

Friday September 6, 2013

Traveled down to John Martin Reservoir State Park and setup in the Point Campground area. I like this place and it was dark, flat and no trees.

Clear and brisk wind from southeast. Using van to block wind. Worked well all night. Going to find Bright Nebula tonight before several set for season. Sunset at 7:11 PM. Clouds I left in Denver are very low along west to northern horizon.

Venus	7:41 PM	Nice greater than half gibbous phase. Aligned Telrad and finder scope on it.
LBN22 LBN 20	8:21 PM	Both nebulas fade away slowly. There is one brighter star in the center of each glow. 20 is larger and has the brightest star and there is more of the halo glow to the right of star. 22 is round. 15mm eyepiece gives the best view while in 24mm, the nebula really is not there. UHC makes the lopsided glow of 20 disappear. Seen with direct vision. Lynd brightness 3.
LBN 19 LBN 11 LBN 10	8:30 PM	All 3 dims out slowly to nothing from star. There is 1 star at the center of each. They are all round. 15mm with UHC filter gives the best view of these. Each is centered on the star that lights up huge roundish glow. 11 is the largest glow. 19 is the same but a bit smaller glow. 10 smallest yet large and easy to see. Can see that these nebulas have hints of going on a bit more but star doesn't light it up like near the star. Lynd brightness 3.
LBN 8	8:37 PM	No sharp boundary. Very dim and uniformly lit. UHC makes it easier to see something there in the 15mm eyepiece. Seen with averted vision. A very dim, ghostly, long, oval glow. Barely there. Lynd brightness 5.
8:40 PM. Wind slight from south. Sky good. Transparency OK.		
LBN 1122	8:47 PM	Very diffused. 8-10 stars form a chevron shape pointing to lower left of FOV on top of a hint of a glow. Easier to see glow with 15mm eyepiece and UHC filter and averted vision. Under and in between these 8-10 stars I see this <u>very</u> faint glow of more nebula. My eye is drawn to the glow especially with UHC filter and averted vision. 15mm shows it the best. Lynd brightness 6.

NGC 6729	9:02 PM	A nice, large, round glow, uniformly lit in the center and fainter at the edge where you see a dimmer glow. UHC shows more extended glow around brighter center. 10mm showed it nice as well as 15mm. Seen with direct vision. Lynd brightness 2.
IC 4812	9:02 PM	This nebula stands out under the stars. There are 2 vertical stars on top of the glow. Brightest near the stars and dims quickly. The glow makes a figure 8 shape, with the upper star brighter than lower and lighting up a bit more nebula. UHC shows it more extended by just a little bit more. Seen with direct vision. 10mm shows it better than 15mm eyepiece although both are a nice view of it. Lynd brightness 4.
NGC 6334	9:11 PM	Nice. There are 8-10 stars embedded in glow with the brightest glow around stars. Only see it with UHC and 24mm eyepiece with direct vision. The nebula is barely brighter under the stars and in between see faint glow of "fingers" connecting stars. Can see why this is called the Cat's Paw. Sort of looks like it. Lynd brightness 3 near stars and 5 in between.
Sh 2-8	9:17 PM	A very dim, curved, dog leg long and narrow glow that has 3 stars evenly spaced on glow. 15mm shows it best without UHC filter with direct vision. Bottom part has a hare brighter glow in center while rest if uniformly lit. It is long and slender. Lynd brightness 3.
NGC 6357	9:21 PM	A very diffused nebula. Has 3 stars with brightest glows near stars. It is in 2 parts. Left part is a long slender glow, with brighter part near 2 stars and very faint slender tails above and below. Then to right around a single star is a circular glow. UHC show it nice with 15mm and direct vision for the brighter parts and adverted vision for the very dim tails. Lynd brightness for brighter part is 3 and tails is 5.
Sh 2-12	9:29 PM	Very faint and diffused. 1 bright and 4 dim stars to left of bright star and 3 dim stars to right. It is long and slender. 15mm gives best view and UHC maybe gives a hint of an extended glow. Lynd brightness 5.

Sh 2-13 9:34 PM A brighter field star and 8 fainter stars to upper right form a tear drop glow. Extremely faint and only see it with UHC filter, 15mm eyepiece and averted vision. Lynd brightness 4.

Sky and transparency are very good right now. Outstanding views of these nebulas.

M8 9:45 PM It is diffused. Responds well to UHC. 15mm shows it nicely and 24mm makes it smaller. It is a nice, large, roundish glow and flat on left hand side. Has brighter area near flat side and dims slowly from there. Has an open cluster below it. Lynd brightness 1.

