## Friday, June 23, 2006

Gary Garzone, Marty Curin, Vern Raben, Barbara and myself and others went to this place, half way between Cheyenne and Laramie, WY called Camp Happy Jack. It was a nice place to observe, quite different from Pawnee. It had fir trees, aspen trees and was a bit mountainous, with a nice open field to observe in.

At sunset, a moderate wind from the west and 77 degrees. As twilight dwindled, the wind died down to light and still from the west.

I used the 19mm eyepiece all night to view these galaxies.

10:21 PM NGC 5462

19mm - Its at the lower right of M101. Its well away from the nucleus glow, but on the extended halo glow. It's a brighter glow on the a very dim halo. It's a bit brighter than NGC 5447. 5462 is more linear than 5447, which is more oval.

22mm - I looked at this again later this night in a 30 inch telescope and it stood right out and was very easy to see. This view looked like the photograph I got off the internet to help me identify this feature in M101.

NGC 5447

19mm - This is another hare brighter glow to the upper left of the nucleus glow of M101. w/AV, see this glow easily. Nice. 5462 is more linear than 5447, which is more oval. Very easy to see now that I know what I'm to looking for.

22mm - I looked at this again later this night in a 30 inch telescope and it stood right out and was very easy to see. This view looked like the photograph I got off the internet to help me identify this feature in M101.

10:38 PM NGC 5485

19mm - Nice. Larger, slight oval shaped galaxy has brighter tiny core with large amount of what is seen is halo, which is easy to see. Dim field star at lower left and near to galaxy.

Sky is steady. It's a bit soft because stars are not pinpoints yet, but its getting better. 60 degrees.

10:50 PM NGC 5443 19mm – Dim, linear or cigar shaped, uniformly lit galaxy. No other details seen.

11:01 PM NGC 5585 19mm – Very dim, large, round or slightly oval, glow with larger and hare brighter nucleus.

11:06 PM	NGC 5430	19mm – An elongated oval shape. Flattened. Has brighter nucleus glow on halo. Central glow is mottled.
11:14 PM	NGC 5204	19mm – Larger, oval glow. Easy to see. Pretty uniformly lit of what is seen.
Stars are steady and pinpoints now. Seeing is OK. 55 degrees.		
11:31 PM	NGC 5687	19mm - A linear glow with a much brighter, tiny stellar core. Bright field star to lower left of galaxy.
11:39 PM	NGC 5879	19mm – A longer, cigar shaped galaxy that is easy to see. Larger, brighter nucleus and a bit of halo around it that dims quickly into nothing.
11:53 PM	NGC 5480 NGC 5481	19mm – Both in FOV and right next and near to each other. Both are round glows with tiny stellar nucleuses. 5481 on right is a bit larger than 5480. Both are approx the same appearance.
12:00 AM	NGC 5520	19mm – A dim, round glow with brighter, tiny nucleus see on center of glow.
Seeing is Fair. Sky is steady. 52 degrees. Wind from north. Lightening seen on NE horizon.		
12:04 AM	NGC 5602	19mm – Small, round dim glow with hint of a brighter nucleus seen.
12:07 AM	NGC 5660	19mm - A very dim, round, uniformly lit smudge of light.
12:28 AM	NGC 5448	19mm – Its dim, yet easy to see. A nice edge on. Its long. Central bulge is easy to see. Arms disappear quickly on both ends. Nice.
12:37 AM	NGC 5899	$19 \mathrm{mm} - \mathrm{A}$ nice, tilted oval. Pretty dim, yet can see brighter core and lots of halo.
12:43 AM	NGC 5533	19mm – Small, round, dim glow with much brighter nucleus glow on center of circle, which brightens more to a tiny stellar core.
12:48 AM	NGC 5590	19mm – Very dim, round glow with bit brighter, larger nucleus seen in center of glow.

12:57 AM NGC 5529 19mm – A larger, round galaxy with brighter nucleus area seen w/ AV. Maybe nucleus brightens to a tiny stellar

point, but not sure.

Seeing is still fair. Nice breeze from North now, but scope is steady. Amazing.

1:19 AM NGC 5440 19mm - All 3 can barely fit in same FOV. 5440 is very

NGC 5444 dim, round or maybe elongated oval. Pretty uniformly lit. NGC 5445 5444 is to the left of 5445. 5444 is a dim, round glow with

5444 is to the left of 5445. 5444 is a dim, round glow with brighter nucleus and is larger than 5445, which is dimmer and a smaller version of 5444. I read the description of these objects and noted a dim field star next to nucleus, when I went back to the scope to see this, the galaxies were gone. I looked up and the sky had completely clouded over

in just a few seconds.

Saw M101 in Gary's 30 inch and NGC 5462 and NGC 5447 were bright knots in the extended arms away from the nucleus glow. His view looked like the photograph I printed off the internet to help me identify these features in M101. Both were well away from the nucleus glow and on the halo glow and it the same relative locations to the nucleus as they were in my scope. Also saw M51 in Gary's scope and its was the best I have ever seen it in his scope, despite the sky conditions.