

NGC Object	Date	Time	Seeing	Trans.	Location	Equipment	Description
16	8/19/2012	1:12	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Nice. Bright. Small oval glow. Larger, brighter core seen on bright halo glow.
95	8/19/2012	2:58	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small tilted oval with hare brighter central region and much brighter, small core on this. Bit of halo surrounding core.
128	12/28/2008	18:41	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Very small round dim halo glow with tiny star like nucleus seen in center.
210	8/19/2012	3:37	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small oval dim glow with brighter stellar core. Dim overall though.
245	8/19/2012	3:39	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, <u>extremely</u> faint oval ghostly, uniformly lit glow.
255	8/19/2012	3:47	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, roundish, <u>extremely</u> faint smudge of light. Uniformly lit.
266	8/19/2012	1:37	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small tilted oval with larger, textured core and easy to see halo around it.
268	8/19/2012	3:55	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An extremely faint, larger oval, uniformly lit smudge of light.
274	8/19/2012	3:57	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A <u>very</u> faint, longer, thin oval. Uniformly lit. Has bright field star on upper end of glow.
450	8/19/2012	3:51	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger oval, <u>extremely</u> faint, uniformly lit ghostly smudge of light.
470	8/19/2012	3:13	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A large, round to oval shaped, uniformly lit dim glow.
474	8/19/2012	3:13	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small oval. <u>Very</u> dim. Has a hare brighter core area.
520	8/19/2012	3:15	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, fat thin cigar shaped oval. Uniformly lit. Dim. Goes from 6:30 – 00:30 o'clock in FOV.
533	8/19/2012	3:49	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small oval, <u>very</u> faint glow with hare brighter, small core.
536	1/22/2012	21:50	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	263x - Brightest of Hickson Group 10 is a small, linear, uniformly lit glow. 2 bright field stars below glow and near it.
600	8/19/2012	3:36	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small round glow with larger brighter core.

670	8/19/2012	3:22	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small, thin edge on. Dim. Central core area brighter than thin, <u>very</u> faint tapered arms.
673	8/19/2012	2:39	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An <u>extremely</u> faint larger oval ghostly glow.
676	8/19/2012	3:10	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A <u>bright</u> large core that has a tiny bit of <u>very</u> dim halo around it and extending 8 – 2 o'clock. Looked like a star except for the arms. A thin tilted oval and this bright core maybe.
678	8/19/2012	2:31	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Is oval, pretty uniformly lit with hare brighter, small core.
680	8/19/2012	2:31	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A round, dim glow with tiny stellar core in center.
681	8/19/2012	3:45	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A tiny, oval, <u>extremely</u> dim, uniformly lit glow.
697	8/19/2012	2:35	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Nice! Larger, longer fat edge on. Uniformly lit with hint of hare brighter core. <u>Extremely</u> dim overall.
701	12/27/2013	19:18	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A longer, larger fat oval. Very faint. Uniformly lit glow.
705	8/10/2010	1:09	Great	Great	Keota, CO. Moderately dark skies.	12.5" f/8 Newtonian	134x - A faint small round glow seen. No details. Just a glow.
748	12/27/2013	18:56	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A small, oval, <u>extremely</u> faint, uniformly lit smudge of light.
750	8/19/2012	2:08	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small, thin oval glow. w/AV see a texture on uniformly lit glow.
777	8/19/2012	2:07	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small faint roundish glow with brighter tiny core seen in center.
788	1/5/2013	19:30	Good	OK	Berthoud, CO	24" f/4 Newtonian	187x – A small, oval, uniformly lit, very faint glow.
864	1/5/2013	19:43	Good	OK	Berthoud, CO	24" f/4 Newtonian	187x – A very faint, fat oval, uniformly lit glow.
877	8/19/2012	2:20	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, <u>very</u> faint fat oval. Uniformly lit. Has faint field star just outside glow on lower left side. Had to put a bright field star out of FOV to see this.
895	8/19/2012	3:41	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, uniformly lit, oval to circular shaped, <u>extremely</u> faint smudge of light.
922	9/30/2011	1:18	Good	Good	Okie-Tex Star Party-Kenton, OK-Moderately Dark Sky.	12.5" f/8 Newtonian	15mm – A <u>very</u> faint tilted oval glow with hare brighter larger core seen on halo glow.

