ASSA Deepsky 100 Observing List
Evening of 2010 Feb 13 at Bloemfontein, South Africa

Sunset 19:10, Twilight ends 20:28, Twilight begins 04:31, Sunrise 05:49, Moon rise 05:59, Moon set 18:42
Completely dark from 20:28 to 04:31. New Moon. All times local (GMT+2).

Listing All Classes visible above 2 air mass and near maximum altitude and in complete darkness after 20:29 and before 04:22.

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Begin	Optimum	End	S.A.	Ur. 2	Difficulty	Optimum EP
Gal	NGC 1291	MCG -7-7-8	Eri	49.32750	-41.1080	9.1'x 6.6'	9.5	20:05	20:29	22:52	18	190	detectable	Ultima 42mm MD
Gal	Fornax A radio sour	NGC 1316	For	50.67285	-37.2076	12.6'x 7.9'	9.4	20:07	20:29	22:39	18	174	detectable	Celestron Plössl 32mm MD
Gal	NGC 1365	MCG -6-8-26	For	53.40180	-36.1406	10.5'x 6.2'	10.4	20:07	20:29	22:20	18	174	detectable	Ultima 42mm MD
PNe	Cleopatra's Eye	NGC 1535	Eri	63.56567	-12.7395	20"	9.4	19:56	20:29	23:05	11	137	obvious	Celestron Plössl 15mm 2.0x MD
Gal	Small Magellanic Cl	NGC 292	Tuc	13.15830	-72.8002	5.3°x 3.4°	2.8	20:07	20:30	21:03	24	204	easy	Ultima 42mm MD
Glob	NGC 362		Tuc	15.80833	-70.8483	14.0'	6.8	20:07	20:30	21:12	24	204	detectable	Celestron Plössl 32mm MD
Glob	NGC 1261		Hor	48.06667	-55.2167	6.8'	8.3	20:07	20:30	23:07	24	202	detectable	Ultima 42mm MD
Glob	NGC 1851		Col	78.52500	-40.0467	12.0'	7.1	20:04	20:35	00:36	19	173	easy	Celestron Plössl 32mm MD
Glob	M 79	NGC 1904	Lep	81.04583	-24.5250	9.6'	7.7	20:02	20:35	00:15	19	155	easy	Ultima 42mm MD
Gal	Large Magellanic Cl	ESO 56 115	Dor	80.89410	-69.7561	10.8°x 9.2°	0.8	20:05	20:40	01:30	24	212	easy	Ultima 42mm MD
Neb	Tarantula Nebula	NGC 2070	Dor	84.65000	-69.1000	5.0'	8.3	20:02	20:42	01:45	24	212	obvious	Ultima 42mm MD
Open	M 41	NGC 2287	CMa	01.50417	-20.7567	39.0'	5.0	20:03	21:26	01:50	19	154	easy	Celestron Plössl 9mm MD
Open	NGC 2362	Collinder 136	CMa	09.67083	-24.9550	5.0'	3.8	19:54	21:59	02:32	19	154	obvious	Ultima 42mm MD
Open	M 47	NGC 2422	Pup	14.14583	-14.4833	25.0'	4.3	20:01	22:17	02:31	12	135	obvious	Celestron Plössl 15mm MD
Open	M 46	NGC 2437	Pup	15.44167	-14.8100	20.0'	6.6	20:05	22:23	02:27	12	135	easy	Celestron Plössl 15mm MD
Open	M 93	NGC 2447	Pup	16.12500	-23.8567	10.0'	6.5	20:01	22:25	02:56	19	153	obvious	Ultima 42mm MD
Open	NGC 2451	Collinder 161	Pup	16.34589	-37.9559	45.0'	3.7	20:02	22:26	03:17	19	171	obvious	Celestron Plössl 9mm MD
Open	NGC 2477	Collinder 165	Pup	18.04167	-38.5300	15.0'	5.7	20:02	22:33	03:24	19	171	obvious	Celestron Plössl 32mm MD
