

# FALL 1

Catalogue	Date	Type	Mag	Size	Comments
<b>CEPHEUS</b>					
NGC6939	Aug 28	OC	7.8 *12	8'	R20:31.4 D+60:38 3,900ly
NGC6946 <i>SAB(rs)cd</i>	Aug 29	GX	8.9 14.2	11'	R20:34.8 D+60:09 19Mly
NGC7023	Sep 5	OC	7.0 *12	18'	R21:00.5 D+68:10 With nebulosity
Struve440	Sep 12	D*	6.4 10.7	11''	R21:27.4 D+59:45
$\beta$ -Cepheii Struve2806	Sep 12	D*	3.2 7.9	B1IV 13'' A2V	R21:28.7 D+70:34 SAO10057 600ly green-white, blue
Struve2816	Sep 15	T*	5.6 7.7 7.8	O6 12'' 20''	R21:39.0 D+57:29 SAO33626 1,000ly
IC1396	Sep 15	OC	3.5 *3.8	50'	R21:39.1 D+57:30 with embedded neb. 1,200ly
$\mu$ -Cepheii	Sep 16	*	4.1	M2Ia	R21:43.5 D58:47 SAO33693 Garnet Star 3,000ly?
Struve2840	Sep 18	D*	5.5 6.6	B6IV 18'' A1	R21:52.0 D+55:48 SAO33817 600ly
NGC7160	Sep 18	OC	6.1 *7.0	7'	R21:53.7 D+62:36 2,600ly
$\xi$ -Cepheii Struve2863	Sep 21	T*	4.3 6.5 12.7	A3V 8'' F7 97''	R22:03.8 D+64:38 SAO19827 80ly
NGC7235	Sep 23	OC	7.7 *8.8	4'	R22:12.6 D+57:17 9,200ly
NGC7231	Sep 26	OC	8.4 *9.6	5'	R22:20.4 D+58:05
$\delta$ -Cepheii 27-Cepheii	Sep 28	D*	4.0v 6.3	F5I-G11 41'' B7	R22:29.2 D+58:25 SAO34508 1,300ly orange, blue 5.4days var
NGC7380	Oct 2	OC	6.4	10'	R22:47.0 D+58:06 D* SW edge 7.6, 8.6 7,200ly
NGC7510	Oct 8	OC	7.9 *9.7	4'	R23:11.5 D+60:34 6,800ly
NGC40	Nov 2	PN	10.7 *11	36''	R00:13.0 D+72:32

Catalogue	Date	Type	Mag	Size	Comments
<b>CAPRICORNUS</b>					
NGC6907	Aug 27	GX	11.1 13.1	3.2'x2.3'	R20:25.1 D-24:49
10 Cap $\pi$ -Cap	Aug 27	D*	5.3 8.9	3.2	R20:27.3 D-18:13
12 Cap o-Cap	Aug 28	D*	6.1 6.6	22''	R20:29.9 D-18:35
<b>M30</b>	Sep 15	GC	7.5	11'	R21:40.4 D-23:11 <b>RM</b> 27,000ly

