

ASSA Deepsky 100 Observing List

Evening of 2017 Jun 23 at VS Star Party - Gansvlei

Sunset 17:32, Twilight ends 18:50, Twilight begins 05:43, Sunrise 07:01, Moon rise 07:02, Moon set 17:09
 Completely dark from 18:50 to 05:43. New Moon. All times local (GMT+2).

Listing All Classes visible above the perfect horizon and in complete darkness after 18:30 and before 06:01.

Cls	Primary ID	Alternate ID	Mag	Con	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
Open	NGC 2287	M 41	5.0	CMa	39.0'	06h46m01.0s	-20°45'24"	2300 ly	18:43	18:57	19:19	19	154	27	easy	Ultima 2" LX 17 mm 2.0x
Open	NGC 2362	Collinder 136	3.8	CMa	5.0'	07h18m41.0s	-24°57'18"	4500 ly	18:34	18:59	20:07	19	154	27	obvious	E-Lux 2" 40mm
Open	NGC 2437	M 46	6.6	Pup	20.0'	07h41m46.0s	-14°48'36"	4500 ly	18:43	18:59	19:45	12	135	26	easy	E-Lux 2" 40mm
Open	NGC 2422	M 47	4.3	Pup	25.0'	07h36m35.0s	-14°29'00"	1600 ly	18:39	18:59	19:52	12	135	26	obvious	E-Lux 2" 40mm
Open	NGC 2447	M 93	6.5	Pup	10.0'	07h44m30.0s	-23°51'24"	3400 ly	18:38	19:00	20:12	19	153	26	obvious	E-Lux 2" 40mm
Open	NGC 2548	M 48	5.5	Hya	30.0'	08h13m43.0s	-05°45'00"	2500 ly	18:42	19:00	19:57	12	134	26	easy	Ultima 2" LX 8mm
Open	NGC 2477	Collinder 165	5.7	Pup	15.0'	07h52m10.0s	-38°31'48"	4000 ly	18:38	19:01	20:53	19	171	28	obvious	E-Lux 2" 40mm
Open	NGC 2451	Collinder 161	3.7	Pup	45.0'	07h45m23.0s	-37°57'21"	720 ly	18:38	19:01	20:49	19	171	28	obvious	E-Lux 2" 26mm 2.0x
Open	NGC 2516	Collinder 172	3.3	Car	30.0'	07h58m04.0s	-60°45'12"	1300 ly	18:35	19:02	19:22	24	200	30	obvious	Ultima 2" LX 17 mm 2.0x
Open	NGC 2547	Collinder 177	5.0	Vel	25.0'	08h10m09.0s	-49°12'54"	1500 ly	18:37	19:02	19:22	20	187	28	obvious	E-Lux 2" 40mm
PNe	NGC 2818	He 2-23	11.9	Pyx	36"	09h16m01.7s	-36°37'39"	6000 ly	18:39	19:02	20:13	20	170	39	easy	E-Lux 2" 26mm 2.0x
Open	IC 2391	Collinder 191	2.6	Vel	60.0'	08h40m32.0s	-53°02'00"	570 ly	18:36	19:03	19:57	25	200	28	obvious	E-Lux 2" 40mm
PNe	NGC 3132	Eight Burst	8.2	Vel	1.4'	10h07m01.8s	-40°26'11"	3600 ly	18:32	19:03	21:08	20	169	39	obvious	Celestron Plössl 15mm
PNe	NGC 3242	Ghost of Jupiter	8.6	Hya	40"	10h24m46.1s	-18°38'32"	2800 ly	18:32	19:03	20:53	20	151	37	obvious	E-Lux 2" 26mm 2.0x
Gal	NGC 3115	Spindle Galaxy	10.0	Sex	7.6'x 3.5'	10h05m14.0s	-07°43'07"		18:40	19:03	20:12	13	133	37	easy	E-Lux 2" 32mm
Open	IC 2488	OCL 789	7.4	Vel	18.0'	09h27m38.0s	-57°00'00"	3700 ly	18:39	19:04	20:48	25	199	39	easy	E-Lux 2" 40mm
Glob	NGC 2808		6.2	Car	14.0'	09h12m03.0s	-64°51'48"	26000 ly	18:38	19:05	20:39	25	210	40	obvious	E-Lux 2" 40mm
