

WINTER 1

Catalogue	Date	Type	Mag	Size	Comments
ERIDANUS					
NGC1084 <i>SB(rs)bc</i>	Dec 1	GX	10.7 <i>12.5</i>	3.2'x1.9'	R02:46.0 D-07:35
NGC1187	Dec 5	GX	10.7 <i>13.5</i>	5.2'x3.0'	R03:02.6 D-22:52
NGC1232	Dec 7	GX	10.0 <i>13.8</i>	6.8'x5.6'	R03:09.8 D-20:35
h3565	Dec 10	D*	5.7 8.2	F2 V 8"	R03:18.7 D-18:33 SAO148897
NGC1300	Dec 10	GX	10.4 <i>13.3</i>	5.5'x2.9'	R03:19.7 D-19:25
NGC1309 <i>SB(s)c</i>	Dec 11	GX	11.5 <i>12.5</i>	1.7'	R03:22.1 D-15:24
NGC1332	Dec 11	GX	10.5 <i>12.7</i>	5.0'x1.8'	R03:26.3 D-21:20
NGC1395	Dec 15	GX	9.7 <i>13.0</i>	5.4'x4.6'	R03:38.5 D-23:02
NGC1400 <i>E0</i>	Dec 15	GX	11.1 <i>13.0</i>	2.8'x2.5'	R03:39.5 D-18:41
NGC1407 <i>E0</i>	Dec 15	GX	9.8 <i>13.4</i>	6'x 6'	R03:40.2 D-18:35
NGC1421 <i>Sbc</i>	Dec 16	GX	11.4 <i>12.5</i>	3.1'x1.0'	R03:42.5 D-13:29
NGC1461 <i>SB(r)0</i>	Dec 17	GX	11.8 <i>12.3</i>	2.3'x0.8'	R03:48.5 D-16:24
32 Eridani Struve 470	Dec 19	D*	4.7 6.2	G8 III 7" A2V	R03:54.3 D-02:58 SAO130805 350ly yellow, green
NGC1531 NGC1532	Dec 22	GX GX	12.1 9.9	1.3'x0.8' 11.2'x3.2'	R04:12.0 D-32:51 R04:12.1 D-32:52
NGC1537	Dec 23	GX	10.6 <i>13.0</i>	4.0'x2.6'	R04:13.7 D-31:39
NGC1535	Dec 23	PN	9.3 *11	18"	R04:14.2 D-12:44
39 Eridani Struve516	Dec 23	D*	5.0 8.0	K3 III 6.4"	R04:14.4 D-10:15 SAO149478
o-Eridani Struve518	Dec 23	T*	4.4 9.7 11.1	K1 V 84" DA BC 4" M4	R04:15.3 D-07:39 SAO131063 16ly
NGC1600 <i>SA(s)0</i>	Dec 27	GX	10.9 <i>12.1</i>	2.3'x1.5'	R04:31.7 D-05:05
NGC1637 <i>SAB(rs)bc</i>	Dec 30	GX	10.8 <i>13</i>	3.2'x2.6'	R04:41.5 D-02:51
55 Eridani Struve3409	Dec 31	D*	6.7 6.8	F4 III 9.2" G8III	R04:43.6 D-08:48 SAO131443
NGC1700 <i>E3</i>	Jan 4	GX	11.2 <i>12.8</i>	2.9'x1.7'	R04:56.9 D-04:52
NGC1699		GX	12.9	0.9'x0.6'	R04:57.0 D-04:45
IC2118	Jan 6	BN		180x60'	R05:06.9 D-07:13 Witch Head Nebula