## FALL 2

Catalogue	Date	Type	Mag	Size	Comments
<b>PEGASUS</b>					
<b>M15</b>	Sep 12	GC	6.4	12'	R21:30.0 D+12:10 <b>RM</b> 34,000ly
$\epsilon$ -Pegasi Enif	Sep 16	D*	2.4 8.5	K2Ib 143''	R21:44.2 D+09:52 SAO127029 800ly
Struve 2841	Sep 19	D*	6.4 7.9	K0III 22'' F7V	R21:54.3 D+19:43 SAO107489
Struve 2848	Sep 20	D*	7.2 7.5	F2V 11''	R21:58.0 D+05:56 SAO127196
NGC7217 (R)SA(r)ab	Sep 23	GX	10.2 12.5	4x3'	R22:07.9 D+31:22
Struve 2877	Sep 24	D*	6.5 9.7	K4IV 13''	R22:14.3 D+17:11 SAO107756
Stephen's Quintet NGC7317-20	Sep 30	GX clust	12	3.2'	R22:36.2 D+33:59 <b>RM</b>
NGC7331 SA(s)b	Sep 30	GX	9.5 13.3	11'x4'	R22:37.1 D+34:25 <b>RM</b> 49Mly
NGC7332 SO	Sep 30	GX	11.1 13.4	3.7x1.0'	R22:37.4 D+23:48
NGC7339 SAB(s)bc			12.2 12.9	2.6'x0.8'	R22:37.8 D+23:47
NGC7457 SA(RS)0	Oct 6	GX	11.2 13.6	4.4'x2.5'	R23:01.0 D+30:09
NGC7479 SB(s)c	Oct 7	GX	10.8 13.4	4.0'x3.1'	R23:04.9 D+12:19
57 Pegasi	Oct 8	D*	5.7 9.7	M4III 33'' A2V	R23:09.5 D+08:41 SAO128001
NGC7619 E	Oct 11	GX	11.1 13.0	2.8'x2.5'	R23:20.2 D+08:12 Pegasus Gr I
NGC7626 E	Oct 11	GX	11.1 12.6	2.4'x1.9'	R23:20.7 D+08:13 Pegasus Gr I
Struve 3007	Oct 11	D*	6.6 9.6	G2V 6''	R23:22.8 D+20:34
NGC7814 SA(s)ab	Oct 21	GX	10.6 13.4	6.0'x2.5'	R00:03.3 D+16:09

## FALL 3

Catalogue	Date	Type	Mag	Size	Comments
<b>CASSIOPEA</b>					
2-Cas	Oct 8	Q*	5.7 13.5 8.1 8.9	A5III 20'' 167'' 163''	R23:09.8 D+59:20 SAO35186  CD 276''
<b>M52</b>	Oct 12	OC	6.9 *8.2	13'	R23:24.2 D+61:35 <b>RM</b> 4,600ly
NGC7789	Oct 21	OC	6.7 *11	13'	R23:57.0 D+56:44 <b>RM</b> 7,600ly
NGC7788	Oct 21	OC	9.4	9'	R23:56.7 D+61:24 7,700ly
NGC7790		OC	8.5 *11	17'	R23:58.4 D+61:13 10,800ly
$\sigma$ -Cas Struve3049	Oct 21	D*	5.0 7.1	B1V 3'' B3V	R23:59.0 D+55:45 SAO35947 1,400ly blue, green
Struve3053	Oct 21	D*	5.9 7.3	G9III 15'' A1V	R00:02.6 D+66:06 SAO10938
NGC129	Oct 28	OC	6.5 *8.6	20'	R00:29.9 D+60:14 <b>RM</b> 6,600ly
NGC133	Oct 28	OC	9.0	7'	R00:31.2 D+63:22 <b>RM</b> 2,100ly
King14	Oct 28	OC	8.5	7'	R00:32.1 D+63:11 <b>RM</b> 8,500ly
NGC146	Oct 28	OC	9.1 *12	7'	R00:33.1 D+63:18 <b>RM</b> 9,900ly
NGC147	Oct 28	GX	9.4	13'x8'	R00:33.5 D+48:33 M31 satellite
NGC185	Oct 31	GX	9.3	8'x7'	R00:39.3 D+48:22 M31 satellite
NGC189	Oct 31	OC	11.1	3.7'	R00:39.8 D+61:06 <b>RM</b>
$\alpha$ -Cas Schedar	Nov 1	D*	2.2 8.9	K0III 64''	R00:40.5 D+56:32 SAO21609
NGC225	Nov 1	OC	7.0	12'	R00:43.4 D+61:47 <b>RM</b> 1,700ly
$\eta$ -Cas Struve60	Nov 2	D*	3.6 7.5	G0V 13'' M0V	R00:49.1 D+57:49 SAO21732 Achird 19ly 580yr yellow, purple
NGC278 <i>SAB(rs)b</i>	Nov 2	GX	10.8 12.8	2.6'x2.6'	R00:52.1 D+47:33
NGC281	Nov 2	BN		39x30'	R00:52.8 D+56:37 9,600ly
NGC381	Nov 6	OC	9.3 *10	6'	R01:08.3 D+61:35 3,100ly
NGC436	Nov 8	OC	8.8	5.0	R01:15.6 D+58:49 <b>RM</b> 9,800ly
NGC457	Nov 10	OC	6.4	13'	R01:16.2 D+33:04 8,000ly
E.T.	Nov 11	OC	7.0	13'	R01:19.3 D+58:22 <b>RM</b>
NGC559	Nov 12	OC	9.5 *10	4.4'	R01:29.5 D+63:18

