

# ASSA Deepsky 100 Observing List

## Evening of 2016 Jun 4 at VS Star Party - Gansvlei

Sunset 17:31, Twilight ends 18:48, Twilight begins 05:37, Sunrise 06:55, Moon rise 06:55, Moon set 17:14  
 Completely dark from 18:48 to 05:37. New Moon. All times local (GMT+2).

Listing All Classes visible above the perfect horizon and in complete darkness after 18:27 and before 05:57.

Cls	Primary ID	Alternate ID	Con	Mag	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty
Neb	NGC 1977		Ori	7.0	20.0'	05h35m18.0s	-04°51'00"		18:38	18:48 ■	18:57	11	116	16	not visible
Neb	NGC 1976	M 42	Ori	4.0	40.0'x 20.0'	05h35m18.0s	-05°23'00"		18:40	18:49 ■	18:55	11	116	16	detectable
Glob	NGC 1904	M 79	Lep	7.7	9.6'	05h24m11.0s	-24°31'30"	49000 ly	18:40	18:52 ■	19:14	19	155	16	detectable
Glob	NGC 1851		Col	7.1	12.0'	05h14m06.0s	-40°02'48"	55000 ly	18:39	18:55 ■	19:37	19	173	18	easy
Open	NGC 2287	M 41	CMa	5.0	39.0'	06h46m01.0s	-20°45'24"	2300 ly	18:39	18:58 ■	20:11	19	154	27	easy
Open	NGC 2362	Collinder 136	CMa	3.8	5.0'	07h18m41.0s	-24°57'18"	4500 ly	18:30	18:59 ■	19:13	19	154	27	obvious
Open	NGC 2447	M 93	Pup	6.5	10.0'	07h44m30.0s	-23°51'24"	3400 ly	18:35	18:59 ■	19:35	19	153	26	obvious
Open	NGC 2437	M 46	Pup	6.6	20.0'	07h41m46.0s	-14°48'36"	4500 ly	18:39	18:59 ■	19:17	12	135	26	easy
Open	NGC 2422	M 47	Pup	4.3	25.0'	07h36m35.0s	-14°29'00"	1600 ly	18:35	18:59 ■	19:11	12	135	26	obvious
Gal	Large Magellanic Clo	ESO 56 115	Dor	0.8	10.8°x 9.2°	05h23m34.6s	-69°45'22"	200000 ly	18:37	19:00 ■	05:48	24	212	20	obvious
Neb	NGC 2070	Tarantula Nebula	Dor	8.3	5.0'	05h38m36.0s	-69°06'00"		18:33	19:00 ■	05:52	24	212	20	obvious
Open	NGC 2477	Collinder 165	Pup	5.7	15.0'	07h52m10.0s	-38°31'48"	4000 ly	18:35	19:00 ■	20:05	19	171	28	obvious
Open	NGC 2451	Collinder 161	Pup	3.7	45.0'	07h45m23.0s	-37°57'21"	720 ly	18:35	19:00 ■	19:57	19	171	28	obvious
Open	NGC 2548	M 48	Hya	5.5	30.0'	08h13m43.0s	-05°45'00"	2500 ly	18:38	19:00 ■	19:31	12	134	26	easy
PNe	NGC 2818	He 2-23	Pyx	11.9	36"	09h16m01.7s	-36°37'39"	6000 ly	18:35	19:01 ■	21:26	20	170	39	easy
Open	NGC 2547	Collinder 177	Vel	5.0	25.0'	08h10m09.0s	-49°12'54"	1500 ly	18:34	19:01 ■	20:36	20	187	28	obvious
Open	NGC 2516	Collinder 172	Car	3.3	30.0'	07h58m04.0s	-60°45'12"	1300 ly	18:32	19:01 ■	20:36	24	200	30	obvious
