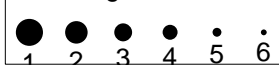


Star Magnitudes



○ Open Cluster

⊛ Globular Cluster

⊙ Planetary Nebula

⊕ Other NGC



Center RA: 16h 48m Dec: -30°18' 2009/07/15 21:00 Width:50°00' Latitude:-29°02'17.4" Longitude:+26°24'20.8"

## Burnham's C.H. - Scorpius Observing List

### Evening of 2009 Aug 15 at Bloemfontein, South Africa

Sunset 17:58, Twilight ends 19:12, Twilight begins 05:27, Sunrise 06:40, Moon rise 03:03, Moon set 12:30  
 Completely dark from 19:12 to 03:03. Waning Crescent Moon. All times local (GMT+2).

Listing All Deep Sky Objects after 18:59 and before 05:02.

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Distance	Rise	Transit	Set	Ur. 2	Difficulty
Glob	M 80	NGC 6093	Sco	16h17m02.0s	-22°58'30"	10.0'	7.3	36000 ly	11:49	18:56	01:59	147	easy
Glob	NGC 6144		Sco	16h27m14.0s	-26°01'18"	7.4'	9.0	33000 ly	11:50	19:06	02:18	147	detectable
Glob	M 4	NGC 6121	Sco	16h23m36.0s	-26°31'30"	36.0'	5.4	9800 ly	11:45	19:02	02:16	147	easy
Glob	NGC 6453		Sco	17h50m52.0s	-34°35'54"	7.6'	10.2	160000 ly	12:49	20:29	04:10	164	challenging
Glob	NGC 6441		Sco	17h50m13.0s	-37°03'06"	9.6'	7.2	29000 ly	12:38	20:29	04:19	164	easy
Glob	NGC 6139		Sco	16h27m40.0s	-38°50'54"	8.2'	9.1	42000 ly	11:04	19:06	03:05	165	detectable
Glob	NGC 6380	Ton 1	Sco	17h34m28.0s	-39°04'12"	3.6'	11.5		12:14	20:13	04:12	164	challenging
Glob	NGC 6496		Sco	17h59m03.0s	-44°15'48"	5.6'	8.6	78000 ly	12:13	20:38	05:03	181	easy
Glob	NGC 6388		Sco	17h36m17.0s	-44°44'06"	10.4'	6.8	42000 ly	11:43	20:15	04:43	181	easy
Open	Tom Thumb Cluster	NGC 6451	Sco	17h50m41.0s	-30°12'36"	7.0'	8.2	6800 ly	13:04	20:29	03:54	164	easy
Open	NGC 6425	OCL 1033	Sco	17h47m01.0s	-31°31'48"	10.0'	9.2	2500 ly	12:56	20:26	03:55	164	detectable
Open	Butterfly Cluster	M 6	Sco	17h40m20.0s	-32°15'12"	20.0'	4.6	1600 ly	12:47	20:19	03:51	164	obvious
Open	NGC 6416	Collinder 344	Sco	17h44m19.0s	-32°21'42"	14.0'	8.7	2400 ly	12:50	20:23	03:55	164	detectable
Open	NGC 6383	Collinder 335	Sco	17h34m48.0s	-32°34'00"	20.0'	5.4	3200 ly	12:40	20:13	03:47	164	obvious
Open	NGC 6404	Collinder 340	Sco	17h39m37.0s	-33°14'48"	5.0'	10.6		12:43	20:18	03:54	164	difficult
Open	M 7	NGC 6475	Sco	17h53m51.0s	-34°47'36"	80.0'	3.3	980 ly	12:51	20:32	04:14	164	obvious
Open	Collinder 355	Harvard 18	Sco	17h56m46.0s	-35°16'00"	7.0'	8.8	2000 ly	12:52	20:35	04:19	164	easy
Open	NGC 6334		Sco	17h20m49.0s	-36°06'12"	20.0'		7500 ly	12:13	19:59	03:46	164	unknown
Open	Harvard 16	OCL 1012	Sco	17h31m12.0s	-36°48'00"	14.0'			12:20	20:10	03:59	164	unknown
Open	NGC 6400	Collinder 342	Sco	17h40m12.0s	-36°56'54"	12.0'	8.8	3300 ly	12:29	20:19	04:09	164	detectable
Open	NGC 6281	Collinder 324	Sco	17h04m41.0s	-37°59'06"	8.0'	8.4	1600 ly	11:45	19:43	03:38	164	easy
Open	Collinder 329	Harvard 14	Sco	17h24m29.0s	-39°01'00"	8.0'	11.7		12:04	20:03	04:02	164	not visible
Open	NGC 6318	Collinder 325	Sco	17h16m11.0s	-39°25'30"	4.0'	11.8	7500 ly	11:50	19:55	03:55	164	challenging
Open	NGC 6242	Collinder 317	Sco	16h55m33.0s	-39°27'42"	9.0'	8.2	3700 ly	11:30	19:34	03:35	164	easy
Open	NGC 6268	Collinder 323	Sco	17h02m10.0s	-39°43'42"	6.0'	9.5	3400 ly	11:35	19:41	03:43	164	detectable