WINTER 2

Catalogue	Date	Type	Mag	Size	Comments
CAMELOPARDALIS					
Stock 23	Dec 9	OC	5.6	14'	R03:16.3 D+60:02
Struve390	Dec 12	D*	5.1 9.5	A2V 14.8"	R03:30.0 D+55:27 SAO024064
NGC1569 <i>IBm</i>	Dec 12	GX	11.0 <i>12.8</i>	3.0'x1.9'	R04:30.8 D+64:51
IC342 <i>SAB(rs)cd</i>	Dec 16	GX	8.4 <i>15.0</i>	18'x18'	R03:46.8 D+68:06 Caldwell 5 11Mly
NGC1501	Dec 21	PN	11.5 *14	52"	R04:07.0 D+60:55 4,200ly
NGC1502	Dec 21	OC	5.7 *6.9	8'	R04:07.7 D+62:20 2,700ly
Struve 484	Dec 21	D*	9.0 9.5	5.4"	R04:07.4 D+62:23
Struve 485	Dec 21	D*	6.1 6.2	B0 II 18" B0 II	R04:07.9 D+62:20 SAO013031
1 Camelop. Struve550	Dec 28	D*	5.7 6.8	B0 III 10.3"	R04:32.0 D+53:55 SAO024672
β -Camelop. 10-Cam	Jan 5	T*	4.0 8.6 11.2	G0 Ib 80" A5 14.8" BC	R05:03.4 D+60:27 SAO013351
11 Camelop.	Jan 6	D*	5.4 6.5	B2.5Ve 108" K0	R05:06.1 D+58:58 SAO025001
NGC1961 <i>SAB(rs)c</i>	Jan 15	GX	11.0 <i>13.9</i>	4.3'x3.0'	R05:42.1 D+69:23
29 Camelop.	Jan 17	D*	6.5 9.5	A4IV-V 25"	R05:50.6 D+56:55 SAO025403
NGC2146 <i>SB(s)ab</i>	Jan 24	GX	10.6 <i>13.9</i>	5.4'x4.5'	R06:18.7 D+78:21
NGC2403 <i>SAB(s)cd</i>	Feb 12	GX	8.4 <i>14.6</i>	25'x13'	R07:36.9 D+65:36
Struve1122	Feb 15	D*	7.8 7.8	F2 15.4"	R07:45.9 D+65:09 SAO014311
NGC2655 <i>SAB(s)0</i>	Mar 6	GX	10.1 <i>13.7</i>	6.0'x5.3'	R08:55.6 D+78:13

WINTER 3

Catalogue	Date	Type	Mag	Size	Comments
TAURUS					
Struve422	Dec 14	D*	5.9 8.8	G8V 6.6"	R03:36.8 D+00:35 SAO111291
M45	Dec 17	OC	1.2 *2.9	110'	R03:47.0 D+24:07 Pleiades
30 Tauri Struve452	Dec 17	D*	5.1 10.2	B3V 9.0" F5V	R03:48.3 +11:09 SAO093611
Struve495	Dec 21	D*	6.0 8.8	F3V 3.8"	R04:07.7 D+15:10 SAO093775
NGC1514	Dec 22	BN	10.0	2'	R04:09.2 D+30:47 Hind Variable Neb.
φ-Tauri h40	Dec 25	D*	5.0 8.4	K1III 52"	R04:20.4 D+27:21 SAO076558
T-Tauri	Dec 26	V*	8.4 – 13.5	F8Ve- K1IV-Ve	R04:22.0 D+19:32
Hyades	Dec 27	OC	0.5 *3.4	330'	R04:27.0 D+16:00 150ly
θ-Tauri	Dec 27	D*	3.4 3.8	A7III 337" A7III	R04:29.0 D+15:52 SAO093955 150ly
NGC1647	Dec 31	OC	6.4	40'	R04:45.9 D+19:08 1,800ly
NGC1750	Jan 6	OC	6.1	40'	R05:03.8 D+23:39 2,100ly
NGC1807	Jan 7	OC	7.0 *8.6	17'	R05:10.7 D+16:32
NGC1817	Jan 8	OC	7.7 *11	16'	R05:12.1 D+16:42
M1	Jan 14	SR	8	6x4'	R05:34.5 D+22:01 6,300ly Crab Nebula RM

