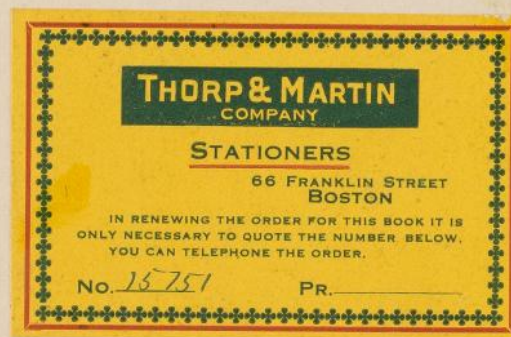


11





A X

2066	2 ± 0	23	
1479	4-30	41	
1043	12 ± 0	85	
2263	14-30	14	
1309	21-45	31	75
1166	23-45	28	75

Book 11

Identifications + Magnitude measures of
N.G.C. objects $\pm 0^\circ$ to $+30^\circ$ — Page 5.

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15 ^h - 10	1 ^h - 42	10 ^h - p 65
16 ^h - 14	2 ^h - 46	11 ^h - 70.
17 ^h - 16	3 ^h - 49	
18 ^h - 18	4 ^h - 50	
19 ^h - 20	5 ^h - 51	
20 ^h - 22	6 ^h - 53	
21 ^h - 24	7 ^h - 55	
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23 ^h - 30	9 ^h - 60	

Identification and magnitude measures of
N.G.C. objects $+60^\circ$ to $+90^\circ$ page 81

+30° to ±0°

5

14 ^h					
5482	CF	A6449	- done already	ε13.2	
5487 _m *		A6449	" "	ε13.2	
5491	PF	A6449	" "	ε13.2	
5498 _m *		A5400 AY1468		ε13.3	
5501	VF				
5504 _m		A6398 AY1468		ε13.3	
5505 _m		A6402 AX1193		ε13.3	
5508 _m		A5400 AY1468		ε13.3	
5509 _m		A3092 AY1468		ε13.3	
5511 _m		A6449	not found.		
5513		A3092 AY1468		ε13.5	
5514	PF	A6449 AX1605		ε13.5	
5518 _m		A3092 AY1468		ε13.3	
5519		A6449 AX1605		ε13.5	
5521	VF				
5522	PF	Too faint to be found on A6398			
5523	F	A5400 AY ^{12.8} 1468, AY ^{13.0} 1337, RH ^{12.7} 213			<u>12.8</u> ✓
5525 _m		A6402		ε13.2	
5528 _m		not found on A6449			
5531	CF	A6402 AX1193		ε13.3	
5532		A6402 AX1193		13.2	
5535	CF				
5537	CF	A6449 AX1605		ε13.3	
5538	VF				
5539	F	A6449 AX1605		ε13.3	
5542	F	A6449 AX1605		ε13.3	
5543	F	A6449 AX1605		ε13.3	
5546		A6449 AX1605		ε13.3	
5548		A5400 AY ^{12.9} 1468, AY ^{13.1} 1337, RH ^{12.8} 213			<u>12.9</u> ✓
5549		A6449 AX1605		ε13.3	

* See end of hour list

MC 19811
c9: 0.3:

6h (cont'd)

5550	F	A6402 AX1193 ϵ 13.3	
5551	F	A6449 ϵ 13.3	
5552	VF		
5553	F	A5400 AY1468 ϵ 13.3	
5554	VF		
5558 m		A6449 ϵ 13.3	
5559	VF		
5560	PF	A6842 AX1193 13.3	
5562 m		A6402 AX1193 ϵ 13.3	
5563	ϵ F		
5564 m	}	Probably the same as 5563 N.	
5565 m			
5566		A6842 AX ^{11.7} 1193, AX ^{11.9} 2269, AX ^{12.0} 1605	<u>11.9</u> ✓
5569	ϵ F		
5570	VF		
5573	F	A6449 ϵ 13.3	
5574		A6842 AX ^{13.0} 1193, AX ^{13.2} 2269, AX ^{13.2} 1605	<u>13.1</u> ✓
5575	VF		
5576		A6842 AX ^{11.8} 1193, AX ^{12.0} 2269, AX ^{11.9} 1605	<u>11.9</u> ✓
5577	ϵ F	A6842 AX1193 13.2	
5578 m		A6449 AX1605 ϵ 13.3	
5583 m		A6402 AY609 ϵ 13.3	
5584 m		A6842 AX ^{12.0} 1193, AX ^{12.3} 1193, AX ^{12.3} 1605	<u>12.2</u> ✓
5586 m		A6402 AY609 ϵ 13.3	
5587	ϵ F	A6402 AY609 ϵ 13.2	
5591 m		A6402 AY609 ϵ 13.2	
5594	F	A5400 AX1468 ϵ 13.3	
5599	F	A6449 AX1605 ϵ 13.3	
5600	???	A6763 + A6402 AY ^{12.3} 609 RH ^{12.4} 316 AY ^{12.4} 631	<u>12.4</u> ✓ S: 1.0 X 0.7
5610	PF	A5400 AY1468 ϵ 13.3	
5619	ϵ F	A6842 AX1193 ϵ 13.3	

3.0 X 0.5 S
low surface br.

$\pm 0^\circ 6' + 30^\circ$

7

14^h (contd.)

- 5621 F A6839 AX1605 $\epsilon 13.5$
- 5627 F A5923 AY609 $\epsilon 13.3$
- 5628_w A6763 RH316 $\epsilon 13.3$
- 5629 ?? A6792 AY1468 $\epsilon 13.3$
- 5632 F A6843 not found.
- 5635 PF A6792 AY1468 $\epsilon 13.3$
- 5636 vF
- 5637 PF A6794 AY1462
- 5638 A6842 AX^{12.6}1193, AX^{12.7}2269, AX^{12.6}1605 mc19538
12.6✓ dg 0.8
- 5641_w A6792 AY^{12.9}1468, RH^{13.3}213, AY^{13.1}1337 13.1✓
- 5644_w A5923 AX609 $\epsilon 13.3$
- X5645 A6839, AX^{13.1}1605, AX^{13.0}2269, AX^{12.5}1193 12.9✓ MC16729 c7 1.3
- 5648 } identical vF
- 5649 vF
- 5650_w not found on A6839
- 5651 F A6843 AX1193 $\epsilon 13.3$
- 5652 PF A6839 AX1605 $\epsilon 13.3$
- 5655 F MC21360 $\epsilon 13.5$
- 5657_w A6792 AY1468
- 5658 F A6843 not found
- 5659 vF
- 5661 F A6839 not found
- 5665 A6839 AX^{12.8}1605, AX^{12.7}2269, AX^{12.7}1193 12.7✓ (5: C8 1.0)
- 5666 PF A5923 AY609, RH316 $\epsilon 13.2$
- 5668 PFA6843 AX^{12.2}1193, AX^{12.3}2269, AX^{12.7}1605 12.4✓
- 5669 cF A5923 AX^{12.4}1605, RH^{12.5}316, AX^{12.6}2269 12.5✓
- 5674 cF A6839 AX1605 $\epsilon 13.3$ Low surface br.
- 5677 F A6792 AY1468 $\epsilon 13.3$
- 5679 EF
- 5680 F A6843 AX1605 $\epsilon 13.3$

8

14^h (cont'd)

5681		PF A6839	AX1605	13.3	
5690	X	PF A6843	AX ^{12.9} 1193, AX ^{12.8} 2269, AX ^{13.1} 1605		12.9✓
5691		A6843	AX ^{13.1} 1193, AX ^{13.0} 2269, AX ^{13.0} 1605		13.0✓
5701	* !! X	A6839	AX ^{12.9} 1605, AX ^{12.6} 2269, AX ^{12.8} 1193		12.8✓
5702		cFA6794	AY1337	13.5	
5710		cFA6794	AY1337	13.5	
5711		cF ^{miss} A6794			✓
5713	X	A6843	AX ^{11.9} 1193, AX ^{11.8} 2269, AX ^{11.7} 1605		11.8✓
5718		A6843	AX1193	13.2	
5719		A6843	AX1193	13.2	
5725		PF A6843	AX1193	13.5	
5733		PF A6843	AX1193	13.3	
5735		F A6792	AY1468	13.3	
5736	n	Not vis. ⁿ A5923	EEFS ⁿ NGR		
5737		vF			
5738		cF A6843	AX1193	13.5	
5740	X	A6843	AX ^{12.7} 1193, AX ^{12.7} 2269, AX ^{12.9} 1605		12.8✓
5746	X	A6843	AX ^{12.0} 1193, AX ^{11.7} 2269, AX ^{11.8} 1605		11.8✓
5747		vF			
5748	n	Not vis. ⁿ A6794	EFS ⁿ NGR		✓
5750	X	A6843	AX ^{12.7} 1193, AX ^{12.5} 2269, AX ^{12.5} 1605		12.6✓
5758	n	A5926	RH316	13.6	
5759	n	A5926	RH316	13.6	
5760		F A6760	RH316	13.3	
5762	n	A5926		13.6	
5763	n	A5926		13.6	
5765		D ^{EEF} PF A6450	AX1193	13.3	
5769	n	A6450	AX1193	13.3	
5770		D ^F A6845	AX1193	13.2	
5774		PF A6845	AX1193	13.2	

$0^{\circ} 6' + 30^{\circ}$

9

14^h (cont'd)

- 5775! A6845 AX ^{12.5}1193, AX ^{12.3}2269, AX ^{12.5}1609 $\overline{12.4}$ ✓ (sibz 4.2)
- 5776 pFA6845 AX ^{12.5}1193 ϵ 13.5
- 5778 n MC 12575 not found
- 5780 n A5401 AY 609 ϵ 13.3
- 5782 n A5926 RH 316 ϵ 13.6
- 5790 n A6450 AX ^{12.5}1193 ϵ 13.5
- 5806 A6845 AX ^{12.6}1193, AX ^{12.4}2269, AX ^{12.5}1609 $\overline{12.5}$ ✓
- 5811 FA6845 AX ^{12.5}1193 ϵ 13.5
- 5813 A6845 AX ^{12.1}1193, AX ^{12.1}2269, AX ^{12.4}1609 $\overline{12.2}$ ✓
- 5825* n MC 12575, AY 609 ϵ 13.3
- 5827 n A5401 AY 609 ϵ 13.3
- 5829 n A6415 RH 316 ϵ 13.5
- 5831 A6845 AX ^{12.5}1193, AX ^{12.7}2269, AX ^{12.9}1104 $\overline{12.7}$ ✓ (c9 0.5)
- 5837 n A5926 not found.
- 5838 A6845 AX ^{11.9}1104, AX ^{12.0}1193, AX ^{12.3}2359 $\overline{12.1}$ ✓
- 5839 A6845 AX 1104 ϵ 13.3
- 5841 Not found by Reinmuth.
- 5842 n ^{found by} A6415
- 5845 A6845 AX 1104 ϵ 13.3
- 5846 A6845 AX ^{11.6}1104, AX ^{11.7}1193, AX ^{11.6}2359 $\overline{11.6}$ ✓
- 5847 vF
- 5848 (143) cFA6845 AX 1104 ϵ 13.5
- 5490 cF A3092 done already 13.2
- 5492 A3092 AY 1468 ϵ 13.3
- 5692 A6843 AX 1193 ϵ 13.3
- 5814 cFA6845 AX 1193 ϵ 13.3
✓

0

15h

5850	!!	PF A6845 AX ^{13.0} 1104, AX ^{12.6} 1193, AX ^{13.0} 2359	<u>12.9</u> ✓
5851		EF	
5852		CF A5926 RH316 ± 13.5	} mc 19539 <u>12.7</u> ✓ e 4 1.3
5854		A6845 AX ^{12.6} 1104, AX ^{12.4} 1606, AX ^{13.0} 2359	
5855	m	A1809 not found, A.	
5856		?D A star.	
5857		PF MC12575 AY609 ± 13.5	
5859		CF MC12575 AY609 ± 13.5	} mc 19539 <u>12.8</u> ✓ d 5 1.5
5864		A1809 AX ^{12.9} 1104, AX ^{12.6} 1606, AX ^{12.8} 2359	
5868		A1809 not seen. Not on A1809	
5871	m	A1809 AX1104 13.2	
5887	m	A1809 AX1104 ± 13.5	
5904	!!	EBQ A1809 Cluster.	
5910		F A4322 AY609 ± 13.3	
5911	m	Not seen on A1809	
5919	m	Not seen on MC19693	
5920	m	Not seen on MC19693	
5921		No large scale plate AX ^{12.5} 1104, AX ^{12.5} 1606, AX ^{12.6} 2359	<u>12.5</u> ✓
5928		A6505 AY609 ± 13.5	
5931	m	} PF A5924 AX ^{12.9} 609, AX ^{13.1} 2313, AX ^{12.7} 631	<u>12.9</u> ✓
5936			
5940	m	No large scale plate to cover.	
5941	m	Not seen as nebulae on AX plate.	
5942	m	} All called eF or vF in N.G.P.	
5944	m		
5948	m	Not seen on A3685	
5951		F A6505 AY609 ± 13.3	
5952		F B25743 AX1104 ± 13.5	
5953		A6505 (Not resolved on AX RH.316 ± 13.6	
5954		PF A6505 Very near edge of P.H. RH.316 ± 13.6	
I 1151		A6797 AX ^{13.3} 2313 ± 13.3	

0° to +30°

15^h (contd.)

- 5955 F B25743 not found
- 5956 PF A5924 AY609 ϵ 13.3
- 5957 cF A5924 AY609 ϵ 13.3
- 5958 PFA6754 RH86 ϵ 13.3
- 5960 F B25743 AX1104 ϵ 13.5
- 5962 A6505 AX^{12.6}2313, AY^{12.5}609, AY^{12.4}631 $\overline{12.5}$ ✓
- 5964 vF
- 5970 PF A5924 AY^{12.3}609, AX^{12.6}2313, AY^{12.3}631 $\overline{12.4}$ ✓
- 5972m A6505 AX2313 ϵ 13.3
- 5975m A6418 RH86 ϵ 13.5
- 5977m not found on A6505
- 5980 cF A6505 AX2313 ϵ 13.3
- 5983 vF
- 5984 cF MC12793 AX^{13.1}2313, AX^{12.8}609, AX^{13.1}631 $\overline{13.0}$ ✓
- 5988m MC12794 not seen
- 5990 A3685 AX1104 ϵ 13.3
- 5991m A6754 not found.
- 5994m A6505 AX2313 ϵ 13.3
- 5996 PF A6505 AX2313 ϵ 13.3
- 5997 ? MC12794 not seen.
- 6001 PFA6754 RH86 ϵ 13.3
- 6002 ?? Reimmuth says there is no 6002 and I agree with him.
- 6003m A6797 AY609 ϵ 13.3
- 6004m A6797 AY609 ϵ 13.3
- 6006 EF
- 6007 F A5927 not found
- 6008m A6416 AY1408m.s. (ϵ 13.3), RH86 ϵ 13.6
- 6009 cF A5927 not found
- 6010 A6458 AX1104 ϵ 13.3
- 6012 cF MC12793 not found

12

15^h (cont'd)

6014	PF	B27937	AX1104	13.3
6016	CF	A694	not found.	
6017		B27937	could not be found!	
6018	F	A6797	AY609	13.3
6020		A6416	RH86	13.3
6021	CF	A6797	AY609	13.3
6022 ~		A6797	AY609	13.3
6023 ~		A6797	not found.	
6027 ~		A6416	RH86	13.7
6028 ~		A7374	AX106	13.3
6029	?	A5927	not seen	
6030 ~		A7374	AX106	13.3
6032 ~		A6416	RH86	13.6
6034 ~		A7374	AX106	13.3
6035 ~		A6416	RH86	13.3
6036		A6458	AX1104	13.3
6037	VF			
6039 ~		A7374	AX106	13.3
6040	VF	A7374	AX106	13.3
6041	VF	A7374		
6042	VF	A7374		
6043 ~		A7374	AX106	13.3
6044 ~		A7374	AX106	13.3
6045 ~		A7374	AX106	13.3
6046	?	A7374	not found.	
6047 ~		A7374	AX106	13.3
6049	?BD	a star		
6050 ~		A7374	AX106	13.3
6051 ~		A6416	AY1480	13.5
6052		A6416	AY ^{13.8} 1078, RH86 ^{13.2} 13.1, AY1480	13.0

$0^{\circ} 6' + 30^{\circ}$

13

6053w A7374 AX106 $\Sigma 13.3$
 6054w A7374 AX106 $\Sigma 13.3$
 6055w A7374 AX106 $\Sigma 13.3$
 6056w A7374 AX106 $\Sigma 13.3$
 6057w A7374 AX106 $\Sigma 13.3$
 6060 F A6416 AY1480 $\Sigma 13.5$ RH86 $\Sigma 13.3$
 6061w A7374 AX106 $\Sigma 13.3$