NGC 6526 9:45 PM 5-6 stars on glow and 2 faint stars on brightest area. Triangular in shape. Responds well to UHC and 15mm eyepiece. Next to M8. Has a brighter area and rest uniformly lit and dims slowly to nothing. Lynd brightness 2.

LBN 26 9:45 PM There are 6-10 stars on this dim, uniformly lit glow that is long and narrow. Next to M8 to its lower left. Responds well to UHC and seen best in 15mm. No sharp edge. Lynd brightness 3.

LBN 52 9:54 PM Pretty diffused and mottled. Not a uniform brightness. Larger and roundish. Seen with direct vision in a star rich field. Responds well to UHC which shows it nicely and best seen in 15mm. Lynd brightness 3.

M20 10:04 PM 1 brighter and 6-8 dimmer stars on this round glow. Bisected by dust lanes and it is uneven in brightness. One of my favorites. 15mm shows it nicely with UHC filter. Seen with direct vision. Lynd brightness 2.

Sh 2-30 10:06 PM 6 or so stars on the uniformly lit, dim, oval to round glow. Seen only with UHC and 15mm eyepiece using averted vision. In between M8 and M20 is this tight grouping of 6 faint stars that seem to light up a glow underneath them. Lynd brightness 4.

IC 4701 10:10 PM An extremely dim, diffused, uniformly lit glow. Has maybe 4-5 very faint stars on glow. It is round, disappears with UHC filter and best seen with 15mm eyepiece and averted vision. Lynd brightness 6.

M17	10:11 PM	Nice. Neck and bottom of swan are sharp edged while upper right is diffused. Brighter part outlines the swan and dims out to upper right in diffused area. It is large and in the shape of a swimming swan. UHC makes neck area less visible. 15mm shows it nicely. Seen with direct vision. Lynd brightness 1.
Sh 2-46	10:20 PM	Very faint halo glow around 3 brighter field stars that sit on top of nebula. Stars have a small halo around them revealing the presence of the nebula. Disappears with UHC filter. 15mm shows it the best. Seen with direct vision. Lynd brightness 4.
M16	10:27 PM	Bright, uniformly lit center and diffused edge. There is an open cluster of 20+ stars on glow. It is large and roundish. 15mm shows it nicely and best view with UHC filter. Lynd brightness 1.
LBN 68	10:31 PM	Lots of stars on this very dim, large oval glow to the left of M16 in a star rich field. Better view with UHC and 15 mm eyepiece, using averted vision. Lynd brightness 4.
LBN 70	10:36 PM	A few stars on this thin, dog legged to this left, uniformly lit glow. It is barely there. Lynd brightness 4.
IC 1287	10:44 PM	A double star, close together with lower star much brighter than upper. Bright near stars and dims quickly. UHC doesn't show it well. Best seen with direct vision using the 15mm eyepiece although the 10mm shows it nicely also. Lynd brightness 2.
Sh 2-82	11:04 PM	Around a bright field stars is this lopsided to the top, round halo glow of the nebula. 15mm and UHC shows it nicely with direct vision. Dims slowly from star. Lynd brightness 2.
NGC 6820	11:11 PM	An open cluster of 8-10 dim stars of 3 magnitudes sits on top of this long, vertical oval glow. Glow is very dim and uniformly lit. UHC and 15mm shows it nicely. Lynd brightness 4.
LBN 113	11:15 PM	With 15mm and UHC, the large, round, extended halo glow is around the left wing tip of Aquila. Bright near star and dims slowly to edge. Looks the same with and without the UHC and seen with direct vision. Lynd brightness 2.

11:18 PM. 73 degrees. Light wind persists from south. Keeps the bugs off for I forgot repellent. Seeing and Transparency very good. Sky dark in FOV giving nice contrast to Bright Nebulas I am looking at.

- LBN 153 11:33 PM A small halo glow around a brighter field star. There are other stars in FOV that don't have this halo glow. UHC and 15mm shows it nicely with direct vision. It is small and round. UHC makes it look like a planetary nebula. Lynd brightness 4.
- IC 4954 11:41 PM 15mm – Underneath this slender arrow head of 5 stars is this faint glow. Don't see it with UHC. Lynd brightness 4.
- LBN 185 11:49 AM Sweeping this area with 15mm and UHC filter, your eye is drawn to this very dim oval glow underneath 20+ stars of an open cluster in an oval grouping. Sky outside this glow is jet black so something is there. It is uniformly lit and very dim. Can see it with direct and adverted vision. Lynd brightness 6.
- LBN 239 11:55 PM Around 6 brighter stars and 1 dimmer star is a small halo glow. Then inside 4 with 5th dimmer star, can tell there is a very faint glow there also. Seen with 15mm without UHC filter. UHC shows it but not as good as without it. Lynd brightness 4.