WINTER 4

Catalogue	Date	Type	Mag	Size	Comments
ORION					
NGC1662	Jan 1	OC	6.4	20'	R04:48.5 D+10:56
NGC1663	Jan 1	OC			R04:48.6 D+13:10
Struve 630	Jan 5	D*	6.5 7.7	B8V 15"	R05:02.0 D+01:36 SAO112340
W Orionis	Jan 6	*	5.9		R05:05.4 D+01:11 SAO 112406 Carbon star
NGC1662	Jan 1	OC	6.4 *8.3	20'	R04:48.5 D+10:56
NGC1788	Jan 6	RN		8'	R05:06.9 D-03:21
β-Orionis Struve668	Jan 8	D*	0.1 6.8	B8I 9.5" B5V	R05:14.5 D-08:12 Rigel 900ly
δ-Orionis	Jan 13	D*	2.0 6.9	O9.5 II 53" B2V	R05:32.0 D-00:18 Mintaka 1,400ly
λ-Orionis	Jan 14	D*	3.5 5.6	O8III 4.4" B0V	R05:35.1 D+09:56 SAO112921 900ly
Struve 747	Jan 14	D*	4.8 5.7	B0.5V 36" B1V	R05:35.0 D-06:00 SAO0132301 1,500ly
NGC1973,5,7	Jan 14	BN	5	20'x10'	R05:35.1 D-04:44 RM 1,500ly
NGC1981	Jan 14	OC	4.6	25'	R05:35.2 D-04:26 1,500ly
θ ¹ -Orionis	Jan 14	M* OC?	6.7 7.9 5.1 6.4 11.1 11.5	O7 8.8" B0V 13" O6 21" B0V 4.9" B0V CF 4" O6	R05:35.3 D-05:23 1,500ly Trapezium
M42/M43	Jan 14	BN	4-7	66'	R05:35.4 D-05:27 Orion Nebula RM 1,500ly
ι-Orionis 44-Ori	Jan 14	T*	2.8 7.3 11	O9 III 11" B7 III 50"	R05:35.4 D-05:55 SAO132323 1,500ly Struve747 D* in the field
NGC1999	Jan 15	BN		2'	R05:36.5 D-06:42
σ-Orionis 48-Ori	Jan 15	Q*	3.8 10.3 7.2 6.5	O9.5 V 11" B2V 13" B2V 42"	R05:38.7 D-02:36 SAO132406 1,200ly Struve761 T* in the field
IC434 / B33	Jan 15	BN		60'	R05:41.0 D-02:24 Horsehead Neb.
ζ-Orionis 50-Ori	Jan 15	T*	1.9 4.0 9.9	O9.5 Ib 2.3" B0 III 56.7"	R05:40.8 D-01:57 Alnitak 1,400ly
NGC2023 NGC2024	Jan 15	BN		30'	R05:41.6 D-02:14 Around Alnitak 1,500ly
NGC2022	Jan 15	PN	11.9	18" *15	R05:42.1 D+09:05 RM
NGC2071	Jan 16	BN	8	7'	R05:47.4 D+00:18 RM 1,500ly
M78	Jan 16	BN	8	8'x6'	R05:46.7 D+00:03 RM reflection 1,500ly
Sh2-276 Barnard's sp.	Jan 18	BN		420x60'	R05:54.3 D-01:00 1,500ly
α-Orionis	Jan 19	V*	0.4 – 1.3	M2 lab	R05:55.2 D+07:24 Betelgeuse

WINTER 5

Catalogue	Date	Type	Mag	Size	Comments
ORION					
NGC2169	Jan 22	OC	5.9 *6.9	7'	R06:08.5 D+13:57 3,400ly
NGC2174	Jan 22	OC	8.7	4'	R06:09.7 D+20:40 RM
NGC2175	Jan 22	OC	6.8	20'	R06:09.9 D+20:29 RM 5,300ly
NGC2186	Jan 23	OC	6.8	20'	R06:12.4 D+05:27 RM
LEPUS					
R Leporis	Jan 5	V*	5.5- 11.7		R04:59.6 D-14:48 Carbon star
h3750	Jan 10	D*	4.7 8.4	A0 4.2''	R05:20.4 D-21:14 Yellow-white and blue
h3752	Jan 10	D*	5.4 6.6	G0 3.2'' A3	R05:21.8 D-24:46
M79	Jan 11	GC	7.8	8.7'	R05:24.5 D-24:33
IC418	Jan 12	PN	9.3	12''	R05:27.5 D-12:42
NGC1964	Jan 13	GX	10.7 <i>13.1</i>	5.0'x2.1'	R05:33.4 D-21:57
h3780 NGC2017	Jan 14	M*	8.0		R05:39.4 D-17:51 8 stars
γ -Lep 13-Lep	Jan 16	D*	3.7 6.3	F8 96'' G5	R05:44.5 D-22:27

