

ASSA Deepsky 100 Observing List

Evening of 2010 Aug 14 at Bloemfontein, South Africa

Sunset 17:57, Twilight ends 19:11, Twilight begins 05:28, Sunrise 06:42, Moon rise 09:57, Moon set 22:59
 Completely dark from 22:59 to 05:28. Waxing Crescent Moon. All times local (GMT+2).

Listing All Classes visible above 2 air mass and in twilight or moonlight after 19:19 and before 05:25.
 The minimum visual difficulty is: visible (at any difficulty).

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Distance	Begin	Optimum	End	S.A.	Ur. 2	Difficulty	Optimum EP
Dark	Dark Doodad	DC 301.0-008.6C	Mus	86.87950	-71.4200	42.4'	6.0		18:41	19:10	20:39	25	209	detectable	Plössl 4mm 2.0x
Gal	NGC 4594	M 104	Vir	89.99705	-11.6229	9.1'x 5.6'	9.1	60.0 Mly	18:54	19:11	19:31	14	130	easy	Ultima 42mm
PNe	NGC 3918	Blue Planetary	Cen	77.57387	-57.1825	12"	8.4	4600 ly	18:43	19:12	19:49	25	198	obvious	Plössl 6mm
PNe	NGC 4361	PN G294.1+43.6	Crv	86.12814	-18.7849	1.3'	10.9	3100 ly	18:54	19:12	19:30	21	150	detectable	Celestron Plössl 32mm 2.0x
Gal	NGC 5236	M 83	Hya	04.25335	-29.8655	14.1'x 13.2'	7.8	15.0 Mly	18:52	19:14	21:02	21	167	easy	Ultima 42mm
Open	NGC 3766	Collinder 248	Cen	74.05833	-61.6083	9.3'	4.6	7200 ly	18:49	19:15	19:40	25	198	obvious	Ultima 42mm
Open	NGC 4755	Jewel Box	Cru	93.41250	-60.3617	10.0'	5.2	6400 ly	18:50	19:16	20:56	25	198	obvious	Ultima 42mm
Gal	NGC 4945	ESO 219 24	Cen	96.35900	-49.4709	20.4'x 4.3'	9.3	15.0 Mly	18:56	19:16	20:56	21	184	detectable	E-Lux 2" 26mm
Glob	NGC 5139	Omega Centauri	Cen	01.69167	-47.4767	55.0'	3.9	16000 ly	18:52	19:16	21:15	21	184	easy	Ultima 42mm
Gal	NGC 5128	Centaurus A	Cen	01.36555	-43.0187	27.5'x 18.2'	7.8	12.0 Mly	18:54	19:16	21:07	21	184	easy	Ultima 42mm
Open	NGC 5460	Collinder 280	Cen	11.86250	-48.3433	35.0'	6.1	2200 ly	18:55	19:17	21:57	21	183	easy	Plössl 6mm 2.0x
PNe	NGC 5189	IC 4274	Mus	03.38739	-65.9741	2.3'	10.3	2000 ly	18:54	19:17	21:41	25	208	detectable	E-Lux 2" 26mm
Open	NGC 5281	Melotte 120	Cen	06.64583	-62.9167	7.0'	8.2	3600 ly	18:54	19:17	21:52	25	208	easy	Ultima 42mm