Open	IC 2391	Collinder 191	Vel	2.6	60.0'	08h40m32.0s	-53°02'00"	570 ly	18:31	19:02 ■	21:11	25	200	28	obvious
Gal	NGC 3115	Spindle Galaxy	Sex	10.0	7.6'x 3.5'	10h05m14.0s	-07°43'07"		18:37	19:02 ■	21:26	13	133	37	easy
Glob	NGC 2808		Car	6.2	14.0'	09h12m03.0s	-64°51'48"	26000 ly	18:34	19:03 ■	21:53	25	210	40	easy
Open	IC 2488	OCL 789	Vel	7.4	18.0'	09h27m38.0s	-57°00'00"	3700 ly	18:36	19:03 ■	22:02	25	199	39	easy
PNe	NGC 3132	Eight Burst	Vel	8.2	1.4'	10h07m01.8s	-40°26'11"	3600 ly	18:29	19:03 ■	22:23	20	169	39	obvious
PNe	NGC 3242	Ghost of Jupiter	Hya	8.6	40"	10h24m46.1s	-18°38'32"	2800 ly	18:29	19:03 ■	22:08	20	151	37	obvious
Glob	NGC 3201		Vel	6.9	20.0'	10h17m37.0s	-46°24'42"	13000 ly	18:35	19:04 ■	22:41	20	186	39	easy
Open	NGC 3114	Collinder 215	Car	4.5	35.0'	10h02m36.0s	-60°07'12"	3000 ly	18:35	19:06 ■	22:40	25	199	40	obvious
Open	IC 2581	Collinder 222	Car	5.3	5.0'	10h27m29.0s	-57°37'00"	8000 ly	18:29	19:06 ■	23:03	25	199	39	obvious

Cls	Primary ID	Alternate ID	Con	Mag	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty
Open	NGC 3324	Collinder 225	Car	6.7	12.0'	10h37m20.0s	-58°38'30"	7600 ly	18:34	19:07 ■	23:13	25	199	38	obvious
Open	NGC 3293	Collinder 224	Car	6.2	6.0'	10h35m51.0s	-58°13'48"	7600 ly	18:30	19:07 ■	23:11	25	199	38	obvious
Neb	NGC 3372	Eta Carinae Nebula	Car	3.0	120.0'	10h45m06.0s	-59°52'00"		18:36	19:07 ■	23:23	25	199	38	easy
Open	IC 2602	Collinder 229	Car	1.6	100.0'	10h42m58.0s	-64°24'00"	520 ly	18:31	19:08 ■	23:24	25	210	40	obvious
Open	NGC 3532	Collinder 238	Car	3.4	50.0'	11h05m39.0s	-58°45'12"	1600 ly	18:32	19:09 ■	23:42	25	198	38	obvious
Open	NGC 3766	Collinder 248	Cen	4.6	9.3'	11h36m14.0s	-61°36'30"	7200 ly	18:29	19:13 ■	00:14	25	198	40	obvious
PNe	NGC 3918	Blue Planetary	Cen	8.4	12"	11h50m17.7s	-57°10'57"	4600 ly	18:23	19:17 ■	00:25	25	198	38	obvious
PNe	NGC 4361	PN G294.1+43.6	Crv	10.9	1.3'	12h24m30.8s	-18°47'06"	3100 ly	18:35	19:45 ■	00:07	21	150	47	easy
Dark	DC 301.0-008.6C	Dark Doodad	Mus	6.0	42.4'	12h27m31.1s	-71°25'12"		18:34	19:48 ■	01:14	25	209	50	detectable
Dark	DC 300.7-001.0	Coalsack	Cru	6.0	16.0'	12h31m19.0s	-63°44'36"		18:29	19:52 ■	01:12	25	209	50	detectable
Gal	NGC 4594	M 104	Vir	9.1	9.1'x 5.6'	12h39m59.3s	-11°37'22"	60.0 Mly	18:33	20:01 ■	00:09	14	130	47	easy