Glob	NGC 3201		6.9	Vel	20.0'	10h17m37.0s	-46°24'42"	13000 ly	18:40	19:05	21:27	20	186	39	easy	E-Lux 2" 40mm
Open	NGC 3114	Collinder 215	4.5	Car	35.0'	10h02m36.0s	-60°07'12"	3000 ly	18:36	19:06	21:27	25	199	40	obvious	Ultima 2" LX 17 mm 2.0x
Open	NGC 3293	Collinder 224	6.2	Car	6.0'	10h35m51.0s	-58°13'48"	7600 ly	18:33	19:06	21:57	25	199	38	obvious	E-Lux 2" 40mm
Open	IC 2581	Collinder 222	5.3	Car	5.0'	10h27m29.0s	-57°37'00"	8000 ly	18:31	19:06	21:50	25	199	39	obvious	E-Lux 2" 40mm
Open	IC 2602	Collinder 229	1.6	Car	100.0'	10h42m58.0s	-64°24'00"	520 ly	18:34	19:07	22:11	25	210	40	obvious	E-Lux 2" 40mm
Neb	NGC 3372	Eta Carinae Nebula	3.0	Car	120.0'	10h45m06.0s	-59°52'00"		18:39	19:07	22:09	25	199	38	easy	E-Lux 2" 40mm
Open	NGC 3324	Collinder 225	6.7	Car	12.0'	10h37m20.0s	-58°38'30"	7600 ly	18:36	19:07	22:00	25	199	38	obvious	E-Lux 2" 40mm
Open	NGC 3532	Collinder 238	3.4	Car	50.0'	11h05m39.0s	-58°45'12"	1600 ly	18:35	19:08	22:27	25	198	38	obvious	Celestron Plössl 15mm

Cls	Primary ID	Alternate ID	Mag	Con	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
PNe	NGC 3918	Blue Planetary	8.4	Cen	12"	11h50m17.7s	-57°10'57"	4600 ly	18:25	19:08	23:10	25	198	38	obvious	Plössl 10mm 2.0x
Open	NGC 3766	Collinder 248	4.6	Cen	9.3'	11h36m14.0s	-61°36'30"	7200 ly	18:32	19:09	23:02	25	198	40	obvious	E-Lux 2" 40mm
PNe	NGC 4361	PN G294.1+43.6	10.9	Crv	1.3'	12h24m30.8s	-18°47'06"	3100 ly	18:36	19:09	22:53	21	150	47	easy	Celestron Plössl 15mm
Dark	DC 300.7-001.0	Coalsack	6.0	Cru	16.0'	12h31m19.0s	-63°44'36"		18:32	19:10	23:58	25	209	50	detectable	Celestron Plössl 15mm 2.0x
Gal	NGC 4594	M 104	9.1	Vir	9.1'x 5.6'	12h39m59.3s	-11°37'22"	60.0 Mly	18:37	19:12	22:56	14	130	47	easy	E-Lux 2" 40mm
Dark	DC 301.0-008.6C	Dark Doodad	6.0	Mus	42.4'	12h27m31.1s	-71°25'12"		18:36	19:12	00:00	25	209	50	detectable	E-Lux 2" 32mm 2.0x
Open	NGC 4755	Jewel Box	5.2	Cru	10.0'	12h53m39.0s	-60°21'42"	6400 ly	18:33	19:17	00:18	25	198	50	obvious	E-Lux 2" 40mm
Glob	NGC 4833		8.4	Mus	12.7'	12h59m34.0s	-70°52'30"	16000 ly	18:40	19:20	00:32	25	209	50	detectable	E-Lux 2" 40mm
Gal	NGC 4945	ESO 219 24	9.3	Cen	20.4'x 4.3'	13h05m26.2s	-49°28'15"	15.0 Mly	18:38	19:20	00:17	21	184	49	easy	E-Lux 2" 32mm
Gal	NGC 5128	Centaurus A	7.8	Cen	27.5'x 18.2'	13h25m27.7s	-43°01'07"	12.0 Mly	18:36	19:33	00:31	21	184	49	easy	E-Lux 2" 40mm
Glob	NGC 5139	Omega Centauri	3.9	Cen	55.0'	13h26m46.0s	-47°28'36"	16000 ly	18:37	19:34	00:37	21	184	49	obvious	Ultima 2" LX 17 mm
PNe	NGC 5189	IC 4274	10.3	Mus	2.3'	13h33m33.0s	-65°58'27"	2000 ly	18:38	19:41	01:02	25	208	50	easy	E-Lux 2" 26mm