Open	NGC 2516	Collinder 172	Car	19.51667	-60.7533	30.0'	3.3	20:00	22:38	03:56	24	200	obvious	Celestron Plössl 9mm MD
Open	NGC 2547	Collinder 177	Vel	22.53750	-49.2150	25.0'	5.0	20:03	22:50	03:57	20	187	obvious	Celestron Plössl 15mm MD
Open	M 48	NGC 2548	Hya	23.42917	-5.7500	30.0'	5.5	20:05	22:54	02:48	12	134	easy	Celestron Plössl 9mm MD
Open	IC 2391	Collinder 191	Vel	30.13333	-53.0333	60.0'	2.6	20:03	23:20	04:31	25	200	obvious	Plössl 6mm MD
Glob	NGC 2808		Car	38.01250	-64.8633	14.0'	6.2	20:06	23:52	04:49	25	210	easy	Celestron Plössl 32mm MD
PNe	NGC 2818	He 2-23	Pyx	39.00690	-36.6274	36"	11.9	20:09	23:56	04:31	20	170	detectable	Celestron Plössl 9mm MD
Open	IC 2488	OCL 789	Vel	41.90833	-57.0000	18.0'	7.4	20:12	00:08	04:41	25	199	detectable	Celestron Plössl 32mm MD
Open	NGC 3114	Collinder 215	Car	50.65000	-60.1200	35.0'	4.5	20:08	00:42	04:53	25	199	obvious	Celestron Plössl 9mm MD
Gal	Spindle Galaxy	NGC 3115	Sex	51.30815	-7.7185	7.6'x 3.5'	10.0	21:02	00:46	04:28	13	133	detectable	Celestron Plössl 32mm MD
PNe	Eight Burst	NGC 3132	Vel	51.75738	-40.4364	1.4'	8.2	20:05	00:47	04:56	20	169	obvious	Celestron Plössl 15mm MD
Glob	NGC 3201		Vel	54.40417	-46.4117	20.0'	6.9	20:36	00:58	04:45	20	186	detectable	Celestron Plössl 15mm MD
PNe	Ghost of Jupiter	NGC 3242	Hya	56.19224	-18.6423	40"	8.6	20:44	01:05	04:59	20	151	obvious	Celestron Plössl 15mm MD
Open	IC 2581	Collinder 222	Car	56.87084	-57.6167	5.0'	5.3	20:01	01:08	05:00	25	199	obvious	Ultima 42mm MD
Open	NGC 3293	Collinder 224	Car	58.96250	-58.2300	6.0'	6.2	20:04	01:16	04:58	25	199	obvious	Ultima 42mm MD
Open	NGC 3324	Collinder 225	Car	59.33333	-58.6417	12.0'	6.7	20:11	01:17	04:54	25	199	easy	Ultima 42mm MD
Open	IC 2602	Collinder 229	Car	60.74167	-64.4000	100.0'	1.6	20:07	01:23	04:56	25	210	obvious	Plössl 4mm MD
Neb	Eta Carinae Nebula	NGC 3372	Car	61.27500	-59.8667	120.0'	3.0	20:10	01:26	04:55	25	199	obvious	Ultima 42mm MD
Open	NGC 3532	Collinder 238	Car	66.41250	-58.7533	50.0'	3.4	20:30	01:46	04:56	25	198	obvious	Plössl 6mm MD
Open	NGC 3766	Collinder 248	Cen	74.05833	-61.6083	9.3'	4.6	20:57	02:17	04:59	25	198	obvious	Ultima 42mm MD
PNe	Blue Planetary	NGC 3918	Cen	77.57387	-57.1825	12"	8.4	21:16	02:30	05:07	25	198	obvious	Celestron Plössl 9mm 2.0x MD
PNe	NGC 4361	PN G294.1+43.6	Crv	86.12814	-18.7849	1.3'	10.9	23:02	03:04	04:54	21	150	detectable	Celestron Plössl 15mm MD
Dark	Dark Doodad	DC 301.0-008.6C	Mus	86.87950	-71.4200	42.4'	6.0	21:40	03:07	04:57	25	209	detectable	Plössl 6mm MD
