

January 10, 2002. Went to LTO to host a group. At 9:20 PM, the group just left..

9:21 PM      *Theta 1 Orionis* Magnitude 6.7, 7.9, 5.1, 6.7 with 8.8", 13", 21.5" separation

Drawing #81

This is the trapezium in the Orion Nebula. Nebula looks fabulous. The bottom left is the brightest of the 4 stars. The top left and the bottom right are of equal brightness. The top right is a bit dimmer.

9:24 PM      *Lambda Orionis* Magnitude 3.6, 5.5 with separation 4.4"

Drawing #82

Two very close stars. Can't breathe on the EP or it fogs up. Star on left is 2x as bright as star on the right. 2 blue-white stars.

9:28 PM      *Iota Orionis* Magnitude 2.8, 6.9 with separation 11.3"

Drawing #83

Two blue white stars. Very neat. The one on the top is very bright compared to the one on the bottom. Hard to see at first, but now its easy to see. A bit of separation btw them.

9:30 PM      *Theata 2 Orionis* Magnitude 5.2, 6.5 with separation 52"

Drawing #84

Two blue stars, evenly spaced. Just down below the trapezium and the glow of the Orion Nebula. Star on right is just a bit dimmer than star on left. Trapezium was in the same FOV.

9:34 PM      *Sigma Orionis* Magnitude 4.0, 7.5, 6.5 with separation 12.9", 43"

Drawing #85

I first thought Zeta Orionis was in same FOV, so I drew both triangles. The top triangle has 3 stars about the same brightness. All blue-white stars.

9:38 PM      *Zeta Orionis* Magnitude 1.9, 4.0, 9.9 with separation 2.4". 58"

Drawing #86

I was wrong in the above assumption. The telescope slewed to a new position. Now have a different set of stars. Bright member, faint member and one in-between. Bright member is dominates the middle one and the faint one is off by itself. Use the OIII filter and can easily see the middle member. The bright one is blue-green and the middle is red in color thru this filter. The middle is at 10 o'clock right near the bright star.

9:45 PM      *Rigel*

Drawing #100

Using the OIII filter, get the bright member as blue-green and the faint one is red in colors. Companion is very close and is at a 9 o'clock position to bright member. Very small compared to the brighter member.

Seeing is fairly good. Sky is clear. Wind is calm.

9:49PM *Gamma Leporis* Magnitude 3.7, 6.3 with separation 96"

Drawing #87

Easy one to see. Widely separated. Off white, maybe yellow in color. Brighter is about 2x as bright as dimmer one. Brighter is on the left. Dimmer may be redder in color than brighter. Definitely not blue-white in color.

9:50 PM *Theta Aurigae* Magnitude 2.6, 7.1 with separation 3.6"

Drawing #88

Two little blue-white stars very close together. Used OIII filter. The one on the left is a bit dimmer and is red in color. The one on the right is blue-green in color. Filter knocks glare down and makes them easy to see.

9:55 PM *Epsilon Monocerotis* Magnitude 4.5, 6.5 with separation 13.4"

Drawing #89

Off-white, maybe yellow in color. One on left is more than 2x as bright. Easy to see with good separation between them.

9:58 PM *Beta Monocerotis* Magnitude 4.7, 5.2 with separation 7.3"

Drawing #90

Two evenly bright stars. Blue-white.

10:00 PM *12 Lyncis* Magnitude 5.4, 7.3 with separation 8.7"

Drawing #91

Two stars that are blue-white in color. One on right is a lot brighter. Easy to see.

10:03 PM *Epsilon Canis Majoris* Magnitude 1.5, 7.4 with separation 7.5"

Drawing #92

Another bright mismatched pair. Used OIII filter. Bottom star is the bright one and blue-green in color. Dimmer is right on top of brighter one and is red in the filter. Sits at 11 o'clock. Seeing steadies and it comes right in. Without filter, bright one is boiling and covers up the dim one.

10:09 PM *Delta Geminorum* Magnitude 3.5, 8.2 with separation 6.8"

Drawing #93

Hard to see and keep my eye off EP. Bottom one on right is very bright. Close, but not too close is the fainter member on the top.

Jupiter has lots of band on it tonight. Have never seen this many bands on Jupiter before. See two big bands. Band on left is then split into two. OIII filter shows the bands easily.

Snowed a lot yesterday.

10:14 PM *19 Lyncis* Magnitudes 5.6, 6.5 with separation 14.8"

Drawing #94

There are three stars that could be part of the double. But it's the two stars on the left that are the double. The one on the bottom is a bit brighter than the star on the top.

10:16 PM *Alpha Geminorum* Magnitude 1.9, 2.9 with separation 2.2"

Drawing #95

I think this is Castor. Two, evenly bright, blue-white stars. Real close together and very shiney. OIII filter they are both blue-green in color and the one on the bottom is a bit dimmer than the one on the top.

10:20 PM *Kappa Puppis* Magnitude 4.5, 4.7 with separation 9.9"

Drawing #96

2 evenly bright white stars.

Saturn is gorgeous. See Cassini's division, bands on the planet and several points of light all around it.

Can't do N Hydra tonight for it is still below the horizon. Telescope slewed there without hitting limits but was pointing into the floor.

10:28 PM *Zeta Cancri* Magnitude 5.6, 6.0 with separation 5.9"

Drawing #97

2 close, easy to separate stars. The one on the bottom is just a hair brighter. Definitely white stars. Not blue-white.

10:29 PM *Iota Cancri* Magnitude 4.2, 6.6 with separation 30"

Drawing #98

Well separated. Star on right is reddish-orange and maybe 2x as bright as blue-white star on the left.