Gal	NGC 5236	M 83	7.8	Hya	14.1'x 13.2'	13h37m00.8s	-29°51'56"	15.0 Mly	18:35	19:44	00:24	21	167	46	obvious	E-Lux 2" 40mm
Open	NGC 5281	Melotte 120	8.2	Cen	7.0'	13h46m35.0s	-62°55'00"	3600 ly	18:36	19:53	01:13	25	208	50	easy	E-Lux 2" 40mm
Open	NGC 5460	Collinder 280	6.1	Cen	35.0'	14h07m27.0s	-48°20'36"	2200 ly	18:38	20:14	01:19	21	183	48	easy	Ultima 2" LX 17 mm 2.0x
Open	NGC 5662	Collinder 284	7.7	Cen	29.0'	14h35m37.0s	-56°37'06"	2200 ly	18:41	20:42	01:56	25	197	48	detectable	E-Lux 2" 40mm
Open	NGC 5822	Collinder 289	6.5	Lup	35.0'	15h04m21.0s	-54°23'48"	3000 ly	18:39	21:11	02:22	25	196	59	easy	Ultima 2" LX 17 mm 2.0x
Open	NGC 5823	Melotte 131	8.6	Cir	12.0'	15h05m30.0s	-55°36'12"	3900 ly	18:39	21:12	02:24	25	196	59	easy	E-Lux 2" 40mm
Dark	B 228		6.0	Lup	4.0°	15h43m01.3s	-34°09'12"		18:50	21:49	01:17	21	165	59	challenging	E-Lux 2" 40mm
Open	NGC 6025	Collinder 296	6.0	TrA	14.0'	16h03m17.0s	-60°25'54"	2500 ly	18:35	22:10	03:28	26	196	60	obvious	E-Lux 2" 40mm
Open	NGC 6067	Collinder 298	6.5	Nor	14.0'	16h13m11.0s	-54°13'06"	4600 ly	18:36	22:20	03:30	26	196	59	obvious	E-Lux 2" 40mm
Open	NGC 6087	Collinder 300	6.0	Nor	14.0'	16h18m50.0s	-57°56'06"	2900 ly	18:36	22:26	03:40	26	196	59	obvious	E-Lux 2" 40mm
Glob	NGC 6121	M 4	5.4	Sco	36.0'	16h23m36.0s	-26°31'30"	9800 ly	18:40	22:30	03:04	22	147	57	easy	E-Lux 2" 26mm 2.0x
Open	NGC 6124	Collinder 301	6.3	Sco	39.0'	16h25m20.0s	-40°39'12"	1700 ly	18:42	22:32	03:27	22	182	59	easy	Ultima 2" LX 17 mm 2.0x
Open	NGC 6193	Collinder 310	5.4	Ara	14.0'	16h41m20.0s	-48°45'48"	3800 ly	18:36	22:48	03:53	22	182	58	obvious	E-Lux 2" 40mm
Glob	NGC 6218	M 12	6.1	Oph	16.0'	16h47m14.0s	-01°56'48"	23000 ly	19:08	22:54	02:40	15	107	56	obvious	E-Lux 2" 40mm
Open	NGC 6231	Collinder 315	3.4	Sco	14.0'	16h54m10.0s	-41°49'30"	4100 ly	18:33	23:01	03:58	22	181	58	obvious	E-Lux 2" 40mm
Glob	NGC 6254	M 10	6.6	Oph	20.0'	16h57m09.0s	-04°06'00"	23000 ly	19:12	23:03	02:55	15	107	56	easy	E-Lux 2" 40mm
Glob	NGC 6266	M 62	6.4	Oph	15.0'	17h01m13.0s	-30°06'48"	26000 ly	18:40	23:07	03:47	22	164	58	obvious	E-Lux 2" 40mm
Glob	NGC 6273	M 19	6.8	Oph	17.0'	17h02m38.0s	-26°16'06"	23000 ly	18:42	23:09	03:44	22	146	56	easy	E-Lux 2" 40mm
Open	NGC 6281	Collinder 324	8.4	Sco	8.0'	17h04m41.0s	-37°59'06"	1600 ly	18:42	23:11	04:02	22	164	58	easy	E-Lux 2" 40mm
Dark	B 59	Pipe Nebula	5.0	Oph	60.0'	17h11m06.0s	-27°24'00"		18:51	23:18	03:54	22	146	56	detectable	E-Lux 2" 26mm
Open	NGC 6405	M 6	4.6	Sco	20.0'	17h40m20.0s	-32°15'12"	1600 ly	19:03	23:47	04:31	22	164	58	obvious	E-Lux 2" 40mm
