

2382	: Count	Name:	Mike Hotka		RA Order			Certificate Numbers:	303	54 - M		
X	Date	Time	Object Name	Type	R.A.	Dec	Size	Mag	Con	H-400	H-II	Hustle
X	3/31/2019	21:53	NGC 4366	Galaxy	12:24.5	+7:3	.9x.6	14.3	Vir			
X	9/24/2016	21:34	NGC 6561	Asterism	18:10.5	-16:43			Sgr			
X	1/18/2015	20:23	NGC 7805	Galaxy	0:01.4	+31:26		13.3	Peg			
X	1/18/2015	20:23	NGC 7806	Galaxy	0:01.5	+31:27	1.9	13.5	Peg			
X	1/7/2012	21:09	NGC 7810	Galaxy	0:02.4	+12:57			Peg			
X	8/11/2002	0:56	NGC 7814	Galaxy	0:03.3	+16:09	2.6	10.6	Peg	X	X	
X	1/18/2015	20:55	NGC 7816	Galaxy	0:03.8	+7:28	1.8	12.8	Psc			
X	8/19/2012	1:16	NGC 7817	Galaxy	0:04.0	+20:45	4.6	11.8	Peg			
X	9/30/2006	0:50	NGC 7832	Galaxy	0:06.6	-3:42	1.7	13.8	Psc		X	
X	1/18/2015	20:05	NGC 12	Galaxy	0:08.7	+4:37	1.9	14.1	Psc			
X	1/18/2005	20:26	NGC 13	Galaxy	0:08.8	+33:26		13.6	And			
X	10/27/2008	19:55	NGC 14	Galaxy	0:08.8	+15:49	4.4	12.1	Peg			
X	8/19/2012	1:12	NGC 16	Galaxy	0:09.1	+27:44		12.0	Peg			
X	9/19/2006	23:06	NGC 23	Galaxy	0:09.9	+25:55	2.3	12.0	Peg		X	
X	9/19/2006	23:18	NGC 24	Galaxy	0:09.9	-24:58		11.5	Scl		X	
X	1/18/2015	20:28	NGC 29	Galaxy	0:10.8	+33:21		12.6	And			
X	1/18/2015	20:06	NGC 36	Galaxy	0:11.4	+6:23	2.4	14.4	Psc			
X	1/18/2015	20:30	NGC 39	Galaxy	0:12.3	+31:03		13.5	And			
X	11/2/2007	21:45	NGC 40	Planetary Nebula	0:13.0	+72:32	0.3	10.7	Cep	X		
X	1/18/2015	21:16	NGC 52	Galaxy	0:14.6	+18:33		13.3	Peg			
X	8/19/2012	3:01	NGC 57	Galaxy	0:15.4	+17:18	4.1	11.6	Psc			
X	12/27/2013	18:21	NGC 61A	Galaxy	0:16.5	-6:14	1.1	14.7	Psc			
X	8/19/2012	1:44	NGC 68	Galaxy	0:18.3	+30:04	62.0	13.0	And			
X	8/19/2012	2:58	NGC 95	Galaxy	0:22.2	+10:30	7.8	12.6	Psc			
X	8/19/2012	1:41	NGC 108	Galaxy	0:25.9	+29:13	2.0	12.1	And			
X	9/30/2006	0:55	NGC 125	Galaxy	0:28.8	+2:50	2.0	12.3	Psc		X	
X	12/28/2008	18:41	NGC 128	Galaxy	0:29.2	+2:51	3.4	11.6	Psc			
X	8/8/2002	0:55	NGC 129	Open Cluster	0:29.9	+60:14	21.0	6.5	Cas	X		
X	12/27/2013	18:34	NGC 132	Galaxy	0:30.2	+2:06	1.7	12.7	Cet			
X	1/18/2015	21:03	NGC 137	Galaxy	0:31.1	+10:11	3.1	12.8	Psc			
X	11/17/2014	18:27	NGC 136	Open Cluster	0:31.5	+61:32	-19:05	1.0	Cas	X		
X	10/1/2005	2:15	NGC 151	Galaxy	0:34.0	-9:42	3.7	11.5	Cet		X	
X	12/27/2013	18:15	NGC 154	Galaxy	0:34.1	-12:39	1.4	13.1	Cet			
X	9/30/2002	23:28	NGC 157	Galaxy	0:34.8	-8:24	4.3	10.4	Cet	X		
X	12/27/2013	18:17	NGC 163	Galaxy	0:36.0	-10:07		12.8	Cet			
X	1/26/2017	20:07	NGC 160	Galaxy	0:36.1	+23:57	1.6	12.4	And			
X	12/27/2013	18:36	NGC 173	Galaxy	0:37.2	+1:56	3.7	13.0	Cet			
X	12/27/2013	18:02	NGC 175	Galaxy	0:37.4	-19:56	2.2	12.1	Cet		X	
X	1/18/2015	21:06	NGC 180	Galaxy	0:38.0	+8:38	2.6	12.9	Psc			
X	11/7/2012	22:12	NGC 182	Galaxy	0:38.2	+2:44	2.3	12.6	Psc			
X	8/18/1990	0:47	NGC 185	Galaxy	0:39.0	+48:20	2.8	9.2	Cas	X		
X	1/16/2015	21:58	NGC 191	Galaxy	0:39.0	-9:00	1.5	13.3	Cet			
X	8/19/2012	3:04	NGC 193	Galaxy	0:39.3	+3:20	1.7	12.3	Psc			
X	8/19/2012	3:04	NGC 194	Galaxy	0:39.3	+3:02	1.9	12.1	Psc			
X	12/27/2013	18:37	NGC 192	Galaxy	0:39.3	+0:51	2.2	12.6	Cet			
X	12/27/2013	18:37	NGC 196	Galaxy	0:39.3	+0:54	1.3	12.9	Cet			
X	11/7/2012	22:12	NGC 198	Galaxy	0:39.4	+2:48	1.3	12.8	Psc		X	
X	11/7/2002	22:12	NGC 200	Galaxy	0:39.6	+2:53	1.8	12.6	Psc			
X	12/27/2013	18:37	NGC 201	Galaxy	0:39.7	+0:51	2.1	12.9	Cet			
X	11/21/1987	19:50	NGC 205	Galaxy	0:40.4	+41:41	13.5	8.0	And	X		
X	9/20/2006	1:08	NGC 206	Knot in Galaxy	0:40.6	+40:44		4.2	And		X	
X	8/19/2012	3:37	NGC 210	Galaxy	0:40.6	-13:52		10.9	Cet			
X	1/18/2015	20:10	NGC 213	Galaxy	0:41.2	+16:28	1.3	13.3	Psc			

X	12/27/2013	5:55	NGC 216	Galaxy	0:41.4	-21:03	5.2	13.3	Cet			
X	10/1/2005	2:03	NGC 217	Galaxy	0:41.5	-10:02	2.8	12.7	Cet		X	
X	9/19/2006	23:10	NGC 214	Galaxy	0:41.5	+25:30	3.0	12.2	And		X	
X	12/27/2013	18:32	NGC 227	Galaxy	0:42.6	-1:32	1.7	12.2	Cet			
X	10/10/2007	22:45	NGC 225	Open Cluster	0:43.4	+61:47	12.0	7.0	Cas	X		
X	8/19/2012	3:28	NGC 234	Galaxy	0:43.4	+14:20	2.3	12.5	Psc			
X	1/18/2015	21:21	NGC 233	Galaxy	0:43.4	+30:35		12.4	And			
X	12/27/2013	18:05	NGC 244	Galaxy	0:45.8	-15:36	1.8	13.3	Cet			
X	8/19/2012	3:39	NGC 245	Galaxy	0:46.1	-1:44	1.2	12.2	Cet			
X	10/1/2005	1:14	NGC 246	Planetary Nebula	0:47.0	-11:53	0.4	10.9	Cet	X		
X	10/27/2008	22:00	NGC 247	Galaxy	0:47.1	-20:46	8.0	8.9	Cet	X		
X	10/18/2009	0:36	NGC 253	Galaxy	0:47.6	-25:17		7.1	Scl	X		
X	8/19/2012	3:47	NGC 255	Galaxy	0:47.8	-11:28	1.7	11.8	Cet			
X	1/18/2015	21:15	NGC 251	Galaxy	0:47.8	+19:34	1.0	13.2	Psc			
X	8/19/2012	1:46	NGC 252	Galaxy	0:48.0	+44:23	2.0	12.3	And			
X	12/27/2013	18:27	NGC 259	Galaxy	0:48.1	-2:47	2.3	12.5	Cet			
X	1/18/2015	21:09	NGC 257	Galaxy	0:48.1	+8:19	2.0	12.6	Psc			
X	8/19/2012	1:37	NGC 266	Galaxy	0:49.8	+32:16	2.0	11.6	Psc			
X	1/19/2012	3:55	NGC 268	Galaxy	0:50.2	-5:12	1.3	13.1	Cet			
X	12/27/2013	18:22	NGC 270	Galaxy	0:50.7	-8:39	2.0	12.1	Cet			
X	12/27/2013	18:30	NGC 271	Galaxy	0:50.8	-1:53	2.3	12.0	Cet			
X	1/16/2015	20:13	NGC 273	Galaxy	0:50.8	-6:53	1.7	12.9	Cet			
X	1/16/2015	20:13	NGC 274	Galaxy	0:51.0	-7:03	1.3	11.8	Cet			
X	1/23/2012	20:07	NGC 278	Galaxy	0:52.1	+47:33	2.2	10.9	Cas	X		
X	12/27/2013	18:29	NGC 279	Galaxy	0:52.3	-2:12	1.6	12.7	Cet			
X	1/18/2015	21:19	NGC 280	Galaxy	0:52.5	+24:20	0.5	13.2	And			
X	10/27/2008	22:11	NGC 288	Globular Cluster	0:52.8	-26:35	13.8	8.1	Scl	X		
X	1/18/2015	20:17	NGC 296	Galaxy	0:55.4	+31:40	1.8	15.0	Psc			
X	10/23/2006	20:21	NGC 315	Galaxy	0:57.8	+30:21	3.6	11.2	Psc		X	
X	10/1/2005	1:50	NGC 337	Galaxy	0:59.8	-7:35	2.8	11.6	Cet		X	
X	12/27/2013	18:26	NGC 352	Galaxy	1:02.1	-4:15	2.3	12.6	Cet			
X	10/1/2005	1:59	NGC 357	Galaxy	1:03.4	-6:20	2.6	11.8	Cet		X	
X	11/7/2012	23:00	NGC 379	Galaxy	1:07.3	+32:31	1.6	12.6	Psc			
X	11/7/2012	22:18	NGC 380	Galaxy	1:07.3	+32:29	2.3	12.5	Psc			
X	9/30/2011	23:00	NGC 383	Galaxy	1:07.4	+32:25	1.2	11.9	Psc			
X	8/9/2002	1:11	NGC 381	Open Cluster	1:08.3	+61:35	6.0	9.3	Cas	X		
X	11/7/2012	22:22	NGC 392	Galaxy	1:08.4	+33:07	1.8	12.7	Psc			
X	8/19/2012	1:48	NGC 393	Galaxy	1:08.6	+39:40	1.7	12.5	And			
X	8/10/2002	2:43	NGC 404	Galaxy	1:09.4	+35:43	2.9	10.1	And	X		
X	1/18/2015	20:10	NGC 407	Galaxy	1:10.6	+33:07	2.3	13.4	Psc			
X	1/18/2015	22:10	NGC 410	Galaxy	1:11.0	+33:09	2.0	11.5	Psc		X	
X	8/19/2012	3:27	NGC 420	Galaxy	1:12.1	+32:06		12.1	Psc			
X	10/1/2005	2:34	NGC 428	Galaxy	1:12.9	+0:59	4.1	11.4	Cet		X	
X	1/16/2015	20:10	NGC 426	Galaxy	1:12.9	-0:17	1.7	12.8	Cet			
X	1/16/2015	20:10	NGC 429	Galaxy	1:13.0	-0:20	1.6	13.4	Cet			
X	1/16/2015	20:10	NGC 430	Galaxy	1:13.1	-0:15	1.8	12.5	Cet			
X	8/19/2012	3:51	NGC 450	Galaxy	1:15.5	-0:52	3.2	12.1	Cet			
X	8/18/1990	2:15	NGC 436	Open Cluster	1:15.6	+58:49	6.0	8.8	Cas	X		
X	1/18/2015	20:14	NGC 459	Galaxy	1:18.0	+17:33	2.6	14.4	Psc			
X	9/29/2006	23:27	NGC 457	Open Cluster	1:19.1	+58:20	13.0	6.4	Cas	X		
X	8/19/2012	20:14	NGC 467	Galaxy	1:19.2	+3:18	2.4	11.9	Psc			
X	8/19/2012	3:13	NGC 470	Galaxy	1:19.7	+3:25	3.0	11.9	Psc			
X	8/19/2012	3:18	NGC 473	Galaxy	1:19.9	+16:33	1.3	12.5	Psc			
X	8/19/2012	3:13	NGC 474	Galaxy	1:20.1	+3:25	7.9	11.1	Psc			
X	1/18/2015	22:22	NGC 477	Galaxy	1:21.3	+40:29	1.8	13.0	And			

X	8/10/2002	3:30	NGC 488	Galaxy	1:21.8	+5:15	5.2	10.3	Psc	X		
X	12/27/2013	18:50	NGC 493	Galaxy	1:22.2	+0:57	3.8	12.5	Cet			
X	8/19/2012	3:30	NGC 495	Galaxy	1:22.9	+33:28	1.6	13.2	Psc			
X	10/23/2006	21:56	NGC 499	Galaxy	1:23.2	+33:28	4.3	12.0	Psc		X	
X	1/18/2015	22:06	NGC 496	Galaxy	1:23.3	+33:33	2.0	13.3	Psc			
X	9/25/2011	0:38	NGC 507	Galaxy	1:23.7	+33:15	1.6	11.2	Psc			
X	1/7/2012	22:28	NGC 508	Galaxy	1:23.7	+33:17	1.3	12.8	Psc			
X	10/23/2006	21:58	NGC 513	Galaxy	1:23.8	+33:49		12.9	And	X	X	
X	9/30/2006	1:28	NGC 514	Galaxy	1:24.1	+12:55	9.1	11.9	Psc	X	X	
X	8/19/2012	3:15	NGC 520	Galaxy	1:24.6	+3:48	4.8	11.2	Psc			
X	12/27/2012	18:45	NGC 521	Galaxy	1:24.6	+1:44	3.5	11.7	Cet			
X	1/18/2015	22:06	NGC 515	Galaxy	1:24.6	+33:29	2.1	13.0	Psc			
X	8/19/2012	3:25	NGC 517	Galaxy	1:24.7	+33:27	0.7	12.4	Psc			
X	1/22/2012	20:37	NGC 524	Galaxy	1:24.8	+9:32	3.2	10.6	Psc	X		
X	1/18/2015	21:12	NGC 532	Galaxy	1:25.3	+9:16	2.6	12.9	Psc			
X	10/30/2015	19:25	NGC 523	Galaxy	1:25.3	+34:02	3.1	12.7	And			
X	8/19/2012	3:49	NGC 533	Galaxy	1:25.5	+1:46	4.1	11.4	Cet			
X	8/10/2010	2:01	NGC 545	Galaxy	1:26.0	-1:20	3.0	12.2	Cet			
X	8/10/2010	2:01	NGC 547	Galaxy	1:26.0	-1:21	1.7	12.3	Cet			
X	1/22/2012	21:50	NGC 536	Galaxy	1:26.4	+34:43		12.3	And			
X	12/27/2013	18:40	NGC 550	Galaxy	1:26.7	+2:01	1.8	12.7	Cet			
X	12/27/2013	18:53	NGC 560	Galaxy	1:27.4	-1:55	2.3	12.9	Cet			
X	8/19/2012	1:51	NGC 551	Galaxy	1:27.6	+37:11	1.4	12.7	And			
X	12/27/2013	18:53	NGC 564	Galaxy	1:27.8	-1:53	1.8	12.5	Cet			
X	8/18/1990	1:25	NGC 559	Open Cluster	1:29.5	+63:18	4.0	9.5	Cas	X		
X	12/27/2013	19:00	NGC 584	Galaxy	1:31.3	-6:52	3.8	10.4	Cet	X		
X	12/27/2013	19:00	NGC 586	Galaxy	1:31.6	-6:54	1.6	13.2	Cet			
X	1/16/2015	21:02	NGC 599	Galaxy	1:32.8	-12:11	1.7	13.7	Cet			
X	9/30/2002	23:56	NGC 596	Galaxy	1:32.9	-7:02	3.5	10.9	Cet	X		
X	1/17/2015	21:21	NGC 600	Galaxy	1:33.1	-7:19	3.5	12.4	Cet			
X	12/21/1987	20:06	NGC 598	Galaxy	1:33.9	+30:39	17.4	5.7	Tri	X		
X	8/10/2002	3:25	NGC 613	Galaxy	1:34.3	-29:25	1.5	10.0	Scl	X		
X	9/30/2006	3:26	NGC 604	Knot in Galaxy	1:34.5	+30:48		1.0	Tri		X	
X	9/30/2002	23:59	NGC 615	Galaxy	1:35.1	-7:20	4.0	11.5	Cet	X		
X	12/27/2013	19:02	NGC 624	Galaxy	1:35.7	-10:00	1.7	12.8	Cet			
X	1/18/2015	22:02	NGC 614	Galaxy	1:35.8	+33:42	2.3	12.7	Tri			
X	12/27/2013	18:49	NGC 622	Galaxy	1:36.0	+0:40	1.9	12.9	Cet			
X	10/1/2005	1:40	NGC 636	Galaxy	1:39.1	-7:31	2.3	11.3	Cet		X	
X	8/10/2002	3:55	NGC 651	Planetary Nebula	1:42.3	+51:35	0.1	10.1	Per	X		
X	8/18/1990	1:20	NGC 637	Open Cluster	1:42.9	+64:00	4.0	8.2	Cas	X		
X	9/25/2016	23:35	NGC 660	Galaxy	1:43.0	+13:38	2.3	10.8	Psc		X	
X	8/1/2008	1:15	NGC 654	Open Cluster	1:44.1	+61:53	5.0	6.5	Cas	X		
X	8/18/1990	2:29	NGC 659	Open Cluster	1:44.2	+60:42	5.0	7.9	Cas	X		
X	8/19/2012	2:12	NGC 661	Galaxy	1:44.2	+28:42	2.5	12.2	Tri			
X	9/20/2006	1:54	NGC 665	Galaxy	1:44.8	+10:26	2.1	12.1	Psc		X	
X	8/18/1990	2:28	NGC 663	Open Cluster	1:46.0	+61:15	16.0	7.1	Cas	X		
X	8/19/2012	3:22	NGC 670	Galaxy	1:47.4	+27:53	3.1	12.1	Tri			
X	10/23/2006	20:29	NGC 672	Galaxy	1:47.9	+27:26	6.6	10.8	Tri		X	
X	8/19/2012	2:39	NGC 673	Galaxy	1:48.4	+11:32		12.6	Ari			
X	8/19/2012	3:10	NGC 676	Galaxy	1:49.0	+5:54	4.6	9.6	Psc			
X	12/27/2013	19:10	NGC 682	Galaxy	1:49.0	-14:59	2.2	12.7	Cet			
X	12/27/2013	19:03	NGC 686	Galaxy	1:49.0	-23:48	1.3	12.4	For			
X	8/19/2012	3:45	NGC 681	Galaxy	1:49.2	-10:26	1.9	11.8	Cet			
X	8/19/2012	2:31	NGC 678	Galaxy	1:49.4	+22:00	2.7	12.2	Ari			
X	8/19/2012	1:33	NGC 679	Galaxy	1:49.7	+35:47	1.6	12.4	And			

X	8/19/2012	2:31	NGC 680	Galaxy	1:49.8	+21:58	1.6	11.9	Ari			
X	8/19/2012	2:14	NGC 684	Galaxy	1:50.2	+27:39	3.3	12.3	Tri			
X	12/27/2013	18:41	NGC 693	Galaxy	1:50.5	+6:09	2.9	12.4	Psc			
X	8/10/2010	1:09	NGC 687	Galaxy	1:50.6	+36:21	1.5	12.3	And			
X	8/19/2012	2:23	NGC 691	Galaxy	1:50.7	+21:46	0.5	11.4	Ari			
X	12/27/2013	19:18	NGC 701	Galaxy	1:51.1	-9:42	2.5	12.2	Cet			
X	1/18/2015	21:28	NGC 695	Galaxy	1:51.2	+22:35	3.1	12.8	Ari			
X	8/19/2012	2:35	NGC 697	Galaxy	1:51.3	+22:21	1.0	12.0	Ari			
X	12/27/2013	18:55	NGC 702	Galaxy	1:51.3	-4:03	1.7	13.1	Cet			
X	9/20/2006	1:45	NGC 706	Galaxy	1:51.8	+6:18	1.9	12.5	Psc		X	
X	8/10/2010	1:09	NGC 704	Galaxy	1:52.7	+36:06		1.1	And			
X	8/10/2010	1:09	NGC 703	Galaxy	1:52.8	+36:09	13.1	13.3	And			
X	8/10/2010	1:09	NGC 705	Galaxy	1:52.8	+36:08	3.0	13.6	And			
X	8/10/2010	1:09	NGC 708	Galaxy	1:52.8	+36:10	1.7	12.7	And			
X	10/1/2002	0:02	NGC 720	Galaxy	1:53.0	-13:44	4.4	10.2	Cet	X		
X	9/20/2006	1:34	NGC 718	Galaxy	1:53.2	+4:12	2.8	11.7	Psc		X	
X	12/27/2012	19:05	NGC 723	Galaxy	1:53.9	-23:46	5.5	12.4	Cet			
X	12/27/2013	19:20	NGC 731	Galaxy	1:54.9	-9:01	1.7	12.1	Cet			
X	9/20/2006	1:40	NGC 741	Galaxy	1:56.4	+5:38	3.2	11.3	Psc		X	
X	12/27/2013	18:56	NGC 748	Galaxy	1:56.4	-4:28	2.9	12.6	Cet			
X	12/27/2013	19:21	NGC 755	Galaxy	1:56.4	-9:04	4.0	12.6	Cet			
X	12/27/2013	18:43	NGC 742	Galaxy	1:56.5	+5:38	0.2	14.3	Psc			
X	1/18/2015	21:59	NGC 735	Galaxy	1:56.6	+34:11	9.8	13.3	Tri			
X	8/19/2012	2:10	NGC 736	Galaxy	1:56.7	+33:03	1.6	12.2	Tri			
X	8/1/2008	1:55	NGC 740	Galaxy	1:56.9	+33:01	1.6	14.0	Tri			
X	12/27/2013	1:58	NGC 762	Galaxy	1:57.1	-5:26	1.5	13.5	Cet			
X	8/19/2012	2:08	NGC 750	Galaxy	1:57.5	+33:13	2.8	12.2	Tri			
X	8/1/2008	1:51	NGC 752	Open Cluster	1:57.8	+37:41	50.0	5.7	And	X		
X	12/27/2013	19:11	NGC 773	Galaxy	1:59.0	-11:31	1.3	13.2	Cet			
X	8/10/2002	3:33	NGC 772	Galaxy	1:59.3	+19:01	7.1	10.3	Ari	X		
X	1/18/2015	21:53	NGC 774	Galaxy	1:59.4	+14:01	1.6	13.0	Ari			
X	12/28/2002	18:46	NGC 779	Galaxy	1:59.7	-5:58	4.1	11.0	Cet	X		
X	5/11/2010	23:08	NGC 3091	Galaxy	10:00.2	-19:38	3.1	11.0	Hya			
X	3/17/2007	21:17	NGC 3073	Galaxy	10:00.9	+55:37		13.4	UMa		X	
X	1/17/2015	0:03	NGC 3088A	Galaxy	10:01.1	+22:24	1.5	13.7	Leo			
X	3/17/2007	22:22	NGC 3065	Galaxy	10:01.9	+72:10	1.1	12.5	UMa		X	
X	1/23/2012	22:56	NGC 3079	Galaxy	10:02.0	+55:41	9.3	10.6	UMa	X		
X	3/17/2007	20:45	NGC 3066	Galaxy	10:02.2	+72:07	3.2	12.9	UMa			
X	1/16/2015	23:52	NGC 3099A	Galaxy	10:02.7	+32:42			LMi			
X	4/26/2003	23:03	NGC 3077	Galaxy	10:03.3	+68:44	3.9	9.9	UMa	X		
X	4/1/2005	21:12	NGC 3107	Galaxy	10:03.3	+13:38	1.4	13.4	Leo		X	
X	2/24/2009	19:33	NGC 3104	Galaxy	10:03.9	+40:45		13.1	LMi			
X	1/27/2017	21:19	NGC 3106	Galaxy	10:03.9	+31:11	3.8	12.4	LMi			
X	1/26/2017	0:47	NGC 3102	Galaxy	10:04.6	+60:07		13.3	UMa			
X	1/23/2012	1:02	NGC 3115	Galaxy	10:05.2	-7:43	8.1	8.9	Sex	X		
X	1/25/2017	22:39	NGC 3057	Galaxy	10:05.6	+80:17		13.0	Dra			
X	1/17/2015	23:56	NGC 3122	Galaxy	10:06.5	-6:32	0.5'x0.2'		Sex			
X	3/11/2007	22:57	NGC 3145	Galaxy	10:10.2	-12:26		11.7	Hya		X	
X	2/25/2006	1:10	NGC 3156	Galaxy	10:12.7	+3:08	1.8	12.3	Sex		X	
X	3/28/2014	22:21	NGC 3153	Galaxy	10:12.9	+12:40	1.8	12.7	Leo			
X	3/5/2005	23:25	NGC 3162	Galaxy	10:13.5	+22:44	4.2	11.6	Leo		X	
X	2/25/2006	1:00	NGC 3166	Galaxy	10:13.8	+3:26	5.2	10.6	Sex	X		
X	1/23/2012	22:02	NGC 3158	Galaxy	10:13.8	+38:46	1.4	11.8	LMi		X	
X	1/23/2012	22:02	NGC 3163	Galaxy	10:14.1	+38:39	1.1	13.1	LMi			
X	2/25/2006	22:19	NGC 3169	Galaxy	10:14.2	+3:28	4.8	10.5	Sex	X		

X	1/25/2017	22:43	NGC 3197	Galaxy	10:14.4	+77:49		13.5	Dra			
X	1/25/2017	22:54	NGC 3144	Galaxy	10:15.5	+74:13		13.4	Dra			
X	3/5/2005	23:33	NGC 3177	Galaxy	10:16.6	+21:07		12.4	Leo		X	
X	8/10/2002	0:37	NGC 3147	Galaxy	10:16.9	+73:24	4.3	10.6	Dra	X		
X	4/21/2009	22:12	NGC 3190	Galaxy	10:18.1	+21:50	2.5	11.2	Leo	X		
X	1/23/2012	21:39	NGC 3184	Galaxy	10:18.3	+41:25	6.9	9.8	UMa	X		
X	3/5/2005	23:33	NGC 3193	Galaxy	10:18.4	+21:54	3.4	10.9	Leo	X		
X	1/16/2015	23:58	NGC 3196	Galaxy	10:18.8	+27:40	0.9	14.7	Leo			
X	3/15/2018	21:28	NGC 3192	Galaxy	10:19.0	+46:27	2.4	15.0	UMa			
X	5/28/2014	22:37	NGC 3182	Galaxy	10:19.5	+58:12	2.6	12.1	UMa			
X	1/17/2015	0:35	NGC 3188	Galaxy	10:19.7	+57:25	1.2	13.7	UMa			
X	3/12/2010	20:24	NGC 3198	Galaxy	10:19.9	+45:33	9.2	10.3	UMa	X		X
X	4/8/2010	20:40	NGC 3202	Galaxy	10:20.5	+43:01	1.4	13.2	UMa			
X	4/8/2010	20:40	NGC 3205	Galaxy	10:20.8	+42:57	1.3	13.2	UMa			
X	4/8/2010	20:40	NGC 3207	Galaxy	10:21.0	+42:58	2.1	13.2	UMa			
X	1/17/2015	0:01	NGC 3216	Galaxy	10:21.7	+23:54	2.8	13.4	Leo			
X	5/28/2014	22:40	NGC 3206	Galaxy	10:21.8	+56:56	1.6	11.9	UMa			
X	1/2/2019	20:45	NGC 3155	Galaxy	10:23.0	+74:47		12.8	Dra			
X	6/11/1988	22:45	NGC 3226	Galaxy	10:23.4	+19:54	6.9	11.4	Leo	X		
X	6/11/1988	22:45	NGC 3227	Galaxy	10:23.5	+19:52			Leo	X		
X	1/26/2017	1:02	NGC 3220	Galaxy	10:23.7	+57:02		13.0	UMa			
X	5/10/2010	23:12	NGC 3242	Planetary Nebula	10:24.8	-18:38	20.8	7.8	Hya	X		
X	3/17/2007	21:11	NGC 3225	Galaxy	10:25.1	+58:09	1.3	12.6	UMa		X	
X	2/24/2009	23:08	NGC 3239	Galaxy	10:25.1	+17:10		11.3	Leo			
X	1/26/2017	22:06	NGC 3237	Galaxy	10:25.8	+39:39	1.6	13.0	UMa			
X	1/25/2017	22:56	NGC 3183	Galaxy	10:26.5	+74:39	2.0	11.9	Dra			
X	1/26/2017	1:00	NGC 3238	Galaxy	10:26.7	+57:14	0.9	12.9	UMa			
X	1/25/2017	22:41	NGC 3210	Galaxy	10:27.2	+79:51			Dra			
X	1/22/2012	22:31	NGC 3245	Galaxy	10:27.3	+28:30	2.9	10.8	LMi	X		X
X	1/18/2015	4:22	NGC 3248	Galaxy	10:27.8	+22:50	1.3	12.4	Leo			
X	1/25/2017	22:41	NGC 3212	Galaxy	10:28.1	+79:47		13.1	Dra			
X	1/25/2017	22:41	NGC 3215	Galaxy	10:29.0	+79:46		13.0	Dra			
X	4/20/2006	23:36	NGC 3254	Galaxy	10:29.3	+29:30	5.1	11.5	LMi		X	
X	1/27/2017	21:21	NGC 3265	Galaxy	10:31.1	+28:48	1.1	12.9	LMi			X
X	1/18/2015	4:26	NGC 3270	Galaxy	10:31.5	+24:51	1.6	13.1	Leo			
X	4/20/2006	23:41	NGC 3274	Galaxy	10:32.3	+27:40	2.2	12.8	Leo		X	X
X	1/20/2012	23:15	NGC 3259	Galaxy	10:32.6	+65:03	1.4	12.1	UMa			
X	4/26/2003	1:16	NGC 3277	Galaxy	10:32.9	+28:31	1.5	11.7	LMi	X		X
X	1/25/2017	23:15	NGC 3266	Galaxy	10:33.3	+64:45	1.8	12.4	UMa			
X	1/25/2017	22:58	NGC 3252	Galaxy	10:34.4	+73:46	1.3	13.5	Dra			
X	4/26/2003	1:18	NGC 3294	Galaxy	10:36.3	+37:20	3.5	11.8	LMi	X		
X	1/26/2017	0:59	NGC 3286	Galaxy	10:36.3	+58:37		13.6	UMa			
X	3/28/2014	22:23	NGC 3299	Galaxy	10:36.4	+12:42	1.8	12.8	Leo			
X	1/17/2015	0:37	NGC 3288	Galaxy	10:36.4	+58:33		14.0	UMa			
X	3/28/2014	22:25	NGC 3300	Galaxy	10:36.6	+14:10		12.1	Leo			
X	4/1/2005	21:26	NGC 3301	Galaxy	10:36.9	+21:53	2.6	11.4	Leo		X	
X	1/17/2015	0:05	NGC 3303	Galaxy	10:37.1	+18:08	1.0	13.5	Leo			
X	1/17/2015	0:30	NGC 3298	Galaxy	10:37.2	+50:06		14.0	UMa			
X	1/26/2017	22:01	NGC 3304	Galaxy	10:37.6	+37:27	4.1	13.4	LMi			
X	1/23/2012	21:19	NGC 3310	Galaxy	10:38.7	+53:30		10.8	UMa	X		
X	4/21/2006	0:59	NGC 3319	Galaxy	10:39.2	+41:41	1.3	11.1	UMa		X	
X	5/28/2014	22:53	NGC 3320	Galaxy	10:39.6	+47:24	2.6	12.3	UMa			
X	1/18/2015	4:33	NGC 3327	Galaxy	10:40.0	+24:05	1.8	13.4	LMi			
X	3/28/2014	22:40	NGC 3332	Galaxy	10:40.4	+9:11	1.4	12.3	Leo			
X	1/26/2017	22:00	NGC 3334	Galaxy	10:41.4	+37:18	1.3	12.8	LMi			