## FALL 4

Catalogue	Date	Type	Mag	Size	Comments
<b>CASSIOPEA</b>					
<b>M103</b>	Nov 12	OC	7.4 *10	6'	R01:33.2 D+60.42 <b>RM</b> 8,000ly
Trumpler 1	Nov 14	OC	8.1 *9.5	4.5'	R01:35.7 D+61:17 <b>RM</b>
NGC637	Nov 15	OC	8.2 *9.9	35'	R01:42.9 D+64:00
NGC654	Nov 15	OC	6.5 *7.4	5'	R01:44.1 D+61.53 <b>RM</b> 8,000ly
NGC659	Nov 16	OC	7.9 *10	5'	R01:44.2 D+60.42 6,800ly
NGC663	Nov 16	OC	7.1 *8.4	16'	R01:46.0 D+61:15 <b>RM</b> 8,000ly
IC166	Nov 18	OC	11.7	5'	R01:52.8 D+61:52 <b>RM</b>
ι-Cas	Nov 27	T*	4.7 7.0 8.2	A5p 2.3" F5 7.2" G5	R02:29.1 D+67:24 SAO12298 140ly 480yr Yellow, lilac, blue
Melotte 15	Nov 27	OC	6.5 *7.9	22'	R02:32.7 D+61:27
IC1848	Dec 2	OC	6.5	18'	R02:51.2 D+60:24 6,000ly
Collinder 34	Dec 5	OC	6.8	24'	R02:59.4 D+60:34 6,000ly
Trumpler 3	Dec 8	OC	7.0	23'	R3:12.0 D+63:11

Catalogue	Date	Type	Mag	Size	Comments
<b>AQUARIUS</b>					
<b>M72</b>	Sep 2	GC	9.4	6'	R20:53.5 D-12:32 <b>RM</b> 55,000ly
<b>M73</b>	Sep 5	AS	8.9 *10	3'	R20:59.0 D-12:38
NGC7009	Sep 6	PN	8.3 12.8	25"	R21:04.2 D-11:22 Saturn Nebula 3,000ly
<b>M2</b>	Sep 12	GC	6.5	13'	R21:33.5 D-00:49 <b>RM</b> 38,000ly
Struve2838	Sep 19	D*	6.3 9.1	F5IV 17"	R21:54.6 D-03:18 SAO145735
NGC7184	Sep 21	GX	11.2 13.4	6.5'x1.4'	R22:02.7 D-20:49
ζ-Aqr Struve2909	Sep 28	D*	4.4 4.5	F1IV 2" F5IV	R22:29.0 D-00:01 76ly 850yr
NGC7293	Sep 28	PN	6.5	15x12'	R22:29.6 D-20:48 Helix Nebula 300ly
τ-Aquarii Struve2943	Oct 2	D*	5.8 9.0	B9V 24"	R22:47.7 D-14:03 SAO165298
ψ-Aquarii 91-Aqu	Oct 10	D*	4.5 10.8	K0III 50" K	R23:15.9 D-09:05 SAO146598
NGC7606	Oct 11	GX	10.8 13.0	4.4'x2.0'	R23:19.1 D-08:29

