

Herschel 400 Observing List, evening of 2015 Oct 15 at Cleveland, Ohio

Sunset 17:49, Twilight ends 19:18, Twilight begins 05:07, Sunrise 06:36, Moon rise 09:51, Moon set 19:35

Completely dark from 19:35 to 05:07. Waxing Crescent Moon. All times local (EST).

Listing All Classes visible above the perfect horizon and in twilight or moonlight before 23:59.

Cls	Primary ID	Alternate ID	Con	RA (Ap)	Dec (Ap)	Mag	Size	Distance	Rise	Transit	Set
Gal	NGC 6217	Arp 185	UMi	16h31m48.9s	+78°10'18"	11.9	2.6'x 2.1'		-	15:22	-
Gal	NGC 2655	Arp 225	Cam	08h57m35.6s	+78°09'22"	11	4.5'x 2.8'		-	7:46	-
Gal	NGC 3147	MCG 12-10-25	Dra	10h18m08.0s	+73°19'01"	11.3	4.1'x 3.5'		-	9:06	-
PNe	NGC 40	PN G120.0+09.8	Cep	00h13m59.3s	+72°36'43"	10.7	1.0'	3700 ly	-	23:03	-
Gal	NGC 2985	MCG 12-10-6	UMa	09h51m42.0s	+72°12'01"	11.2	3.8'x 3.1'		-	8:39	-
Gal	Cigar Galaxy	M 82	UMa	09h57m06.5s	+69°35'59"	9	9.3'x 4.4'	12.0 Mly	-	8:45	-
Gal	NGC 1961	Arp 184	Cam	05h43m51.6s	+69°22'44"	11.8	4.1'x 2.9'	180.0 Mly	-	4:32	-
Gal	NGC 2787	MCG 12-9-39	UMa	09h20m40.5s	+69°07'51"	11.6	3.2'x 1.8'		-	8:09	-
Gal	NGC 3077	MCG 12-10-17	UMa	10h04m31.3s	+68°39'09"	10.6	5.1'x 4.2'	12.0 Mly	-	8:52	-
Gal	NGC 2976	MCG 11-12-25	UMa	09h48m29.2s	+67°50'21"	10.8	6.0'x 3.1'	15.0 Mly	-	8:36	-
PNe	Cat's Eye Nebula	NGC 6543	Dra	17h58m31.7s	+66°38'25"	8.3	22"	4400 ly	-	16:49	-
Open	NGC 7142	Collinder 442	Cep	21h45m34.2s	+65°51'16"	10	12.0'	5500 ly	-	20:35	-
Gal	NGC 2403	MCG 11-10-7	Cam	07h38m20.9s	+65°33'36"	8.8	20.0'x 10.0'	11.0 Mly	-	6:26	-
Open	NGC 637	Collinder 17	Cas	01h44m15.4s	+64°07'07"	7.3	3.0'	7000 ly	-	0:33	-
Open	NGC 559	Collinder 13	Cas	01h30m39.5s	+63°23'17"	7.4	6.0'	4100 ly	-	0:20	-
Open	NGC 7160	Collinder 443	Cep	21h54m09.7s	+62°41'04"	6.4	5.0'	2600 ly	-	20:44	-
Open	NGC 1502	Collinder 45	Cam	04h09m16.7s	+62°22'07"	4.1	8.0'	2700 ly	-	2:58	-
Gal	NGC 4041	MCG 10-17-129	UMa	12h02m56.6s	+62°02'55"	11.6	2.6'x 2.5'		-	10:50	-
Open	NGC 654	Collinder 18	Cas	01h45m09.6s	+61°57'49"	8.2	5.0'	6700 ly	-	0:34	-
Open	Sailboat Cluster	NGC 225	Cas	00h44m38.7s	+61°51'46"	8.9	12.0'	2100 ly	-	23:34	-
Gal	NGC 4036	MCG 10-17-125	UMa	12h02m11.5s	+61°48'25"	11.6	4.2'x 1.9'		-	10:50	-
Open	NGC 381	Collinder 10	Cas	01h09m22.7s	+61°40'05"	9.3	6.0'	3700 ly	-	23:59	-
Open	NGC 1027	Collinder 30	Cas	02h43m57.4s	+61°39'34"	7.4	20.0'	2500 ly	-	1:33	-
Open	NGC 136	Collinder 4	Cas	00h32m28.5s	+61°35'56"		1.5'	13000 ly	-	23:22	-
Open	NGC 663	Collinder 20	Cas	01h47m18.3s	+61°18'47"	6.4	14.0'	6400 ly	-	0:36	-
Open	NGC 7790	OCL 276	Cas	23h59m15.8s	+61°17'57"	7.2	5.0'	9600 ly	-	22:49	-
PNe	NGC 1501	PN G144.5+06.5	Cam	04h08m23.7s	+60°57'29"	12	56"	3600 ly	-	2:57	-
Open	NGC 659	Collinder 19	Cas	01h45m32.6s	+60°45'07"	7.2	5.0'	6300 ly	-	0:35	-
Open	NGC 6939	Collinder 423	Cep	20h31m50.1s	+60°43'23"	10.1	10.0'	5900 ly	-	19:22	-
Open	NGC 7510	Collinder 454	Cep	23h11m46.7s	+60°39'36"	9.3	6.0'	6800 ly	-	22:01	-
Gal	NGC 3945	MCG 10-17-96	UMa	11h53m59.8s	+60°35'12"	11.7	5.9'x 3.5'		-	10:41	-
Gal	NGC 2742	MCG 10-13-57	UMa	09h08m45.6s	+60°24'37"	12.1	2.9'x 1.5'		-	7:57	-
Open	NGC 129	Collinder 2	Cas	00h30m56.8s	+60°18'27"	9.8	19.0'	5300 ly	-	23:20	-
Gal	NGC 6946	Arp 29	Cyg	20h35m13.8s	+60°12'58"	9.8	10.5'x 10.0'		-	19:25	-
Gal	NGC 5322	MCG 10-20-35	UMa	13h49m43.3s	+60°06'54"	11	5.6'x 3.5'		-	12:41	-
Gal	NGC 2768	MCG 10-13-65	UMa	09h12m48.6s	+59°58'02"	10.8	6.2'x 2.6'		-	8:01	-