X	4/1/2005	21:38	NGC 3338	Galaxy	10:42.1	+13:45	2.3	11.1	Leo		X	
X	1/26/2017	23:20	NGC 3344	Galaxy	10:43.5	+24:55	6.9	9.9	LMi	X		
X	3/28/2014	22:29	NGC 3346	Galaxy	10:43.7	+14:52	14.0	11.7	Leo			
X	3/28/2014	22:44	NGC 3356	Galaxy	10:44.2	+6:45	1.6	13.3	Leo			
X	9/28/2016	21:11	NGC 3329	Galaxy	10:44.7	+76:49	5.0	12.2	Dra			
X	5/28/2014	22:43	NGC 3353	Galaxy	10:45.4	+55:58		12.8	UMa			
X	1/25/2017	23:05	NGC 3343	Galaxy	10:46.1	+73:21	1.6	13.4	Dra			
X	3/17/2007	21:09	NGC 3359	Galaxy	10:46.6	+63:13		10.6	UMa		X	
X	3/28/2014	22:28	NGC 3367	Galaxy	10:46.6	+13:45		11.5	Leo			
X	3/28/2014	22:31	NGC 3370	Galaxy	10:47.1	+17:16	2.6	11.6	Leo			
X	1/25/2017	23:10	NGC 3348	Galaxy	10:47.2	+72:50	2.0	11.2	UMa			
X	4/9/2010	0:52	NGC 3377	Galaxy	10:47.7	+13:59	2.4	10.4	Leo	X		
X	2/12/2000	23:20	NGC 3379	Galaxy	10:47.8	+12:35	3.9	9.3	Leo	X		
X	1/26/2017	22:41	NGC 3374	Galaxy	10:47.9	+43:10	0.8	13.7	UMa			
X	1/27/2017	21:26	NGC 3380	Galaxy	10:48.2	+28:36	1.1	12.5	LMi			X
X	3/12/2010	0:52	NGC 3384	Galaxy	10:48.3	+12:38	5.5	9.9	Leo	X		
X	1/26/2017	20:03	NGC 3381	Galaxy	10:48.4	+34:42	4.8	11.7	LMi			
X	3/12/2010	23:20	NGC 3389	Galaxy	10:48.5	+12:32	1.9	11.8	Leo			
X	1/25/2017	23:11	NGC 3364	Galaxy	10:48.5	+72:25		12.8	UMa			
X	4/26/2003	1:24	NGC 3395	Galaxy	10:49.8	+32:59	1.6	12.1	LMi	X		
X	3/5/2002	22:56	NGC 3396	Galaxy	10:49.9	+32:59	3.4	12.1	LMi			
X	3/25/2014	23:59	NGC 3411	Galaxy	10:50.3	-12:51	2.2	11.9	Hya			
X	1/25/2017	23:17	NGC 3394	Galaxy	10:50.6	+65:43	2.2	12.4	UMa			
X	1/27/2017	21:30	NGC 3400	Galaxy	10:50.8	+28:28	3.0	13.2	LMi			X
X	4/25/2003	23:27	NGC 3412	Galaxy	10:50.9	+13:25	3.3	10.5	Leo	X		
X	1/17/2015	23:17	NGC 3392	Galaxy	10:51.0	+65:46		13.7	UMa			
X	3/28/2014	22:45	NGC 3423	Galaxy	10:51.2	+5:50	3.9	11.1	Sex			
X	4/26/2003	1:27	NGC 3414	Galaxy	10:51.3	+27:59	1.1	11.0	LMi	X		X
X	3/5/2005	22:56	NGC 3413	Galaxy	10:51.3	+32:46		12.1	LMi			
X	1/27/2017	21:32	NGC 3418	Galaxy	10:51.3	+28:07	1.7	13.2	LMi			X
X	1/18/2015	3:34	NGC 3425	Galaxy	10:51.4	+8:34	1.1	13.1	Leo			
X	1/27/2017	20:28	NGC 3398	Galaxy	10:51.5	+55:23		14.4	UMa			
X	1/26/2017	22:44	NGC 3415	Galaxy	10:51.7	+43:43	2.5	12.7	UMa			
X	3/28/2014	22:56	NGC 3424	Galaxy	10:51.8	+32:54	2.5	12.4	LMi		X	
X	3/28/2014	22:47	NGC 3434	Galaxy	10:52.0	+3:48	2.1	12.1	Leo			
X	3/28/2014	22:38	NGC 3433	Galaxy	10:52.1	+10:09	0.8	11.6	Leo			
X	3/5/2005	22:56	NGC 3430	Galaxy	10:52.2	+32:57	4.1	11.6	LMi		X	
X	1/26/2017	0:56	NGC 3408	Galaxy	10:52.2	+58:26		13.4	UMa			
X	1/17/2015	1:03	NGC 3407	Galaxy	10:52.3	+61:23		13.6	UMa			
X	4/26/2003	1:31	NGC 3432	Galaxy	10:52.5	+36:37	6.9	11.2	LMi	X		
X	5/27/2014	23:02	NGC 3437	Galaxy	10:52.6	+22:56	2.6	12.1	Leo			
X	1/25/2017	23:08	NGC 3403	Galaxy	10:53.9	+73:41	2.1	12.2	Dra			
X	1/27/2017	20:30	NGC 3440	Galaxy	10:53.9	+57:07		13.2	UMa			
X	3/25/2014	23:34	NGC 3456	Galaxy	10:54.1	-16:02		12.4	Crt			
X	5/27/2014	23:05	NGC 3451	Galaxy	10:54.4	+27:14	3.8	13.0	LMi			X
X	1/23/2012	1:49	NGC 3455	Galaxy	10:54.5	+17:17	2.0	12.0	Leo			
X	2/24/2009	22:07	NGC 3445	Galaxy	10:54.6	+56:59	1.4	12.6	UMa			
X	2/24/2009	22:11	NGC 3448	Galaxy	10:54.7	+54:19	1.6	12.1	UMa			
X	1/26/2017	0:50	NGC 3435	Galaxy	10:54.8	+61:18	1.6	13.2	UMa			
X	3/28/2014	22:42	NGC 3462	Galaxy	10:55.3	+7:42	1.7	12.2	Leo			
X	5/28/2014	22:46	NGC 3458	Galaxy	10:56.0	+57:07	1.9	12.2	UMa			
X	1/26/2017	22:10	NGC 3468	Galaxy	10:57.4	+40:57	1.5	13.0	UMa			
X	1/17/2015	0:08	NGC 3473	Galaxy	10:58.0	+17:07	1.0	13.6	Leo			
X	1/18/2015	4:43	NGC 3475	Galaxy	10:58.3	+24:14	1.4	13.1	Leo			
X	1/26/2017	0:53	NGC 3470	Galaxy	10:58.7	+59:31		13.2	UMa			

X	5/28/2014	22:49	NGC 3471	Galaxy	10:59.1	+61:32		12.5	UMa			
X	1/25/2017	22:51	NGC 3465	Galaxy	10:59.3	+75:12		13.5	Dra			
X	5/28/2014	22:57	NGC 3478	Galaxy	10:59.5	+46:07	1.5	12.9	UMa			
X	3/24/2014	21:44	NGC 3485	Galaxy	11:00.0	+14:50	3.7	11.6	Leo			
X	4/25/2003	23:32	NGC 3489	Galaxy	11:00.3	+13:54	4.0	10.3	Leo	X		
X	4/26/2003	1:33	NGC 3486	Galaxy	11:00.4	+28:58	6.6	10.5	LMi	X		X
X	1/27/2017	23:42	NGC 3491	Galaxy	11:00.6	+12:10	1.2	13.2	Leo			
X	3/28/2014	22:48	NGC 3495	Galaxy	11:01.3	+3:38	4.4	11.8	Leo			
X	1/27/2017	20:33	NGC 3488	Galaxy	11:01.4	+57:41	3.2	12.9	UMa			
X	1/25/2017	22:51	NGC 3500	Galaxy	11:01.7	+75:13			Dra			
X	1/25/2017	22:51	NGC 3523	Galaxy	11:02.8	+75:08	1.6	12.8	Dra			
X	1/28/2017	2:40	NGC 3508	Galaxy	11:02.9	-16:18	2.2	13.2	Crt			
X	3/28/2014	22:37	NGC 3506	Galaxy	11:03.2	+11:05	1.6	12.5	Leo			
X	1/17/2015	0:14	NGC 3504	Galaxy	11:03.2	+27:58	2.3	10.9	LMi	X		X
X	1/27/2017	20:37	NGC 3499	Galaxy	11:03.2	+56:13		13.6	UMa			
X	3/12/2007	0:42	NGC 3511	Galaxy	11:03.4	-23:05	2.9	11.0	Crt		X	
X	4/20/2006	22:11	NGC 3507	Galaxy	11:03.5	+18:08		10.9	Leo		X	
X	3/27/2014	21:42	NGC 3510	Galaxy	11:03.7	+28:53	1.7	12.2	LMi			X
X	3/12/2007	0:42	NGC 3513	Galaxy	11:03.8	-23:15	17.0	11.5	Crt		X	
X	3/27/2014	21:44	NGC 3512	Galaxy	11:04.0	+28:02	1.2	12.4	LMi			X
X	1/18/2015	3:17	NGC 3509	Galaxy	11:04.4	+4:50	1.9	12.7	Leo			
X	1/27/2017	20:46	NGC 3517	Galaxy	11:05.6	+56:31	1.9	13.0	UMa			
X	5/10/2010	23:25	NGC 3521	Galaxy	11:05.8	-0:02	12.5	9.0	Leo	X		
X	4/20/2006	23:04	NGC 3524	Galaxy	11:06.5	+11:24	0.6	12.8	Leo		X	
X	3/17/2007	20:52	NGC 3516	Galaxy	11:06.8	+72:34	1.7	11.7	UMa		X	
X	1/17/2015	0:17	NGC 3527	Galaxy	11:07.3	+28:32	1.0	13.7	UMa			X
X	1/18/2018	3:24	NGC 3535	Galaxy	11:08.5	+4:50	1.1	13.5	Leo			
X	1/27/2017	20:49	NGC 3530	Galaxy	11:08.7	+57:14		13.8	UMa			
X	4/20/2006	23:02	NGC 3547	Galaxy	11:09.9	+10:43	3.1	12.8	Leo		X	
X	1/28/2017	1:32	NGC 3550	Galaxy	11:10.6	+28:46	0.6	13.3	UMa			X
X	1/28/2017	1:32	NGC 3552	Galaxy	11:10.6	+28:42	2.0	13.8	UMa			X
X	1/28/2017	0:43	NGC 3559	Galaxy	11:10.7	+12:01	1.0	12.7	Leo			
X	1/17/2015	0:46	NGC 3543	Galaxy	11:10.8	+61:22		14.1	UMa			
X	5/28/2014	23:09	NGC 3549	Galaxy	11:10.9	+53:23	8.7	12.1	UMa			
X	1/18/2015	3:29	NGC 3567	Galaxy	11:11.3	+5:50	1.1	13.2	Leo			
X	5/12/1988	1:05	NGC 3556	Galaxy	11:11.5	+55:40	7.6	10.0	UMa	X		
X	3/28/2014	22:59	NGC 3571	Galaxy	11:11.5	-18:17	14.3	12.1	Crt			
X	1/25/2017	23:24	NGC 3562	Galaxy	11:12.9	+72:53	1.9	12.2	Dra			
X	5/10/2010	22:54	NGC 3585	Galaxy	11:13.3	-26:45	10.0		Hya		X	
X	1/17/2015	1:28	NGC 3577	Galaxy	11:13.8	+48:16	3.0	13.4	UMa			
X	1/28/2017	2:32	NGC 3591	Galaxy	11:14.1	-14:04	1.7	13.1	Crt			
X	3/17/2007	21:56	NGC 3583	Galaxy	11:14.2	+48:19	4.2	11.1	UMa		X	
X	4/25/2003	23:41	NGC 3593	Galaxy	11:14.6	+12:49	5.3	10.9	Leo	X		
X	4/1/2005	21:44	NGC 3596	Galaxy	11:15.1	+14:47	1.7	11.2	Leo		X	
X	1/17/2015	0:52	NGC 3589	Galaxy	11:15.2	+60:42		13.8	UMa			
X	2/25/2006	1:34	NGC 3599	Galaxy	11:15.4	+18:07	4.6	11.9	Leo		X	
X	5/28/2014	23:02	NGC 3595	Galaxy	11:15.4	+47:27	1.0	12.1	UMa			
X	3/15/2018	21:31	NGC 3600	Galaxy	11:15.8	+41:36	2.0	11.7	UMa			
X	1/17/2015	1:06	NGC 3594	Galaxy	11:16.1	+55:42		13.7	UMa			
X	2/25/2006	1:34	NGC 3605	Galaxy	11:16.8	+18:01	2.8	12.3	Leo		X	
X	4/25/2003	23:44	NGC 3607	Galaxy	11:16.9	+18:03	2.7	9.9	Leo	X		
X	4/25/2003	23:44	NGC 3608	Galaxy	11:17.0	+18:09	2.6	10.8	Leo	X		
X	4/1/2005	22:24	NGC 3611	Galaxy	11:17.5	+4:33	2.5	12.2	Leo		X	
X	1/3/2017	1:15	NGC 3615	Galaxy	11:18.0	+23:24	0.9	12.8	Leo			
X	5/10/2010	22:58	NGC 3621	Galaxy	11:18.3	-32:49	3.8	8.9	Hya	X		

X	5/28/2014	23:00	NGC 3614	Galaxy	11:18.3	+45:45	5.6	11.6	UMa			
X	1/25/2017	23:23	NGC 3610	Galaxy	11:18.4	+58:47	3.4	10.8	UMa	X		
X	1/28/2017	1:15	NGC 3618	Galaxy	11:18.5	+23:29	1.1	13.6	Leo			
X	4/27/2003	0:16	NGC 3613	Galaxy	11:18.6	+58:00		10.9	UMa	X		
X	1/27/2017	20:52	NGC 3619	Galaxy	11:19.4	+57:46	5.7	11.5	UMa	X		
X	4/25/2003	23:54	NGC 3626	Galaxy	11:20.1	+18:21	1.8	11.0	Leo	X		
X	3/17/2007	22:21	NGC 3622	Galaxy	11:20.2	+67:15	1.6	13.2	UMa		X	
X	5/12/1988	22:12	NGC 3628	Galaxy	11:20.3	+13:36	40.0	9.5	Leo	X		
X	5/24/2006	21:55	NGC 3636	Galaxy	11:20.4	-10:17	1.7	12.4	Crt		X	
X	3/27/2014	21:38	NGC 3629	Galaxy	11:20.5	+26:58	1.5	12.1	Leo			
X	1/27/2017	20:52	NGC 3625	Galaxy	11:20.5	+57:47	1.5	13.1	UMa			
X	5/25/2006	22:55	NGC 3637	Galaxy	11:20.7	-10:16		12.7	Crt		X	
X	1/27/2017	23:30	NGC 3631	Galaxy	11:21.0	+53:10	2.8	10.4	UMa	X		
X	4/25/2003	23:59	NGC 3640	Galaxy	11:21.1	+3:14	4.6	10.4	Leo	X		
X	1/18/2015	1:41	NGC 3645	Galaxy	11:21.6	+2:59		14.1	Leo			
X	4/20/2006	21:58	NGC 3646	Galaxy	11:21.7	+20:10	1.5	11.1	Leo		X	
X	1/17/2015	0:11	NGC 3649	Galaxy	11:22.2	+20:13		13.7	Leo			
X	4/21/2006	1:42	NGC 3642	Galaxy	11:22.3	+59:05	1.9	11.2	UMa		X	
X	1/28/2017	1:23	NGC 3651	Galaxy	11:22.4	+24:18	0.9	13.2	Leo			
X	1/16/2015	23:36	NGC 3653	Galaxy	11:22.5	+24:16	1.2	13.6	Leo			
X	1/25/2017	23:25	NGC 3652	Galaxy	11:22.6	+37:46		12.2	UMa		X	
X	4/26/2003	0:01	NGC 3655	Galaxy	11:22.9	+16:35	1.5	11.7	Leo	X		
X	2/24/2009	22:28	NGC 3656	Galaxy	11:23.6	+53:51	3.2	12.5	UMa			
X	4/7/2013	23:35	NGC 3660	Galaxy	11:23.6	-8:40	2.9	13.2	Crt			
X	1/28/2017	2:34	NGC 3661	Galaxy	11:23.7	-13:48	1.4	14.0	Crt			
X	4/20/2006	22:30	NGC 3659	Galaxy	11:23.8	+17:49	1.0	12.3	Leo		X	
X	1/18/2015	3:12	NGC 3662	Galaxy	11:23.8	-1:06	1.4	12.9	Leo			
X	5/28/2014	23:07	NGC 3657	Galaxy	11:23.9	+52:55		12.4	UMa			
X	1/25/2017	23:25	NGC 3658	Galaxy	11:24.0	+38:34		12.2	UMa			
X	1/25/2017	23:19	NGC 3654	Galaxy	11:24.1	+69:26	2.3	12.7	UMa			
X	3/26/2014	0:15	NGC 3667A	Galaxy	11:24.3	-13:49	3.7	12.7	Crt			
X	4/1/2005	22:03	NGC 3666	Galaxy	11:24.4	+11:21	4.1	12.0	Leo		X	
X	4/27/2003	0:23	NGC 3665	Galaxy	11:24.7	+38:46	3.0	10.8	UMa	X		
X	1/28/2017	1:20	NGC 3670	Galaxy	11:24.7	+23:57	0.7	13.5	Leo			
X	3/6/2005	1:14	NGC 3672	Galaxy	11:25.0	-9:48	3.9	11.4	Crt		X	
X	4/21/2006	1:19	NGC 3669	Galaxy	11:25.4	+57:43	2.3	12.4	UMa		X	
X	3/17/2007	22:07	NGC 3668	Galaxy	11:25.5	+63:27	4.1	12.3	UMa		X	
X	1/17/2015	0:55	NGC 3671	Galaxy	11:25.8	+60:29		14.6	UMa			
X	5/12/2010	22:45	NGC 3675	Galaxy	11:26.1	+43:35	6.2	10.2	UMa	X		
X	1/18/2015	1:45	NGC 3679	Galaxy	11:26.2	-5:35	1.1	14.0	Leo			
X	5/28/2014	23:16	NGC 3674	Galaxy	11:26.4	+57:03	1.7	12.2	UMa			
X	4/20/2006	22:23	NGC 3681	Galaxy	11:26.5	+16:52	2.8	11.2	Leo		X	
X	4/21/2006	1:16	NGC 3683	Galaxy	11:27.5	+56:53	2.5	12.4	UMa		X	
X	4/26/2003	0:03	NGC 3686	Galaxy	11:27.7	+17:13	2.3	11.3	Leo	X		
X	3/17/2007	22:16	NGC 3682	Galaxy	11:27.7	+66:35	2.5	12.5	Dra		X	
X	3/27/2014	21:34	NGC 3687	Galaxy	11:28.0	+29:31		12.0	UMa			
X	4/20/2006	23:48	NGC 3689	Galaxy	11:28.2	+25:40	2.6	12.3	Leo		X	
X	3/12/2007	0:50	NGC 3693	Galaxy	11:28.2	-13:10	1.7	12.3	Crt		X	
X	1/28/2017	0:01	NGC 3691	Galaxy	11:28.2	+16:55	3.3	11.8	Leo			
X	3/28/2014	0:15	NGC 3692	Galaxy	11:28.4	+9:24	2.8	12.1	Leo			
X	2/24/2009	22:30	NGC 3690	Galaxy	11:28.5	+58:33	2.0	11.5	UMa			
X	1/28/2017	1:27	NGC 3701	Galaxy	11:29.4	+24:05	1.0	12.9	Leo			
X	4/1/2005	22:16	NGC 3705	Galaxy	11:30.1	+9:17	4.6	11.1	Leo		X	
X	1/28/2017	2:02	NGC 3710	Galaxy	11:31.0	+22:46	0.8	13.1	Leo			
X	3/26/2014	0:12	NGC 3715	Galaxy	11:31.5	-14:12	1.2	11.1	Crt			

X	1/28/2017	1:43	NGC 3713	Galaxy	11:31.6	+28:09	2.4	13.2	Leo			X
X	1/28/2017	1:43	NGC 3714	Galaxy	11:31.8	+28:22	1.8	14.1	UMa			X
X	1/25/2017	23:29	NGC 3752	Galaxy	11:32.5	+74:38	2.1	12.8	Dra			
X	4/7/2003	0:40	NGC 3718	Galaxy	11:32.6	+53:04	3.1	10.5	UMa			
X	1/28/2017	1:57	NGC 3728	Galaxy	11:33.2	+24:27	1.1	14.8	Leo			
X	5/12/2010	0:35	NGC 3726	Galaxy	11:33.3	+47:02	3.0	10.4	UMa	X		
X	1/26/2017	21:46	NGC 3725	Galaxy	11:33.7	+61:53	2.1	13.0	UMa			
X	4/27/2003	0:40	NGC 3729	Galaxy	11:33.8	+53:08	4.6	11.4	UMa	X		
X	5/24/2006	22:07	NGC 3732	Galaxy	11:34.2	-9:51	1.4	12.5	Crt		X	
X	1/28/2017	0:54	NGC 3731	Galaxy	11:34.2	+12:32	1.4	12.9	Leo			
X	1/28/2017	2:37	NGC 3734	Galaxy	11:34.7	-14:06		13.7	Crt			
X	5/12/2010	23:25	NGC 3733	Galaxy	11:35.0	+54:51		12.4	UMa			
X	5/12/2010	23:25	NGC 3737	Galaxy	11:35.6	+54:57		12.8	UMa			
X	5/12/2010	23:25	NGC 3738	Galaxy	11:35.8	+54:31	4.4	11.7	UMa			
X	9/28/2016	21:08	NGC 3735	Galaxy	11:36.0	+70:32	5.1	11.8	Dra			
X	1/17/2015	1:42	NGC 3740	Galaxy	11:36.2	+59:59		14.2	UMa			
X	4/21/2006	1:09	NGC 3756	Galaxy	11:36.8	+54:18	1.6	11.5	UMa		X	
X	5/28/2014	23:29	NGC 3757	Galaxy	11:37.1	+58:26		12.6	UMa			
X	1/28/2017	3:10	NGC 3768	Galaxy	11:37.2	+17:51	1.1	12.4	Leo			
X	5/28/2014	23:42	NGC 3762	Galaxy	11:37.5	+61:46	1.0	12.6	UMa			
X	2/24/2009	22:45	NGC 3769	Galaxy	11:37.7	+47:54	1.3	11.8	UMa			
X	1/28/2017	2:05	NGC 3772	Galaxy	11:37.8	+22:42	2.3	13.5	Leo			
X	5/28/2014	23:36	NGC 3770	Galaxy	11:38.0	+59:37	1.3	12.9	UMa			
X	3/28/2014	22:35	NGC 3773	Galaxy	11:38.2	+12:07		12.0	Leo			
X	3/15/2018	21:35	NGC 3782	Galaxy	11:39.3	+46:31	4.7	12.4	UMa			
X	5/28/2014	23:22	NGC 3780	Galaxy	11:39.4	+56:16	3.3	11.5	UMa			
X	1/17/2015	1:08	NGC 3794	Galaxy	11:39.6	+55:11			UMa			
X	1/28/2017	3:07	NGC 3790	Galaxy	11:39.8	+17:43	2.5	13.9	Leo			
X	1/28/2017	2:29	NGC 3791	Galaxy	11:39.8	-9:23	1.3	13.7	Crt			
X	1/26/2017	21:50	NGC 3795A	Galaxy	11:40.1	+58:37		13.1	UMa			
X	2/24/2009	23:28	NGC 3800	Galaxy	11:40.2	+15:21	2.2	12.7	Leo			
X	1/28/2017	1:54	NGC 3798	Galaxy	11:40.2	+24:43	2.0	12.1	Leo			
X	3/13/2010	0:00	NGC 3801	Galaxy	11:40.3	+17:44	2.7	12.0	Leo			
X	1/23/2012	2:01	NGC 3802	Galaxy	11:40.3	+17:46	1.4	13.3	Leo			
X	5/28/2014	23:39	NGC 3796	Galaxy	11:40.6	+60:18	1.6	12.5	UMa			
X	5/27/2014	23:08	NGC 3808	Galaxy	11:40.7	+22:27	1.7	11.9	Leo			
X	3/15/2018	23:32	NGC 3805	Galaxy	11:40.8	+20:22	1.4	12.7	Leo			
X	5/28/2014	23:19	NGC 3804	Galaxy	11:40.9	+56:12	1.4	12.9	UMa			
X	1/24/2012	1:05	NGC 3810	Galaxy	11:41.0	+11:28	3.8	10.8	Leo	X		
X	1/28/2017	1:15	NGC 3812	Galaxy	11:41.1	+24:51	1.6	12.4	Leo			
X	4/27/2003	0:44	NGC 3813	Galaxy	11:41.3	+36:33	1.9	11.7	UMa	X		
X	3/15/2018	21:39	NGC 3811	Galaxy	11:41.3	+47:42	4.2	12.3	UMa			
X	1/28/2017	1:54	NGC 3815	Galaxy	11:41.7	+24:49	2.6	13.0	Leo			
X	2/1/2019	23:44	NGC 3818	Galaxy	11:42.0	-6:09	2.0	11.7	Vir			
X	5/28/2014	21:38	NGC 3822	Galaxy	11:42.2	+10:17	1.3	13.1	Vir			
X	3/15/2018	23:36	NGC 3821	Galaxy	11:42.2	+20:20	1.4	12.9	Leo			
X	4/1/2005	21:44	NGC 3826	Galaxy	11:42.4	+26:30	1.6	13.4	Leo			
X	5/13/2010	0:55	NGC 3825	Galaxy	11:42.4	+10:17		13.0	Vir			
X	1/17/2015	1:17	NGC 3824	Galaxy	11:42.8	+52:47		13.6	UMa			
X	3/19/2015	0:30	NGC 3901	Galaxy	11:43.0	+77:24		13.7	Cam			
X	1/17/2015	1:17	NGC 3829	Galaxy	11:43.5	+52:43		14.0	UMa			
X	1/28/2017	2:07	NGC 3832	Galaxy	11:43.5	+22:44	1.1	13.0	Leo			
X	1/28/2017	1:02	NGC 3833	Galaxy	11:43.5	+10:10		13.5	Vir			
X	1/28/2017	0:57	NGC 3848	Galaxy	11:43.7	+10:16		13.8	Vir			
X	5/27/2014	23:12	NGC 3842	Galaxy	11:44.0	+19:57	0.3	11.8	Leo			

X	5/28/2014	23:25	NGC 3838	Galaxy	11:44.2	+57:57	1.2	12.3	UMa			
X	1/28/2017	3:15	NGC 3860A	Galaxy	11:44.6	+19:49	0.9	13.4	Leo			
X	5/27/2014	23:15	NGC 3862	Galaxy	11:45.1	+19:36	1.1	12.7	Leo			
X	3/28/2014	0:30	NGC 3876	Galaxy	11:45.4	+9:11	1.0	12.8	Vir			
X	1/27/2017	21:00	NGC 3850	Galaxy	11:45.6	+55:53		13.3	UMa			
X	5/27/2014	23:20	NGC 3872	Galaxy	11:45.8	+13:46	2.8	11.7	Leo			
X	1/18/2015	1:32	NGC 3875	Galaxy	11:45.8	+19:46	1.7	13.9	Leo			
X	3/15/2018	21:42	NGC 3870	Galaxy	11:45.9	+50:12		13.0	UMa			
X	4/27/2003	0:47	NGC 3877	Galaxy	11:46.1	+47:30	5.1	11.0	UMa	X		
X	3/15/2018	23:47	NGC 3884	Galaxy	11:46.2	+20:25	1.8	12.6	Leo			
X	4/7/2013	23:55	NGC 3885	Galaxy	11:46.8	-27:55		11.8	Hya			
X	3/15/2018	23:52	NGC 3883	Galaxy	11:46.8	+20:42		12.7	Leo			
X	1/25/2017	23:46	NGC 3879	Galaxy	11:46.9	+69:24	2.1	13.1	Dra			
X	5/24/2006	22:24	NGC 3887	Galaxy	11:47.1	-16:51	3.5	10.6	Crt		X	
X	5/12/2010	23:32	NGC 3888	Galaxy	11:47.6	+55:58	2.7	12.1	UMa			
X	5/24/2006	22:17	NGC 3892	Galaxy	11:48.0	-10:58	1.6	11.5	Crt		X	
X	3/27/2014	22:25	NGC 3891	Galaxy	11:48.0	+30:23	1.4	12.4	UMa			
X	3/15/2018	21:50	NGC 3893	Galaxy	11:48.6	+48:43	1.6	10.5	UMa	X		
X	1/23/2012	21:45	NGC 3894	Galaxy	11:48.8	+59:25	3.0	11.6	UMa			
X	3/15/2018	21:50	NGC 3896	Galaxy	11:48.9	+48:41	1.4	12.9	UMa			
X	3/15/2018	22:13	NGC 3897	Galaxy	11:49.0	+35:01	1.6	12.9	UMa			
X	1/23/2012	21:45	NGC 3895	Galaxy	11:49.1	+59:26	1.3	13.1	UMa			
X	4/26/2003	0:06	NGC 3900	Galaxy	11:49.2	+27:01	2.9	11.3	Leo	X		
X	4/27/2003	0:53	NGC 3898	Galaxy	11:49.2	+56:05	3.0	10.7	UMa	X		
X	5/10/2010	23:01	NGC 3904	Galaxy	11:49.2	-29:17	3.7	11.0	Hya			
X	1/28/2017	3:20	NGC 3902	Galaxy	11:49.3	+26:07	1.4	12.8	Leo			
X	1/17/2015	2:23	NGC 3911	Galaxy	11:49.4	+24:57	1.1	13.8	Leo			
X	1/25/2017	23:35	NGC 3890	Galaxy	11:49.4	+74:20		13.2	Dra			
X	3/15/2018	21:55	NGC 3906	Galaxy	11:49.7	+48:26	1.7	12.6	UMa			
X	4/26/2003	0:24	NGC 3912	Galaxy	11:50.1	+26:29	1.4	12.4	Leo	X		
X	1/17/2015	1:12	NGC 3913	Galaxy	11:50.6	+55:21	1.5	12.6	UMa			
X	1/28/2017	1:10	NGC 3914	Galaxy	11:50.6	+6:35	1.0	13.2	Vir			
X	1/17/2015	1:12	NGC 3916	Galaxy	11:50.8	+55:09	2.0	13.9	UMa			
X	1/17/2015	1:22	NGC 3917	Galaxy	11:50.8	+51:50	1.6	11.8	UMa			
X	5/10/2010	23:03	NGC 3923	Galaxy	11:51.0	-28:48	2.6	9.6	Hya			
X	5/29/2014	0:03	NGC 3921	Galaxy	11:51.1	+55:05	3.8	12.4	UMa			
X	1/17/2015	1:22	NGC 3931	Galaxy	11:51.2	+52:00		13.3	UMa			
X	3/15/2018	21:45	NGC 3922	Galaxy	11:51.2	+50:11	5.1	12.8	UMa			
X	1/28/2017	2:15	NGC 3926A	Galaxy	11:51.5	+22:03	1.3	13.5	Leo			
X	3/15/2018	21:52	NGC 3928	Galaxy	11:51.8	+48:41	1.1	12.6	UMa			
X	3/25/2019	20:38	NGC 3930	Galaxy	11:51.8	+38:01	2.6	12.4	UMa			
X	1/17/2015	1:25	NGC 3924	Galaxy	11:52.6	+50:01	1.6	14.5	UMa			
X	3/15/2018	23:55	NGC 3937	Galaxy	11:52.7	+20:39	0.8	12.5	Leo			
X	3/15/2018	23:57	NGC 3940	Galaxy	11:52.7	+21:01	0.8	12.8	Leo			
X	4/27/2003	0:55	NGC 3938	Galaxy	11:52.8	+44:07	5.4	10.4	UMa	X		
X	4/27/2003	0:58	NGC 3941	Galaxy	11:52.9	+36:59	3.7	10.3	UMa	X		
X	1/28/2017	3:23	NGC 3944	Galaxy	11:53.1	+26:14	0.9	12.9	Leo			
X	4/27/2003	1:02	NGC 3945	Galaxy	11:53.2	+60:41	2.6	10.8	UMa	X		
X	3/15/2018	23:59	NGC 3947	Galaxy	11:53.4	+20:45	1.7	13.2	Leo			
X	4/27/2003	1:04	NGC 3949	Galaxy	11:53.7	+47:52	3.0	11.0	UMa	X		
X	1/28/2017	2:11	NGC 3951	Galaxy	11:53.7	+23:24	1.1	13.6	Leo			
X	3/16/2018	0:01	NGC 3954	Galaxy	11:53.7	+20:54	3.1	13.7	Leo			
X	2/1/2019	23:49	NGC 3952	Galaxy	11:53.7	-4:00	1.7	13.1	Vir			
X	4/27/2003	1:06	NGC 3953	Galaxy	11:53.8	+52:20	8.1	10.1	UMa	X		
X	4/1/2005	22:39	NGC 3955	Galaxy	11:54.0	-23:10		11.3	Crt			

X	4/1/2005	22:46	NGC 3956	Galaxy	11:54.0	-20:34	2.0	12.2	Crt			
X	4/1/2005	22:47	NGC 3957	Galaxy	11:54.0	-19:34	1.7	12.0	Crt			
X	5/28/2014	23:32	NGC 3958	Galaxy	11:54.6	+58:22	1.6	13.0	UMa			
X	5/3/2000	23:53	NGC 3962	Galaxy	11:54.7	-13:58	2.6	10.7	Crt	X		
X	5/28/2014	23:32	NGC 3963	Galaxy	11:55.0	+58:30	3.2	11.9	UMa			
X	1/25/2017	23:48	NGC 3961	Galaxy	11:55.0	+69:20		13.5	Dra			
X	5/27/2014	23:14	NGC 3968	Galaxy	11:55.5	+11:58	2.3	11.8	Leo			
X	3/15/2018	22:16	NGC 3971	Galaxy	11:55.6	+30:00	1.8	12.7	UMa			
X	5/28/2014	23:52	NGC 3972	Galaxy	11:55.8	+55:19	1.6	12.3	UMa			
X	3/28/2014	0:30	NGC 3976	Galaxy	11:56.0	+6:45	3.3	11.5	Vir			
X	4/7/2013	23:46	NGC 3981	Galaxy	11:56.1	-19:54	2.3	11.0	Crt			
X	5/28/2014	23:52	NGC 3977	Galaxy	11:56.1	+55:24	1.4	13.4	UMa			
X	1/17/2015	1:49	NGC 3978	Galaxy	11:56.2	+60:31	2.7	12.7	UMa			
X	1/18/2015	1:25	NGC 3983	Galaxy	11:56.4	+23:53	0.7	14.0	Leo			
X	4/27/2003	1:09	NGC 3982	Galaxy	11:56.5	+55:08	4.9	11.0	UMa	X		
X	3/15/2018	21:56	NGC 3985	Galaxy	11:56.7	+48:20	2.5	12.6	UMa			
X	5/12/1988	1:17	NGC 3992	Galaxy	11:57.6	+53:23		9.8	UMa	X		
X	5/28/2014	23:52	NGC 3990	Galaxy	11:57.6	+55:28	1.3	12.6	UMa			
X	4/27/2003	1:11	NGC 3998	Galaxy	11:57.9	+55:27	3.0	10.7	UMa	X		
X	1/18/2015	1:15	NGC 4002	Galaxy	11:58.0	+23:13	1.5	14.0	Leo			
X	1/18/2015	1:25	NGC 4003	Galaxy	11:58.0	+23:08	1.0	13.3	Leo			
X	1/28/2017	3:26	NGC 4004A	Galaxy	11:58.1	+27:53	1.2	13.7	Leo			X
X	3/27/2014	22:31	NGC 4008	Galaxy	11:58.3	+28:12	2.1	12.0	Leo			X
X	3/6/2005	0:40	NGC 4024	Galaxy	11:58.5	-18:21	3.8	11.9	Crv		X	
X	3/17/2007	21:38	NGC 4013	Galaxy	11:58.5	+43:57	1.6	11.2	UMa		X	
X	3/27/2014	22:40	NGC 4017	Galaxy	11:58.7	+27:26	2.6	12.2	Com			X
X	3/15/2018	23:05	NGC 4015	Galaxy	11:58.7	+25:03	0.2	13.2	Com			
X	3/27/2014	22:29	NGC 4020	Galaxy	11:58.9	+30:25	2.2	12.7	UMa			
X	3/15/2018	23:05	NGC 4021	Galaxy	11:59.0	+25:06		14.5	Com			
X	3/18/2015	3:06	NGC 4025	Galaxy	11:59.2	+37:48	0.6	13.6	UMa			
X	4/27/2003	1:14	NGC 4026	Galaxy	11:59.4	+50:58	2.5	10.8	UMa	X		
X	5/3/2000	23:42	NGC 4027	Galaxy	11:59.5	-19:16	5.2	11.2	Crv	X		
X	4/26/2003	1:52	NGC 4030	Galaxy	12:00.4	-1:06	3.8	10.6	Vir	X		
X	3/31/2019	21:09	NGC 4035	Galaxy	12:00.5	-15:57	0.9	12.4	Crv			
X	4/7/2003	23:42	NGC 4033	Galaxy	12:00.6	-17:51	3.4	11.8	Crv			
X	5/27/2014	23:17	NGC 4032	Galaxy	12:00.6	+20:04	1.6	12.2	Com			
X	4/21/2006	1:33	NGC 4036	Galaxy	12:01.4	+61:54	6.4	10.7	UMa	X		
X	3/15/2018	23:21	NGC 4037	Galaxy	12:01.4	+13:24	1.6	11.9	Com			
X	1/25/2017	20:09	NGC 4034	Galaxy	12:01.5	+69:19		13.5	Dra			
X	1/24/2012	1:47	NGC 4038	Galaxy	12:01.9	-18:52		10.5	Crv	X		
X	1/24/2012	1:47	NGC 4039	Galaxy	12:01.9	-18:53		10.3	Crv		X	
X	4/27/2003	1:18	NGC 4041	Galaxy	12:02.2	+62:08	3.8	11.3	UMa	X		
X	2/1/2019	23:52	NGC 4044	Galaxy	12:02.5	-0:11	1.1	13.0	Vir			
X	3/17/2007	1:37	NGC 4045	Galaxy	12:02.7	+1:59	2.8	11.8	Vir		X	
X	3/17/2007	23:46	NGC 4047	Galaxy	12:02.9	+48:38	2.9	12.2	UMa		X	
X	4/7/2013	23:44	NGC 4050	Galaxy	12:02.9	-16:22	2.2	12.2	Crv			
X	3/15/2018	23:28	NGC 4049	Galaxy	12:03.0	+18:46	1.2	13.2	Com			
X	4/22/2009	1:56	NGC 4051	Galaxy	12:03.2	+44:32	2.3	10.2	UMa	X		
X	1/17/2015	1:32	NGC 4054	Galaxy	12:03.2	+57:54		14.2	UMa			
X	8/18/2012	23:30	NGC 7013	Galaxy	12:03.6	+29:54		11.3	Cyg			
X	1/27/2017	23:23	NGC 4068	Galaxy	12:04.0	+52:35	1.6	12.5	UMa			
X	3/18/2007	3:51	NGC 4062	Galaxy	12:04.1	+31:54	4.4	11.1	UMa		X	
X	3/16/2018	0:07	NGC 4061	Galaxy	12:04.1	+20:13	1.2	13.1	Com			
X	3/13/2010	0:30	NGC 4065	Galaxy	12:04.2	+20:13	0.8	12.6	Com			
X	3/15/2018	23:15	NGC 4067	Galaxy	12:04.2	+10:51		12.5	Vir			

