

Southern Skies Binocular list Observing List
Evening of 2010 Mar 13 at Bloemfontein, South Africa

Sunset 18:41, Twilight ends 19:54, Twilight begins 04:55, Sunrise 06:09, Moon rise 04:46, Moon set 17:14
 Completely dark from 19:54 to 04:46. New Moon. All times local (GMT+2).

Listing All Classes visible above the perfect horizon and in complete darkness.

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Begin	Optimum	End	HA	Difficulty	
Glob	47 Tucanae	NGC 104	Tuc	6.02083	-72.0817	50.0'	4.0	19:36	19:53	■	21:52	+99.7959	detectable
Gal	Small Magell	NGC 292	Tuc	13.15830	-72.8002	5.3°x 3.4°	2.8	19:37	19:54	■	21:53	+92.9137	detectable
Glob	NGC 362		Tuc	15.80833	-70.8483	14.0'	6.8	19:36	19:54	■	21:27	+90.1708	detectable
Glob	NGC 1261		Hor	48.06667	-55.2167	6.8'	8.3	19:39	19:55	■	21:13	+58.0982	difficult
Glob	NGC 1851		Col	78.52500	-40.0467	12.0'	7.1	19:35	19:57	■	22:26	+28.1273	detectable
Gal	Large Magell	ESO 56 115	Dor	80.89410	-69.7561	10.8°x 9.2°	0.8	19:35	20:00	■	23:40	+26.5938	easy
Neb	Tarantula Ne	NGC 2070	Dor	84.65000	-69.1000	5.0'	8.3	19:32	20:01	■	23:54	+23.0004	easy
Open	NGC 2451	Collinder 16	Pup	16.34589	-37.9559	45.0'	3.7	19:29	20:36	■	01:27	+0.1228	easy
Open	NGC 2477	Collinder 16	Pup	18.04167	-38.5300	15.0'	5.7	19:30	20:42	■	01:34	+0.0820	easy
Open	NGC 2516	Collinder 17	Car	19.51667	-60.7533	30.0'	3.3	19:28	20:48	■	02:06	+0.0180	obvious
Open	NGC 2547	Collinder 17	Vel	22.53750	-49.2150	25.0'	5.0	19:31	21:00	■	02:07	+0.0788	easy
Open	NGC 2546	Collinder 17	Pup	23.06250	-37.5950	70.0'	5.2	19:35	21:02	■	00:42	-0.0311	detectable
Open	NGC 2627	Collinder 18	Pyx	29.31250	-29.9550	8.0'	8.4	19:36	21:27	■	01:02	+0.0770	detectable
Open	IC 2391	Collinder 19	Vel	30.13333	-53.0333	60.0'	2.6	19:30	21:31	■	02:41	+0.0787	obvious
Open	NGC 2659	Collinder 19	Vel	30.65417	-44.9833	5.0'	9.8	19:43	21:32	■	00:07	-0.0072	challenging
Open	IC 2395	Collinder 19	Vel	30.62500	-48.1133	18.6'	4.6	19:30	21:33	■	02:38	+0.1999	obvious
Open	NGC 2670	Collinder 20	Vel	31.37500	-48.8000	7.0'	9.2	19:40	21:36	■	00:42	+0.1225	challenging
Glob	NGC 2808		Car	38.01250	-64.8633	14.0'	6.2	19:33	22:02	■	03:24	+0.1146	detectable
Open	IC 2488	OCL 789	Vel	41.90833	-57.0000	18.0'	7.4	19:39	22:18	■	02:22	+0.0951	detectable
Open	NGC 2910	Collinder 20	Vel	42.62500	-52.9183	4.0'	8.3	19:35	22:20	■	03:03	+0.0811	detectable