Glob	NGC 6397		5.3	Ara	31.0'	17h40m42.0s	-53°40'24"	6500 ly	18:41	23:48	04:58	26	195	58	easy	E-Lux 2" 26mm 2.0x
Open	NGC 6475	M 7	3.3	Sco	80.0'	17h53m51.0s	-34°47'36"	980 ly	19:12	00:00	04:48	22	164	58	obvious	E-Lux 2" 40mm
Open	NGC 6494	M 23	5.9	Sgr	29.0'	17h57m04.0s	-18°59'06"	2000 ly	19:42	00:04	04:25	22	146	56	easy	E-Lux 2" 40mm
Open	NGC 6514	M 20	5.2	Sgr	28.0'	18h02m42.0s	-22°58'18"	2700 ly	19:40	00:09	04:38	22	145	67	obvious	E-Lux 2" 40mm
Open	NGC 6531	M 21	7.2	Sgr	14.0'	18h04m13.0s	-22°29'24"	3900 ly	19:43	00:10	04:39	22	145	67	easy	E-Lux 2" 40mm

Cls	Primary ID	Alternate ID	Mag	Con	Size	RA 2000	Dec 2000	Distance	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
Neb	NGC 6523	NGC 6526	5.0	Sgr	17.0'x 15.0'	18h04m02.0s	-24°23'14"		19:40	00:10	04:41	22	145	67	obvious	E-Lux 2" 40mm
Glob	NGC 6541		6.3	CrA	15.0'	18h08m02.0s	-43°42'54"	13000 ly	19:16	00:15	05:14	22	181	69	obvious	E-Lux 2" 40mm
Open	NGC 6603	M 24	11.1	Sgr	6.0'	18h18m26.0s	-18°24'24"	12000 ly	20:40	00:24	04:10	15	145	67	difficult	E-Lux 2" 40mm
Glob	NGC 6584		7.9	Tel	6.6'	18h18m38.0s	-52°12'54"	42000 ly	19:17	00:25	05:34	26	195	69	easy	E-Lux 2" 40mm
Open	NGC 6618	M 17	7.3	Sgr	25.0'	18h20m47.0s	-16°10'18"	4200 ly	20:09	00:27	04:43	15	126	67	easy	E-Lux 2" 40mm
Open	M 25	IC 4725	6.2	Sgr	29.0'	18h31m47.0s	-19°07'00"	2000 ly	20:16	00:38	05:00	22	145	67	easy	E-Lux 2" 40mm
Glob	NGC 6656	M 22	5.2	Sgr	32.0'	18h36m24.0s	-23°54'12"	9800 ly	20:12	00:43	05:14	22	145	67	obvious	E-Lux 2" 26mm 2.0x
Open	NGC 6705	M 11	6.1	Sct	32.0'	18h51m05.0s	-06°16'12"	6100 ly	21:00	00:57	04:54	16	125	67	easy	Plössl 10mm
Glob	NGC 6723		6.8	Sgr	13.0'	18h59m33.0s	-36°37'54"	33000 ly	20:16	01:05	05:51	22	163	69	easy	E-Lux 2" 40mm
Neb	Barnes 157			CrA	1.5'	19h01m35.2s	-37°00'55"		20:18	01:08	05:50	22	163	69	unknown	Celestron Plössl 15mm
Gal	NGC 6744	ESO 104 42	9.1	Pav	17.0'x 10.7'	19h09m45.9s	-63°51'28"		19:57	01:17	05:49	26	206	70	easy	E-Lux 2" 40mm
Glob	NGC 6752	Pavo Globular	5.3	Pav	29.0'	19h10m52.0s	-59°58'54"	20000 ly	20:01	01:17	05:52	26	194	69	obvious	Ultima 2" LX 17 mm 2.0x
Glob	NGC 6809	M 55	6.3	Sgr	19.0'	19h40m00.0s	-30°57'42"	20000 ly	21:04	01:46	05:53	22	162	68	easy	E-Lux 2" 40mm
Open	Collinder 411	Melotte 227	5.3	Oct	70.0'	20h17m19.0s	-79°02'00"	390 ly	20:59	02:25	05:52	26	215	70	easy	E-Lux 2" 40mm
Glob	NGC 7089	M 2	6.6	Aqr	16.0'	21h33m27.0s	-00°49'24"	49000 ly	23:56	03:38	05:54	17	103	77	easy	E-Lux 2" 40mm
Glob	NGC 7099	M 30	6.9	Cap	12.0'	21h40m22.0s	-23°10'42"	39000 ly	23:16	03:45	05:56	23	143	77	easy	E-Lux 2" 40mm