X	3/16/2018	0:07	NGC 4069	Galaxy	12:04.2	+20:20	0.4		Com			
X	3/16/2018	0:07	NGC 4070	Galaxy	12:04.2	+20:26		13.1	Com			
X	3/17/2007	1:37	NGC 4073	Galaxy	12:04.5	+1:54	2.1	11.4	Vir		X	
X	3/13/2010	0:30	NGC 4076	Galaxy	12:04.6	+20:12	4.3	13.3	Com			
X	3/16/2018	0:07	NGC 4074	Galaxy	12:04.6	+20:20	1.2	14.5	Com			
X	2/1/2019	23:54	NGC 4077	Galaxy	12:04.7	+1:48	1.0	13.1	Vir			
X	1/28/2017	3:29	NGC 4080	Galaxy	12:05.0	+27:00	1.4	13.8	Com			X
X	4/27/2003	1:24	NGC 4085	Galaxy	12:05.4	+50:21	2.9	12.4	UMa	X		
X	4/27/2003	0:42	NGC 4088	Galaxy	12:05.6	+50:33	5.4	10.6	UMa	X		
X	1/28/2017	2:49	NGC 4087	Galaxy	12:05.6	-26:33		12.1	Hya			
X	3/17/2007	22:57	NGC 4096	Galaxy	12:06.0	+47:29	6.5	10.6	UMa		X	
X	3/16/2018	0:09	NGC 4095	Galaxy	12:06.0	+20:35		1.0	Com			
X	3/16/2018	0:19	NGC 4097	Galaxy	12:06.1	+36:52	1.6	13.4	UMa			
X	3/16/2018	0:09	NGC 4098	Galaxy	12:06.1	+20:37		13.7	Com			
X	3/17/2007	23:04	NGC 4100	Galaxy	12:06.2	+49:35	0.9	11.2	UMa		X	
X	3/15/2018	23:00	NGC 4101	Galaxy	12:06.2	+25:34	1.6	13.5	Com			
X	4/27/2003	1:30	NGC 4102	Galaxy	12:06.4	+52:43	5.5	11.2	UMa	X		
X	1/28/2017	3:34	NGC 4104	Galaxy	12:06.6	+28:10	2.1	12.1	Com			X
X	5/10/2010	23:07	NGC 4105	Galaxy	12:06.7	-29:46	4.0	10.4	Hya		X	
X	5/10/2010	23:07	NGC 4106	Galaxy	12:06.8	-29:46	2.1	10.6	Hya			
X	3/20/2004	1:47	NGC 4111	Galaxy	12:07.1	+43:04	4.8	10.8	CVn	X		
X	3/31/2019	21:10	NGC 4114	Galaxy	12:07.2	-14:11	1.6	12.7	Crv			
X	3/31/2019	21:07	NGC 4117	Galaxy	12:07.8	+43:08	2.9	13.0	CVn			
X	3/17/2007	3:24	NGC 4124	Galaxy	12:08.2	+10:23	4.6	11.3	Vir		X	
X	2/1/2019	23:56	NGC 4123	Galaxy	12:08.2	+2:53	4.5	11.2	Vir			
X	3/19/2015	1:34	NGC 4127	Galaxy	12:08.4	+76:48	3.3	12.7	Cam			
X	1/27/2017	20:05	NGC 4120	Galaxy	12:08.5	+69:33		13.5	Dra			
X	1/27/2017	20:12	NGC 4128	Galaxy	12:08.5	+68:46	2.3	12.0	Dra			
X	3/17/2007	22:35	NGC 4133	Galaxy	12:08.6	+74:56	2.9	12.3	Dra		X	
X	3/15/2018	23:26	NGC 4126	Galaxy	12:08.7	+16:09	3.2	13.4	Com			
X	3/15/2018	22:47	NGC 4131	Galaxy	12:08.7	+29:18	1.1	13.2	Com			X
X	3/31/2019	21:13	NGC 4129	Galaxy	12:08.9	-9:02	2.3	12.5	Vir			
X	3/15/2018	22:47	NGC 4132	Galaxy	12:09.0	+29:14	1.8	13.9	Com			X
X	3/15/2018	0:47	NGC 4134	Galaxy	12:09.2	+29:11	4.8	12.8	Com			X
X	3/18/2007	3:47	NGC 4136	Galaxy	12:09.3	+29:56	3.5	11.0	Com		X	
X	3/17/2007	21:44	NGC 4138	Galaxy	12:09.5	+43:41	2.9	11.3	CVn		X	
X	1/27/2017	23:13	NGC 4142	Galaxy	12:09.5	+53:06		13.3	UMa			
X	5/15/2012	1:18	NGC 4143	Galaxy	12:09.6	+42:32		10.7	CVn	X		
X	1/27/2017	22:29	NGC 4141	Galaxy	12:09.7	+58:51		13.7	UMa			
X	3/17/2007	23:22	NGC 4144	Galaxy	12:10.0	+46:27	5.0	11.6	UMa		X	
X	3/31/2019	21:04	NGC 4145	Galaxy	12:10.0	+39:53	6.0	11.3	CVn			
X	2/24/2001	21:41	NGC 4147	Globular Cluster	12:10.1	+18:33	4.0	10.2	Com	X		
X	2/2/2019	0:23	NGC 4146	Galaxy	12:10.3	+26:26	1.5	12.7	Com			
X	1/27/2017	22:31	NGC 4149	Galaxy	12:10.4	+58:19	1.1	13.2	UMa			
X	7/12/2004	22:23	NGC 4151	Galaxy	12:10.5	+39:24	6.4	10.8	CVn	X		
X	7/10/2004	23:12	NGC 4150	Galaxy	12:10.6	+30:24	2.1	11.6	Com	X		
X	3/17/2007	23:50	NGC 4152	Galaxy	12:10.6	+16:02	1.5	12.2	Com		X	
X	1/26/2017	20:47	NGC 4159	Galaxy	12:10.7	+76:09		13.4	Dra			
X	3/31/2019	21:04	NGC 4156	Galaxy	12:10.8	+39:28	2.3	13.2	CVn			
X	3/17/2007	23:50	NGC 4157	Galaxy	12:11.1	+50:29	7.1	11.3	UMa		X	
X	3/16/2018	0:12	NGC 4158	Galaxy	12:11.2	+20:11	1.5	12.1	Com			
X	5/28/2014	23:48	NGC 4161	Galaxy	12:11.4	+57:44	1.5	12.9	UMa			
X	3/15/2018	23:10	NGC 4162	Galaxy	12:11.9	+24:07	1.7	12.2	Com			
X	1/27/2017	22:45	NGC 4172	Galaxy	12:12.2	+56:11	1.0	13.2	UMa			
X	3/15/2018	22:22	NGC 4163	Galaxy	12:12.2	+36:10	1.2	14.0	CVn			

X	3/15/2018	22:41	NGC 4169	Galaxy	12:12.2	+29:10	0.7	12.2	Com		X	X
X	3/17/2007	3:33	NGC 4168	Galaxy	12:12.3	+13:12	2.5	11.2	Vir		X	
X	1/24/2012	2:11	NGC 4173	Galaxy	12:12.3	+29:11			Com			X
X	3/15/2018	22:41	NGC 4174	Galaxy	12:12.4	+29:08	1.9	13.3	Com			X
X	3/15/2018	22:41	NGC 4175	Galaxy	12:12.5	+29:09	3.2	13.2	Com			X
X	3/31/2019	21:11	NGC 4177	Galaxy	12:12.8	-14:00	1.2	13.2	Crv			
X	4/26/2003	23:44	NGC 4179	Galaxy	12:12.9	+1:18	3.9	11.0	Vir	X		
X	3/28/2014	0:53	NGC 4180	Galaxy	12:13.1	+7:02	1.6	12.6	Vir			
X	1/23/2012	23:55	NGC 4183	Galaxy	12:13.3	+43:42	1.6	12.3	CVn			
X	3/28/2007	3:41	NGC 4185	Galaxy	12:13.4	+28:31	1.5	12.1	Com		X	X
X	1/27/2017	23:17	NGC 4181	Galaxy	12:13.4	+50:46		14.0	CVn			
X	1/27/2017	23:00	NGC 4187A	Galaxy	12:13.4	+50:44	1.2	13.2	CVn			
X	3/15/2018	22:21	NGC 4190	Galaxy	12:13.7	+36:38	4.1	13.3	CVn			
X	3/17/2007	3:33	NGC 4189	Galaxy	12:13.8	+13:26		11.7	Com		X	
X	3/15/2018	23:19	NGC 4193	Galaxy	12:13.9	+13:10	1.5	12.4	Vir			
X	2/24/2009	22:40	NGC 4194	Galaxy	12:14.2	+54:32	1.4	12.5	UMa			
X	1/17/2015	1:52	NGC 4195	Galaxy	12:14.2	+59:37		14.2	UMa			
X	1/27/2017	22:47	NGC 4198	Galaxy	12:14.3	+56:01	1.8	13.6	UMa			
X	3/15/2018	1:52	NGC 4196	Galaxy	12:14.4	+28:25		12.8	Com			X
X	1/24/2012	0:59	NGC 4197	Galaxy	12:14.6	+5:48	3.5	12.8	Vir			
X	1/17/2015	1:56	NGC 4199	Galaxy	12:14.8	+59:54		14.5	UMa			
X	3/15/2018	23:17	NGC 4200	Galaxy	12:14.8	+12:11	5.3	13.0	Vir			
X	4/26/2003	3:10	NGC 4203	Galaxy	12:15.1	+33:12	3.5	10.9	Com	X		
X	2/2/2019	0:12	NGC 4204	Galaxy	12:15.2	+20:39	1.5	12.4	Com			
X	1/24/2012	0:22	NGC 4206	Galaxy	12:15.3	+13:02	3.7	12.2	Vir			
X	1/27/2017	20:18	NGC 4210	Galaxy	12:15.3	+65:59		12.5	Dra			
X	3/15/2018	22:54	NGC 4209	Star	12:15.4	+28:28			Com			X
X	5/15/2012	1:03	NGC 4214	Galaxy	12:15.6	+36:20	10.0	9.8	CVn	X		
X	3/17/2007	3:33	NGC 4212	Galaxy	12:15.7	+13:54	2.8	11.2	Com		X	
X	3/15/2018	23:12	NGC 4213	Galaxy	12:15.7	+23:59	2.5	12.5	Com			
X	3/17/2007	23:32	NGC 4217	Galaxy	12:15.8	+47:06	2.4	11.2	CVn		X	
X	3/31/2019	21:01	NGC 4218	Galaxy	12:15.8	+48:08	1.2	12.5	CVn			
X	5/10/2010	23:30	NGC 4216	Galaxy	12:15.9	+13:09	7.8	10.0	Vir	X		
X	3/28/2014	0:37	NGC 4215	Galaxy	12:15.9	+6:24	1.5	12.1	Vir			
X	3/17/2007	23:40	NGC 4220	Galaxy	12:16.2	+47:53	3.5	11.4	CVn		X	
X	1/24/2012	0:19	NGC 4222	Galaxy	12:16.4	+13:19	1.9	13.3	Com			
X	3/15/2018	22:25	NGC 4227	Galaxy	12:16.5	+33:31	1.2	12.7	CVn			
X	3/28/2014	0:47	NGC 4224	Galaxy	12:16.6	+7:28	1.8	11.8	Vir		X	
X	9/25/2003	20:54	NGC 4236	Galaxy	12:16.7	+69:28	7.2	9.6	Dra		X	
X	3/15/2018	22:25	NGC 4229	Galaxy	12:16.7	+33:34		13.2	CVn			
X	3/31/2019	20:59	NGC 4231	Galaxy	12:16.8	+47:27	1.4	13.3	CVn			
X	3/31/2019	20:59	NGC 4232	Galaxy	12:16.8	+47:26	1.4	13.6	CVn			
X	1/27/2017	22:26	NGC 4238	Galaxy	12:16.9	+63:25		13.6	Dra			
X	3/28/2014	0:47	NGC 4233	Galaxy	12:17.1	+7:37	2.0	11.9	Vir		X	
X	3/17/2007	3:46	NGC 4237	Galaxy	12:17.2	+15:19	3.5	11.7	Com		X	
X	3/28/2014	0:47	NGC 4235	Galaxy	12:17.2	+7:11	3.6	11.6	Vir		X	
X	3/17/2007	2:06	NGC 4241	Galaxy	12:17.4	+6:41	2.5	11.9	Vir		X	X
X	3/17/2007	23:37	NGC 4250	Galaxy	12:17.4	+70:48	2.1	11.8	Dra		X	
X	5/15/2012	1:06	NGC 4244	Galaxy	12:17.5	+37:49	15.5	10.4	CVn		X	
X	3/31/2019	20:57	NGC 4242	Galaxy	12:17.5	+45:37	2.7	10.8	CVn			
X	3/18/2007	3:30	NGC 4245	Galaxy	12:17.6	+29:36	3.2	11.4	Com	X		
X	7/22/2009	22:10	NGC 4248	Galaxy	12:17.8	+47:25		12.5	CVn		X	
X	3/28/2014	0:47	NGC 4246	Galaxy	12:18.0	+7:11	2.2	12.7	Vir			
X	6/22/2009	23:43	NGC 4251	Galaxy	12:18.1	+28:10	3.7	10.7	Com	X		X
X	5/3/2016	22:46	NGC 4253	Galaxy	12:18.4	+29:49	0.7	13.1	Com			

X	3/17/2007	22:25	NGC 4256	Galaxy	12:18.7	+65:54	2.2	11.9	Dra		X	
X	7/22/2009	22:10	NGC 4258	Galaxy	12:19.0	+47:18	17.8	8.4	CVn	X		
X	4/26/2003	2:02	NGC 4261	Galaxy	12:19.4	+5:49	3.5	10.4	Vir	X		
X	3/17/2007	1:50	NGC 4260	Galaxy	12:19.4	6:06	2.0	11.8	Vir		X	
X	3/15/2018	23:24	NGC 4262	Galaxy	12:19.5	+14:53	3.2	11.6	Com			
X	4/21/2006	1:58	NGC 4271	Galaxy	12:19.6	+56:45	2.3	12.6	UMa		X	
X	3/17/2007	1:50	NGC 4264	Galaxy	12:19.6	+5:51	0.8	12.8	Vir		X	
X	3/31/2019	21:48	NGC 4263	Galaxy	12:19.7	-12:15	1.5	11.8	Crv			
X	4/26/2003	2:10	NGC 4270	Galaxy	12:19.8	+5:28	1.7	12.2	Vir		X	
X	3/17/2007	3:17	NGC 4267	Galaxy	12:19.8	+12:48	1.5	10.9	Vir		X	
X	3/18/2007	3:30	NGC 4274	Galaxy	12:19.8	+29:37	6.7	10.4	Com	X		
X	3/15/2018	22:35	NGC 4272	Galaxy	12:19.8	+30:20	1.7	13.1	Com			
X	4/26/2003	2:10	NGC 4273	Galaxy	12:19.9	+5:21	2.3	11.9	Vir	X		
X	3/15/2018	22:57	NGC 4275	Galaxy	12:19.9	+27:37	1.1	13.1	Com			X
X	7/10/2004	22:30	NGC 4278	Galaxy	12:20.1	+29:17	3.5	10.2	Com	X		X
X	3/28/2014	1:02	NGC 4277	Galaxy	12:20.1	+5:21	0.8	13.4	Vir			
X	4/21/2006	1:52	NGC 4284	Galaxy	12:20.2	+58:06		13.5	UMa			
X	3/17/2007	22:38	NGC 4291	Galaxy	12:20.3	+75:22	2.8	11.5	Dra		X	
X	3/18/2007	3:30	NGC 4283	Galaxy	12:20.3	+29:19		12.1	Com			
X	4/26/2003	2:10	NGC 4281	Galaxy	12:20.4	+5:23	2.5	11.3	Vir	X		
X	3/31/2019	21:51	NGC 4288	Galaxy	12:20.6	+46:17	2.3	12.9	CVn			
X	3/15/2018	22:50	NGC 4286	Galaxy	12:20.7	+29:21	1.5	13.1	Com			
X	4/21/2006	1:52	NGC 4290	Galaxy	12:20.8	+58:06	1.9	11.8	UMa		X	
X	6/11/2004	22:19	NGC 4293	Galaxy	12:21.2	+18:23	1.6	10.4	Com	X		
X	3/17/2007	3:12	NGC 4294	Galaxy	12:21.3	+11:31	1.7	12.1	Vir		X	
X	3/17/2007	3:39	NGC 4298	Galaxy	12:21.5	+14:36	4.7	11.4	Com		X	
X	2/2/2019	0:55	NGC 4296	Galaxy	12:21.5	+6:40	1.5	12.7	Vir			
X	2/2/2019	0:55	NGC 4297	Galaxy	12:21.5	+6:40	0.5	14.2	Vir			
X	3/17/2007	3:12	NGC 4299	Galaxy	12:21.7	+11:30	3.2	12.5	Vir		X	
X	3/17/2007	3:39	NGC 4302	Galaxy	12:21.7	+14:36	3.4	11.6	Com		X	
X	3/17/2007	20:40	NGC 4319	Galaxy	12:21.7	+75:19	2.8	11.9	Dra		X	
X	2/2/2019	1:12	NGC 4300	Galaxy	12:21.7	+5:23	1.4	12.9	Vir			
X	3/17/2007	1:46	NGC 4303	Galaxy	12:21.9	+4:28	6.0	9.7	Vir	X		
X	3/18/2007	3:27	NGC 4310	Galaxy	12:22.4	+29:12	1.3	12.2	Com		X	X
X	9/27/2016	20:58	NGC 4331	Galaxy	12:22.4	+76:11		14.1	Dra			
X	3/17/2007	3:56	NGC 4312	Galaxy	12:22.5	+15:32	1.9	11.8	Com		X	
X	3/17/2007	3:12	NGC 4313	Galaxy	12:22.6	+11:48	2.0	11.6	Vir		X	
X	3/18/2007	3:30	NGC 4314	Galaxy	12:22.6	+29:53	4.2	10.6	Com	X		
X	1/27/2017	20:21	NGC 4332	Galaxy	12:22.8	+65:51	4.1	12.2	Dra			
X	1/27/2017	22:35	NGC 4335	Galaxy	12:23.0	+58:27	1.6	12.4	UMa			
X	3/13/2010	1:12	NGC 4326	Galaxy	12:23.2	+6:04	1.6	13.3	Vir			
X	5/8/2018	22:25	NGC 4328	Galaxy	12:23.3	+15:48	3.7	13.5	Com			
X	3/13/2010	1:12	NGC 4333	Galaxy	12:23.4	+6:02	0.9	13.6	Vir			
X	3/20/2004	22:38	NGC 4346	Galaxy	12:23.5	+47:00	3.2	11.1	CVn	X		
X	1/26/2017	20:40	NGC 4363	Galaxy	12:23.5	+74:57		13.5	Dra			
X	3/17/2007	4:36	NGC 4336	Galaxy	12:23.6	+19:27	1.3	12.5	Com		X	
X	3/17/2007	4:30	NGC 4340	Galaxy	12:23.6	+16:43	2.5	11.2	Com		X	
X	3/13/2010	1:12	NGC 4339	Galaxy	12:23.6	+6:05	2.0	11.3	Vir		X	
X	5/8/2018	22:27	NGC 4344	Galaxy	12:23.6	+17:32	2.3	12.3	Com			
X	2/2/2019	1:07	NGC 4342	Galaxy	12:23.6	+7:30			Vir			
X	3/17/2007	2:00	NGC 4343	Galaxy	12:23.7	+6:57	2.4	12.1	Vir		X	
X	3/31/2019	21:17	NGC 4348	Galaxy	12:23.9	-3:27	2.8	12.5	Vir			
X	3/17/2007	4:30	NGC 4350	Galaxy	12:24.0	+16:42	1.5	11.0	Com	X		
X	1/27/2017	22:35	NGC 4364	Galaxy	12:24.0	+58:24		13.4	UMa			
X	3/15/2018	21:59	NGC 4358	Galaxy	12:24.0	+58:24		15.4	UMa			

X	2/2/2019	1:08	NGC 4341	Galaxy	12:24.0	+7:07			Vir			
X	5/8/2018	21:34	NGC 4352	Galaxy	12:24.1	+11:13	5.5	12.6	Vir			
X	3/18/2007	3:59	NGC 4359	Galaxy	12:24.2	+31:31	2.0	12.7	Com		X	
X	1/17/2015	1:39	NGC 4362	Galaxy	12:24.2	+58:22		14.3	UMa			
X	1/24/2012	1:52	NGC 4356	Galaxy	12:24.3	+8:33	2.8	13.3	Vir			
X	4/26/2003	2:12	NGC 4365	Galaxy	12:24.5	+7:19	5.6	9.6	Vir	X		
X	2/25/2006	2:10	NGC 4361	Planetary Nebula	12:24.5	-18:48	1.8	10.9	Crv	X		
X	1/26/2017	20:44	NGC 4386	Galaxy	12:24.5	+75:32	1.8	11.7	Dra			
X	3/18/2007	4:15	NGC 4369	Galaxy	12:24.6	+39:23	2.2	11.7	CVn		X	
X	5/12/2010	2:22	NGC 4371	Galaxy	12:24.9	+11:42	3.9	10.8	Vir	X		
X	5/8/2018	23:43	NGC 4370	Galaxy	12:24.9	+7:27	1.4	12.6	Vir			
X	3/25/2019	20:49	NGC 4375	Galaxy	12:25.0	+28:33	1.2	12.8	Com			X
X	3/17/2007	3:56	NGC 4379	Galaxy	12:25.2	+15:36	1.6	11.7	Com		X	
X	5/29/2014	0:06	NGC 4384	Galaxy	12:25.2	+54:30		13.0	UMa			
X	5/8/2018	22:18	NGC 4377	Galaxy	12:25.2	+14:46	1.5	11.7	Com			
X	3/31/2019	21:54	NGC 4392	Galaxy	12:25.2	+45:52	1.6	13.7	CVn			
X	5/3/2016	22:56	NGC 4378	Galaxy	12:25.3	+4:55	3.0	11.7	Vir			
X	1/27/2017	22:14	NGC 4391	Galaxy	12:25.3	+64:56		12.7	Dra			
X	2/2/2019	1:15	NGC 4376	Galaxy	12:25.3	+4:56			Vir			
X	3/31/2019	21:54	NGC 4389	Galaxy	12:25.6	+45:41	4.3	11.7	CVn			
X	5/8/2018	22:02	NGC 4387	Galaxy	12:25.7	+12:49	5.7	12.1	Vir			
X	3/18/2007	4:06	NGC 4395	Galaxy	12:25.8	+33:33		10.2	CVn		X	
X	5/10/2010	23:34	NGC 4388	Galaxy	12:25.8	+12:40	2.2	11.0	Vir			
X	5/8/2018	23:17	NGC 4390	Galaxy	12:25.8	+10:27	1.7	12.6	Vir			
X	3/25/2019	21:55	NGC 4393	Galaxy	12:25.8	+27:33	1.8	12.1	Com			X
X	3/17/2007	4:35	NGC 4394	Galaxy	12:25.9	+18:13	5.0	10.9	Com	X		
X	5/8/2018	22:30	NGC 4405	Galaxy	12:26.1	+16:11	2.7	12.0	Com			
X	3/31/2019	21:15	NGC 4403	Galaxy	12:26.3	-7:41	2.0	13.0	Vir			
X	7/10/2004	22:58	NGC 4414	Galaxy	12:26.4	+31:13	4.4	10.1	Com	X		
X	3/31/2019	21:15	NGC 4404	Galaxy	12:26.4	-7:41	1.5	11.2	Vir			
X	5/8/2018	21:57	NGC 4413	Galaxy	12:26.5	+12:37	3.4	12.2	Vir			
X	5/8/2018	23:40	NGC 4415	Galaxy	12:26.6	+8:25	1.3	12.1	Vir			
X	3/25/2019	22:52	NGC 4412	Galaxy	12:26.6	+3:58	1.5	12.4	Vir			
X	5/8/2018	23:18	NGC 4417	Galaxy	12:26.8	+9:35	3.6	11.2	Vir			
X	5/12/2010	2:32	NGC 4419	Galaxy	12:26.9	+15:03	3.7	11.1	Com	X		
X	3/31/2019	21:19	NGC 4418	Galaxy	12:26.9	-0:51	1.3	13.1	Vir			
X	5/8/2018	22:21	NGC 4421	Galaxy	12:27.0	+15:28	5.0	11.6	Com			
X	3/25/2019	22:58	NGC 4420	Galaxy	12:27.0	+2:30	2.0	12.1	Vir			
X	3/25/2019	22:29	NGC 4423	Galaxy	12:27.1	+5:52	2.0	13.5	Vir			
X	5/8/2018	21:59	NGC 4425	Galaxy	12:27.2	+12:44	1.7	11.9	Vir			
X	1/27/2017	22:19	NGC 4441	Galaxy	12:27.3	+64:48	2.5	12.7	Dra			
X	3/31/2019	21:16	NGC 4422	Galaxy	12:27.3	-5:49	1.5	13.7	Vir			
X	5/12/2010	2:22	NGC 4429	Galaxy	12:27.4	+11:07	3.5	10.2	Vir	X		
X	2/2/2019	1:19	NGC 4430	Galaxy	12:27.4	+6:15	2.7	12.0	Vir			
X	5/8/2018	21:49	NGC 4431	Galaxy	12:27.5	+12:18	1.9	12.9	Vir			
X	5/8/2018	23:42	NGC 4434	Galaxy	12:27.5	+8:09	1.3	12.2	Vir			
X	4/26/2003	2:25	NGC 4435	Galaxy	12:27.7	+13:05	3.0	10.9	Vir	X		
X	5/8/2018	21:53	NGC 4436	Galaxy	12:27.7	+12:19	2.0	13.1	Vir			
X	4/26/2003	2:25	NGC 4438	Galaxy	12:27.8	+13:01	9.3	10.1	Vir	X		
X	5/8/2018	21:46	NGC 4440	Galaxy	12:27.9	+12:18	3.7	11.8	Vir			
X	4/26/2003	2:27	NGC 4442	Galaxy	12:28.1	+9:48	4.6	10.5	Vir	X		
X	7/11/2004	0:21	NGC 4449	Galaxy	12:28.2	+44:06	5.5	9.6	CVn	X		
X	6/22/2009	23:37	NGC 4448	Galaxy	12:28.2	+28:37	3.7	11.1	Com	X		X
X	5/12/2010	2:35	NGC 4450	Galaxy	12:28.5	+17:05	1.8	10.1	Com	X		
X	5/8/2018	21:38	NGC 4452	Galaxy	12:28.7	+11:45	2.4	12.4	Vir			

X	2/2/2019	0:26	NGC 4455	Galaxy	12:28.7	+22:49	1.7	12.3	Com			
X	3/25/2019	22:35	NGC 4453	Galaxy	12:28.7	+6:30	0.6	14.8	Vir			
X	5/27/2014	23:31	NGC 4454	Galaxy	12:28.8	-1:56	2.3	11.9	Vir			
X	3/31/2019	21:57	NGC 4460	Galaxy	12:28.8	+44:52	4.3	11.3	CVn			
X	5/15/2004	23:33	NGC 4459	Galaxy	12:29.0	+13:59	3.5	10.4	Com	X		
X	5/12/2010	2:25	NGC 4461	Galaxy	12:29.0	+13:11	1.7	11.2	Vir			
X	5/8/2018	22:08	NGC 4458	Galaxy	12:29.0	+13:15	3.7	12.1	Vir			
X	3/25/2019	22:55	NGC 4457	Galaxy	12:29.0	+3:34	3.0	10.8	Vir			
X	4/7/2013	0:56	NGC 4462	Galaxy	12:29.3	-23:10			Crv			
X	5/8/2018	23:34	NGC 4464	Galaxy	12:29.4	+8:10	0.9	12.5	Vir			
X	5/8/2018	22:11	NGC 4468	Galaxy	12:29.5	+14:03	1.6	12.8	Com			
X	5/8/2018	23:21	NGC 4469	Galaxy	12:29.5	+8:45	2.9	11.2	Vir			
X	3/17/2007	2:22	NGC 4470	Galaxy	12:29.6	+7:49	1.3	12.1	Vir			
X	5/12/2010	2:25	NGC 4473	Galaxy	12:29.8	+13:26	3.9	10.2	Com	X		
X	2/2/2019	0:45	NGC 4475	Galaxy	12:29.8	+27:15	1.1	13.6	Com			X
X	5/8/2018	22:13	NGC 4474	Galaxy	12:29.9	+14:04	1.9	11.5	Com			
X	4/26/2003	2:32	NGC 4476	Galaxy	12:30.0	+12:21	1.7	12.2	Vir			
X	5/8/2018	22:16	NGC 4477	Galaxy	12:30.0	+13:38	1.5	10.4	Com	X		
X	2/1/2019	23:59	NGC 4482	Galaxy	12:30.2	+10:47	1.6	12.7	Vir			
X	4/26/2003	2:32	NGC 4478	Galaxy	12:30.3	+12:20	2.9	11.4	Vir	X		
X	5/8/2018	22:55	NGC 4479	Galaxy	12:30.3	+13:35	1.9	12.4	Com			
X	3/25/2019	11:49	NGC 4480	Galaxy	12:30.4	+4:15	2.3	12.4	Vir			
X	5/16/2004	1:22	NGC 4485	Galaxy	12:30.5	+41:42	2.7	11.9	CVn	X		
X	4/22/2009	1:30	NGC 4490	Galaxy	12:30.6	+41:38	6.4	9.8	CVn	X		
X	5/8/2018	22:32	NGC 4489	Galaxy	12:30.8	+16:45	1.2	12.0	Com			
X	5/8/2018	23:32	NGC 4488	Galaxy	12:30.9	+8:22	4.2	12.2	Vir			
X	5/8/2018	21:40	NGC 4491	Galaxy	12:31.0	+11:29	2.0	12.6	Vir			
X	5/8/2018	23:38	NGC 4492	Galaxy	12:31.0	+8:05	1.9	12.6	Vir			
X	3/17/2007	0:09	NGC 4487	Galaxy	12:31.1	-8:03	4.1	10.9	Vir		X	
X	3/25/2019	21:44	NGC 4495	Galaxy	12:31.3	+29:09	1.1	13.2	Com			
X	6/11/2004	23:36	NGC 4494	Galaxy	12:31.4	+25:47	4.6	9.8	Com	X		
X	5/28/2014	23:45	NGC 4500	Galaxy	12:31.4	+57:58	5.6	12.5	UMa			
X	5/8/2018	21:43	NGC 4497	Galaxy	12:31.5	+11:37	2.6	12.5	Vir			
X	3/25/2019	23:03	NGC 4496A	Galaxy	12:31.6	+3:56	4.0	11.4	Vir			
X	5/8/2018	22:34	NGC 4498	Galaxy	12:31.7	+16:51	2.7	12.2	Com			
X	3/31/2019	21:59	NGC 4529	Galaxy	12:31.8	+20:30	1.2	14.0	Com			
X	5/8/2018	22:37	NGC 4502	Galaxy	12:32.1	+16:42	1.3	13.9	Com			
X	5/8/2018	23:10	NGC 4503	Galaxy	12:32.1	+11:11	1.5	11.1	Vir			
X	1/27/2017	22:42	NGC 4511	Galaxy	12:32.2	+56:29		13.7	UMa			
X	5/8/2018	22:58	NGC 4506	Galaxy	12:32.2	+13:25	1.6	12.7	Com			
X	3/31/2019	22:00	NGC 4504	Galaxy	12:32.3	-7:34	5.0	11.2	Vir			
X	3/31/2019	22:01	NGC 4514	Galaxy	12:32.5	+29:44		13.2	Com			
X	1/24/2012	2:00	NGC 4517	Galaxy	12:32.8	+0:07	9.9	10.4	Vir			
X	1/27/2017	22:21	NGC 4521	Galaxy	12:32.8	+63:57	2.7	12.2	Dra			
X	5/8/2018	22:40	NGC 4515	Galaxy	12:33.0	+16:15	1.9	12.3	Com			
X	5/8/2018	22:47	NGC 4516	Galaxy	12:33.1	+14:34	1.2	12.8	Com			
X	3/17/2007	2:22	NGC 4519	Galaxy	12:33.5	+8:39	3.5	11.8	Vir		X	
X	3/31/2019	22:03	NGC 4520	Galaxy	12:33.8	-7:23	1.3	14.0	Vir			
X	3/25/2019	21:49	NGC 4525	Galaxy	12:33.8	+30:17	2.0	12.2	Com			
X	4/26/2003	2:33	NGC 4526	Galaxy	12:34.0	+7:42	7.1	9.7	Vir	X		
X	4/26/2003	2:39	NGC 4527	Galaxy	12:34.1	+2:39	6.0	10.5	Vir	X		
X	2/2/2019	1:43	NGC 4528	Galaxy	12:34.1	+11:19	3.1	12.1	Vir			
X	3/25/2019	22:04	NGC 4534	Galaxy	12:34.1	+35:31	1.4	12.3	CVn			
X	4/26/2003	2:43	NGC 4535	Galaxy	12:34.3	+8:12	6.8	9.8	Vir	X		
X	5/8/2018	22:52	NGC 4531	Galaxy	12:34.3	+13:05	2.9	11.4	Vir			