## FALL 5

Catalogue	Date	Type	Mag	Size	Comments
<b>AQUARIUS</b>					
94 Aquarii Struve2998	Oct 11	D*	5.3 7.3	G5IV 13" K2V	R23:19.1 D-13:28 SAO165625 70ly reddish, green
NGC7721	Oct 16	GX	11.6 <i>13.0</i>	3.3'x1.3'	R23:38.8 D-06:31
NGC7723	Oct 16	GX	12.2 <i>12.9</i>	2.8'x1.9'	R23:38.9 D-12:58
NGC7727	Oct 16	GX	10.6 <i>13.8</i>	5.6'x4.0'	R23:39.9 D-12:18
<b>PISCIS AUSTRINUS</b>					
NGC7172	Sep 21	GX	11.8 <i>13.1</i>	2.8'x1.4'	R22:02.0 D-31:52
NGC7173	Sep 21	GX	11.1 <i>13.6</i>	4.4'x2.6'	R22:02.6 D-31:58
NGC7174	Sep 21	GX	11.3	3.4'x2.2'	R22:02.1 D-31:59
NGC7176		GX	11.1	3.5'x2.2'	R22:02.1 D-31:59
NGC7214	Sep 23	GX	11.7 <i>12.7</i>	2.3'x1.3'	R22:09.1 D-27:49
NGC7221	Sep 23	GX	11.2 <i>13.1</i>	1.9'x1.4'	R22:11.3 D-30:37
NGC7229	Sep 25	GX	12.6 <i>13.3</i>	1.5'x1.5'	R22:14.0 D-29:23
$\beta$ -PsA 17-PsA	Sep 29	D*	4.4 7.9	30"	R22:32.5 D-32:21
NGC7314	Sep 30	GX	10.9 <i>12.9</i>	4.2'x1.7'	R22:35.8 D-26:03
h5356	Oct 1	T*	6.3 7.3 8.1	87" 3.2"	R22:39.7 D-28:20
NGC7361	Oct 1	GX	12.2 <i>13.4</i>	4.0'x0.9'	R22:42.3 D-30:03

## FALL 6

Catalogue	Date	Type	Mag	Size	Comments
<b>LACERTA</b>					
NGC7209	Sep 22	OC	6.7 *9.0	25'	R22:05.2 D+46:30 3,000ly
IC1434	Sep 23	OC	9.0 *12	8'	R22:10.5 D+52:50
Struve2876	Sep 24	D*	7.8 9.3	F8 12"	R22:12.0 D+37:39 SAO72119
NGC7243	Sep 24	OC	6.4 *8.5	21'	R22:15.3 D+49:53 2,800ly
NGC7245	Sep 24	OC	9.2 *13	5'	R22:15.3 D+54:20
IC1442	Sep 25	OC	9.1 *11		R22:16.5 D+54:03
Struve 2894	Sep 26	Q*	6.2 8.8 13.1 9.5	A8III 16" 44" 222"	R22:18.9 D+37:46 SAO72228  BD 207"
Struve2902	Sep 27	M*	7.6 8.5 12.1 12.9	G5 6" 5"	R22:23.6 D+45:21 SAO51957  NE
IC5217	Sep 27	PN	13.0	6"	R22:23.9 D+50:58
8-Lac Struve2922	Sep 30	P*	5.7 6.5 10.5 9.1 7.2	B1V 22" B2V 49" 82" A0 337" F0	R22:35.9 D+39:38 SAO72509  BC 28" BD 67" BE 324" CD 42" 1900ly
OStruve475	Oct 1	D*	6.8 10.8	B2V 15"	R22:39.1 D+37:23 SAO72569
h975	Oct 5	D*	5.6 9.5	51"	R22:55.7 D+36:21

# FALL 7

Catalogue	Date	Type	Mag	Size	Comments
<b>SCULPTOR</b>					
NGC7507	Oct 8	GX	10.6 <i>12.9</i>	3.1'x3.0'	R23:12.1 D-28:32
NGC7513	Oct 9	GX	11.9 <i>13.5</i>	2.9'x1.7'	R23:13.2 D-28:22
NGC7755	Oct 17	GX	11.4 <i>13.8</i>	3.6'x3.0'	R23:47.9 D-30:31
NGC7793	Oct 20	GX	9.2 <i>13.6</i>	10.5'x6.2'	R23:57.8 D-32:35 ****
NGC24	Oct 23	GX	11.3 <i>13.4</i>	6.3'x1.3'	R00:09.9 D-24:58 ****
NGC55	Oct 24	GX	8.1 <i>13.6</i>	30.0'x6.3'	R00:14.9 D-39:11 Spectacular! *****
NGC134	Oct 28	GX	10.4 <i>13.3</i>	8.5'x1.9'	R00:30.4 D-33:15 *****
NGC148	Oct 29	GX	12.1 <i>12.4</i>	1.9'x0.8'	R00:34.3 D-31:47
NGC150	Oct 29	GX	11.3 <i>13.0</i>	3.4'x1.6'	R00:34.3 D-27:48
NGC253	Nov 1	GX	7.6 <i>13.2</i>	30.0'x6.9'	R00:47.6 D-25:17 <b>RM</b> *****
NGC254	Nov 1	GX	11.6 <i>12.9</i>	2.6'x1.5'	R00:47.5 D-31:25
NGC289	Nov 3	GX	10.6 <i>12.9</i>	3.7'x2.7'	R00:52.7 D-31:12
NGC288	Nov 3	GC	8.1	13.8'	R00:52.8 D-26:35 **** <b>RM</b>
NGC439	Nov 8	GX	11.4 <i>13.3</i>	3.2'x2.1'	R01:13.8 D-31:45
NGC613	Nov 13	GX	10.0 <i>12.7</i>	5.2'x2.6'	R01:34.3 D-29:25 ****
ε-Scl	Nov 16	D*	5.4 8.6	4.7''	R01:45.6 D-25:03