✓

6062

6063

6064

6065

6066

6067

6068

14

16h

6062	n	A7374	AX106	≤ 13.3		
6063	n	MC19719	AX1104	≤ 13.5		
6064		Same as N6052				
6065	n	I31574	not seen			
6066	n	I31574	not seen			
6070	F	A9012	AX ^{12.4} 1104	AX ^{12.8} 1606	AX ^{12.8} 2359	<u>12.7</u> ✓
6073	F	A7374	AX106	≤ 13.3		
6074	VF					
6075	n	A6058 not found.				
6076	CF	A5405	RH86	≤ 13.5		
6077	CF	A5405	RH86	≤ 13.5		
6078	F	I31574	AX106	≤ 13.3		
6080	n	A9012	AX1104	≤ 13.3		
6081	F	I31574 not found.				
6083	EF					
6084	n	A7374	AX106	≤ 13.3		
6085	PF	A5405	AH86	≤ 13.5		
6086		A5405	RH86	≤ 13.5		
6092	n	A5405	RH86	≤ 13.5		
6096	F	A5405	RH86	≤ 13.5		
6098	n	A7374	AX106	≤ 13.3		
6099	n	A7374	AX106	≤ 13.3		
6100	n	A9012	AX1104	≤ 13.3		
6102	VF	A7374	AX106	≤ 13.3		
6106	PF	RB240	AX ^{12.9} 1104	AX ^{12.9} 1606	AX ^{13.1} 2359	<u>12.9</u> ✓
6113	n	I31574 not seen.				
6132	F	I31574 not seen				
6148	?	A6058 not found.				
6149	n	MC12546	AX106	≤ 13.5		
6168	n	MC12546 not seen				
6181		MC12546	AX ^{13.0} 106	AX ^{12.5} 98	RH ^{12.4} 317	<u>12.6</u> ✓

$0^{\circ} 6' + 30^{\circ}$

15

(16^{contd})

6186 cF MC 12546 AY 106 13.2:
 6201 EF
 6203 vF
 6210 ? Not extra galactic.
 6219 No large scale plate available; not seen on R 14317.
 6224n MC 22462 not found
 6225n MC 22462 not found.
 6228 vF
 6230w A 6459 not found
 6234 F A 6459 not found
 6240 A 6459 AY 609 C13.3
 6243w A 5337 AX 106 C13.3
 6261w A 5406 AY 1480 C13.3
 6263 F A 5406 AY 1480 C13.3
 6264 eeF
 6265 vF
 6267 vF
 6269 cF A 5406 AY 1480 C13.3
 6270 eeF
 6271 eF
 6272 eeF
 6274 F A 5406 AY 1480 C13.3
 6276 vF
 6277 eF
 6278 pB A 5337 AX 106 C13.3
 6280 MC 22462 AY 609 C13.3

✓

16

17^w

6296 pF A6459 AX1812 C13.5
 6308 pF A6059 AX106 C13.2
 6314 A6059 AX106 C13.2
 6315 F A6059, not found.
 6321 vF
 6330 w A7927 C13.1
 6347 w A6848 AX106 C13.2
 6353 w stars only seen on A6848
 6364 w A7927 AY167 C13.1
 6368 cF A6018 AX106 C13.2
 6371 F A7250 AY167 C13.2
 6372 pF A7250 AY167 C13.2
 6375 F A1877 not found.
 6378 vF
 6379 F A1877 not found.
 6384 MC24993; AX^{12.5}1812, AX^{12.8}1723, AX^{12.7}1739 12.7✓
 6389 cF A1877 AX106 C13.3
 6406 w A1877 not found
 6408 eF
 6413 pF A6018 AX106 C13.2
 6417 vF
 6426 Cluster, Rein.
 6427 F A7250 AY167 C13.2
 6428 w A7250, not found.
 6429 vF
 6430 not seen, Rein.
 6431 not found, Rein.
 6442 vF
 6450 w A6732 AC16292 C13.1
 6452 eF

0° to $+30^{\circ}$

17

17^h (CONT.)

6458 eF

6460 vF

6467 F A6732. AC16292 ϵ 13.1

6468 3st. in f. neb. (No. nebulosity seen on A. plate.)

6481 n not identified on MC1132

6482 A5566 AY₁₆₇^{12.4}, AY₁₈₄^{12.2}, AY₈₈^{12.1} 12.2 ✓6484 cF A5566 AY₁₆₇ ϵ 13.2.

6486 n A7813, not found.

6487 n A7813 AY₁₆₇ ϵ 13.26490 cF A6732 AC₁₆₂₉₂^{13.0}, AM₁₁₀₇₂ ^{ϵ 13.0}6495 cF A6732 AC16292 ϵ 13.1

6499 stars - v M. A6732

6500 pF A6732 AC16292 ϵ 13.16501 pF A6732 AC16292 ϵ 13.16509 n I25821, AX₁₈₁₂ ϵ 13.2.

6525 loose cluster

6527 n A6732 AC16292 ϵ 13.16547 pF A7813 AY₁₆₇ ϵ 13.26548 A6732 AC₁₆₂₉₂^{12.9}, AM₁₁₀₇₂ ^{ϵ 13.0}, AC₁₅₄₂₂ ^{ϵ 13.1} —

6549 ? 3 stars in line

6550 (Same as 6548) A6732 AC16292 ϵ 13.1

{ 6513 vF

{ 6518 n A7813 AY₁₆₇ ϵ 13.2

✓

18

18^h

6555	cF	A6849 AC16292 ϵ 13.1
6564	star	
6570	F	A6912 AC16292 ^{12.8} , AM11072 ^{ϵ13.0} , AC15472 ^{ϵ13.0}
6571	vF	
6572	Planetary	
6574		A6912 AC16292 ^{12.5} , AM11072 ^{12.2} , AC15472 ^{13.0} , AM2906 ^{13.0} 12.9 12.7 ✓
6576	eeF	
6577	pF	A7892 AC16292 ϵ 13.1
6579	F	A7892 AC16292 ϵ 13.1
6580	F	A7892 AC16292 ϵ 13.1
6581	vF	
6586	F	A7892 AC16292 ϵ 13.1
6587		A6849 AC16292 ϵ 13.1
6591	eeF	
6593	F	A7892 ϵ 13.1
6599	n	A7998 not found.
6600		A7998 not found.
6602	n	Cluster
6610	vF	
6615	pF	A6912 AC16292 ϵ 13.1
6616	n	A7892 ϵ 13.1
6619	cF	A7892 AC16292 ϵ 13.1
6623	cF	A7892 AC16292 ϵ 13.1
6627	F	A6849 AC16292 ϵ 13.1
6628	vF	
6632		A7998 AY167 ϵ 13.2
6633		Cluster Rein.
6635	F	A2780 not found.
6641	F	A6060 not found.
6658	cF	A6060 not found.
6659		loose cluster, Rein.
6660	n	Same as 6661
6661		A6060 AY167 ϵ 13.1

0° to $+30^\circ$

19

18^h (CONT.)

6669 cl? eeF. Rein.
 6671 A 1989 AY167 ≤ 13.1
 6674 cF | A 1989 AY167 ≤ 13.1
 6680 eF
 6697 cF | A 7857 AY167 ≤ 13.1
 6709 cluster Rein.
 6710 | A 7857 AY167 ≤ 13.1
 6724 no cluster Rein.
 6738 very loose cluster Rein.
 6740 | A 7857 AY167 ≤ 13.1
 6743 loose cluster, Rein.
 6748 ee F/
 6749 no cluster Rein.

✓

20.

19^h

- 6755 Cluster Rein.
 6756 Cluster Rein.
 6760 \oplus Rein.
 6773 no cluster Rein.
 6779 \oplus Rein.
 6781 Planetary. H²P
 6790 n Planetary H²P
 6793 irregular cluster
 6795 no cluster, Rein.
 6800 a loose Cluster, Rein.
 6802 Cluster Rein.
 6803 n Planetary H²P
 6804 pF Planetary H²P.
 6807 n Planetary H²P.
 6813 stars, Rein.
 6815 dense region, no Cluster, Rein.
 6820 pF / A 2692, AX 883 ϵ 13.1
 6823 Cluster Rein.
 6827 n A 2747 cluster
 6828 dense region, no Cluster Rein.
 6830 Cluster, Rein.
 6834 Cluster Rein.
 6837 dense region, no Cluster Rein.
 6838 \oplus Rein.
 6839 dense region, no cluster, Rein.
 6840 very loose cluster
 6842 see F
 6843 cluster
 6847 not found Rein.
 6852 F / RB 492, not found.
 6853 Dumbell nebula, Rein.
 6858 a loose cluster, Rein.
 6859 star, Rein.

✓

19^h (CONT.) $0^{\circ} 6' + 30^{\circ}$

21

22

20^h

- 6873 dense region, no cluster Rein.
 6879 n Planetary H²P.
 6882 3 br. st. in dense region, Rein.
 6885 Cluster, Rein.
 6886 n Planetary H²P.
 6891 n Planetary H²P.
 6892 3 or 4 2 Fst. + see Fnet?
 6901 not found.
 6904 dense region, no Cluster, Rein.
 6905 Planetary H²P.
 6906 cF A6461 AX1762 c13.4
 6917 F A6461 not found.
 6921 cF I31319 not found.
 6927 identity doubtful Rein. A6180 not found
 6928 pF A6180 AX1762 c13.4
 6930 F A6180, not found.
 6933 star. Rein.
 6934 ⊕ Rein. A6180 Cluster.
 6938 loose cluster, Rein.
 6940 Cluster, Rein.
 6944 F A6180 AX1762 c13.4
 6950 a very loose cluster Rein.
 6954 pF A8962 AX1762 c13.3
 6955 see F
 6956 cF A6996 RH436 c13.2
 6957 vF
 6963 n A8962 AX1762 c13.5
 * 6969 I21070, not found.
 7003 F A8104 AX1762 c13.2
 7006 A8104 Cluster

0° to +30°

23

20^h (CONT.)

7013

A5351 on A plate fainter than 13.5.

7015_W

MC19892 AH 436 [13.2]

* 6971 CF I 34195, I 21070 not found.

6972 RH 436, RH 360 not found.

6988 RH 436, RH 360, not found.

✓

24

21^h

7025	A 8104 RH 436 13.2
7028	not found, Rein.
7033	vF A 8104 RH 436 13.2
7034	F A 8104 RH 436 13.2
7036	not a distinct cluster, Rein.
7040	n RH 436, not found.
7042	F A 8104, MC 19892, RH 436 13.2
7043	not found, Rein.
7046	PF A 9954 AX 791 13.5
7052	PF A 6572 AX 436 13.2
7053	PF A 6572 AX 436 13.2
7056	PF A 7373 AX 791 13.2
7066	n MC 19892, not found.
7068	- A 6183 AX 791 13.5
7074	F MC 11438 AX 791 13.5
7077	PF A 9011 AX 791 13.5
7078	Cluster ⊕, Rein.
7080	CF A 5352, RH 1258 13.2
7081	A 9011 AX 791 13.5
7084	a very loose cluster.
7085	vF
7094	n A 6183, not found.
7100	n MC 11438, not found.
7101	CF MC 11438 AX 791 13.3
7102	CF MC 11438 AX 791 13.3
7112	n A 6183 not found
7113	A 6183 not found.
7116	PF A 5352 RH 1258 13.2
7132	n MC 11438 AX 791 13.3
7137	PF A 5665 RH ^{13.2} 503, RH ^{13.0} 425, RH ^{13.2} 418 13.1 ✓
7138	vF
7143	probably a fl. double st.
7146	vF

$0^{\circ} 6' + 30^{\circ}$

25

21^k (CONT.)

- 7147 F MC19912 AX791 c113.5
 7148 F MC19912 AX791 c13.5
 7149 VF ———
 7156 F MC19912 AX791 13.3
 7159 n A6135, not found. MC19893, not seen.
 7161 stars, Rein.
 7164 n MC19912 not found:
 X 7177 A6779 RH^{12.2}503, RH^{12.1}425, RH^{12.0}418 12.1✓
 7190 cF A6135, MC15342, not found.
 7193 cluster
 7194 n A6135, MC15342 not found
 7195 n A6135, MC15342 not found.
 7206 F A6779 RH503 c13.5
 7207 VF ———
 7210 not found, Rein.
 ✓

22^h

7212 MC 15342, MC 20971, not seen.

7222 eF ~~~~~

7224 FVS ~~MC 15948~~7236 cFVS ~~MC 16951~~ not seen.

7237 vF ~~~~~

7238 MC 1194 not seen

7241 pB MC 1194 AX 2704 ϵ 13.27244 pFS ~~MC 19981~~7253 DF, F MC 20983, RH 1258 ϵ 13.2

7272 vF ~~~~~

7280 cB A2125, AX 2704 13.3

7283 cFVS ~~A2125~~7286 pB MC 20041, RH 1258 ϵ 13.27290 pF A2125, AX 2704 ϵ 13.27291 FS ~~A2125~~7292 pFPL MC 20041, RH 1258 ϵ 13.2

7305 MC 19025, not found.

7311 pB A8088, AX 791 13.2

7312 F A8088, MC 15354, not seen.

7316 cF A2125, AX 2704 13.2

7321 F MC 19025, AX 2704 ϵ 13.27323 cF A2125, AX 2704 ϵ 13.27324 F₂S ~~A2125~~7328 F A7035, AX 2704 ϵ 13.2X 7332 B MC 11784, AX ^{12.6}2704, AX ^{12.8}2690, RH ^{12.3}1258 12.6 ✓

7339 cF MC 11784, AX 2704 13.4.

7346 eF ~~~~~

7347 F₂S A7035, AX 2704 ϵ 13.27348 F A7035, AX 2704 ϵ 13.2

7350 not found Rein.

7353 " " Rein.

7356 MC 16236 MC 19908 not seen.

0° to +30°

27

22 (cont)

- 7357 MC 19908 MC 16236 not seen
- 7360 F, S ~~A 8088 not seen~~
- 7362 A 7034, AX 2704 C13.2
- 7366 vF ~~~~~~~~~
- 7367 pF A 8088 not seen.
- 7370 eF ~~~~~~~~~
- 7372 cF A 7035 AX 2704 C13.2
- 7373 pB A 8088 AX 791 C13.2
- 7374 cF A 7035 AX 2704 C13.2
- 7375 MC 19025, AX 2704 C13.2
- 7376 F A 8088 not seen.
- 7383 cF, S ~~A 6204 not seen~~
- 7384 A 6204 not seen
- 7385 pF, S ~~A 6204~~
- 7386 pF, S ~~A 6204~~
- 7387 cF, S ~~A 6204 not seen~~
- 7388 eeF ~~~~~~~~~
- 7389 cF, S ~~A 6204 not seen~~
- 7390 A 6204 not seen.
- 7396 pF MC 20953, AX 791 C13.2
- 7397 cF MC 20953 not seen
- 7398 cF, S ~~MC 20953 not seen~~
- 7401 vF ~~~~~~~~~
- 7402 MC 20953 not seen
- 7403 not found Reim.
- 7405 ~~/~~ A 6204, AX 2704 C13.2
- 7409 ~~/~~ MC 19025, AX 2704 C13.2
- 7411 ~~/~~ MC 19025, AX 2704 C13.2
- 7413 A 6204 not seen
- 7414 A 6204 not seen

28

22^h cont.

7415 ✓ MC19025

7420 F, S ~~MC11652 not seen~~

7422 pF B28234, AX791C13.2

7427 vF ~~~

7430 F A6128, not seen.

7431 MC11652 not seen.

7432 F, S ~~A8100~~

7433 aef ~~~

7435 ef ~~~

7436 pF, S ~~MC11652~~

7437 A8100, AX2704C13.2

7439 not found, Rain.

7442 pF A8100, AX2704C13.2

7448 cB A8100, AX2704^{11.8}, AX2644^{11.9}, AX2638^{11.8}11.8 spiral? 2' x 1.5", d7

7454 cB A8100, AX2704C13.2

7455 MC15343 AX2704C13.2

7457 cB MC11652, AX119^{12.5}, AX183^{12.3}, AY166^{12.0}12.3 ✓

7458 pB B28234, AX791C13.2

7459 MC15343 not seen.

7460 pF B28234, AX791C13.2

7461 cF, S ~~A8100~~, AX2704C13.2

7463 pF A8100, AX2704C13.2

7464 pF, S ~~A8100~~

7465 B A8100, AX2704C13.2

7466 vF ~~~

7467 vF ~~~

7468 pB A8100, AX2704C13.2

7469 cB A6128, AX2704^{13.0}, AX2644^{13.0}, AX2690^{13.1}13.0

7473 cF MC11652, AX119C13.2

7474 vF ~~~

0° to +30°

29

7475 F MC 20086 not seen.

7478 vF —

X 7479 !!pB A6204, AX^{11.6}2704, AX^{12.0}2644, AX^{12.1}263811.9✓7480 pF B28234 AX791 ≤ 13.2 7482 pB B28234 AX791 ≤ 13.2 7483 pB B28234 AX791 ≤ 13.2

✓

* 7451 cF A6128 not seen.

7452 MC 15343 not seen.

30

23^h

7487	MC 11652 not seen
7488	FvS MC 19026
7489	vF ~~~
7493	MC 19026 not seen
7495	RH 420, AX 2704 ϵ 13.2
7497	FL MC 18115, AX 2704 ϵ 13.2
7499	cFvS MC 20914
7500	RH 420, not seen.
7501	cFvS MC 20914
7503	pFvS MC 20914
7504	not a neb, Rein.
7505	A 8100 not seen
7508	cFvS A 8100
7509	A 8100, AX 2704 ϵ 13.2
7511	A 8100, AX 2704 ϵ 13.2
7515	cF A 8100, AX 2704 ϵ 13.2
7516	pFvS MC 20086
7518	pF MC 20914, AX 2704 ϵ 13.2
7519	F RH 420, not seen.
7523	see F ~~~
7525	FvS A 8100
7527	cFvS A 5666
7528	MC 20914, AX 2704 ϵ 13.2
7529	MC 20914, AX 2704 ϵ 13.2
7535	A 8100, AX 2704 ϵ 13.2
7536	A 8100, AX 2704 ϵ 13.2
7537	pF MC 19026, AX 1928 ϵ 13.2
7539	pFS A 5666
7540	FvS A 8100
X. 7541	pF MC 19026, AX ^{12.9} 1928, AX ^{12.6} 776, AX ^{12.9} 2095
	12.8 ✓

0° to +30°

31

23^h (cont)

- 7542 F₁S ~~RH420, not seen~~
 7543 MC19028, AC631 \pm 13.2
 7547 F₁S ~~MC18115~~
 7548 F₁S ~~A5666~~
 7549 cF MC18115 AX2704 \pm 13.2
 7550 pF₁S ~~MC18115~~
 7551 cF₁S ~~A8100~~
 7553 F₁S ~~MC18115, not seen.~~
 7555 not found, Rein.
 7557 F₁S ~~MC20914 not found.~~
 7558 ee F ~~~~~~~~~
 7559 F₁S ~~A8100~~
 7560 stars; no net, Rein.
 7561 star, no net, Rein.
 7562 B MC20914, AX2704 \pm 13.2
 7563 cF₁S ~~A8100~~
 7564 MC20914 AX2704 \pm 13.2
 7567 F A8100, AX2704 \pm 13.2
 7568 F A5666 not seen
 7569 RH420, not seen
 7570 pF₁S ~~A8100~~
 7571 identity very doubtful, Rein.
 7572 F₁S ~~MC18115~~
 7574 not found, Rein.
 7575 not found, Rein.
 7577 MC20914
 7578 F₁S ~~MC18115~~
 7579 F₁S ~~MC20914~~
 7580 A8100, AX2704 \pm 13.2
 7581 Same as N7541, Rein.