X	3/25/2019	22:37	NGC 4532	Galaxy	12:34.3	+6:28	3.2	11.9	Vir			
X	4/26/2003	1:46	NGC 4536	Galaxy	12:34.5	+2:11	6.4	10.6	Vir	X		
X	1/27/2017	22:23	NGC 4545	Galaxy	12:34.6	+63:31	1.1	12.3	Dra			
X	1/17/2015	1:58	NGC 4547	Galaxy	12:34.8	+58:56		16.4	UMa			
X	1/17/2015	1:58	NGC 4549	Galaxy	12:34.8	+58:56		16.4	UMa			
X	5/8/2018	22:44	NGC 4540	Galaxy	12:34.8	+15:33	3.9	11.7	Com			
X	3/31/2019	21:22	NGC 4541	Galaxy	12:35.2	-0:13	1.5	13.0	Vir			
X	5/13/1988	22:33	NGC 4548	Galaxy	12:35.4	+14:30	1.5	10.2	Com	X		
X	3/21/2004	2:29	NGC 4546	Galaxy	12:35.5	-3:48	3.2	10.3	Vir	X		
X	5/8/2018	23:00	NGC 4550	Galaxy	12:35.5	+12:13	3.3	11.7	Vir	X		
X	5/8/2018	23:00	NGC 4551	Galaxy	12:35.6	+12:16	1.7	12.0	Vir			
X	2/2/2019	0:40	NGC 4555	Galaxy	12:35.7	+26:31	3.2	12.1	Com			
X	2/2/2019	0:42	NGC 4556	Galaxy	12:35.8	+26:54	1.1	13.1	Com			X
X	1/26/2017	21:02	NGC 4572	Galaxy	12:35.9	+74:15		14.1	Dra			
X	1/27/2017	22:55	NGC 4566	Galaxy	12:35.9	+54:13		13.1	UMa			
X	6/11/2004	23:54	NGC 4559	Galaxy	12:36.0	+27:58	12.0	10.0	Com	X		X
X	2/2/2019	0:33	NGC 4561	Galaxy	12:36.1	+19:20	1.9	12.5	Com			
X	4/22/2009	0:49	NGC 4565	Galaxy	12:36.3	+25:59		9.6	Com	X		
X	2/2/2019	1:45	NGC 4564	Galaxy	12:36.4	+11:26	3.0	11.1	Vir			
X	2/2/2019	1:48	NGC 4567	Galaxy	12:36.5	+11:15		11.3	Vir			
X	2/2/2019	1:48	NGC 4568	Galaxy	12:36.6	+11:14	5.5	10.8	Vir			
X	5/7/2004	22:09	NGC 4570	Galaxy	12:36.9	+7:15	4.1	10.9	Vir	X		
X	3/17/2007	3:03	NGC 4571	Galaxy	12:36.9	+14:13	2.4	11.3	Com		X	
X	1/26/2017	21:02	NGC 4589	Galaxy	12:37.4	+74:12	1.7	10.7	Dra			
X	5/8/2018	23:23	NGC 4578	Galaxy	12:37.5	+9:33	3.6	11.4	Vir			
X	3/25/2019	22:46	NGC 4580	Galaxy	12:37.8	+5:22	2.4	11.8	Vir			
X	3/25/2019	21:52	NGC 4583	Galaxy	12:38.0	+33:28	0.6	13.5	CVn			
X	3/17/2007	1:28	NGC 4586	Galaxy	12:38.5	+4:19	3.6	11.7	Vir		X	
X	3/25/2019	22:42	NGC 4588	Galaxy	12:38.8	+6:46	1.3	14.3	Vir			
X	5/27/2014	22:27	NGC 4592	Galaxy	12:39.3	-0:32	4.7	11.7	Vir			
X	3/25/2019	22:39	NGC 4591	Galaxy	12:39.3	+6:01	1.6	13.0	Vir			
X	5/27/2014	23:35	NGC 4593	Galaxy	12:39.7	-5:21	3.9	10.9	Vir			
X	5/7/2004	23:51	NGC 4596	Galaxy	12:39.9	+10:11	3.9	10.5	Vir	X		
X	4/7/2013	2:30	NGC 4595	Galaxy	12:39.9	+15:18	3.0	12.1	Com			
X	4/21/2006	2:31	NGC 4605	Galaxy	12:40.0	+61:37	2.6	10.3	UMa		X	
X	3/16/2007	23:37	NGC 4594	Galaxy	12:40.0	-11:37	8.9	8.3	Vir	X		
X	4/7/2016	20:44	NGC 4597	Galaxy	12:40.2	-5:48	4.1	12.1	Vir			
X	5/8/2018	23:30	NGC 4598	Galaxy	12:40.3	+8:23	1.7	12.7	Vir			
X	3/31/2019	21:24	NGC 4600	Galaxy	12:40.4	+3:08	1.3	12.7	Vir			
X	3/31/2019	21:23	NGC 4599	Galaxy	12:40.5	+1:11	1.6	12.6	Vir			
X	4/7/2016	20:44	NGC 4602	Galaxy	12:40.6	-5:08	3.0	11.5	Vir			
X	2/2/2019	1:55	NGC 4606	Galaxy	12:41.0	+11:55	2.7	11.8	Vir			
X	1/27/2017	22:57	NGC 4617	Galaxy	12:41.1	+50:26	2.0	13.2	CVn			
X	3/17/2007	2:37	NGC 4608	Galaxy	12:41.2	+10:09	2.9	11.0	Vir		X	
X	7/10/2004	23:59	NGC 4618	Galaxy	12:41.5	+41:09	4.1	10.8	CVn	X		
X	3/17/2007	2:32	NGC 4612	Galaxy	12:41.5	+7:19	1.6	10.9	Vir		X	
X	3/25/2019	22:02	NGC 4619	Galaxy	12:41.7	+35:04	1.4	12.7	CVn			
X	3/19/2015	1:19	NGC 4648	Galaxy	12:41.8	+74:25	2.0	12.0	Dra			
X	3/31/2019	22:06	NGC 4625	Galaxy	12:41.9	+41:16	1.0	12.3	CVn			
X	7/29/2011	23:01	NGC 4627	Galaxy	12:42.0	+32:34	1.4	12.4	CVn			
X	7/10/2004	23:27	NGC 4631	Galaxy	12:42.1	+32:32	20.0	9.2	CVn	X		
X	5/8/2018	23:45	NGC 4623	Galaxy	12:42.2	+7:41	2.0	12.2	Vir			
X	3/31/2019	22:05	NGC 4626	Galaxy	12:42.4	-7:02	1.5	11.9	Vir			
X	3/31/2019	22:05	NGC 4628	Galaxy	12:42.4	-6:57	1.8	13.7	Vir			
X	3/31/2019	22:08	NGC 4630	Galaxy	12:42.5	+3:58	1.6	12.7	Vir			

X	3/31/2019	22:10	NGC 4632	Galaxy	12:42.5	-0:05	2.9	11.7	Vir			
X	1/27/2017	22:51	NGC 4644	Galaxy	12:42.7	+55:09	0.5	14.0	UMa			
X	5/8/2018	22:49	NGC 4634	Galaxy	12:42.7	+14:18	1.6	12.4	Com			
X	3/21/2004	2:45	NGC 4636	Galaxy	12:42.8	+2:41	7.1	9.5	Vir	X		
X	5/8/2018	23:04	NGC 4638	Galaxy	12:42.8	+11:26	2.4	11.2	Vir			
X	3/17/2007	2:52	NGC 4639	Galaxy	12:42.9	+13:15	4.9	11.5	Vir		X	
X	1/27/2017	22:53	NGC 4646	Galaxy	12:42.9	+54:51	1.9	13.4	UMa			
X	3/21/2004	2:45	NGC 4643	Galaxy	12:43.3	+1:59	3.4	10.6	Vir	X		
X	3/31/2019	22:13	NGC 4642	Galaxy	12:43.3	-0:39	1.8	12.9	Vir			
X	5/7/2004	22:31	NGC 4647	Galaxy	12:43.5	+11:35	3.4	11.3	Vir		X	
X	3/31/2019	22:20	NGC 4655	Galaxy	12:43.6	+41:02	0.9	14.1	CVn			
X	5/8/2018	22:42	NGC 4651	Galaxy	12:43.7	+16:24		10.8	Com			
X	3/31/2019	22:13	NGC 4653	Galaxy	12:43.9	-0:34	2.6	12.3	Vir			
X	3/17/2007	2:52	NGC 4654	Galaxy	12:44.0	+13:08	1.6	10.5	Vir	X		
X	5/15/2012	0:55	NGC 4656	Galaxy	12:44.0	+32:10	20.0	10.5	CVn	X		
X	6/23/2009	0:05	NGC 4657	Galaxy	12:44.2	+32:12	15.0	10.5	CVn			
X	5/7/2004	22:31	NGC 4660	Galaxy	12:44.5	+11:11	3.5	11.2	Vir	X		
X	5/8/2018	22:50	NGC 4659	Galaxy	12:44.5	+13:31	3.7	12.1	Com			
X	3/25/2019	22:15	NGC 4662	Galaxy	12:44.5	+37:07	1.5	12.7	CVn			
X	3/31/2019	22:15	NGC 4658	Galaxy	12:44.6	-10:05		12.5	Vir			
X	3/21/2004	2:45	NGC 4665	Galaxy	12:45.1	+3:03	4.1	10.5	Vir	X		
X	5/10/2010	23:52	NGC 4666	Galaxy	12:45.1	-0:28	4.5	10.8	Vir	X		
X	2/2/2019	1:24	NGC 4670	Galaxy	12:45.3	+27:08	1.0	12.7	Com			
X	3/31/2019	22:16	NGC 4668	Galaxy	12:45.5	-0:32	1.4	13.1	Vir			
X	1/18/2015	1:50	NGC 4675	Galaxy	12:45.6	+54:44		14.4	UMa			
X	2/2/2019	1:24	NGC 4673	Galaxy	12:45.6	+27:04	1.4	12.9	Com			
X	3/31/2019	22:17	NGC 4671	Galaxy	12:45.8	-7:04	1.5	13.2	Vir			
X	3/31/2019	22:19	NGC 4676A	Galaxy	12:46.1	+30:44	1.9	13.0	Com			
X	1/18/2015	1:56	NGC 4686	Galaxy	12:46.7	+54:33	1.1	12.6	UMa			
X	1/26/2017	21:10	NGC 4693	Galaxy	12:47.1	+71:12		13.4	Dra			
X	2/2/2019	0:36	NGC 4685	Galaxy	12:47.1	+19:28	1.9	12.6	Com			
X	5/27/2014	23:28	NGC 4684	Galaxy	12:47.3	-2:43	2.6	11.4	Vir			
X	3/31/2019	22:26	NGC 4682	Galaxy	12:47.3	-10:04	2.8	12.2	Vir			
X	1/18/2015	1:56	NGC 4695	Galaxy	12:47.5	+54:23	1.6	13.4	UMa			
X	5/8/2004	0:00	NGC 4689	Galaxy	12:47.8	+13:46	3.0	10.9	Com	X		
X	3/31/2019	21:42	NGC 4688	Galaxy	12:47.8	+4:20	4.0	11.9	Vir			
X	2/2/2019	1:27	NGC 4692	Galaxy	12:47.9	+27:13	0.9	12.6	Com			X
X	3/31/2019	22:27	NGC 4690	Galaxy	12:47.9	-1:38	1.1	12.9	Vir			
X	3/17/2007	0:47	NGC 4691	Galaxy	12:48.2	-3:20	2.6	11.1	Vir		X	
X	5/8/2018	23:06	NGC 4694	Galaxy	12:48.2	+10:59	2.0	11.4	Vir			
X	5/7/2004	21:58	NGC 4698	Galaxy	12:48.4	+8:29	3.2	10.6	Vir	X		
X	3/31/2019	22:22	NGC 4707	Galaxy	12:48.4	+51:10		12.9	CVn			
X	3/21/2004	2:27	NGC 4697	Galaxy	12:48.6	-5:48	4.4	9.2	Vir	X		
X	3/31/2019	22:23	NGC 4704	Galaxy	12:48.8	+41:55	1.2	13.7	CVn			
X	3/25/2019	22:06	NGC 4711	Galaxy	12:48.9	+35:21	1.5	13.4	CVn			
X	5/12/2010	2:10	NGC 4699	Galaxy	12:49.0	-8:40	4.4	9.5	Vir	X		
X	3/31/2019	22:25	NGC 4700	Galaxy	12:49.1	-11:25		11.9	Vir			
X	3/31/2019	21:45	NGC 4701	Galaxy	12:49.2	+3:23	3.3	12.4	Vir			
X	5/14/2012	23:27	NGC 4703	Galaxy	12:49.3	-9:07	2.8	13.7	Vir			
X	3/31/2019	21:46	NGC 4705	Galaxy	12:49.4	-5:12	3.2	12.8	Vir			
X	5/12/2010	2:52	NGC 4710	Galaxy	12:49.6	+15:10	2.6	11.0	Com			
X	3/31/2019	21:47	NGC 4708	Galaxy	12:49.7	-11:06	1.5	13.8	Vir			
X	3/31/2019	21:44	NGC 4713	Galaxy	12:50.0	+5:19	2.9	11.7	Vir			
X	1/18/2015	2:17	NGC 4732	Galaxy	12:50.1	+52:52	1.2	13.8	UMa			
X	1/26/2017	21:04	NGC 4750	Galaxy	12:50.1	+72:52	11.2	11.2	Dra			

X	3/25/2019	22:23	NGC 4719	Galaxy	12:50.1	+33:09	1.1	13.2	CVn			
X	3/31/2019	22:28	NGC 4714	Galaxy	12:50.3	-13:18	0.8	12.5	Crv			
X	6/12/2014	0:01	NGC 4725	Galaxy	12:50.4	+25:30	11.0	9.4	Com	X		
X	3/31/2019	22:35	NGC 4720	Galaxy	12:50.7	-4:07	1.0	14.2	Vir			
X	3/31/2019	22:34	NGC 4724	Galaxy	12:50.9	-14:20	1.8	13.9	Crv			
X	3/25/2019	22:18	NGC 4737	Galaxy	12:50.9	+34:09		14.3	CVn			
X	3/31/2019	22:50	NGC 4741	Galaxy	12:50.9	+47:40	1.1	13.7	CVn			
X	3/31/2019	22:34	NGC 4727	Galaxy	12:51.0	-14:20	1.9	13.0	Crv			
X	3/31/2019	22:54	NGC 4731	Galaxy	12:51.0	-6:24	5.4	11.5	Vir			
X	5/8/2018	23:08	NGC 4733	Galaxy	12:51.1	+10:55	4.6	11.8	Vir			
X	1/26/2017	21:06	NGC 4749	Galaxy	12:51.2	+71:38		13.5	Dra			
X	3/31/2019	22:53	NGC 4739	Galaxy	12:51.6	-8:25	1.5	12.6	Vir			
X	3/17/2007	0:03	NGC 4742	Galaxy	12:51.8	-10:27	2.3	11.3	Vir		X	
X	3/31/2019	22:51	NGC 4747	Galaxy	12:51.8	+25:47	1.4	12.3	Com			
X	3/31/2019	22:55	NGC 4748	Galaxy	12:52.2	-13:24	1.5	13.5	Crv			
X	5/7/2004	22:18	NGC 4754	Galaxy	12:52.3	+11:19	4.6	10.6	Vir	X		
X	6/22/2009	21:53	NGC 4753	Galaxy	12:52.4	-1:12	4.1	9.9	Vir	X		
X	5/7/2004	22:18	NGC 4758	Galaxy	12:52.7	+15:51	1.5	13.1	Com			
X	5/13/2000	1:11	NGC 4756	Galaxy	12:52.9	-15:25	3.0	12.4	Crv			
X	5/10/2010	23:36	NGC 4762	Galaxy	12:52.9	+11:14	2.7	10.3	Vir	X		
X	3/31/2019	22:56	NGC 4759	Galaxy	12:53.1	-9:11	1.7	13.0	Vir			
X	3/31/2019	22:57	NGC 4765	Galaxy	12:53.2	+4:28	1.4	13.0	Vir			
X	3/31/2019	22:59	NGC 4774	Galaxy	12:53.2	+36:49	1.6	14.3	CVn			
X	3/31/2019	22:58	NGC 4763	Galaxy	12:53.4	-17:00		12.6	Crv			
X	3/31/2019	22:37	NGC 4771	Galaxy	12:53.4	+1:16	3.7	12.3	Vir			
X	3/31/2019	23:01	NGC 4770	Galaxy	12:53.5	-9:31	1.5	13.0	Vir			
X	3/31/2019	22:38	NGC 4772	Galaxy	12:53.5	+2:10	2.7	11.0	Vir			
X	3/31/2019	23:01	NGC 4773	Galaxy	12:53.6	-8:38	1.3	14.1	Vir			
X	5/8/2018	23:28	NGC 4779	Galaxy	12:53.8	+9:44	1.9	12.4	Vir			
X	3/31/2019	23:03	NGC 4775	Galaxy	12:53.8	-6:37	2.0	11.1	Vir			
X	3/31/2019	23:04	NGC 4777	Galaxy	12:54.0	-8:47	1.8	13.7	Vir			
X	2/2/2019	1:36	NGC 4789	Galaxy	12:54.3	+27:04	1.0	12.1	Com			
X	3/21/2004	2:08	NGC 4781	Galaxy	12:54.4	-10:32	2.9	11.1	Vir	X		
X	3/31/2019	23:05	NGC 4786	Galaxy	12:54.5	-6:52	1.1	11.7	Vir			
X	7/12/2014	22:45	NGC 4800	Galaxy	12:54.6	+46:32	1.6	11.5	CVn			
X	1/18/2015	2:09	NGC 4801	Galaxy	12:54.6	+53:06		14.4	UMa			
X	3/31/2019	22:30	NGC 4782	Galaxy	12:54.6	-12:34	1.8	11.7	Crv			
X	3/31/2019	22:30	NGC 4783	Galaxy	12:54.6	-12:33	1.8	11.5	Crv			
X	3/31/2019	23:20	NGC 4784	Galaxy	12:54.6	-10:37		14.2	Vir			
X	3/31/2019	23:14	NGC 4793	Galaxy	12:54.6	+28:56	3.1	11.6	Com			X
X	3/31/2019	23:12	NGC 4790	Galaxy	12:54.9	-10:15	4.3	12.1	Vir			
X	5/8/2018	23:28	NGC 4795	Galaxy	12:55.0	+8:04	1.9	12.1	Vir			
X	2/2/2019	1:39	NGC 4798	Galaxy	12:55.0	+27:25	1.3	13.2	Com			X
X	3/31/2019	22:30	NGC 4794	Galaxy	12:55.2	-12:37	1.2	13.7	Crv			
X	3/31/2019	22:39	NGC 4799	Galaxy	12:55.3	+2:54	1.5	13.3	Vir			
X	1/27/2017	22:38	NGC 4814	Galaxy	12:55.4	+58:21	3.7	12.0	UMa			
X	3/31/2019	22:41	NGC 4808	Galaxy	12:55.8	+4:18	2.4	11.7	Vir			
X	3/31/2019	23:24	NGC 4816	Galaxy	12:56.2	+27:45	1.4	12.8	Com			X
X	3/31/2019	23:26	NGC 4834	Galaxy	12:56.4	+52:18		14.5	CVn			
X	3/31/2019	23:25	NGC 4819	Galaxy	12:56.5	+26:59	2.5	13.2	Com			
X	3/31/2019	23:06	NGC 4813	Galaxy	12:56.6	-6:48	1.3	13.7	Vir			
X	3/31/2019	23:28	NGC 4827	Galaxy	12:56.7	+27:11	0.5	12.9	Com			X
X	3/31/2019	23:29	NGC 4818	Galaxy	12:56.8	-8:31	3.4	11.1	Vir			
X	1/16/2017	21:11	NGC 4857	Galaxy	12:57.2	+70:12		13.8	Dra			
X	3/31/2019	23:13	NGC 4825	Galaxy	12:57.2	-13:40	1.4	12.1	Vir			

X	3/31/2019	23:31	NGC 4839	Galaxy	12:57.4	+27:30	1.7	12.1	Com			X
X	3/31/2019	23:31	NGC 4840	Galaxy	12:57.5	+27:37	4.1	13.7	Com			X
X	3/31/2019	23:31	NGC 4841A	Galaxy	12:57.5	+28:29	0.6	12.8	Com			
X	5/12/2010	1:52	NGC 4845	Galaxy	12:58.0	+1:35	4.8	11.2	Vir	X		
X	3/31/2019	23:34	NGC 4843	Galaxy	12:58.0	-3:37	2.0	13.0	Vir			
X	5/15/2012	1:10	NGC 4861	Galaxy	12:59.0	+34:52		12.3	CVn			
X	5/7/2004	23:01	NGC 4868	Galaxy	12:59.1	+37:19	3.5	12.2	CVn			
X	5/11/2010	2:40	NGC 4856	Galaxy	12:59.3	-15:02	3.1	10.5	Vir	X		
X	3/31/2019	23:36	NGC 4869	Galaxy	12:59.4	+27:55	2.4	13.8	Com			X
X	5/12/2010	2:47	NGC 4866	Galaxy	12:59.5	+14:10	5.5	11.2	Vir	X		
X	5/13/2010	2:15	NGC 4874	Galaxy	12:59.6	+27:58	1.5	11.7	Com			X
X	3/31/2019	23:37	NGC 4892	Galaxy	13:00.0	+26:54	2.8	13.9	Com			X
X	6/22/2009	23:29	NGC 4889	Galaxy	13:00.1	+27:58	1.2	11.5	Com			X
X	3/18/2007	0:41	NGC 4880	Galaxy	13:00.2	+12:29	0.3	11.4	Vir		X	
X	3/31/2019	23:38	NGC 4878	Galaxy	13:00.3	-6:05	1.3	13.7	Vir			
X	5/27/2014	23:46	NGC 4877	Galaxy	13:00.4	-15:17	1.9	12.4	Vir			
X	3/31/2019	23:07	NGC 4879	Galaxy	13:00.5	-6:03	1.2	14.2	Vir			
X	3/21/2004	2:15	NGC 4900	Galaxy	13:00.6	+2:30	2.3	11.4	Vir	X		
X	3/17/2007	0:40	NGC 4890	Galaxy	13:00.6	-4:34	1.0	11.9	Vir			
X	3/18/2007	4:35	NGC 4914	Galaxy	13:00.7	+37:19	3.7	11.6	CVn		X	
X	5/13/2010	2:15	NGC 4911	Galaxy	13:00.9	+27:47	2.3	12.8	Com			X
X	3/31/2019	23:40	NGC 4899	Galaxy	13:00.9	-13:57	3.2	11.9	Vir			
X	5/24/2006	22:56	NGC 4902	Galaxy	13:01.0	-14:31	2.5	10.9	Vir		X	
X	3/17/2007	0:53	NGC 4904	Galaxy	13:01.0	-0:02	2.2	12.0	Vir		X	
X	3/31/2019	23:41	NGC 4908	Galaxy	13:01.0	28:02	0.8	13	Com			X
X	5/13/2010	2:15	NGC 4921	Galaxy	13:01.4	+27:53	0.9	12.2	Com			X
X	3/17/2007	0:40	NGC 4915	Galaxy	13:01.5	-4:33	1.7	12.1	Vir		X	
X	3/31/2019	23:41	NGC 4923	Galaxy	13:01.5	+27:51	1.5	13.7	Com			X
X	3/31/2019	23:41	NGC 4927	Galaxy	13:02.0	+28:00	1.1	13.7	Com			X
X	3/31/2019	23:11	NGC 4925	Galaxy	13:02.1	-7:42	1.2	14.3	Vir			
X	3/31/2019	23:46	NGC 4932	Galaxy	13:02.6	+50:27		13.6	CVn			
X	3/17/2007	0:18	NGC 4928	Galaxy	13:03.0	-8:05	1.2	12.5	Vir		X	
X	4/1/2019	0:54	NGC 4944	Galaxy	13:03.8	+28:11	1.3	12.9	Com			X
X	5/13/2010	22:19	NGC 4933A	Galaxy	13:03.9	-11:30	2.8	11.7	Vir			
X	3/16/2007	23:53	NGC 4939	Galaxy	13:04.2	-10:20	2.0	11.3	Vir		X	
X	3/17/2007	0:35	NGC 4941	Galaxy	13:04.2	-5:33	3.7	11.1	Vir		X	
X	3/31/2019	23:10	NGC 4942	Galaxy	13:04.3	-7:39	1.9	13.8	Vir			
X	4/1/2019	1:00	NGC 4952	Galaxy	13:05.0	+29:08	1.1	12.4	Com			X
X	3/18/2007	4:38	NGC 4956	Galaxy	13:05.1	+35:11	1.6	12.4	CVn		X	
X	4/8/2013	0:09	NGC 4951	Galaxy	13:05.1	-6:30	3.2	11.9	Vir			
X	4/1/2019	1:01	NGC 4957	Galaxy	13:05.2	+27:34	1.5	13.0	Com			X
X	3/31/2019	23:55	NGC 4964	Galaxy	13:05.4	+56:18		13.2	UMa			
X	1/18/2015	2:23	NGC 4973	Galaxy	13:05.5	+53:41		13.3	UMa			
X	1/18/2015	2:23	NGC 4967	Galaxy	13:05.7	+53:34		14.2	UMa			
X	3/21/2004	2:04	NGC 4958	Galaxy	13:05.8	-8:01	3.6	10.7	Vir	X		
X	4/1/2019	1:01	NGC 4961	Galaxy	13:05.8	+27:44	1.0	13.6	Com			X
X	4/1/2019	0:05	NGC 4963	Galaxy	13:05.8	+41:43	6.9	13.2	CVn			
X	4/1/2019	1:03	NGC 4974	Galaxy	13:05.9	+53:40		14.7	UMa			
X	3/31/2019	23:54	NGC 4977	Galaxy	13:06.2	+55:39		13.3	UMa			
X	4/1/2019	1:03	NGC 4966	Galaxy	13:06.3	+29:04	1.6	13.3	Com			
X	4/1/2019	0:56	NGC 4970	Galaxy	13:07.5	-24:02		12.2	Hya			
X	4/1/2019	1:04	NGC 4979	Galaxy	13:07.6	+24:49	1.5	13.8	Com			
X	3/31/2019	23:50	NGC 4987	Galaxy	13:08.0	+51:56	1.0	13.4	CVn			
X	4/1/2019	0:06	NGC 4985	Galaxy	13:08.1	+41:41	1.0	13.7	CVn			
X	3/31/2019	23:48	NGC 4998	Galaxy	13:08.2	+50:40		14.1	CVn			

X	4/1/2019	0:55	NGC 4983	Galaxy	13:08.4	+28:19	1.6	13.9	Com			X
X	4/1/2019	0:24	NGC 4986	Galaxy	13:08.4	+35:12	1.5	13.2	CVn			
X	4/1/2019	0:04	NGC 5003	Galaxy	13:08.6	+43:44	1.0	13.4	CVn			
X	4/6/2016	2:35	NGC 4981	Galaxy	13:08.8	-6:47	2.7	11.3	Vir		X	
X	5/24/2006	23:08	NGC 4984	Galaxy	13:09.0	-15:31	1.5	11.3	Vir		X	
X	3/15/2018	22:03	NGC 5007	Galaxy	13:09.3	+62:10		13.3	UMa			
X	3/31/2019	23:08	NGC 4989	Galaxy	13:09.4	-5:25	1.7	12.8	Vir			
X	3/17/2007	0:59	NGC 4999	Galaxy	13:09.6	+1:40	2.1	11.8	Vir		X	
X	3/21/2004	2:01	NGC 4995	Galaxy	13:09.7	-7:50	2.5	11.1	Vir	X		
X	4/7/2013	1:36	NGC 4993	Galaxy	13:09.7	-23:24		12.3	Hya			
X	4/1/2019	1:05	NGC 5000	Galaxy	13:09.8	+28:54	2.0	13.2	Com			X
X	3/31/2019	23:51	NGC 5009	Galaxy	13:10.8	+50:05		14.5	CVn			
X	7/11/2004	0:11	NGC 5005	Galaxy	13:10.9	+37:03	5.8	9.8	CVn	X		
X	4/1/2019	0:52	NGC 5004	Galaxy	13:11.1	+29:38	1.7	12.9	Com			
X	5/27/2014	22:37	NGC 5014	Galaxy	13:11.5	+36:17	1.2	12.8	CVn			
X	3/18/2007	0:50	NGC 5012	Galaxy	13:11.6	+22:55	2.7	12.2	Com		X	
X	1/22/2012	1:47	NGC 5016	Galaxy	13:12.1	+24:06	0.9	12.8	Com			
X	1/24/2012	1:23	NGC 5023	Galaxy	13:12.2	+44:02	1.4	12.3	CVn		X	
X	8/4/2012	22:16	NGC 5034	Galaxy	13:12.2	+70:39		13.2	UMi			
X	4/8/2013	0:37	NGC 5015	Galaxy	13:12.4	-4:19	2.1	12.1	Vir			
X	3/18/2007	0:38	NGC 5020	Galaxy	13:12.6	+12:36	1.5	11.7	Vir		X	
X	3/31/2019	22:43	NGC 5019	Galaxy	13:12.8	+4:44	0.8	13.5	Vir			
X	4/1/2019	0:48	NGC 5025	Galaxy	13:12.8	+31:48	1.5	13.4	CVn			
X	5/27/2014	23:44	NGC 5017	Galaxy	13:12.9	-16:46	2.5	12.6	Vir			
X	5/14/2012	23:04	NGC 5018	Galaxy	13:13.0	-19:31	6.3	10.8	Vir		X	
X	7/11/2004	0:15	NGC 5033	Galaxy	13:13.4	+36:36	10.5	10.2	CVn	X		
X	4/1/2019	1:08	NGC 5032	Galaxy	13:13.4	+27:48	2.1	12.8	Com			X
X	3/31/2019	23:52	NGC 5040	Galaxy	13:13.6	+51:16	1.0	14.1	CVn			
X	3/21/2004	1:44	NGC 5037	Galaxy	13:15.0	-16:35	3.0	12.2	Vir		X	
X	4/1/2005	22:44	NGC 5044	Galaxy	13:15.4	-16:23	1.7	10.8	Vir		X	
X	3/21/2004	1:44	NGC 5047	Galaxy	13:15.8	-16:31	2.0	12.7	Vir			
X	3/21/2004	1:44	NGC 5049	Galaxy	13:16.0	-16:24	4.8	13.0	Vir			
X	3/18/2007	4:46	NGC 5056	Galaxy	13:16.2	+30:56	1.2	13.1	Com		X	
X	5/6/2005	22:27	NGC 5053	Globular Cluster	13:16.4	+17:42	10.5	9.8	Com		X	
X	4/1/2019	0:50	NGC 5057	Galaxy	13:16.5	+31:01	1.4	13.0	Com			
X	3/21/2004	1:44	NGC 5054	Galaxy	13:17.0	-16:38		10.9	Vir	X		
X	4/1/2019	0:50	NGC 5065	Galaxy	13:17.6	+31:04	0.7	13.6	Com			
X	5/11/2010	0:00	NGC 5061	Galaxy	13:18.1	-26:50	4.1	10.2	Hya		X	
X	4/1/2019	0:47	NGC 5074	Galaxy	13:18.4	+31:28	0.8	14.0	CVn			
X	5/24/2006	22:49	NGC 5068	Galaxy	13:18.9	-21:02	11.0	9.6	Vir		X	
X	5/13/2010	1:11	NGC 5076	Galaxy	13:19.4	-12:45	1.4	13.2	Vir			
X	5/14/2012	23:25	NGC 5073	Galaxy	13:19.4	-14:52	0.9	12.3	Vir			
X	4/1/2005	22:39	NGC 5077	Galaxy	13:19.5	-12:39	1.6	11.3	Vir		X	
X	5/13/2010	1:11	NGC 5079	Galaxy	13:19.6	-12:42	1.9	13.0	Vir			
X	4/1/2019	0:51	NGC 5089	Galaxy	13:19.6	+30:15	2.3	13.0	Com			
X	4/1/2019	0:08	NGC 5093	Galaxy	13:19.6	+40:23	1.8	13.7	CVn			
X	4/6/2016	22:33	NGC 5078	Galaxy	13:19.8	-27:24	6.0	10.6	Hya		X	
X	4/1/2019	0:39	NGC 5096	Galaxy	13:20.2	+33:05	1.5	13.8	CVn			
X	5/24/2006	22:42	NGC 5084	Galaxy	13:20.3	-21:50	2.8	10.4	Vir		X	
X	4/7/2013	1:39	NGC 5085	Galaxy	13:20.3	-24:26	2.7	11.3	Hya			
X	5/24/2006	22:49	NGC 5087	Galaxy	13:20.4	-20:37	5.2	11.0	Vir		X	
X	3/18/2007	4:35	NGC 5103	Galaxy	13:20.5	+43:04	1.3	12.6	CVn		X	
X	4/1/2019	1:10	NGC 5094	Galaxy	13:20.7	-14:05	1.3	13.2	Vir			
X	1/18/2015	2:35	NGC 5109	Galaxy	13:20.9	+57:39	2.1	12.8	UMa			
X	1/18/2015	2:35	NGC 5113	Galaxy	13:21.4	+57:42		14.3	UMa			

X	4/1/2019	0:22	NGC 5107	Galaxy	13:21.4	+38:32	1.4	13.2	CVn			
X	4/6/2016	22:33	NGC 5101	Galaxy	13:21.8	-27:26		10.4	Hya			
X	5/27/2014	22:44	NGC 5112	Galaxy	13:21.9	+38:44		12.1	CVn			
X	5/27/2014	23:41	NGC 5111	Galaxy	13:22.8	-12:58	1.4	11.7	Vir			
X	6/30/2014	0:24	NGC 5144	Galaxy	13:22.9	+70:31		13.1	UMi			
X	4/1/2019	1:11	NGC 5116	Galaxy	13:22.9	+26:59	0.7	12.7	Com			X
X	5/27/2014	22:47	NGC 5123	Galaxy	13:23.2	+43:04	2.1	12.8	CVn			
X	3/31/2019	22:44	NGC 5118	Galaxy	13:23.5	+6:23	0.8	13.7	Vir			
X	4/1/2019	0:46	NGC 5127	Galaxy	13:23.8	+31:34	1.6	11.9	CVn			
X	5/12/2010	0:33	NGC 5129	Galaxy	13:24.1	+13:59	3.2	12.1	Vir		X	
X	3/11/2019	4:39	NGC 5136	Galaxy	13:24.8	+13:44		14.0	Vir			
X	5/27/2014	22:41	NGC 5141	Galaxy	13:24.9	+36:23	1.0	12.8	CVn			
X	5/27/2014	22:41	NGC 5142	Galaxy	13:25.0	+36:24	1.5	13.3	CVn			
X	5/27/2014	22:50	NGC 5145	Galaxy	13:25.2	+43:15	1.7	12.3	CVn			
X	5/24/2006	22:45	NGC 5134	Galaxy	13:25.3	-21:08	1.7	11.2	Vir		X	
X	4/1/2019	0:25	NGC 5149	Galaxy	13:26.1	+35:56	1.3	12.9	CVn			
X	5/28/2014	0:03	NGC 5147	Galaxy	13:26.3	+2:06	1.6	11.8	Vir			
X	4/1/2019	0:25	NGC 5154	Galaxy	13:26.4	+36:00	0.9	13.8	CVn			
X	4/1/2019	1:12	NGC 5146	Galaxy	13:26.5	-12:19	3.2	12.3	Vir			
X	1/18/2015	2:32	NGC 5163	Galaxy	13:26.9	+52:45		13.6	UMa			
X	1/18/2015	2:41	NGC 5164	Galaxy	13:27.2	+55:29		13.7	UMa			
X	4/1/2019	0:45	NGC 5157	Galaxy	13:27.4	+32:01	1.7	13.2	CVn			
X	5/28/2014	0:36	NGC 5173	Galaxy	13:28.4	+46:36	1.1	12.1	CVn			
X	4/1/2019	0:00	NGC 5201	Galaxy	13:29.2	+53:04	1.3	13.1	UMa			
X	5/27/2014	23:57	NGC 5174	Galaxy	13:29.3	+11:00	3.4	12.4	Vir			
X	5/27/2014	23:57	NGC 5175	Galaxy	13:29.3	+11:00	1.6	12.4	Vir			
X	3/11/2019	4:25	NGC 5180	Galaxy	13:29.4	+16:49	1.2	13.0	Com			
X	4/21/2009	23:26	NGC 5204	Galaxy	13:29.6	+58:25		11.3	UMa		X	
X	5/14/2012	23:17	NGC 5170	Galaxy	13:29.8	-17:58	4.6	11.3	Vir			
X	4/1/2019	0:49	NGC 5187	Galaxy	13:29.9	+31:07	1.6	13.3	CVn			
X	5/12/1988	1:48	NGC 5195	Galaxy	13:30.0	+47:16	6.4	9.6	CVn	X		
X	3/11/2019	4:35	NGC 5185	Galaxy	13:30.0	+13:25	1.7	13.3	Vir			
X	4/1/2019	1:15	NGC 5183	Galaxy	13:30.1	-1:44	1.8	12.7	Vir			
X	5/28/2014	0:36	NGC 5198	Galaxy	13:30.2	+46:40	1.3	11.8	CVn			
X	4/1/2019	1:15	NGC 5184	Galaxy	13:30.2	-1:41	2.0	12.6	Vir			
X	4/1/2019	1:16	NGC 5199	Galaxy	13:30.6	+34:49	1.5	14.0	CVn			
X	2/25/2009	0:15	NGC 5216	Galaxy	13:32.1	+62:42	1.8	12.6	UMa			
X	2/25/2009	0:15	NGC 5218	Galaxy	13:32.2	+62:46	1.4	12.3	UMa			
X	4/1/2019	1:14	NGC 5203	Galaxy	13:32.2	-8:48	1.5	12.5	Vir			
X	3/11/2019	4:32	NGC 5207	Galaxy	13:32.2	+13:54	1.6	13.2	Vir			
X	3/31/2019	22:46	NGC 5208	Galaxy	13:32.5	+7:19	1.6	13.1	Vir			
X	3/31/2019	22:47	NGC 5209	Galaxy	13:32.7	+7:20	1.2	13.0	Vir			
X	4/1/2019	0:10	NGC 5214	Galaxy	13:32.8	+41:52	2.0	13.6	CVn			
X	3/31/2019	22:48	NGC 5210	Galaxy	13:32.9	+7:10	1.6	12.9	Vir			
X	4/1/2019	0:01	NGC 5225	Galaxy	13:33.3	+51:30		13.5	CVn			
X	4/1/2019	0:37	NGC 5223	Galaxy	13:34.4	+34:42	1.0	13.0	CVn			
X	4/1/2019	0:37	NGC 5228	Galaxy	13:34.5	+34:46	1.9	13.3	CVn			
X	4/21/2009	23:20	NGC 5238	Galaxy	13:34.7	+51:37		13.4	CVn			
X	4/1/2019	1:18	NGC 5221	Galaxy	13:34.9	+13:49	1.9	13.0	Vir			
X	4/1/2019	1:18	NGC 5222	Galaxy	13:34.9	+13:44	2.7	13.1	Vir			
X	4/1/2019	0:37	NGC 5233	Galaxy	13:35.1	+34:40		13.9	CVn			
X	4/1/2019	1:19	NGC 5224	Galaxy	13:35.2	+6:28	0.7	14.0	Vir			
X	4/1/2019	1:20	NGC 5227	Galaxy	13:35.3	+1:25	1.5	13.1	Vir			
X	5/27/2014	23:51	NGC 5230	Galaxy	13:35.5	+13:40		12.1	Vir			
X	4/1/2019	0:26	NGC 5240	Galaxy	13:35.9	+35:34	0.6	13.1	CVn			