WINTER 6

Catalogue	Date	Type	Mag	Size	Comments
AURIGA					
ω -Aurigae Struve616	Jan 5	D*	5.0 8.0	A1V 5.4"	R04:59.3 D+37:53 SAO057548
5 Aurigae OStruve92	Jan 5	D*	6.0 9.7	F5V 3.7"	R05:00.3 D+39:24 SAO057559
Struve644	Jan 7	D*	6.8 7.0	B2II 1.6" K3	R05:10.3 D+37:18 SAO057704
14 Aurigae Struve653	Jan 9	D*	5.1 7.4	A9IV 14.6" F2	R05:15.4 D+32:31 SAO057799
NGC1857	Jan 10	OC	7.0 *7.4	5"	R05:20.2 D+39:21
NGC1893	Jan 10	OC	7.5 *9.3	10"	R05:22.7 D+33:24 Assoc IC410 BN
Struve698	Jan 11	D*	6.6 8.7	K2III 31" K	R05:25.2 D+34:51 SAO057998
NGC1907	Jan 12	OC	8.2 *11	6"	R05:28.0 D+35:19 4,500ly
M38	Jan 12	OC	6.4 *9.5	21"	R05:28.7 D+35:50 4,300ly
NGC1931	Jan 12	BN		4"	R05:31.4 D+34:15
M36	Jan 13	OC	6.0 *8.7	12"	R05:36.1 D+34:08 4,000ly
26 Aurigae Struve1240	Jan 14	D*	6.0 8.0	F9III 12.4" B9.5V	R05:38.6 D+30:30 SAO58280
M37	Jan 17	OC	5.6 *9.2	24"	R05:52.4 D+32:33 4,400ly
θ -Aurigae OStruve545	Jan 20	D*	2.7 7.2	A0IIpSi 3.5" G2V	R05:59.7 D+37:13 SAO58636 110ly lilac, yellow
41 Aurigae Struve845	Jan 22	D*	6.3 7.0	A3V 7.7" A8V	R06:11.6 D+48:43 SAO40925
Struve872	Jan 24	D*	6.9 7.9	F0 11.3" F4IV	R06:15.9 D+36:09 SAO58905
OStruve147	Jan 28	T*	6.6 10.0 10.6	K0 43" 46"	R06:34.3 D+38:05 SAO59234
Struve928	Jan 28	D*	7.6 8.2	F5 3.5"	R06:34.7 D+38:32
Struve929	Jan 28	D*	7.2 8.3	G5 6"	R06:35.4 D+37:43 SAO59259
ψ^5 -Aurigae h75	Jan 31	D*	5.3 8.3	G0V 36"	R06:46.7 D+43:35 SAO41330
NGC2281	Feb 1	OC	6.7 *7.3	0.3°	R06:49.3 D+41:04

WINTER 7

Catalogue	Date	Type	Mag	Size	Comments
GEMINI					
NGC2129	Jan 20	OC	6.7 *7.4	7'	R06:01.0 D+23:18
NGC2158	Jan 22	OC	8.6 *12	5'	R06:07.5 D+24:06 12,000ly
M35	Jan 22	OC	5.1 *8.2	28'	R06:08.9 D+24:30
OStruve 134	Jan 22	D*	7.6 9.1	G0 31"	R06:09.3 D+24:36 2,700ly
15 Gemin. h70	Jan 26	D*	6.6 8.0	K0 27"	R06:27.8 D+20:47 SAO78395
20 Gemin. Struve924	Jan 27	D*	6.3 6.9	F6IV-V 20"	R06:32.3 D+17:47
NGC2266	Jan 31	OC	9.5	6'	R06:43.2 D+26:58 11,000ly
38 Gemin. Struve982	Feb 2	D*	4.7 7.7	F0V 7"	R06:54.6 D+13:11 SAO96265
NGC2331	Feb 5	OC	8.5 *9	18'	R07:07.2 D+27:21
λ -Gemin. Struve1061	Feb 8	D*	3.6 10.7	A3V 9.6"	R07:18.1 D+16:32 SAO96746
δ -Gemin. Struve1066	Feb 9	D*	3.5 8.2	F0 IV 5.8" KIIIV	R07:20.1 D+21:59 SAO79294 59ly yellow, red
NGC2395	Feb 10	OC	8.0 *10	12'	R07:27.1 D+13:35
NGC2392	Feb 11	PN	9.2 *10	13"	R07:29.2 D+20:55 Eskimo RM 3,800ly
Struve1108	Feb 12	D*	6.6 8.3	G5 11.5"	R07:32.8 D+22:53 SAO79489
α -Gemin. Struve1110	Feb 13	T*	2.0 2.9 9.5	A0V 4" A0V 73" M0V	R07:34.6 D+31:53 Castor RM 52ly
κ -Gemin. OStruve179	Feb 15	D*	3.6 8.1	G8III 7"	R07:45.1 D+28:01 SAO79653