## FALL 8

Catalogue	Date	Type	Mag	Size	Comments
<b>ANDROMEDA</b>					
NGC7662	Oct 12	PN	8.3 *13	12''	R23:25.9 D+42:33 Blue Snowball 3,900ly
NGC7686	Oct 13	OC	5.6 *6.2	14'	R23:30.2 D+49:08
ADS246	Oct 25	D*	8.2 10.6	M2V 40'' M6V	R00:17.9 D+44:00 SAO001326 Only 11.7ly away
$\pi$ -Andr 29-And	Oct 30	D*	4.4 8.6	B5V 36''	R00:36.9 D+33:43 SAO54033
<b>M110</b> E5	Oct 31	GX	8.0 13.9	17x10'	R00:40.4 D+41:41
NGC206	Oct 31	OC		4.0'	R00:40.7 D+40:46 RM 2.5Mly
<b>M31</b> SA(s)b	Oct 31	GX	3.5 13.6	160x40'	R00:42.7 D+41:16 Andromeda Galaxy RM 2.5Mly
<b>M32</b> E2	Oct 31	GX	8.2 12.7	6x8'	R00:42.7 D+40:52 RM 2.5Mly
NGC404 SA(s)0	Nov 7	GX	10.1	6'	R01:09.4 D+35:43 RM
NGC752	Nov 20	OC	5.0 *9.0	50'	R01:57.8 D+37:41 1,300ly
56 And	Nov 20	D*	5.7 5.9	K0III 200'' M0III	R01:56.2 D+37:15 SAO55107 300ly, on edge OC NGC752 golden
$\gamma$ -Andr 57-And	Nov 21	D*	2.3 5.1	B8V 10'' B9V 0.4'' A0V	R02:03.9 D+42:20 SAO37734 RM 350ly Almach Almaak Topaz-orange, aquamarine
NGC891 SA(s)b	Nov 25	GX	10.0 13.7	13x3'	R02:22.6 D+42:21



# FALL 9

Catalogue	Date	Type	Mag	Size	Comments
<b>PISCES</b>					
NGC7541 <i>SB(rs)bc</i>	Oct 9	GX	11.7 <i>12.8</i>	3.1'x1.0'	R23:14.7 D+04:32
NGC7562 <i>E2</i>	Oct 10	GX	11.6 <i>12.7</i>	2.1'x1.6'	R23:16.0 D+06:41
35 Piscium	Oct 25	D*	6.0 7.6	F0IV 11.6"	R00:15.0 D+08:49 SAO109087
38 Piscium	Oct 25	D*	7.9 7.8	F5 4.3"	R00:17.4 D+08:53 SAO109111
42 Piscium	Oct 26	D*	6.2 10.1	K3III 28.5"	R00:22.4 D+13:29 SAO91866
51 Piscium	Oct 28	D*	5.7 9.5	B9.5V 27.5"	R00:32.4 D+06:57 SAO109262
55 Piscium	Oct 31	D*	5.4 8.7	K0III 6.5" F3V	R00:39.9 D+21:26 SAO74182 200ly
74 Piscium $\psi$ -Psc	Nov 6	D*	5.6 5.8	A1V 30" A0V	R01:05.6 D+21:28 SAO74482
77 Piscium	Nov 6	D*	6.8 7.6	F3V 33" F6V	R01:05.8 D+04:55 SAO109666
$\zeta$ -Piscium 86-Piscium	Nov 8	D*	5.6 6.5	A7IV 23" F7V	R01:13.7 D+07:35 SAO109739 140ly
NGC488 <i>SA(r)b</i>	Nov 10	GX	10.3 <i>13.5</i>	5.5'x4.0'	R01:21.8 D+05:15
NGC524 <i>SA(rs)0</i>	Nov 11	GX	10.2 <i>12.8</i>	3.5'x3.5'	R01:24.8 D+09:32
<b>M74</b> <i>SA(s)c</i>	Nov 13	GX	9.2 <i>14.4</i>	11'	R01:36.7 D+15:47 32Mly
$\alpha$ -Psc Alrisha	Nov 20	D*	4.2 5.1	A0 1.8" A3	R02:02.0 D-02:46 SAO110291 Alresha 130ly