941	8/19/2012	3:44	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, uniformly lit, oval to circular shaped, extremely faint smudge of light.
945	8/19/2012	2:05	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An <u>extremely</u> faint larger oval, uniformly lit glow.
949	8/19/2012	3:53	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small tilted oval, pretty uniformly lit. w/AV see a texture on glow. <u>Very</u> dim overall.
955	1/5/2013	19:19	Good	OK	Berthoud, CO	24" f/4 Newtonian	187x – A long, slender glow. Faint. Has hare brighter, larger core in center.
958	8/19/2012	3:34	OK	Good	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, thin oval. Long. Uniformly lit.
972	08/02/08	1:46	Good	Good	WUTS 2008, Fox Park, WY	12.5" f/8 Newtonian	134x – Small, oval glow with larger, hare brighter core seen.
1097	10/05/02	1:07	Good	Good	Okie-Tex Star Party-Kenton, OK-Moderately Dark Sky.	12.5" f/8 Newtonian	80x-Small-bright nucleus. Edge on. Nucleus blends into slender halo. 134x-Relatively brighter circular nucleus blends into long, slender arms.
1140	1/5/2013	19:53	Good	OK	Berthoud, CO	24" f/4 Newtonian	187x – A nice tilted oval. Has brighter larger core.
1186	8/19/2012	2:44	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An <u>extremely</u> faint found, uniformly lit glow. Has bright field star offset to left of center on halo glow.
1201	1/21/2014	18:20	OK	OK	Deer Trail, CO. Moderately Dark Skies.	8" f/6 Newtonian	122x – A small, round, dim glow with tiny, much brighter core.
1232	1/16/2009	18:43	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Larger round glow with large, bit brighter nucleus area. Pretty dim overall yet easy to spot in FOV.
1241	12/28/2008	19:49	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Very faint circular uniformly lit glow. Hint of brighter core area seen.
1247	1/20/2012	21:46	Great	Great	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x – A very large, dim, uniformly lit, fat oval glow. No core seen. PA 0 degrees.
1309	12/27/2013	14\9:44	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A medium sized round, dim glow. Uniformly lit. Has <u>extremely</u> faint tiny star like core in center of round halo glow.
1344	1/9/2010	20:04	Great	Great	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Larger, slender oval. W/AV, see tiny relatively brighter star like core. Then just below this, on halo glow is a very faint point of light.
1357	12/27/2013	20:06	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - An <u>extremely</u> faint, round, small, ghostly glow.

1358	12/27/2013	20:08	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - A tiny, round, <u>extremely</u> faint glow with larger, hare brighter core area.
1371	1/21/2012	20:58	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A cigar shaped glow with large brighter core in center of halo glow. Small.
1376	1/16/2009	19:11	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Is right next to NGC 1374 and is circular and very faint. Uniformly lit.
1385	1/21/2012	20:56	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A “lopsided” circular glow. Small. Uniformly lit circular glow. It seems to have a bit of <u>extremely faint</u> halo glow trailing off the lower right of circular glow.
1395	1/21/2012	20:46	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A small, slender linear glow. Goes from 2 – 8 o'clock in FOV. Small. Has brighter core with slight bulge in this area of glow
1415	1/21/2012	20:41	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A nice, dim, oval galaxy with larger, brighter core and bit of dim halo around it.
1417	12/27/2013	20:11	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - An extremely faint, small, thin oval ghostly glow.
1425	1/16/2009	19:01	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – A faint, fat oval glow with central core a linear glow and easy to see on halo glow. Central bar goes from 8 – 2 o'clock.
1426	1/21/2012	20:49	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A circular glow with arms. Has large bright core with lots of detail in core. Seems to have a brighter stellar part then some less bright knots around this one. Core looks different from any others I've ever looked at.
1439	12/27/2013	19:53	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A small, dim oval with small, brighter core.
1440	12/27/2013	20:00	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - A thin, small oval dim glow with larger, brighter core.
1452	12/27/2013	19:59	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - A tiny, oval glow. <u>Very</u> faint with larger, hare brighter core.
1453	12/27/2013	20:14	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - A small, dim oval with larger, much brighter core.
1461	12/27/2013	20:04	Great	Great	Berthoud, CO	24" f/4 Newtonian	234x - A small, thin oval to edge on shaped galaxy. Very dim. Has hare brighter core.
1569	03/05/05	7:20	Fair	Fair	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x-A long, linear cigar with lhs fatter and brighter. The brightest part of the nucleus glow is in this part.

1589	1/20/2012	22:07	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A small round, faint halo glow. Has 2 star like points of light on halo glow. One very dim point of light at center of round glow. Above at 2 o'clock is a brighter field star, well outside of halo glow.
1620	1/20/2012	21:54	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A small, round brighter glow. Large bright core with bit of dim halo around it. Just below and very near a dim field star.
1638	3/5/2013	19:43	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A larger, <u>very</u> dim tilted oval. Appears to have an extended halo a bit away from a small, hare brighter core region in center of glow. Yet dim, easy to see the extent of this halo glow. Nice.
1659	3/5/2013	19:40	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A ghostly glow, <u>extremely</u> faint, almost not there with AV, uniformly lit glow. Small.
1888	12/28/2008	19:22	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Small, dim tilted oval from 1-7 o'clock. Pretty uniformly lit. Most of what can be seen might be the core with maybe a hint of tiny bit of halo glow around it.
2507	1/22/2012	22:22	Great	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	263x - A larger, very dim tilted oval. w/AV can see it has a tiny star like core. Core area seems to have a texture. Most of what is seen is halo glow.
2537	12/28/2008	22:42	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Small, round dim glow. Pretty uniformly lit. Easy to see.
2543	12/27/2013	22:34	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A larger, <u>extremely</u> faint oval, uniformly lit glow.
2545	3/5/2013	20:05	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A nice, brighter, larger, long thin edge on. Has larger, brighter core and longer tapered arms that dim slowly. Goes from 1 - 7 o'clock in FOV. Nice.
2566	1/22/2012	0:50	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A small, faint oval glow in star rich FOV. 2 faint field stars on glow, one of which may be a core.
2608	03/01/08	0:26	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Very faint, elongated fat oval. Uniformly lit. No nucleus seen.
2672	03/01/08	0:32	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Nice. Easy to see. A fat oval halo glow that is almost vertical in FOV. Upper nucleus (2672) is much brighter and round than 2nd nucleus (2673), very near it. See 2nd nucleus w/AV.
2693	12/27/2013	22:37	Good	Good	Berthoud, CO	24" f/4 Newtonian	234x - A brighter, small oval with large, bright core.