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Begin	Optimum	End	HA	Difficulty	
Open	NGC 2925	Collinder 21	Vel	43.29584	-53.3983	10.0'	8.3	19:39	22:23	■	02:18	+0.0685	difficult
Open	NGC 3114	Collinder 21	Car	50.65000	-60.1200	35.0'	4.5	19:33	22:52	■	04:10	+0.0114	easy
Glob	NGC 3201		Vel	54.40417	-46.4117	20.0'	6.9	19:44	23:08	■	02:52	+0.0906	detectable
Open	NGC 3228	Collinder 21	Vel	55.34167	-51.7283	5.0'	6.4	19:32	23:11	■	04:21	-0.0232	easy
Open	NGC 3293	Collinder 22	Car	58.96250	-58.2300	6.0'	6.2	19:33	23:26	■	04:42	+0.1720	easy
Open	Collinder 22	Melotte 101	Car	60.55000	-65.1000	15.0'	8.4	20:16	23:32	■	02:48	+0.1387	challenging
Open	IC 2602	Collinder 22	Car	60.74167	-64.4000	100.0'	1.6	19:32	23:33	■	04:55	+0.2256	obvious
Neb	Eta Carinae	NGC 3372	Car	61.27500	-59.8667	120.0'	3.0	19:34	23:35	■	04:53	+0.1333	easy
Open	NGC 3532	Collinder 23	Car	66.41250	-58.7533	50.0'	3.4	19:34	23:56	■	05:12	+0.1506	easy
Open	IC 2714	Collinder 24	Car	69.36250	-62.7333	14.0'	8.2	20:27	00:07	■	03:48	+0.1234	difficult
Open	Collinder 24	Melotte 105	Car	69.92500	-63.4833	5.0'	9.4	20:41	00:10	■	03:39	+0.2340	challenging
Open	NGC 3766	Collinder 24	Cen	74.05833	-61.6083	9.3'	4.6	19:32	00:26	■	05:17	+0.0002	obvious
Open	NGC 4052	Collinder 25	Cru	80.25834	-63.2250	9.0'	8.8	21:14	00:51	■	04:28	+0.1834	challenging
Open	NGC 4103	Collinder 25	Cru	81.66667	-61.2500	6.0'	7.4	19:44	00:57	■	05:13	+0.1910	detectable
Open	NGC 4337	Collinder 25	Cru	86.01666	-58.1233	4.0'	9.8	22:13	01:14	■	04:15	+0.1121	challenging
Open	NGC 4349	Collinder 25	Cru	86.03333	-61.8717	5.0'	8.0	20:06	01:14	■	05:11	+0.1649	detectable
Open	Collinder 25	Harvard 5	Cru	86.81667	-60.7789	5.0'	8.8	21:01	01:17	■	05:04	+0.0547	difficult
Open	NGC 4463	Collinder 26	Mus	87.48334	-64.7900	3.5'	8.2	19:57	01:20	■	05:13	+0.2236	detectable
Open	Collinder 26	Harvard 6	Mus	89.48751	-68.3667	9.0'	10.7	20:02	01:28	■	05:15	+0.1460	not visible
Open	NGC 4609	Collinder 26	Cru	90.57500	-62.9950	4.0'	4.5	20:11	01:32	■	05:24	+0.1959	obvious
Open	Jewel Box	NGC 4755	Cru	93.41250	-60.3617	10.0'	5.2	20:26	01:43	■	05:18	+0.1437	obvious
Open	NGC 4815	Collinder 26	Mus	94.49584	-64.9600	5.0'	10.4	20:26	01:48	■	05:17	+0.1514	not visible
Glob	NGC 4833		Mus	94.89167	-70.8750	12.7'	8.4	22:48	01:49	■	04:48	+0.0573	challenging
Open	NGC 4852	Collinder 26	Cen	95.03750	-59.6133	7.0'	8.9	22:08	01:50	■	05:04	+0.1900	difficult
Gal	Centaurus A	NGC 5128	Cen	01.36555	-43.0187	27.5'x 18.2'	7.8	22:26	02:16	■	05:11	+0.2865	detectable