# FALL 10

Catalogue	Date	Type	Mag	Size	Comments
<b>PERSEUS</b>					
<b>M76</b>	Nov 15	PN	11.5 *16	2'x1'	R01:42.3 D+51:34 Little Dumbbell <b>RM</b> 4,000ly
NGC744	Nov 20	OC	7.9	11'	R1:58.5 D+55:29 3,900ly
NGC869	Nov 25	OC	4.4	30'	R02:19.0 D+57:09
NGC884					Double Cluster <b>RM</b> 6,800/7,600ly
NGC957	Nov 28	OC	7.6 *9.5	10'x5'	R02:33.6 D+57:32 <b>RM</b>
Trumpler 2	Nov 29	OC	5.9 *7.4	20'	R02:37.3 D+55:59
NGC1023 <i>SB(rs)0</i>	Nov 30	GX	9.3 <i>13.1</i>	8.6'x4.2'	R02:40.4 D+39:04 <b>RM</b>
<b>M34</b>	Nov 30	OC	5.2 *7.3	35'	R02:42.0 D+42:47 <b>RM</b> 1,400ly
θ-Persei Struve296	Nov 30	D*	4.1 9.1	F8V 20"	R02:44.2 D+49:14 SAO38288
η-Persei Struve307	Dec 2	D*	3.8 8.5	K3Ib 28" B	R02:50.7 D+55:54 SAO23655 Miram 1,000ly
Struve331	Dec 5	D*	5.3 6.7	B7V 12" B9V	R03:00.9 D+52:21 SAO23763
NGC1245	Dec 8	OC	8.4 *11	10'	R03:14.7 D+47:15
Melotte 20	Dec 10	OC	1.2	5deg	R03:22.0 D+48:36 α-Pers OB assoc. Starts at Mirfak 600ly
NGC1333	Dec 12	BN		6'x3'	R03:29.3 D+31:25
NGC1342	Dec 12	OC	6.7 *8.8	14'	R03:31.6 D+37:20
NGC1444	Dec 17	OC	6.6* 6.8	4'	R03:49.4 D+52:40
ζ-Persei 44-Per	Dec 18	Q*	2.9 9.5 11 9.5	B1Ib 13" 33" 94"	R03:54.1 D+31:53 SAO56799
IC2003	Dec 19	PN	12	8'	R03:56.3 D+33:53 <b>RM</b>
NGC1499	Dec 20	BN		145'	R04:00.7 D+36:37 California Nebula 2,000ly?
NGC1491	Dec 21	BN		25'	R04:03.4 D+51:19
NGC1513	Dec 22	OC	8.4 *11	9'	R04:10.0 D+49:31
NGC1528	Dec 24	OC	6.4 *8.8	23'	R04:15.4 D+51:14 <b>RM</b> 2,600ly
NGC1545	Dec 25	OC	4.6	18'	R04:21.2 D+50:16 <b>RM</b> 2,600ly
56 Persei	Dec 26	D*	5.9 8.7	F4V 4"	R04:24.6 D+33:58 SAO57216