Dark	Coalsack	DC 300.7-001.0	Cru	87.82917	-63.7433	16.0'	6.0	22:33	03:11	04:51	25	209	difficult	Celestron Plössl 15mm MD
Gal	Sombrero Galaxy	M 104	Vir	89.99705	-11.6229	9.1'x 5.6'	9.1	23:15	03:20	04:56	14	130	easy	Ultima 42mm MD
Open	Jewel Box	NGC 4755	Cru	93.41250	-60.3617	10.0'	5.2	22:16	03:33	04:59	25	198	obvious	Ultima 42mm MD
Glob	NGC 4833		Mus	94.89167	-70.8750	12.7'	8.4	23:00	03:39	04:49	25	209	detectable	Celestron Plössl 32mm MD
Gal	NGC 4945	ESO 219 24	Cen	96.35900	-49.4709	20.4'x 4.3'	9.3	23:20	03:45	04:54	21	184	detectable	Celestron Plössl 15mm MD
Gal	Centaurus A	NGC 5128	Cen	01.36555	-43.0187	27.5'x 18.2'	7.8	23:40	04:03	04:55	21	184	detectable	Celestron Plössl 15mm MD
Glob	Omega Centauri	NGC 5139	Cen	01.69167	-47.4767	55.0'	3.9	23:02	04:05	04:56	21	184	easy	Plössl 4mm MD
PNe	NGC 5189	IC 4274	Mus	03.38739	-65.9741	2.3'	10.3	22:55	04:09	04:53	25	208	detectable	Ultima 42mm 2.0x MD
Gal	M 83	NGC 5236	Hya	04.25335	-29.8655	14.1'x 13.2'	7.8	23:40	04:12	04:58	21	167	easy	Celestron Plössl 32mm MD
Open	NGC 5281	Melotte 120	Cen	06.64583	-62.9167	7.0'	8.2	23:06	04:14	04:54	25	208	easy	Ultima 42mm MD
Open	NGC 5460	Collinder 280	Cen	11.86250	-48.3433	35.0'	6.1	00:07	04:21	04:53	21	183	easy	Celestron Plössl 9mm MD
Open	NGC 5662	Collinder 284	Cen	18.90416	-56.6183	29.0'	7.7	01:24	04:23	04:48	25	197	detectable	Plössl 4mm MD
Open	NGC 5823	Melotte 131	Cir	26.37500	-55.6033	12.0'	8.6	01:13	04:25	04:52	25	196	detectable	Ultima 42mm MD
Open	NGC 5822	Collinder 289	Lup	26.08750	-54.3967	35.0'	6.5	01:02	04:25	04:52	25	196	detectable	Celestron Plössl 9mm MD
Open	NGC 6025	Collinder 296	TrA	40.82083	-60.4317	14.0'	6.0	01:24	04:27	04:56	26	196	obvious	Celestron Plössl 32mm MD
Open	NGC 6087	Collinder 300	Nor	44.70833	-57.9350	14.0'	6.0	01:43	04:27	04:56	26	196	obvious	Celestron Plössl 32mm MD
Open	NGC 6067	Collinder 298	Nor	43.29585	-54.2183	14.0'	6.5	01:41	04:29	04:56	26	196	easy	Celestron Plössl 32mm MD
Open	NGC 6193	Collinder 310	Ara	50.33335	-48.7633	14.0'	5.4	02:16	04:30	04:57	22	182	obvious	Celestron Plössl 32mm MD
Open	NGC 6124	Collinder 301	Sco	46.33334	-40.6533	39.0'	6.3	02:25	04:30	04:51	22	182	detectable	Celestron Plössl 9mm MD
Dark	B 228		Lup	35.75542	-34.1533	4.0°	6.0	02:10	04:30	04:53	21	165	not visible	Ultima 42mm MD
Open	NGC 1976	OCL 528	Ori	83.81667	-5.3900	47.0'		-	-	-	11	116	unknown	Celestron Plössl 9mm MD
Open	NGC 1977	OCL 525.1	Ori	83.81667	-4.8200	20.0'		-	-	-	11	116	unknown	Celestron Plössl 15mm MD

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