

Object ID	RFGC Number	Mag	Con	Date	Time	Observing Location	Latitude	Longitude	Seeing	Transp	Telescope	M / DA	Power	Position Angle	Description
IC 2531	1682	13.0	Ant	1/22/2012	2:14	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	202x	90	A larger, linear, long uniformly lit, very faint glow.
ESO 435-G019	1678	14.1	Ant	1/22/2012	2:10	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	202x	120	A tiny, very faint galaxy. Looks like an out of focus star. Linear.
UGC 1999	547	14.1	Ari	9/28/2011	0:40	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	Fair	12.5" f/8 Newtonian	M	170x	20	A ghostly long linear glow. Barely there.
UGC 2082	558	13.2	Ari	1/22/2012	21:10	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	263x	0	A very faint, longer, larger, slim uniformly lit glow.
UGC 9249	2776	14.5	Boo	5/14/2012	0:12	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	105	An extremely faint ghostly sliver of light. Small. Thin.
UGC 9169	2761	13.3	Boo	5/14/2012	0:15	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	90	A larger, extremely faint linear glow. Moving FOV up and down draws my eye to it.
UGC 9242	2774	13.9	Boo	1/24/2012	2:27	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	30" f/4.5 Newtonian	DA	134x	30	An extremely ghostly sliver of light.
NGC 5714	2826	14.5	Boo	1/24/2012	2:21	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	30" f/4.5 Newtonian	DA	134x	150	A long, needle thin galaxy that is uniformly lit. Nice.
UGC 3697	1172	14.5	Cam	3/15/2012	20:04	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	30	A nice edge on. Small. Seen w/AV. Fatter, brighter core bulge and short tapered arms. Very dim.
UGC 3137	895	13.8	Cam	3/15/2012	20:18	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	120	A small, thing ghostly glow.
UGC 711	255	14.3	Cet	9/26/2011	4:58	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	30	An extremely faint linear sliver of light. Seen with AV and moving FOV back and forth.
UGC 2441	633	14.4	Cet	9/28/2011	2:05	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	85	An extremely faint ghostly, small, linear smudge of light.
MCG-2-3-16	179	14.3	Cet	9/28/2011	0:36	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	Fair	12.5" f/8 Newtonian	M	170x	30	A nice, slender, edge on with hare brighter core.
ESO 540-G016	161	14.5	Cet	9/28/2011	2:18	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	90	A longer, linear, uniformly lit faint glow. Easy to see. There are two very faint fields stars on glow.

MCG-1-5-47	396	14.6	Cet	12/17/2011	19:45	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	OK	OK	12.5" f/8 Newtonian	M	134x	120	A very dim, slender uniformly lit galaxy. Barely there with direct vision. Easy to see with AV.
UGC 1803	501	14.7	Cet	12/17/2011	19:56	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	OK	OK	12.5" f/8 Newtonian	M	134x	60	A larger, fat sliver of light. Extremely dim. Barely there.
UGC 4550	1422	14.4	Cnc	1/22/2012	22:16	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	263x	90	An extremely faint ghostly small linear glow.
NGC 4222	2239	14.1	Com	1/24/2012	0:19	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0-10	A Beauty. Nice. Long. Bright. Has larger, very bright core and long tapered arms
IC 755	2164	14.7	Com	3/15/2012	22:06	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	30	A small, <u>very dim</u> , uniformly lit linear glow.
UGC 7321	2246	14.0	Com	3/15/2012	21:57	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	30	An extremely faint, thin ghostly glow.
NGC 4565	2335	10.6	Com	5/31/2011	11:49	Keota, CO - Moderately Dark Skies	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	M	134x	0	AWESOME!!! Long slender edge on with nice central nucleus bulge. Nucleus brighter but arm easy to see. Can see the dust lane on nucleus part of galaxy, just below the center line of symmetry.
NGC 4173	2216	13.3	Com	1/24/2012	2:11	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	60	A very dim, large, fat central area. Brighter. Out of this large core area are 2 short stubby arms.
UGC 7125	2197	13.5	CVn	5/14/2012	0:23	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	45	An <u>extremely faint</u> glow. See it has larger core area and short arms.
NGC 4244	2245	10.2	CVn	1/22/2012	1:22	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	263x	165	A long slender uniformly lit galaxy, pencil thin.
UGC 7774	2336	14.2	CVn	5/14/2012	0:26	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	135	A <u>ghostly linear</u> glow. Small. Has faint field star on glow.
NGC 4183	2222	13.3	CVn	1/23/2012	23:58	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0-15	A long, thin, extremely faint linear glow with hare brighter central bulge and star like core on bulge. Nice edge on.
NGC 5023	2495	12.7	CVn	1/24/2012	1:23	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	165	A long, very faint, thin uniformly lit sliver of light.

