

## Saturday October 26, 2013

Traveled the Dark Sky Site at Deer Trail, CO. Setup by 4:20 PM. Clear, calm, 70 degrees. Used my 8" f/6 Newtonian tonight with the Sky Commander.

Light wind from NW. Mosquitos thick and forgot bug spray again.

Venus            6:21 PM        ½ phase. Nice.

M31             7:11 PM        Nice. Cool in UHC filter.

7:11 PM. 33 degrees. Sky Good. Transparency Good.

NGC 896        7:15 PM        15mm - A hint of a glow. Fat oval shape with one star in the center. Very faint. Can only see it with UHC. 15mm eyepiece gives best view. With adverted vision, move FOV up and down and my eye follows it nicely. Lynd Brightness 6.



IC 1805         7:23 PM        15mm - Under 20+ stars of 4 magnitudes is this persistent glow. Brighter near stars (Lund 5) and very dim in between (Lynd 6). This is an open cluster that is very loose yet 9 stars form a human heart shape in center. See it with direct vision. Only see it with UHC and 15 mm eyepiece.

IC 1795         7:23 PM        15mm - Above and to right and near IC 1805 is 2 lines of 10 very faint stars, 5 stars in each line. Under these stars is a very faint glow with a hint of it in between them. Only see it with UHC and 15mm gives best view. It is boxy in shape, because the 10 stars form a rectangle. Lynd brightness 6.

IC 1848         7:34 PM        15mm - This is cool. Fills FOV of 15mm which shows it the best. The area has this mottled glow, brighter nears stars and dim in between. Around 5 center stars is a void of stars, with a hint of an extremely faint glow there. 24mm shows glows around brighter sets of stars nicely. Doesn't show the in between and void as well as 15 did. There are 30+ stars in this area. There is a linear set of 20-25 stars on right hand side. Best seen without any filter. Very diffused. Lynd brightness 5 near stars and 6 in between.

7:40 PM. 32 degrees. Sky Good. Transparency Good.

vdB 14 7:47 PM 15mm - Around a brighter blue white star is this halo glow. With UHC see halo glow extends a bit more than what is seen without filter. Halo extends to a 2nd star (at 7 o'clock from brighter one and near) and a little second halo around this stars near the brighter one. Seen with direct vision. Lynd brightness 4.

vdB 15 7:53 PM 15mm - Around a brighter field star is this faint, round glow. Very dim. UHC doesn't show it any better. Brightest near star and dims quickly. No other stars near it have a halo glow. Lynd brightness 4.

NGC 1491 8:49 PM 15mm - With a brighter field star to upper left is this very faint triangular, small glow. Most of nebula to lower left of star. Brightest in center of nebula and dims quickly. Very faint. UHC shows it the same. Seen with adverted vision. Lynd brightness 5.



8:52 PM. 32 degrees. Sky OK. Transparency OK.

NGC 1624 8:58 PM 10mm - Underneath 3 or 4 stars is this dim glow. Round. Small. Easily seen without UHC and UHC shows it the same. 15mm shows it nicely but 10mm shows it better, yet dimmer. Lynd brightness 6.

NGC 1333 9:05 PM 15mm - Very diffused. Around 4 brighter field stars is a hint of a small, halo glow. Then in between these 4 is a hint of a contrasting glow of the nebula there. Best seen with 15mm and without UHC. It is a long fat oval of uneven brightness. Seen with direct vision. Lynd brightness 6.



Sh 2-210 9:22 PM 15mm - Underneath 2 brighter field stars is a long oval glow, brighter near stars, yet very faint overall. Then a 3rd star by itself has a glow underneath it also. My eye was drawn to it even though it was faint. Disappears with UHC filter. Best seen in 15mm with adverted vision. Lynd brightness 5.



GK-N1901 9:31 PM 10mm - Around a star with OIII see a tiny halo glow. Only see it with OIII. With 10mm eyepiece gives best view. Lynd brightness 4.

DG 19            9:39 PM            15mm - Around a field star is this larger, round glow. Brightest near star and rest of nebula glow dim and uniformly lit. Very faint, yet easy to see with UHC filter. 15mm gives best view with direct vision. Lynd brightness 5.

9:42 PM. 30 degrees. Sky OK. Transparency OK. Lots of dew forming.

IC 348            9:44 PM            15mm - Around a brighter field star is a larger halo glow. Shows better without UHC. Then above and to left and near are 8 dimmer stars in a ring with small halos around each. These best seen with UHC. 15mm gives best view with direct vision. Lynd brightness 3.

NGC 1579        9:51 PM            15mm - With 15mm, fills center of FOV with a uniformly lit round, larger, very faint glow. UHC shows it the same. Seen with direct vision. Lynd brightness 6.

NGC 1499        10:01 PM           26mm - This thing is faint. With 24mm, its about 2 FOVs long and thin. See it contrast with background and only see it with H-Beta filter. Nice. Seen with adverted vision. Many stars over glow. It is long and slender. Lynd brightness 6.

vdB 20            10:10 PM           15mm - Around a brighter star is a larger halo glow. UHC shows it nicely. Seen with direct vision. Brightest near star and dims slowly. Lynd brightness 2.

vdB 21            10:10 PM           15mm - Around a brighter star is a larger halo glow. UHC shows it nicely. Seen with direct vision. Brightest near star and dims slowly. Lynd brightness 2.

vdB 22            10:10 PM           15mm - Around a brighter star is a larger halo glow. UHC shows it nicely. Seen with direct vision. Brightest near star and dims slowly. Lynd brightness 2.

vdB 23            10:12 PM           15mm - Around a very bright star is a large halo glow. Brightest near star and dims slowly. UHC shows it nicely. Seen with direct vision. Then below it are 3 stars with a blow under them. Lynd brightness 2.