2701	5/28/2014	22:13	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, round, <u>very</u> faint, uniformly lit glow. Has brighter field star at edge of glow at 2 o'clock wrt to center of glow.
2718	04/06/13	23:15	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	187x – A small, thin, linear glow. Has stellar core and another field star to left of core on glow.
2763	04/07/13	0:04	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	187x – A larger, longer, fat cigar. <u>Very</u> dim and uniformly lit.
2770	5/28/2014	21:52	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - An <u>extremely faint</u> ghostly hint of a uniformly lit, small oval glow. Thought I saw it a couple of times as it popped in and out. Looked again and saw it.
2798	2/24/2009	19:22	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Small, very dim, oval shaped with bit brighter central area.
2815	04/06/13	23:50	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	134x – A larger, longer, <u>very</u> dim tilted oval with dim, brighter core seen in center of glow.
2820	04/01/05	21:33	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	In Bill Possel's 20 inch scope, 250x. Large but very dim glow. Circular in shape and uniformly lit.
2848	04/07/13	0:01	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A larger, round, <u>very</u> faint, uniformly lit glow
2872	3/12/2010	22:36	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – This is a round, dim glow with a tiny, relatively brighter core seen.
2874	1/23/2012	1:28	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	180x - An edge on, dim, with hare brighter core.
2907	04/06/13	23:56	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A <u>small</u> , dim, oval glow with bright core. Has a field star above core and same brightness as core and on glow.
2935	04/06/13	23:45	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x – A <u>small</u> , oval glow. Has 2 fainter cores on halo glow equidistant on each side of center of glow. Both cores look the same.
2955	5/28/2014	22:02	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, lenticular shaped, uniformly lit, <u>extremely faint</u> glow.
2967	3/25/2014	21:33	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x - A medium sized, round, uniformly lit glow. Dim yet easy to see.

2968	3/27/2014	21:53	Good	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x - A bit smaller, round, dim glow with tiny core.
2983	04/06/13	23:35	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	134x – A small tilted oval. Dim. Has larger brighter core with even brighter area in center of this core.
2997	4/21/2009	21:07	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Nice. Round, large circular face on galaxy. Very dim with bit brighter, larger core seen in center. Dim halo glow not uniformly lit but a bit mottled in appearance. Pretty dim overall. Mottling may be a hint of spiral arms.
2998	5/28/2014	22:08	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - An <u>extremely faint</u> , oval, small, uniformly lit smudge of light.
3003	4/21/2009	21:54	Great	Great	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Long. Slender, dim, uniformly lit glow.
3020	1/23/2012	1:38	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	180x - A large, faint oval halo glow. Has a tiny, hare brighter core seen with AV.
3024	1/23/2012	1:38	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	180x - A large, faint oval halo glow. Has a tiny, hare brighter core seen with AV.
3027	1/25/2017	22:10	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A small fat oval. Dim. Has small, brighter core.
3041	3/28/2014	22:14	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A larger, face on. Very dim. See splotchy nature to glow which looks like 2 CCW arms. Has tiny, extremely faint core and 3-4 faint field stars on glow.
3044	1/22/2012	2:33	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x - A nice edge on. Easy to see. Long and slender. Slight bulge seen at center. Hint of dust lane bisecting it. Uniformly lit.
3052	04/06/13	23:25	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A dim, larger, uniformly lit oval glow.
3081	04/06/13	23:30	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	134x – A small, circular, dim glow with larger, brighter core in center.

3091	5/11/2010	23:24	OK	OK	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – A dim oval glow with hint of halo around a larger core.
3320	5/28/2014	22:53	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>very faint</u> glow. Can't tell if a long, thin edge on with larger central bulge or a tilted oval. Seen with AV. Has dim field star on right hand side edge of glow. Uniformly lit.
3346	3/28/2014	22:29	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A larger, round, dim, uniformly lit glow.
3348	1/25/2017	23:10	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A small fat oval, uniformly lit, very faint.
3367	3/28/2014	22:28	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A small, round, dim glow with tiny, star like core in center of glow.
3370	3/28/2014	22:31	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A small dim oval with hare brighter, linear core centered on oval halo glow that has an even hare brighter central core.
3381	1/26/2017	22:03	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A small, <u>very faint</u> uniformly lit fat oval.
3389	4/9/2010	0:52	Great	Great	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – In same FOV as M105 and NGC 3384 is this small, very dim, uniformly lit oval below 3384 and to the right of it.
3396	03/05/05	22:56	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	16" f/5 Newtonian	134x – Above NGC 3395 are 3 other dim, uniformly lit smudges of light. NGC 3413 is linear, NGC 3395 is oval and the largest, NGC 3396, is circular in shape.
3403	1/25/2017	23:08	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A small, very faint, thin tilted oval, 4:1. Has tiny stellar core popping in once in a while.
3423	3/28/2014	22:45	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A larger, <u>very faint</u> fat oval, uniformly lit glow. On upper part of glow are 2 evenly bright, dim field stars.
3433	3/28/2014	22:38	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A larger, <u>extremely faint</u> uniformly lit, ghostly glow.