23^h (cont)

7583	pF, S MC 20914	
7584	F, VS MC 20914	
7586	eF ~~~~~	
7587	cF MC 20914, AX 2704 ϵ 13.2	
7588	vF ~~~~~	
7591	pF MC 20914, AX 2704 ϵ 13.2	
7593	cF RH 420, not seen	
7594	MC 20914, AX 2704 ϵ 13.2	
7595	MC 20914, AX 2704 ϵ 13.2	
7597	F, S MC 18115	
7598	vF ~~~~~	
7601	MC 20914, AX 2704 ϵ 13.2	
7602	F, VS MC 18115	
7604	F, VS MC 20914	
7605	not found = NGC 7583, Reine.	
7607	RH 420, not seen	
7608	F MC 20914, AX 2704 ϵ 13.2	
7609	F, S MC 20914	
7610	MC 20914, AX 2704 ϵ 13.2	
7611	pB MC 20914, AX 2704 ϵ 13.2	
7612	pB MC 20914, AX 2704 ϵ 13.2	
7615	eF ~~~~~	
7616	MC 20914 not seen.	
7617	cF, S MC 20914	
X 7619	B MC 20914, AX ^{12.8} 2704, AX ^{12.9} 2644, AX ^{12.8} 2690	$\overline{12.8\checkmark}$
7620	pF A 5666, AX 2704 ϵ 13.2	
7621	eeF ~~~~~	
7623	pB MC 20914, AX 2704 ϵ 13.2	
7624	MC 19028, AC 631 ϵ 13.2	
X 7625	pB MC 18115, AX ^{13.0} 2704, AX ^{12.7} 2644, AX ^{13.1} 2690	(d 8 .0:7) $\overline{12.9\checkmark}$

0° to +30°

33

23^h (cont)X 7626 CB MC 20914, AX^{12.6} 2704, AX^{12.9} 2644, AX^{12.8} 2690 $\overline{12.8\checkmark}$

7627 same as N 7641, Howe.

7628 MC 19028, AC 631 C13.2

7629 cFS ~~MC 19026~~

7630 RH 420, not seen

7631 cF MC 20914, AX 2704 C13.2

7634 pB MC 20914, AX 2704 C13.2

7638 RH 420, not seen

7639 RH 420, not seen

7641 eF 7642 pFVS ~~MC 19026~~

7643 pF RH 420, not seen

7644 MC 4011, RH 4011 C13.2

7647 eF 7648 cFS ~~MC 20914~~

7649 MC 4011, not seen

7651 MC 4011, AX 2704 C13.2

7653 pF MC 4011, AX 2704, RB 581 13.3

7659 pFS ~~MC 4011~~7660 FVS ~~MC 19028~~

7664 pB A5666, AX 2704 C13.2

7671 pB RH 420, AX 2704 C13.2

7672 F RH 420, not seen

7673 pB A5666, AX 2704 C13.2

7674 pF MC 20087, AX 2074 C13.2

7675 cFVS ~~MC 20087~~7677 F, S ~~A5666~~X 7678 pF A5666, AX^{13.0} 2074, AX^{12.8} 2644, AX^{12.9} 2690 $\overline{12.9\checkmark}$ 7679 pF B21809, AX^{13.1} 1928, AX^{12.9} 776, AX^{13.2} 2095 $\overline{13.1\checkmark}$ 7681 pFS

7682 not found, Rain.

23ⁿ (cont)

7683	pB	RH 420 not seen	
7685	eeF	~~~~~	
7687	pFvs	B 27809, not seen.	
7688	F ₂ S	~~~~~	
7691	eeF	~~~~~	
7696	pF	B 27809, AX 1928 ϵ 13.2	
7698		A 6062, I 34385, RH 676, not seen	
7703	cF	RH 468, AX 2704 not seen	
7704	pF	not identified on B 27809, I 24177 AX 1928	
7705	pF ₂ S	" " " "	
7706	pF	" " " "	
7711	pF	RH 468, AX 2704, not seen.	
7712	pF	A 6062, I 34385, RH 676, not seen.	
7714	cB	B 27809, AX 1928 ϵ 13.2	
7715	cF	B 27809, AX 1928 ϵ 13.0	
7718	cF ₂ S	A 7001	
7720	cFvs	A 7001	
7722	pF ₂ S	~~~~~	
7726		A 7001, RH 676 ϵ 13.2	
7728	pFvs	A 7001	
7729		A 7001, RH 676 ϵ 13.2	
7731	pFvs	B 27809 , AX 1928 ϵ 13.2	
7732	cF	B 27809, AX 1928 ϵ 13.2	
7735	cFvs	A 7001	
7737		A 7001, RH 676 ϵ 13.2	
7740		A 7001, RH 676 ϵ 13.2	
X 7741	cFchw	A 7001, RH 676 ϵ 12.7, AC 631, RH 955 ϵ 12.5	12.6: ✓
X 7742	B	A 7036, AX 2704 ϵ 12.8, AX 2644 ϵ 12.6, AX 2690 ϵ 12.6	12.7 ✓ Mc 19075
X 7743	pB	AX 1928 ϵ 13.1, AX 776 ϵ 12.8, AX 2095 ϵ 12.6	12.8 ✓ Mc 19075
7745	vF	~~~~~	c 9 0.4
7747	cF	A 7100, RH 676 ϵ 13.2	

$0^{\circ} 6' + 30^{\circ}$

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23^h (cont)

- 7750 pF B27809, AX1928 13.2
- 7751 cFS ~~RB610~~, ~~AX1928~~ 13.2
- 7752 pFS ~~A8026 not seen~~
- 7753 cF A8026, RH676 13.2
- 7756 B27809, AX1928, not seen.
- 7757 vF ~~~~~
- 7765 vF ~~~~~
- 7766 FVS ~~A8026 not seen~~
- 7767 cF A8026 not seen.
- 7768 pF A8026, RH676 13.2
- X 7769 pB A1702^{13.0}, AX2704^{12.8}, AX2644^{12.9}, AX2690^{12.9} 12.9 ✓
- 7770 cFVS ~~~~~
- 7771 pB A1702, AX2704 13.0
- 7772 a few stars, no cluster, Rain.
- 7774 A7036, AX2704 13.2
- 7775 A8026, RH676 13.2
- 7777 pFS ~~A8026~~
- 7778 pB RB610 AX1928 13.2
- 7779 pB RB610 AX1928 13.2
- 7780 RB610 AX1928 13.2
- 7781 cF RB610 AX1928 13.2
- 7782 pF RB610, AX1928^{13.1}, AX776^{13.0}, AX2095^{13.1} 13.1 ✓
- X 7785 cB RB610, AX1928^{12.9}, AX776^{12.8}, AX2095^{12.9} 12.9 ✓
- 7784 } I34342 not seen
- 7786 }
- 7791 stars; no net, Rain.
- 7792 cFS ~~~~~
- 7794 pF A7036, AX2704 13.2
- 7797 F RB610, AX1928 13.2
- 7798 pB I34342, AC631 13.2, RH2559 13.2
- 7800 pB A7036, AX2704 13.2

No plate
for desc.

36

23^h cont.

- 7802 cF RB610, AX1928, not seen
- 7803 A7036 not seen
- 7809 cFS ~~RB610, AX1928, not seen.~~
- 7810 cB A7036, AX2704 ϵ 13.2
- 7811 cFS ~~RB610, AX1928, not seen~~
- X 7814 !!cB, RH 2559, AX^{12.3}2704, AX^{12.5}2644, AX^{12.3}2690 12.4 ✓
- 7815 not found, Rain.
- 7816 cF RB610, AX1928 ϵ 13.3
- 7817 pF I 54342, AC 631 ϵ 13.2
- 7818 RB610, AX1928 not seen
- 7820 cB RB610, AX1928 ϵ 13.2
- 7824 pF RB610, AX1928 ϵ 13.2
- 7825 FVS ~~RB610, AX1928 ϵ 13.2~~
- 7827 pFS ~~RB610, AX1928 ϵ 13.2~~
- 7830 eS, stellar, Rain.
- 7833 A6998, RH676 ϵ 13.2
- 7834 F RB610, AX1928, not seen
- 7835 FS ~~RB610, AX1928, not seen~~
- 7837 VF ~~~
- 7838 cFS ~~RB610, AX1928, not seen.~~
- 7839 A6998 RH676 ϵ 13.2
- 7840 eF ~~~

✓

$\pm 0^\circ$ to $+30^\circ$

37

0^h

- 1 pF A6998 RH676 C13.2
 2 F A6998 RH676 C13.2
 3 pF RB610, AX1928, not seen.
 4 eeF ~~~~~
 8 vF ~~~~~
 9 F A7088, RH676 C13.2
 12 cF RB610, AX1928 13.2
 14 pB A8022, RH^{13.0}2559, RH^{13.2}2708 AY1769 C13.3
 15 FS ~~~~~
 16 pB A6998, RH^{13.0}676, AC^{13.0}631, AC^{13.1}3191 13.0 ✓
 18 eeeF ~~~~~
 22 A6998 RH676 C13.2
 X 23 pB A6998, RH^{12.8}676, AC^{12.6}631, AC^{12.6}3191 12.7 ✓
 26 F. A6998 RH676 C13.2 AC20043 0.7 d6
 27 A6998, RH676 C13.2
 30 star, Reim.
 32 CFvS ~~~~~
 33 ? neb x 13.7
 36 pF RB610, AX1928 13.3
 41 cF A7688, RH676 C13.2
 42 pFvS ~~~~~
 46 star, Reim.
 52 F A8022, not seen.
 56 vF, ph ~~~~~
 57 pB A8022, RH2557 C13.2
 63 cB A6136, AX1928 13.2,
 67 eF ~~~~~
 68 cFS A6998
 69 eF ~~~~~
 70 vF ~~~~~

38

O^h

- 71 vF ~~~~~
- 72 vF ~~~~~
- 74 eF ~~~~~
- 75 RB610, AX1928 E13.2
- 76 A6998, RH676 E13.2
- 78 D, pF, vF RB610, (unresolved) both together on A1928 E13.2
- 79 A7088 not seen
- 80 pB A7088, RH2559 E13.2
- 81 A7088 RH2559 E13.2
- 82 A7088 not seen
- 83 pF A7088, RH2559 E13.2
- 84 A7088 not seen.
- 85 FS ~~~~~
- 86 A7088 not seen
- 90 eeF ~~~~~
- 91 FS ~~~~~
- 93 pF A7088 RH2559 E13.2
- 94 A7088 not seen
- 95 pF A7105, AX^{13.0}1928, AX^{13.1}776, AX^{13.1}2095 13.1✓
- 96 A7088 not seen
- 97 pB A6998 RH676 E13.2
- 99 A8022, RH2529 E13.2
- 100 A8022 not seen
- 105 A6136 not seen
- 108 pB A6998, RH676 E13.2
- 109 cF A7088, RH2559 E13.2
- 117 FS ~~A7401~~
- 125 pB A7401 AX1928 E13.2
- 126 vF ~~~~~
- 127 eF ~~~~~

0° to +30°

39

O^wX 128 CB A7401, AX^{13.1} 1928, AX^{12.9} 776, AX^{12.8} 2095-12.9 (d 4' 1.2')

130 VF ———

132 pB A7410, AX 1928 13.2

137 FS ———

138 pF A7410, AX 1928 13.2

139 F A7410 AX 1928 13.2

141 cFS ~~A7410~~

149 A6053, not seen.

160 pF MC 23824, AC 631 13.2

162 cFeS ———

164 eF ———

169 D, pF, pF, MC 23824 AC 631 13.2

170 FS ~~A7410~~

173 cF A7410, AX 1928 13.2

180 cF I34746, AX 1928 13.2

181 A6053, not seen

182 cF A7410, AX 1928 13.3

183 A6053, RH 676 13.2

184 A6053, not seen.

186 pF A7410, AX 1928 13.2

190 I34746 not seen

192 pB A7419, AX 1928 13.2

193 pB A7410, AX 1928 13.2

194 pB A7410, AX 1928 13.2

196 pB A7410, AX 1928 13.2

197 FS ~~A7410~~

198 pF A7410, AX 1928 13.2

199 cFS ~~A7410~~, AX 1928 13.2

200 pF A7410, AX 1928 13.2

201 cF A7410, AX 1928 13.2

O^h (contd)202 F₅ A7410

203 CFS A7410

204 pF₅ A7410

208 VF ~~~~~

211 neb. star

213 CF MC 19038 RH 594 ϵ 13.2X 214 pF MC 18933, AC ^{12.7}631, RH ^{12.8}2572, AC ^{12.9}3191 12.8✓219 pF₅ A7410223 pB A7410, AX 1928 ϵ 13.2228 MC 23824, AC 631, RH 2572 ϵ 13.2229 MC 23824, AC 631, RH 2572 ϵ 13.2233 pB A6053 RH 676 ϵ 13.2234 CF I 29566 RH 594 ϵ 13.2236 F A7410, AX 1928 ϵ 13.2

240 I 34746, not seen.

243 A6053 RH 676 ϵ 13.2(O^h 40)

250 MC 20044 not seen

251 pF RH 594 ϵ 13.2252 pB A6053 RH 2572 ϵ 13.2257 CF MC 20044, AX 1928 ϵ 13.2

258 eF ~~~~~

260 CF A6053 RH 2572 ϵ 13.2

280 VF ~~~~~

282 MC 20128, RH 2572 ϵ 13.2304 A2155 RH 2572 ϵ 13.2

305 Cluster - Reim.

311 pB-F MC 20128, RH 2572 ϵ 13.2

313 stars Reim.

315 pB MC 20128, RH 2572 ϵ 13.3

0° to +30°

41

O^h (cont'd)

316 star, Reim.

318 CFVS ~~~~~

326 F, ES MC 20129

332 MC 20044 AX 1928 E13.2

338 MC 20128 RH 2572 E13.2

354 A 2155, RH 594 E13.2

✓

✓

42

	1w		
	391	pF, VS	MC 51
	396	eF	~~~~~
X	428	pF	I 25925, MC 20117, AX ^{11.8} 2066, AX ^{11.8} 1846, AX ^{11.7} 1883 <u>11.8</u> ✓
	435	F, VF	~~~~~
	437		MC 16901 not seen.
	445	CF, VS	~~~~~
	446	CF, S	~~~~~
	455	pF, B	MC 16901, AX 2066 c13.2
	459	eeF	~~~~~
	462	eeF	~~~~~
	463	eF	~~~~~
	467	pF, B	I 25925, MC 20117, AX 2066 c13.2
	469	CF, S	MC 20095
X	470	pF, F	I 25925, MC 20117, AX ^{12.6} 2066, AX ^{12.3} 1846, AX ^{12.1} 1883 <u>12.3</u> ✓
	471	VS	MC 20095
	473	pF, B	MC 20095, RH ^{13.1} 594, RH ^{13.1} 783, RH ^{13.0} 2566 <u>13.1</u> ✓
X	474	pB	I 25925, MC 20117, AX ^{12.8} 2066, AX ^{12.5} 1846, AX ^{12.2} 1883 <u>12.5</u> ✓
	475	es	MC 20095
	476	vF	~~~~~
	479	vF	~~~~~
	485	CF, pF	I 24308, RH 594 c13.2
	486	eeF, es	~~~~~
X	488	!CB	MC 16901, AX ^{11.6} 2066, AX ^{11.6} 1846, AX ^{11.7} 1883 <u>11.7</u> ✓
	489	pB	MC 16901, I 24308, RH 594 c13.2
	490	vF	~~~~~
	492	CF	~~~~~
	493	CF	I 25925, MC 20117, AX 2066 c13.3
	500	F, VS	MC 16901
	502	pB	MC 16901, I 24308, RH 594 c13.3
	505	CF	MC 16901, I 24308, RH 594 c13.3