Gal	NGC 5982	MCG 10-22-29	Dra	15h38m56.6s	+59°18'38"	12	3.1'x 2.0'		-	14:30	-
Open	NGC 436	Collinder 11	Cas	01h17m01.3s	+58°53'43"	9.3	5.0'	9800 ly	-	0:06	-
Gal	NGC 2950	MCG 10-14-32	UMa	09h43m41.1s	+58°46'28"	11.9	2.9'x 1.8'		-	8:31	-
Gal	NGC 3610	MCG 10-16-107	UMa	11h19m17.0s	+58°41'53"	11.6	2.7'x 2.6'		-	10:07	-
Open	ET Cluster	NGC 457	Cas	01h20m38.5s	+58°22'11"	5.1	20.0'	7900 ly	-	0:10	-
Open	NGC 7380	Collinder 452	Cep	22h48m01.6s	+58°13'12"	8.8	20.0'	7200 ly	-	21:38	-
Gal	NGC 3613	MCG 10-16-109	UMa	11h19m27.7s	+57°54'42"	11.7	3.5'x 1.8'		-	10:07	-
Gal	NGC 3619	MCG 10-16-115	UMa	11h20m12.5s	+57°40'14"	12.5	3.5'x 2.8'		-	10:08	-
Open	Chi Persei	NGC 884	Per	02h23m28.6s	+57°12'24"	4.4	18.0'	7600 ly	-	1:12	-
Open	h Persei	NGC 869	Per	02h20m10.2s	+57°11'57"	4.3	18.0'	6800 ly	-	1:09	-
Open	NGC 7789	OCL 269	Cas	23h58m15.2s	+56°47'57"	7.5	25.0'	7600 ly	-	22:48	-
Gal	NGC 5631	MCG 10-21-2	UMa	14h26m59.7s	+56°30'57"	12.5	2.0'		-	13:18	-
Gal	Splinter Galaxy	NGC 5907	Dra	15h16m15.7s	+56°16'34"	11.1	11.0'x 1.4'		-	14:07	-
Gal	NGC 3898	MCG 9-19-204	UMa	11h50m02.2s	+55°59'41"	11.3	3.4'x 2.0'		-	10:37	-
Gal	M 102	NGC 5866	Dra	15h06m52.8s	+55°42'28"	10.7	6.3'x 2.8'	47.0 Mly	-	13:58	-
Gal	NGC 3079	MCG 9-17-10	UMa	10h03m00.0s	+55°36'01"	11.4	7.8'x 1.3'		-	8:51	-

Gal	M 108	NGC 3556	UMa	11h12m23.2s	+55°35'10"	10.7	5.4'x 1.9'	53.0 Mly	-	10:00	-
Gal	NGC 3998	MCG 9-20-46	UMa	11h58m42.0s	+55°21'54"	11.4	2.8'x 2.2'		-	10:46	-
Gal	NGC 3982	MCG 9-20-36	UMa	11h57m14.3s	+55°02'10"	11.8	2.0'x 1.8'		-	10:45	-
Gal	NGC 5473	MCG 9-23-31	UMa	14h05m13.5s	+54°49'18"	12.4	2.0'x 1.5'		-	12:56	-
PNe	NGC 7008	PN G093.4+05.4	Cyg	21h01m01.5s	+54°36'46"	12	1.4'	2800 ly	-	19:51	-
Open	NGC 7128	Collinder 440	Cyg	21h44m31.2s	+53°47'39"	11.3	4.0'	7500 ly	-	20:34	-
Gal	NGC 5474	MCG 9-23-32	UMa	14h05m32.4s	+53°35'25"	11.5	2.8'x 2.0'		-	12:57	-
Gal	NGC 3310	Arp 217	UMa	10h39m41.9s	+53°25'05"	11.2	2.2'x 2.1'		-	9:27	-
Gal	M 109	NGC 3992	UMa	11h58m21.9s	+53°17'10"	10.5	7.4'x 4.9'	64.0 Mly	-	10:46	-
Gal	NGC 3631	Arp 27	UMa	11h21m53.0s	+53°04'50"	10.7	4.1'x 3.5'		-	10:09	-
Gal	NGC 3729	MCG 9-19-117	UMa	11h34m38.5s	+53°02'10"	11.7	2.9'x 2.0'		-	10:22	-
Open	NGC 1444	Collinder 43	Per	03h50m39.0s	+52°42'09"	6.4	4.0'	3900 ly	-	2:39	-
Gal	NGC 4102	MCG 9-20-94	UMa	12h07m08.7s	+52°37'21"	12.1	3.0'x 1.7'		-	10:55	-
Open	NGC 7296	Collinder 451	Lac	22h28m41.9s	+52°24'10"	9.7	4.0'		-	21:18	-
Gal	NGC 3953	MCG 9-20-26	UMa	11h54m35.6s	+52°14'17"	10.5	6.6'x 3.4'		-	10:42	-
Open	NGC 7086	Collinder 437	Cyg	21h31m00.9s	+51°40'35"	11.6	12.0'	4200 ly	-	20:21	-
Open	NGC 1528	Collinder 47	Per	04h16m37.0s	+51°15'00"	6.4	16.0'	2500 ly	-	3:05	-
Gal	NGC 2681	MCG 9-15-41	UMa	08h54m39.0s	+51°14'54"	11.2	3.6'		-	7:43	-
Gal	NGC 2841	MCG 9-16-5	UMa	09h23m06.0s	+50°54'16"	10	7.8'x 3.7'		-	8:11	-
Gal	NGC 4026	MCG 9-20-52	UMa	12h00m11.1s	+50°52'24"	11.7	4.7'x 0.9'		-	10:48	-
PNe	Blinking Planetary	NGC 6826	Cyg	19h45m14.0s	+50°34'18"	8.8	27"	3600 ly	-	18:35	-
Gal	NGC 4088	Arp 18	UMa	12h06m18.9s	+50°27'05"	11.3	5.8'x 2.2'		-	10:54	-
Open	NGC 1545	Collinder 49	Per	04h22m10.3s	+50°17'11"	4.6	18.0'	2300 ly	-	3:11	-
Gal	NGC 4085	MCG 9-20-86	UMa	12h06m08.0s	+50°15'53"	12.3	2.4'x 0.6'		-	10:54	-
Open	NGC 7243	Collinder 448	Lac	22h15m47.3s	+49°58'58"	6.7	29.0'	2600 ly	-	21:05	-