NGC 5229	2594	14.1	CVn	8/10/2010	21:35	Keota, CO - Moderately Dark Skies	40° 41' 2"	104° 4' 34" W	Great	Great	12.5" f/8 Newtonian	M	134x	60	A slender, linear sliver of light. Dim. Uniformly lit.
NGC 5907	2946	11.3	Dra	8/10/2010	22:44	Keota, CO - Moderately Dark Skies	40° 41' 2"	104° 4' 34" W	Great	Great	12.5" f/8 Newtonian	M	134x	150	A larger, ½ FOV long. Brighter core that dims slowly into tapered arms. Pretty linear. No central bulge seen.
NGC 5965	2994	13.0	Dra	9/27/2011	21:46	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	OK	12.5" f/8 Newtonian	M	170x	120	A longer edge on glow with tiny star like core. To left is a faint field star approx same magnitude as core. Faint yet easy to see.
NGC 5777	2878	14.2	Dra	9/27/2011	21:41	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	OK	12.5" f/8 Newtonian	M	170x	60	A linear edge on, longer, dim with hare brighter core.
UGC 11455	3478	14.5	Dra	9/27/2011	22:13	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	OK	12.5" f/8 Newtonian	M	170x	90	A flat, thin smudge of light. Approx ½ FOV in width.
NGC 1110	600	14.5	Eri	1/20/2012	20:55	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	20" f/4.5 Newtonian	M	134x	150	A faint, linear glow with hare brighter core.
NGC 1247	677	13.7	Eri	9/28/2011	2:38	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	85	An edge on with noticeable central bulge. Uniformly lit.
MCG-2-10-9	766	14.5	Eri	9/26/2011	5:31	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	120	An extremely faint sliver of light. Barely there. Nestled between 2 equally bright, dim field stars.
NGC 1145	621	14.2	Eri	1/20/2012	21:14	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	20" f/4.5 Newtonian	M	134x	30	A very faint, thin, small sliver of light.
MCG-1-10-35	777	14.6	Eri	1/20/2012	20:20	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Great	20" f/4.5 Newtonian	M	134x	60	A small faint fatter linear glow. Hare brighter core. To right and near a bright double field star.
MCG-3-9-41	722	14.7	Eri	1/20/2012	21:41	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Great	20" f/4.5 Newtonian	M	134x	45	A larger, very faint linear glow with hare brighter, tiny core. Most of what is seen is halo glow.
NGC 2357	1194	14.3	Gem	1/22/2012	20:47	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	111x	90	An extremely ghostly sliver of light, seen w/AV. Short in length. 263x shows uniformly lit, slender glow.
MCG-1-24-1	1500	13.2	Hya	1/22/2012	2:23	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	M	202x	120	A faint, longer, slender uniformly lit glow. Has a very bright field star below it and touching left of center and above and right of center is an extremely faint field star touching it also.