0° to +30°

509	CF	MC16901, I 24308, RH 594 ϵ 13.2	
511	CF-F	I 24308, RH 594 13.2	
X 514	CF	A 4745, RH ^{12.4} 594, AY ^{12.4} 1769, RH ^{12.5} 2566	$\overline{12.4}^{\vee}$ low s.b. large.
516	CF-F	MC16901 I 24308 RH 594 ϵ 13.3	
518	CF	MC16901, I 24308, RH 594 ϵ 13.2	
X 520	PB	I 25925, MC 20117, AX ^{12.3} 2066, AX ^{12.4} 1846, AX ^{12.0} 1846	$\overline{12.2}^{\vee}$ i.c. 9
521	CF	I 25925, MC 20117, AX ^{12.8} 2066, AX ^{13.0} 1846, AX ^{13.0} 1833	$\overline{12.9}^{\vee}$ 13
522	F	MC16901 I 24308, RH 594 ϵ 13.2	
X 524	VB	MC 16901 I 24308, RH ^{12.1} 594, AY ^{11.9} 1769, RH ^{12.2} 783	$\overline{12.0}^{\vee}$
525	CF-S	MC16901	
532	CF	MC16901 I 24308, RH 594 ϵ 13.2	
533	PB	I 25925, MC 20117, AX ^{12.8} 2066, AX ^{13.2} 1846, AX ^{12.9} 1833	$\overline{13.0}^{\vee}$
550	PB	I 25925, RB 21, AX 2066	
569	CF	I 24308, RH 594 ϵ 13.2	
575	CF	MC16901	
588	PF	part of N 598, M 33.	
592		knots in M 33.	
595		knots in M 33	
X 598	eeL !!!VB	A 6054 AI ^{7.4} 26689, AY ^{8.0} 1770, AI ^{8.0} 27026 [AI ^{8.0} 27573, AI ^{7.5} 25745, AI ^{7.6} 27577]	$\overline{7.8}^{\vee}$
603		A 6054 - stars Remin.	
606	eeFS	Dreyer A 7089 AY 1769 ϵ 13.2	
X 628	!!!PF	A 6148, RH ^{11.2} 594, AY ^{11.0} 1769, RH ^{11.3} 2566	$\overline{11.2}^{\vee}$ large spiral, ft. arms.
631	FS	A 7431	
632	PB	A 7431, AX 2066 ϵ 13.2	
638	VF	ps, Dreyer A 7431, AX 2066 ϵ 13.2	
645	F	A 7431, AX 2066 ϵ 13.2	
652	eeF, ps	Dreyer A 7431, AX 2066 ϵ 13.2	
656	PB	A 6054 RH 1716 ϵ 13.2	
658		MC 20292 RH 2566 ϵ 13.2	
660	F	MC 20292, RH ^{13.0} 2566, AC 5694 13.3.	
661	PB	A 6054, RH 1716 ϵ 13.2	

44

(Plates, ex. AX, prof for this region)

h (cont'd)

664	F	MC 16902, AX 2066	13.2		
665	pB	MC 20292, RH 2566	13.2		✓
670	pB	A 6054, RH ^{12.7} 1716, RH ^{13.0} 1544, RH ^{13.2} 1001		13.0	✓
671	cf, pS, Dreyer	MC 20292, RH 2566	13.2		✓
X 672	pB	A 6054, RH ^{12.0} 1716, RH ^{12.0} 1544, RH ^{11.7} 1001		11.9	
673	PF	MC 20292, RH 2566	13.2		
674		Not found, ? = #697 - Rein.			
675	uf, S, Dreyer	MC 20292, RH 2566	13.2		
(676) *Note	B	MC 16902, AX ^{10.7} 2066, AX ^{10.5} 1846, AX ^{10.6} 1833		10.6	What is this?
677	ccF, S, Dreyer	MC 20292, not seen.			
678	PF-pB	A 8023, RH 2566	13.2		
680	pB-pB	A 8023, RH ^{13.1} 2566, AC 5694	13.1		
683	PF, S	MC 20292			
684	pB	A 6054, RH 1716	13.2		
691	PF	A 8023, RH 2566	13.2		
693	PF	MC 16902, AX 2066	13.2		
694	pB	A 8023, RH 2566	13.2		
695	PF-pB	A 8023, RH 2566	13.2		
697	PF	A 8023, RH 2566	13.2		
706	PF-cF	MC 16902, AX 2066	13.2		
711		uf, vS, Dreyer A 4150 not seen			
716		MC 20292, RH 2566	13.2		
X 718	pB	MC 16902, AX ^{12.4} 2066, AX ^{12.8} 1846, AX ^{13.0} 1833		12.8	✓ d 10: 0.4
719	FS	A 4150			
722	cf	A 4150, RH 2566	13.2		
728	?ccF	~~~~~			
730		MC 16902, AX 2066	13.2		
741	pB	MC 16902, AX ^{12.9} 2066, AX ^{13.1} 1846, AX ^{12.9} 1833		13.0	✓
742	F, S	~~~~~			
765	PF-cF	A 8023, RH 1716	13.2		
I 1727		A 6054 not seen.			

(contd)

 0° to $+30^\circ$

- 766 CFS MC770
 770 pFVS A4150
 X 772 !pB A 4150, RH ^{12.0}2566, AC ^{12.2}2144, AC ^{11.7}5694 12.0 ✓
 774 CFS ~~A9078~~
 776 pF A8023 RH 1716 C13.5
 780 CF MC20034, RH 1716 C13.0
 781 CF A9078, RH 2566 C13.2
 784 CF MC20034, RH 1001 C13.2
 786 pF A4150 RH 2566 C13.2
 791 CFS ~~A4150~~
 792 pF ~~A4150~~, RH 2566 C13.2
 794 CFS ~~A4150~~
 803 pF A4150, RH 2566 C13.2
 805 FS ~~MC20034~~
 807 pFS ~~MC20034~~
 810 FS ~~A9078~~
 ✓ ✓
~~IC 180 A8023~~

NGC. 676, G.C. 400.

* Note: On AX, RB, I, and MC plates this looks stellar, with no trace of nebulosity.

Herschel, P.T. for 1833, plate 14, Fig 58. shows small stellar nucleus with elongated faint nebulosity: (✓)

See Holetschek, Wien xx pg. 43.

Hubble, Mt. W. Cont. 324 Table III.

Letter from Hubble confirms star + faint neb. Apr 1931.

46

2h

(Plates, except AX poor for this region)

	816	F,S	MC 20034			
	817	ef,vs	Drayer A4150	not seen		
	819	CF	MC 20034	RH 1001	13.2	
	820	PB	MC 11416	RH 2566	13.2	
X	821	CB	A 9078	RH ^{12.6} 2566	AC ^{12.8} 5694, AX ^{12.8} 2066	12.7 ✓
	825	PF	I 29568	AX 2066	13.2	
	827	PF	MC 770	AX 2066	13.2	
	831	F,S	~~~~~			
	840	CF	MC 770	AX 2066	13.2	
	844	ef,vs	~~~~~			
	851	ef,ps,udiffic	Drayer I 29568	AX 2066	13.2	
	855	CF	MC 20449	RH 1001	13.2	
X	864	!PF,PB	I 29568	AX ^{12.4} 2066	AX ^{12.0} 1846, AX ^{12.2} 1883	12.2 ✓ h. d. att. s. low, s. h.
	865	F	MC 20449	RH 1001	13.2	
	867	VF	~~~~~			
	870	eeF	~~~~~			
	871	PB	MC 11416	RH 2566	13.2	
	875	ef,vs	~~~~~			
	876	eeF	~~~~~			
X	877	PB,PF	MC 11416	RH ^{12.5} 2566	AC ^{12.2} 5694, AC ^{12.4} 5339	12.4 ✓
	882	F,vs	MC 11416			
	900	CF,vs	A 7090			
	901	F,VF	A 7090			
	903	ef,cs	Drayer A7090	not seen		
	904	VF,vs	Drayer A7090	not seen		
	915	F,S	A 7090			
	916	F,S	A 7090			
	918	CF	A 3872	RH 2566	13.2	
	919	F,S	A 7090			
	924	CB	A 4039	RH 2566	13.2	

2^h(cont'd)

0° to +30°

927		MC 11416 RH 2566 E13.2	
928	F	A 7090, not seen.	
930	CF	MC 20235	
932	CB	A3872 RH 2566 E13.2	
935		A3872 RH 2566 E13.2	
938	CB	A 3872 RH 2566 E13.2	
953	CF, FS	A 7090	
962	PF, VS	MC 20235	
X 972	PB	A 7090, RH ^{12.8} 1001, RH ^{12.8} 1716, RH ^{12.2} 1244	<u>12.6</u> ✓
975		MC 20047 RH 2566 E13.2	
X 976	PB, CB	A4039 RH ^{12.5} 2566, RH ^{12.8} 1712, AC ^{12.9} 5339	<u>12.7</u> ✓
984	CF	A4039, AC 5339 E13.2	
990	PB	MC 20047, RH 2566 E13.2	
992		A4039, AC 5339 E13.2	
993	CF, S	MC 20235	
994	eeF, S	Drayer MC 20235 AX 2066 E13.2	
997	PF, S	MC 20235	
998	F, VS	MC 20235	
1004		MC 20235 AX 2066 E13.2	
1007	CF	MC 20235	
1008	F, CF, S	MC 20235	
1009	eeF, S	Drayer MC 20235 AX 2066 E13.2	
ap. 1012	PF	A 7090, RH ^{12.9} 1001	
1016	PF	MC 20235 AX 2066 E13.2	
1019	VF, S	Drayer MC 20235 AX 2066 E13.2	
1020	F, S	MC 20235	
1021	VF	MC 20235	
1024	PB	MC 20047 RH 2628 E13.2	
1026	PF, S	MC 20235	
1028	VF	MC 20235	

48

2^h (contd)

(Plates except AX poor for this region)

1029	PF _B	A 6248 RH 26.28 13.2	
1030	UF	~~~~~	
1032	PB	MC 20235, AX 2066 13.2	
1036	PF _S	A 3872	
1038	ef, PS, Drayer	MC 20235 AX 2066 13.2	
1043	eeFS, u diffc. Drayer	MC 20235 not seen.	
1044	Fcf, VS	~~~~~	
1046	CF _S	MC 20047	
1054	F	A 3872 AC 5339, RH 26.26 13.2	
1056	PB	A 7090 RH 100.1 13.2	
1059		Double stars - Reins.	
1070	PF	I 24312 AX 2066 13.2	
X 1073	F	MC 20235, AX ^{12.2} 2066, AX ^{11.7} 1846, AX ^{12.0} 1883	12.0 ✓
1085	F, S	~~~~~	
1088	F, S	A 3872	
1095	F	I 24312, AX 2066 13.2	
1101	F, VS	~~~~~	
1107	PF _B	MC 19093, AX 2066 13.2	
1109		MC 20293 not seen	
1111		MC 20293 not seen	
1112		MC 20293 not seen	
1113		MC 20293 not seen	
1115		MC 20293 not seen	
1116		MC 20293 not seen	
1117		MC 20293 not seen	
1127	VF _S	~~~~~	
1128	ef _S , Drayer	MC 19093, AX 2066 13.2	
1134	PF	MC 20293, RH 26.28 13.2	
1137	uf _S , Drayer	I 24312 AX 2066 13.2	
1153	PF _B	I 24312 AX 2066 13.2	

0° to +30°

X 1156 CF A 4147 RH ^{12.9}2727, RH ^{12.7}2494, AC ^{13.0}1972 12.9 ✓
 1166 VFS
 1168 CF
 1170 A 6584, RH 2727 not seen.
 ✓ ✓

3h

1218 MC 19042, AX 2024 C13.2
 1219 CF MC 20097, AX 2024 C13.2
 1251 Double stars? nebulous-Kein. MC 19042
 1254 F MC 20097, AX 2024 C13.2
 1312 VF
 1349 MC 19095, AX 2024 C13.2
 1384 F, S
 1431 MC 19095 not seen
 1432 diffuse nebula.
 1435 F, V diffuse neb. around Messier
 1456 stars in diff. neby.
 1462 I 21398, AX 2024 C13.2
 1474 MC 11421, AX 2024 C13.2
 1488 not a neb. Kein.
 1497 CF-F, S, MC 17004, not seen.

50

3^h cont

1508

vFVS

~~~~~

✓

✓

4<sup>h</sup>

1517

MC 11421, AX 2024 E13.2

1539

F, S

~~~~~

1541

MC 18151, AX 2024 E13.2

1542

vF, S

~~~~~

1550

F-cF, S

~~~~~

1554

aeF, ph

Hind's variable nebulae.

1555

star, Rein.

1587

pF-pB, S

MC 18151 AX 2024 13.2

1588

cF, vS

~~~~~

1589

cF, ph

MC 18151, AX 2024 E13.2

1590

cF, S

~~~~~

1593

eF, vS

~~~~~

1608

F, S

~~~~~

1615

MC 20384, E13.2

1633

vF, cS

~~~~~

1634

F, vS

~~~~~

1642

cF, pS

MC 19044, AX 2024 E13.2

1647

Cluster, Rein.

1662

Cluster, Rein.

1663

Cluster

1674-5

MC 19365 not seen

4^h cont

0° to 430°

1690	vF, vS,	~~~~~
1691	pF, pS	MC 20164, AX 2024 E 13.2
1707		Cluster, Rein.
1746		} a very large Cluster, Rein.
1750		
1758		
1762	F, pS	MC 4524, AX 2024 E 13.2
✓	✓	

5^h

1802		Cluster Rein.
1807		Cluster Rein.
1817		Cluster Rein.
1819		MC 16574, AX 874 E 13.2
1875	eF, eS	~~~~~
1896		not a neb, Rein.
1952		Crab nebula,
1988		Star, Rein.
1996		Cluster, Rein.
2022		Planetary, Rein.
2026		not a neb. Rein.
2039		not a neb, Rein.

52

5^h (cont)

2045		star, Rein.
2063		not a neb. Rein.
2067	eF, vL	MC 24694, diffuse nebulosity.
2071		diffuse, Rein.
2112		cluster, Rein.
2119		MC 22794 [13.2]
2129		cluster, Rein.
2141		diffuse neby. Dreyer.
2143		cluster, Rein.
2158		cluster, Rein.
2163		diffuse - Dreyer.
✓	✓	

$0^{\circ} \text{ to } +30^{\circ}$

53

6 h.

- | | |
|------|------------------------------|
| 2168 | Cluster, Rein. |
| 2169 | Cluster, Rein. |
| 2174 | MC 13861 not seen. |
| 2175 | diffuse Rein. |
| 2180 | Cluster Rein. |
| 2186 | Cluster, Rein. |
| 2189 | not found, Rein. |
| 2194 | Cluster, Rein. |
| 2195 | diffuse A |
| 2198 | not a neb, Rein. |
| 2202 | Cluster, Rein. |
| 2218 | stars, Rein. |
| 2224 | not a neb, Rein. |
| 2234 | stars, Rein. |
| 2236 | Cluster, Rein. |
| 2237 | { diff neby. Rein. |
| 2238 | |
| 2239 | Cluster Rein. |
| 2244 | Cluster Rein. |
| 2245 | diffuse, Rein. |
| 2246 | diffuse, Rein. |
| 2247 | A 9102 not ex gal neb. |
| 2248 | stars, Rein. |
| 2251 | Cluster, Rein. |
| 2252 | Cluster, Rein. |
| 2254 | Cluster, Rein. |
| 2259 | Cluster, Rein. |
| 2261 | B, ch A 9102 not ex gal neb. |
| 2262 | Cluster, Rein. |
| 2264 | Cluster, Rein. |
| 2265 | stars, Rein. |

54

6^h cont.

2266	✓	Cluster, Rein.
2269		Cluster, Rein.
2270		stars, Rein.
2282		A429 not extragalactic:
2301		Cluster, Rein.
2304		Cluster, Rein.
2312		loose clustering, Rein.
2319	/	MC 23035 not a nebula.
2324		Cluster, Rein.
2331		Cluster, Rein.

✓

✓

7 h.