Sky a bit less now. Seeing and transparency are good. Wind completely gone. Bugs swarming.

- LBN 331 12:02 AM Around 3 field stars, middle one a double with a very faint companion at 9:30 o'clock split with help of UHC, are small, round halo glows easily seen with and without UHC filter in 15mm eyepiece. Used direct vision to see this. Lynd brightness 3.
- NGC 6888 12:11 AM Around the 3 brighter and 1 fainter field stars is a nice, dim, small halo glow seen with 15mm eyepiece and UHC filter. The stars form a large arc. The glow is brightest around the stars then in between them you can trace out a hint of an arc of connecting glow. This is very faint. The brighter areas is Lynd brightness 3 and the connecting arc glow is 5.
- DBW 111 12:22 AM Around 4 brighter field stars is this small bit of round halo glow. Only seen with UHC filter and 15mm eyepiece using direct vision. Lynd brightness 3.

IC 1318	12:30 AM	Around the brightest stars in a star rich field is an easy to see, small round halo glows. Then in between them and under many stars is this easy to see, <u>very</u> faint, mottled glow. The mottling might be due to other stars lighting it up more nebula. Mottling is very subtle. It is a large, fat oval glow. Best seen with 15mm and UHC filter. Can see it without the filter, but barely. Brighter area Lynd brightness 3 and fainter is 5.
LBN 270	12:46 AM	Around 4 brighter stars is a small, dim halo glow. Around lower 3 stars it is a continuous oval glow. Seen with 15mm, UHC filter and direct vision. It has a bit of a dog leg to right in glow. Lynd brightness 4.
NGC 6960	12:53 AM	Nice. With OIII see nebula arc left and right of 52 Cygni. With 15mm eyepiece, it is 2-3 FOVs long. It is a narrow arc of glowing gas. Lynd brightness 2.
NGC 6992/95	12:56 AM	Nice. 6992 is an uneven glow, twisting and wide. 6995 has streamers coming off it. Best seen with OIII and UHC shows it a bit as well as naked eye. There are a few stars mixed in amongst the nebulosity. Easy to see with direct vision. 15mm eyepiece the best. Lynd brightness 2.
NGC 7000	1:03 AM	Tons of stars on glow for it is in a star rich field. Sort of see it without UHC but UHC shows it good. 24mm better eyepiece for this one. Looks like North America with Mexico and the Gulf well defined and Canada diffused. Several FOVs in size. Pan scope around to see it all. Lynd brightness 3.
IC 5070	1:10 AM	Had a definite boundary. See lots of nebula glow by panning scope around area. Nice. Pretty uniformly lit. Large, circular shape. Seen best with 24mm for it is several FOVs in size. Lynd brightness 3.
IC 5067	1:13 AM	A brighter field star has a large halo glow around it. With UHC, 15mm eyepiece and averted vision, can see halo glow extends quite a bit away from star. Round and small in size. Seen with direct vision. Lynd brightness 3.

- IC 5068 1:18 AM Around 3 brighter field stars is this tiny halo glow. Not very much there, yet it is easy to see. They are round, small and dim. Better seen without UHC filter and in 15mm eyepiece. Lynd brightness 4.
- NGC 7023 1:26 AM Nice. This this is large, over a FOV in size with the 15mm eyepiece. It is round, dim and void of stars except the bright one with large, easy to see halo glow. Move FOV around to see where nebula glow stops and dark background starts. See it with direct vision. UHC shows all of halo glow where without only shows glow around the star. Lynd brightness 3.
- IC 1396 1:33 AM A bright field star has a large halo glow around it. I tried to see more nebulosity (Elephant Trunk) but did not. Only the halo glow around bright star is all I can see. Only see it with UHC filter. Both 15mm and 24 mm eyepieces show it nicely. See with direct vision. Lynd brightness 2.

1:48 AM. Packing it in. Mosquitos too much without any repellent on. Wind died down completely about midnight and but bugs zeroed in on me from that point on. Had a fox get near me but then heard him move off after I yelled at him to go away.

Saw M13, M57, Alberio, M31, M110, M32, M33 and M27 throughout the night. All very nice.

I was planning on staying one more night but tomorrow night was predicted to have a strong wind through midnight and the van did a good job blocking some of the wind but not all of it.