3437	5/27/2014	23:02	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, dim, fat thin oval, uniformly lit.
3448	2/24/2009	22:11	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – A tilted oval going from 2-8 o'clock. Small. Uniformly lit. Maybe hint of hare brighter core area. Its pretty dim yet easy to see.
3455	1/23/2012	21:45	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	180x - Near a brighter field star is this very faint, round-oval uniformly lit glow.
3478	5/28/2014	22:57	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x – A medium sized, long, thin cigar shape. <u>Extremely faint</u> , uniformly lit, smudge of light.
3485	3/24/2014	21:44	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – Nice. Brighter tilted oval with larger, bright core and lots of extended, dimmer halo.
3495	3/28/2014	22:48	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A larger, long, evenly thin dim uniformly lit glow. Just above a bright field star. Have to put star out of field to see this. It is square on right hand side and tapers to a point on left hand side.
3510	3/27/2014	21:42	Good	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – To upper left of a bright field star and near is this very thin, long, <u>very</u> faint small glow that seems to be a hare brighter in middle.
3512	3/27/2014	21:44	Good	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A small, brighter, tilted oval with small, bright core. Has field star to upper left of core and on halo glow.
3549	5/28/2014	23:09	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A <u>very</u> faint, long, medium sized tilted oval. Uniformly lit. Nice.
3571	3/28/2014	22:59	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A small, very dim, tilted oval with small, hare brighter core.
3614	5/28/2014	23:00	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, round, fat oval, <u>extremely faint</u> , uniformly lit, smudge of light.
3660	04/07/13	23:35	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A larger, <u>very</u> faint, oval, uniformly lit glow.
3690	2/24/2009	22:33	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – An oval glow, easy to see with tiny star-like nucleus off center and on lower part of halo glow. Goes from 2 – 8 o'clock. This one was neat.

3718	04/27/03	0:40	Fair	Fair	North Sterling State Park, CO-Moderately Dark Sky.	12.5" f/8 Newtonian	134x - 2 galaxies in FOV. NGC 3729-This is the smaller one to the left. Small, circular and uniformly lit. There is a field star at the bottom edge. NGC 3718-Is much larger and just as dim. Oval in shape. Has 2 field stars on the rhs and 1 on the lhs bounding this galaxy.
3735	9/28/2016	21:08	Good	Good	Okie-Tex Star Party-Kenton, OK-Moderately Dark Sky.	12.5" f/8 Newtonian	187x – A long thin 5:1, medium sized edge on. See central glow broken into 2-3 pieces. Not uniformly lit thru core. Very dim.
3738	5/12/2010	23:25	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – Around a bright field star I see 5 glows of light. All real dim. Below field star is small round dim uniformly lit glow of 3738.
3769	2/24/2009	22:45	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – A linear shaped uniformly lit glow going from 11:30 – 5:30 o'clock in FOV. Easy to see. No central brightening of core seen.
3780	5/28/2014	23:00	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x – A larger, long, <u>very</u> faint, tilted oval. Can see large part of center uniformly lit and here brighter than surrounding uniformly lit halo glow. Nice.
3801	3/13/2010	0:00	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – 3801 is a slender, dim, uniformly lit glow.
3802	1/23/2012	2:01	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	180x - A small, fat oval uniformly lit glow.
3885	04/07/13	23:55	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A small, dim, oval glow with here brighter core.
3894	1/23/2012	21:45	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	202x - A tiny oval glow with hint of have brighter core.
3895	1/23/2012	21:45	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	202x - A very faint oval smudge of light. Has here brighter, larger core area.
3904	5/10/2010	23:01	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x - Small, round dim glow with larger, little brighter core.

3917	1/17/2015	1:22	Great	Great	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x - A large, lens shape galaxy, very dim, uniformly lit glow.
3923	5/10/2010	23:03	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x - Oval shaped, bright, pretty uniformly lit with maybe a hint of a halo around it.
3955	04/01/05	22:39	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x - Small, edge on oval with hare brighter nucleus. Overall its dim.
3956	04/01/05	22:46	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	20" f/4.5 Newtonian	In Bill Possel's 20 inch scope, 250x . Very dim cigar shaped, uniformly lit glow.
3957	04/01/05	22:47	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x - Tiny, yet easy to see uniformly lit edge on galaxy.
3963	5/28/2014	23:32	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A <u>very</u> faint, larger, roundish glow. Can see mottling on glow and hint of 1 CCW arm off bottom. Maybe a couple of extremely faint field stars on lower part of glow.
3968	5/27/2014	23:24	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - An <u>extremely faint</u> ghostly glow. Hard to see. A small, fat oval shape maybe. Can't tell for sure. Seen once in a while with AV.
3972	5/28/2014	23:52	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A very small, thin oval with small, brighter core.
3976	3/28/2014	0:34	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x - A medium sized, long tilted oval. Very dim halo. Core larger and brightens to a small, brighter core.
3981	04/07/13	23:46	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A longer, thin, uniformly lit, <u>very</u> faint sliver of light.
4017	3/27/2014	22:40	Good	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x - A tiny oval, <u>very</u> faint, uniformly lit glow.
4033	04/07/13	23:42	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A small, tilted oval. <u>Very</u> faint. Has larger, brighter core that is not uniformly lit. See <u>extremely</u> faint halo taper off 11-5 o'clock from this core.
4050	04/07/13	23:44	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A larger, fat oval. Uniformly lit. <u>Very</u> faint.
4123	2/1/2019	23:56	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, very faint, uniformly lit oval glow.