0° to +30°

X 2339	cF, pL	A 4132	AY ^{13.0} 1798, AY ^{12.9} 862, AY ^{12.4} 1861	<u>12.7</u> ✓
2341	pF, pB, vS	A 14631	AY 1798 E13.2	
2342	pF, pL	A 14631	AY 1798 E13.2	
2350	cF, cS	Mc 10182	AY 1798 E13.2	
2355		Cluster, Rein.		
2356		stars, Rein.		
2357		A 14631	AY 1798 E13.2	
2365	cF, ph	A 14631	AY 1798 E13.2	
2370	F, cS	A 14631	AY 1798 E13.2	
2371	} pB, ps	} Planetary (Pleasant?) } nebula ?		
2372				
2376	F, S	~~~~~		
2392		Planetary, Rein.		
2394		Cluster, Rein.		
2395		not found, Rein.		
2398		A 14631 not seen		
2399	F, vS	~~~~~		
2400	F, vS	~~~~~		
2402	cF, F, S	~~~~~		
2405	vF, cS	~~~~~		
2406		I 10898 not seen		
2407		I 10898 not seen		
2411		I 24184 not seen		
2412		H 222 Not seen		
2416	F, vF, cS	MC 274	AX 2191 E13.2	
2418	pB, cS	I 24184	AY 1798 E13.2	
2420		Cluster, Rein.		
2433	cF, vS	~~~~~		
2449	cF, pS	RH 46	AY 1232 E13.2	
2450		RH 46 not seen		
2454	cF, cS	A 8753	AY 1798 E13.2	

56

7^h cont

v

2459	stars, Rein.
2470	MC 18155 not seen
2480	eF, cS ~~~~~
2481	pB-cB, pS A 8766 AY 1232 ± 13.2
2485	cB, S MC 24170 AX 2191 ± 13.2
2486	cF, pS A 8766 AY 1232 ± 13.2
2487	cF, pL A 8766 AY 1232 ± 13.2
2490	cF, S ~~~~~
2492	eS ~~~~~
2496	MC 24170 not seen,
2498	A 8766 AY 1232 ± 13.2
2499	eF, cS ~~~~~
2503	eeF, pS ~~~~~
2504	cF, vS ~~~~~
2507	pF, pS A 8753 AY 1798 ± 13.2
2508	pF-pB, cS MC 24170 AX 2191 ± 13.2
2510	cF-pF, pS MC 24170 AX 2191 ± 13.2
2511	pF, cS MC 24170 AX 2191 ± 13.2
2512	pF, cS A 8766 AY 2191 ± 13.2
2513	pB, pS MC 24170 not seen
2514	A 8753 not seen
2515	stars, Rein.
2522	cF, S ~~~~~
2526	F, S ~~~~~
2529	A 8635, A 8753, not seen
2530	vF, pS ~~~~~
2531	A 8635 A 8753, not seen
✓	✓

0° to +30°

57

8h

2535 cF_{ph} A 8660 AY 1232 C 13.22536 cF_S —————2538 pF_{pS} A 1292 AY 2191 C 13.2

2540 A 8660 not seen

2545 pF_{pB,ph} A 8269 AY ^{12.9}1232, AY ^{12.8}1344, AY ^{13.2}54113.0 ✓2553 F_S —————2554 pB_{cB,cS} A 8269 AY 2191 C 13.22555 cF_{pF,pS} A 1292 AY 2191 C 13.22556 vF_{eS} —————2557 pF_{cS} A 8269 AY ^{13.1}1232, AY ^{13.3}1344 AY 541 —2558 vF_{ph} A 8269 AY 1232 C 13.22560 cF_{pS} A 8269 AY 1232 C 13.2

2561 A 1292 not seen

2562 pB_{cS} A 8269 AY 1232 C 13.22563 pB_{pS} A 8269 AY 1232 C 13.2

2565 A 8269 not seen

2569 F_S —————2570 eF_{pS} —————2572 vF_S —————

2575 A 8269 AY 1232 C 13.2

2576 F_{ph} A 8666 AY 1232 C 13.22577 pB_{cB,cS} A 8269 AY 1232 C 13.2

58

8^h (cont)

2581	A8645 not seen
2582	F _{ph} A8269 AY ₁₂₃₂ E13.2
2592	cB _{ph} A8666 AY ₁₂₃₂ 13.4
2593	vF _S ~~~~~
2594	pB _{ph} A8666 AY ₁₂₃₂ E13.2
2595	F _{ph} A8269 AY ₁₂₃₂ E13.2
2596	F _{ph} A8645 AY ₂₂₅₅ E13.2
2597	not found, Rein.
2598	cF _{ph} A8269 AY ₁₂₃₂ E13.2
2599	pB _S A7203 AY ₁₂₃₂ ^{13.2} AY ₁₃₄₄ ^{13.1} AY ₅₄₁ —
2607	F _{ph} A8666 AY ₁₂₃₂ E13.2
X 2608	pF _{ph} I28439 AY ₁₂₃₂ ^{12.8} AY ₁₃₄₄ ^{12.9} AY ₅₄₁ ^{13.1} <u>12.9</u> ✓
2611	F _S ~~~~~
2618	vF _{ph} A428 AY ₂₁₉₁ E13.2
2619	pB _{ph} I28439 AY ₁₂₃₁ E13.2
2620	vF _{ph} A8666 AY ₁₂₃₂ E13.2
2621	F _{eS} ~~~~~
2622	cF _{ph} ~~~~~
2623	A8666 AY ₁₂₃₂ E13.2
2624	pF _{ph} ~~~~~
2625	pF _{ph} ~~~~~
2628	cF _{ph} A7203 AY ₁₂₃₂ E13.2
2632	Cluster, Praesepe Cancri, M44. A7203
2637	vF _{ph} ~~~~~
2643	not found, Rein.
2644	ME14395 AX ₂₁₉₁ E13.2
2647	cF _{ph} ~~~~~
2648	cB _{ch} I24488 AX ₂₂₅₅ 13.2
2651	vF _S ~~~~~
2657	I24488 AX ₂₂₅₅ E13.2

0° to +30°

8 conf

✓

(40)	2661	cFph	I 244 88	AX 2255	13.2	
	2664		Cluster, Rein.			
	2667	pF,S	~~~~~			
X	2672	pB,pS	A 9236	AX ^{12.6} 2255, AY ^{12.8} 1340	AY ^{12.5} 499	<u>12.6</u> ✓
	2673	cF,vS	~~~~~			
	2677	F,S	~~~~~			
	2678		stars, Rein.			
	2682		Cluster, Rein.			
	2711	pF,vS	~~~~~			
X	2713	pB,clw	A 7238	AX ^{12.9} 2191, AX ^{12.6} 2210, AX ^{12.6} 2108		<u>12.7</u> ✓
	2716	pB-cB,eS	A 7238	AX 2191	13.2	
	2718	pF,pS	MC 21737	AX 2255	13.2	
	2720	cF,vS	~~~~~			
	2723	pF,vS	~~~~~			
	2725	cF,pS	MC 21726	AX 2255	13.2	
	2728	vF,S	~~~~~			
	2729	F,vS	~~~~~			
	2730	F,ph	A 8283	AX 2255	13.2	
	2731	F,pS	MC 21737	AX 2255	13.2	
	2734	vF,S	~~~~~			
	2735		MC 19288	AY 1232	13.2	
	2737	pF,pB,pS	MC 19343	AX 2255	13.2	
	2738	pF,ph	MC 19343	AX 2255	13.2	
	2741	eS	~~~~~			
	2743	pF,pS	MC 19288	AY 1232	13.2	
	2744	pB,ph	A 8283	AX 2255	13.2	
	2745	cF,vS	~~~~~			
	2747	F,S	~~~~~			
	2749	pB,eS	A 8283	AX ^{13.2} 2255, AY ^{13.2} 1340, AY ^{13.0} 499		<u>13.1</u> ✓
	2750	pF,ph	MC 19288	AY 1232	13.2	

60

8^h cont

2751 F, S ~~~~~
 2752 cF, ph A 8283 AX 2255 ϵ 13.2
 2753 pB, p, cS MC 19288 AY 1232 ϵ 13.2
 2761 cF, p, cS A 8283 AX 2255 ϵ 13.2
 ✓ ✓

AY plates poor for this hour.

9^h .

2764 pF, pB, pS MC 19343 AX ^{13.1}2255 AY ^{13.3}1340 AY ^{13.4}499 $\overline{13.3}$ ✓
 2765 pB, cB, pS A 7238
 2773 pF, pB, S ~~~~~
 2774 pF, S ~~~~~
 X 2775 vB, L MC 2859, AX ^{11.3}2255 AY ^{11.6}1340 AY ^{11.5}499 $\overline{11.5}$ ✓
 2777 pB, cS MC 2859, not seen
 2786 not found, Rein.
 2790 pB, pF, S A 8283 AX 2255 ϵ 13.2
 2791 F, S ~~~~~
 2794 pF, cS A 8283 AX 2255 ϵ 13.2
 2795 pF, S ~~~~~
 2797 pF, S ~~~~~
 2801 F, cS A 8283 AX 2255 ϵ 13.2
 2802 pF, vS ~~~~~
 2803 pF, vS ~~~~~

9^h cont.

✓

0° to +30°

2804 pF,S
 2806 eS,R
 2807 cF,S
 2809 pF,S
 2812 F,eS
 2813 cF,vS
 2819 pB,vS A 8283 AX 2255 13.2
 2824 pB,vS MC 19288 AY 1008 13.2
 2843 eF,S
 2858 pF,S
 2861 cF,pS A 5171 not seen
 2862 cF,pw MC 19288 AY 1008 13.2
 2864 vF,pS
 2871 F,eeS
 2872 cB,pS MC 21726 AX 2255 13.2
 2873 eeF,cS
 2874 pB-pF,pw MC 21726 AX 2255 13.2
 2875 part of N 2874
 2877 cF,vS
 2878 vF,cS
 2882 cF,pS A 7208, AX 2255 13.2
 2885 pF,vS
 2894 cF,pS A 7208 AX 2255 13.2
 2896 F,vS
 2897 vF,cS
 2898 F,S
 2900 A 5171 not seen

X 2903 } llcB MC 15750 AX ^{10.3}2255, AY ^{10.0}1340, AY ^{10.5}499 10.3 ✓
 2905 } vW part of N 2903
 2906 pF,pw A 7208 AX ^{13.0}2255, AY ^{13.4}1340 AY 499 —

62

9^h cont

2911 pF,cF,pS MC15768 AX ^{12.9}2255, AY ^{13.1}1340, AY ^{13.4}499
 2912 eeF,vS ~~~~~
 2913 F,pS A7208 AX 2255 C13.2
 2914 pF,vS ~~~~~
 2916 pB,ph MC15750 AX 2255 C13.3
 2919 F,pL MC15768 AX 2255 C13.2
 2923 cF,S ~~~~~
 2927 cF,pS MC15750 AX 2255 C13.2
 2928 cF,pS MC15751, ~~AX16429~~, not seen.
 2929 pF,pS, MC15750 AX 2255 C13.2
 2930 pF,S ~~~~~
 2931 pF,eS MC15750 AX 2255 C13.2
 2933 pF,pS MC15751 AX 2255 C13.2
 2934 star, Rein.
 2936 cF,pS A5171 AX1590 C13.2
 2937 star, Rein.
 2939 cF,ph A7208 AX 2255 C13.2
 2940 A7208 not seen.
 2941 pF,cS MC15751 not seen.
 2943 pB,cS MC15751 AX 2255 C13.2
 2946 pF,pS MC15751 not seen.
 2948 cF,ph. A7208 AX 2255 C13.2
 2949 cF,S ~~~~~
 2951 D.eF,S and cF,eS ~~~~~
 2953 identity doubtful, eeF? ~~~~~
 2954 pB,S MC15751 AX 2255 C13.2
 2958 MC15768 AX 2255 C13.2
 2960 pB,S A5171 AX1590 C13.2
 X 2962 pB,ph A7208 AX ^{12.9}1590, AX ^{13.0}1676, AX ^{12.9}2166
 2966 A7208 AX1590 C13.2

13.1

12.9

0° to +30°

q ^h cont.	✓				
X 2967	pF,ph	A5171	AX ^{12.4} ₁₅₉₀ , AX ^{12.3} ₁₆₇₆ , AX ^{12.4} ₂₁₆₆	<u>12.4</u> ✓	
2984		not found, Rein.			
2987		A7208	AX ₁₅₉₀ ≤ 13.2		
2988	vS	~~~~~			
2990	pB,pS	A7208	AX ^{13.0} ₁₅₉₀ AX ^{12.9} ₁₆₇₆ AX ^{13.1} ₂₁₆₆	<u>13.0</u> ✓	
2991	pB,S	A7204			
2994	pB,pS	A7204			
3015	cF,vS	~~~~~			
3016	pB,pS	MC 21727	AX ₂₂₅₅ ≤ 13.2		
3018		A7219	AX ₁₅₉₀ ≤ 13.2		
3019	F,S	~~~~~			
3020	pF,ph	MC 21727	AX ₂₂₅₅ ≤ 13.2		
3023		A7219	AX ₁₅₉₀ ≤ 13.2		
3024	pF,ph	MC 21727	AX ₂₂₅₅ ≤ 13.2		
3026		A6711	AY ^{12.9} ₁₀₀₈ AY ^{13.3} ₅₉₃ AY ^{13.5} ₁₉₄₈		
X 3032	pB-vS	A6711	AY ^{13.6, 12.9 = 12.8} ₁₀₀₈ AY ^{13.1} ₅₉₃ AY ^{12.5} ₁₉₄₈ 12.8 <u>12.7</u> ✓		(MC 1935-5 6.10, 0.3)
3039	vF,pS	~~~~~			
3040		A7204	not seen		
X 3041	pF,clv	I 24186	AX ^{12.8} ₂₂₅₅ AY ^{12.6} ₁₃₄₀ AY ^{12.6} ₄₉₉	<u>12.7</u> ✓	
3042	pF,cS	A7219	AX ₁₅₉₀ ≤ 13.2		
X 3044	pF,L	A7219	AX ^{12.7} ₁₅₉₀ AX ^{12.5} ₁₆₇₆ AX ^{12.5} ₂₁₆₆	<u>12.6</u> ✓	s: b1 6.0
3048	cF,S	~~~~~			
3049		MC 12011	AX ₁₅₉₀ ≤ 13.2		
3053	pF,cS	I 24186	AX ₂₂₅₅ ≤ 13.2		
X 3055	pB,ph	A7219	AX ^{12.5} ₁₅₉₀ AX ^{12.6} ₁₆₇₆ AX ^{12.4} ₂₁₆₆	<u>12.5</u> ✓	
3060	pF,ph	I 24186	AX ₂₂₅₅ ≤ 13.2		
3062	F,vS	~~~~~			
3068	vF,cS	~~~~~			
3069	cF,S	~~~~~			
3070	cB,cS	MC 21727	AX ₂₂₅₅ ≤ 13.2		

64

q^h (cont.)

3075 cF_{ph} I 24186, AX 2255 ± 13.2
 3080 cF_{rs}
 3088 cF_s
 3094 I 24186 AX 2255 ± 13.2
 X 3098 pB_{ps} A 6711 ^{13.1, 12.8 = 13.0}, AY 1008 ^{13.0}, AY 593 ^{12.9}, AY 1948 13.0 92.9 (e3 1.3)
 3107 pB_{ps} I 24186 AX 2255 ± 13.2
 3117 A 7219 AX 1590 ± 13.2
 3119 cF_{rs}
 3121 pB_{cs} I 24186 not seen.
 3123 not found. Reimannth.
 ✓ ✓

$0^{\circ} + 30^{\circ}$

AY plates poor.

10 h

3129		not found.				
3130	F, S	~~~~~				
3131	pF, pB, pW	MC 15430 AY 1403 $\epsilon 13.2$				
3134		A8578 not seen				
3153	pF, pW	A8578 AY 1403 $\epsilon 13.2$				
3154		MC 15430 AY 1403 $\epsilon 13.2$				
* 3156	pB, pS	I 24188 AX ^{13.0} 2166, AX ^{13.1} 1590, AX ^{13.2} 1676			$\overline{13.1}$ ✓	
3165	vF, pS	~~~~~				
X 3166	B, W	I 24188 AX ^{11.6} 2166, AX ^{11.7} 1590, AX ^{11.6} 1676			$\overline{11.6}$ ✓	
X 3169	cB, W	I 24188 AX ^{11.9} 2166, AX ^{12.0} 1590, AX ^{11.8} 1676			$\overline{11.9}$ ✓	
X 3177	B, pS	MC 15429 AY ^{12.7, 12.9 = 12.8} 1008, AY ^{12.6} 593, AY ^{12.9} 1351			$\overline{12.8}$ ✓	(d 10 0.5)
X 3185	pB, pW	MC 15429 AY ^{12.5, 12.7 = 12.6} 1008, AY ^{12.8} 593, AY ^{12.6} 1351			$\overline{12.7}$ ✓	
3186	pB, cS	MC 21206 AX 2166 $\epsilon 13.2$				
3187	F, pW	MC 15429 AY 1008 $\epsilon 13.2$				
X 3189	B, cW	MC 15429 AY ^{12.1, 12.5 = 12.3} 1008, AY ^{12.0} 593, AY ^{11.9} 1351			$\overline{12.0}$ ✓	
3190					12.1	
X 3193	vB, pS	MC 15429 AY ^{12.5, 12.7 = 12.6} 1008, AY ^{12.6} 593, AY ^{12.3} 1351			$\overline{12.5}$ ✓	
3196	eeF, cS	~~~~~				
3204	pF, pS	not covered by large scale plate; AY 1008 not seen.				
3209	pF, vS	~~~~~				
3213		A7231 AY 1403 $\epsilon 13.2$				
3216	cF, S	~~~~~				
3217		A7671 not seen.				
3221	cF, cW	A7231 AY 1403 $\epsilon 13.2$				
3222	cB, cS	A7231 AY 1403 $\epsilon 13.2$				
3226	cB, pS	A7231 AY ^{12.7} 1403, AY ^{13.0} 1433, AY ^{12.9} 1416			$\overline{12.9}$ ✓	
X 3227	cB, cW	A7231 AY ^{12.3} 1403, AY ^{12.6} 1433, AY ^{11.8} 1416			$\overline{12.2}$ ✓	
3229	eS	~~~~~				
3230	pB, pW	A7671, AY 1403 $\epsilon 13.2$				
3232	F, cS	MC 16651 AY 1008 $\epsilon 13.2$				

* See end of hour for 3162

66

AY plates poor

10^h cont.

	3234	not found, Rein.	
	3235	pF, S	
	3239	cF, ph MC 16656 AY 1403 $\Sigma 13.2$	
X	3245	vB, ph MC 16651 AY ^{12.0} 1008, AY ^{11.7} 593, AY ^{12.2} 1351	$\overline{12.0}$ ✓
	3246	cF, ph I 32642 AX 2166 $\Sigma 13.2$	
	3248	pB, cS A 7231 AY 1008 $\Sigma 13.2$	
	3251	cF, ph MC 16651 AY 1008 $\Sigma 13.2$	
	3253	A 7671 AY 1403 $\Sigma 13.2$	
	3265	pB, S MC 16651 AY 1008 $\Sigma 13.2$	
	3270	F, ch MC 16651 AY 1008 $\Sigma 13.2$	
	3272	eeF, S	
	3274	pF, ph MC 16651 AY ^{12.9} 1008, AY ^{13.1} 593, AY ^{13.0} 1351	$\overline{13.0}$ ✓
X	3277	cB, pS MC 16651 AY ^{12.6} 1008, AY ^{12.7} 593, AY ^{12.7} 1351	$\overline{12.7}$ ✓
	3279	A 7671 AY 1403 $\Sigma 13.2$	
X	3287	F, ph A 7231 AY ^{12.6} 1008, AY ^{12.7} 1351, AY ^{13.0} 593	$\overline{12.8}$ ✓
	3299	vF, ph	
	3300	pF, pS A 7671 AY ^{13.0} 1403, AY ^{13.1} 1433, AY ^{13.2} 1416	$\overline{13.1}$ ✓
X	3301	cB, ch A 7231 AY ^{12.6, 12.2} 1008, AY ^{12.4} 1351, AY ^{12.3} 593	$\overline{12.2}$ ✓
	3303	cF, cS MC 16656 AY 1403 $\Sigma 13.2$	
	3306	A 7671 AY 1403 $\Sigma 13.2$	
	3323	MC 16651 not seen	
	3325	I 32642, not seen	
	3326	F, S	
	3327	cF, S	
	3328	A 8284 AY 1403 $\Sigma 13.2$	
	3332	pF, S	
	3337	vF, vS	
X	3338	pF, L A 7671 AY ^{12.8} 1403, AY ^{12.3} 1433, AY ^{12.0} 1416	$\overline{12.1}$ ✓
	3339	eS	
	3340	pF, pS I 32642 not seen	

AY plate poor.