Cls	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Size	Mag	Distance	Rise	Transit	Set	Ur. 2	Difficulty
Open	Collinder 343	Harvard 17	Sco	17h41m31.0s	-40°09'00"	12.0'	7.5	1600 ly	12:16	20:20	04:24	164	easy
Open	NGC 6124	Collinder 301	Sco	16h25m20.0s	-40°39'12"	39.0'	6.3	1700 ly	10:54	19:04	03:10	182	detectable
Open	Collinder 318	Harvard 12	Sco	16h57m00.0s	-40°40'00"	60.0'	8.6	3700 ly	11:25	19:36	03:42	181	not visible
Open	NGC 6231	Collinder 315	Sco	16h54m10.0s	-41°49'30"	14.0'	3.4	4100 ly	11:17	19:33	03:45	181	obvious
Open	NGC 6322	Collinder 326	Sco	17h18m25.0s	-42°56'00"	5.0'	6.5	3200 ly	11:35	19:57	04:15	181	obvious
Open	NGC 6192	Collinder 309	Sco	16h40m23.0s	-43°22'00"	9.0'	8.5	5000 ly	10:55	19:19	03:39	182	detectable
Open	NGC 6259	Collinder 322	Sco	17h00m45.0s	-44°39'18"	14.0'	8.6	3400 ly	11:08	19:40	04:07	181	detectable
Open	NGC 6222		Sco	16h50m42.0s	-44°45'00"	20.0'			10:58	19:29	03:57	181	unknown
Open	NGC 6178	Collinder 308	Sco	16h35m47.0s	-45°38'36"	5.0'	7.2	3300 ly	10:38	19:15	03:48	182	obvious
Neb	IC 4592	LBN 1113	Sco	16h12m00.0s	-19°28'00"	60.0'			11:53	18:51	01:45	147	unknown
PNe	NGC 6072	PN G342.1+10.8	Sco	16h12m58.1s	-36°13'46"	50"	14.0	3600 ly	11:01	18:52	02:39	165	very challenging
PNe	Bug Nebula	NGC 6302	Sco	17h13m44.2s	-37°06'16"	1.2'	12.8	1800 ly	12:02	19:52	03:43	164	challenging
PNe	NGC 6337	He 2-215	Sco	17h22m15.7s	-38°29'03"	38"	12.3	4500 ly	12:05	20:01	03:57	164	detectable
PNe	NGC 6153	He 2-167	Sco	16h31m30.8s	-40°15'14"	25"	11.5	4300 ly	11:02	19:10	03:15	165	easy
PNe	IC 4637	He 2-193	Sco	17h05m10.5s	-40°53'08"	21"	13.5	5700 ly	11:33	19:44	03:51	181	detectable
PNe	IC 4663	He 2-273	Sco	17h45m28.4s	-44°54'16"	14"	13.0	10000 ly	11:52	20:24	04:53	181	detectable
Gal	LEDA 91336		Boo	14h07m10.9s	+26°58'31"	41"x 8"	17.7		11:39	16:46	21:50	70	not visible

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