Open	NGC 4755	Jewel Box	Cru	5.2	10.0'	12h53m39.0s	-60°21'42"	6400 ly	18:30	20:14 ■	01:32	25	198	50	obvious
Glob	NGC 4833		Mus	8.4	12.7'	12h59m34.0s	-70°52'30"	16000 ly	18:38	20:20 ■	01:45	25	209	50	detectable
Gal	NGC 4945	ESO 219 24	Cen	9.3	20.4'x 4.3'	13h05m26.2s	-49°28'15"	15.0 Mly	18:36	20:26 ■	01:32	21	184	49	detectable
Gal	NGC 5128	Centaurus A	Cen	7.8	27.5'x 18.2'	13h25m27.7s	-43°01'07"	12.0 Mly	18:36	20:46 ■	01:43	21	184	49	easy
Glob	NGC 5139	Omega Centauri	Cen	3.9	55.0'	13h26m46.0s	-47°28'36"	16000 ly	18:34	20:48 ■	01:51	21	184	49	obvious
PNe	NGC 5189	IC 4274	Mus	10.3	2.3'	13h33m33.0s	-65°58'27"	2000 ly	18:37	20:54 ■	02:16	25	208	50	easy
Gal	NGC 5236	M 83	Hya	7.8	14.1'x 13.2'	13h37m00.8s	-29°51'56"	15.0 Mly	18:34	20:58 ■	01:38	21	167	46	easy
Open	NGC 5281	Melotte 120	Cen	8.2	7.0'	13h46m35.0s	-62°55'00"	3600 ly	18:35	21:07 ■	02:27	25	208	50	easy
Open	NGC 5460	Collinder 280	Cen	6.1	35.0'	14h07m27.0s	-48°20'36"	2200 ly	18:37	21:28 ■	02:33	21	183	48	easy
Open	NGC 5662	Collinder 284	Cen	7.7	29.0'	14h35m37.0s	-56°37'06"	2200 ly	18:41	21:57 ■	03:09	25	197	48	detectable
Open	NGC 5822	Collinder 289	Lup	6.5	35.0'	15h04m21.0s	-54°23'48"	3000 ly	18:39	22:25 ■	03:37	25	196	59	easy
Open	NGC 5823	Melotte 131	Cir	8.6	12.0'	15h05m30.0s	-55°36'12"	3900 ly	18:38	22:26 ■	03:38	25	196	59	detectable
Dark	B 228		Lup	6.0	4.0°	15h43m01.3s	-34°09'12"		18:45	23:03 ■	03:45	21	165	59	very challenging
Open	NGC 6025	Collinder 296	TrA	6.0	14.0'	16h03m17.0s	-60°25'54"	2500 ly	18:36	23:23 ■	04:41	26	196	60	obvious
Open	NGC 6067	Collinder 298	Nor	6.5	14.0'	16h13m11.0s	-54°13'06"	4600 ly	18:37	23:34 ■	04:44	26	196	59	obvious
Open	NGC 6087	Collinder 300	Nor	6.0	14.0'	16h18m50.0s	-57°56'06"	2900 ly	18:35	23:40 ■	04:54	26	196	59	obvious
Glob	NGC 6121	M 4	Sco	5.4	36.0'	16h23m36.0s	-26°31'30"	9800 ly	19:09	23:43 ■	04:18	22	147	57	easy
Open	NGC 6124	Collinder 301	Sco	6.3	39.0'	16h25m20.0s	-40°39'12"	1700 ly	18:50	23:46 ■	04:41	22	182	59	easy
Open	NGC 6193	Collinder 310	Ara	5.4	14.0'	16h41m20.0s	-48°45'48"	3800 ly	18:57	00:02 ■	05:06	22	182	58	obvious
Glob	NGC 6218	M 12	Oph	6.1	16.0'	16h47m14.0s	-01°56'48"	23000 ly	20:21	00:07 ■	03:53	15	107	56	easy
Open	NGC 6231	Collinder 315	Sco	3.4	14.0'	16h54m10.0s	-41°49'30"	4100 ly	19:17	00:14 ■	05:11	22	181	58	obvious