X	4/1/2019	1:21	NGC 5250	Galaxy	13:36.0	+51:14	1.7	13.0	UMa			
X	4/1/2019	1:22	NGC 5235	Galaxy	13:36.1	+6:34	1.1	14.0	Vir			
X	4/1/2019	0:20	NGC 5243	Galaxy	13:36.2	+38:21	1.5	13.1	CVn			
X	3/31/2019	22:47	NGC 5239	Galaxy	13:36.5	+7:22	1.9	12.8	Boo			
X	1/18/2015	2:52	NGC 5255	Galaxy	13:37.3	+57:06		14.4	UMa			
X	8/8/2002	21:37	NGC 5248	Galaxy	13:37.5	+8:53	6.2	10.3	Boo	X		
X	4/1/2019	1:25	NGC 5251	Galaxy	13:37.5	+27:25	1.5	13.8	Boo			X
X	3/11/2019	4:22	NGC 5249	Galaxy	13:37.6	+15:58	1.6	12.9	Boo			
X	5/11/2010	2:34	NGC 5247	Galaxy	13:38.1	-17:53	1.1	10.1	Vir			
X	4/1/2019	1:26	NGC 5252	Galaxy	13:38.3	+4:31	1.5	13.0	Vir			
X	4/1/2019	0:02	NGC 5256	Galaxy	13:38.3	+48:17	1.0	13.2	UMa			
X	1/27/2017	0:28	NGC 5295	Galaxy	13:38.6	+79:27		13.8	Cam			
X	5/11/2010	0:53	NGC 5253	Galaxy	13:39.9	-31:39	2.3	10.6	Cen			
X	4/1/2019	1:27	NGC 5257	Galaxy	13:39.9	+0:50	1.6	12.9	Vir			
X	4/1/2019	1:27	NGC 5258	Galaxy	13:40.0	+0:50	1.6	12.9	Vir			
X	4/1/2019	1:28	NGC 5263	Galaxy	13:40.0	+28:24	1.0	13.3	CVn			X
X	4/1/2019	0:27	NGC 5265	Galaxy	13:40.1	+36:51	1.2	13.9	CVn			
X	3/31/2019	23:57	NGC 5278	Galaxy	13:41.6	+55:40	3.0	12.7	UMa			
X	7/12/2004	22:40	NGC 5273	Galaxy	13:42.1	+35:39	2.8	11.6	CVn	X		
X	4/1/2019	0:11	NGC 5289	Galaxy	13:45.1	+41:30	3.3	13.0	CVn			
X	1/18/2015	2:46	NGC 5294	Galaxy	13:45.2	+55:17		14.2	UMa			
X	5/27/2014	22:57	NGC 5290	Galaxy	13:45.3	+41:43	3.3	12.5	CVn			
X	1/27/2017	19:35	NGC 5323	Galaxy	13:45.5	+76:51	3.0	13.5	UMi			
X	6/23/2009	0:28	NGC 5297	Galaxy	13:46.4	+43:52	5.3	11.8	CVn			
X	5/28/2014	0:31	NGC 5301	Galaxy	13:46.4	+46:06	2.0	12.7	CVn			
X	3/11/2019	4:19	NGC 5293	Galaxy	13:46.9	+16:16	2.4	13.1	Boo			
X	4/21/2006	2:15	NGC 5308	Galaxy	13:47.0	+60:58	6.1	11.4	UMa		X	
X	5/28/2014	0:24	NGC 5303	Galaxy	13:47.8	+38:18	0.9	12.6	CVn			
X	4/1/2019	0:19	NGC 5305	Galaxy	13:47.9	+37:50	1.1	13.6	CVn			
X	7/20/2012	22:02	NGC 5300	Galaxy	13:48.3	+3:57	3.5	11.4	Vir			
X	5/27/2014	22:56	NGC 5311	Galaxy	13:49.0	+40:00	1.5	12.3	CVn			
X	5/13/2010	1:32	NGC 5306	Galaxy	13:49.1	-7:12	1.3	12.1	Vir			
X	4/27/2003	1:34	NGC 5322	Galaxy	13:49.3	+60:12	3.9	10.2	UMa	X		
X	6/23/2009	0:49	NGC 5313	Galaxy	13:49.7	+39:59	2.0	12.0	CVn			
X	4/1/2019	0:40	NGC 5312	Galaxy	13:49.8	+33:38	1.5	13.9	CVn			
X	6/23/2009	1:03	NGC 5320	Galaxy	13:50.3	+41:22	1.5	12.1	CVn			
X	5/28/2014	0:20	NGC 5318	Galaxy	13:50.5	+33:43	1.6	12.6	CVn			
X	6/23/2009	0:49	NGC 5326	Galaxy	13:50.8	+39:34	2.1	11.9	CVn			
X	3/19/2015	1:03	NGC 5342	Galaxy	13:51.4	+59:53		13.5	UMa			
X	7/20/2012	21:56	NGC 5324	Galaxy	13:52.1	-6:03	2.1	11.7	Vir			
X	4/1/2019	1:29	NGC 5327	Galaxy	13:52.1	-2:12	1.9	12.6	Vir			
X	4/1/2019	1:30	NGC 5336	Galaxy	13:52.1	+43:15	2.2	12.8	CVn			
X	4/1/2019	1:31	NGC 5329	Galaxy	13:52.2	+2:20	1.5	12.4	Vir			
X	4/1/2019	1:31	NGC 5331	Galaxy	13:52.4	+2:06	1.3	14.1	Vir			
X	5/27/2014	22:59	NGC 5337	Galaxy	13:52.5	+39:42	1.2	12.5	CVn			
X	7/20/2012	3:17	NGC 5334	Galaxy	13:52.9	-1:07	4.1	11.3	Vir			
X	4/1/2019	0:57	NGC 5328	Galaxy	13:52.9	-28:29		11.8	Hya			
X	7/20/2012	22:23	NGC 5347	Galaxy	13:53.3	+33:29		12.6	CVn			
X	6/23/2009	0:49	NGC 5350	Galaxy	13:53.4	+40:22	2.8	11.3	CVn			
X	6/23/2009	0:49	NGC 5351	Galaxy	13:53.5	+37:55	1.8	12.1	CVn			
X	6/23/2009	0:49	NGC 5353	Galaxy	13:53.5	+40:17	2.2	11.0	CVn			
X	6/23/2009	0:49	NGC 5354	Galaxy	13:53.5	+40:18	4.1	11.4	CVn			
X	4/1/2019	0:34	NGC 5352	Galaxy	13:53.6	+36:09	2.9	13.0	CVn			
X	4/1/2019	0:15	NGC 5355	Galaxy	13:53.8	+40:21	6.9	13.1	CVn			
X	4/1/2019	1:32	NGC 5343	Galaxy	13:54.0	-7:34	1.7	12.7	Vir			

X	4/1/2019	1:33	NGC 5370	Galaxy	13:54.1	+60:41	1.6	13.2	UMa			
X	4/1/2019	1:35	NGC 5345	Galaxy	13:54.3	-1:25	1.8	12.4	Vir			
X	8/17/2014	22:23	NGC 5452	Galaxy	13:54.5	+78:13		13.3	UMi			
X	3/31/2019	23:58	NGC 5368	Galaxy	13:54.5	+54:20		13.0	UMa			
X	6/30/2014	0:59	NGC 5372	Galaxy	13:54.7	+58:41		13.2	UMa			
X	4/1/2019	0:18	NGC 5361	Galaxy	13:54.7	+38:27	2.9	13.8	CVn			
X	4/1/2019	0:12	NGC 5362	Galaxy	13:54.9	+41:19	1.5	12.3	CVn			
X	4/1/2019	1:40	NGC 5356	Galaxy	13:55.0	+5:20	2.7	12.6	Vir			
X	3/21/2004	1:28	NGC 5376	Galaxy	13:55.3	+59:30	1.9	12.1	UMa			
X	1/24/2014	2:15	NGC 5379	Galaxy	13:55.6	+59:45	4.6	12.9	UMa			
X	3/12/2007	1:30	NGC 5371	Galaxy	13:55.7	+40:28	2.4	10.6	CVn		X	
X	3/21/2004	1:18	NGC 5363	Galaxy	13:56.1	+5:15	5.0	10.1	Vir	X		
X	6/30/2014	0:57	NGC 5389	Galaxy	13:56.1	+59:44	9.8	12.0	UMa			
X	3/21/2004	1:18	NGC 5364	Galaxy	13:56.2	+5:01	6.6	10.5	Vir	X		
X	5/28/2014	0:32	NGC 5377	Galaxy	13:56.3	+47:14	4.1	11.3	CVn			
X	4/1/2019	1:41	NGC 5369	Galaxy	13:56.8	-5:29	1.0	13.6	Vir			
X	5/28/2014	0:22	NGC 5380	Galaxy	13:56.9	+37:37	1.7	12.3	CVn			
X	3/12/2007	1:37	NGC 5383	Galaxy	13:57.1	+41:51	3.2	11.4	CVn		X	
X	4/1/2019	1:42	NGC 5374	Galaxy	13:57.5	+6:06	1.6	12.5	Vir			
X	5/28/2014	0:06	NGC 5382	Galaxy	13:58.2	+6:16	1.5	12.6	Vir			
X	5/28/2014	0:06	NGC 5386	Galaxy	13:58.2	+6:21	1.0	13.2	Vir			
X	4/1/2019	1:43	NGC 5402	Galaxy	13:58.2	+59:49		13.7	UMa			
X	6/29/2008	22:31	NGC 5394	Galaxy	13:58.6	+37:27	1.7	13.0	CVn			
X	6/29/2008	22:31	NGC 5395	Galaxy	13:58.6	+37:25	2.7	11.4	CVn			
X	4/1/2019	1:44	NGC 5392	Galaxy	13:59.4	-3:12	1.1	13.4	Vir			
X	4/1/2019	0:35	NGC 5399	Galaxy	13:59.5	+34:47	1.5	13.8	CVn			
X	4/1/2019	0:32	NGC 5401	Galaxy	13:59.7	+36:15	1.7	13.7	CVn			
X	4/1/2019	0:17	NGC 5403	Galaxy	13:59.9	+38:11	1.3	13.6	CVn			
X	7/20/2012	22:32	NGC 5406	Galaxy	14:00.3	+38:55	1.7	12.3	CVn			
X	4/1/2019	1:44	NGC 5400	Galaxy	14:00.6	-2:51	1.5	12.9	Vir			
X	7/3/2013	22:10	NGC 5422	Galaxy	14:00.7	+55:10	2.6	11.8	UMa			
X	4/1/2019	0:13	NGC 5410	Galaxy	14:00.7	+41:00	2.7	13.0	CVn			
X	6/23/2006	23:06	NGC 5430	Galaxy	14:00.8	+59:20	1.6	11.9	UMa		X	
X	4/1/2019	0:16	NGC 5407	Galaxy	14:00.9	+39:09	1.4	13.2	CVn			
X	5/28/2014	0:08	NGC 5416	Galaxy	14:02.1	+9:27	1.4	13.3	Boo			
X	4/1/2019	1:45	NGC 5417	Galaxy	14:02.1	+8:03	1.4	13.0	Boo			
X	6/23/2006	22:50	NGC 5443	Galaxy	14:02.2	+55:49	1.9	12.3	UMa		X	
X	6/23/2006	22:21	NGC 5447	Knot in Galaxy	14:02.5	+54:17			UMa		X	
X	4/1/2019	0:41	NGC 5433	Galaxy	14:02.5	+32:31	1.3	13.6	CVn			
X	6/24/2006	0:28	NGC 5448	Galaxy	14:02.8	+49:10	1.6	11.0	UMa		X	
X	6/24/2006	1:44	NGC 5440	Galaxy	14:03.0	+34:46	2.5	12.3	CVn		X	
X	5/25/2006	0:18	NGC 5426	Galaxy	14:03.4	-6:04	2.3	12.1	Vir		X	
X	5/25/2006	0:18	NGC 5427	Galaxy	14:03.4	-6:02	2.6	11.4	Vir			
X	6/24/2006	1:19	NGC 5444	Galaxy	14:03.4	+35:08	3.4	11.8	CVn		X	
X	3/12/2007	1:44	NGC 5445	Galaxy	14:03.5	+35:02	5.7	13.0	CVn		X	
X	3/19/2015	1:07	NGC 5461	Knot in Galaxy	14:03.7	+54:19			UMa			
X	6/23/2006	22:21	NGC 5462	Knot in Galaxy	14:03.9	+54:22			UMa		X	
X	4/27/2003	1:36	NGC 5473	Galaxy	14:04.7	+54:54	2.7	11.4	UMa	X		
X	4/27/2003	1:38	NGC 5474	Galaxy	14:05.0	+53:40	6.0	10.8	UMa	X		
X	4/1/2019	1:46	NGC 5446	Galaxy	14:05.1	+9:37		14.5	Boo			
X	6/30/2014	1:01	NGC 5475	Galaxy	14:05.2	+55:45	1.4	12.6	UMa			
X	8/8/2002	21:44	NGC 5466	Globular Cluster	14:05.5	+28:32	11.0	9.1	Boo	X		
X	4/21/2009	23:39	NGC 5477	Galaxy	14:05.6	+54:28		14.0	UMa			
X	4/1/2019	1:47	NGC 5463	Galaxy	14:06.1	+9:22	1.1	13.0	Boo			
X	6/23/2006	23:53	NGC 5480	Galaxy	14:06.4	+50:43	1.8	12.1	UMa		X	

X	7/20/2012	21:48	NGC 5468	Galaxy	14:06.6	-5:27	2.6	12.5	Vir			
X	6/23/2006	23:53	NGC 5481	Galaxy	14:06.7	+50:43	1.3	12.2	Boo		X	
X	3/18/2015	23:15	NGC 5484	Galaxy	14:06.8	+55:02		14.7	UMa			
X	6/23/2006	22:38	NGC 5485	Galaxy	14:07.2	+55:00	4.9	11.4	UMa		X	
X	3/18/2015	23:15	NGC 5486	Galaxy	14:07.4	+55:06	1.3	13.3	UMa			
X	4/1/2019	1:48	NGC 5476	Galaxy	14:08.2	-6:05	1.7	12.2	Vir			
X	4/1/2019	1:49	NGC 5478	Galaxy	14:08.2	-1:42	1.1	13.6	Vir			
X	4/1/2019	1:50	NGC 5482	Galaxy	14:08.4	+8:56	1.2	12.9	Boo			
X	1/27/2017	21:55	NGC 5547	Galaxy	14:09.8	+78:36		13.5	UMi			
X	4/1/2005	23:45	NGC 5490	Galaxy	14:10.0	+17:33		12.1	Boo		X	
X	3/11/2019	1:28	NGC 5500	Galaxy	14:10.2	+48:33	2.7	13.3	Boo			
X	3/11/2019	4:17	NGC 5492	Galaxy	14:10.5	+19:37	1.9	12.8	Boo			
X	4/1/2019	1:51	NGC 5491A	Galaxy	14:10.9	+6:22	1.4	12.8	Vir			
X	5/25/2006	0:23	NGC 5493	Galaxy	14:11.5	-5:03	1.5	11.4	Vir		X	
X	6/24/2006	0:00	NGC 5520	Galaxy	14:12.3	+50:22	1.6	12.4	Boo		X	
X	3/28/2014	1:56	NGC 5515	Galaxy	14:12.5	+39:18	1.4	12.9	Boo			
X	5/25/2006	0:28	NGC 5506	Galaxy	14:13.2	-3:13	2.7	11.9	Vir		X	
X	3/11/2019	4:12	NGC 5513	Galaxy	14:13.2	+20:26	2.1	12.6	Boo			
X	5/25/2006	0:28	NGC 5507	Galaxy	14:13.3	-3:09	1.5	12.5	Vir		X	
X	1/24/2012	1:09	NGC 5526	Galaxy	14:13.9	+57:46		13.5	UMa			
X	4/2/2005	0:08	NGC 5523	Galaxy	14:14.8	+25:19	1.1	12.1	Boo		X	
X	1/18/2015	2:56	NGC 5540	Galaxy	14:14.8	+60:00		13.9	UMa			
X	3/11/2019	3:52	NGC 5522	Galaxy	14:14.8	+15:09	0.8	13.5	Boo			
X	6/24/2006	0:57	NGC 5529	Galaxy	14:15.6	+36:13	1.7	11.9	Boo		X	
X	6/24/2006	0:43	NGC 5533	Galaxy	14:16.1	+35:21	0.9	11.8	Boo		X	
X	5/28/2014	0:26	NGC 5536	Galaxy	14:16.3	+39:30	0.8	13.5	Boo			
X	5/28/2014	0:26	NGC 5541	Galaxy	14:16.4	+39:35	1.5	12.8	Boo			
X	5/28/2014	0:26	NGC 5532	Galaxy	14:16.9	+10:48	1.0	11.9	Boo			
X	6/29/2008	22:25	NGC 5544	Galaxy	14:17.0	+36:34	2.7	13.4	Boo			
X	4/2/2005	0:08	NGC 5548	Galaxy	14:18.0	+25:08		12.6	Boo		X	
X	4/1/2019	1:52	NGC 5546	Galaxy	14:18.1	+7:34	1.3	12.3	Boo			
X	8/8/2002	21:48	NGC 5557	Galaxy	14:18.4	+36:30	2.2	11.0	Boo	X		
X	4/1/2019	1:52	NGC 5549	Galaxy	14:18.5	+7:22	1.5	12.8	Vir			
X	3/11/2019	3:08	NGC 5559	Galaxy	14:19.1	+24:48		14.0	Boo			
X	8/4/2015	22:14	NGC 5607	Galaxy	14:19.4	+71:35	3.4	13.4	UMi			
X	4/1/2019	1:53	NGC 5570	Galaxy	14:19.4	+7:26		14.4	Boo			
X	6/23/2006	23:01	NGC 5585	Galaxy	14:19.8	+56:44	1.8	10.7	UMa		X	
X	3/21/2004	1:28	NGC 5560	Galaxy	14:20.1	+4:00	3.9	12.4	Vir		X	
X	8/1/2008	22:01	NGC 5566	Galaxy	14:20.3	+3:56	5.7	10.6	Vir	X		
X	3/11/2019	2:49	NGC 5579	Galaxy	14:20.5	+35:11	1.2	13.6	Boo			
X	3/12/2007	1:22	NGC 5582	Galaxy	14:20.7	+39:42	2.4	11.6	Boo		X	
X	1/27/2017	20:00	NGC 5640	Galaxy	14:20.8	+80:06		14.4	Cam			
X	3/21/2004	1:28	NGC 5574	Galaxy	14:20.9	+3:14	1.1	12.4	Vir			
X	3/21/2004	1:28	NGC 5576	Galaxy	14:21.1	+3:16	3.0	11.0	Vir	X		
X	3/11/2019	2:49	NGC 5589	Galaxy	14:21.5	+35:15	1.8	13.3	Boo			
X	6/24/2006	0:48	NGC 5590	Galaxy	14:21.7	+35:11	1.2	12.3	Boo		X	
X	3/11/2019	3:49	NGC 5587	Galaxy	14:22.2	+13:55		12.5	Boo			
X	6/24/2006	0:04	NGC 5602	Galaxy	14:22.3	+50:31	2.9	12.7	Boo		X	
X	1/27/2017	22:11	NGC 5620	Galaxy	14:22.5	+69:34	1.7	14.0	UMi			
X	4/1/2019	1:54	NGC 5596	Galaxy	14:22.5	+37:07	2.2	13.4	Boo			
X	4/1/2019	1:55	NGC 5598	Galaxy	14:22.5	+40:19	1.4	13.0	Boo			
X	4/1/2019	1:55	NGC 5603	Galaxy	14:23.1	+40:22	0.8	13.0	Boo			
X	6/26/2016	23:42	NGC 5594	Galaxy	14:23.2	+26:15	2.0	14.0	Boo			
X	5/29/2014	0:20	NGC 5608	Galaxy	14:23.3	+41:46	2.3	13.4	Boo			
X	4/1/2019	1:56	NGC 5599	Galaxy	14:23.7	+6:34	1.4	13.6	Vir			

X	4/1/2005	23:34	NGC 5600	Galaxy	14:23.8	+14:38	1.7	12.1	Boo		X	
X	1/28/2017	5:07	NGC 5592	Galaxy	14:23.9	-28:41		12.9	Hya			
X	5/11/2010	3:59	NGC 5614	Galaxy	14:24.1	+34:52	1.6	11.7	Boo			
X	5/25/2006	0:00	NGC 5595	Galaxy	14:24.2	-16:43	2.4	12.0	Lib		X	
X	3/11/2019	2:46	NGC 5616	Galaxy	14:24.2	+36:26	1.5	13.8	Boo			
X	6/26/2016	23:40	NGC 5610	Galaxy	14:24.3	+24:36	1.6	13.2	Boo			
X	5/25/2006	0:00	NGC 5597	Galaxy	14:24.5	-16:46	1.3	12.0	Lib		X	
X	3/11/2019	5:12	NGC 5604	Galaxy	14:24.7	-3:13	2.0	12.8	Vir			
X	5/25/2006	0:07	NGC 5605	Galaxy	14:25.1	-13:10	2.2	12.3	Lib		X	
X	3/11/2019	1:30	NGC 5622	Galaxy	14:26.2	+48:33	1.0	13.2	Boo			
X	3/20/2004	21:28	NGC 5631	Galaxy	14:26.6	+56:35	3.2	11.5	UMa	X		
X	5/28/2014	0:15	NGC 5623	Galaxy	14:27.2	+33:14	1.6	12.5	Boo			
X	3/11/2019	5:08	NGC 5618	Galaxy	14:27.2	-2:16	1.6	13.4	Vir			
X	3/28/2014	1:49	NGC 5633	Galaxy	14:27.5	+46:09	2.3	12.4	Boo			
X	3/11/2019	2:03	NGC 5630	Galaxy	14:27.6	+41:16	1.0	13.1	Boo			
X	8/4/2015	22:23	NGC 5671	Galaxy	14:27.7	+69:38		13.3	UMi			
X	6/26/2016	23:44	NGC 5635	Galaxy	14:28.5	+27:25	2.6	12.5	Boo			
X	6/26/2016	23:38	NGC 5637	Galaxy	14:28.9	+23:11	1.9	13.8	Boo			
X	4/1/2019	1:57	NGC 5642	Galaxy	14:29.2	+30:01		12.6	Boo			
X	6/12/1988	1:03	NGC 5634	Globular Cluster	14:29.6	-5:59	4.9	9.4	Vir	X		
X	5/25/2006	1:56	NGC 5638	Galaxy	14:29.7	+3:14	2.3	11.2	Vir		X	
X	1/27/2017	19:57	NGC 5712	Galaxy	14:29.7	+78:51		14.3	UMi			
X	3/11/2019	4:58	NGC 5636	Galaxy	14:29.7	+3:16	1.4	12.7	Vir			
X	6/24/2006	0:07	NGC 5660	Galaxy	14:29.8	+49:37	2.4	11.9	Boo		X	
X	3/11/2019	2:42	NGC 5654	Galaxy	14:29.9	+36:21	1.9	12.9	Boo			
X	5/29/2014	0:12	NGC 5653	Galaxy	14:30.2	+31:13	0.8	12.2	Boo			
X	5/28/2014	0:18	NGC 5656	Galaxy	14:30.4	+35:19	2.4	11.8	Boo			
X	6/30/2014	0:55	NGC 5667	Galaxy	14:30.4	+59:29	2.6	12.5	Dra			
X	3/11/2019	3:46	NGC 5649	Galaxy	14:30.6	+14:00	1.4	13.2	Boo			
X	7/20/2012	22:16	NGC 5645	Galaxy	14:30.7	+7:17	2.9	12.5	Vir			
X	4/1/2019	1:58	NGC 5652	Galaxy	14:30.9	+5:58	1.9	12.5	Vir			
X	4/1/2019	2:00	NGC 5673	Galaxy	14:31.5	+49:58	2.7	12.1	Boo			
X	4/1/2019	2:01	NGC 5661	Galaxy	14:31.9	+6:14	1.5	13.3	Vir			
X	4/21/2009	23:47	NGC 5678	Galaxy	14:32.1	+57:55	1.6	11.3	Dra			
X	8/9/2010	21:21	NGC 5665	Galaxy	14:32.4	+8:05	2.1	12.0	Boo			
X	5/29/2014	0:15	NGC 5672	Galaxy	14:32.6	+31:40	0.9	13.5	Boo			
X	3/11/2019	2:36	NGC 5675	Galaxy	14:32.6	+36:17	1.5	12.7	Boo			
X	7/20/2012	22:19	NGC 5669	Galaxy	14:32.7	+9:53	4.1	11.3	Boo			
X	4/21/2009	23:52	NGC 5676	Galaxy	14:32.8	+49:28	3.7	11.2	Boo	X		
X	5/25/2006	1:54	NGC 5668	Galaxy	14:33.4	+4:27	3.2	11.5	Vir		X	
X	5/28/2014	0:12	NGC 5674	Galaxy	14:33.8	+5:26	1.1	13.0	Vir			
X	3/11/2019	3:05	NGC 5677	Galaxy	14:34.2	+25:27		13.7	Boo			
X	6/23/2006	23:31	NGC 5687	Galaxy	14:34.9	+54:29	1.4	11.8	Boo		X	
X	4/1/2019	2:02	NGC 5679	Galaxy	14:35.0	+5:20	1.0	13.0	Vir			
X	8/8/2002	22:00	NGC 5689	Galaxy	14:35.5	+48:45	3.7	11.9	Boo	X		
X	3/11/2019	2:27	NGC 5684	Galaxy	14:35.8	+36:32	0.8	12.7	Boo			
X	4/5/2016	23:31	NGC 5697	Galaxy	14:36.6	+41:41	1.9	13.7	Boo			
X	3/11/2019	1:56	NGC 5696	Galaxy	14:37.0	+41:49		13.0	Boo			
X	3/11/2019	2:16	NGC 5698	Galaxy	14:37.2	+38:28	3.0	13.0	Boo			
X	3/11/2019	2:21	NGC 5695	Galaxy	14:37.3	+36:34	1.6	12.8	Boo			
X	7/20/2012	22:08	NGC 5690	Galaxy	14:37.7	+2:17	3.3	11.8	Vir			
X	3/11/2019	5:03	NGC 5691	Galaxy	14:37.9	-0:24	1.7	12.3	Vir			
X	5/11/2010	4:19	NGC 5714	Galaxy	14:38.2	+46:38	1.6	13.4	Boo			
X	3/11/2019	4:08	NGC 5702	Galaxy	14:38.8	+20:31		13.3	Boo			
X	7/20/2015	22:11	NGC 5701	Galaxy	14:39.2	+5:22	4.1	10.9	Vir			

X	3/11/2019	4:06	NGC 5710	Galaxy	14:39.3	+20:03		13.0	Boo			
X	6/12/1988	1:21	NGC 5694	Globular Cluster	14:39.6	-26:32	3.6	10.2	Hya	X		
X	3/11/2019	1:52	NGC 5731	Galaxy	14:40.0	+42:46	1.4	13.1	Boo			
X	5/15/2012	0:50	NGC 5713	Galaxy	14:40.2	-0:17	3.0	11.2	Vir			
X	3/11/2019	1:52	NGC 5730	Galaxy	14:40.3	+42:45	1.7	14.1	Boo			
X	3/11/2019	2:11	NGC 5732	Galaxy	14:40.6	+38:39	1.8	13.5	Boo			
X	3/11/2019	4:56	NGC 5718	Galaxy	14:40.8	+3:28	1.4	12.9	Vir			
X	5/15/2012	0:50	NGC 5719	Galaxy	14:40.9	-0:19	2.9	12.2	Vir			
X	3/11/2019	5:17	NGC 5716	Galaxy	14:41.1	-17:29	1.0	12.9	Lib			
X	4/7/2013	21:50	NGC 5729	Galaxy	14:42.0	-9:03	2.7	12.6	Lib			
X	5/25/2006	0:12	NGC 5728	Galaxy	14:42.4	-17:15	3.7	11.5	Lib		X	
X	3/11/2019	2:58	NGC 5735	Galaxy	14:42.4	+28:44	4.3	12.3	Boo			
X	3/28/2014	1:41	NGC 5739	Galaxy	14:42.5	+41:50	1.8	12.1	Boo			
X	3/11/2019	4:03	NGC 5737	Galaxy	14:43.2	+18:53		13.5	Boo			
X	3/19/2015	1:09	NGC 5751	Galaxy	14:43.9	+53:25		13.2	Boo			
X	7/20/2012	22:05	NGC 5740	Galaxy	14:44.4	+1:41	3.1	11.9	Vir			
X	3/11/2019	3:42	NGC 5747	Galaxy	14:44.4	+12:09	3.3	13.6	Boo			
X	3/21/2004	1:35	NGC 5746	Galaxy	14:44.9	+1:57	7.9	10.6	Vir	X		
X	5/11/2012	4:04	NGC 5754	Galaxy	14:45.4	+38:47	0.8	13.1	Boo			
X	5/25/2006	1:16	NGC 5750	Galaxy	14:46.2	-0:13	2.9	11.6	Vir		X	
X	3/11/2019	3:55	NGC 5760	Galaxy	14:47.7	+18:31		13.3	Boo			
X	4/7/2013	2:43	NGC 5757	Galaxy	14:47.8	-19:05	2.4	12.0	Lib			
X	9/27/2011	23:41	NGC 5777	Galaxy	14:51.3	+58:58		13.3	Dra			
X	3/11/2019	5:05	NGC 5768	Galaxy	14:52.1	-2:32	1.8	12.5	Lib			
X	3/11/2019	3:03	NGC 5771	Galaxy	14:52.2	+29:51	1.0	13.6	Boo			
X	3/11/2019	3:03	NGC 5773	Galaxy	14:52.5	+29:48	1.3	13.5	Boo			
X	3/11/2019	4:52	NGC 5770	Galaxy	14:53.4	+3:57			Vir			
X	5/25/2006	1:48	NGC 5775	Galaxy	14:54.0	+3:33	4.3	11.4	Vir		X	
X	3/19/2015	1:22	NGC 5819	Galaxy	14:54.0	+73:08	1.2	13.5	UMi			
X	3/28/2014	1:43	NGC 5784	Galaxy	14:54.2	+42:33	1.0	12.4	Boo			
X	3/11/2019	1:49	NGC 5787	Galaxy	14:55.3	+42:30	1.3	13.1	Boo			
X	6/30/2014	0:37	NGC 5804	Galaxy	14:55.7	+49:39	2.0	13.1	Boo			
X	6/30/2014	0:37	NGC 5797	Galaxy	14:56.3	+49:42	1.2	12.8	Boo			
X	3/11/2019	3:01	NGC 5789	Galaxy	14:56.6	+30:13		13.7	Boo			
X	5/29/2014	0:17	NGC 5798	Galaxy	14:57.7	+29:58	2.2	13.1	Boo			
X	6/30/2014	0:21	NGC 5832	Galaxy	14:57.8	+71:41	1.8	12.1	UMi			
X	5/15/2012	0:42	NGC 5792	Galaxy	14:58.4	-1:05	7.3	11.2	Lib			
X	6/23/2009	1:23	NGC 5820	Galaxy	14:58.7	+53:53	4.4	12.4	Boo			
X	4/21/2006	2:45	NGC 5791	Galaxy	14:58.8	-19:16	2.1	11.9	Lib		X	
X	3/11/2019	1:21	NGC 5821	Galaxy	14:58.9	+53:55		13.5	Boo			
X	1/26/2017	0:35	NGC 5836	Galaxy	14:59.5	+73:53	1.6	13.9	UMi			
X	5/25/2006	1:21	NGC 5806	Galaxy	15:00.0	+1:54	2.7	11.7	Vir		X	
X	5/25/2016	0:40	NGC 5812	Galaxy	15:01.0	-7:27	2.4	11.2	Lib		X	
X	5/25/2006	1:21	NGC 5813	Galaxy	15:01.2	+1:42	3.4	10.5	Vir		X	
X	5/25/2006	1:25	NGC 5831	Galaxy	15:04.1	+1:13	2.0	11.5	Vir		X	
X	5/25/2006	1:30	NGC 5838	Galaxy	15:05.4	+2:06	3.8	10.9	Vir		X	
X	3/11/2019	4:49	NGC 5839	Galaxy	15:05.5	+1:38	1.2	12.7	Vir			
X	6/29/2014	23:42	NGC 5845	Galaxy	15:06.0	+1:38	0.6	12.5	Vir			
X	5/25/2006	1:36	NGC 5846	Galaxy	15:06.4	+1:36	3.0	10.0	Vir	X		
X	8/1/2008	0:28	NGC 5866	Galaxy	15:06.5	+55:46	6.6	9.9	Dra	X		
X	3/11/2019	3:30	NGC 5851	Galaxy	15:06.9	+12:52		14.0	Boo			
X	3/11/2019	3:30	NGC 5852	Galaxy	15:07.0	+12:51		13.5	Boo			
X	5/25/2006	1:36	NGC 5850	Galaxy	15:07.1	+1:33	4.6	10.8	Vir		X	
X	6/30/2014	0:02	NGC 5857	Galaxy	15:07.5	+19:36	2.7	13.1	Boo			
X	6/30/2014	0:02	NGC 5859	Galaxy	15:07.6	+19:35	2.6	12.4	Boo			