4128	1/27/2017	20:12	Very Good	Very Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A very small tilted oval with larger, linear, brighter core. Center of bar has much brighter small, round core.
4145	2/1/2019	23:56	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - A small, very faint, uniformly lit oval glow.
4197	1/24/2012	0:59	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	202x - An extremely dim, uniformly lit glow. Fatter in middle.
4206	1/24/2012	0:22	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	202x - This is a thin, short, uniformly lit, <u>very</u> faint sliver of light.
4215	3/28/2014	0:37	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	149x – A small, long, very tilted oval. Dim halo. Small, bright core seen in center.
4283	3/18/2008	3:30	Good	Fair	Crow Valley campground. Moderately Dark Sky.	12.5" f/8 Newtonian	134x - Just below and to the left a bit from NGC 4274 is this small, round glow of halo with a little brighter central core seen.
4348	5/1/2019	23:36	Very Good	Very Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A very faint edge on, 4:1, uniformly lit. Can see arm tapers on top and bottom. Maybe down center see a hint of a hare brighter something.
4378	5/3/2016	22:56	OK	Good	Berthoud, CO	24" f/4 Newtonian	188x - A small, dim tilted oval, 2:1 with larger, brighter core.
4388	5/12/2010	2:25	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – 4388 is a long slender uniformly lit edge on. Goes from 11:30 – 5:30 o'clock in FOV.
4389	4/24/2022	21:47	Very Good	Very Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A medium sized, dim oval with linear glow down Center that is easy to see.
4412	3/25/2019	22:52	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A small, extremely faint oval with brighter, stellar core.
4417	5/8/2018	23:18	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, thin, 2:1 dim oval. Has linear, brighter core down center and small bit brighter core in center of this.
4421	5/8/2018	22:21	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A very small, thin oval, <u>very faint</u> . Has brighter complex core. Saw multiple brighter areas in center of glow. Maybe linear core or bar.

4425	5/8/2018	21:59	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, very faint, thin, 3:1 oval. Has brighter core that dims slowly to edge.
4452	5/8/2018	21:38	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A long, thin, 4:1, uniformly lit faint glow.
4454	5/27/2014	23:31	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A very small, <u>extremely faint</u> , linear oval. Uniformly lit.
4455	2/2/2019	0:26	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - A long, 4:1, cigar shaped, <u>very faint</u> oval, uniformly lit glow.
4457	3/25/2019	22:55	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A small dim oval glow with brighter stellar core. Nicest one I've seen tonight.
4460	4/24/2022	22:14	Very Good	Very Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A long thin 4:1 edge on. A bright field star to right. See a larger, bit brighter core and then a bit brighter down the center of arms.
4461	5/12/2010	2:25	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x - A tiny round smudge of light.
4462	04/07/13	0:56	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A small tilted oval with brighter core. Halo tapers off quickly from central area of glow on both sides. Halo very dim.
4469	5/8/2018	23:21	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized cigar shaped fat oval. 4:1. Uniformly lit dim glow.
4474	5/8/2018	22:13	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A very small, thin, 2:1 oval. Very faint. Has hare brighter larger central area with brighter small core in center of this. <u>Very faint</u> halo off each end.
4479	5/8/2018	22:55	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A very small, thin, 2:1 oval. <u>Extremely faint</u> , uniformly lit ghostly glow.
4496	3/25/2019	23:03	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A medium sized, extremely faint ghostly glow with hare brighter stellar core.
4503	5/8/2018	23:10	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, fat oval. 2:1. Has larger brighter core that dims slowly to edge of very faint halo glow.
4504	5/1/2019	23:58	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A larger, fat oval. Not circular. A dim, uniformly lit glow.

4517	5/10/2010	23:48	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – A very long, slender oval, uniformly lit and dim. Has bright field star ½ across it and on bottom left edge. Goes from 11:30 – 5:30 o'clock in FOV and is approx 1/3 FOV long.
4521	1/27/2017	22:21	Very Good	Very Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A small, thin tilted oval. 3:1. Has small, bit brighter core and <u>very faint</u> tapered arms off each side.
4532	3/25/2019	22:37	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A small, fat oval, extremely faint, uniformly lit.
4561	2/2/2019	0:33	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - A small, round, very faint glow with hare brighter, larger core with maybe a stellar core at the center of that.
4564	2/2/2019	1:45	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - A dim, long, thin edge on. 3:1. Has larger, brighter core and tiny tapered arms. Goes 11:30 – 5:30 o'clock in FOV. Nicest one seen tonight.
4567	2/2/2019	1:48	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - A larger, very faint, fat oval. Vertical in FOV. Approx. ½ FOV long. Has tiny bright core.
4568	2/2/2019	1:48	Good	Good	Berthoud, CO	24" f/4 Newtonian	188x - To lower left and touching N4567's halo glow is this medium sized, fat oval. Dim. Has brighter stellar core. Would have missed these and thought them to be one but now can see two distinct ovals touching. Another look, N4767 is tilted a bit with respect to N4568. A nice surprise.
4580	3/25/2019	22:46	OK	OK	Berthoud, CO	24" f/4 Newtonian	187x - A bit larger than small sized fat oval, very faint, uniformly lit.
4592	5/27/2014	22:27	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A long thin dim uniformly lit glow.
4593	5/27/2014	23:35	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>very</u> faint, thin oval with hare brighter small core in center, seen with AV.
4597	4/7/2016	20:44	Very Good	Very Good	OzSky, Coonabarabran, NSW AUS	18" f/4.5 Newtonian	158x - A very small, very faint, thin oval with hare brighter stellar core.
4602	5/27/2014	23:33	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, long, thin oval, <u>very</u> faint, uniformly lit.
4623	5/8/2018	23:45	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A very small, <u>extremely faint</u> , 2:1 thin oval, uniformly lit ghostly glow.
4632	4/25/2022	1:05	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A medium sized dim tilted oval. Has a larger, hair brighter core area.