# FALL 11

Catalogue	Date	Type	Mag	Size	Comments
<b>CETUS</b>					
NGC151	Oct 29	GX	11.6 <i>13.1</i>	3.3'x1.4'	R00:34.0 D-09:42
NGC157 <i>SAB(s)c</i>	Oct 29	GX	10.4 <i>12.7</i>	4.0'x2.4'	R00:34.8 D-08:24
NGC210 <i>(R)SAB(rs)a</i>	Oct 31	GX	10.9 <i>13.4</i>	4.0'x2.9'	R00:40.6 D-13:52
NGC245	Nov 1	GX	12.2 <i>12.4</i>	1.2'x1.2'	R00:46.1 D-01:44
NGC246	Nov 1	PN	10.9 <i>*12</i>	225''	R00:47.0 D-11:53
NGC247	Nov 1	GX	9.2 <i>14.1</i>	19.0'x5.5'	R00:47.1 D-20:46
NGC337	Nov 5	GX	11.6 <i>13.1</i>	3.0'x1.5'	R00:59.8 D-07:35
26 Ceti Struve84	Nov 6	D*	6.2 8.6	F1V 16''	R01:03.8 D+01:22 SAO109643
NGC578	Nov 12	GX	11.0 <i>13.2</i>	3.9'x2.2'	R01:30.5 D-22:40
NGC584 <i>SAB0</i>	Nov 12	GX	10.4 <i>12.2</i>	3.2'x1.7'	R01:31.3 D-06:52
NGC596 <i>SAB0</i>	Nov 13	GX	10.9 <i>12.6</i>	2.7'x2.0'	R01:32.9 D-07:02
NGC615 <i>SB(r)ab</i>	Nov 14	GX	11.6 <i>12.7</i>	2.5'x1.3'	R01:35.1 D-07:20
NGC636 <i>SA(r)0</i>	Nov 15	GX	11.5 <i>13.1</i>	2.7'x1.9'	R01:39.1 D-07:31
NGC720 <i>E4</i>	Nov 18	GX	10.2 <i>12.4</i>	4.3'x2.0'	R01:53.0 D-13:44
NGC779 <i>SA(r)ab</i>	Nov 20	GX	11.2 <i>12.5</i>	3.4'x1.2'	R01:59.7 D-05:58
66 Ceti	Nov 22	D*	5.7 7.5	F8V 16''	R02:12.8 D-02:24 SAO129752
NGC864 <i>SAB(rs)c</i>	Nov 23	GX	10.8 <i>13.6</i>	4.4'x3.2'	R02:15.5 D+06:00
o-Ceti	Nov 25	V*	2.0 - 10.1	331.9d M7III	R02:19.3 D-02:59 SAO12825 Mira
NGC908	Nov 26	GX	10.4 <i>13.1</i>	5.5'x2.3'	R02:23.1 D-21:14
NGC936 <i>(R)SB(rs)0</i>	Nov 27	GX	10.2 <i>13.5</i>	5.7'x4.6'	R02:27.6 D-01:09
NGC1022 <i>(R)SB(r)0/a</i>	Nov 27	GX	11.3 <i>13.3</i>	2.7'x2.7'	R02:38.5 D-06:40
NGC1052 <i>SA(r)0</i>	Nov 30	GX	10.5 <i>12.1</i>	2.5'x2.0'	R02:41.1 D-08:15
84 Ceti Struve295	Nov 30	D*	5.8 9.0	F7IV 4''	R02:41.2 D-00:42 SAO130055
NGC1055 <i>Sb</i>	Nov 30	GX	10.6 <i>13.9</i>	7.3'x3.3'	R02:41.8 D+00:26 RM 41Mly
<b>M77</b> <i>(R)SAB(rs)ab</i>	Dec 1	GX	8.9 <i>13.2</i>	6'x5'	R02:42.7 D-00:01 Sayfert GX RM 47Mly