X	5/25/2006	1:32	NGC 5854	Galaxy	15:07.8	+2:34	2.2	11.9	Vir		X	
X	3/11/2019	1:17	NGC 5881	Galaxy	15:09.1	+62:57	3.4	13.3	Dra			
X	6/30/2014	0:41	NGC 5875	Galaxy	15:09.2	+52:32	2.2	12.4	Boo			
X	6/30/2014	0:02	NGC 5861	Galaxy	15:09.3	-11:19	1.9	11.6	Lib		X	
X	5/25/2006	1:42	NGC 5864	Galaxy	15:09.6	+3:03	2.4	11.8	Vir		X	
X	6/23/2006	23:39	NGC 5879	Galaxy	15:09.8	+57:00	4.3	11.6	Dra		X	
X	3/11/2019	4:42	NGC 5865	Galaxy	15:09.9	+0:31			Vir			
X	8/4/2015	22:27	NGC 5909	Galaxy	15:11.5	+75:22		13.7	UMi			
X	6/30/2014	0:52	NGC 5894	Galaxy	15:11.7	+59:49	3.0	12.9	Dra			
X	11/8/2015	18:51	NGC 5912	Galaxy	15:11.7	+75:22		13.7	UMi			
X	3/11/2019	1:47	NGC 5888	Galaxy	15:13.1	+41:16	1.4	13.4	Boo			
X	3/11/2019	1:43	NGC 5893	Galaxy	15:13.6	+41:58	1.3	13.2	Boo			
X	5/25/2006	2:52	NGC 5878	Galaxy	15:13.8	-14:16	1.1	11.5	Lib		X	
X	3/11/2019	1:33	NGC 5902	Galaxy	15:14.4	+50:21	0.9	13.0	Boo			
X	6/24/2006	0:37	NGC 5899	Galaxy	15:15.0	+42:03	1.8	11.7	Boo		X	
X	4/7/2013	2:49	NGC 5885	Galaxy	15:15.1	-10:05	1.4	11.8	Lib			
X	3/11/2019	1:43	NGC 5900	Galaxy	15:15.1	+42:13	0.5	14.0	Boo			
X	6/30/2014	0:46	NGC 5905	Galaxy	15:15.4	+55:31	11.5	11.7	Dra			
X	8/9/2010	22:44	NGC 5907	Galaxy	15:15.9	+56:19	2.7	10.3	Dra	X		
X	6/30/2014	0:44	NGC 5908	Galaxy	15:16.7	+55:25	3.7	11.8	Dra			
X	6/12/1988	1:32	NGC 5897	Globular Cluster	15:17.4	-21:01	12.6	8.6	Lib	X		
X	4/7/2013	2:26	NGC 5898	Galaxy	15:18.2	-24:06	2.0	11.5	Lib			
X	4/7/2013	2:26	NGC 5903	Galaxy	15:18.6	-24:04		11.5	Lib			
X	3/11/2019	3:19	NGC 5910	Galaxy	15:19.3	+20:55		13.6	Ser			
X	3/11/2019	5:15	NGC 5913	Galaxy	15:20.9	-2:35	1.8	13.2	Ser			
X	3/11/2019	1:38	NGC 5922	Galaxy	15:21.2	+41:40			Boo			
X	7/31/2008	21:52	NGC 5921	Galaxy	15:21.9	+5:04	4.9	10.8	Ser			
X	3/11/2019	3:23	NGC 5928	Galaxy	15:25.9	+18:05	2.4	12.2	Ser			
X	6/23/2009	1:28	NGC 5930	Galaxy	15:26.1	+41:41	1.8	12.2	Boo			
X	6/30/2014	1:03	NGC 5949	Galaxy	15:28.0	+64:46	1.2	12.0	Dra			
X	6/29/2014	23:53	NGC 5936	Galaxy	15:30.0	+12:59		12.4	Ser			
X	6/29/2014	23:46	NGC 5937	Galaxy	15:30.8	-2:49	2.0	12.3	Ser			
X	9/27/2011	21:46	NGC 5963	Galaxy	15:33.5	+56:35	5.5	12.5	Dra			
X	6/29/2014	23:54	NGC 5951	Galaxy	15:33.7	+15:00	1.7	12.7	Ser			
X	9/27/2011	21:46	NGC 5965	Galaxy	15:34.0	+56:42	3.0	11.7	Dra			
X	6/23/2009	1:54	NGC 5953	Galaxy	15:34.5	+15:12	1.0	12.1	Ser			
X	6/23/2009	1:54	NGC 5954	Galaxy	15:34.6	+15:12		12.1	Ser			
X	6/26/2016	23:19	NGC 5958	Galaxy	15:34.7	+28:40	0.9	12.6	CrB			X
X	6/26/2016	23:26	NGC 5966	Galaxy	15:35.8	+39:47	0.9	12.2	Boo			
X	6/29/2014	23:59	NGC 5962	Galaxy	15:36.5	+16:37	1.8	11.3	Ser			
X	5/25/2006	2:01	NGC 5970	Galaxy	15:38.5	+12:11	4.8	11.5	Ser		X	
X	7/23/2009	0:24	NGC 5982	Galaxy	15:38.7	+59:21	4.7	11.1	Dra	X		
X	7/23/2009	0:24	NGC 5985	Galaxy	15:39.6	+59:20	3.0	11.1	Dra		X	
X	6/30/2014	0:48	NGC 5987	Galaxy	15:39.9	+58:05	5.3	11.7	Dra			
X	6/29/2014	23:57	NGC 5980	Galaxy	15:41.4	+15:47	2.7	12.6	Ser			
X	6/30/2014	0:50	NGC 5989	Galaxy	15:41.5	+59:45	6.4	13.1	Dra			
X	6/30/2014	1:13	NGC 5984	Galaxy	15:42.9	+14:14	1.9	12.5	Ser			
X	6/26/2016	23:23	NGC 5992	Galaxy	15:44.4	+41:05	1.1	13.7	Boo			
X	6/26/2016	23:23	NGC 5993	Galaxy	15:44.5	+41:07		13.1	Boo			
X	6/29/2014	23:48	NGC 5990	Galaxy	15:46.4	+2:24	1.5	12.4	Ser			
X	8/4/2015	20:30	NGC 6011	Galaxy	15:46.6	+72:09	1.8	13.5	UMi			
X	6/29/2009	1:50	NGC 5996	Galaxy	15:46.9	+17:52	3.7	12.8	Ser			
X	3/11/2019	3:11	NGC 6001	Galaxy	15:47.7	+28:38	2.8	13.6	CrB			X
X	3/12/2007	2:01	NGC 6015	Galaxy	15:51.4	+62:19	7.3	11.1	Dra		X	
X	3/11/2019	3:39	NGC 6012	Galaxy	15:54.2	+14:35	1.5	12.0	Ser			

X	6/29/2014	23:50	NGC 6010	Galaxy	15:54.4	+0:32	1.9	12.6	Ser			
X	6/30/2014	0:27	NGC 6068	Galaxy	15:55.4	+79:00		12.8	UMi			
X	3/11/2019	3:37	NGC 6018	Galaxy	15:57.5	+15:51	1.0	13.4	Ser			
X	3/11/2019	3:37	NGC 6021	Galaxy	15:57.5	+15:56	1.1	13.1	Ser			
X	3/19/2015	0:05	NGC 6048	Galaxy	15:57.6	+70:42	2.2	12.3	UMi			
X	11/8/2015	18:55	NGC 6071	Galaxy	16:01.1	+70:37		14.0	UMi			
X	6/27/2016	23:48	NGC 6038	Galaxy	16:02.6	+37:21	0.5	13.5	CrB			
X	9/2/2005	20:37	NGC 6058	Planetary Nebula	16:04.4	+40:41	0.4	12.9	Her		X	
X	3/19/2015	0:08	NGC 6079	Galaxy	16:04.5	+69:38		12.7	Dra			
X	8/4/2015	22:32	NGC 6094	Galaxy	16:06.6	+72:30	1.1	13.2	UMi			
X	5/25/2006	2:10	NGC 6070	Galaxy	16:10.0	+0:43	3.6	11.8	Ser		X	
X	3/11/2019	3:35	NGC 6073	Galaxy	16:10.1	+16:42		13.5	Her			
X	8/4/2015	22:45	NGC 6088	Galaxy	16:10.7	+57:28		15.6	Dra			
X	3/11/2019	3:14	NGC 6089	Galaxy	16:12.7	+33:02		14.0	CrB			
X	3/11/2019	3:17	NGC 6103	Galaxy	16:15.7	+31:57		13.8	CrB			
X	10/11/2015	20:11	NGC 6104	Galaxy	16:16.5	+35:42	3.2	13.2	CrB			
X	5/25/2006	2:32	NGC 6106	Galaxy	16:18.8	+7:25	2.3	12.2	Her		X	
X	7/22/2009	23:12	NGC 6120	Galaxy	16:19.8	+37:47	1.9	13.8	CrB			
X	6/30/2014	1:05	NGC 6140	Galaxy	16:20.9	+65:23	2.2	11.3	Dra			
X	8/4/2015	22:50	NGC 6143	Galaxy	16:21.7	+55:05	1.5	13.2	Dra			
X	8/9/2002	22:42	NGC 6118	Galaxy	16:21.8	-2:17	4.6	11.7	Ser	X		
X	10/11/2015	20:15	NGC 6129	Galaxy	16:21.8	+37:59		13.7	CrB			
X	8/20/2009	21:55	NGC 6137	Galaxy	16:23.1	+37:55	1.1	12.4	CrB			
X	3/11/2019	5:23	NGC 6142	Galaxy	16:23.4	+37:16		13.8	CrB			
X	8/20/2009	21:45	NGC 6146	Galaxy	16:25.2	+40:53		12.5	Her			
X	11/8/2015	18:45	NGC 6154	Galaxy	16:25.6	+49:50	0.9	12.7	Her			
X	11/8/2015	18:36	NGC 6150	Galaxy	16:25.8	+40:30	1.9	14.0	Her			
X	9/30/2005	20:51	NGC 6155	Galaxy	16:26.1	+48:22	3.9	12.2	Her		X	
X	5/4/2000	0:52	NGC 6144	Globular Cluster	16:27.3	-26:02	9.3	9.1	Sco	X		
X	1/18/2015	4:48	NGC 6158	Galaxy	16:27.7	+39:23	1.8	13.7	Her			
X	11/8/2015	18:42	NGC 6160	Galaxy	16:27.7	+40:55	1.7	13.2	Her			
X	9/30/2005	21:04	NGC 6166	Galaxy	16:28.6	+39:33	1.6	12.0	Her		X	
X	8/4/2015	22:47	NGC 6182	Galaxy	16:29.5	+55:31		13.5	Dra			
X	8/20/2009	21:45	NGC 6173	Galaxy	16:29.8	+40:49	1.4	12.1	Her			
X	11/8/2015	18:40	NGC 6175	Galaxy	16:29.9	+40:39	1.7	13.7	Her			
X	11/8/2015	18:33	NGC 6177	Galaxy	16:30.6	+35:04		13.6	Her			
X	9/30/2005	21:16	NGC 6181	Galaxy	16:32.3	+19:50	2.8	11.9	Her		X	
X	5/11/2010	3:21	NGC 6171	Globular Cluster	16:32.5	-13:03	10.0	8.1	Oph	X		
X	11/8/2015	19:02	NGC 6252	Galaxy	16:32.5	+82:36		14.2	UMi			
X	8/10/2002	23:50	NGC 6217	Galaxy	16:32.6	+78:12	5.8	11.2	UMi	X		
X	8/4/2015	22:39	NGC 6251	Galaxy	16:32.6	+82:33		12.6	UMi			
X	11/8/2015	18:09	NGC 6186	Galaxy	16:34.4	+21:33	0.9	12.9	Her			
X	11/8/2015	18:38	NGC 6195	Galaxy	16:36.5	+39:02		13.0	Her			
X	7/30/2008	22:21	NGC 6207	Galaxy	16:43.1	+36:50	2.0	11.6	Her	X		
X	8/18/2001	23:39	NGC 6229	Globular Cluster	16:47.0	+47:32	4.5	9.4	Her	X		
X	9/30/2005	20:39	NGC 6239	Galaxy	16:50.1	+42:44	1.1	12.4	Her		X	
X	11/8/2015	18:31	NGC 6241	Galaxy	16:50.1	+45:24	3.0	13.8	Her			
X	5/4/2000	5:14	NGC 6235	Globular Cluster	16:52.4	-22:11	5.0	10.2	Oph	X		
X	11/8/2015	18:24	NGC 6255	Galaxy	16:54.8	+36:30	2.3	12.7	Her			
X	11/8/2015	18:11	NGC 6267	Galaxy	16:58.2	+22:59	2.1	13.1	Her			
X	6/30/2014	1:13	NGC 6283	Galaxy	16:59.4	+49:56	0.7	12.9	Her			
X	11/8/2015	18:06	NGC 6278	Galaxy	17:00.9	+23:01		12.4	Her			
X	11/8/2015	18:58	NGC 6331	Galaxy	17:03.5	+78:38		14.4	UMi			
X	8/17/1990	22:37	NGC 6284	Globular Cluster	17:04.5	-24:46	5.6	9.0	Oph	X		
X	8/1/2008	23:33	NGC 6287	Globular Cluster	17:05.2	-22:42	5.1	9.2	Oph	X		

X	6/30/2014	0:30	NGC 6324	Galaxy	17:05.4	+75:25		12.8	UMi			
X	11/8/2015	18:28	NGC 6301	Galaxy	17:08.6	+42:20		13.4	Her			
X	8/17/1990	22:08	NGC 6293	Globular Cluster	17:10.2	-26:35	7.9	8.2	Oph	X		
X	3/18/2007	0:07	NGC 6340	Galaxy	17:10.4	+72:18	2.9	11.0	Dra		X	
X	8/9/2002	21:37	NGC 6304	Globular Cluster	17:14.5	-29:28	6.8	8.4	Oph	X		
X	8/4/2015	22:53	NGC 6338	Galaxy	17:15.3	+57:25	1.2	12.3	Dra			
X	8/9/2002	21:31	NGC 6316	Globular Cluster	17:16.6	-28:08	4.9	8.8	Oph	X		
X	8/9/2002	22:07	NGC 6342	Globular Cluster	17:21.2	-19:35	3.0	9.8	Oph	X		
X	8/9/2002	21:46	NGC 6356	Globular Cluster	17:23.6	-17:49	7.2	8.2	Oph	X		
X	8/9/2002	22:26	NGC 6355	Globular Cluster	17:24.0	-26:21	5.0	9.7	Oph	X		
X	11/8/2015	18:16	NGC 6372	Galaxy	17:27.5	+26:28	1.7	12.9	Her			
X	6/12/1988	2:38	NGC 6369	Planetary Nebula	17:29.3	-23:46		11.4	Oph	X		
X	8/2/2008	0:23	NGC 6412	Galaxy	17:29.6	+75:42		11.8	Dra			
X	11/8/2015	18:13	NGC 6389	Galaxy	17:32.7	+16:24	1.9	12.1	Her			
X	8/4/2015	22:30	NGC 6434	Galaxy	17:36.8	+72:05		12.4	Dra			
X	5/4/2000	5:58	NGC 6401	Globular Cluster	17:38.6	-23:55	5.6	9.5	Oph	X		
X	8/9/2002	22:30	NGC 6426	Globular Cluster	17:44.9	+3:00	3.2	11.2	Oph	X		
X	8/16/2001	22:28	NGC 6440	Globular Cluster	17:48.9	-20:22	5.4	9.1	Sgr	X		
X	8/16/2001	22:28	NGC 6445	Planetary Nebula	17:49.2	-20:01	0.6	11.2	Sgr	X		
X	6/24/2001	0:15	NGC 6451	Open Cluster	17:50.7	-30:13	7.0	8.2	Sco	X		
X	6/30/2014	0:07	NGC 6500	Galaxy	17:56.0	+18:20		12.2	Her			
X	6/30/2014	0:07	NGC 6501	Galaxy	17:56.1	+18:22		12.0	Her			
X	6/24/2013	23:07	NGC 6543	Planetary Nebula	17:58.6	+66:38	5.8	8.8	Dra	X		
X	9/2/2005	22:03	NGC 6507	Open Cluster	17:59.6	-17:24	6.0	9.6	Sgr		X	
X	8/9/2002	22:33	NGC 6517	Globular Cluster	18:01.8	-8:58	4.3	10.3	Oph	X		
X	9/19/1987	22:37	NGC 6514	Cluster with Nebula	18:02.3	-23:02	29.0	6.3	Sgr	X		
X	9/6/2013	21:45	NGC 6526	Nebula	18:02.6	-23:35		5.0	Sgr		X	
X	7/3/2013	23:26	NGC 6520	Open Cluster	18:03.4	-27:54	6.0	7.6	Sgr	X		
X	8/16/2001	22:45	NGC 6522	Globular Cluster	18:03.6	-30:02	5.6	8.6	Sgr	X		
X	8/16/2001	22:50	NGC 6528	Globular Cluster	18:04.8	-30:03	3.7	9.5	Sgr	X		
X	8/17/2014	21:38	NGC 6533	Nebula	18:05.1	-24:53			Sgr			
X	9/30/2005	21:32	NGC 6548	Galaxy	18:06.0	+18:35		11.7	Her		X	
X	8/16/2001	23:07	NGC 6540	Open Cluster	18:06.3	-27:49	0.8	14.6	Sgr	X		
X	8/16/2001	23:09	NGC 6544	Globular Cluster	18:07.3	-25:00	8.9	8.3	Sgr	X		
X	6/30/2014	1:10	NGC 6555	Galaxy	18:07.8	+17:36	1.8	12.4	Her			
X	8/16/2001	23:20	NGC 6553	Globular Cluster	18:09.3	-25:54		8.3	Sgr	X		
X	8/16/2001	23:23	NGC 6568	Open Cluster	18:12.8	-21:36			Sgr	X		
X	8/16/2001	23:26	NGC 6569	Globular Cluster	18:13.6	-31:50			Vul	X		
X	8/16/2001	23:29	NGC 6583	Open Cluster	18:15.8	-22:08			Sgr	X		
X	9/2/2005	21:39	NGC 6596	Open Cluster	18:17.5	-16:40	10.0		Sgr		X	
X	9/2/2005	22:17	NGC 6604	Cluster with Nebula	18:18.1	-12:14	4.0	6.5	Ser		X	
X	8/16/2001	23:35	NGC 6624	Globular Cluster	18:23.7	-30:22	5.9	8.3	Sgr	X		
X	6/30/2008	23:00	NGC 6629	Planetary Nebula	18:25.7	-23:12	0.3	11.6	Sgr	X		
X	6/24/2001	0:22	NGC 6633	Open Cluster	18:27.7	+6:34	27.0	4.6	Oph	X		
X	11/7/2012	18:23	NGC 6646	Galaxy	18:29.6	+39:52	1.6	12.6	Lyr			
X	8/9/2002	23:11	NGC 6638	Globular Cluster	18:30.9	-25:30	5.0	9.2	Sgr	X		
X	8/18/2012	21:06	NGC 6647	Open Cluster	18:31.5	-17:21	8		Sgr			
X	8/8/2002	22:40	NGC 6642	Globular Cluster	18:31.9	-23:29	4.5	8.8	Sgr	X		
X	6/24/2001	0:08	NGC 6645	Open Cluster	18:32.6	-16:54	10.0	8.5	Sgr	X		
X	8/17/2001	0:10	NGC 6664	Open Cluster	18:36.7	-8:13	16.0	7.8	Sct	X		
X	8/17/2001	0:15	NGC 6712	Globular Cluster	18:53.1	-8:42	7.2	8.2	Sct	X		
X	8/12/2004	23:25	NGC 6717	Globular Cluster	18:55.1	-22:42	3.9	9.2	Sgr		X	
X	9/30/2005	21:34	NGC 6742	Planetary Nebula	18:59.3	+48:28	0.5	13.4	Dra			
X	7/22/2001	1:08	NGC 6755	Open Cluster	19:07.8	+4:14	15.0	7.5	Aql	X		
X	8/14/1988	0:17	NGC 6756	Open Cluster	19:08.7	+4:41		4.0	Aql	X		

X	9/2/2005	23:34	NGC 6772	Planetary Nebula	19:14.6	-2:42	1.0	14.2	Aql		X	
X	8/14/1988	0:02	NGC 6781	Planetary Nebula	19:18.4	+6:33	1.8	11.4	Aql	X		
X	10/10/2007	20:27	NGC 6793	Open Cluster	19:23.2	+22:11	6.0		Vul		X	
X	10/10/2007	20:19	NGC 6800	Open Cluster	19:27.2	+25:08	5.0		Vul		X	
X	7/22/2001	1:53	NGC 6802	Open Cluster	19:30.6	+20:16	3.0	8.8	Vul	X		
X	7/31/2008	1:00	NGC 6804	Planetary Nebula	19:31.6	+9:13	1.1	12.0	Aql		X	
X	10/11/2007	3:04	NGC 7423	Open Cluster	19:42.7	+57:08			Cep			
X	5/6/2005	4:47	NGC 6823	Open Cluster	19:43.1	+23:18	12.0	7.1	Vul	X		
X	9/20/2006	0:22	NGC 6824	Galaxy	19:43.7	+56:07	1.2	11.9	Cyg		X	
X	8/23/2006	22:38	NGC 6818	Planetary Nebula	19:44.0	-14:09	0.3	9.3	Sgr	X		
X	8/13/1988	23:00	NGC 6826	Planetary Nebula	19:44.8	+50:31	2.3	8.8	Cyg	X		
X	7/22/2001	2:50	NGC 6830	Open Cluster	19:51.0	+23:04	12.0	7.9	Vul	X		
X	7/22/2001	4:04	NGC 6834	Open Cluster	19:52.2	+29:25	5.0	7.8	Cyg	X		
X	8/18/2012	23:21	NGC 6837	Open Cluster	19:53.5	+11:41			Aql			
X	8/18/2012	23:27	NGC 6840	Open Cluster	19:55.3	+12:06			Aql			
X	1/18/2015	21:45	NGC 781	Galaxy	2:00.1	+12:38	1.6	13.0	Ari			
X	8/19/2012	2:07	NGC 777	Galaxy	2:00.2	+31:26	4.4	11.4	Tri			
X	1/18/2015	21:54	NGC 780	Galaxy	2:00.5	+28:13	2.3	13.4	Tri			
X	1/5/2013	19:30	NGC 788	Galaxy	2:01.1	-6:49	1.8	12.3	Cet			
X	1/5/2013	19:31	NGC 790	Galaxy	2:01.5	-5:23	1.3	12.7	Cet			
X	1/18/2015	21:25	NGC 794	Galaxy	2:02.5	+18:22	3.3	12.7	Ari			
X	8/19/2012	1:53	NGC 797	Galaxy	2:03.4	+38:07	1.1	12.2	And			
X	8/19/2012	2:25	NGC 803	Galaxy	2:03.8	+16:02	1.9	12.4	Ari			
X	1/18/2015	21:57	NGC 807	Galaxy	2:04.8	+28:59	2.7	12.5	Tri			
X	9/30/2006	1:34	NGC 821	Galaxy	2:08.4	+11:00	3.5	10.8	Ari		X	
X	8/19/2012	1:55	NGC 818	Galaxy	2:08.7	+38:47	3.2	12.5	And			
X	12/27/2013	19:24	NGC 827	Galaxy	2:08.8	+7:58	2.5	12.7	Cet			
X	9/26/2011	4:45	NGC 833	Galaxy	2:09.3	-10:08	1.4	12.7	Cet			
X	10/27/2008	21:22	NGC 835	Galaxy	2:09.4	-10:08	1.7	12.2	Cet			
X	9/26/2011	4:45	NGC 838	Galaxy	2:09.6	-10:09	1.8	12.8	Cet			
X	10/27/2008	21:22	NGC 839	Galaxy	2:09.7	-10:11		13.0	Cet			
X	8/19/2012	1:39	NGC 828	Galaxy	2:10.2	+39:12	1.9	12.2	And			
X	8/19/2012	1:57	NGC 834	Galaxy	2:11.0	+37:40		13.1	And			
X	1/5/2013	19:34	NGC 850	Galaxy	2:11.2	-1:30	1.4	12.9	Cet			
X	12/27/2013	19:17	NGC 853	Galaxy	2:11.8	-9:18	2.0	12.7	Cet			
X	10/11/2015	23:11	NGC 845	Galaxy	2:12.3	+37:29	1.3	13.5	And			
X	8/19/2012	2:16	NGC 855	Galaxy	2:14.0	+27:53	1.3	12.6	Tri			
X	9/25/2016	1:50	NGC 863	Galaxy	2:14.6	-0:46	1.2	12.9	Cet			
X	12/27/2013	19:23	NGC 864	Galaxy	2:15.5	+6:00	4.6	11.0	Cet			
X	1/5/2013	19:39	NGC 875	Galaxy	2:15.9	+1:03	1.4	12.9	Cet			
X	12/27/2013	19:12	NGC 873	Galaxy	2:16.6	-11:20	2.8	12.4	Cet			
X	8/19/2012	2:41	NGC 871	Galaxy	2:17.2	+14:33	0.8	13.5	Ari			
X	1/5/2013	19:39	NGC 877	Galaxy	2:18.0	+14:33	3.3	11.8	Ari			
X	1/5/2013	19:27	NGC 881	Galaxy	2:18.7	-6:35	2.9	12.4	Cet			
X	8/1/2008	1:29	NGC 869	Open Cluster	2:19.0	+57:09	30.0	5.3	Per	X		
X	1/5/2013	19:27	NGC 883	Galaxy	2:19.0	-6:45	1.6	12.4	Cet			
X	12/27/2013	19:07	NGC 887	Galaxy	2:19.6	-16:04	2.6	12.0	Cet			
X	8/19/2012	3:41	NGC 895	Galaxy	2:21.6	-5:31	3.6	11.8	Cet			
X	9/30/2006	2:44	NGC 890	Galaxy	2:22.0	+33:16	2.3	11.2	Tri		X	
X	8/1/2008	1:29	NGC 884	Open Cluster	2:22.4	+57:07	30.0	6.1	Per	X		
X	10/17/2009	22:09	NGC 891	Galaxy	2:22.6	+42:21	20.0	10.0	And	X		
X	1/16/2015	20:30	NGC 907	Galaxy	2:23.0	-20:43	2.7	12.6	Cet			
X	10/1/2002	0:06	NGC 908	Galaxy	2:23.1	-21:14	5.5	10.2	Cet	X		
X	10/18/2015	22:20	NGC 898	Galaxy	2:23.3	+41:57	2.2	12.9	And			
X	10/26/2013	19:15	NGC 896	Nebula	2:24.8	+61:54	21'		Cas		X	

X	9/30/2011	1:18	NGC 922	Galaxy	2:25.1	-24:47	2.0	12.2	For			
X	10/17/2009	22:09	NGC 910	Galaxy	2:25.4	+41:50	1.7	12.2	And			
X	1/18/2015	21:31	NGC 924	Galaxy	2:26.8	+20:30	1.5	12.4	Ari			
X	9/30/2006	2:29	NGC 925	Galaxy	2:27.3	+33:35	3.1	10.0	Tri		X	
X	10/1/2002	0:08	NGC 936	Galaxy	2:27.6	-1:09	5.2	10.1	Cet	X		
X	1/18/2015	21:32	NGC 932	Galaxy	2:27.9	+20:19	3.3		Ari			
X	8/19/2012	3:44	NGC 941	Galaxy	2:28.5	-1:09	2.8	12.4	Cet			
X	8/19/2012	3:53	NGC 945	Galaxy	2:28.6	-10:32	2.2	12.1	Cet			
X	1/5/2013	19:19	NGC 955	Galaxy	2:30.6	-1:07	3.0	12.0	Cet			
X	8/19/2012	3:34	NGC 958	Galaxy	2:30.7	-2:57	2.8	12.2	Cet			
X	8/19/2012	2:05	NGC 949	Galaxy	2:30.8	+37:08	2.8	11.9	Tri			
X	12/27/2013	19:15	NGC 977	Galaxy	2:33.0	-10:44	1.1	12.7	Cet			
X	8/2/2008	1:46	NGC 972	Galaxy	2:34.2	+29:19	4.1	11.3	Ari			
X	8/19/2012	2:00	NGC 982	Galaxy	2:35.4	+40:57	1.0	12.5	And			
X	9/30/2006	4:10	NGC 991	Galaxy	2:35.5	-7:09	2.9	11.7	Cet		X	
X	8/19/2012	2:00	NGC 980	Galaxy	2:35.5	+40:54	1.6	13.0	And			
X	1/18/2015	21:40	NGC 990	Galaxy	2:36.4	+11:39		12.4	Ari			
X	8/19/2012	2:18	NGC 987	Galaxy	2:36.8	+33:19	2.3	12.4	Tri			
X	10/1/2002	0:11	NGC 1022	Galaxy	2:38.5	-6:40	2.5	11.4	Cet	X		
X	1/18/2015	21:38	NGC 1024	Galaxy	2:39.2	+10:51	1.9	12.1	Ari			
X	10/23/2003	21:23	NGC 1003	Galaxy	2:39.3	+40:52	2.8	11.5	Per		X	
X	9/30/2006	2:02	NGC 1012	Galaxy	2:39.3	+30:09	3.2	12.0	Ari		X	
X	10/23/2006	21:37	NGC 1032	Galaxy	2:39.4	+1:06	3.5	11.6	Cet		X	
X	1/16/2015	20:34	NGC 1035	Galaxy	2:39.5	-8:08	2.2	12.2	Cet		X	
X	1/18/2015	21:36	NGC 1030	Galaxy	2:39.9	+18:01	1.1	13.2	Ari			
X	9/30/2006	4:00	NGC 1045	Galaxy	2:40.4	-11:18	1.9	12.1	Cet		X	
X	1/23/2012	20:45	NGC 1023	Galaxy	2:40.4	+39:04	8.7	9.5	Per	X		
X	8/19/2012	2:26	NGC 1036	Galaxy	2:40.5	+19:18	3.2	13.2	Ari			
X	1/16/2009	18:34	NGC 1052	Galaxy	2:41.1	-8:15	2.9	10.6	Cet	X		
X	1/5/2013	19:48	NGC 1044	Galaxy	2:41.1	+8:44	0.6	13.2	Cet			
X	1/5/2013	19:48	NGC 1046	Galaxy	2:41.2	+8:43		13.8	Cet			
X	12/28/2008	19:09	NGC 1055	Galaxy	2:41.8	+0:26	7.6	10.6	Cet	X		
X	10/11/2007	22:16	NGC 1027	Open Cluster	2:42.7	+61:33	20.0	6.7	Cas	X		
X	8/19/2012	2:28	NGC 1056	Galaxy	2:42.9	+28:33		12.4	Ari			
X	9/30/2006	2:13	NGC 1060	Galaxy	2:43.2	+32:24	1.7	11.8	Tri		X	
X	10/23/2006	21:31	NGC 1070	Galaxy	2:43.3	+4:58	2.6	11.9	Cet		X	
X	10/23/2006	21:16	NGC 1058	Galaxy	2:43.5	+37:21	2.3	11.5	Per		X	
X	10/23/2006	21:46	NGC 1073	Galaxy	2:43.7	+1:23	4.9	11.0	Cet		X	
X	9/25/2011	1:01	NGC 1066	Galaxy	2:43.8	+32:27		13.2	Tri			
X	1/16/2015	20:18	NGC 1084	Galaxy	2:46.0	-7:35	2.9	10.6	Eri	X		
X	1/16/2015	19:21	NGC 1097	Galaxy	2:46.3	-30:17		9.3	For			
X	12/28/2008	19:09	NGC 1087	Galaxy	2:46.4	-0:30	3.5	11.0	Cet		X	
X	10/23/2006	21:59	NGC 1090	Galaxy	2:46.6	-0:15	3.8	11.9	Cet		X	
X	10/11/2005	23:22	NGC 1088	Galaxy	2:47.0	+16:11	1.6	13.7	Ari			
X	1/5/2013	19:09	NGC 1094	Galaxy	2:47.5	-0:17	1.2	12.5	Cet			
X	9/30/2006	3:38	NGC 1114	Galaxy	2:49.2	-17:00	1.5	12.8	Eri		X	
X	12/27/2013	19:45	NGC 1125	Galaxy	2:51.8	-16:38	1.8	12.6	Eri			
X	10/30/2015	20:35	NGC 1122	Galaxy	2:52.8	+42:12	4.1	12.1	Per			
X	12/28/2008	19:22	NGC 1134	Galaxy	2:53.6	+13:00	2.0	12.1	Ari			
X	1/23/2012	19:11	NGC 1129	Galaxy	2:54.5	+41:35	2.6	12.5	Per			
X	1/5/2013	19:53	NGC 1140	Galaxy	2:54.6	-10:02	1.6	12.5	Eri			
X	1/17/2015	22:04	NGC 1138	Galaxy	2:56.5	+43:03	1.6	12.8	Per			
X	1/5/2013	19:13	NGC 1153	Galaxy	2:58.1	+3:22	1.3	12.3	Cet			
X	10/1/2005	3:19	NGC 1162	Galaxy	2:58.9	-12:24		12.5	Eri		X	
X	9/30/2006	1:55	NGC 1156	Galaxy	2:59.7	+25:14	4.4	11.7	Ari		X	

X	9/19/2006	23:57	NGC 6857	Planetary Nebula	20:01.9	+33:31			Cyg		X	
X	8/13/1988	22:08	NGC 6866	Open Cluster	20:03.7	+44:00	7.0	7.6	Cyg	X		
X	8/10/2002	23:45	NGC 6882	Open Cluster	20:11.7	+26:33	18.0	8.1	Vul	X		
X	10/10/2007	20:46	NGC 6885	Open Cluster	20:12.0	+26:29	7.0	8.1	Vul	X		
X	9/25/2014	20:35	NGC 6888	Nebula	20:12.0	+38:21		5.0	Cyg		X	
X	8/1/2008	3:15	NGC 6894	Planetary Nebula	20:16.4	+30:34	0.7	12.3	Cyg		X	
X	8/17/1990	23:59	NGC 6905	Planetary Nebula	20:22.4	+20:07	1.7	11.1	Del	X		
X	7/22/2001	4:00	NGC 6910	Open Cluster	20:23.1	+40:47	8.0	7.4	Cyg	X		
X	10/3/2002	20:59	NGC 6907	Galaxy	20:25.1	-24:49		11.3	Cap		X	
X	8/1/2008	0:56	NGC 6939	Open Cluster	20:31.4	+60:38	8.0	7.8	Cep	X		
X	8/18/2012	23:27	NGC 6926	Galaxy	20:33.1	-2:01	2.1	12.4	Aql			
X	10/5/1999	23:45	NGC 6934	Globular Cluster	20:34.2	+7:24	5.9	8.7	Del	X		
X	10/5/1999	21:47	NGC 6940	Open Cluster	20:34.6	+28:18	31.0	6.3	Vul	X		
X	8/14/1988	1:40	NGC 6946	Galaxy	20:34.8	+60:09	4.6	8.9	Cep	X		
X	11/7/2012	18:41	NGC 6956	Galaxy	20:44.0	+12:31	1.6	12.3	Del			
X	1/6/1999	20:04	NGC 6960	Nebula	20:45.7	+30:43	1.5	5.0	Cyg		X	
X	11/7/2012	19:46	NGC 6962	Galaxy	20:47.3	+0:19	3.0	12.0	Aqr			
X	8/19/2012	0:07	NGC 6964	Galaxy	20:47.4	+0:18	1.9	12.7	Aqr			
X	10/5/1999	21:04	NGC 6979	Nebula	20:51.0	+32:09	3.7		Cyg			
X	10/5/1999	21:04	NGC 6992	Nebula	20:56.4	+31:43	70.0	5.0	Cyg		X	
X	9/19/2006	20:19	NGC 6997	Open Cluster	20:56.5	+44:38	8'	10.0	Cyg		X	
X	9/24/2006	20:03	NGC 6991	Open Cluster	20:56.6	+47:25	21'		Cyg		X	
X	9/7/2013	1:03	NGC 7000	Nebula	20:58.8	+44:20		5.0	Cyg	X		
X	9/7/2013	1:26	NGC 7023	Cluster with Nebula	21:00.5	+68:10	10.0	7.1	Cep		X	
X	8/1/2008	4:03	NGC 7008	Planetary Nebula	21:00.6	+54:33	1.4	10.7	Cyg	X		
X	7/22/2001	3:53	NGC 7006	Globular Cluster	21:01.5	+16:11	2.8	10.6	Del	X		
X	8/23/2006	22:46	NGC 7009	Planetary Nebula	21:04.2	-11:22	1.7	8.3	Aqr	X		
X	9/24/2006	21:23	NGC 7031	Open Cluster	21:07.3	+50:50	5.0	9.1	Cyg		X	
X	8/10/2002	22:00	NGC 7044	Open Cluster	21:12.9	+42:29	3.5	12.0	Cyg	X		
X	9/19/2006	21:54	NGC 7042	Galaxy	21:13.8	+13:33	2.9	12.0	Peg		X	
X	8/18/2012	23:39	NGC 7046	Galaxy	21:14.9	+2:50	1.6	13.1	Equ			
X	11/30/2013	18:24	NGC 7052	Galaxy	21:18.6	+26:27	1.6	12.4	Vul			
X	8/10/2002	22:15	NGC 7062	Open Cluster	21:23.2	+46:23	7.0	8.3	Cyg	X		
X	9/24/2006	20:36	NGC 7067	Open Cluster	21:24.2	+48:01	3.0	9.7	Cyg		X	
X	11/30/2013	18:45	NGC 7076	Nebula	21:26.3	+62:53		13.2	Cep			
X	9/24/2006	21:10	NGC 7082	Open Cluster	21:29.4	+47:05	25.0	7.2	Cyg		X	
X	8/10/2002	22:35	NGC 7086	Open Cluster	21:30.5	+51:35	9.0	8.4	Cyg	X		
X	8/19/2012	0:27	NGC 7081	Galaxy	21:31.4	+2:30	1.0	12.7	Aqr			
X	9/3/2005	0:43	NGC 7129	Cluster with Nebula	21:41.3	+66:06	7.0	11.5	Cep		X	
X	8/10/2002	23:23	NGC 7128	Open Cluster	21:44.0	+53:43	3.0	9.7	Cyg	X		
X	9/29/2006	22:49	NGC 7139	Planetary Nebula	21:45.9	+63:39	1.3	13.3	Cep		X	
X	11/2/2007	20:13	NGC 7142	Open Cluster	21:45.9	+65:48	4.0	9.3	Cep	X		
X	8/18/2012	23:42	NGC 7137	Galaxy	21:48.2	+22:10	4.9	12.4	Peg			
X	10/8/1999	19:08	NGC 7160	Open Cluster	21:53.7	+62:36	7.0	6.1	Cep	X		
X	9/30/2006	0:35	NGC 7156	Galaxy	21:54.6	+2:57	1.7	13.0	Peg		X	
X	10/30/2015	19:08	NGC 7165	Galaxy	21:59.5	-16:31		13.5	Aqr			
X	9/19/2006	21:33	NGC 7177	Galaxy	22:00.7	+17:44	1.7	11.2	Peg		X	
X	8/23/2006	23:56	NGC 7171	Galaxy	22:01.0	-13:16	1.8	12.2	Aqr		X	
X	10/17/2009	21:30	NGC 7180	Galaxy	22:02.3	-20:33	2.8	12.5	Aqr			
X	10/30/2015	19:15	NGC 7183	Galaxy	22:02.4	-18:56		11.9	Aqr			
X	10/17/2009	21:30	NGC 7184	Galaxy	22:02.7	-20:49	2.6	11.2	Aqr		X	
X	9/25/2014	22:21	NGC 7197	Galaxy	22:02.9	+41:03	10.7	12.8	Lac			
X	10/10/2007	20:56	NGC 7209	Open Cluster	22:05.2	+46:30	25.0	6.7	Lac	X		
X	10/9/1999	23:25	NGC 7217	Galaxy	22:07.9	+31:22	4.0	10.2	Peg	X		
X	8/24/2006	0:01	NGC 7218	Galaxy	22:10.2	-16:40	0.7	12.0	Aqr		X	