4634	5/8/2018	22:49	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, thin, 3:1, uniformly lit, <u>extremely faint</u> ghostly glow.
4653	4/24/2022	23:35	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A nice, long thin tilted oval. This is a brighter one. Has large core that dims into halo glow.
4658	5/2/2019	1:05	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A small oval. Dim. To right of a bright field star. Has faint field star on bottom of halo glow. Once in a while there appears to be a brightness in center using AV.
4684	5/27/2014	23:28	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, thin edge on. Bright. Most of what is seen is a long, linear core of uniform brightness.
4694	5/8/2018	23:06	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, thin, 2:1 linear, <u>very faint</u> glow. Has larger, hare brighter central core area.
4700	5/2/2019	0:04	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A long, thin, 4:1 tilted oval. It is brighter, yet small.
4710	5/12/2010	2:52	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – A dim, uniformly lit, larger edge on with central bulge, which is mostly above the center line of edge on.
4731	5/2/2019	2:39	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A very faint, long, thin cigar shaped, 5:1, uniformly lit. A very faint field star is above and centered and very close to halo glow.
4747	4/26/2022	1:11	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A long, thin tilted oval. Extremely faint. Uniformly lit.
4750	1/26/2017	21:04	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A dim, medium sized fat oval, uniformly lit.
4771	4/26/2022	0:44	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A long, slender, fat vertical, very dim glow. 5:1. It's long. Uniformly lit.
4772	4/26/2022	0:41	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A small, dim, lens shape. Has large, bright core that has many brighter areas. Core surrounded by tiny bit of halo. Core is most of what is seen.
4775	5/2/2019	3:35	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A larger, dim, uniformly lit fat oval that is almost circular in shape.

4779	5/8/2018	23:25	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>extremely faint</u> , uniformly lit roundish ghostly glow. Almost not there.
4782	5/1/2019	0:47	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A bit smaller round, dim glow with a faint stellar core.
4783	5/1/2019	0:47	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A bit bigger than lower galaxy NGC 4782. Has a brighter, stellar core.
4790	5/1/2019	1:15	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A small, dim, fat tilted oval that has a hare brighter, huge, mottled core area.
4793	4/26/2022	0:44	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A long, thin oval. Extremely faint. Uniformly lit. Small.
4795	5/8/2018	23:28	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A very small, very faint oval. Has bit brighter small core.
4808	4/26/2022	0:48	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A very small, dim fat oval to round glow. Has a hair brighter bar down center of halo glow.
4814	1/27/2017	22:38	Very Good	Very Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	195x - A medium sized fat oval. Has hare brighter bar down center of glow and is more than just a little bit of a glow
4818	5/2/2019	2:15	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	16" f/4 Newtonian	125x - A longer, 3:1 tilted oval. Dim. Has larger, hare brighter core area.
4825	4/30/2019	0:16	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A dim, tilted oval. Small. Has larger, brighter core that is mottled.
4861	6/23/2009	0:12	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - A very faint sliver of uniformly lit light going from 2 - 8 o'clock in FOV. Fairly long.
4868	5/27/2014	22:33	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A small, round, very dim glow. w/AV, can see it has a brighter core in center and once saw 2 CCW arms spiraling out from core at 8 and 2 o'clock.
4877	5/27/2014	23:46	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>extremely faint</u> linear smudge of light. Barely there with AV.

4889	5/13/2010	2:13	Fair	Fair	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – 4 faint glows seen in FOV. Below a bright field star is a bit larger faint round glow of 4889.
4899	4/30/2019	0:19	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A small, very faint, uniformly lit oval. Looks lens shaped.
4933	5/13/2010	22:19	Good	OK	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – A longer, small, cigar shaped uniformly lit dim glow. Just below and to right of a bright field star. Has a hare brighter core and maybe a dim field star on upper halo glow. Goes from 11 – 5 o'clock in FOV.
4951	04/08/13	0:09	OK	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A larger, <u>very</u> faint, lenticular shaped, uniformly lit glow.
5015	04/08/13	0:12	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – An <u>extremely</u> faint, small, oval smudge of light.
5016	1/24/2012	2:15	OK	OK	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	263x - A fatter small uniformly lit oval.
5073	5/14/2012	23:17	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	15mm – A small, thin, uniformly lit linear glow. PA 1 o'clock.
5085	04/07/13	1:39	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A larger, roundish dim glow. Has hint of hare brighter core. Thought I saw CCW spiral arms off top and bottom of core.
5101	5/11/2010	0:02	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – A brighter oval with larger, bright core and dim halo around it. Pretty dim overall.
5112	5/27/2014	22:44	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A larger, extremely faint, round, uniformly lit glow. Seen with AV only.
5147	5/28/2014	0:03	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>very</u> dim tilted oval with brighter, small core in center of halo glow.
5170	5/14/2012	23:15	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	169x – Nice edge on. Needle thin. Has longer faint arms that extend from hare brighter central bulge. PA 2 o'clock. Very nice.
5230	5/27/2014	23:51	OK	OK	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, round, <u>very</u> faint, uniformly lit glow.