Open	NGC 2126	Collinder 78	Aur	06h03m46.3s	+49°51'38"	10.2	5.0'	4200 ly	-	4:52	-
Open	NGC 1513	Collinder 46	Per	04h11m09.3s	+49°33'07"	8.9	10.0'	4300 ly	-	3:00	-
Gal	NGC 5676	MCG 8-26-43	Boo	14h33m17.6s	+49°23'34"	11.9	3.7'x 1.7'		-	13:24	-
Open	NGC 7686	Collinder 456	And	23h30m54.7s	+49°13'27"	5.6	14.0'	3300 ly	-	22:20	-
Gal	NGC 5689	MCG 8-27-4	Boo	14h36m00.7s	+48°40'38"	12.7	3.6'x 0.9'		-	13:27	-
Gal	NGC 3893	MCG 8-22-7	UMa	11h49m25.6s	+48°37'16"	10.8	3.1'x 1.6'		-	10:37	-
Gal	NGC 185	MCG 8-2-10	Cas	00h39m53.0s	+48°25'33"	10.2	10.7'x 8.9'		-	23:29	-
Gal	NGC 3949	MCG 8-22-29	UMa	11h54m28.6s	+47°46'11"	11.4	2.3'x 1.4'		-	10:42	-
Gal	NGC 278	MCG 8-2-16	Cas	00h53m00.5s	+47°38'15"	11.5	2.3'x 2.3'		-	23:42	-
Glob	NGC 6229		Her	16h47m24.1s	+47°30'27"	9.4	4.5'	91000 ly	-	15:38	-
Gal	NGC 3877	MCG 8-22-2	UMa	11h46m55.3s	+47°24'23"	11.8	5.0'x 1.1'		-	10:34	-
Open	NGC 1245	Collinder 38	Per	03h15m49.8s	+47°17'33"	7.7	40.0'	9100 ly	14:17	2:05	13:56
Gal	M 106	NGC 4258	CVn	12h19m41.8s	+47°12'59"	9.1	16.6'x 6.3'	30.0 Mly	23:28	11:07	22:50
Gal	NGC 5195	Arp 85	CVn	13h30m36.9s	+47°11'14"	10.5	5.6'x 4.5'		0:42	12:22	23:58
Gal	NGC 3726	MCG 8-21-51	UMa	11h34m10.0s	+46°56'28"	10.7	5.2'x 3.5'		23:00	10:22	21:47
Gal	NGC 4346	MCG 8-23-16	CVn	12h24m11.7s	+46°54'25"	12.1	3.2'x 1.1'		23:52	11:12	22:35
Open	NGC 7209	Collinder 444	Lac	22h05m46.5s	+46°33'58"	7.8	14.0'	3800 ly	9:45	20:55	8:02
Open	NGC 7062	Collinder 434	Cyg	21h24m02.8s	+46°27'11"	8.3	5.0'	4800 ly	9:07	20:14	7:16
Gal	NGC 4800	MCG 8-24-4	CVn	12h55m18.6s	+46°26'50"	12.3	1.7'x 1.2'		0:40	11:43	22:49
Gal	NGC 3198	MCG 8-19-20	UMa	10h20m50.8s	+45°28'03"	10.9	7.6'x 2.3'		22:31	9:09	19:50
Gal	NGC 4051	MCG 8-22-59	UMa	12h03m55.6s	+44°26'37"	10.8	5.1'x 4.2'		0:33	10:51	21:14
Neb	North American Nebula	NGC 7000	Cyg	20h59m04.8s	+44°26'34"	4	120.0'		9:27	19:49	6:07
Open	NGC 6866	Collinder 412	Cyg	20h04m26.4s	+44°12'39"	9.1	14.0'	4700 ly	8:36	18:54	5:09
Gal	NGC 3938	MCG 7-25-1	UMa	11h53m36.1s	+44°02'00"	10.9	4.4'x 4.3'		0:29	10:41	20:57
Gal	NGC 4449	MCG 7-26-9	CVn	12h28m54.6s	+44°00'22"	9.5	5.2'x 3.3'	13.0 Mly	1:05	11:16	21:31
Open	NGC 1664	Collinder 56	Aur	04h52m15.1s	+43°41'50"	7.2	9.0'	3900 ly	17:34	3:41	13:51
Gal	NGC 3675	MCG 7-24-4	UMa	11h26m57.6s	+43°29'55"	11	5.9'x 3.2'		0:11	10:14	20:22
Gal	NGC 4111	MCG 7-25-26	CVn	12h07m48.9s	+42°58'40"	11.7	2.0'x 0.6'		0:59	10:55	20:56
PNe	Blue Snowball	NGC 7662	And	23h26m41.6s	+42°37'31"	8.6	17"	4600 ly	12:24	22:16	8:08
Open	NGC 7044	OCL 198	Cyg	21h13m45.7s	+42°34'01"	12	6.0'	10000 ly	10:08	20:04	5:55
Gal	NGC 4143	MCG 7-25-36	CVn	12h10m21.6s	+42°26'49"	11.8	2.8'x 1.7'		1:08	10:58	20:51
Gal	NGC 891	MCG 7-5-46	And	02h23m35.4s	+42°25'00"	10.9	11.7'x 2.3'		15:23	1:13	11:02
Gal	M 110	NGC 205	And	00h41m16.3s	+41°46'27"	8.9	17.8'x 9.8'	2.6 Mly	13:49	23:31	9:12

Gal	NGC 4485	Arp 269	CVn	12h31m15.0s	+41°36'49"	12.3	2.1'x 1.5'		1:39	11:19	21:02
Gal	Cocoon Galaxy	NGC 4490	CVn	12h31m20.2s	+41°33'27"	9.8	6.3'x 2.0'		1:40	11:19	21:02
Gal	NGC 3184	MCG 7-21-37	UMa	10h19m11.8s	+41°20'34"	10.4	7.2'x 7.1'		23:30	9:07	18:48
Gal	NGC 4618	Arp 23	CVn	12h42m15.7s	+41°03'57"	11.3	4.0'x 2.8'		1:56	11:30	21:07
Open	NGC 2281	Collinder 116	Aur	06h49m23.7s	+41°03'20"	7.2	25.0'	1800 ly	20:04	5:38	15:15
Open	NGC 6910	Collinder 420	Cyg	20h23m46.4s	+40°50'12"	7.3	10.0'	3700 ly	9:38	19:14	4:45
Gal	NGC 2782	Arp 215	Lyn	09h15m04.4s	+40°02'38"	12.3	3.4'x 2.4'		22:40	8:03	17:30