10^h cont

3341	F,cS	A 8284	AX 1590	$\Sigma 13.2$	
3342		not found, Rein.			
X 3344	!pB,w	MC 16651	AY ^{11.5, 12.5} ₁₀₀₂	AY ^{12.0} ₅₉₃ , AY ^{11.3} ₁₃₅₁	$\overline{11.5}$ ✓ 11.7
3345	F,cS	A 7671	AY 1403	$\Sigma 13.2$	
X 3346	cFchw	A 6655	AY ^{12.4} ₁₄₀₃ , AY ^{12.4} ₁₄₃₃ , AY ^{12.3} ₁₄₁₆		$\overline{12.4}$ ✓
3349	cF,vS	~~~~~			
X 3351	!!B,vw	A 7671	AY ^{11.7} ₁₄₀₃ , AY ^{11.4} ₁₄₃₃ , AY ^{11.3} ₁₄₁₆		$\overline{11.5}$ ✓
3352		A 7231	AY 1403	$\Sigma 13.2$	
3356	pF,ph	A 8284	AX 1590	$\Sigma 13.2$	
3357	pF,S	~~~~~			
3362	pF,pS	A 8284	AX 1590	$\Sigma 13.2$	
3363		A 7671 not seen			
3365	vF,FL	~~~~~			
X 3367	!pB,ph	A 7671	AY ^{12.5} ₁₄₀₃ , AY ^{12.5} ₁₄₃₃ , AY ^{12.0} ₁₄₁₆		$\overline{12.3}$ ✓
X 3368	!!vB,vw	A 7671	AY ^{10.5} ₁₄₀₃ , AY ^{10.7} ₁₄₃₃ , AY ^{10.3} ₁₄₁₆		$\overline{10.5}$ ✓
X 3370	cB,cw	A 6655	AY ^{12.8} ₁₄₀₃ , AY ^{12.2} ₁₄₃₃ , AY ^{11.9} ₁₄₁₆		$\overline{12.3}$ ✓
3371		not found, Rein.			
3373		not found, Rein.			
3376	pF,cS	A 8284	not seen		
X 3377	B,ph	A 7671	AY ^{11.8} ₁₄₀₃ , AY ^{11.7} ₁₄₃₃ , AY ^{11.3} ₁₄₁₆		$\overline{11.6}$ ✓
X 3379	!vB,cw	A 7671	AY ^{10.7} ₁₄₀₃ , AY ^{11.0} ₁₄₃₃ , RH ^{11.0} ₇₇₉		$\overline{10.9}$ ✓
3380	pB,pS	MC 16651	AY 1002	$\Sigma 13.2$	
X 3384	!vB,w	A 7671	AY ^{11.1} ₁₄₀₃ , AY ^{11.4} ₁₄₃₃ , RH ^{11.5} ₇₇₉		$\overline{11.3}$ ✓
3385	pF,cS	A 8581	AX 1590	$\Sigma 13.2$	
3386	cF,vS	~~~~~			
3387		not found, Rein.			
3388		A 8581 not seen			
X 3389	pF,ph	A 7671	AY ^{12.4} ₁₄₀₃ , AY ^{12.7} ₁₄₃₃ , RH ^{12.9} ₇₇₉		$\overline{12.7}$ ✓
3391	pF,cS	A 7671	AY 1403	$\Sigma 13.2$	
3399	pF,vS	~~~~~			

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10^h cont.

	3400	pB,PS	MC 21348	AY 1008	13.2	
	3401		A8581	not seen		
	3405	cF,VS	~~~~~			
X	3412	B,chw	MC 16765	AY 1403 ^{11.3} , AY 1433 ^{11.9} , RH 779 ^{11.7}		<u>11.6</u> ✓
X	3414	B,ph	MC 21348	AY 1008 ^{12.2, 12.4} , AY 593 ^{12.3} , AY 1351 ^{11.8, 12.2}		<u>12.1</u> ✓
	3417	F,S	~~~~~			
	3418	pF,PS	MC 21348	AY 1008	13.2	
	3419	pB,S	MC 16765	AY 1403	13.2	
X	3423	pF,chw	A8581	AX 1590 ^{12.0} , AX 1676 ^{11.8} , AX 2166 ^{11.9}		<u>11.9</u> ✓
	3425	pF,S	A8581	AY 1403	13.2	
	3426		A6655	AY 1403	13.2	
	3427		A8581	AY 1403	13.2	
	3428	eF,VS	~~~~~			
	3429		A8581	not seen		
X	3433	cF,ph	MC 16765	AY 1043 ^{12.8} , AY 1433 ^{13.0} , RH 779 ^{13.0}		<u>12.9</u> ✓
	3434	pF,PS	I 24690	AX 2166	13.2	
	3436		A8581	not seen		
X	3437	pB,ph	MC 20322	AY 1403 ^{12.8} , AY 1433 ^{12.6} , RH 779 ^{12.6}		<u>12.7</u> ✓
	3438	pF,S	MC 16765	AY 1403	13.2	
	3439	F,VS	~~~~~			
	3441		A8581	AY 1043	13.2	
	3443		A6655	AY 1043	13.2	
	3444	vF,PS	~~~~~			
	3447	vF,ph	A6655	AY 1403	13.2	
	3451	pF,ph	MC 21348	AY 1008	13.2	
	3454	cF,ph	A6655	AY 1403	13.2	
	3455	pF,PS	A6655	AY 1403 ^{13.1} , AY 1433 ^{13.3} , RH 779 ^{12.8}		<u>13.1</u> ✓
	3457	pB,CS	A6655	AY 1403	13.2	
	3460		Same as 13457 - Reinv.			
	3461		A6655	not seen		

10^h cont.

0° to +30°

3462	pF,S	-----				
3466	pF,PS	MC 22448	AY 1403	13.2		
3467	pB,S	MC 22448	AY 1403	13.2		
3473	vF,cS	-----				
3474		A6655	AY 1403	13.2		
3475	pF,cS	MC 20322	AY 1403	13.2		
3476	see F,S	-----				
3477	vF,S	-----				
3480		A8581	not seen			
X 3485	cF,ph	A6655	AY 1403 ^{12.7}	AY 1433 ^{13.0}	RH 779 ^{12.6}	<u>12.8</u> ✓
X 3486	!!cB,vh	MC 21348	AY 1008 ^{11.3, 11.8}	AY 593 ^{11.5}	AY 1351 ^{11.3}	<u>11.4</u> ✓ 11.5
3487		A6655	AY 1403	13.2		
X 3489	vB,ph	MC 16765	AY 1403 ^{11.3}	AY 1433 ^{11.3}	RH 779 ^{11.3}	<u>11.3</u> ✓
3490		A8581	AY 1403	13.2		
3491	pF,vS	-----				
3492		MC 16765	AY 1403	13.2		
3493	cF,PS	MC 21348	AY 1008	13.2		
3494		I 24690, not seen				
X 3495	F,L	I 24690	AX 2166 ^{12.8}	AX 1590 ^{12.7}	AX 1676 ^{12.6}	<u>12.7</u> ✓ (MC 16617 5.2 3.6)
3498		stars, Rein.				
3501		A6655	AY 1403	13.2		
X 3504	B,ph	A6712	AY 1008 ^{11.8, 12.1 = 12.0}	AY 1351 ^{11.5}	AY 593 ^{11.3}	<u>11.5</u> ✓ 11.6
3506	pF,cS	A6791	AY 1403 ^{13.1}	AY 1433 ^{13.3}	RH 779 ^{13.2}	<u>13.2</u> ✓
3507	cF,ph	A6655	AY 1403	13.2		
3509	F,ph	A7678	AX 1590	13.2		
X 3510	pF,cL	A6712	AY 1008 ^{12.5, 12.9}	AY 593 ^{12.7}	AY 1351 ^{12.9}	<u>12.6</u> ✓ 12.7
3512	pF,PS	A6712	AY 1008	13.2	* wrongly identified on AY plates.	
3515		A66712	AY 1008	13.2		
X 3521	!!cB,vh	A7232	AX 2166 ^{10.3}	AX 1590 ^{10.4}	AX 1676 ^{10.2}	<u>10.3</u> ✓
3522		A7640	AY 1403	13.2		
* 3512		Remeasure	AY 1008 ^{12.7}	AY 593 ^{12.8}	AY 1351 ^{13.0}	<u>12.8</u> ✓

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10^h cont.

3524 pB,pS A6791 AY1043 ± 13.2
 3526 F_{ph} A7678 AY1043 ± 13.2
 3527 F_{cS} A6712 AY1008 ± 13.2

X 3162 pB,ph MC 15429 AY^{12.3}1008, AY^{12.3}593, AY^{11.9}1351
 ✓ ✓

12.2 ✓

11^h

3531 A7678 not seen
 3534 F_{pS} A6712 AY534 ± 13.2
 3535 cF_S
 3536 cF_{cS} A6712 AY534 ± 13.2
 3539 cF_{cS} A6712 AY534 ± 13.2
 3547 pF_{pS} A6791 AY^{12.8}1403, AY^{12.8}1433, RH^{13.1}779
 3550 pF_{cS} A6712 AY534 ± 13.2
 3551 A7640 not seen
 3552 cF_S
 3553 A6712 AY534 ± 13.2
 3554 cF_S

12.9 ✓

0° to +30°

11^h conk.

✓

3555		A7640 not seen.			
3558	pF, S	~~~~~			
3559	cF, pS	A6791 AY1043 E13.2			
3560		star, Rein.			
3561	pF, S	~~~~~			
3563	D, F, S and cF, S	~~~~~			
3567	cF, S	~~~~~			
3570		A6712 AY534 E13.2			
3574		A6712 AY534 E13.2			
3575		not found, Rein.			
3580	F, S	~~~~~			
3588		A7640 AY1403 E13.2			
3592	vF, ph	~~~~~			
X 3593	B, W	A6791 AY ^{12.6} 1403 AY ^{12.1} 1433 RH ^{12.6} 779		<u>12.4</u> ✓	
X 3596	pB, ph	A6791 AY ^{12.1} 1403 AY ^{12.2} 1433 RH ^{12.1} 779		<u>12.1</u> ✓	
3598	pB, cS	A6648 AY1403 E13.2			
3599	pB, cS	A6648 AY1403 E13.2			
3601	cF, cS	A7678 AX2155 E13.2			
3602	cF, vS	~~~~~			
3604		same as N3611, Rein.			
3605	pB, cS	A6648 AY ^{13.0} 1403 AY ^{13.2} 1433 RH ^{13.3} 779		<u>13.2</u> ✓	
X 3607	vB, ph	A6648 AY ^{11.4} 1403 AY ^{11.6} 1433 RH ^{11.6} 779		<u>11.5</u> ✓	
X 3608	B, pS	A6648 AY ^{12.3} 1403 AY ^{12.5} 1433 RH ^{12.8} 779		<u>12.5</u> ✓	
3609	pF, pS	A6712 AY543 E13.2			
X 3611	cB, pS	A7678 AX ^{12.3} 2155 AX ^{12.5} 1643 AX ^{12.5} 1666		<u>12.4</u> ✓	MC 19533 d7 09.
3612	cF, pS	A6712 AY543 E13.2			
3615	pB, cS	A7640 AY1403 E13.2			
3616		not found, Rein.			
3618	pF, cS	A7640 AY1403 E13.2			
X 3623	!!!vB	A6791 AY ^{10.2} 1403 AY ^{10.5} 1433 RH ^{10.8} 779		<u>10.5</u> ✓	

72

11^h cont.

	3624	eF, pS	_____		
X	3626	B, pS	A 6648 AY ^{11.8} ₁₄₀₃ AY ^{11.9} ₁₄₃₃ RH ^{12.0} ₇₇₉	<u>11.9</u> ✓	
X	3627	!!!vB, vL	A 6791 AY ^{9.7} ₁₄₀₃ AY ^{9.8} ₁₄₃₃ RH ^{10.3} ₇₇₉	<u>9.9</u> ✓	
X	3628	!!!pB, eL	A 6791 AY ^{11.2} ₁₄₀₃ AY ^{11.5} ₁₄₃₃ RH ^{11.3} ₇₇₉	<u>11.3</u> ✓	
X	3629	pF, pW	A 6712 AY ^{12.8} ₅₄₃ AY ^{13.0} ₁₃₃₆ AY ^{13.0} ₁₀₀₀	<u>12.9</u> ✓	
X	3630	cB, pS	A 7232 AX ^{12.7} ₂₁₅₅ AX ^{12.8} ₁₀₄₃ AX ^{12.7} ₁₆₆₆	<u>12.7</u> ✓	
	3632		same as N3626, Rein.	MC19533	C3 1.5
	3633		A 7232 AX 2155 ± 13.2		
	3639	pF, cS	A 6648 AY ₁₄₀₃ ± 13.2		
X	3640	B, pS	A 7232 AX ^{11.4} ₂₁₅₅ AX ^{11.8} ₁₆₄₃ AX ^{11.5} ₁₆₆₆	<u>11.6</u> ✓	
	3641	cF, vS	_____		
	3643	vF, S	_____		
	3644	vF, S	_____		
	3645		not found		
X	3646	pF, vL	A 7640 AY ^{11.7} ₁₄₀₃ AY ^{12.0} ₁₄₃₃ RH ^{11.8} ₇₇₉	<u>11.8</u> ✓	
	3647	see F, vS	_____		
	3649	pF, S	_____		
	3650		A 7640 AY ₁₄₀₃ ± 13.2		
	3651	pF, S	_____		
	3653	cF, vS	_____		
X	3655	pB, pS	A 6648 AY ^{12.5} ₁₄₀₃ AY ^{12.1} ₁₄₃₃ RH ^{12.2} ₇₇₉	<u>12.3</u> ✓	
	3659	pF, pS	A 6648 see Book 10 page 27.		
	3664	"	A 7232 see Book 10 page 27		
	3666	pB, vL	A 6791 see Book 10 page 27		
	3670	pF, pS	A 7640 see Book 10, page 37.		
	3678	pF, cS	A 6712 see Book 10, page 37.		
	3681	pB, pS	A 6648 see Book 10 page 27		
	3684	pB, pW	A 6648 see Book 10 page 27		
	3685		A 7232 see Book 10 page 27		
	✓	✓			

+60° to +90°

12.			
4120	pF-cF, pl	MC 25502 AY 959 E13.2	
4121	vF, S		
X 4125	pB, pl	MC 25501 AY 959 ^{11.5} , AY 491 ^{11.4} , AY 501 ^{11.0}	<u>11.3</u> ✓
4127	cf, pF, pS	MC 8382 AY 545 E13.2	
X 4128	pB, pB, pl	MC 25502 AY 491 ^{12.9} , AY 959 ^{13.0} , AY 501 ^{12.8}	<u>12.9</u> ✓
4133	pF, pS	MC 8382 AY 545 E13.2	
4159	vF, pS		
4195	cf, pF, pS, pl		
4199	vF, S		
4205	pB, pS	MC 17444 AY 501 E13.2	
4210	pF, pl	MC 25501 AY 959 E13.2	
4221	pB, pB, pS	MC 25501 AY 959 E13.2	
X 4236	!!! cf, cl	MC 25502 AY 491 ^{11.4} , AY 959 ^{11.3} , AY 501 ^{11.2}	<u>11.3</u> ✓
4238	pF, pS	MC 17444 AY 501 E13.2	
4250	pB, pl	MC 25502 AY 491 E13.2	
4256	pB, L	MC 25501 AY 959 ^{13.1} , AY 491 ^{13.0} , AY 501 ^{13.0}	$\frac{2.3 \times 0.6}{13.0}$ 5?
* 4291	pB, pB, S	MC 8382 AY 545 E13.2	* Identified wrongly as Ay plate
4319	pF, pS	MC 8382 not seen	
4331	cf, pl	MC 8382 AY 545 E13.2	
4345		MC 8382 AY 545 E13.2	
4363	cf, pF, pS	MC 8382 AY 545 E13.2	
X 4386	pB, pS	MC 8382, AY 545 ^{13.0} , AY 596 ^{12.7} , AY 507 ^{12.6}	<u>12.8</u> ✓
4391	pF, S		
4441	pB, S	MC 25501 AY 959 E13.2	
4481	pF, S		
* 4332	pB, pl	MC 25501 AY 959 E13.2	
* 4291		Remeasure AY 545 ^{12.8} , AY 596 ^{12.4} , AY 507 ^{12.4}	<u>12.5</u> ✓

82

12h (contd)