Glob	NGC 4833		Mus	94.89167	-70.8750	12.7'	8.4	16000 ly	18:56	19:18	21:11	25	209	detectable	Ultima 42mm
Open	NGC 5662	Collinder 284	Cen	18.90416	-56.6183	29.0'	7.7	2200 ly	18:58	19:18	21:41	25	197	detectable	Ultima 42mm
Open	NGC 5823	Melotte 131	Cir	26.37500	-55.6033	12.0'	8.6	3900 ly	18:55	19:19	22:35	25	196	detectable	Ultima 42mm
Open	NGC 5822	Collinder 289	Lup	26.08750	-54.3967	35.0'	6.5	3000 ly	18:55	19:19	22:39	25	196	easy	Plössl 6mm 2.0x
Dark	B 228		Lup	35.75542	-34.1533	4.0°	6.0		18:52	19:19	23:12	21	165	very challenging	Ultima 42mm
Glob	NGC 6121	M 4	Sco	45.90000	-26.5250	36.0'	5.4	9800 ly	18:51	19:22	23:42	22	147	easy	Plössl 4mm
Glob	NGC 6218	M 12	Oph	51.80833	-1.9467	16.0'	6.1	23000 ly	18:51	19:28	23:15	15	107	easy	Ultima 42mm
Glob	NGC 6254	M 10	Oph	54.28750	-4.1000	20.0'	6.6	23000 ly	18:53	19:32	23:31	15	107	easy	Ultima 42mm
Gal	NGC 6744	ESO 104 42	Pav	87.44125	-63.8577	17.0'x 10.7'	9.1		19:01	22:52	03:16	26	206	detectable	Ultima 42mm
Open	NGC 6025	Collinder 296	TrA	40.82083	-60.4317	14.0'	6.0	2500 ly	18:51	22:52	00:06	26	196	obvious	Ultima 42mm
Glob	NGC 6752	Pavo Globular	Pav	87.71667	-59.9817	29.0'	5.3	20000 ly	18:55	22:52	03:12	26	194	easy	Plössl 6mm 2.0x
Open	NGC 6087	Collinder 300	Nor	44.70833	-57.9350	14.0'	6.0	2900 ly	18:51	22:52	00:18	26	196	obvious	Ultima 42mm
Open	NGC 6067	Collinder 298	Nor	43.29585	-54.2183	14.0'	6.5	4600 ly	18:51	22:52	00:08	26	196	obvious	Ultima 42mm
Glob	NGC 6397		Ara	65.17500	-53.6733	31.0'	5.3	6500 ly	18:53	22:52	01:36	26	195	easy	Plössl 6mm 2.0x
Glob	NGC 6584		Tel	74.65833	-52.2150	6.6'	7.9	42000 ly	18:53	22:52	02:12	26	195	easy	Ultima 42mm
Open	NGC 6193	Collinder 310	Ara	50.33335	-48.7633	14.0'	5.4	3800 ly	18:49	22:52	00:31	22	182	obvious	Ultima 42mm
Glob	NGC 6541		CrA	72.00833	-43.7150	15.0'	6.3	13000 ly	18:53	22:52	01:51	22	181	easy	Ultima 42mm
Open	NGC 6231	Collinder 315	Sco	53.54168	-41.8250	14.0'	3.4	4100 ly	18:46	22:52	00:34	22	181	obvious	Ultima 42mm
Open	NGC 6124	Collinder 301	Sco	46.33334	-40.6533	39.0'	6.3	1700 ly	18:55	22:52	00:04	22	182	easy	Plössl 6mm 2.0x