ESO 569-G014	1893	14.0	Hya	3/15/2012	23:05	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	5	An extremely faint ghostly glow of a sliver of light.
ESO 564-G027	1504	14.4	Hya	3/15/2012	21:02	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	0	A very faint, small, thin, uniformly lit glow. I was looking at the field and it just popped into view. Pretty cool.
MCG-4-30-14	2373	14.5	Hya	5/14/2012	22:55	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	0	Above and to the left a bit of M68 is this galaxy. A long, approx ¼ FOV long. Thin, <u>very faint</u> uniformly lit glow.
IC 4351	2682	12.9	Hya	5/14/2012	22:47	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	135	Larger, thin, longer, <u>extremely dim</u> uniformly lit glow.
NGC 3279	1830	14.4	Leo	1/23/2012	1:46	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	180x	175	A dim, linear glow. Easily seen.
UGC 6594	2083	14.4	Leo	1/23/2012	2:09	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	30" f/4.5 Newtonian	DA	180x	30	An extremely ghostly glow of a sliver of light.
NGC 3454	1906	14.4	Leo	1/23/2012	1:49	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	180x	5	A thin, very faint glow. Uniformly lit.
NGC 3501	1945	13.6	Leo	1/23/2012	1:55	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	180x	120	A thin, faint glow. w/AV see slightly larger bulge in center. Longer arms off each side.
NGC 1886	970	14.5	Lep	1/20/2012	22:15	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	20" f/4.5 Newtonian	M	134x	105	A very dim, linear glow with fatter core and hare brighter core.
MCG-3-38-8	2860	14.0	Lib	5/14/2012	23:52	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	105	An <u>extremely long</u> , ghostly glow. Almost not there.
IC 2461	1528	14.5	Lyn	1/22/2012	22:52	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	180x	105	A larger, very faint glow. See has larger, hare brighter core.
NGC 2424	1244	14.1	Lyn	1/22/2012	20:53	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	263x	150	A very dim edge on. See central bulge with brighter core and short, tapered arms.
IC 2233	1340	13.6	Lyn	1/22/2012	22:41	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	180x	75	An extremely ghostly glow, larger, linear, barely there.

UGC 4277	1339	14.2	Lyn	1/22/2012	22:44	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	180x	60	An extremely ghostly glow. Cigar shaped.
UGC 11093	3324	13.4	Oph	8/10/2010	22:39	Keota, CO - Moderately Dark Skies	40° 41' 2"	104° 4' 34" W	Great	Great	12.5" f/8 Newtonian	M	170c	85	A slender sliver of light with hare brighter core. To right and below is a small, round glow of PGC 61300 A little brighter but uniformly lit.
UGC 12423	4081	14.0	Psc	9/27/2011	23:16	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	OK	12.5" f/8 Newtonian	M	170x	??	An extremely faint, roundish smudge of light.
NGC 522	318	14.5	Psc	1/22/2012	20:43	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	111x	150	A small, very dim linear glow. w/AV, see slightly larger bulge in core area.
UGC 260	102	14.5	Psc	9/27/2011	23:24	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	OK	12.5" f/8 Newtonian	M	170x	120	A long, slender uniformly lit, extremely faint glow. It's long in the FOV.
NGC 100	95	13.3	Psc	1/22/2012	20:33	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	111x	120	An almost not there, extremely dim, longer sliver of light. 263x shows its extreme faintness as well as a slight central bulge and long tapered arms.
UGC 542	206	14.5	Psc	9/28/2011	0:46	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	Fair	Fair	12.5" f/8 Newtonian	M	170x	75	A longer, extremely faint ghostly linear glow with 3-5 brighter field stars on glow.
ESO 563-G021	1431	14.3	Pyx	3/15/2012	20:36	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	150	An extremely faint gal, yet easy to see. Hare brighter, fatter core area and extremely faint, short arms. Very linear.
ESO 563-G014	1421	14.6	Pyx	3/15/2012	20:47	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	Good	Good	12.5" f/8 Newtonian	M	169x	30	An extremely dim, tiny, elongated glow
ESO 473-25	124	14.7	ScI	12/17/2011	18:27	Deer Trail, CO Moderately Dark Sky	103.55° 45.3 W	39° 38' 53" N	OK	OK	12.5" f/8 Newtonian	M	134x	60	A dim, tapered, elongated oval. Easy to see with direct vision.
UGC 10288	3111	13.5	Ser	5/14/2012	0:21	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	45	An extremely faint, thin, longer sliver of light.
NGC 3044	1654	13.3	Sex	1/22/2012	2:33	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	202x	75	A nice edge on. Easy to see. Long and slender. Slight bulge seen at center. Hint of dust lane bisecting it. Uniformly lit.
NGC 3365	1876	13.4	Sex	1/23/2012	0:56	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	180x	165	A ghostly sliver of light. Sky poor. Slender, sliver of light.
UGC 5708	1814	14.2	Sex	1/23/2012	1:12	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	180x	120	A ghostly glow between two field stars. Brighter field star on bottom.