Open	NGC 1857	Collinder 61	Aur	05h21m12.5s	+39°21'17"	8.4	10.0'	6200 ly	18:53	4:10	13:30
Gal	NGC 4151	MCG 7-25-44	CVn	12h11m18.3s	+39°19'07"	11.3	3.7'x 2.9'		1:42	10:59	20:19
Gal	NGC 1023	Arp 135	Per	02h41m25.5s	+39°07'46"	9.6	7.6'x 2.8'		16:16	1:30	10:45
Glob	Intergalactic Wanderer	NGC 2419	Lyn	07h39m11.7s	+38°50'28"	10.3	4.6'	200000 ly	21:15	6:27	15:43
Gal	NGC 3665	MCG 7-24-3	UMa	11h25m32.9s	+38°40'32"	11.8	3.8'x 2.9'		1:02	10:13	19:28
Open	NGC 752	Collinder 23	And	01h58m39.5s	+37°51'41"	6.6	75.0'	1500 ly	15:44	0:48	9:51
Open	NGC 1342	Collinder 40	Per	03h32m41.0s	+37°25'39"	7.2	15.0'	2200 ly	17:21	2:21	11:22
Gal	NGC 3294	MCG 6-23-21	LMi	10h37m08.9s	+37°14'28"	12.1	3.2'x 1.7'		0:26	9:25	18:27
Gal	NGC 5005	MCG 6-29-52	CVn	13h11m37.9s	+36°58'36"	10.5	5.4'x 2.0'		3:02	12:03	20:59
Gal	NGC 3941	MCG 6-26-51	UMa	11h53m42.4s	+36°53'56"	11.3	3.5'x 2.3'		1:45	10:41	19:41
Gal	NGC 6207	MCG 6-37-7	Her	16h43m36.1s	+36°48'36"	11.9	2.9'x 1.3'		6:35	15:34	0:29
Gal	NGC 3432	Arp 206	LMi	10h53m22.3s	+36°32'02"	11.6	6.8'x 1.6'		0:48	9:41	18:38
Gal	NGC 5033	MCG 6-29-62	CVn	13h14m09.0s	+36°30'45"	10.7	9.5'x 4.3'		3:09	12:05	20:58
Gal	NGC 3813	MCG 6-26-19	UMa	11h42m06.5s	+36°27'33"	12.3	2.0'x 1.0'		1:37	10:30	19:26
Gal	NGC 5557	MCG 6-31-93	Boo	14h19m03.3s	+36°25'32"	11.9	2.3'x 1.3'	150.0 Mly	4:14	13:10	22:02
Gal	NGC 4214	MCG 6-27-42	CVn	12h16m24.6s	+36°14'28"	10.2	7.8'x 6.3'	13.0 Mly	2:13	11:04	19:58
Gal	Mirach's Ghost	NGC 404	And	01h10m22.0s	+35°48'12"	11.2	4.7'	11.0 Mly	15:12	0:00	8:47
Gal	NGC 5273	MCG 6-30-72	CVn	13h42m48.4s	+35°34'41"	12.5	2.5'x 1.8'		3:44	12:34	21:20
Open	NGC 1907	Collinder 66	Aur	05h29m09.2s	+35°20'01"	10.2	7.0'	5100 ly	19:34	4:18	13:06
Gal	NGC 7331	MCG 6-49-45	Peg	22h37m49.1s	+34°30'11"	10.2	9.1'x 3.4'		12:49	21:27	6:06
Open	NGC 1931	Collinder 68	Aur	05h32m28.6s	+34°15'09"	10.1	5.0'	10000 ly	19:44	4:21	13:01
Gal	NGC 2683	MCG 6-20-11	Lyn	08h53m39.0s	+33°21'29"	10	8.7'x 2.5'		23:11	7:42	16:16
Gal	NGC 4203	MCG 6-27-40	Com	12h15m50.7s	+33°06'42"	11.7	3.4'x 1.7'		2:34	11:03	19:36
Gal	NGC 3395	Arp 270	LMi	10h50m41.2s	+32°53'54"	12.4	1.6'x 0.9'		1:11	9:38	18:10
Gal	Whale Galaxy	NGC 4631	CVn	12h42m51.9s	+32°27'29"	9.5	13.2'x 2.4'		3:05	11:30	19:59
Gal	NGC 4656	MCG 5-30-66	CVn	12h44m41.7s	+32°05'08"	9.7	8.5'x 1.1'		3:10	11:32	19:58
Gal	NGC 7217	MCG 5-52-1	Peg	22h08m36.1s	+31°26'31"	11.1	3.9'x 3.3'		12:40	20:58	5:17
Gal	NGC 4414	MCG 5-29-85	Com	12h27m12.3s	+31°08'12"	11	2.8'x 1.6'		2:58	11:15	19:35
Gal	Pinwheel Galaxy	M 33	Tri	01h34m46.2s	+30°44'28"	6.4	61.7'x 36.3'	2.9 Mly	16:10	0:24	8:38
Gal	NGC 4150	MCG 5-29-29	Com	12h11m19.8s	+30°18'53"	12.5	2.1'x 1.4'		2:47	10:59	19:15
Gal	NGC 4314	MCG 5-29-75	Com	12h23m17.8s	+29°48'31"	11.4	3.8'x 3.6'		3:02	11:11	19:24
Gal	NGC 4274	MCG 5-29-60	Com	12h20m36.2s	+29°31'40"	11.3	5.0'x 2.1'		3:01	11:08	19:19
Gal	NGC 4245	MCG 5-29-49	Com	12h18m22.6s	+29°31'18"	12.3	2.7'x 1.8'		2:58	11:06	19:17
Open	NGC 6834	Collinder 407	Cyg	19h52m50.2s	+29°27'23"	9.7	5.0'	6700 ly	10:32	18:43	2:50
PNe	Gemini Nebula	NGC 2371	Gem	07h26m34.2s	+29°27'19"	11.2	1.2'	4400 ly	22:08	6:15	14:26
Gal	NGC 4278	MCG 5-29-62	Com	12h20m52.7s	+29°11'43"	11	3.3'x 3.1'		3:03	11:08	19:18
Gal	NGC 3486	MCG 5-26-32	LMi	11h01m14.0s	+28°53'22"	11.1	6.0'x 4.3'		1:45	9:49	17:57
Gal	NGC 4448	MCG 5-29-89	Com	12h29m00.5s	+28°32'07"	12	1.8'x 1.1'		3:14	11:16	19:22