4510	pF.S				
4512	Not found - 7-4521? - Reinmuth				
4513	pF.S	MC 25501	AY 959	$\epsilon 13.2$	
4521	pB.pS	MC 17444	AY 501	$\epsilon 13.2$	
4545	Fgh	MC 17444	AY 501	$\epsilon 13.2$	
X \rightarrow 4589	pB.pS	MC 8382	AY ^{12.1} 545, AY ^{12.2} 596, AY ^{12.0} 507		$\overline{12.1} \checkmark$
X \rightarrow 4605	B.h	MC 17444	AY ^{11.0} 501, AY ^{11.2} 959, AY ^{11.0} 491		$\overline{11.1} \checkmark$
\rightarrow 4693	pFgh	MC 21366	AY 545	$\epsilon 13.2$	
4749	pFgh	MC 21366	AY 545	$\epsilon 13.2$	
X \rightarrow 4750	B.pS	MC 8382	AY ^{12.3} 545, AY ^{12.0} 596, AY ^{12.2} 507		$\overline{12.2} \checkmark$
\rightarrow 4954	eeF.uS				

13h

5007	uF.S				
5034	pF.S				
5144	cf.pS	MC 21366	AY 545	$\epsilon 13.2$	
5205		MC 15859	AY 598	$\epsilon 13.2$	
5216		MC 15859	AY 598	$\epsilon 13.2$	
5218		MC 15859	AY 598	$\epsilon 13.2$	
5262		MC 17155	AY 545	$\epsilon 13.2$	
5283	Fgh	MC 17154	AY 545	$\epsilon 13.2$	
5295		MC 17157	AY 545	$\epsilon 13.2$	
X 5308	pB.pS	MC 17156	AY ^{12.6} 598, AY ^{13.0} 1413, RH ^{12.8} 1108		$\overline{12.8} \checkmark$
5314		MC 17154	AY 545	$\epsilon 13.2$	
X 5322	B.pS	MC 17156	AY ^{11.7} 598, AY ^{11.6} 1413, RH ^{11.6} 1108		$\overline{11.6} \checkmark$
1. 4572	cf.pS				
2. 4648	pB.pS	MC 8382	AY 545	$\epsilon 13.2$	
3. 4857	cf.pS	MC 21366	AY 545	$\epsilon 13.2$	

+60° to +90°

13 ^h (cont'd)	✓			
5323		MC 17157	not seen	
5340		MC 17155	not seen.	
5342	PF, VS			
5344		MC 17155	not seen	
5370	F, S	MC 17156 AY 105	E 13.2	
5376	PF, S	MC 17156 AY ^{12.9} 598, AY ^{13.1} 1413, RH ^{13.0} 1108		<u>13.0</u> ✓
5379	F, S	MC 17156 AY 598	E 13.2	
5385		MC 17155 AY 545	E 13.2	
5389	PF, S	MC 17156 AY 598	E 13.2	
5402	PF, S	MC 17156 AY 598	E 13.2	
5412		MC 17155 AY 545	E 13.2	
5413		MC 21815 AY 598	E 13.2	
5415		MC 17154 AY 545	E 13.2	
X 5430	PF, S	MC 17156 AY ^{13.0} 598, AY ^{12.8} 1413, RH ^{12.7} 1108		<u>12.8</u> ✓
5452		MC 17157	not seen	
	✓			
14 ^h				
5502		MC 17156 AY 598	E 13.2	
5503		MC 17156 AY 598	E 13.2	
5540		MC 17156 AY 598	E 13.2	
5607	PF, S			
5620	PF, VS			
5640 - 9° 15'		MC 17157	not seen	
5667		MC 17156 AY 598	E 13.2	
5671		MC 17154 AY 545	E 13.2	
1. 5479		MC 21815 AY 598	E 13.2	
2. 5547		MC 17157	not seen	

84

14^h(contd)

5712

5807

5808

5819

5832

5836

F₈F₁₀F₈, F₁₀

✓

MC 17157 AY 545 E13.2

MC 19776 AY 598 E13.2

MC 17141 AY 545 E13.2

MC 17141 AY 545 E13.2

15^h

5894

5909

5912

5939

6011

X 6015

6019

6024

6048

F₈F₁₀F₈F₁₀F₈

✓

MC 17158 AY 598 E13.2

RH 228, RH 1055 not seen

MC 19806, not found

MC 18640 AY^{12.3} 598, AY^{11.8} 1413, RH^{12.2} 1108

MC 19806 AY 598 E13.2

MC 19806 AY 598 E13.2

12.1 ✓

16^h

6068

6071

6079

6091

6094

3 → 6111

X 1.5949

2.5989

3.6095

F₈F₁₀F₈F₁₀F₈, F₁₀

MC 19808 not seen

MC 14783 not seen

MC 18641 AY 598 E13.2

MC 18640 AY^{13.1} 598, AY^{12.4} 1413, RH^{13.1} 1109

MC 17158 AY 598 E13.2

MC 18641 AY 598 E13.2

12.9 ✓ S: 2.0 x 1.0

+60° to +90°

85

16 (contd.)		1.
1.7	6135	MC 18641 not found.
	6140	AY 598 not seen. No cover. Very large scale plate.
	6202	MC 18641 not found.
	6214	MC 297 AY 80 E13.2
X	6217	MC 19808, AY ^{12.7} 1363, RH ^{12.5} 2115, RH ^{12.7} 205 12.6 ✓
	6223	MC 18641 AY 80 E13.2
	6226	MC 18641 AY 80 E13.2
	6232	MC 385, MC 368 not seen
	6236	MC 385, MC 368 not seen
	6237	MC 385, MC 368 not seen
	6238	MC 18641 AY 80 E13.2
	6244	MC 18641 AY 80 E13.2
	6245	MC 385, MC 368 not seen.
	6247	MC 18641 AY 80 E13.2
	6248	MC 385, MC 368 not seen.
	6251	~~~~~
	6252	~~~~~
	6258	MC 323 not seen
	6260	MC 323 not seen
	6275	MC 323 not seen
	6288	MC 297 not seen
	6289	MC 297 not seen

✓

17 ^{1/2}	
6292	MC 421 not seen
1.6123	MC 18641 AY 598 E13.2

86

17^h(cont'd.)

✓

6295

MC 421 not seen

6297

MC 421 not found

6298

MC 421 AY₈₀ ≤ 13.2

6299

vF, vS

6303

MC 297 not seen

6306

MC 421 AY₈₀ ≤ 13.2

6307

F, S

MC 421 AY₈₀ ≤ 13.2

6310

F, L

MC 421 AY₈₀ ≤ 13.2

6317

MC 421 not found

6319

MC 421 not found

6324

MC 21473 not seen

6331

ef, S

X 6340

MC 368 AY₁₃₆₃^{12.8}, RH₂₁₁₅^{12.7}, RH₂₀₅^{12.8}12.8 ✓spheroidal
1.0 X 1.0

6359

vB, vS

6361

MC 421 AY₈₀ ≤ 13.2

6365

MC 421 not seen

6381

MC 421 not seen

6390

MC 421 not seen

6395

MC 368 AY₁₃₆₃ ≤ 13.2

6410

MC 421 AY₈₀ ≤ 13.2

6411

vF, vS

X 6412

vF, L

MC 21473 AY₁₃₁₆^{12.8}, RH₂₁₁₅^{12.6}, RH₂₀₅^{12.9}12.8 ✓

6414

MC 21473 not seen

6419

MC 422 not seen

6420

MC 422 not seen

+60° to +90°

17 (Knut)	✓	
6422		MC 422 not seen
6423		MC 422 not seen
6424		MC 422 not seen
6434	cf. 1980	MC 19782, AY 1363 L13.2
6435		MC 421 not found
6436		MC 421 not found,
6456		MC 422 not seen
6457		MC 422 AY 80 L13.2
6461		MC 21473 not seen
6462		MC 492 not found
6463		MC 422 not seen
6464		MC 492 not seen
6470		MC 422 not seen
6471		MC 422 not seen
6472		MC 422 not seen
6477		MC 422 not seen
6488		MC 492 not seen
6489		MC 492 not seen
6491		MC 492 not seen
6493		MC 492 not seen
X 6503	B, h	MC 19782 AY 1363 ^{11.5} RH 2115 ^{11.4} RH 205 ^{11.2}
6505		MC 422 not seen
6508		MC 19782 AY 1363 L13.2
6510		MC 492 not seen
6511		MC 492 not seen

11.4✓

88

17^h (cont'd)

2

6512

CF, US

6516

CF, US

6521

CF, CS

6534

MC 492 not seen

6536

MC 422 not seen

6538

MC 21473 not seen

6542

MC 492 AY₈₀ E13.2

6547

B, J, S Planetary Rainmuth
✓18^h

6552

MC 422 not seen

6592

MC 19799 AY₈₀ E13.2

6594

MC 19799 AY₈₀ E13.2

6597

MC 19799 AY₈₀ E13.2

6598

MC 19782 AY₈₀, E13.2

6601

MC 19799 AY₈₀ E13.2

6607

MC 19799 AY₈₀ E13.2

6608

MC 19799 not seen

6609

MC 19799 not seen

6617

MC 19799 not seen

6621

MC 19782 not seen

6622

MC 19782 not seen

6636

RH 2018 not seen

X 6643

B, J, L MC 21473, AY₁₃₆₃^{12.7} RH₂₁₁₅^{12.6}, RH₂₀₅^{12.7}

12.7 ✓

6648

RH 2018, not seen

18^h (cont'd)

2

+60° to +90°

6650	MC 21481 not seen
6651	MC 21481 RH 205 E13.2
6654	MC 21473 AY 1363 E13.2
6667	MC 21481 not seen
6668	MC 20011 not seen
6676	MC 20011 not seen
6677	MC 20011 not seen
6678	MC 21481 not seen
6679	MC 20011 not seen
6689	MC 21481 RH 205 E13.2
6690	MC 21481 RH 205 E13.2
6701	MC 12961 not seen
6714	MC 20011 not seen
6747	MC 21481, RH 205, not seen

✓

19^h

6762-3	MC 12961 not seen
6786	RH 205, not seen
6787	MC 18946 not seen
6789	MC 18946 not seen
6796	MC 18946 AY 80 E13.2
6817	MC 18946 not seen
6825	MC 18946 not seen
6869	MC 19862 AY 183 E13.2

✓

90

20^h

V

6911

MC 19862 not seen.

6939

Cluster - Rimmuth

6949

MC 17683 not seen

X 6951

MC 19862, AY^{12.3} 183, AX^{12.4} 107, AY^{12.6} 253 12.4✓

7023

F.eL

MC 20805, diffuse neby, around star.

21^h

7076

F.eS

7129

! L.pF

MC 17886 AY 183 L13.2

7133

MC 17886 AY 183 L13.2

7139

F.eL

7142

Cluster - Rimmuth

7160

loose Cluster - Rimmuth

✓

22^h

7354

F.eS

7419

Cluster - Rimmuth

23^h

7538

vF.vL

diffuse, Reim.

7654

Cluster - Rimmuth

7708

loose Cluster Rimmuth

7748

Star - Rimmuth

7762

Cluster - Rimmuth

7788

Cluster - Rimmuth

7790

Cluster - Rimmuth

7822

MC 22843 not seen

7635

F.vL

MC 17738 Diffuse neby, st. involved.

✓

+ 60° to +90°

<u>0^h</u>	✓	
40	!!	Annular nebula, Rein.
103		Cluster, Rein.
110		many st but no Cl, Rein.
133		Cluster, Rein.
136		Cluster, Rein.
146		Cluster, Rein.
188		Cluster, Rein.
189		Cluster, Rein.
225		Cluster, Rein.
358		4 Stars in Hogram, Rein.
366		Cluster, Rein.
381		Cluster, Rein.

<u>1^h</u>		
559		Cluster, Rein.
609		Cluster, Rein.
629		MC 14356 not seen
637		Cluster, Rein.
654		Cluster, Rein.
663		Cluster, Rein.
771		50 Cassiop., neb.? Rein.

<u>2^h</u>		
886		Cluster, Rein.
896	eeF, ph	<u> </u>
1027		Cluster, Rein.
1184		MC 16988 AX 384 E 13.2

92

3h

1343

1469

1485

1501

1502

pB, pS

MC 18193 AX384 C13.2

MC14445 AX384 C13.2

MC 18193 AX384 C13.2

Annular Ring

Cluster, Ring.

✓

4h

1530

1544

1560

1569

1573

MC 21837 AX384 C13.2

MC18255 AY1367 C13.2

I 8590 not seen

MC14444 AX^{12.6}₆₉, AX^{12.4}₄₄₂, AY^{12.3}₁₉₆₀

MC21837 AX384 C13.2

12.4 ✓

pB, cB, pL

5h

X 1961

cF, cL

I 28421 AX^{11.8}₆₉, AY^{11.4}₁₉₆₀, AY^{11.7}₁₄₀₁

X 2146

pF, L

MC14363 RH^{11.5}₇₈₆, RH^{11.7}₉₇₁, RH^{11.6}₆₃₅11.6 ✓

11.6 ✓

✓

6h

2253

2256

2258

X 2268

pF, pL

I 34293 AY^{12.0}₁₃₆₇, RH^{12.3}₂₇₀₄, RH^{12.4}₇₈₆12.2 ✓

2273

pB, S

MC18171 AX^{12.0}₆₉ C13.2

X 2276*

cF, pF, S

MC18255 AY^{12.5}₁₃₆₇, RH^{12.5}₃₁₇₉, AY^{12.3}₇₈₂12.4 ✓

X 2300*

pB, cS

MC18255 AY^{12.1}₁₃₆₇, RH^{12.4}₃₁₇₉, AY^{12.0}₇₈₂12.2 ✓

X 2314

MC14375 RH^{12.8}₇₈₆, RH^{13.0}₉₇₁, RH^{12.8}₆₃₅12.9 ✓

✓

* 2276

MC18255 s, b8, 2.5

* 2300

MC18255 d7 1.0

+ 60° to 90°

93

gh							
X 2336	pF, L	I 28427	RH ^{12.3} 786	RH ^{12.2} 971	RH ^{12.7} 635	<u>12.4</u> ✓	
X 2347		MC14374	AX ^{12.5} 69	AY ^{12.9} 1960	AY ^{12.8} 1401	<u>12.7</u> ✓	
2363		MC19255	RH ^{12.6} 786	AY ^{12.2} 1367			
X 2366		MC19255	RH ^{12.6} 786	RH ^{12.8} 2704	AY ^{12.4} 1367	<u>12.6</u> ✓	
X 2403	!! cB, L	MC14374	AX ^{10.3} 69	AY ^{10.0} 1960	AY ^{10.4} 1401	<u>10.2</u> ✓	
2404		MC14374	not seen				
2408		MC19256	cluster				
X 2441		MC19256	RH ^{12.8} 786	RH ^{12.8} 2704	AY ^{12.6} 1367	<u>12.7</u> ✓	S 1.6 X 1.6
X 2460		I 32944	AY ^{12.8} 579	AY ^{12.6} 1962	AY ^{12.8} 941	<u>12.7</u> ✓	
X 2523		MC14394	AY ^{12.8} 1341	AY ^{12.9} 1373	AY ^{12.5} 542	<u>12.7</u> ✓	

gh

✓

2544		MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
2550		MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
2551		MC14394	AY ^{13.0} 1341	AY ^{13.2} 1373	AY ^{13.1} 542	<u>13.1</u> ✓	
2591	cF, ph	MC18264	AY ^{13.2} 1341	AY ^{13.2} 1341			
2614	eeF, ph						
2629	pB, S	MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
2630		MC14394	not seen				
2631		MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
X 2633		MC14394	AY ^{12.9} 1341	AY ^{12.5} 1373	AY ^{12.5} 542	<u>12.6</u> ✓	
2634		MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
2636		MC14394	AY ^{13.2} 1341	AY ^{13.2} 1341			
2641	F, VS						
X 2646		MC14394	AY ^{13.0} 1341	AY ^{12.7} 1373	AY ^{12.7} 542	<u>12.8</u> ✓	
2650	cF, S	MC14394	not seen; AY1341 not seen.				
2653		MC18264	not seen				
X 2654		MC18174	AY ^{12.7} 579	AY ^{12.9} 1962	AY ^{13.1} 941	<u>12.9</u> ✓	S: 2.1 X .7
X 2655	vB, ph	MC18264	AY ^{11.7} 1341	AY ^{11.7} 1373	AY ^{11.3} 542	<u>11.6</u> ✓	
X 2715	pFL	MC18264	AY ^{12.2} 1341	AY ^{12.1} 1373	AY ^{11.9} 542	<u>12.1</u> ✓	

I 2440

MC 14394 AY 542 13.2

2726 pF, pS MC 18174 AY 579 13.2

2732 cB, S MC 18264 AY 1341 13.2 star attached * 1.6 X 0.3 S:

X 2742 pB, ch MC 18174 AY^{12.7} 579, AY^{12.3} 1962, AY^{12.6} 94112.5 ✓X 2748 pB, pL MC 18264 AY^{12.4} 1341, AY^{12.5} 1373, AY^{12.2} 54212.4 ✓

2760

MC 18264 not seen

✓

9h

X 2768 vB, L MC 18174 AY^{12.2} 579, AY^{11.9} 1962, AY^{12.0} 94112.0 ✓X 2787 B, pS MC 19497 AY^{12.3} 579, AY^{12.0} 1962, AY^{12.1} 134112.1 ✓

2805 cF, L MC 14451 AY 579 13.2

2810 pF, S

2814 pB, pS MC 14451 AY 579 13.2

2816 not found, Rem.

2820 pB, ch MC 14451 AY 579 13.2

X 2880 pB, pL MC 14451 AY^{12.8} 579, AY^{13.0} 1962, AY^{12.9} 94112.9 ✓

2892 MC 19497 AY 579 13.2

2908 cF, S

2909 vF, S

2938 F, vS

2957 F, S

2959 cF, pS MC 19497 AY 579 13.2

2961 MC 19497 not seen

2963 cF, S

X 2976 pB, L MC 19497 AY^{11.2} 579, AY^{11.3} 1962, AY^{11.1} 134111.2 ✓

2977 not found, Rem.