MCG-1-26-12	1700	14.5	Sex	1/22/2012	2:45	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	OK	OK	30" f/4.5 Newtonian	DA	202x	60	A small, long, oval and uniformly lit. There is a faint field star just off lower end of galaxy.
NGC 973	553	14.0	Tri	9/28/2011	1:03	Okie-Tex Star Party. Dark Skies.	102° 15.1 W	36° 53.8 N	OK	Good	12.5" f/8 Newtonian	M	170x	30	A uniformly lit, small, linear glow.
UGC 1281	384	13.3	Tri	1/22/2012	21:04	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	263x	30	An extremely faint, tilted oval with larger, hare brighter core.
NGC 4157	2212	12.2	UMa	1/23/2012	23:53	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	15	A long, brighter edge on. Brighter core area with slight bulge and very faint tapered arms.
UGC 6667	2093	14.1	UMa	1/23/2012	23:50	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	120	An extremely faint ghostly sliver of light.
UGC 5459	1727	13.3	UMa	5/14/2012	22:19	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	150	A small, <u>very</u> faint glow between 2 brighter field stars.
UGC 8146	2443	14.5	UMa	1/24/2012	1:32	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0	An extremely faint, small edge on. See bigger central bulge and tapered arms.
NGC 2820	1537	13.9	UMa	1/23/2012	20:55	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	180x	120	A long, thin brighter pencil. Uniformly lit.
NGC 4517	2315	11.3	Vir	1/24/2012	2:00	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	15	A dim, long (1/2 FOV long) fat most of its length then quickly tapers into arms at each end.
NGC 4289	2262	14.0	Vir	1/24/2012	1:42	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	105	A small, extremely faint edge on.
NGC 4197	2227	13.8	Vir	1/24/2012	0:59	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	60	An extremely dim, uniformly lit glow. Fatter in middle.
IC 3322A	2284	14.1	Vir	5/14/2012	22:32	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	0	A small, long thin uniformly lit sliver of light. Seen w/AV. Comes and goes in FOV. Nice.