Glob	NGC 5466		Boo	14h06m07.8s	+28°27'49"	9.2	9.0'	52000 ly	4:52	12:57	20:59
Open	NGC 6940	Collinder 424	Vul	20h35m06.2s	+28°20'40"	7.2	25.0'	2500 ly	11:20	19:25	3:26
Gal	NGC 4251	MCG 5-29-50	Com	12h18m54.2s	+28°05'20"	11.6	2.8'x 1.5'		3:07	11:06	19:10
Gal	NGC 3504	MCG 5-26-39	LMi	11h04m00.9s	+27°53'13"	11.6	2.6'x 2.3'		1:53	9:52	17:54
Gal	NGC 4559	MCG 5-30-30	Com	12h36m42.7s	+27°52'29"	10.3	10.0'x 4.3'		3:26	11:24	19:26
Open	NGC 2266	Collinder 113	Gem	06h44m18.3s	+26°57'02"	9.5	5.0'	11000 ly	21:39	5:33	13:30
Gal	NGC 3900	MCG 5-28-34	Leo	11h49m56.8s	+26°56'06"	12.3	2.7'x 1.3'		2:44	10:37	18:35
Open	NGC 6882		Vul	20h12m26.9s	+26°51'57"		5.0'		11:05	19:02	2:56
Open	NGC 6885	Collinder 417	Vul	20h12m41.0s	+26°31'57"	5.7	20.0'	1900 ly	11:07	19:03	2:54
Gal	NGC 3912	MCG 5-28-37	Leo	11h50m51.8s	+26°23'32"	13.2	1.5'x 0.7'		2:48	10:38	18:33
Gal	NGC 4565	MCG 4-30-6	Com	12h37m06.0s	+25°54'09"	10.1	14.5'x 2.3'		3:36	11:24	19:17
Gal	NGC 4494	MCG 4-30-2	Com	12h32m09.5s	+25°41'22"	10.7	4.4'x 4.2'		3:32	11:19	19:11
Gal	NGC 4725	MCG 4-30-22	Com	12h51m11.2s	+25°25'01"	9.9	9.5'x 6.6'		3:53	11:38	19:28

Open	NGC 2158	Collinder 81	Gem	06h08m23.4s	+24°05'28"	12.1	5.0'	17000 ly	21:17	4:57	12:40
Open	NGC 6823	Collinder 405	Vul	19h43m49.4s	+23°20'40"	7.1	6.0'	10000 ly	10:54	18:34	2:10
Open	NGC 2129	Collinder 77	Gem	06h02m05.1s	+23°19'09"	7	5.0'	4900 ly	21:15	4:50	12:30
Open	NGC 6830	Collinder 406	Vul	19h51m39.7s	+23°08'50"	8.9	5.0'	5300 ly	11:03	18:42	2:17
Open	NGC 2420	Collinder 154	Gem	07h39m18.9s	+21°32'04"	10	5.0'	10000 ly	23:00	6:27	13:59
PNe	Eskimo Nebula	NGC 2392	Gem	07h30m06.7s	+20°52'34"	8.6	47"	3400 ly	22:53	6:18	13:47
Open	NGC 6802	Collinder 400	Vul	19h31m16.3s	+20°18'06"	11.7	5.0'	3700 ly	10:55	18:21	1:44
PNe	NGC 6905	He 2-466	Del	20h23m05.5s	+20°09'42"	12	44"	4700 ly	11:47	19:13	2:35
Open	NGC 1647	Collinder 54	Tau	04h46m51.4s	+19°08'28"	6.2	40.0'	1800 ly	20:18	3:35	10:53
Gal	NGC 772	Arp 78	Ari	02h00m13.6s	+19°05'04"	10.6	5.9'x 3.2'		17:32	0:49	8:06
Glob	NGC 4147		Com	12h10m52.7s	+18°27'20"	10.4	4.4'	85000 ly	3:44	10:58	18:17
Gal	NGC 4293	MCG 3-32-6	Com	12h21m59.1s	+18°17'48"	11.1	6.0'x 4.1'		3:56	11:09	18:27
Gal	NGC 4394	MCG 3-32-35	Com	12h26m41.8s	+18°07'42"	11.6	3.6'x 3.5'		4:01	11:14	18:31
Open	NGC 2304	Collinder 120	Gem	06h56m06.3s	+17°57'55"	10	3.0'	13000 ly	22:32	5:44	13:01
Gal	NGC 4450	MCG 3-32-48	Com	12h29m15.9s	+16°59'59"	10.8	5.6'x 4.4'		4:08	11:17	18:29
Open	NGC 1817	Collinder 60	Tau	05h13m10.5s	+16°42'23"	7.8	16.0'	6400 ly	20:54	4:02	11:09
Gal	NGC 4350	MCG 3-32-23	Com	12h24m44.1s	+16°36'25"	11.9	2.8'x 1.1'		4:05	11:12	18:23
Glob	NGC 7006		Del	21h02m13.8s	+16°15'22"	10.6	3.6'	160000 ly	12:47	19:52	2:58
Gal	NGC 7814	MCG 3-1-20	Peg	00h04m05.0s	+16°14'08"	11.6	4.9'x 2.1'		15:48	22:53	5:59
Gal	NGC 7448	Arp 13	Peg	23h00m51.7s	+16°04'07"	12.1	2.3'x 1.0'		14:46	21:50	4:55
Gal	NGC 4419	MCG 3-32-38	Com	12h27m43.0s	+14°57'42"	12	3.5'x 1.2'		4:15	11:15	18:19
Gal	M 91	NGC 4548	Com	12h36m12.6s	+14°24'42"	10.9	5.4'x 4.6'	70.0 Mly	4:25	11:24	18:26
Gal	NGC 4866	MCG 2-33-45	Vir	13h00m12.7s	+14°05'18"	12	6.0'x 1.0'		4:51	11:47	18:48
Open	37 Cluster	NGC 2169	Ori	06h09m18.2s	+13°57'36"	7	5.0'	3400 ly	22:01	4:58	11:54
Gal	NGC 4459	MCG 2-32-83	Com	12h29m46.4s	+13°53'36"	11.4	4.6'x 3.7'		4:21	11:17	18:17