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Distance	Begin	Optimum	End	S.A.	Ur. 2	Difficulty	Optimum EP	
Open	NGC 6281	Collinder 324	Sco	56.17083	-37.9850	8.0'	8.4	1600 ly	18:53	22:52	■	00:40	22	164	easy	Ultima 42mm
Glob	NGC 6723		Sgr	84.88750	-36.6317	13.0'	6.8	33000 ly	18:55	22:52	■	02:32	22	163	easy	Ultima 42mm
Open	NGC 6475	M 7	Sco	68.46250	-34.7933	80.0'	3.3	980 ly	18:51	22:52	■	01:25	22	164	obvious	Ultima 42mm
Open	NGC 6405	M 6	Sco	65.08333	-32.2533	20.0'	4.6	1600 ly	18:49	22:52	■	01:08	22	164	obvious	Ultima 42mm
Glob	NGC 6809	M 55	Sgr	95.00000	-30.9617	19.0'	6.3	20000 ly	18:57	22:52	■	03:04	22	162	easy	Ultima 42mm
Glob	NGC 6266	M 62	Oph	55.30417	-30.1133	15.0'	6.4	26000 ly	18:51	22:52	■	00:25	22	164	easy	Ultima 42mm
Dark	B 59	Pipe Nebula	Oph	57.77500	-27.4000	60.0'	5.0		18:53	22:52	■	00:30	22	146	very challenging	Ultima 42mm
Open	NGC 6531	M 21	Sgr	71.05417	-22.4900	14.0'	7.2	3900 ly	18:53	22:52	■	01:15	22	145	easy	Ultima 42mm
Glob	NGC 6273	M 19	Oph	55.65833	-26.2683	17.0'	6.8	23000 ly	18:51	22:52	■	00:19	22	146	easy	Ultima 42mm
Open	NGC 6494	M 23	Sgr	69.26666	-18.9850	29.0'	5.9	2000 ly	18:53	22:52	■	01:02	22	146	easy	Ultima 42mm
Neb	NGC 6523	NGC 6526	Sgr	71.00833	-24.3872	17.0'x 15.0'	5.0		18:50	22:52	■	01:18	22	145	obvious	Ultima 42mm
Open	M 25	IC 4725	Sgr	77.94583	-19.1167	29.0'	6.2	2000 ly	18:55	22:52	■	01:36	22	145	easy	Ultima 42mm
Open	NGC 6603	M 24	Sgr	74.60833	-18.4067	6.0'	11.1	12000 ly	22:51	22:52	■	00:16	15	145	difficult	Ultima 42mm
Open	NGC 6618	M 17	Sgr	75.19583	-16.1717	25.0'	7.3	4200 ly	18:59	22:52	■	01:21	15	126	easy	Ultima 42mm
Open	NGC 6705	M 11	Sct	82.77084	-6.2700	32.0'	6.1	6100 ly	18:57	22:52	■	01:31	16	125	easy	Ultima 42mm
Glob	NGC 6656	M 22	Sgr	79.10000	-23.9033	32.0'	5.2	9800 ly	18:54	22:53	■	01:50	22	145	easy	Plössl 6mm 2.0x
Open	NGC 6514	M 20	Sgr	70.67499	-22.9717	28.0'	5.2	2700 ly	18:52	22:53	■	01:14	22	145	obvious	Ultima 42mm
Open	Collinder 411	Melotte 227	Oct	04.32916	-79.0333	70.0'	5.3	390 ly	19:02	23:01	■	04:30	26	215	easy	Ultima 42mm
Glob	NGC 7089	M 2	Aqr	23.36250	-0.8233	16.0'	6.6	49000 ly	20:34	00:16	■	03:58	17	103	easy	Ultima 42mm
Glob	NGC 7099	M 30	Cap	25.09167	-23.1783	12.0'	6.9	39000 ly	19:54	00:23	■	04:52	23	143	easy	Ultima 42mm
PNe	NGC 7293	Helix	Aqr	37.41045	-20.8371	16.0'	6.3	530 ly	20:48	01:12	■	05:37	23	142	easy	Ultima 42mm
Gal	NGC 55	MCG -7-1-13	ScI	3.78510	-39.2203	30.2'x 3.4'	8.5	4.9 Mly	22:52	02:57	■	05:45	18	159	easy	Plössl 6mm
Glob	NGC 104	47 Tucanae	Tuc	6.02083	-72.0817	50.0'	4.0	20000 ly	21:39	03:07	■	05:47	24	204	obvious	Ultima 42mm