WINTER 8

Catalogue	Date	Type	Mag	Size	Comments
MONOCEROS					
NGC2149	Jan 21	BN		3'x2'	R06:03.5 D-09:44
NGC2170	Jan 22	BN		2'	R06:07.5 D-06:24
NGC2182	Jan 22	BN		3'	R06:09.5 D-06:20
NGC2183	Jan 22	BN		1'	R06:10.8 D-06:13
NGC2185	Jan 22	BN		3'	R06:11.1 D-06:13
8 Mon. ε-Mon	Jan 26	D*	4.4 6.6	A5IV 12.5" F5V	R06:23.8 D+04:36 SAO113810 Gold, blue
NGC2232	Jan 26	OC	3.9 *5.0	30'	R06:26.6 D-04:45
β-Mon 11-Mon	Jan 27	Q*	4.7 5.2 6.1 12.2	B3Ve 3" B3 10" B3 26"	R06:28.8 D-07:01 SAO133316 700ly 2.8" BC
NGC2237-9	Jan 27	BN		80'x60'	R06:30.3 D+05:03 around NGC2244 Rosette Nebula RM
NGC2244	Jan 27	OC	4.8 *5.8	24'	R06:32.4 D+04:52
NGC2245	Jan 27	RN		5'	R06:32.7 D+10:10
NGC2247	Jan 27	RN		6'	R06:33.2 D+10:20
NGC2251	Jan 2	OC	7.3 *9.1	10'	R06:34.7 D+08:22
NGC2252	Jan 27	OC	7.7 *9.0	18'	R06:35.0 D+05:23
NGC2261	Jan 30	BN	10	1'x2'	R06:39.2 D+08:44 Hubble Variable Nebula RM
NGC2264	Jan 30	OC BN	3.9 *4.6	20'	R06:41.1 D+09:53 Cone Nebula Christmas Tree Cluster RM
NGC2301	Feb 1	OC	6.0 *8.0	12'	R06:51.8 D+00:28
M50	Feb 4	OC	5.9 *7.8	16'	R07:03.2 D-08:20 3,000ly
NGC2353	Feb 7	OC	7.1 *9.2	20'	R07:14.6 D-10:18
NGC2506	Feb 20	OC	7.6 *10	6'	R08:00.2 D-10:47