Open	NGC 2355	Collinder 133	Gem	07h17m52.4s	+13°43'10"	9.7	7.0'	7200 ly	23:11	6:06	13:05
Gal	NGC 4689	MCG 2-33-22	Com	12h48m31.7s	+13°40'43"	11.6	3.9'x 3.1'		4:41	11:36	18:35
Open	NGC 2395	Collinder 144	Gem	07h28m05.2s	+13°34'27"	9.4	14.0'	1700 ly	23:21	6:16	13:15
Gal	NGC 4477	MCG 2-32-97	Com	12h30m48.6s	+13°33'05"	11.3	3.9'x 3.5'		4:23	11:18	18:17
Gal	NGC 4473	MCG 2-32-93	Com	12h30m35.3s	+13°20'40"	11.1	4.1'x 2.4'		4:24	11:18	18:16
Gal	NGC 4216	MCG 2-31-72	Vir	12h16m41.1s	+13°03'51"	11	7.9'x 1.9'		4:11	11:04	18:01
Gal	NGC 4654		Vir	12h44m42.8s	+13°02'33"	11.5	4.0'x 2.5'		4:39	11:32	18:29
Gal	NGC 4435	Arp 120	Vir	12h28m27.0s	+12°59'38"	11.5	3.0'x 2.0'		4:23	11:16	18:12
Gal	NGC 4438	Arp 120	Vir	12h28m32.4s	+12°55'26"	10.9	8.9'x 5.1'		4:24	11:16	18:12
Open	NGC 2194	Collinder 87	Ori	06h14m38.7s	+12°47'59"	10	9.0'	12000 ly	22:11	5:03	11:55
Gal	NGC 7479	MCG 2-58-60	Peg	23h05m45.2s	+12°24'41"	11.7	3.7'x 2.8'		15:05	21:55	4:46
Gal	NGC 4478	MCG 2-32-99	Vir	12h31m04.0s	+12°14'34"	12.2	1.7'x 1.4'		4:29	11:18	18:12
Gal	NGC 4550	MCG 2-32-147	Vir	12h36m17.0s	+12°08'11"	12.5	3.2'x 0.7'		4:34	11:24	18:17
Gal	NGC 4371	MCG 2-32-33	Vir	12h25m42.1s	+11°37'08"	11.8	3.9'x 1.9'		4:26	11:13	18:04
Gal	NGC 4754	MCG 2-33-30	Vir	12h53m03.7s	+11°13'51"	11.5	4.4'x 2.3'		4:54	11:40	18:30
Gal	NGC 4762	MCG 2-33-33	Vir	12h53m42.0s	+11°08'51"	11.1	8.5'x 3.2'		4:55	11:41	18:30
Gal	NGC 4660	MCG 2-33-6	Vir	12h45m18.3s	+11°06'24"	12.1	2.1'x 1.6'		4:47	11:33	18:22
Gal	NGC 4429	MCG 2-32-61	Vir	12h28m13.2s	+11°01'21"	11	5.6'x 2.5'		4:30	11:16	18:05
Gal	NGC 4596	MCG 2-32-170	Vir	12h40m42.6s	+10°05'29"	11.4	4.0'x 3.3'		4:46	11:28	18:14
Open	NGC 2264	Collinder 112	Mon	06h41m50.4s	+09°52'41"	4.1	39.0'	2200 ly	22:49	5:30	12:15
Gal	NGC 4442	MCG 2-32-68	Vir	12h28m50.6s	+09°43'07"	11.4	4.8'x 2.1'		4:36	11:16	18:00
Gal	NGC 524	MCG 1-4-53	Psc	01h25m38.9s	+09°37'18"	11.4	3.3'		17:35	0:15	6:55
PNe	NGC 2022	PN G196.6-10.9	Ori	05h42m58.7s	+09°05'31"	11.7	28"	8100 ly	21:54	4:31	11:09
Gal	NGC 5248	MCG 2-35-15	Boo	13h38m18.1s	+08°48'30"	10.9	4.8'x 3.0'		5:49	12:29	19:06
Gal	NGC 4698	MCG 2-33-24	Vir	12h49m09.5s	+08°24'14"	11.6	3.8'x 2.0'		5:01	11:36	18:16
Open	NGC 2251	Collinder 101	Mon	06h35m29.9s	+08°21'08"	8.8	10.0'	4300 ly	22:49	5:24	11:59
Gal	Lost Galaxy	NGC 4535	Vir	12h35m07.0s	+08°06'48"	10.5	7.2'x 6.3'		4:48	11:22	18:01
Gal	NGC 4526	MCG 1-32-100	Vir	12h34m49.8s	+07°36'53"	10.6	7.9'x 2.9'		4:50	11:22	17:59
Glob	NGC 6934		Del	20h34m57.7s	+07°27'52"	8.9	7.1'	62000 ly	12:53	19:25	1:57
Gal	NGC 4365	MCG 1-32-48	Vir	12h25m15.2s	+07°13'57"	10.5	6.2'x 4.6'		4:41	11:13	17:48
Gal	NGC 4570	MCG 1-32-114	Vir	12h37m40.3s	+07°09'42"	11.7	3.8'x 0.9'		4:54	11:25	18:00
PNe	NGC 6781	PN G041.8-02.9	Aql	19h19m14.2s	+06°34'24"	11.8	1.9'	2500 ly	11:37	18:09	0:38
Open	NGC 6633	Collinder 380	Oph	18h28m00.7s	+06°31'26"	5.6	20.0'	1200 ly	10:46	17:18	23:47

Open	NGC 2186	Collinder 85	Ori	06h12m58.0s	+05°27'10"	9.2	5.0'	4700 ly	22:37	5:01	11:26
Gal	NGC 488	MCG 1-4-33	Psc	01h22m37.3s	+05°20'24"	11.1	5.0'x 3.6'		17:48	0:12	6:36
Gal	NGC 5363	MCG 1-36-2	Vir	13h56m53.4s	+05°10'53"	11.1	4.4'x 2.9'		6:20	12:48	19:12
Gal	NGC 5364	MCG 1-36-3	Vir	13h56m58.2s	+04°56'30"	11.1	4.9'x 2.6'		6:21	12:48	19:11
Open	NGC 2244	Collinder 99	Mon	06h32m45.6s	+04°55'43"	5.2	29.0'	4700 ly	22:58	5:21	11:44
Open	NGC 6756	OCL 99	Aql	19h09m28.6s	+04°44'09"	10.6	4.0'	4900 ly	11:34	18:00	0:22