## FALL 12

Catalogue	Date	Type	Mag	Size	Comments
<b>CETUS</b>					
$\gamma$ -Ceti Kaffaljidhma Struve299	Dec 1	D*	3.5 7.3	A3V 2.8" F3	R02:43.5 D+03:15 SAO110707 RM 63ly
NGC1087 <i>SB(s)c</i>	Dec 1	GX	10.9 <i>13.3</i>	3.7'x2.8'	R02:46.4 D-00:30
<b>FORNAX</b>					
$\omega$ -For h3506	Nov 28	D*	5.0 7.7	B9 10.8"	R02:33.8 D-28:14
NGC1097	Dec 1	GX	9.2 <i>13.6</i>	10.5'x6.3'	R02:46.3 D-30:16
NGC1201	Dec 6	GX	10.8 <i>12.7</i>	3.5'x1.9'	R03:04.1 D-26:04
$\alpha$ -For h3555	Dec 8	D*	4.0 7.0	F8 5.1"	R03:12.1 D-28:59
NGC1255	Dec 8	GX	11.0 <i>13.3</i>	4.0'x2.5'	R03:13.5 D-25:44
NGC1302	Dec 10	GX	10.4 <i>13.3</i>	4.3'x3.7'	R03:19.9 D-26:04
NGC1344	Dec 12	GX	10.2 <i>12.9</i>	4.7'x3.0'	R03:28.3 D-31:04
NGC1350	Dec 12	GX	10.3 <i>13.4</i>	6.2'x3.2'	R03:31.1 D-33:38
NGC1360	Dec 13	PN	9.4 *11	6.5'	R03:33.3 D-25:51
NGC1365	Dec 13	GX	9.3 <i>13.6</i>	8.9'x6.5'	R03:33.6 D-36:08
NGC1371	Dec 14	GX	10.6 <i>13.5</i>	4.9'x3.4'	R03:35.0 D-24:56
NGC1385	Dec 14	GX	10.7 <i>12.9</i>	3.6'x2.4'	R03:37.5 D-24:30
NGC1398	Dec 15	GX	9.5 <i>13.3</i>	7.1'x5.2'	R03:38.9 D-26:20
NGC1406	Dec 15	GX	11.6 <i>13.0</i>	4.5'x0.9'	R03:39.4 D-31:19
NGC1425	Dec 15	GX	10.8 <i>13.3</i>	5.4'x2.2'	R03:42.2 D-29:54

## FALL 13

Catalogue	Date	Type	Mag	Size	Comments
<b>TRIANGULUM</b>					
<b>M33</b> <i>SA(s)cd</i>	Nov 12	GX	5.7 <i>14.2</i>	62x35'	R01:33.9 D+30:39 Triangulum Gal./Pinwheel Gal. 2.7Mly
NGC604	Nov 13	BN			R01:34.5 D+30:48 HII reg. in M33
NGC672 <i>SB(s)cd</i>	Nov 17	GX	10.9 <i>13.8</i>	6.6'x2.6'	R01:47.9 D+27:26
$\epsilon$ -Trianguli 3-Tri	Nov 20	D*	5.4 11.4	A2V 4"	R02:03.0 D+33:17 SAO55218
$\iota$ -Trianguli 6-Tri	Nov 23	D*	5.3 6.9	G5III+F5V 4" F6V	R02:12.4 D+30:18 200ly
Struve239	Nov 24	D*	7.0 8.0	F7V 14" F9V	R02:17.4 D+28:45 SAO75284
NGC925 <i>SAB(s)d</i>	Nov 26	GX	10.1 <i>14.8</i>	12'x7'	R02:27.3 D+33:35

Catalogue	Date	Type	Mag	Size	Comments
<b>ARIES</b>					
$\gamma$ -Arietis Struve180	Nov 18	D*	4.8 4.8	B9V 7.8" A1	R01:53.5 D+19:18 SAO92680 Mesarthim <b>RM</b> 160ly
$\lambda$ -Arietis H V 12	Nov 20	D*	4.9 7.7	F0V 37" G0	R01:57.9 D+23:36 SAO75051
NGC772 <i>SA(s)b</i>	Nov 20	GX	10.3 <i>14.0</i>	7.3'x4.6'	R01:59.3 D+19:01
NGC821 <i>E6</i>	Nov 21	GX	10.7 <i>12.7</i>	3.3'x2.3'	R02:08.4 D+11:00
30 Arietis Struve I 5	Nov 29	D*	6.6 7.4	F6III 39" F4V	R02:37.0 D+24:39 SAO75470
33 Arietis Struve289	Nov 30	D*	5.5 8.4	A3V 27"	R02:40.7 D+27:04 SAO75510
$\pi$ -Arietis	Dec 2	T*	5.8 8.0 10.7	B6V 3.3" 25.1"	R02:49.3 D+17:28 SAO93127 600ly
Struve326	Dec 4	D*	7.6 9.8	K0 6" K9	R02:55.6 D+26:52