X	6/30/2014	1:16	NGC 7223	Galaxy	22:10.2	+41:00		12.2	Lac			
X	9/25/2014	22:24	NGC 7231	Galaxy	22:12.4	+45:19	2.5	13.0	Lac			
X	10/30/2015	19:13	NGC 7230	Galaxy	22:14.3	-17:04		13.5	Aqr			
X	8/9/2002	23:46	NGC 7243	Open Cluster	22:15.3	+49:53	21.0	6.4	Lac	X		
X	9/3/2005	1:50	NGC 7245	Open Cluster	22:15.3	+56:44	5.0	9.2	Lac		X	
X	9/25/2014	22:18	NGC 7248	Galaxy	22:16.9	+40:30	1.2	12.4	Lac			
X	10/30/2015	19:20	NGC 7246	Galaxy	22:17.5	-15:32		14.6	Aqr			
X	9/25/2014	1:18	NGC 7250	Galaxy	22:18.3	+40:35		12.6	Lac			
X	8/19/2012	0:22	NGC 7251	Galaxy	22:20.4	-15:46		11.8	Aqr			
X	10/27/2008	20:44	NGC 7252	Galaxy	22:20.7	-24:41	1.5	12.1	Aqr			
X	11/7/2012	20:26	NGC 7280	Galaxy	22:26.5	+16:09	1.8	12.1	Peg			
X	8/9/2002	23:51	NGC 7296	Open Cluster	22:28.2	+52:17	4.0	9.7	Lac	X		
X	10/27/2008	20:37	NGC 7284	Galaxy	22:28.6	-24:51	1.4	11.9	Aqr			
X	8/19/2002	0:00	NGC 7302	Galaxy	22:32.4	-14:07		12.2	Aqr			
X	11/7/2012	20:41	NGC 7311	Galaxy	22:34.2	+5:35	1.6	12.5	Peg			
X	8/18/2012	23:54	NGC 7309	Galaxy	22:34.3	-10:21	2.1	12.5	Aqr			
X	10/11/2015	22:30	NGC 7316	Galaxy	22:35.9	+20:19	1.4	13.0	Peg			
X	1/18/2015	20:34	NGC 7321	Galaxy	22:36.4	+21:38	1.5	12.9	Peg			
X	9/26/2011	3:00	NGC 7331	Galaxy	22:37.1	+34:25	10.7	9.5	Peg	X		
X	9/26/2011	3:00	NGC 7335	Galaxy	22:37.3	+34:27	1.7	13.3	Peg			
X	9/30/2005	22:51	NGC 7332	Galaxy	22:37.4	+23:48	2.6	11.1	Peg		X	
X	9/30/2005	22:51	NGC 7339	Galaxy	22:37.8	+23:47		12.2	Peg			
X	9/3/2005	1:28	NGC 7354	Planetary Nebula	22:40.4	+61:17	0.2	12.2	Cep		X	
X	10/11/2015	21:01	NGC 7364	Galaxy	22:44.5	-0:07	1.6	12.6	Aqr			
X	8/18/2012	23:57	NGC 7371	Galaxy	22:46.1	-11:00		12.1	Aqr			
X	11/17/2014	20:19	NGC 7380	Cluster with Nebula	22:47.0	+58:06	25.0	7.2	Cep	X		
X	8/24/2006	0:31	NGC 7377	Galaxy	22:47.8	-22:19	1.9	11.6	Aqr		X	
X	10/18/2009	0:20	NGC 7385	Galaxy	22:49.9	+11:36	2.1	12.3	Peg			
X	10/18/2009	0:20	NGC 7386	Galaxy	22:50.0	+11:42		12.5	Peg			
X	8/19/2012	0:25	NGC 7391	Galaxy	22:50.7	-1:31	1.8	12.0	Aqr			
X	10/11/2015	21:03	NGC 7393	Galaxy	22:51.7	-5:33	2.0	12.6	Aqr			
X	8/24/2006	0:20	NGC 7392	Galaxy	22:51.8	-20:36	2.6	11.9	Aqr		X	
X	9/3/2005	1:38	NGC 7419	Open Cluster	22:54.3	+60:50	2.0	13.0	Cep		X	
X	9/30/2005	21:52	NGC 6814	Galaxy	22:55.3	-10:19		11.2	Aql		X	
X	6/30/2014	1:20	NGC 7426	Galaxy	22:56.1	+36:21	2.3	12.3	Lac			
X	1/18/2015	19:47	NGC 7432	Galaxy	22:58.0	+13:08	1.3	13.4	Peg			
X	1/18/2015	20:32	NGC 7436	Galaxy	22:58.0	+26:09	1.8		Peg			
X	1/22/2012	20:25	NGC 7448	Galaxy	23:00.1	+15:59	3.5	11.7	Peg	X		
X	9/25/2016	0:47	NGC 7443	Galaxy	23:00.1	-12:48	1.4	12.6	Aqr			
X	9/25/2016	0:47	NGC 7444	Galaxy	23:00.1	-12:50	5.4	12.8	Aqr			
X	1/19/2006	22:01	NGC 7457	Galaxy	23:01.0	+30:09	3.2	11.2	Peg		X	
X	1/18/2015	20:41	NGC 7454	Galaxy	23:01.1	+16:23		11.8	Peg			
X	10/11/2015	21:54	NGC 7458	Galaxy	23:01.5	+1:45	1.1	12.5	Psc			
X	9/30/2005	22:24	NGC 7463	Galaxy	23:01.9	+15:59	1.2	13.2	Peg		X	
X	9/30/2005	22:24	NGC 7465	Galaxy	23:02.0	+15:58	0.9	12.6	Peg		X	
X	10/11/2015	22:24	NGC 7468	Galaxy	23:03.0	+16:36	4.0	13.7	Peg			
X	9/25/2016	21:34	NGC 7469	Galaxy	23:03.3	+8:52	1.5	12.3	Peg			
X	1/22/2012	20:20	NGC 7479	Galaxy	23:04.9	+12:19	4.0	10.8	Peg	X		
X	12/3/2004	19:07	NGC 7492	Globular Cluster	23:08.4	-15:37	6.2	11.5	Aqr			
X	8/19/2012	1:07	NGC 7497	Galaxy	23:09.1	+18:11	2.3	12.2	Peg			
X	9/25/2014	23:05	NGC 7510	Open Cluster	23:11.5	+60:34	4.0	7.9	Cep	X		
X	10/11/2015	21:44	NGC 7506	Galaxy	23:11.8	-2:20	1.7	12.9	Psc			
X	8/24/2006	0:33	NGC 7507	Galaxy	23:12.1	-28:32	10.4		Scl		X	
X	10/11/2015	22:15	NGC 7515	Galaxy	23:12.9	+12:41	1.3	12.4	Peg			
X	10/6/2013	21:10	NGC 7538	Nebula	23:13.5	+61:31	11.5	5.0	Cep			

X	8/19/2012	0:35	NGC 7526	Asterism	23:13.9	-9:12		2.7	Aqr			
X	9/30/2005	23:58	NGC 7537	Galaxy	23:14.6	+4:30	1.9	13.2	Psc			
X	9/30/2005	23:58	NGC 7541	Galaxy	23:14.7	+4:32	3.1	11.7	Psc		X	
X	10/11/2015	22:19	NGC 7550	Galaxy	23:15.3	+18:57	1.0	12.2	Peg			
X	10/11/2015	21:47	NGC 7556	Galaxy	23:15.9	-2:20	2.4	11.7	Psc			
X	10/11/2015	22:19	NGC 7559	Galaxy	23:15.9	+13:17	1.9	13.8	Peg			
X	10/1/2005	0:06	NGC 7562	Galaxy	23:16.0	+6:41	2.1	11.6	Psc		X	
X	10/11/2015	22:19	NGC 7563	Galaxy	23:16.0	+13:11	2.6	12.8	Peg			
X	10/11/2015	21:47	NGC 7566	Galaxy	23:16.6	-2:21	1.5	13.7	Psc			
X	10/30/2015	19:32	NGC 7570	Galaxy	23:16.8	+13:29	1.9	13.2	Peg			
X	10/11/2015	22:27	NGC 7578	Galaxy	23:17.2	+18:41	2.4	14.0	Peg			
X	8/19/2012	0:30	NGC 7576	Galaxy	23:17.4	-4:44	1.5	13.0	Aqr			
X	10/27/2008	20:14	NGC 7585	Galaxy	23:18.0	-4:39	2.3	11.7	Aqr			
X	10/11/2015	21:08	NGC 7592	Galaxy	23:18.4	-4:25	1.1	14.2	Aqr			
X	8/23/2006	23:45	NGC 7600	Galaxy	23:18.9	-7:35	3.0	11.9	Aqr		X	
X	8/10/2002	2:24	NGC 7606	Galaxy	23:19.1	-8:29	5.8	10.8	Aqr	X		
X	9/29/2016	23:30	NGC 7619	Galaxy	23:20.2	+8>12	2.8	11.1	Peg		X	
X	10/27/2008	19:31	NGC 7625	Galaxy	23:20.5	+17:14	1.4	12.1	Peg			
X	9/29/2016	23:30	NGC 7623	Galaxy	23:20.5	+8:24	1.6	12.8	Peg		X	
X	10/6/2013	21:18	NGC 7635	Nebula	23:20.7	+61:12		5.0	Cas		X	
X	10/11/2015	22:53	NGC 7626	Galaxy	23:20.7	+8:13	2.4	11.1	Peg		X	
X	10/11/2015	22:05	NGC 7634	Galaxy	23:21.6	+8:52	1.2	12.6	Peg			
X	9/30/2006	3:02	NGC 7640	Galaxy	23:22.1	+40:51	2.0	10.9	And		X	
X	10/11/2015	22:09	NGC 7648	Galaxy	23:23.8	+9:39	1.6	13.0	Peg			
X	1/18/2015	19:51	NGC 7647	Galaxy	23:24.1	+16:47	2.3	13.6	Peg			
X	11/2/2007	23:42	NGC 7662	Planetary Nebula	23:25.9	+42:33	0.1	8.3	And	X		
X	1/17/2015	19:27	NGC 7659	Galaxy	23:26.0	+14:12	2.2	14.0	Peg			
X	8/19/2012	0:33	NGC 7665	Galaxy	23:27.2	-9:24	0.9	12.7	Aqr			
X	8/19/2012	1:19	NGC 7671	Galaxy	23:27.3	+12:28		12.8	Peg			
X	10/27/2008	19:38	NGC 7678	Galaxy	23:28.5	+22:25	3.7	11.8	Peg			
X	1/5/2013	18:46	NGC 7680	Galaxy	23:28.5	+32:24		12.6	Peg			
X	1/18/2015	19:53	NGC 7681	Galaxy	23:28.6	+17:16	2.6	13.7	Peg			
X	10/10/2007	20:01	NGC 7686	Open Cluster	23:30.2	+49:08	14.0	5.6	And	X		
X	1/18/2015	19:57	NGC 7685	Galaxy	23:30.6	+3:54	1.7	13.2	Psc			
X	1/18/2015	20:47	NGC 7691	Galaxy	23:32.6	+15:50	2.0	12.9	Peg			
X	10/11/2015	21:41	NGC 7694	Galaxy	23:33.4	-2:42	1.8	12.8	Psc			
X	10/17/2009	22:51	NGC 7701	Galaxy	23:34.6	-2:51	1.6	13.7	Psc			
X	1/16/2015	19:10	NGC 7707	Galaxy	23:34.8	+44:18	1.4	13.4	And			
X	1/18/2015	20:44	NGC 7711	Galaxy	23:35.7	+15:18	1.6	12.2	Peg			
X	8/9/2010	23:55	NGC 7720	Galaxy	23:38.5	+27:02	2.3	12.3	Peg			
X	8/19/2012	0:03	NGC 7721	Galaxy	23:38.8	-6:31	3.3	11.6	Aqr			
X	8/10/2002	2:35	NGC 7723	Galaxy	23:38.9	-12:58	2.8	11.2	Aqr	X		
X	10/11/2015	21:34	NGC 7725	Galaxy	23:39.3	-4:32	0.8	12.2	Aqr			
X	8/10/2002	2:35	NGC 7727	Galaxy	23:39.9	-12:18	5.6	10.6	Aqr	X		
X	8/19/2012	1:10	NGC 7741	Galaxy	23:43.9	+26:05	2.1	11.3	Peg			
X	10/1/2005	0:26	NGC 7742	Galaxy	23:44.3	+10:46		11.6	Peg		X	
X	8/19/2012	0:51	NGC 7743	Galaxy	23:44.4	+9:56	2.3	11.5	Peg			
X	10/11/2015	21:59	NGC 7750	Galaxy	23:46.7	+3:47	1.6	12.9	Psc			
X	10/30/2015	19:28	NGC 7751	Galaxy	23:47.0	+6:51	1.5	12.8	Psc			
X	12/28/2008	5:52	NGC 7753	Galaxy	23:47.1	+29:29	1.1	12.0	Peg			
X	1/18/2015	20:19	NGC 7760	Galaxy	23:49.3	+30:58		13.4	Peg			
X	9/3/2005	2:05	NGC 7762	Open Cluster	23:49.8	+68:02	11.0	10.0	Cep		X	
X	11/7/2012	20:53	NGC 7769	Galaxy	23:51.1	+20:09	2.3	12.0	Peg			
X	11/7/2012	20:53	NGC 7771	Galaxy	23:51.4	+20:07	1.5	12.2	Peg			
X	1/18/2015	20:22	NGC 7773	Galaxy	23:52.3	+31:16	5.4	13.4	Peg			

X	7/30/2011	1:49	NGC 7778	Galaxy	23:53.3	+7:52	1.1	12.7	Psc			
X	7/30/2011	0:58	NGC 7779	Galaxy	23:53.4	+7:52	1.3	12.7	Psc			
X	8/19/2012	0:39	NGC 7782	Galaxy	23:53.9	+7:58	1.9	12.2	Psc			
X	10/1/2005	0:47	NGC 7785	Galaxy	23:55.3	+5:55	1.8	11.6	Psc		X	
X	8/17/2001	1:01	NGC 7789	Open Cluster	23:57.0	+54:20	16.0	6.7	Cas	X		
X	8/9/2002	1:53	NGC 7790	Open Cluster	23:58.4	+61:13	17.0	8.5	Cas	X		
X	1/18/2015	20:48	NGC 7794	Galaxy	23:58.6	+10:42	1.0	12.5	Peg			
X	1/18/2015	20:01	NGC 7797	Galaxy	23:59.0	+3:38	1.1	13.7	Psc			
X	11/7/2012	21:02	NGC 7798	Galaxy	23:59.4	+20:45			Peg			
X	11/7/2012	21:06	NGC 7800	Galaxy	23:59.6	+14:49	2.3	12.6	Peg			
X	1/17/2015	22:16	NGC 1160	Galaxy	3:01.2	+44:58	1.6	12.8	Per			
X	1/17/2015	22:16	NGC 1161	Galaxy	3:01.2	+44:55	6.0	11.0	Per		X	
X	10/1/2005	3:40	NGC 1172	Galaxy	3:01.6	-14:50	2.2	12.0	Eri		X	
X	1/17/2005	21:59	NGC 1167	Galaxy	3:01.7	+35:12	4.7	12.3	Per			
X	10/23/2006	23:43	NGC 1187	Galaxy	3:02.6	-22:52	3.4	10.7	Eri		X	
X	10/23/2006	23:15	NGC 1169	Galaxy	3:03.6	+46:23		11.7	Per		X	
X	1/9/2010	20:18	NGC 1199	Galaxy	3:03.6	-15:37	2.6	11.5	Eri		X	
X	1/5/2013	19:56	NGC 1200	Galaxy	3:03.8	-11:59	1.6	12.7	Eri			
X	1/21/2014	18:20	NGC 1201	Galaxy	3:04.1	-26:04	4.4	10.6	For			
X	10/23/2006	22:33	NGC 1175	Galaxy	3:04.5	+42:20		12.8	Per		X	
X	8/19/2012	2:44	NGC 1186	Galaxy	3:05.5	+42:50		11.4	Per			
X	10/23/2006	22:58	NGC 1193	Open Cluster	3:05.8	+44:23	2.0	12.6	Per		X	
X	10/1/2005	3:40	NGC 1209	Galaxy	3:06.0	-15:37	2.7	11.4	Eri		X	
X	1/5/2013	20:00	NGC 1208	Galaxy	3:06.2	-9:32	1.9	12.6	Eri			
X	10/23/2006	21:09	NGC 1207	Galaxy	3:08.2	+38:23	1.2	12.6	Per		X	
X	1/16/2009	18:43	NGC 1232	Galaxy	3:09.8	-20:35	1.8	9.9	Eri			
X	2/20/2004	20:05	NGC 1239	Galaxy	3:11.0	-2:31	1.1	14.2	Eri			
X	12/28/2008	19:49	NGC 1241	Galaxy	3:11.3	-8:55	2.8	12.0	Eri			
X	1/5/2013	20:03	NGC 1242	Galaxy	3:11.3	-8:54	0.9	13.7	Eri			
X	1/20/2012	21:46	NGC 1247	Galaxy	3:12.2	-10:29	2.9	12.5	Eri			
X	12/27/2013	19:40	NGC 1248	Galaxy	3:12.8	-5:13	1.1	12.5	Eri			
X	1/15/2015	22:28	NGC 1253	Galaxy	3:14.1	-2:49	5.4	11.7	Eri			
X	8/2/2008	2:20	NGC 1245	Open Cluster	3:14.7	+47:15	10.0	8.4	Per	X		
X	12/27/2013	19:30	NGC 1266	Galaxy	3:16.0	-2:24	1.5	12.7	Eri			
X	9/29/2006	22:52	NGC 1184	Galaxy	3:16.6	+80:48		12.4	Cep		X	
X	12/27/2012	19:43	NGC 1284	Galaxy	3:17.6	-10:18		12.1	Eri			
X	12/27/2013	19:34	NGC 1287	Galaxy	3:18.6	-2:45	0.9	14.2	Eri			
X	1/17/2015	22:25	NGC 1275	Galaxy	3:19.8	+41:31	3.2	11.6	Per			
X	12/27/2013	19:42	NGC 1299	Galaxy	3:20.1	-6:17	1.2	13.6	Eri			
X	12/27/2013	19:37	NGC 1304	Galaxy	3:21.0	-4:35	1.3	13.7	Eri			
X	1/16/2015	0:20	NGC 1293	Galaxy	3:21.6	+41:24	1.8	13.4	Per			
X	1/17/2015	21:50	NGC 1294	Galaxy	3:21.7	+41:22	1.7	13.1	Per			
X	12/27/2013	19:44	NGC 1309	Galaxy	3:22.1	-15:24	2.3	11.6	Eri			
X	12/27/2013	19:32	NGC 1308	Galaxy	3:22.5	-2:454	1.3	13.9	Eri			
X	1/16/2015	22:38	NGC 1325	Galaxy	3:24.4	-21:33	2.1	11.6	Eri		X	
X	9/28/2016	2:03	NGC 1320	Galaxy	3:24.8	-3:01	1.7	12.4	Eri			
X	12/28/2016	19:41	NGC 1321	Galaxy	3:24.9	-3:00	1.1	13.7	Eri			
X	12/27/2013	19:38	NGC 1324	Galaxy	3:25.0	-5:45	2.0	13.4	Eri			
X	9/30/2006	3:51	NGC 1332	Galaxy	3:26.3	-21:20	4.6	10.3	Eri		X	
X	1/16/2015	22:33	NGC 1331	Galaxy	3:26.5	-21:21		13.2	Eri			
X	1/21/2012	21:21	NGC 1344	Galaxy	3:28.3	-31:04	25.0	10.3	For			
X	1/23/2012	20:49	NGC 1342	Open Cluster	3:31.6	+37:20		6.7	Per	X		
X	10/23/2006	23:47	NGC 1353	Galaxy	3:32.1	-20:49	2.3	11.4	Eri		X	
X	12/27/2013	20:05	NGC 1354	Galaxy	3:32.4	-15:13	2.7	13.7	Eri			
X	12/27/2013	20:06	NGC 1357	Galaxy	3:33.2	-13:40	3.6	11.5	Eri			

X	12/27/2013	20:08	NGC 1358	Galaxy	3:33.7	-5:05	2.8	12.1	Eri			
X	2/20/2007	21:25	NGC 1348	Open Cluster	3:33.8	+51:26		5.0	Per		X	
X	1/16/2015	22:15	NGC 1362	Galaxy	3:33.8	-20:17		12.5	Eri			
X	1/9/2010	20:04	NGC 1366	Galaxy	3:33.9	-31:12		11.9	For			
X	1/21/2012	20:58	NGC 1371	Galaxy	3:35.0	-24:56	3.0	10.6	For			
X	1/16/2015	22:17	NGC 1370	Galaxy	3:35.2	-20:22	1.8	12.4	Eri			
X	12/27/2013	19:55	NGC 1377	Galaxy	3:36.7	-20:54		12.4	Eri			
X	1/16/2009	19:11	NGC 1376	Galaxy	3:37.1	-5:03	2.2	12.1	Eri			
X	1/21/2012	20:56	NGC 1385	Galaxy	3:37.5	-24:30	3.0	11.2	For			
X	1/27/2013	20:35	NGC 1343	Galaxy	3:37.8	+72:34	27.0	12.3	Cas			
X	1/21/2012	20:46	NGC 1395	Galaxy	3:38.5	-23:02	5.4	9.7	Eri			
X	1/16/2015	21:57	NGC 1393	Galaxy	3:38.6	-18:26		12.0	Eri			
X	12/27/2013	19:52	NGC 1401	Galaxy	3:39.4	-22:44	2.1	12.3	Eri			
X	10/23/2006	23:52	NGC 1400	Galaxy	3:39.5	-18:41		11.1	Eri		X	
X	12/27/2013	20:09	NGC 1397	Galaxy	3:39.6	-4:40	1.5	13.7	Eri			
X	10/5/2002	0:29	NGC 1407	Galaxy	3:40.2	-18:35	2.5	9.8	Eri	X		
X	1/21/2012	20:41	NGC 1415	Galaxy	3:41.0	-22:34	3.0	11.5	Eri			
X	12/27/2013	20:15	NGC 1409	Galaxy	3:41.2	-1:17	0.9	13.9	Tau			
X	12/27/2013	20:11	NGC 1417	Galaxy	3:42.0	-4:42	2.8	12.0	Eri			
X	1/16/2009	19:01	NGC 1425	Galaxy	3:42.2	-29:54	1.8	10.8	For			
X	12/27/2013	20:11	NGC 1418	Galaxy	3:42.3	-4:44	0.9	13.6	Eri			
X	9/26/2011	5:16	NGC 1421	Galaxy	3:42.5	-13:29	2.8	11.4	Eri		X	
X	1/21/2012	20:49	NGC 1426	Galaxy	3:42.8	-22:07	2.8	11.4	Eri			
X	12/27/2013	19:53	NGC 1439	Galaxy	3:44.8	-21:55		11.2	Eri			
X	12/27/2013	20:00	NGC 1440	Galaxy	3:45.0	-18:16	2.5	11.5	Eri			
X	12/27/2013	19:59	NGC 1452	Galaxy	3:45.4	-18:38	3.3	12.1	Eri			
X	12/27/2013	20:12	NGC 1441	Galaxy	3:45.7	-4:06	1.5	12.9	Eri			
X	12/27/2013	20:14	NGC 1453	Galaxy	3:46.4	-3:58	2.1	11.6	Eri			
X	12/27/2013	20:04	NGC 1461	Galaxy	3:48.5	-16:24		11.7	Eri			
X	12/27/2013	20:12	NGC 1444	Open Cluster	3:49.4	+52:40	4.0	6.6	Per	X		
X	1/16/2015	10:21	NGC 1482	Galaxy	3:54.7	-20:30		12.1	Eri			
X	1/21/2014	20:52	NGC 1491	Nebula	4:03.4	+51:19	21'		Per		X	
X	10/24/2006	0:30	NGC 1507	Galaxy	4:04.5	-2:11	3.4	12.2	Eri		X	
X	11/27/2003	21:30	NGC 1501	Planetary Nebula	4:07.0	+60:55	0.9	11.5	Cam	X		
X	10/11/2007	22:54	NGC 1502	Open Cluster	4:07.7	+62:20	8.0	5.7	Cam	X		
X	12/27/2013	20:17	NGC 1516A	Galaxy	4:08.1	-8:53	0.5	11.6	Eri			
X	2/25/2006	21:27	NGC 1514	Planetary Nebula	4:09.2	+30:47	1.9	10.9	Tau		X	
X	1/23/2012	20:13	NGC 1513	Open Cluster	4:10.0	+49:31	9.0	8.4	Per	X		
X	2/24/2006	19:11	NGC 1535	Planetary Nebula	4:14.2	-12:44	0.7	9.6	Eri	X		
X	10/23/2006	20:57	NGC 1528	Open Cluster	4:15.4	+51:14	24.0	6.4	Per	X		
X	12/27/2013	20:27	NGC 1550	Galaxy	4:19.6	+2:26	1.7	12.0	Tau			
X	3/5/2013	19:52	NGC 1552	Galaxy	4:20.3	-0:40	2.0	12.9	Eri			
X	2/24/2001	22:25	NGC 1545	Open Cluster	4:20.9	+50:15	18'	6.2	Cyg	X		
X	12/27/2013	20:23	NGC 1576	Galaxy	4:26.2	-3:37	1.3	13.5	Eri			
X	1/21/2014	20:52	NGC 1579	Nebula	4:30.2	+35:16	7.8"x5.4"		Per		X	
X	2/4/2005	18:34	NGC 1587	Galaxy	4:30.7	+0:40	1.8	11.7	Tau		X	
X	3/5/2005	19:20	NGC 1569	Galaxy	4:30.8	+64:51	2.8	11.2	Cam			
X	1/20/2012	22:07	NGC 1589	Galaxy	4:30.8	+0:51	3.1	11.8	Tau			
X	12/27/2013	20:25	NGC 1588	Galaxy	4:30.8	+0:39	1.4	12.9	Tau			
X	10/24/2006	0:39	NGC 1600	Galaxy	4:31.7	-5:05	2.3	10.9	Eri		X	
X	3/17/2007	20:18	NGC 1582	Open Cluster	4:32.0	+43:51	37.0	7.0	Per		X	
X	12/27/2013	20:20	NGC 1609	Galaxy	4:32.6	-4:22	1.1	13.5	Eri			
X	12/27/2013	20:20	NGC 1611	Galaxy	4:33.0	-4:17	1.9	13.0	Eri			
X	3/11/2007	22:35	NGC 1605	Open Cluster	4:35.0	+45:15	5.0	10.7	Per		X	
X	1/17/2015	0:33	NGC 1618	Galaxy	4:36.1	-3:09	2.8	12.6	Eri		X	

X	3/5/2013	19:45	NGC 1620	Galaxy	4:36.6	-0:09	2.9	12.3	Eri			
X	10/27/2013	20:29	NGC 1633	Galaxy	4:40.0	+7:21	1.1	13.5	Tau			
X	12/27/2013	20:29	NGC 1634	Galaxy	4:40.0	+7:20	0.5	14.1	Tau			
X	3/5/2013	19:45	NGC 1635	Galaxy	4:40.1	-0:33	1.5	12.4	Eri			
X	10/26/2013	20:58	NGC 1624	Cluster with Nebula	4:40.4	+50:27	5.0	10.4	Per		X	
X	1/17/2015	20:59	NGC 1636	Galaxy	4:40.7	-8:36	1.3	12.0	Eri			
X	2/4/2005	18:59	NGC 1637	Galaxy	4:41.5	-2:51	3.3	10.9	Eri		X	
X	3/5/2013	19:43	NGC 1638	Galaxy	4:41.6	-1:49	2.5	12.1	Eri			
X	3/5/2013	19:34	NGC 1643	Galaxy	4:43.6	-5:17	1.1	12.8	Eri			
X	3/5/2013	19:27	NGC 1646	Galaxy	4:44.3	-8:33		13.0	Eri			
X	3/5/2013	19:41	NGC 1653	Galaxy	4:45.8	-2:25	1.7	12.0	Eri			
X	10/6/1999	1:19	NGC 1647	Open Cluster	4:46.0	+19:04	45.0	6.4	Tau	X		
X	3/5/2013	19:40	NGC 1659	Galaxy	4:46.5	-4:47	1.7	12.5	Eri			
X	12/27/2013	20:18	NGC 1665	Galaxy	4:48.2	-5:25	1.9	13.2	Eri			
X	10/24/2006	1:56	NGC 1662	Open Cluster	4:48.5	+10:56	20.0	6.4	Ori		X	
X	10/5/2002	4:50	NGC 2264	Cluster with Nebula	4:48.6	+9:53	60.0	3.9	Mon	X		
X	10/24/2006	2:01	NGC 1663	Open Cluster	4:48.6	+13:10	9'		Ori		X	
X	3/5/2013	19:20	NGC 1670	Galaxy	4:49.9	-2:44	1.9	12.7	Ori			
X	2/24/2001	22:27	NGC 1664	Open Cluster	4:51.1	+43:42		18.0	Aur	X		
X	3/5/2013	19:17	NGC 1678	Galaxy	4:51.7	-2:38	1.1	13.2	Ori			
X	3/5/2013	19:14	NGC 1682	Galaxy	4:52.3	-3:06	1.0	11.8	Ori			
X	3/5/2013	19:14	NGC 1684	Galaxy	4:52.5	-3:06	2.3	11.7	Ori			
X	2/4/2005	18:55	NGC 1700	Galaxy	4:56.9	-4:52	2.9	11.0	Eri		X	
X	1/5/2013	20:29	NGC 1713	Galaxy	4:58.9	-0:30	2.2	12.7	Ori			
X	3/5/2013	19:23	NGC 1729	Galaxy	5:00.1	-3:21	1.9	12.3	Ori			
X	2/4/2005	20:11	NGC 1762	Galaxy	5:03.6	+1:34	1.6	12.6	Ori		X	
X	2/3/2005	21:00	NGC 1750	Open Cluster	5:03.9	+23:39			Tau		X	
X	1/5/2013	20:08	NGC 1758	Open Cluster	5:04.4	+23:46	40'		Tau			
X	10/24/2006	0:45	NGC 1779	Galaxy	5:05.3	-9:09	2.2	12.1	Eri		X	
X	10/5/2002	2:09	NGC 1788	Nebula	5:06.9	-3:21		8.0	Ori	X		
X	2/28/2016	19:06	NGC 1794	Galaxy	5:07.9	-18:11			Lep			
X	3/4/2005	21:22	NGC 1778	Open Cluster	5:08.1	+37:03	7.0	7.7	Aur		X	
X	1/2/2019	19:41	NGC 1802	Open Cluster	5:10.1	+24 08.4	20		Tau			
X	10/6/1999	1:45	NGC 1817	Open Cluster	5:12.1	+16:42	16.0	7.7	Tau	X		
X	11/8/2012	0:02	NGC 1832	Galaxy	5:12.1	-15:41	3.5	11.4	Lep		X	
X	2/24/2001	22:29	NGC 1857	Open Cluster	5:20.2	+39:21	6.0	7.0	Aur	X		
X	12/28/2008	21:12	NGC 1888	Galaxy	5:22.5	-11:30	3.6	12.0	Lep			
X	2/3/2005	22:28	NGC 1883	Open Cluster	5:25.9	+46:33	3.0	12.0	Aur		X	
X	4/1/2005	19:41	NGC 1924	Galaxy	5:27.9	-5:19	1.4	12.5	Ori			
X	1/6/2009	20:05	NGC 1907	Open Cluster	5:28.0	+35:19	7.0	8.2	Aur	X		
X	10/26/2013	23:24	NGC 1931	Cluster with Nebula	5:31.4	+34:15	3.0	11.3	Aur	X		
X	12/27/2013	21:17	NGC 1954	Galaxy	5:32.8	-14:04		11.8	Lep			
X	12/28/2008	21:24	NGC 1964	Galaxy	5:33.4	-21:57		10.8	Lep	X		
X	12/17/2011	21:45	NGC 1979	Galaxy	5:33.8	-23:19	1.4	11.8	Lep			
X	12/28/2008	23:29	NGC 1980	Nebula	5:35.4	-5:54		14.0	Ori	X		
X	10/26/2013	23:30	NGC 1977	Nebula	5:35.5	-4:52		20.0	Ori		X	
X	12/27/2013	21:25	NGC 1993	Galaxy	5:35.5	-17:49	2.0	12.4	Lep			
X	10/26/2013	23:32	NGC 1982	Nebula	5:35.6	-5:16	20.0	9.0	Ori			
X	10/26/2013	23:42	NGC 1990	Nebula	5:36.2	-1:12	4.9	50.0	Ori		X	
X	10/26/2013	23:38	NGC 1999	Nebula	5:36.5	-6:42	21.5'x18'		Ori	X		
X	1/5/2013	18:58	NGC 1985	Planetary Nebula	5:37.7	+32:00			Aur			
X	2/13/1988	21:28	NGC 2023	Nebula	5:41.6	-2:14	1.5	10.0	Ori		X	
X	12/28/2008	23:23	NGC 2024	Nebula	5:41.9	-1:51	14.5	30.0	Ori	X		
X	9/25/2003	3:44	NGC 1961	Galaxy	5:42.1	+69:23	7.6	11.1	Cam	X		
X	2/25/2006	19:26	NGC 2022	Planetary Nebula	5:42.1	+9:05	0.3	11.9	Ori	X		