Open	NGC 6755	Collinder 397	Aql	19h08m35.8s	+04°17'50"	8.6	14.0'	4600 ly	11:34	17:59	0:19
Gal	NGC 5566	Arp 286	Vir	14h21m06.4s	+03°51'56"	11.4	5.8'x 2.0'		6:49	13:12	19:31
Gal	NGC 5576	MCG 1-37-7	Vir	14h21m50.2s	+03°12'11"	11.8	2.8'x 1.9'		6:52	13:13	19:29
Glob	NGC 6426		Oph	17h45m40.7s	+03°10'09"	10.9	4.2'	68000 ly	10:16	16:36	22:53
Gal	NGC 4624	MCG 1-33-5	Vir	12h45m52.9s	+02°58'20"	11.5	4.3'		5:17	11:33	17:53
Gal	NGC 4636	MCG 1-32-137	Vir	12h43m37.0s	+02°36'15"	10.4	7.2'x 5.6'		5:16	11:31	17:49
Gal	NGC 4900	MCG 1-33-35	Vir	13h01m26.2s	+02°25'07"	11.9	2.1'x 2.0'		5:35	11:49	18:06
Gal	NGC 4643	MCG 0-33-5	Vir	12h44m07.3s	+01°53'38"	11.6	3.2'x 2.6'		5:19	11:31	17:47
Gal	NGC 5746	MCG 0-38-5	Vir	14h45m42.8s	+01°53'33"	11.4	6.8'x 1.1'		7:21	13:37	19:49
Gal	NGC 5846	MCG 0-38-25	Vir	15h07m16.1s	+01°32'58"	11.1	3.7'x 3.5'		7:43	13:58	20:09
Gal	NGC 4845	MCG 0-33-25	Vir	12h58m48.3s	+01°29'37"	12.1	5.4'x 1.2'		5:35	11:46	18:01
Gal	NGC 1055	MCG 0-7-81	Cet	02h42m35.0s	+00°30'33"	11.4	6.2'x 2.9'		19:24	1:32	7:39
Gal	NGC 936	MCG 0-7-17	Cet	02h28m27.0s	-01°05'05"	11.2	4.5'x 3.4'		19:16	1:17	7:19
Neb	Flame Nebula	NGC 2024	Ori	05h42m30.4s	-01°50'36"		20.0'		22:32	4:31	10:30
Gal	NGC 6118	MCG 0-42-2	Ser	16h22m36.8s	-02°18'58"	12.4	4.5'x 1.8'		9:12	15:13	21:10
Neb	NGC 1788	vdB 33	Ori	05h07m42.1s	-03°18'48"		10.0'x 6.0'		22:03	3:56	9:50
Open	NGC 2232	Collinder 93	Mon	06h28m02.1s	-04°46'08"	4.2	53.0'	1200 ly	23:28	5:16	11:05
Gal	NGC 779	MCG -1-6-16	Cet	02h00m31.1s	-05°53'15"	11.9	1.5'x 0.6'		19:05	0:50	6:34
Open	NGC 1980	Collinder 72	Ori	05h36m11.0s	-05°54'20"	2.5	20.0'	1600 ly	22:40	4:25	10:09
Glob	NGC 5634		Vir	14h30m25.6s	-06°02'34"	9.5	5.5'	75000 ly	7:34	13:21	19:05
Neb	NGC 2185	vdB 73	Mon	06h11m46.7s	-06°14'15"		4.5'x 2.0'		23:17	5:00	10:43
Gal	NGC 1022	MCG -1-7-25	Cet	02h39m20.8s	-06°36'33"	12.1	2.6'x 1.9'		19:46	1:28	7:10
Neb	NGC 1999	vdB 46	Ori	05h37m10.7s	-06°42'28"		2.0'		22:44	4:26	10:07
Gal	NGC 584	MCG -1-4-60	Cet	01h32m09.5s	-06°47'11"	11.3	3.7'x 2.4'		18:40	0:21	6:03
Gal	NGC 596	MCG -1-5-5	Cet	01h33m40.6s	-06°57'00"	11.8	2.5'x 1.8'		18:42	0:23	6:03
Gal	NGC 615	MCG -1-5-8	Cet	01h35m54.3s	-07°15'32"	12.4	3.0'x 1.1'		18:45	0:25	6:05
Open	NGC 2215	Collinder 90	Mon	06h21m35.2s	-07°17'28"	8.6	7.0'	4200 ly	23:30	5:10	10:49
Gal	NGC 1084	MCG -1-8-7	Eri	02h46m47.7s	-07°30'44"	11.2	3.1'x 2.0'		19:57	1:36	7:14
Open	NGC 6664	Collinder 385	Sct	18h37m28.0s	-07°47'43"	8.5	12.0'	3800 ly	11:46	17:28	23:05
Gal	NGC 1052	MCG -1-7-34	Cet	02h41m52.4s	-08°11'15"	11.4	2.9'x 2.0'		19:55	1:31	7:07
Gal	NGC 157	MCG -2-2-56	Cet	00h35m35.7s	-08°18'29"	11	4.1'x 2.3'		17:49	23:25	5:01
Gal	NGC 7606	MCG -2-59-12	Aqr	23h19m54.8s	-08°23'48"	11.7	3.8'x 2.3'		16:34	22:09	3:45
Glob	NGC 6712		Sct	18h53m55.3s	-08°40'52"	8.1	9.8'	23000 ly	12:10	17:44	23:19
Glob	NGC 6517		Oph	18h02m42.3s	-08°57'13"	10.1	4.0'	160000 ly	11:16	16:53	22:27
PNe	Saturn Nebula	NGC 7009	Aqr	21h05m02.6s	-11°17'50"	8.3	28"	3200 ly	14:30	19:55	1:20
PNe	NGC 246	PN G118.8-74.7	Cet	00h47m52.1s	-11°47'05"	10.4	4.0'	1600 ly	18:14	23:37	5:00
Gal	NGC 7727	Arp 222	Aqr	23h40m43.6s	-12°12'09"	11.6	3.7'x 2.9'		17:09	22:30	3:52
PNe	Cleopatra's Eye	NGC 1535	Eri	04h15m00.9s	-12°42'00"	9.4	20"	5800 ly	21:44	3:04	8:23
Gal	NGC 7723	MCG -2-60-5	Aqr	23h39m46.8s	-12°52'21"	11.9	3.3'x 2.3'		17:10	22:29	3:48
