

Southern Skies Binocular list 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
Open	Collinder 246	Melotte 105	Car	69.92500	-63.4833	5.0'	9.4	7200 ly	19:00	19:14	19:25	25	209	challenging	
Open	IC 2714	Collinder 245	Car	69.36250	-62.7333	14.0'	8.2	4000 ly	19:00	19:14	19:23	25	209	difficult	
Open	NGC 3766	Collinder 248	Cen	74.05833	-61.6083	9.3'	4.6	7200 ly	18:49	19:14	19:40	25	198	obvious	
Open	NGC 4103	Collinder 252	Cru	81.66667	-61.2500	6.0'	7.4	5300 ly	18:54	19:15	20:10	25	198	easy	
Open	NGC 4337	Collinder 254	Cru	86.01666	-58.1233	4.0'	9.8	1600 ly	19:01	19:15	20:07	25	198	challenging	
Open	NGC 4463	Collinder 260	Mus	87.48334	-64.7900	3.5'	8.2	3400 ly	18:54	19:16	20:37	25	209	detectable	
Open	NGC 4052	Collinder 251	Cru	80.25834	-63.2250	9.0'	8.8	3900 ly	19:00	19:16	20:07	25	209	difficult	
Open	NGC 4609	Collinder 263	Cru	90.57500	-62.9950	4.0'	4.5	4000 ly	18:46	19:16	20:46	25	209	obvious	
Open	NGC 4349	Collinder 255	Cru	86.03333	-61.8717	5.0'	8.0	7100 ly	18:54	19:16	20:28	25	198	detectable	
Open	Collinder 258	Harvard 5	Cru	86.81667	-60.7789	5.0'	8.8	3900 ly	18:58	19:16	20:30	25	198	detectable	
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	
Open	NGC 4852	Collinder 266	Cen	95.03750	-59.6133	7.0'	8.9	2200 ly	18:58	19:16	20:50	25	197	difficult	
Glob	NGC 5139	Omega Centauri	Cen	01.69167	-47.4767	55.0'	3.9	16000 ly	18:54	19:16	21:15	21	184	easy	
Gal	NGC 5128	Centaurus A	Cen	01.36555	-43.0187	27.5'x 18.2'	7.8	12.0 Mly	18:58	19:16	20:52	21	184	detectable	
Open	NGC 4815	Collinder 265	Mus	94.49584	-64.9600	5.0'	10.4	10000 ly	18:51	19:17	21:04	25	209	very challenging	
Glob	NGC 5286		Cen	06.61250	-51.3733	11.0'	7.4	39000 ly	18:55	19:17	21:38	21	183	detectable	
Open	NGC 5460	Collinder 280	Cen	11.86250	-48.3433	35.0'	6.1	2200 ly	18:57	19:17	21:33	21	183	detectable	
Glob	NGC 4833		Mus	94.89167	-70.8750	12.7'	8.4	16000 ly	19:00	19:17	20:58	25	209	challenging	
Open	NGC 5316	Collinder 279	Cen	08.48749	-61.8683	14.0'	8.8	4000 ly	19:03	19:17	20:18	25	197	challenging	
Open	NGC 5617	Collinder 282	Cen	17.43333	-60.7117	10.0'	8.5	6500 ly	18:58	19:18	21:40	25	197	detectable	
Open	NGC 5662	Collinder 284	Cen	18.90416	-56.6183	29.0'	7.7	2200 ly	19:02	19:18	20:32	25	197	challenging	
Open	NGC 5823	Melotte 131	Cir	26.37500	-55.6033	12.0'	8.6	3900 ly	18:59	19:19	21:27	25	196	difficult	
Open	NGC 5822	Collinder 289	Lup	26.08750	-54.3967	35.0'	6.5	3000 ly	18:57	19:19	21:59	25	196	detectable	
Open	NGC 5925	Collinder 291	Nor	31.85834	-54.5283	20.0'	8.4		19:02	19:20	20:49	25	196	challenging	
Glob	NGC 6362		Ara	62.97917	-67.0483	15.0'	8.1	23000 ly	19:03	22:52	01:29	26	207	difficult	
Open	NGC 6025	Collinder 296	TrA	40.82083	-60.4317	14.0'	6.0	2500 ly	18:51	22:52	00:06	26	196	easy	
Glob	NGC 6752	Pavo Globular	Pav	87.71667	-59.9817	29.0'	5.3	20000 ly	18:57	22:52	03:12	26	194	easy	
Open	NGC 6087	Collinder 300	Nor	44.70833	-57.9350	14.0'	6.0	2900 ly	18:51	22:52	00:18	26	196	easy	
Open	NGC 6067	Collinder 298	Nor	43.29585	-54.2183	14.0'	6.5	4600 ly	18:53	22:52	00:08	26	196	easy	
Open	NGC 6208	Collinder 313	Ara	52.36667	-53.7283	18.0'	9.5	3100 ly	18:53	22:52	00:44	26	196	very challenging	
Glob	NGC 6397		Ara	65.17500	-53.6733	31.0'	5.3	6500 ly	18:55	22:52	01:36	26	195	easy	
Open	NGC 6152	Collinder 304	Nor	48.18749	-52.6433	25.0'	8.1	3400 ly	22:51	22:52	23:36	26	196	challenging	

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Distance	Begin	Optimum	End	S.A.	Ur. 2	Difficulty	Optimum EP
Glob	NGC 6584		Tel	74.65833	-52.2150	6.6'	7.9	42000 ly	18:55	22:52	■	02:12	26	195	detectable
Open	IC 4651	Collinder 327	Ara	61.20417	-49.9333	10.0'	8.0	2900 ly	18:57	22:52	■	01:16	22	181	detectable
Open	NGC 6167	Harvard 11	Nor	48.64167	-49.7717	7.0'	6.6	3600 ly	18:49	22:52	■	00:25	22	182	easy
Open	NGC 6134	Collinder 303	Nor	46.94166	-49.1517	6.0'	8.8	3000 ly	18:55	22:52	■	00:18	22	182	detectable
Glob	NGC 6352		Ara	61.37083	-48.4233	9.0'	7.8	64000 ly	18:55	22:52	■	01:14	22	181	detectable
Glob	NGC 6541		CrA	72.00833	-43.7150	15.0'	6.3	13000 ly	18:55	22:52	■	01:51	22	181	easy
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
Open	NGC 6124	Collinder 301	Sco	46.33334	-40.6533	39.0'	6.3	1700 ly	18:55	22:52	■	00:04	22	182	detectable
Glob	NGC 104	47 Tucanae	Tuc	6.02083	-72.0817	50.0'	4.0	20000 ly	21:39	03:07	■	05:45	24	204	easy
Gal	NGC 292	Small Magellanic Cl	Tuc	13.15830	-72.8002	5.3°x 3.4°	2.8	200000 ly	22:53	03:35	■	05:43	24	204	easy
Glob	NGC 362		Tuc	15.80833	-70.8483	14.0'	6.8	39000 ly	22:52	03:46	■	05:45	24	204	detectable
Glob	NGC 1261		Hor	48.06667	-55.2167	6.8'	8.3	95000 ly	00:41	05:14	■	05:43	24	202	detectable
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	easy
Neb	NGC 2070	Tarantula Nebula	Dor	84.65000	-69.1000	5.0'	8.3		02:54	05:19	■	05:46	24	212	easy
Glob	NGC 1851		Col	78.52500	-40.0467	12.0'	7.1	55000 ly	03:01	05:21	■	05:44	19	173	detectable

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