X	12/27/2013	21:28	NGC 2073	Galaxy	5:45.9	-21:59	3.4	12.4	Lep			
X	12/27/2013	21:18	NGC 2076	Galaxy	5:46.8	-16:46		13.0	Lep			
X	2/4/2005	19:40	NGC 2071	Nebula	5:47.2	-0:18	8'x7.7'		Ori		X	
X	12/27/2013	21:23	NGC 2089	Galaxy	5:47.8	-17:36	2.8	11.9	Lep			
X	1/5/2013	20:34	NGC 2110	Galaxy	5:52.2	-7:27	1.6	12.4	Ori			
X	1/17/2004	21:33	NGC 2112	Open Cluster	5:53.9	+0:24	11.0	8.4	Ori		X	
X	12/27/2013	21:26	NGC 2124	Galaxy	5:57.9	-20:04	1.4	12.6	Lep			
X	4/6/2016	21:50	NGC 2129	Open Cluster	6:01.0	+23:18	7.0	6.7	Gem	X		
X	2/3/2005	20:42	NGC 2139	Galaxy	6:01.1	-23:40	2.8	11.4	Lep		X	
X	10/5/2002	0:42	NGC 2126	Open Cluster	6:03.0	+49:54	6.0	10.2	Aur	X		
X	2/4/2005	19:48	NGC 2170	Nebula	6:07.5	-6:24		2.0	Mon		X	
X	1/1/2006	21:24	NGC 2158	Open Cluster	6:07.5	+24:06	5.0	8.6	Gem	X		
X	1/1/2006	21:24	NGC 2169	Open Cluster	6:08.4	+13:57	7.0	5.9	Ori	X		
X	1/17/2004	21:54	NGC 2182	Nebula	6:09.5	-6:20		3.0	Mon		X	
X	10/5/2002	3:30	NGC 2185	Nebula	6:11.1	-6:13	6.2	3.0	Mon	X		
X	10/5/2002	2:18	NGC 2186	Open Cluster	6:12.2	+5:27	4.0	8.7	Ori	X		
X	3/4/2005	19:41	NGC 2196	Galaxy	6:12.2	-21:48	7.2	11.2	Lep		X	
X	3/4/2005	19:39	NGC 2194	Open Cluster	6:13.8	+12:48	10.0	8.5	Ori	X		
X	3/4/2005	21:35	NGC 2192	Open Cluster	6:15.2	+39:51	6.0	10.9	Aur		X	
X	4/3/2003	20:27	NGC 2204	Open Cluster	6:15.7	-18:39	13.0	8.6	CMa	X		
X	10/5/2002	3:27	NGC 2215	Open Cluster	6:21.0	-7:17	11.0	8.4	Mon	X		
X	1/20/2006	20:33	NGC 2232	Open Cluster	6:26.6	-4:45		30.0	Mon	X		
X	2/12/2013	21:29	NGC 2225	Open Cluster	6:26.6	-9:39			Mon			
X	2/4/2005	20:00	NGC 2236	Open Cluster	6:29.7	+6:50	7.0	8.5	Mon		X	
X	1/1/2006	21:53	NGC 2244	Open Cluster	6:32.4	+4:52	23'	4.8	Mon	X		
X	1/17/2004	22:58	NGC 2245	Nebula	6:32.7	+10:10	2'		Mon		X	
X	11/8/2015	22:03	NGC 2240	Open Cluster	6:33.0	+35.15.0			Aur			
X	10/5/2002	3:37	NGC 2251	Open Cluster	6:34.7	+8:22	10'	7.3	Mon	X		
X	1/25/2017	20:42	NGC 2252	Open Cluster	6:35.0	+5:23	20.0	7.7	Mon		X	
X	1/25/2017	20:46	NGC 2254	Open Cluster	6:36.0	+7:40	4.0	9.7	Mon		X	
X	2/12/2013	21:32	NGC 2262	Open Cluster	6:38.4	+1:11		4.0	Mon			
X	2/25/2017	20:47	NGC 2259	Open Cluster	6:38.6	+10:53	5.0	10.8	Mon		X	
X	10/5/2002	4:07	NGC 2261	Nebula	6:39.2	-11:22		2.0	Mon		X	
X	10/24/2006	2:41	NGC 2253	Open Cluster	6:42.4	+66:20			Cam		X	
X	2/24/2009	18:49	NGC 2266	Open Cluster	6:43.2	+26:58	7.0	9.5	Gem	X		
X	2/4/2005	20:59	NGC 2269	Open Cluster	6:43.9	+4:34	4.0	10.0	Mon		X	
X	3/11/2007	20:06	NGC 2283	Galaxy	6:45.9	-18:14	2.1	12.2	CMa		X	
X	3/5/2005	20:29	NGC 2274	Galaxy	6:47.2	+33:34	2.4	12.1	Gem		X	
X	3/5/2005	22:29	NGC 2275	Galaxy	6:47.2	+33:36	1.8	13.1	Gem			
X	10/5/2002	4:18	NGC 2286	Open Cluster	6:47.6	-3:10		15.0	Mon	X		
X	2/24/2001	21:23	NGC 2281	Open Cluster	6:49.3	+41:04	15.0	5.4	Aur	X		
X	4/8/2010	21:37	NGC 2289	Galaxy	6:50.7	+33:27		13.2	Gem			
X	12/27/2013	21:42	NGC 2290	Galaxy	6:51.0	+33:26		13.2	Gem			
X	2/24/2009	4:21	NGC 2301	Open Cluster	6:51.8	+0:28		12.0	Mon	X		
X	1/17/2004	22:50	NGC 2302	Open Cluster	6:51.9	-7:04		3.0	Mon		X	
X	2/24/2001	21:26	NGC 2304	Open Cluster	6:55.0	+21:34	5.0	10.0	Gem	X		
X	1/20/2004	21:41	NGC 2309	Open Cluster	6:56.2	-7:12	3.0	10.5	Mon		X	
X	10/5/2002	4:24	NGC 2311	Open Cluster	6:57.8	-4:35	6'	9.6	Mon	X		
X	2/12/2013	21:23	NGC 2318	Open Cluster	6:59.5	-13:42			CMa			
X	2/20/2007	18:58	NGC 2316	Nebula	6:59.7	-7:46		4.0	Mon		X	
X	10/5/2002	4:28	NGC 2324	Open Cluster	7:04.2	+1:03		8.0	Mon	X		
X	2/12/2013	21:25	NGC 2327	Nebula	7:04.3	-11:18	3"x2"		CMa			
X	3/18/2015	23:54	NGC 2320	Galaxy	7:05.6	+50:36	1.5	11.9	Lyn			
X	3/18/2015	23:54	NGC 2322	Galaxy	7:05.9	+50:31		13.8	Lyn			
X	10/5/2002	4:31	NGC 2335	Open Cluster	7:06.6	-10:05	12.0	7.2	Mon	X		

X	3/4/2005	20:04	NGC 2331	Open Cluster	7:07.2	+27:21		8.5	Gem		X	
X	3/5/2002	20:33	NGC 2339	Galaxy	7:08.3	+18:47	1.6	11.6	Gem		X	
X	10/5/2002	4:35	NGC 2343	Open Cluster	7:08.3	-10:39	7.0	6.7	Mon	X		
X	1/5/2013	20:39	NGC 2333	Galaxy	7:08.4	+35:11		13.3	Gem			
X	3/18/2015	23:51	NGC 2326	Galaxy	7:08.4	+50:44	1.3	13.1	Lyn			
X	1/17/2015	23:45	NGC 2329	Galaxy	7:09.2	+48:37	1.8	12.4	Lyn			
X	1/25/2017	20:54	NGC 2346	Planetary Nebula	7:09.4	-0:48		0.9	Mon		X	
X	3/18/2005	23:48	NGC 2332	Galaxy	7:09.5	+50:11		12.8	Lyn			
X	4/8/2010	23:30	NGC 2340	Galaxy	7:11.0	+50:10	2.3	11.7	Lyn			
X	4/3/2003	20:05	NGC 2354	Open Cluster	7:14.3	-25:44	20.0	6.5	CMa	X		
X	1/20/2006	21:47	NGC 2353	Open Cluster	7:14.6	-10:18	20.0	7.1	Mon	X		
X	4/1/2005	20:34	NGC 2347	Galaxy	7:16.1	+64:43	4.3	12.5	Cam		X	
X	10/5/2002	2:23	NGC 2355	Open Cluster	7:16.9	+13:47	9.0	9.7	Gem	X		
X	1/25/2017	21:19	NGC 2358	NF	7:16.9	-17:06			CMa			
X	4/3/2003	20:17	NGC 2360	Open Cluster	7:17.8	-15:37	13.0	7.2	CMa	X		
X	1/21/2012	0:20	NGC 2359	Nebula	7:18.6	-13:12		7.8	CMa		X	
X	10/24/2006	3:05	NGC 2362	Cluster with Nebula	7:18.8	-24:57	8.0	4.1	CMa	X		
X	3/4/2005	20:51	NGC 2367	Open Cluster	7:20.1	-21:56	4.0	7.9	CMa		X	
X	4/1/2005	20:19	NGC 2374	Open Cluster	7:24.0	-13:16	19.0	8.0	CMa		X	
X	2/25/2006	23:37	NGC 2371	Planetary Nebula	7:25.6	+29:29	0.9	11.3	Gem	X		
X	2/25/2006	23:37	NGC 2372	Planetary Nebula	7:25.6	+29:30	0.9	11.3	Gem	X		
X	1/23/2012	23:40	NGC 2395	Open Cluster	7:27.1	+13:35	12.0	8.0	Gem	X		
X	2/4/2005	21:36	NGC 2396	Open Cluster	7:28.1	-11:44	10.0	7.4	Pup		X	
X	4/8/2010	21:29	NGC 2385	Galaxy	7:28.4	+33:50	0.3	14.2	Gem			
X	4/8/2010	21:29	NGC 2388	Galaxy	7:28.8	+33:49		13.7	Gem			
X	10/24/2006	2:56	NGC 2366	Galaxy	7:28.9	+69:13	1.7	10.9	Cam		X	
X	12/27/2013	20:50	NGC 2387	Galaxy	7:29.0	+36:52		1.0	Aur			
X	3/12/2010	22:12	NGC 2389	Galaxy	7:29.1	+33:51		12.8	Gem			
X	1/1/2006	22:10	NGC 2392	Planetary Nebula	7:29.2	+20:55	0.7	9.2	Gem	X		
X	3/23/2014	22:30	NGC 2401	Open Cluster	7:29.4	-13:58	2.0	12.6	Pup			
X	12/27/2013	21:47	NGC 2402	Galaxy	7:30.8	+9:39	3.7	14.4	CMi			
X	4/1/2005	19:59	NGC 2414	Open Cluster	7:33.3	-15:27	4.0	7.9	Pup		X	
X	2/24/2001	21:38	NGC 2421	Open Cluster	7:36.3	-20:37	10.0	8.3	Pup	X		
X	2/13/1988	22:00	NGC 2422	Open Cluster	7:36.6	-14:30	30.0	4.4	Pup	X		
X	3/11/2007	23:48	NGC 2415	Galaxy	7:36.9	+35:15	1.1	12.4	Lyn		X	
X	3/11/2007	23:48	NGC 2415	Galaxy	7:36.9	+35:15	1.1	12.4	Lyn		X	
X	4/22/2009	0:17	NGC 2403	Galaxy	7:36.9	+65:36	6.0	8.4	Cam	X		
X	3/4/2000	22:10	NGC 2423	Open Cluster	7:37.1	-13:52	19.0	6.7	Pup	X		
X	12/27/2013	22:40	NGC 2419	Globular Cluster	7:38.1	+38:53	4.1	10.4	Lyn	X		
X	2/28/2016	20:20	NGC 2425	Open Cluster	7:38.3	-14:52	3.3'		Pup			
X	2/24/2001	21:36	NGC 2420	Open Cluster	7:38.5	+21:34	10.0	8.3	Gem	X		
X	1/25/2017	21:12	NGC 2428	Asterism	7:39.3	-16:32	10		Pup			
X	4/1/2005	19:36	NGC 2432	Open Cluster	7:40.9	-19:05	7.0	10.2	Pup		X	
X	2/25/2006	21:53	NGC 2438	Planetary Nebula	7:41.8	-14:44	1.1	11.0	Pup	X		
X	2/25/2006	21:56	NGC 2440	Planetary Nebula	7:41.9	-18:13	0.5	9.4	Pup	X		
X	3/18/2015	23:57	NGC 2426	Galaxy	7:43.2	+52:49	2.2	13.1	Lyn			
X	1/5/2013	20:45	NGC 2435	Galaxy	7:44.2	+31:38	3.5	12.8	Gem			
X	3/19/2015	0:59	NGC 2431	Galaxy	7:45.3	+53:04		13.4	Lyn			
X	2/3/2005	21:01	NGC 2467	Cluster with Nebula	7:52.6	-26:23	14.0	7.1	Pup		X	
X	4/3/2003	20:33	NGC 2482	Open Cluster	7:54.9	-24:18	12.0	7.3	Pup	X		
X	3/4/2000	20:43	NGC 2479	Open Cluster	7:55.1	-17:43	7.0	9.6	Pup	X		
X	4/25/2003	20:55	NGC 2489	Open Cluster	7:56.2	-30:04	8.0	7.9	Pup	X		
X	1/5/2013	20:46	NGC 2481	Galaxy	7:57.3	+23:46	3.2	12.9	Gem			
X	3/19/2015	0:50	NGC 2474	Galaxy	7:57.9	+52:51		13.3	Lyn			
X	5/28/2014	22:18	NGC 2469	Galaxy	7:58.1	+56:41		12.7	Lyn			

X	10/5/2002	4:44	NGC 2506	Open Cluster	8:00.2	-10:47	7.0	7.6	Mon	X		
X	3/11/2007	23:54	NGC 2493	Galaxy	8:00.4	+39:50	1.2	12.0	Lyn		X	
X	3/4/2000	20:35	NGC 2509	Open Cluster	8:00.7	-19:04	8.0	9.3	Pup	X		
X	1/22/2012	22:22	NGC 2507	Galaxy	8:01.6	+15:43	2.0	12.2	Cnc			
X	3/19/2015	0:44	NGC 2488	Galaxy	8:01.8	+56:34		12.4	Lyn			
X	12/27/2013	22:52	NGC 2500	Galaxy	8:01.9	+50:44	6.6	11.6	Lyn		X	
X	2/12/2013	21:47	NGC 2508	Galaxy	8:02.0	+8:34	2.0	12.7	CMi			
X	3/19/2015	0:47	NGC 2497	Galaxy	8:02.3	+56:57		13.2	Lyn			
X	3/12/2010	22:23	NGC 2513	Galaxy	8:02.5	+9:25	2.5	11.6	Cnc			
X	1/18/2015	0:55	NGC 2512	Galaxy	8:03.1	+23:24	2.0	13.1	Cnc			
X	3/19/2015	0:39	NGC 2505	Galaxy	8:04.0	+53:34		13.2	Lyn			
X	4/3/2003	20:39	NGC 2527	Open Cluster	8:05.3	-28:10	22.0	6.5	Pup	X		
X	2/20/2007	19:20	NGC 2525	Galaxy	8:05.6	-11:26		11.6	Pup		X	
X	1/2/2019	19:54	NGC 2529	Galaxy	8:07.9	+17:49			Cnc			
X	3/28/2014	21:37	NGC 2532	Galaxy	8:10.2	+33:57	1.6	12.4	Lyn			
X	2/24/2009	21:21	NGC 2539	Open Cluster	8:10.7	-12:50	22.0	6.5	Pup	X		
X	3/19/2015	0:42	NGC 2534	Galaxy	8:12.9	+55:40		12.9	Lyn			
X	12/27/2013	22:34	NGC 2543	Galaxy	8:13.0	+36:15	1.2	11.9	Lyn			
X	12/27/2013	22:45	NGC 2537	Galaxy	8:13.2	+46:00		11.7	Lyn			
X	2/25/2006	0:05	NGC 2548	Open Cluster	8:13.8	-5:48	54.0	5.8	Hya	X		
X	3/5/2013	20:05	NGC 2545	Galaxy	8:14.2	+21:21	4.7	12.4	Cnc			
X	2/24/2009	0:06	NGC 2541	Galaxy	8:14.7	+49:04	3.6	11.8	Lyn		X	
X	1/18/2015	0:52	NGC 2554	Galaxy	8:17.9	+23:28		12.0	Cnc			
X	3/24/2014	21:44	NGC 2555	Galaxy	8:18.0	+0:44	1.9	12.2	Hya			
X	3/4/2000	21:50	NGC 2567	Open Cluster	8:18.6	-30:38	10.0	7.4	Pup	X		
X	1/22/2012	0:50	NGC 2566	Galaxy	8:18.7	-25:29	2.6	11.0	Pup			
X	3/4/2000	21:55	NGC 2571	Open Cluster	8:18.9	-29:44	13.0	7.0	Pup	X		
X	5/28/2014	22:16	NGC 2552	Galaxy	8:19.3	+50:01	0.8	12.1	Lyn			
X	1/18/2015	1:06	NGC 2558	Galaxy	8:19.4	+20:30	1.4	12.9	Cnc			
X	3/5/2013	20:17	NGC 2562	Galaxy	8:20.4	+21:08	1.1	12.9	Cnc			
X	3/5/2013	20:17	NGC 2563	Galaxy	8:20.6	+21:04		12.3	Cnc			
X	3/28/2014	23:06	NGC 2578	Galaxy	8:21.4	-13:19		12.4	Pup			
X	3/28/2014	21:49	NGC 2577	Galaxy	8:22.7	+22:33	2.6	12.4	Cnc			
X	1/18/2015	1:03	NGC 2582	Galaxy	8:25.3	+20:20		13.0	Cnc			
X	3/5/2013	20:24	NGC 2592	Galaxy	8:27.1	+25:58		12.3	Cnc			
X	1/18/2015	0:58	NGC 2595	Galaxy	8:27.7	+21:29	1.6	12.3	Cnc			
X	3/5/2013	20:26	NGC 2599	Galaxy	8:32.2	+22:34	1.1	12.2	Cnc			
X	3/28/2014	21:46	NGC 2604	Galaxy	8:33.3	+29:33	1.1	12.3	Cnc			
X	2/25/2006	22:17	NGC 2610	Planetary Nebula	8:33.4	-16:09	0.6	12.8	Hya		X	
X	4/21/2009	20:49	NGC 2613	Galaxy	8:33.4	-22:58	3.2	10.4	Pyx	X		
X	3/5/2013	20:31	NGC 2608	Galaxy	8:35.3	+28:28	2.6	12.3	Cnc			
X	1/25/2017	21:30	NGC 2618	Galaxy	8:36.2	+0:42	2.7	12.1	Hya			
X	3/12/2010	21:33	NGC 2627	Open Cluster	8:37.3	-29:57	11.0	8.4	Pyx	X		
X	3/5/2013	20:33	NGC 2619	Galaxy	8:37.6	+28:43	1.8	12.4	Cnc			
X	1/18/2015	0:41	NGC 2628	Galaxy	8:40.5	+23:33	1.3	13.3	Cnc			
X	3/5/2013	20:35	NGC 2648	Galaxy	8:42.7	+14:17	1.5	11.8	Cnc			
X	3/12/2007	0:15	NGC 2639	Galaxy	8:43.6	+50:12	2.0	11.8	UMa		X	
X	1/17/2015	0:42	NGC 2649	Galaxy	8:44.1	+34:43	2.5	12.3	Lyn			
X	1/17/2015	22:50	NGC 2661	Galaxy	8:46.0	+12:38	2.9	12.8	Cnc			
X	1/16/2015	22:56	NGC 2629	Galaxy	8:47.2	+72:59		12.3	UMa			
X	1/17/2015	0:42	NGC 2641	Galaxy	8:48.1	+72:54	1.0	13.6	UMa			
X	3/5/2013	22:37	NGC 2672	Galaxy	8:49.3	+19:04	2.5	11.6	Cnc			
X	1/25/2017	22:14	NGC 2650	Galaxy	8:50.0	+70:18		13.3	UMa			
X	1/18/2015	0:50	NGC 2679	Galaxy	8:51.5	+30:52	2.1	13.3	Cnc			
X	4/21/2009	21:36	NGC 2683	Galaxy	8:52.7	+33:25	9.3	9.7	Lyn	X		

X	4/9/2010	22:48	NGC 2681	Galaxy	8:53.5	+51:19	3.2	10.3	UMa	X		
X	3/24/2014	21:54	NGC 2695	Galaxy	8:54.5	-3:05	1.6	11.9	Hya			
X	5/28/2014	22:11	NGC 2684	Galaxy	8:54.8	+49:08	1.0	12.6	UMa			
X	1/26/2017	21:39	NGC 2691	Galaxy	8:54.8	+39:32	2.1	13.1	Lyn			
X	9/25/2003	3:51	NGC 2655	Galaxy	8:55.6	+78:13	6.5	10.1	Cam	X		
X	1/26/2017	21:32	NGC 2708	Galaxy	8:56.1	-3:22	2.6	12.0	Hya			
X	3/18/2015	23:39	NGC 2704	Galaxy	8:56.9	+39:22	1.1	13.4	Lyn			
X	12/27/2013	22:37	NGC 2693	Galaxy	8:57.0	+51:21	4.7	11.7	UMa			
X	3/15/2018	21:19	NGC 2692	Galaxy	8:57.0	+52:04		13.3	UMa			
X	12/27/2013	19:34	NGC 2722	Galaxy	8:58.8	-3:43	1.9	12.6	Hya			
X	4/6/2013	23:15	NGC 2718	Galaxy	8:58.9	+6:18	2.1	11.8	Hya			
X	3/24/2014	21:57	NGC 2721	Galaxy	8:58.9	-4:46	2.6	11.7	Hya			
X	5/28/2014	22:13	NGC 2701	Galaxy	8:59.1	+53:46		12.3	UMa			
X	3/15/2018	21:16	NGC 2710	Galaxy	8:59.8	+55:41		12.9	UMa			
X	3/18/2015	23:19	NGC 2719	Galaxy	9:00.3	+35:44	1.4	13.1	Lyn			
X	3/26/2014	0:39	NGC 2744	Galaxy	9:04.7	+18:28	0.9	13.4	Cnc			
X	5/28/2014	22:20	NGC 2726	Galaxy	9:04.9	+59:56	1.7	12.5	UMa			
X	1/18/2015	0:44	NGC 2743	Galaxy	9:05.0	+25:00		13.7	Cnc			
X	3/26/2014	1:14	NGC 2750	Galaxy	9:05.7	+25:26	1.9	11.9	Cnc			
X	3/18/2015	23:26	NGC 2746	Galaxy	9:06.0	+35:22		13.1	Lyn			
X	4/7/2013	23:18	NGC 2763	Galaxy	9:06.8	-15:30	1.5	12.1	Hya			
X	5/3/2000	0:01	NGC 2742	Galaxy	9:07.6	+60:29	6.6	11.4	UMa	X		
X	2/25/2006	0:40	NGC 2765	Galaxy	9:07.6	+3:23	1.7	12.1	Hya		X	
X	3/18/2015	23:45	NGC 2755	Galaxy	9:07.9	+41:43	13.6	13.2	Lyn			
X	3/28/2014	21:54	NGC 2764	Galaxy	9:08.3	+21:27	1.6	12.9	Cnc			
X	3/18/2015	23:28	NGC 2759	Galaxy	9:08.6	+37:37	3.3	13.0	Lyn			
X	3/12/2007	0:21	NGC 2756	Galaxy	9:09.0	+53:51	2.0	12.4	UMa		X	
X	5/28/2014	21:52	NGC 2770	Galaxy	9:09.6	+33:07	2.2	12.2	Lyn			
X	1/23/2012	0:52	NGC 2775	Galaxy	9:10.3	+7:02	4.5	10.3	Cnc	X		
X	1/16/2015	0:37	NGC 2774	Galaxy	9:10.6	+18:42	0.9	13.7	Cnc			
X	3/11/2007	22:53	NGC 2781	Galaxy	9:11.5	-14:49	3.9	11.5	Hya		X	
X	5/2/2000	23:45	NGC 2768	Galaxy	9:11.6	+60:02	5.9	9.9	UMa	X		
X	3/11/2007	23:12	NGC 2784	Galaxy	9:12.3	-24:10	5.1	10.1	Hya		X	
X	3/18/2015	21:56	NGC 2778	Galaxy	9:12.3	+35:01	2.1	12.4	Lyn			
X	3/18/2015	23:15	NGC 2780	Galaxy	9:12.7	+34:55		13.3	Lyn			
X	4/9/2010	0:03	NGC 2783A	Galaxy	9:13.6	+29:59	1.3	12.6	Cnc			
X	5/3/2000	0:12	NGC 2782	Galaxy	9:14.1	+40:07	3.8	11.5	Lyn	X		
X	5/3/2000	23:03	NGC 2811	Galaxy	9:16.2	-16:19	2.1	11.3	Hya	X		
X	4/7/2013	22:37	NGC 2815	Galaxy	9:16.3	-23:38	2.0	11.8	Hya			
X	1/17/2015	22:56	NGC 2802	Galaxy	9:16.7	+18:58	1.3	14.5	Cnc			
X	1/17/2015	22:56	NGC 2803	Galaxy	9:16.7	+18:58		14.3	Cnc			
X	1/18/2015	0:46	NGC 2796	Galaxy	9:16.7	+30:55	1.1	13.8	Cnc			
X	1/16/2009	21:13	NGC 2798	Galaxy	9:17.4	+42:00	3.8	12.3	Lyn			
X	3/15/2018	21:24	NGC 2800	Galaxy	9:18.6	+52:31		12.8	UMa			
X	4/8/2010	22:10	NGC 2787	Galaxy	9:19.3	+69:12	3.4	10.8	UMa	X		
X	1/16/2015	23:46	NGC 2832	Galaxy	9:19.8	+33:44	3.3	11.5	Lyn			
X	4/7/2013	23:14	NGC 2848	Galaxy	9:20.2	-16:32	1.7	12.1	Hya			
X	3/17/2007	20:39	NGC 2805	Galaxy	9:20.3	+64:06		11.3	UMa		X	
X	1/18/2015	23:01	NGC 2843	Galaxy	9:20.4	+18:57	0.5"x0.2"		Cnc			
X	3/18/2015	23:31	NGC 2838	Galaxy	9:20.7	+39:19		1.9	Lyn			
X	1/16/2015	23:42	NGC 2840	Galaxy	9:20.8	+35:23		13.8	Lyn			
X	1/23/2012	22:55	NGC 2814	Galaxy	9:21.2	+64:15	4.3	13.8	UMa			
X	3/11/2007	22:14	NGC 2855	Galaxy	9:21.5	-11:55	2.7	11.6	Hya		X	
X	1/23/2012	20:55	NGC 2820	Galaxy	9:21.8	+64:16	2.1	12.8	UMa			
X	5/28/2014	22:05	NGC 2844	Galaxy	9:21.8	+40:09	1.0	12.9	Lyn			

X	4/9/2010	0:10	NGC 2841	Galaxy	9:22.0	+50:58	6.1	9.2	UMa	X		
X	1/25/2017	22:16	NGC 2810A	Galaxy	9:22.1	+71:50	2.2	12.2	UMa			
X	3/18/2015	23:35	NGC 2852	Galaxy	9:23.2	+40:10	1.7	13.2	Lyn			
X	3/18/2015	23:35	NGC 2853	Galaxy	9:23.3	+40:12	1.1	13.3	Lyn			
X	3/24/2014	22:00	NGC 2863	Galaxy	9:23.6	-10:24	1.7	12.7	Hya			
X	1/9/2010	23:23	NGC 2854	Galaxy	9:24.0	+49:13	1.6	13.0	UMa			
X	1/9/2010	23:23	NGC 2856	Galaxy	9:24.2	+49:15	1.7	13.1	UMa			
X	5/3/2000	23:23	NGC 2859	Galaxy	9:24.3	+34:31	4.6	10.9	LMi	X		
X	3/12/2010	22:36	NGC 2872	Galaxy	9:25.7	+11:26	2.2	11.9	Leo			
X	1/23/2012	1:28	NGC 2874	Galaxy	9:25.8	+11:26		12.5	Leo			
X	3/11/2007	22:15	NGC 2889	Galaxy	9:27.2	-11:38	4.3	11.8	Hya		X	
X	3/15/2018	21:12	NGC 2870	Galaxy	9:27.8	+57:23		13.0	UMa			
X	3/5/2013	20:52	NGC 2894	Galaxy	9:29.4	+7:43	2.1	12.4	Leo			
X	3/17/2007	20:30	NGC 2880	Galaxy	9:29.6	+62:30		11.6	UMa		X	
X	4/7/2013	22:57	NGC 2893	Galaxy	9:30.3	+29:32	1.4	13.2	Leo			
X	3/24/2014	22:02	NGC 2902	Galaxy	9:30.9	-14:44	4.1	12.2	Hya			
X	4/7/2013	23:07	NGC 2907	Galaxy	9:31.6	-16:44	1.0	11.7	Hya			
X	4/25/2003	21:18	NGC 2903	Galaxy	9:32.2	+21:30	12.6	8.9	Leo	X		
X	1/23/2012	0:14	NGC 2905	Knot in Galaxy	9:32.2	+21:31		9.7	Leo			
X	3/25/2014	22:45	NGC 2906	Galaxy	9:32.2	+8:27	1.4	12.7	Leo			
X	2/24/2009	19:46	NGC 2911	Galaxy	9:33.8	+10:09	2.7	11.5	Leo			
X	2/24/2009	19:46	NGC 2914	Galaxy	9:34.0	+10:07		13.1	Leo			
X	3/24/2014	22:04	NGC 2921	Galaxy	9:34.7	-20:57		12.0	Hya			
X	4/8/2010	21:51	NGC 2916	Galaxy	9:35.0	+21:42	1.5	12.0	Leo			
X	5/28/2014	21:46	NGC 2918	Galaxy	9:35.8	+31:42	1.0	12.6	Leo			
X	4/7/2013	22:49	NGC 2935	Galaxy	9:36.7	-21:08		11.1	Hya			
X	1/18/2015	4:01	NGC 2939	Galaxy	9:38.1	+9:31	2.4	12.4	Leo			
X	1/25/2017	22:34	NGC 2938	Galaxy	9:38.3	+76:19		13.5	Dra			
X	1/18/2015	3:55	NGC 2948	Galaxy	9:38.9	+6:57	1.6	12.9	Leo			
X	5/28/2014	22:02	NGC 2955	Galaxy	9:41.3	+35:53	2.2	12.9	LMi			
X	3/24/2014	0:33	NGC 2969	Galaxy	9:41.8	-8:37	1.5	14.7	Sex			
X	3/25/2014	21:33	NGC 2967	Galaxy	9:42.1	+0:20	3.0	11.6	Sex			
X	4/25/2003	22:09	NGC 2974	Galaxy	9:42.6	-3:42	3.4	10.8	Sex	X		
X	1/23/2012	21:23	NGC 2950	Galaxy	9:42.6	+58:51		11.0	UMa	X		
X	3/27/2014	21:53	NGC 2964	Galaxy	9:42.9	31:51	3.2	11.3	Leo	X		
X	1/28/2017	0:42	NGC 2979	Galaxy	9:43.1	-10:23	2.0	12.8	Sex			
X	3/25/2014	0:31	NGC 2980	Galaxy	9:43.2	-9:37	1.6	13.0	Sex			
X	3/27/2014	21:53	NGC 2968	Galaxy	9:43.2	+31:56	2.5	11.8	Leo			
X	1/27/2017	21:14	NGC 2965	Galaxy	9:43.2	+36:14		13.4	LMi			
X	1/25/2017	22:37	NGC 2908	Galaxy	9:43.5	+79:41			Dra			
X	1/18/2015	4:06	NGC 2984	Galaxy	9:43.6	+11:04	0.8	13.4	Leo			
X	4/7/2013	22:57	NGC 2983	Galaxy	9:43.7	-20:29	3.4	11.7	Hya			
X	1/25/2017	22:30	NGC 2977	Galaxy	9:43.8	+74:52	2.2	12.5	Dra			
X	3/11/2007	23:04	NGC 2986	Galaxy	9:44.3	-21:17	7.1	10.6	Hya		X	
X	4/7/2016	0:58	NGC 2997	Galaxy	9:45.6	-31:11	21.0	9.3	Ant			
X	2/29/2008	23:35	NGC 2992	Galaxy	9:45.7	-14:20	1.6	11.9	Hya			
X	2/29/2008	23:35	NGC 2993	Galaxy	9:45.8	-14:22	1.2	12.6	Hya			
X	3/25/2014	22:19	NGC 2990	Galaxy	9:46.3	+5:43	1.3	12.8	Sex			
X	4/8/2010	22:40	NGC 2976	Galaxy	9:47.3	+67:55	4.6	10.2	UMa	X		
X	1/25/2017	22:19	NGC 2963	Galaxy	9:47.8	+72:58	1.8	13.5	Dra			
X	4/21/2009	21:54	NGC 3003	Galaxy	9:48.6	+33:25		11.7	LMi			
X	5/28/2014	22:08	NGC 2998	Galaxy	9:48.7	+44:05	1.9	12.5	UMa			
X	1/23/2012	1:38	NGC 3020	Galaxy	9:50.1	+12:49	1.8	11.9	Leo			
X	1/27/2017	21:02	NGC 2985	Galaxy	9:50.4	+72:17	3.9	10.4	UMa	X		
X	1/23/2012	1:38	NGC 3024	Galaxy	9:50.5	+12:46	2.1	13.1	Leo			

X	5/28/2014	23:59	NGC 3021	Galaxy	9:51.0	+33:33	1.4	12.1	LMi			
X	3/28/2014	22:14	NGC 3041	Galaxy	9:53.1	+16:41	4.1	11.5	Leo			
X	1/22/2012	2:33	NGC 3044	Galaxy	9:53.7	+1:35	4.8	12.0	Sex			
X	4/7/2013	23:00	NGC 3052	Galaxy	9:54.5	-18:38	1.8	12.2	Hya			
X	3/25/2014	21:53	NGC 3055	Galaxy	9:55.3	+4:16	2.2	12.1	Sex			
X	3/28/2014	22:18	NGC 3053	Galaxy	9:55.6	+16:26	2.2	12.7	Leo			
X	1/27/2017	21:05	NGC 3027	Galaxy	9:55.7	+72:12	16.2	11.8	UMa			
X	1/23/2012	0:14	NGC 3034	Galaxy	9:55.8	+69:41	25.1	8.4	UMa	X		
X	1/25/2017	22:31	NGC 3061	Galaxy	9:56.2	+75:52	1.5	12.8	Dra			
X	3/15/2018	21:09	NGC 3043	Galaxy	9:56.2	+59:18	1.5	12.6	UMa			
X	1/18/2015	4:16	NGC 3060	Galaxy	9:56.4	+16:51	3.8	13.0	Leo			
X	3/24/2014	22:07	NGC 3072	Galaxy	9:57.6	-19:21	3.3	12.7	Hya			
X	3/28/2014	22:12	NGC 3070	Galaxy	9:58.0	+10:22	4.6	12.3	Leo			
X	4/21/2006	0:47	NGC 3067	Galaxy	9:58.4	+32:22	1.7	11.7	Leo		X	
X	3/11/2007	23:23	NGC 3078	Galaxy	9:58.4	-26:56	2.9	11.0	Hya		X	
X	1/16/2015	23:54	NGC 3068	Galaxy	9:58.5	+28:53	1.8	14.3	Leo			
X	4/7/2013	23:02	NGC 3081	Galaxy	9:59.5	-22:50	3.2	12.0	Hya			
X	1/16/2015	23:49	NGC 3074	Galaxy	9:59.7	+35:24		12.7	LMi			
X	1/18/2015	4:10	NGC 3080	Galaxy	9:59.9	+13:03		13.4	Leo			