Glob	M 107	NGC 6171	Oph	16h33m24.1s	-13°04'56"	7.8	13.0'	26000 ly	10:02	15:24	20:42
Gal	NGC 720	MCG -2-5-68	Cet	01h53m47.7s	-13°39'38"	11.1	4.7'x 2.5'		19:27	0:43	5:59
PNe	Little Gem	NGC 6818	Sgr	19h44m51.0s	-14°06'42"	10	22"	7300 ly	13:21	18:35	23:49
Open	NGC 6645	Collinder 383	Sgr	18h33m31.4s	-16°52'04"	8.5	14.0'		12:20	17:24	22:28
Glob	NGC 6356		Oph	17h24m29.4s	-17°49'26"	8.2	10.0'	36000 ly	11:11	16:15	21:15
Gal	NGC 1407	MCG -3-10-30	Eri	03h40m55.6s	-18°31'46"	10.7	5.5'x 5.0'		21:33	2:30	7:27
Glob	NGC 6342		Oph	17h22m05.1s	-19°35'54"	9.5	4.4'	130000 ly	11:16	16:13	21:05
PNe	NGC 6445	He 2-290	Sgr	17h50m10.6s	-20°00'38"	13	35"	4200 ly	11:46	16:41	21:32
Glob	NGC 6440		Sgr	17h49m48.7s	-20°21'41"	9.3	4.4'	13000 ly	11:47	16:40	21:30
Gal	NGC 247	MCG -4-3-5	Cet	00h47m56.6s	-20°40'25"	9.7	20.0'x 5.0'	8.1 Mly	18:49	23:37	4:26
Glob	NGC 5897		Lib	15h18m17.5s	-21°03'50"	8.4	11.0'	46000 ly	9:19	14:09	18:56
Gal	NGC 908	MCG -4-6-35	Cet	02h23m49.4s	-21°09'43"	10.8	6.2'x 2.8'		20:27	1:13	5:59
Open	NGC 6568	Collinder 369	Sgr	18h13m40.3s	-21°35'50"	8.6	12.0'	2500 ly	12:20	17:04	21:48

Open	NGC 6583	Collinder 370	Sgr	18h16m45.5s	-22°07'40"	10	5.0'		12:25	17:07	21:49
Glob	NGC 6235		Oph	16h54m20.9s	-22°11'56"	8.9	5.0'	52000 ly	10:59	15:45	20:27
Glob	NGC 6287		Oph	17h06m05.2s	-22°43'34"	9.3	4.8'	33000 ly	11:13	15:57	20:36
Open	M 20	NGC 6514	Sgr	18h03m38.8s	-22°58'05"	5.2	28.0'	2700 ly	12:16	16:54	21:32
PNe	NGC 6629	He 2-399	Sgr	18h26m39.4s	-23°11'26"	10.5	16"	6800 ly	12:39	17:17	21:54
Glob	NGC 6642		Sgr	18h32m51.1s	-23°27'37"	8.9	5.8'		12:47	17:23	21:59
PNe	Little Ghost Nebula	NGC 6369	Oph	17h30m17.4s	-23°46'06"	11	30"	2800 ly	11:42	16:21	20:56
Glob	NGC 6401		Oph	17h39m34.1s	-23°54'56"	7.4	4.8'		11:52	16:30	21:04
Glob	NGC 6284		Oph	17h05m26.1s	-24°47'00"	8.9	6.2'	55000 ly	11:22	15:56	20:26
Glob	NGC 6544		Sgr	18h08m17.7s	-24°59'35"	7.5	9.2'	16000 ly	12:29	16:59	21:28
Gal	Sculptor Galaxy	NGC 253	Scl	00h48m20.6s	-25°12'08"	7.9	28.2'x 5.5'	13.0 Mly	19:09	23:38	4:06
Glob	NGC 6638		Sgr	18h31m54.0s	-25°28'57"	9.2	7.3'	49000 ly	12:55	17:22	21:49
Glob	NGC 6553		Sgr	18h10m15.1s	-25°54'09"	8.3	9.2'	87000 ly	12:35	17:01	21:26
Glob	NGC 6144		Sco	16h28m11.0s	-26°03'12"	9	7.4'	33000 ly	10:50	15:19	19:43
Glob	NGC 6355		Oph	17h24m56.0s	-26°21'52"	8.6	4.2'		11:48	16:15	20:38
Glob	NGC 288		Scl	00h53m32.2s	-26°29'50"	8.1	13.0'	39000 ly	19:20	23:43	4:05
Glob	NGC 6293		Oph	17h11m08.0s	-26°35'53"	8.3	8.2'	39000 ly	11:36	16:02	20:24
Glob	NGC 5694		Hya	14h40m30.1s	-26°36'10"	10.2	4.3'	100000 ly	9:06	13:31	17:53
Open	NGC 6540	Collinder 364	Sgr	18h07m19.9s	-27°47'22"	14.6	48"		12:42	16:58	21:14
Open	NGC 6520	Collinder 361	Sgr	18h04m23.0s	-27°53'05"	7.6	5.0'	5100 ly	12:39	16:55	21:10
Glob	NGC 6316		Oph	17h17m35.8s	-28°09'15"	8.1	5.4'	100000 ly	11:50	16:08	20:22
Gal	NGC 613	MCG -5-4-44	Scl	01h35m03.5s	-29°20'11"	10.7	5.5'x 4.4'		20:16	0:24	4:32
Glob	NGC 6304		Oph	17h15m31.3s	-29°28'36"	8.3	8.0'	20000 ly	11:55	16:06	20:14
Glob	NGC 6522		Sgr	18h04m35.0s	-30°01'54"	9.9	9.4'	39000 ly	12:50	16:55	21:00
Glob	NGC 6528		Sgr	18h05m49.0s	-30°03'10"	9.6	5.0'	140000 ly	12:52	16:56	21:01
Open	Tom Thumb Cluster	NGC 6451	Sco	17h51m41.1s	-30°12'41"	8.2	7.0'	6800 ly	12:38	16:42	20:46
Glob	NGC 6624		Sgr	18h24m40.2s	-30°20'51"	7.6	8.8'	42000 ly	13:12	17:15	21:18
Glob	NGC 6569		Sgr	18h14m38.9s	-31°49'11"	8.4	6.4'	96000 ly	13:10	17:05	21:00