WINTER 9

Catalogue	Date	Type	Mag	Size	Comments
CANIS MAJOR					
NGC2207	Jan 24	GX	10.8 <i>13.3</i>	4.8'x2.4'	R06:16.4 D-21:22
NGC2217	Jan 25	GX	10.2 <i>13.4</i>	5.0'x4.5'	R06:21.7 D-27:14
v-CMa 6-CMa	Jan 28	D*	5.8 8.5	G5 17" G0	R06:36.4 D-18:40
NGC2280	Jan 31	GX	10.5 <i>13.5</i>	6.3'x2.8'	R06:44.8 D-27:38 RM
α-CMa	Jan 31	D*	-1.5 8.5	A1V DA	R06:45.1 D-16:43 Sirius 8.6ly RM
M41	Jan 31	OC	4.5	38'	R06:47.0 D-20:44 RM
NGC2292	Jan 31	GX	10.8	4.2'x2.3'	R06:47.6 D-26:45
NGC2293		GX	10.7	4.3'x3.0'	R06:47.7 D-26:45
17 CMa	Feb 2	T*	5.8 9.3 9.0	A2 44" K5 50"	R06:55.0 D-20:24
π-CMa	Feb 2	D*	4.7 9.7	11.6"	R06:55.6 D-20:08
μ-CMa Struve997	Feb 2	D*	5.3 8.6	3.0"	R06:56.1 D-14:03
NGC2345	Feb 5	OC	7.7 <i>*10</i>	12'	R07:08.3 D-13:10
Sh 2-301	Feb 6	BN	-	8'x7'	R07:09.8 D-18:29
NGC2354	Feb 7	OC	8.9	20'	R07:14.5 D-25:44 RM
h 3945	Feb 8	D*	4.8 6.8	K3I F0	R07:17.0 D-23:19 Winter Albireo
NGC2359	Feb 8	BN		8'	R07:17.8 D-13:13 Thor's Helmet RM
NGC2360	Feb 8	OC	7.2 <i>*10</i>	13'	R07:17.8 D-15:37
NGC2362	Feb 9	OC	4.1	8'	R07:18.8 D-24:64 RM
τ-CMa h3948	Feb 9	D*	4.4 10.5	O9 8.2"	R07:18.7 D-24:57
NGC2383	Feb 10	OC	8.4	6'	R07:24.8 D-20:56
NGC2384		OC	7.4	2.5'	R07:25.1 D-21:02
CANIS MINOR					
Struve1095	Feb 10	D*	8.4 8.9	A2 10"	R07:27.4 D+08:45
Struve1103	Feb 11	D*	7.7 9.2	B9 4.4"	R07:30.6 D+05:15
Struve1149	Feb 16	D*	7.9 9.6	G0 22"	R07:49.5 D+03:13 SAO115981

WINTER 10

Catalogue	Date	Type	Mag	Size	Comments
PUPPIS					
M47	Feb 13	OC	4.4 *5.7	29'	R07:36.6 D-14:30 RM 1,600ly
NGC2423	Feb 13	OC	6.7 *9.0	19'	R07:37.1 D-13:52 2,400ly
Melotte 71	Feb 13	OC	7.1 *10	9'	R07:37.5 D-12:04
κ-Pup Δ535	Feb 14	D*	4.5 4.7	B5 9.9" B8	R07:38.8 D-26:48
NGC2439	Feb 14	OC	6.9	10'	R07:40.8 D-31:39
M46	Feb 14	OC	6.1 *8.7	27'	R07:41.8 D-14:49 RM 4,500ly
NGC2438		PN	11.0	66"	R07:41.8 D-14:44 2,900ly?
NGC2440	Feb 14	PN	9.4	32"	R07:41.9 D-18:13
M93	Feb 15	OC	6.2	22'	R07:44.6 D-23:52 RM
NGC2452	Feb 15	PN	12.0	19"	R07:47.4 D-27:20
NGC2453		OC	8.3	5'	R07:47.8 D-27:14
NGC2467 Sh2 -311	Feb 17	OC BN	7.1	14' 16'x12'	R07:52.5 R-26:24
NGC2482	Feb 18	OC	7.3	12'	R07:54.9 D-24:18
NGC2479	Feb 18	OC	9.6	7'	R07:55.1 D-17:43
NGC2489	Feb 19	OC	7.9	6'	R07:56.2 D-30:04
NGC2509	Feb 20	OC	9.3	8'	R08:00.7 D-19:04
NGC2527	Feb 21	OC	6.5	16'	R08:05.3 D-28:10
h4046	Feb 21	D*	6.0 8.4	G5 22" A	R08:05.7 D-33:34
NGC2533	Feb 21	OC	7.6	10'	R08:07.0 D-29:54
NGC2539	Feb 22	OC	6.5 *9.2	21'	R08:10.7 D-12:50
NGC2567	Feb 24	OC	7.4	10'	R08:18.6 D-30:38
NGC2571	Feb 24	OC	7.0	30'	R08:18.9 D-29:44