Glob	NGC 6254	M 10	Oph	6.6	20.0'	16h57m09.0s	-04°06'00"	23000 ly	20:25	00:17 ■	04:09	15	107	56	easy
Glob	NGC 6266	M 62	Oph	6.4	15.0'	17h01m13.0s	-30°06'48"	26000 ly	19:40	00:21 ■	05:01	22	164	58	easy
Glob	NGC 6273	M 19	Oph	6.8	17.0'	17h02m38.0s	-26°16'06"	23000 ly	19:48	00:23 ■	04:58	22	146	56	easy
Open	NGC 6281	Collinder 324	Sco	8.4	8.0'	17h04m41.0s	-37°59'06"	1600 ly	19:33	00:24 ■	05:16	22	164	58	easy

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Dark	B 59	Pipe Nebula	Oph	5.0	60.0'	17h11m06.0s	-27°24'00"		20:12	00:31 ■	04:51	22	146	56	difficult
Open	NGC 6405	M 6	Sco	4.6	20.0'	17h40m20.0s	-32°15'12"	1600 ly	20:16	01:00 ■	05:44	22	164	58	obvious
Glob	NGC 6397		Ara	5.3	31.0'	17h40m42.0s	-53°40'24"	6500 ly	19:51	01:01 ■	05:45	26	195	58	easy
Open	NGC 6475	M 7	Sco	3.3	80.0'	17h53m51.0s	-34°47'36"	980 ly	20:26	01:14 ■	05:48	22	164	58	obvious
Open	NGC 6494	M 23	Sgr	5.9	29.0'	17h57m04.0s	-18°59'06"	2000 ly	20:56	01:17 ■	05:39	22	146	56	easy
Open	NGC 6514	M 20	Sgr	5.2	28.0'	18h02m42.0s	-22°58'18"	2700 ly	20:53	01:22 ■	05:48	22	145	67	obvious
Open	NGC 6531	M 21	Sgr	7.2	14.0'	18h04m13.0s	-22°29'24"	3900 ly	20:57	01:24 ■	05:46	22	145	67	easy
Neb	NGC 6523	NGC 6526	Sgr	5.0	17.0'x 15.0'	18h04m02.0s	-24°23'14"		20:53	01:24 ■	05:48	22	145	67	obvious
Glob	NGC 6541		CrA	6.3	15.0'	18h08m02.0s	-43°42'54"	13000 ly	20:29	01:28 ■	05:48	22	181	69	easy
Open	NGC 6603	M 24	Sgr	11.1	6.0'	18h18m26.0s	-18°24'24"	12000 ly	22:09	01:38 ■	05:07	15	145	67	difficult
Glob	NGC 6584		Tel	7.9	6.6'	18h18m38.0s	-52°12'54"	42000 ly	20:30	01:39 ■	05:49	26	195	69	easy
Open	NGC 6618	M 17	Sgr	7.3	25.0'	18h20m47.0s	-16°10'18"	4200 ly	21:23	01:41 ■	05:41	15	126	67	detectable
Open	M 25	IC 4725	Sgr	6.2	29.0'	18h31m47.0s	-19°07'00"	2000 ly	21:30	01:52 ■	05:47	22	145	67	easy
Glob	NGC 6656	M 22	Sgr	5.2	32.0'	18h36m24.0s	-23°54'12"	9800 ly	21:25	01:56 ■	05:48	22	145	67	easy
Open	NGC 6705	M 11	Sct	6.1	32.0'	18h51m05.0s	-06°16'12"	6100 ly	22:13	02:11 ■	05:47	16	125	67	easy
Glob	NGC 6723		Sgr	6.8	13.0'	18h59m33.0s	-36°37'54"	33000 ly	21:29	02:19 ■	05:50	22	163	69	easy
Neb	Bernes 157		CrA		1.5'	19h01m35.2s	-37°00'55"		21:32	02:22 ■	05:49	22	163	69	unknown
Gal	NGC 6744	ESO 104 42	Pav	9.1	17.0'x 10.7'	19h09m45.9s	-63°51'28"		21:10	02:30 ■	05:48	26	206	70	detectable