NGC 4356	2277	14.4	Vir	1/24/2012	1:52	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	60	A very dim, long thin uniformly lit edge on. Just below a bright field star almost in middle of glow. Looks like a flying saucer.
NGC 4330	2270	13.5	Vir	1/24/2012	0:55	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0	Small edge on. Dim yet easy to see. Has larger, hare brighter core.
NGC 5496	2731	13.4	Vir	5/14/2012	23:44	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	150	A long, ½ FOV long fatter uniformly lit glow. Has faint field star on lower part of glow.
NGC 4703	2381	14.3	Vir	5/14/2012	23:27	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	15	A small, thin, has hare brighter, oval core and <u>extremely</u> faint short arms off each end of this core.
MCG-1-33-60	2429	14.4	Vir	5/14/2012	23:35	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	90	Easy to see larger core area. Has <u>very</u> faint short arms off each side. Has very bright field star ½ FOV to right. Have to put this field star out of FOV to view this galaxy.
NGC 5073	2528	13.8	Vir	5/14/2012	23:25	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	45	A small, thin, uniformly lit linear glow.
MCG-3-33-28	2444	14.5	Vir	5/14/2012	23:11	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	135	2 very faint, larger, longer glows in FOV very near each other and almost parallel. Bottom glow (-38) is longer and is almost 1 FOV long than the upper glow (-28) which has a field star on lhs of glow and is approx 2/3 FOV long.
NGC 5170	2579	11.8	Vir	5/14/2012	23:17	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	75	Nice edge on. Needle thin. Has longer faint arms that extend from hare brighter central bulge. Very nice.
ESO 576-G011	2501	14.0	Vir	5/14/2012	23:07	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	75	A <u>very</u> faint, linear, longer glow.
NGC 1163	640	14.7	Eri	1/20/2012	21:10	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	20" f/4.5 Newtonian	M	134x	120	A brighter, linear glow. Larger, bright core with very dim halo around on each side.
ESO 428-28	1210	14.6	Cma	1/20/2012	22:39	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	20" f/4.5 Newtonian	M	134x	120	A very faint linear glow. Just below and to right of a very bright field star.
UGC 11994	3926	14.7	Peg	1/21/2012	19:28	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Poor	20" f/4.5 Newtonian	M	134x	105	A faint smudge of uniformly lit glow. Oval in shape with 3-4 field stars on glow. Easy to see though.

UGC 433	152	15.0	And	1/22/2012	21:36	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	263x	135	A slender, very dim small uniformly lit glow.
NGC 3245A	1796	14.6	Lmi	1/22/2012	22:31	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Great	Good	30" f/4.5 Newtonian	DA	263x	105	An extremely faint linear thin glow.
UGC 7170	2210	14.7	Com	1/23/2012	2:15	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Fair	Fair	30" f/4.5 Newtonian	DA	180x	60	An extremely ghostly glow. Long and thin.
UGC 4719	1467	14.6	UMa	1/23/2012	19:54	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	150	A long, slender, ghostly glow. Very faint. Has 2 field stars on each end of glow. Then between 2 stars is this extremely faint glow of nucleus in center of glow.
UGC 5173	1603	14.7	Leo	1/23/2012	21:57	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0	A dim glow with 2 field stars or 1 core and 1 field star on glow.
NGC 5526	2742	14.7	UMa	1/24/2012	0:59	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	75	A small, brighter, yet dim thin sliver of light.
UGC 7522	2285	14.6	Vir	1/24/2012	2:03	Commanche Springs Astronomy Center, Crowell, TX - Dark Skies	99.95° W	39.98° N	Good	Good	30" f/4.5 Newtonian	DA	134x	0	A very dim, tapered edge on. Middle fatter. Uniformly lit. Bright field star on lower tapered arm at edge.
ESO 505-3	2162	14.6	Crv	5/14/2012	22:11	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	120	Nice. Longer slender <u>very</u> faint linear glow.
IC 3608	2346	14.6	Vir	5/14/2012	22:19	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	105	A very small, thin, linear glow. Very faint.
NGC 5022	2504	14.7	Vir	5/14/2012	22:19	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	0	A tiny, vertical in FOV, <u>very</u> tiny sliver of light. Easy to see.
M 1-33-71	2441	14.6	Vir	5/14/2012	23:31	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	120	An <u>extremely</u> faint glow. Has bit fatter and hare brighter core area and longer arms that are <u>extremely</u> faint.
UGC 8067	2425	14.7	Vir	5/14/2012	23:40	Keota, CO Moderately Dark Sky	40° 41' 2"	104° 4' 34" W	Good	Good	12.5" f/8 Newtonian	DA	169x	75	An <u>extremely</u> dim, small, uniformly lit linear glow.

Honorary
Certificate 103 of 100 Observed

Items in Blue additional objects observed since 73 for Regular Certificate

Abbreviations:

FOV - Field of view
AV - Adverted Vision