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Begin	Optimum	End	HA	Difficulty	
Glob	Omega Centau	NGC 5139	Cen	01.69167	-47.4767	55.0'	3.9	21:31	02:17	■	05:14	+0.2535	easy
Glob	NGC 5286		Cen	06.61250	-51.3733	11.0'	7.4	22:22	02:36	■	05:12	+0.0492	detectable
Open	NGC 5316	Collinder 27	Cen	08.48749	-61.8683	14.0'	8.8	00:05	02:43	■	05:01	+0.1098	very challenging
Open	NGC 5460	Collinder 28	Cen	11.86250	-48.3433	35.0'	6.1	22:52	02:57	■	05:13	+0.2033	detectable
Open	NGC 5617	Collinder 28	Cen	17.43333	-60.7117	10.0'	8.5	23:29	03:19	■	05:10	+0.0772	difficult
Open	NGC 5662	Collinder 28	Cen	18.90416	-56.6183	29.0'	7.7	00:45	03:25	■	05:05	+0.1454	challenging
Open	NGC 5823	Melotte 131	Cir	26.37500	-55.6033	12.0'	8.6	00:37	03:55	■	05:11	+0.1258	challenging
Open	NGC 5822	Collinder 28	Lup	26.08750	-54.3967	35.0'	6.5	00:02	03:54	■	05:12	+0.2331	difficult
Open	NGC 5925	Collinder 29	Nor	31.85834	-54.5283	20.0'	8.4	01:53	04:17	■	05:06	+0.1011	very challenging
Open	NGC 6025	Collinder 29	TrA	40.82083	-60.4317	14.0'	6.0	23:35	04:40	■	05:18	-2.9770	easy
Open	NGC 6087	Collinder 30	Nor	44.70833	-57.9350	14.0'	6.0	23:52	04:44	■	05:19	-5.8727	easy
Open	NGC 6067	Collinder 29	Nor	43.29585	-54.2183	14.0'	6.5	23:59	04:43	■	05:18	-4.7084	easy
Open	NGC 6152	Collinder 30	Nor	48.18749	-52.6433	25.0'	8.1	02:58	04:46	■	05:08	-8.8135	very challenging
Open	NGC 6208	Collinder 31	Ara	52.36667	-53.7283	18.0'	9.5	00:28	04:47	■	05:18	-12.6519	not visible
Open	NGC 6167	Harvard 11	Nor	48.64167	-49.7717	7.0'	6.6	00:18	04:47	■	05:20	-9.0430	easy
Open	NGC 6134	Collinder 30	Nor	46.94166	-49.1517	6.0'	8.8	01:29	04:47	■	05:14	-7.4313	difficult
Open	NGC 6124	Collinder 30	Sco	46.33334	-40.6533	39.0'	6.3	01:38	04:46	■	05:13	-6.9087	detectable
Glob	NGC 6362		Ara	62.97917	-67.0483	15.0'	8.1	02:55	04:49	■	05:09	-22.9070	challenging
Open	NGC 6231	Collinder 31	Sco	53.54168	-41.8250	14.0'	3.4	00:47	04:49	■	05:24	-13.3433	obvious
Glob	NGC 6397		Ara	65.17500	-53.6733	31.0'	5.3	01:38	04:50	■	05:16	-24.7059	detectable
Open	Harvard 13	OCL 986	Ara	55.96249	-48.0833	5.0'		00:49	04:49	■	05:19	-15.7418	unknown
Open	IC 4651	Collinder 32	Ara	61.20417	-49.9333	10.0'	8.0	01:57	04:51	■	05:14	-20.6472	detectable
Glob	NGC 6352		Ara	61.37083	-48.4233	9.0'	7.8	02:01	04:51	■	05:14	-20.8239	detectable
Glob	Pavo Globula	NGC 6752	Pav	87.71667	-59.9817	29.0'	5.3	02:43	04:53	■	05:15	-46.5304	detectable
Glob	NGC 6584		Tel	74.65833	-52.2150	6.6'	7.9	02:23	04:53	■	05:14	-33.6699	detectable

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Begin	Optimum	End	HA	Difficulty
Glob	NGC 6541		CrA	72.00833	-43.7150	15.0'	6.3	02:10	04:53 ■	05:16	-31.0254	detectable
Dark	Coalsack	DC 300.7-001	Cru	87.82917	-63.7433	16.0'	6.0	-	-	-	+0.1565	not visible
Open	Collinder 29	Harvard 10	Nor	44.70000	-54.9333	25.0'		-	-	-	+0.2083	unknown

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