Glob	NGC 6752	Pavo Globular	Pav	5.3	29.0'	19h10m52.0s	-59°58'54"	20000 ly	21:15	02:31 ■	05:49	26	194	69	easy
Glob	NGC 6809	M 55	Sgr	6.3	19.0'	19h40m00.0s	-30°57'42"	20000 ly	22:18	03:00 ■	05:50	22	162	68	easy
Open	Collinder 411	Melotte 227	Oct	5.3	70.0'	20h17m19.0s	-79°02'00"	390 ly	22:13	03:38 ■	05:46	26	215	70	easy
Glob	NGC 7089	M 2	Aqr	6.6	16.0'	21h33m27.0s	-00°49'24"	49000 ly	01:10	04:52 ■	05:49	17	103	77	easy
Glob	NGC 7099	M 30	Cap	6.9	12.0'	21h40m22.0s	-23°10'42"	39000 ly	00:30	04:59 ■	05:52	23	143	77	easy
PNe	NGC 7293	Helix	Aqr	6.3	16.0'	22h29m38.5s	-20°50'14"	530 ly	01:24	05:18 ■	05:52	23	142	77	easy
Glob	NGC 104	47 Tucanae	Tuc	4.0	50.0'	00h24m05.0s	-72°04'54"	20000 ly	02:17	05:20 ■	05:51	24	204	10	obvious
Gal	NGC 292	Small Magellanic Clo	Tuc	2.8	5.3°x 3.4°	00h52m38.0s	-72°48'01"	200000 ly	02:46	05:21 ■	05:50	24	204	10	easy
Glob	NGC 362		Tuc	6.8	14.0'	01h03m14.0s	-70°50'54"	39000 ly	02:56	05:22 ■	05:49	24	204	10	easy
Gal	NGC 55	MCG -7-1-13	Scl	8.5	30.2'x 3.4'	00h15m08.4s	-39°13'13"	4.9 Mly	02:41	05:23 ■	05:50	18	159	9	easy
Gal	NGC 253	Sculptor Galaxy	Scl	7.9	28.2'x 5.5'	00h47m33.1s	-25°17'20"	13.0 Mly	03:34	05:24 ■	05:49	18	158	7	easy
Glob	NGC 288		Scl	8.1	13.0'	00h52m45.0s	-26°35'00"	39000 ly	03:37	05:24 ■	05:46	18	158	7	detectable
Gal	NGC 247	MCG -4-3-5	Cet	9.7	20.0'x 5.0'	00h47m08.6s	-20°45'38"	8.1 Mly	03:40	05:24 ■	05:46	18	158	7	detectable
PNe	NGC 246	PN G118.8-74.7	Cet	10.4	4.0'	00h47m03.3s	-11°52'19"	1600 ly	03:57	05:24 ■	05:44	10	140	7	detectable
Glob	NGC 1261		Hor	8.3	6.8'	03h12m16.0s	-55°13'00"	95000 ly	05:18	05:27 ■	05:48	24	202	19	easy
Gal	NGC 1291	MCG -7-7-8	Eri	9.5	9.1'x 6.6'	03h17m18.6s	-41°06'29"		04:04	05:27 ■	05:47	18	190	19	easy
Gal	NGC 1316	Fornax A radio sourc	For	9.4	12.6'x 7.9'	03h22m41.5s	-37°12'27"		04:21	05:28 ■	05:45	18	174	19	detectable
Gal	NGC 1068	M 77	Cet	9.7	6.6'x 5.8'	02h42m40.8s	-00°00'48"	70.0 Mly	04:44	05:28 ■	05:44	10	119	6	easy

Cls	Primary ID	Alternate ID	Con	Mag	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty
Gal	NGC 1365	MCG -6-8-26	For	10.4	10.5'x 6.2'	03h33m36.4s	-36°08'26"		04:41	05:29 ■	05:43	18	174	19	detectable
PNe	NGC 1535	Cleopatra's Eye	Eri	9.4	20"	04h14m15.8s	-12°44'22"	5800 ly	05:22	05:38 ■	05:54	11	137	17	obvious