PNe	NGC 7293	Helix	6.3	Aqr	16.0'	22h29m38.5s	-20°50'14"	530 ly	00:10	04:35	05:57	23	142	77	obvious	E-Lux 2" 40mm
Glob	NGC 104	47 Tucanae	4.0	Tuc	50.0'	00h24m05.0s	-72°04'54"	20000 ly	01:03	05:21	05:56	24	204	10	obvious	E-Lux 2" 40mm
Gal	NGC 292	Small Magellanic Clo	2.8	Tuc	5.3°x 3.4°	00h52m38.0s	-72°48'01"	200000 ly	01:31	05:22	05:55	24	204	10	obvious	E-Lux 2" 40mm
Glob	NGC 362		6.8	Tuc	14.0'	01h03m14.0s	-70°50'54"	39000 ly	01:43	05:23	05:54	24	204	10	easy	E-Lux 2" 40mm
Gal	NGC 55	MCG -7-1-13	8.5	ScI	30.2'x 3.4'	00h15m08.4s	-39°13'13"	4.9 Mly	01:28	05:25	05:56	18	159	9	easy	E-Lux 2" 26mm
Glob	NGC 288		8.1	ScI	13.0'	00h52m45.0s	-26°35'00"	39000 ly	02:24	05:26	05:54	18	158	7	easy	E-Lux 2" 40mm
Gal	NGC 247	MCG -4-3-5	9.7	Cet	20.0'x 5.0'	00h47m08.6s	-20°45'38"	8.1 Mly	02:27	05:26	05:54	18	158	7	detectable	E-Lux 2" 40mm
PNe	NGC 246	PN G118.8-74.7	10.4	Cet	4.0'	00h47m03.3s	-11°52'19"	1600 ly	02:44	05:27	05:52	10	140	7	detectable	E-Lux 2" 40mm
Gal	NGC 253	Sculptor Galaxy	7.9	ScI	28.2'x 5.5'	00h47m33.1s	-25°17'20"	13.0 Mly	02:20	05:27	05:56	18	158	7	easy	E-Lux 2" 40mm
Gal	Large Magellanic Clo	ESO 56 115	0.8	Dor	10.8°x 9.2°	05h23m34.6s	-69°45'22"	200000 ly	18:41	05:29	05:54	24	212	20	obvious	E-Lux 2" 40mm
Glob	NGC 1261		8.3	Hor	6.8'	03h12m16.0s	-55°13'00"	95000 ly	04:04	05:29	05:55	24	202	19	easy	E-Lux 2" 40mm
Neb	NGC 2070	Tarantula Nebula	8.3	Dor	5.0'	05h38m36.0s	-69°06'00"		18:37	05:30	05:59	24	212	20	obvious	E-Lux 2" 40mm
Gal	NGC 1291	MCG -7-7-8	9.5	Eri	9.1'x 6.6'	03h17m18.6s	-41°06'29"		04:25	05:30	05:53	18	190	19	easy	E-Lux 2" 40mm
Gal	NGC 1316	Fornax A radio sourc	9.4	For	12.6'x 7.9'	03h22m41.5s	-37°12'27"		04:37	05:30	05:52	18	174	19	easy	E-Lux 2" 40mm
Gal	NGC 1068	M 77	9.7	Cet	6.6'x 5.8'	02h42m40.8s	-00°00'48"	70.0 Mly	05:07	05:30	05:52	10	119	6	easy	E-Lux 2" 40mm
Gal	NGC 1365	MCG -6-8-26	10.4	For	10.5'x 6.2'	03h33m36.4s	-36°08'26"		04:48	05:31	05:50	18	174	19	detectable	E-Lux 2" 40mm
Glob	NGC 1851		7.1	Col	12.0'	05h14m06.0s	-40°02'48"	55000 ly	04:25	05:33	05:53	19	173	18	easy	E-Lux 2" 40mm
Glob	NGC 1904	M 79	7.7	Lep	9.6'	05h24m11.0s	-24°31'30"	49000 ly	05:05	05:36	05:50	19	155	16	easy	E-Lux 2" 40mm
PNe	NGC 1535	Cleopatra's Eye	9.4	Eri	20"	04h14m15.8s	-12°44'22"	5800 ly	04:23	05:36	05:59	11	137	17	obvious	Celestron Plössl 15mm 2.0x
Neb	NGC 1976	M 42	4.0	Ori	40.0'x 20.0'	05h35m18.0s	-05°23'00"		05:40	05:44	05:51	11	116	16	detectable	E-Lux 2" 40mm
Neb	NGC 1977		7.0	Ori	20.0'	05h35m18.0s	-04°51'00"		05:39	05:46	05:56	11	116	16	not visible	Ultima 2" LX 8mm