5247	5/11/2010	2:34	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – Larger, roundish, very dim glow with bit brighter central region in center of glow.
5253	5/11/2010	0:53	Good	Good	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	134x – Nice long oval with larger, longer bright core that appears mottled. Dim bit of halo that on each end, goes from 11:30 – 5:30 o'clock in FOV.
5290	5/27/2014	22:57	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A small, thin edge on. Longer, dim tapered arms off brighter small core.
5297	6/23/2009	0:28	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - A very dim, linear smudge of uniformly lit light. Nestled with 2 field stars, with the lower star much brighter than upper star.
5300	7/20/2012	22:02	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, round, <u>extremely</u> faint glow. Can see its mottled with possible CCW spiral structure.
5301	5/28/2014	0:31	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, long, thin, slender, very faint, uniformly lit glow.
5324	7/20/2012	21:56	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An extremely faint oval. Small. Uniformly lit.
5326	6/23/2009	0:49	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - A small dim circular glow with tiny brighter core.
5328	5/1/2019	2:14	OK	OK	Texas Star Party- Ft Davis, TX. Very Dark Skies.	12.5" f/8 Newtonian	195x - A tiny oval, extremely faint, uniformly lit. Seeing is OK to poor this low in the south.
5334	7/20/2012	21:58	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, extremely faint elongated glow between 2 fields stars at each end. Has a hare brighter, larger core area.
5347	7/20/2012	22:23	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small extremely dim linear smudge of light.
5350	6/23/2009	0:49	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - A bit larger, circular uniformly lit glow.
5351	6/23/2009	0:49	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - A very faint uniformly lit oval glow.
5353	6/23/2009	0:49	OK	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Brightest of all members of this group. Elongated oval with brighter center.
5376	03/21/04	1:28	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x - An oval, dim galaxy with little brighter nucleus that is easy to see. Halo may extend a bit on each side of nucleus.

5377	5/28/2014	0:32	Fair	Fair	Berthoud, CO	24" f/4 Newtonian	281x - A very dim, long, medium sized, tilted oval with larger, brighter core. Nice.
5379	1/24/2012	2:15	Fair	Fair	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	30" f/4.5 Newtonian	202x - A small, dim oval with brighter, larger core surrounded by a bit of halo glow.
5389	6/30/2014	0:57	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, dim, tilted oval with large brighter core.
5395	6/29/2008	22:21	Good	Good	Raymer, CO. Moderately Dark Sky.	12.5" f/8 Newtonian	134x – Bottom galaxy in FOV is a larger oval and has hare brighter center. Above it and at 11 o'clock is a hare brighter (overall) circular galaxy with bright core and bit of halo around it.
5406	7/20/2012	22:32	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, <u>very</u> faint face on with brighter, star like core in center. Hint of CCW spiral arms seen.
5422	7/3/2013	22:10	OK	OK	Deer Trail, CO. Moderately Dark Skies.	8" f/6 Newtonian	121x - Nice small edge on with brighter core.
5427	05/25/06	0:18	Fair	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x (19mm)- 5426 is a dim, long oval, pretty uniformly lit with hint of hare brighter core area. Right next to it on right is a smaller, bit dimmer galaxy (5427). Its more elongated and is perpendicular to 5426. In between them is a very faint field star.
5468	7/20/2012	21:48	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A large, round, very dim glow. Has star like core seen in center of glow once in a while. It is to the right of a bright field star.
5574	03/21/04	1:28	Good	Good	Pawnee Grasslands, CO- Moderately Dark Sky.	12.5" f/8 Newtonian	134x - Just above NGC 5366 it is a small, faint smudge of light with a tiny, dim nucleus.
5645	7/20/2012	22:16	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Looks like a propeller. Elongated glow. Maybe 2 spiral arms off top and bottom to give propeller look. Disk mottled. Hare brighter core. Lots of detail seen in core.
5665	8/9/2010	21:21	OK	OK	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – A small, dim, round, uniformly lit glow.
5669	7/20/2012	22:19	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – An extremely faint linear smudge of light. Small. This could be the core for once in a while see a large, extended halo around this core. Makes this a pretty large object in FOV with this halo. Goes from 10-4 o'clock in FOV.

5678	4/21/2009	23:47	Great	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Small, dim, oval glow with hare brighter small central area. Situated between 2 field stars and closer to upper left star.
5690	7/20/2012	22:08	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Long, slender thin galaxy. Bright field star to lower left of glow. Below and to right of a very bright field star.
5701	7/20/2012	22:11	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Small, round, dim glow with bright stellar core that is seen once in a while.
5713	5/15/2012	0:50	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	169x – A small linear glow with hint of hare brighter core.
5719	5/15/2012	0:50	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	15mm – A larger, round, uniformly lit glow.
5729	04/07/13	2:57	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A larger, thin, tilted oval. Uniformly lit. <u>Very</u> dim.
5740	5/15/2012	0:40	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	15mm – A dim oval with hare brighter core. Medium sized.
5757	04/07/13	2:53	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A small tilted oval. Dim. Has tiny brighter core.
5792	5/15/2012	0:42	Good	Good	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	169x – A dim, round glow with something a have brighter near core area. Might be a faint field stars on halo glow. Galaxy is to right and very near a brighter field star.
5875	6/30/2014	0:41	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, long, thin, tilted oval. Very dim. Uniformly lit.
5885	04/07/13	2:49	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A <u>very</u> faint, round, larger, uniformly lit glow. Just above and very near a dim field star.
5898	04/07/13	2:26	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x - A small, oval glow. It has a larger, brighter core.
5903	04/07/13	2:26	Good	Good	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	20" f/4.5 Newtonian	187x – A dim, round glow. Small. Has larger, brighter core.