10:19 PM. 29 degrees. Sky Good. Transparency Good.

IC 353 10:22 PM 15mm - Around 2 brighter and 1 dimmer field stars is this thin, tubular glow of stars lighting it up. Brightest near stars and dimmer in between. Easy to see with and without UHC. Seen with direct vision. Lynd brightness 4.



IC 360 10:27 PM 15mm - Nice. A larger area, a few 15mm FOVs in size, is this wispy, faint, uneven glow. In center is a brighter field stars with a nice halo glow around it. Brightest near star and dims quickly. Can see this halo with and without UHC filter yet UHC shows it a bit better. Seen with adverted vision. Basically roundish. Lynd brightness 4 near stars and 6 in between.

G156.2+05.7 10:50 PM 15mm - Pan around 2 FOVs and see this blotchy contrast to background sky. Only seen with OIII and 15mm. Lots of stars in this area. Lynd brightness 6.

G160.9+02.6 10:54 PM 15mm - Panned 15mm around 2-3 FOVs in diameter and see this contrast to area with OIII. Very subtle, but nice. Some areas long strands while others are mottled. Roundish and very large in size. Seen with direct vision. Lots of stars in this area. Lynd brightness 6.

10:57 PM. Frost on filter case. 30 degrees. Sky OK. Transparency OK.

NGC 1554-55 10:57 PM 15mm - Around a bright field star is a nice halo glow. To left are 4 stars with dimmer, thin wispy glow under them. To right is one star and a thin wispy glow is here also. Move 15mm FOV up and down and thin glow follows movement. Seen with direct vision. Lynd brightness 4.







NGC 1953 11:00 PM 15mm - Nice. Larger, oval, uniformly lit glow. UHC and 15mm shows it nicely. Almost disappears with OIII filter. No stars seen on glow. Lynd brightness 3.

IC 405 11:04 PM 15mm - With 15mm and UHC see a hint of glow around 8 stars forming a box C. Top center star brightest and has a dim halo glow around it. 2 bottom stars have hare brighter glow. Around rest a hint of a ghostly glow. Seen with direct vision. Lynd brightness 4.



IC 425 11:10 PM 15mm - Around a dimmer field stars is this very dim, small, round, halo glow. Best seen with UHC and 15mm eyepiece. Seen with direct vision. Lynd brightness 6.

Sh 2-218	11:14 PM	15mm - Pan 2 15mm FOVs with UHC around this area and see a blotchiness to the area that is not seen elsewhere. <u>Very faint and very subtle</u> . Lots of stars seen on glow. Seen with direct vision. Lynd brightness 6.
IC 2118	11:18 PM	15mm - With UHC, pan 15mm about 2 FOVs to see this faint, long, thinner glow. Has definite boundaries with rest of area. Lots of stars on glow. Seen with direct vision. Lynd brightness 5.
NGC 1931	11:24 PM	15mm - A small glow around a star. Nice. Easy to see. Seems uniformly lit. Same view with and without UHC. I like it the best without UHC and in 15mm eyepiece. Seen with direct vision. Lynd brightness 3.
NGC 1977	11:30 PM	15mm - Around 5 brighter stars is this nice, bright glow. Same with and without UHC. Brightest near stars. Seen with direct vision. Lynd brightness 3.
		
NGC 1973	11:30 PM	15mm - Around 3 brighter stars is this nice, bright glow. Same with and without UHC. Brightest near stars. Seen with direct vision. Lynd brightness 3.
		
NGC 1975	11:30 PM	15mm - Around 6 dimmer stars is this dimmer glow. Same with and without UHC. Brightest near stars. Seen with direct vision. Lynd brightness 3.
		
M42	11:32 PM	15mm - Nice. Few stars on glow. Large and wispy. Seen with and without UHC and 15mm shows it nicely. Trapezium in center. Direct Vision. Lynd brightness 1.
M43	11:32 PM	15mm - A lopsided glow with a brighter star on right hand side. Better without UHC. Best with 15mm. Direct vision. Lynd brightness 2.
		
NGC 1999	11:398 PM	15mm - Around a brighter star is this round halo glow, brighter near star that dims slowly. Seen with direct vision. Best view without UHC and with 15mm eyepiece. Lynd brightness 3.
NGC 1990	11:41 PM	15mm - Around middle belt star of Orion is this large, round halo glow that dims slowly from star. Nice. Seen with direct vision. Better with UHC and 15mm eyepiece. Lynd brightness 2.

NGC 2023-24 11:44 PM      15mm - A nice, dim, diffused, fan shaped glow with dust lines on glow. Dim overall. Seen with direct vision. Only see it with UHC and best view is with 15mm eyepiece. Lynd brightness 4.

11:45 PM. 32 degrees. Nice night. Packing it in.

Bruce, Sam (with 22" f/3 scope), Mike and Darrell here tonight. Predicted higher wind didn't happen. Wind screen seemed to help make it warmer with the little breeze we had. Burn off stack with flame not a problem at oil pumping site to SE. Just a small, orange glow over there.

Completed the Advanced Bright Nebula Certificate tonight.