Gal	NGC 247	MCG -4-3-5	Cet	11.78595	-20.7604	20.0'x 5.0'	9.7	8.1 Mly	23:26	03:29	■	05:41	18	158	detectable	Ultima 42mm
PNe	NGC 246	PN G118.8-74.7	Cet	11.76395	-11.8720	4.0'	10.4	1600 ly	23:32	03:29	■	05:42	10	140	detectable	Ultima 42mm
Gal	NGC 253	Sculptor Galaxy	ScI	11.88810	-25.2888	28.2'x 5.5'	7.9	13.0 Mly	22:57	03:30	■	05:46	18	158	easy	Ultima 42mm
Glob	NGC 288		ScI	13.18750	-26.5833	13.0'	8.1	39000 ly	23:04	03:35	■	05:43	18	158	detectable	Ultima 42mm
Gal	NGC 292	Small Magellanic Cl	Tuc	13.15830	-72.8002	5.3°x 3.4°	2.8	200000 ly	22:08	03:35	■	05:45	24	204	obvious	Ultima 42mm
Glob	NGC 362		Tuc	15.80833	-70.8483	14.0'	6.8	39000 ly	22:18	03:46	■	05:45	24	204	easy	Ultima 42mm
Gal	NGC 1068	M 77	Cet	40.66995	-0.0133	6.6'x 5.8'	9.7	70.0 Mly	01:46	05:11	■	05:46	10	119	easy	Ultima 42mm
Glob	NGC 1261		Hor	48.06667	-55.2167	6.8'	8.3	95000 ly	00:41	05:14	■	05:47	24	202	easy	Ultima 42mm
Gal	NGC 1291	MCG -7-7-8	Eri	49.32750	-41.1080	9.1'x 6.6'	9.5		01:03	05:15	■	05:46	18	190	easy	Ultima 42mm
Gal	NGC 1316	Fornax A radio sour	For	50.67285	-37.2076	12.6'x 7.9'	9.4		01:15	05:16	■	05:45	18	174	easy	Ultima 42mm
Gal	NGC 1365	MCG -6-8-26	For	53.40180	-36.1406	10.5'x 6.2'	10.4		01:53	05:17	■	05:44	18	174	detectable	Ultima 42mm
Gal	Large Magellanic Cl	ESO 56 115	Dor	80.89410	-69.7561	10.8°x 9.2°	0.8	200000 ly	02:38	05:18	■	05:45	24	212	obvious	Ultima 42mm
Neb	NGC 2070	Tarantula Nebula	Dor	84.65000	-69.1000	5.0'	8.3		02:54	05:19	■	05:48	24	212	obvious	Ultima 42mm
Glob	NGC 1851		Col	78.52500	-40.0467	12.0'	7.1	55000 ly	03:00	05:20	■	05:45	19	173	easy	Ultima 42mm
PNe	NGC 1535	Cleopatra's Eye	Eri	63.56567	-12.7395	20"	9.4	5800 ly	02:46	05:21	■	05:53	11	137	obvious	Celestron Plössl 15mm 2.0x
Glob	NGC 1904	M 79	Lep	81.04583	-24.5250	9.6'	7.7	49000 ly	03:35	05:21	■	05:44	19	155	easy	Ultima 42mm
Open	NGC 2287	M 41	CMa	01.50417	-20.7567	39.0'	5.0	2300 ly	05:03	05:22	■	05:42	19	154	easy	Plössl 6mm 2.0x
Neb	NGC 1976	M 42	Ori	83.82500	-5.3833	40.0'x 20.0'	4.0		04:23	05:22	■	05:46	11	116	obvious	Ultima 42mm
Neb	NGC 1977		Ori	83.82500	-4.8500	20.0'	7.0		04:25	05:22	■	05:38	11	116	difficult	Ultima 42mm

Symbol Key:

Open	Open Cluster	Doub	Double or Multiple Star	Con	Constellation
Glob	Globular Cluster	Bin	Binary Star (with orbit)	MSS	Major Solar System Object
PNe	Planetary Nebula	Var	Variable Star	Com	Comet
Neb	Diffuse Nebula	DVar	Double & Variable	MP	Minor Planet
Gal	Galaxy	BVar	Binary & Variable		
GalCl	Galaxy Cluster				
Dark	Dark Nebula				
QSO	Quasar				

Observation status: Y = observed, N = not observed, R = re-observe

Quality of opportunity (Q): A = optimum, B = near optimum, F = far from optimum