5905	6/30/2014	0:46	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, <u>very</u> faint oval with larger, brighter core that is easy to see beings is it so faint.
5908	6/30/2014	0:44	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, dim, long thin tilted oval with larger, linear, brighter core seen once in a while.
5921	07/31/08	21:52	Good	Good	WUTS 2008, Fox Park, WY	12.5" f/8 Newtonian	134x - Small, dim oval galaxy with hare brighter and bigger nucleus.
5949	6/30/2014	1:03	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A medium sized, long, thin cigar shaped glow. Has a long, linear, brighter, mottled core seen once in a while.
5962	6/29/2014	23:59	Good	Good	Berthoud, CO	24" f/4 Newtonian	281x - A small, dim, fat oval that brightens slowly to a small, brighter core area.
5965	9/27/2011	21:46	Good	Good	Okie-Tex Star Party-Kenton, OK-Moderately Dark Sky.	12.5" f/8 Newtonian	15mm – N5965 is a linear edge on, longer, dim with hare brighter core.
5984	6/30/2014	1:13	Good	Good	Berthoud, CO	24" f/4 Newtonian	182x - A small, <u>extremely faint</u> fat oval, uniformly lit glow.
6412	08/02/08	0:23	Good	Good	WUTS 2008, Fox Park, WY	12.5" f/8 Newtonian	134x - Very dim, uniformly lit fat oval smudge of light. Very bright field star to lower right and near it at 4 o'clock.
6926	8/18/2012	23:27	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A very dim, large oval. Uniformly lit.
7013	8/18/2012	23:30	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A nice, brighter galaxy with larger, bright core and a star like core in center of this seen once in a while. Lots of dim halo around this larger core that tapers off each end and dims quickly.
7137	8/18/2012	23:42	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger circular uniformly lit, easy to see glow. Has 4-5 faint field stars on lower left part of glow.
7252	10/27/2008	20:44	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Small, circular halo glow with larger hare brighter core area seen. Easy to see in FOV.
7302	8/19/2012	0:00	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small elongated oval with brighter, large, textured core area surrounded by <u>very</u> faint halo glow.
7309	8/18/2012	23:54	Fair	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A medium circular glow. <u>Very</u> faint for 12.5 predicted magnitude.
7371	8/18/2012	23:57	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger elongated oval. Large, textured core area. Very dim overall. Bit of faint halo around core.
7385	10/18/2009	0:20	OK	OK	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Larger oval. To left of dim field star. Hint of a hare brighter core.

7497	8/19/2012	1:07	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A long, approx ½ FOV long, flat, fat uniformly lit glow. Hint of larger core area near center of glow.
7585	10/27/2008	20:14	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Small, brighter circular halo glow with larger, hare brighter core area seen on halo glow. Easy to see. w/AV, central part of core is a bright, tiny stellar nucleus. Nice.
7625	10/27/2008	19:31	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Very near a very bright field star. Small, dim circular halo glow with brighter core that every once in a while looks stellar. Most of the time it's a larger glow. Easy to see in FOV. Need to put bright field star out of FOV to see it which puts galaxy very near edge of FOV, making it harder to study.
7678	10/27/2008	19:39	Good	Good	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Nice. Easy to see. Very dim elongated oval. Goes from 11 to 5 o'clock. On lower right, glow is bounded by 3 stars and upper left its bounded by 1. Glow fits nicely in between these stars. Dim, hare brighter core seen in very middle of glow.
7721	8/19/2012	0:03	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A large fat cigar shaped, uniformly lit glow. 2/3 FOV long.
7741	8/19/2012	1:10	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A small linear oval with hint of large, hare brighter core area. Pretty uniformly lit though.
7743	8/19/2012	0:51	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – Nice. Small brighter elongated oval. Maybe what is seen is brighter core with dim bit of halo extending off both ends.
7753	12/28/2008	17:52	OK	OK	Deer Trail, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x – Very dim, round, uniformly lit smudge of light. Very small in size yet easy to see in FOV w/AV. Maybe a hint of something in center of glow.
7769	8/10/2010	0:26	Great	Great	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - Below NGC 7771 and 7770 is a larger, circular glow of 7769. Uniformly lit but very dim with star like core in center of glow.
7771	8/10/2010	0:26	Great	Great	Keota, CO. Moderately Dark Skies.	12.5" f/8 Newtonian	134x - 7771 is a small, linear galaxy, goes from 2 – 8 o'clock with hint of a brighter core area.
7782	8/19/2012	0:39	OK	OK	Deer Trail, CO. Moderately Dark Skies.	C14	205x – A larger, roundish uniformly lit glow. Maybe a hint of texture on glow.

Observational Statistics:

Number
Observed 300 of 300

Magnifications Used:

9mm 282x
10mm 254x
19mm 134x
32mm 80x

Abbreviations:

AV - Adverted Vision
FOV - Field of View of Eyepiece
DV - Direct Vision