X 2985 vB, pL MC 21173 AY^{11.9} 1341, AY^{11.8} 1373, AY^{11.8} 54211.8 ✓

3027 F, L MC 21173 AY 1341 13.2

X 3031 cB, ch MC 19497 AY^{8.8} 579, AY^{9.0} 1962, AY^{9.0} 13418.9 ✓X 3034 vB, vL MC 19497 AY^{9.3} 579, AY^{9.5} 1962, AY^{9.3} 13419.4 ✓

3057 cF, pL I 33991 AY 1341 13.2

* 2732 Remeasure AY^{13.0} 1341, AY^{13.1} 1373, AY^{12.9} 54213.0 ✓

+60° to +90°

95

3061	vF _{ph}	_____	
3063	stars, no nebula, Rain.		
X 3065	pB, vS	MC 21173 AY ^{13.0} ₁₃₄₁ , AY ^{12.9} ₁₃₇₃ , AY ^{12.7} ₁₅₄₂	<u>12.9</u> ✓
3066	pF _{ps}	MC 21173 AY ₁₃₄₁ 13.2	
X 3077	B _{ch}	MC 19497 AY ^{11.6} ₅₇₉ , AY ^{11.4} ₁₉₆₀ , AY ^{11.3} ₁₃₄₁	<u>11.4</u> ✓
3097		MC 18266 AY ₅₇₉ 13.2	
3102	F, S	_____	

10 ^W	✓		
3144	F, cS	MC 19345 AY ₁₃₄₁ 13.2	
X 3147	B _{ph}	MC 19345 AY ^{12.0} ₁₃₄₁ , AY ^{11.8} ₁₃₇₃ , AY ^{11.9} ₁₅₄₂	<u>11.9</u> ✓
3155	cF _s	_____	
3168	F, vS	_____	
3172	vF, vS	_____	
3183	cF _{ph}	MC 19345 AY ₁₃₄₁ 13.2	
3197	vF, cS	_____	
3210	no nebula seen, Rain.		
3212	F, S	_____	
3215	vF _{ps}	_____	
3231		MC 19499 Cluster, Dreyer.	
3236	F, vS	_____	
3252	vF _{ph}	_____	
X 3259		MC 19499 AY ^{12.8} ₅₇₉ , AY ^{13.1} ₁₃₄₁ , AY ^{12.9} ₁₉₆₂	<u>5: 1.1 x 0.6</u> <u>12.9</u> ✓
3266		MC 19499 AY ₁₃₄₁ 13.2	
X 3329	pB, cS	MC 18267 AY ^{12.9} ₁₃₄₁ , AY ^{12.8} ₁₃₇₃ , AY ^{12.9} ₁₅₄₂	<u>12.9</u> ✓
3343	F, S	_____	
X 3348	pB, S	MC 19345 AY ^{12.2} ₁₃₄₁ , AY ^{12.1} ₁₃₇₃ , AY ^{12.0} ₁₅₄₂	<u>12.1</u> ✓
X 3359		MC 19499 AY ^{11.9} ₅₇₉ , AY ^{12.3} ₁₉₆₂ , AY ^{12.4} ₉₄₁	<u>12.2</u> ✓ 2.x2.
3364	F, pL	MC 19345 AY ₁₃₄₁ 13.2	

	✓			
		3392	MC19499 AY959 C13.2	
		3394	MC19499 AY959 C13.2	
X		3403	cF _{ph} MC19345, AY ^{12.8} 1341, AY ^{12.4} 1373, AY ^{13.1} 542	<u>12.9</u> ✓
		3407	F _S _____	
		3435	cF _{ph} MC14453 AY959 C13.2	
		3465	F _{cS} MC18267 AY1341 C13.2	
		3470	cF _S _____	
		3471	pF _{ph} MC14453 AY959 C13.1	
		3484	not found, Rain.	
		3500	same as N.C.C 3465	
X		3516	pB _S MC19345 AY ^{12.1} 1341, AY ^{12.2} 1373, AY ^{12.2} 542	<u>12.2</u> ✓
		3523	F _{ph} MC19784 not seen	
	✓			
11 ^h	✓			
		3538	vS _____	
		3543	F _{ph} MC14453 AY959 C13.2	
		3562	pF _{ph} MC19345 AY1341 C13.2	
		3589	F _{ph} MC14453 AY959 C13.2	
		3622	MC20674 AY959 C13.2	
		3654	MC14466 AY1341 C13.2	
		3668	pB _{ph} MC17388 AY959 C13.2	
		3671	vF _{ph} _____	
		3682	MC20674 AY959 C13.2	
		3725	cF _{ph} MC17388 AY959 C13.2	
X		3735	pF _L MC17176 AY ^{13.0} 1341, AY ^{12.5} 1373, AY ^{12.4} 542	<u>12.6</u> ✓
		3736	MC17176 not seen	
		3740	F _{cS} MC17388 AY959 C13.2	
		3747	ef _S _____	
		3752	pF _{ph} MC19784 not seen.	

+60° to +90°

3762	pB, pS	MC 17388	AY 959	C13.2	
3770	pF, S	MC 17388	AY 959	C13.2	
3796	pB, cS	MC 17388	AY 959	C13.2	
3809	pB, cS	MC 17388	AY 959	C13.2	
3835	pF, pS	MC 17388	AY 959	C13.2	
3879		MC 25502	AY 491	C13.2	
3890	F, S				
3894	pB, ph	MC 21365	AY 959	C13.2	
3895	pF, pS	MC 21365	AY 959	C13.2	
3901	F, ph	MC 19784	not seen		
3939		not found, Rein.			
X 3945	B, pS	MC 17388	AY 945 ^{12.0} , AY 491 ^{12.1} , AY 501 ^{12.2}		<u>12.1</u> ✓
3961		MC 25502	not seen		
3975	see F, cS				
3978	pF, cS	MC 17388	AY 959	C13.2	
4034	F, ph	MC 25502	not seen		
X 4036	B, ch	MC 17388	AY 959 ^{11.9} , AY 491 ^{11.8} , AY 501 ^{12.1}		<u>11.9</u> ✓
X 4041	B, ph	MC 17388	AY 959 ^{12.0} , AY 491 ^{12.0} , AY 501 ^{12.2}		<u>12.1</u> ✓
4081		MC 25501	AY 959	C13.2	
4108	cB, pS	MC 25501	AY 959	C13.2	
✓	✓				

Positions of New Nicholae.

MF 11285	(a) B.D. +0° 3002	^w 12:48:14.4	^m +0° 51.0	} 1855
(2)	(b) B.D. +0° 2993	12:44:27.5	+0 52.4	
	(c) B.D. +1° 2766	12:45:41.4	+1 14.2	

13.9

(a) to (b)	^{mm} 20.4	^s 226.9	11.35	$\bar{s} = 1 \text{ mm.}$
	0.7	1.4	2.0	11.2
(a) to (c)	13.7	^s 153.0	11.17	
	8.4	23.2	2.8	$1 = 1 \text{ mm.}$
(b) to (c)	6.7	^s 73.9	11.05	2.5
	7.7	21.8	2.8	

MF 11285	(a) B.D. +1° 2707	12 23 47.4	+1° 7.3	} 1855
(1)	(b) B.D. +1° 2711	12 24 55.2	+1° 13.6	
	(c) B.D. +0° 2951	12 25 22.0	+0° 53.8	

13.0

(a) to (b)	^{mm} 2.6	^s 26.8	10.3	$\bar{s} = 1 \text{ mm.}$
	6.7	19.8	2.95	10.8
(a) to (c)	8.6	94.6	11.0	
	4.5	13.5	3.0	$1 = 1 \text{ mm.}$
(b) to (c)	6.0	67.8	11.3	2.95
	2.2	6.3	2.90	

MF11285

(2)

	mm	s				
a to neb.	-2.3	25.8	12	47	48.6	+0 54.8
	1.5	3.8				
b to neb.	+17.9	200.0	12	47	47.5	+0 54.4
	0.8	2.0				
c to neb.	+11.2	123.5	12	47	44.4	+0 54.0
	6.9	17.2				(1855)
$ \begin{array}{r} 12^h 47^m 46.8^s \quad +0^{\circ} 54.4' \\ \underline{\quad 4 \quad 52 \quad} \\ 12^h 52^m 38.8^s \quad +0^{\circ} 23.4' \\ \underline{\quad \quad \quad} \\ 12 \quad 52.6 \quad +0 \quad 23 \quad (1950) \end{array} $						

MF11285

(1)

a to neb	1.9	20.5	12	25	1.5	+1 10.4
	5.6	16.6				
b to neb.	0.7	7.6	12	25	218	+1 10.4
	1.1	3.2				
c to neb.	6.7	72.3	12	24	59.7	+1 10.5
	1.1	3.2				(1855)
$ \begin{array}{r} 12^h 25^m 1.3^s \quad +1^{\circ} 10.4' \\ \underline{\quad 4 \quad 52. \quad} \\ 12 \quad 29 \quad 53.3 \quad +0 \quad 38.4 \\ \underline{\quad \quad \quad} \\ 12 \quad 21.9 \quad +0 \quad 38 \quad (1950) \end{array} $						

A 8110.

C.P.D. -44° 9800

20^h 15^m 36.6 -44° 22.7

New ①.

-44° 9797

20 14 45.6 -44° 26.3 (1875)

measured onA 4763.R.A. Dec.
2.8 .7

(9.3) 51.0 (3.4) 3.6

6.4 2.7

12.3

10.4 .7

20^h 15^m 21.2 -44 23.4

35.1 2.9

20^h 15 20.7 -44 23.420^h 15^m 21^s -44° 23.4 (1875)

- 1 2 - 2.9

20^h 14^m 19^s -44° 26.3 (1860)

20 14.3 -44 26

6.3 + 1620^h 20.6 -44° 10 (1950)

A 8183

B.D. -6° 204

0 58 24.9 -6 38.0

New ①

B.D. -7° 169

0 56 58.1 -7 14.9

(21.8) 1 26.8 3.96 (36.9) 36.9

1855

12.8

10.0 21.6

11.8 15.3

39.6

0 57 45.3 -6 59.6 (1855)

47.0

0 57 45.1 -6 59.6

0 57 45 -6 59.6 (1855)

15 + 1.6

0 58 00 -6 58.0 (1860)

0 58.0 -6 58.

4.6 + 29

1 2.6 -6 29 (1950)

A 2861	C.P.D.	-46° 10 20 6	21 ^h 15	56.2	-46° 30.0	
New ①		-46° 10 19 7	21	13	9.9	(1875)
12.9			2	46.3	29.3	
=	10.0	12.0				
	18.4	18.1				
	58.7	11.7	21	14	57.5	-46 18.3 1875
	108.0	17.6	21	14	57.9	-46 18.3
			21	14	58.4	-46 18.3 1875
				- 59	- 3.9	
			21	13	59	-46 22.2 (1860)
			21 ^h	14.0 ^m	-46 22	
				+ 6.0	+ 22	
			21	20.0	-46 00	(1950)

A 7341	B.D	-14° 41 5 3	15 ^h 6	18.6	-14° 53.1	1855
New ①		-15° 40 5 2	15 ^h 5	15.9	-15 5.0	
			15.1	62.7	12.2 11.9	
12.8	8.3	1.9				
=	6.8	10.3				
	34.5	1.9	15	5	44.1	-14 55.0 1855
	28.2	10.0	15	5	44.1	-14 55.0
			15	5	44	-14 55.0 (1855)
				17	- 1.2	
			15	5	41	-14 56.2 (1860)
			15	6.0	-14 56	
				5.0	- 22	
			15 ^h	11.0 ^m	- 15 18	(1950)

104

MC 12003

B.D. $-9^{\circ}3567$

12 43 7.0 -9 28.4

New ①

 $-9^{\circ}3562$

12 40 57.6 -9 4.4

1855.

31.9 2 9.4 24.0

Measured on

18.9 9.1

A 14649

13.0 14.8

12.5

76.8

12 41 50.2 -9 19.3

1855

"

52.8

12 41 50.4 -9 19.2

12 41 50.3 -9 19.2 (1855)

16.0

-1.6

12 42.1 ~~6~~ -9 ~~20.8~~ (1860)

4.7

-30

12 46.8 -9 51 (1950)

A 14349

C.P.D. $-68^{\circ}6028$

7 22 18.5 -68 38.6

New ①

 $-68^{\circ}6022$

7 19 44.2 -68 59.1

(15.7) 2 34.3 20.5 (19.3)

12.8

4.0 6.6

11.7 12.7

39.4 7.0

7 21 39.1 -68 45.6

1875

115.0 13.5

7 21 39.2 -68 45.6

1875

7 21 39.2 -68 45.6

-3

-2.9

7 21 36.2 -68 48.5 (1900)

-6.

-5.8

7 21 30 -68 54.3 (1950)

This is
N2397

	α			δ		COMP. STARS	
MF 11363	12	28	52	-39	12.7	C.D.M.	-39 7714
New ①	12	28	52	-39	12.7	C.D.M.	-38 7805
	12	28	52	-39	12.7		
Measurement	$\Delta\alpha = 142''$			$\Delta\delta = 26.4' (1875)$		12	29 0 -39 23.0
A	$= 28.0 \text{ mm}$			$= 27.0 \text{ mm}$		12	26 38 -38 56.6
	Prev. $+4^m$			-24.9			
12.9	Corr. 12 32 52			-3.9		15.2	(1950)
						37.6	
	12 31 48			-39		30.9	(1930)

	AX1043	AX1005	AX1666	AX1326	AX1961	AX1945	Remeasures.	(Nebulae from H.C. 294.)	107
4124	12.6	12.4	12.5				✓ $\overline{12.5}$ ✓	1 1 0	
4168				12.9	12.8	12.8	✓ $\overline{12.8}$ ✓	1 0 0	
4178	12.3	12.6	12.4				✓ $\overline{12.4}$ ✓	1 2 0	
4192				11.1	11.4	11.6	✓ $\overline{11.4}$ ✓	<u>3</u> 0 2	
4212				12.4	11.9	12.1	✓ $\overline{12.1}$ ✓	3 <u>2</u> 0	
4216				11.0	11.5	11.4	✓ $\overline{11.3}$ ✓	<u>3</u> 2 1	
4215	12.8	12.7	12.7				✓ $\overline{12.7}$ ✓		
4235	12.9	12.8	12.7				✓ $\overline{12.8}$ ✓		
4254				10.4	10.8	10.2	✓ $\overline{10.5}$ ✓		
4261	11.8	11.6	11.6				✓ $\overline{11.7}$ ✓		
4260	12.5	12.8	12.9				✓ $\overline{12.7}$ ✓		
4267				12.5	12.3	12.9	✓ $\overline{12.6}$ ✓		56.40 11.5
4270	12.6	13.0	12.8				✓ $\overline{12.8}$ ✓		
4273	12.2	12.2	12.2				✓ $\overline{12.2}$ ✓		

	AX1043	AX1005	AX1666	AY1326	AY945	
4281	12.2	12.3	12.1		✓	$\overline{12.2}$ ✓
4293				11.5 11.5 12.0	✓	$\overline{11.7}$ ✓
4294 (12.7)				13.0 12.8 13.1	✓	$\overline{13.0}$ ✓
4298				12.2 12.7 12.7	✓	$\overline{12.5}$ ✓
4303	10.3	10.4	10.4		✓	$\overline{10.4}$ ✓
x 4307	12.8	13.0	13.0		✓	$\overline{12.9}$ ✓
4321				10.7 10.7 10.9	✓	$\overline{10.8}$ ✓
4324	12.6	12.4	12.6		✓	$\overline{12.5}$ ✓
4339	12.7	12.6	12.6		✓	$\overline{12.6}$ ✓
4340				12.8 13.0 13.1	✓	$\overline{13.0}$ ✓
4342	12.7	12.8	13.1		✓	$\overline{12.9}$ ✓
4350	"			12.3 12.0 11.7	✓	$\overline{12.0}$ ✓
4365	10.9	11.0	11.2		✓	$\overline{11.0}$ ✓
4371				12.1 12.1 12.1	✓	$\overline{12.1}$ ✓
4374				10.9 10.8 11.0	✓	$\overline{10.9}$ ✓

AX1403

AX1005

AY1326

AY945

4377 12.8 12.9 12.9 ✓ $\overline{12.9}$ ✓4379 13.0 12.9 13.0 ✓ $\overline{13.0}$ ✓4378 12.7 12.7 12.8 ✓ $\overline{12.7}$ ✓4380 12.7 13.1 12.6 ✓ $\overline{12.8}$ ✓

*

4383 13.0 13.0 12.7 ✓ $\overline{12.9}$ ✓4388 12.1 12.1 12.3 ✓ $\overline{12.2}$ ✓4394 12.2 11.9 12.6 ✓ $\overline{12.2}$ ✓4406 11.1 10.8 10.8 ✓ $\overline{10.9}$ ✓4417 11.9 12.4 12.4 ✓ $\overline{12.2}$ ✓4419 11.9 12.1 12.7 ✓ $\overline{12.2}$ ✓4424 12.5 12.7 12.5 ✓ $\overline{12.6}$ ✓4429 11.6 11.7 11.7 ✓ $\overline{11.7}$ ✓4435 11.6 11.8 12.0 ✓ $\overline{11.8}$ ✓4438 11.7 11.8 12.1 ✓ $\overline{11.9}$ ✓4442 11.3 11.3 11.5 ✓ $\overline{11.4}$ ✓

*

4382 10.2 10.5 10.7 ✓ $\overline{10.5}$ ✓

110

4450

AX1043

AX1005

AY1326

11.5 11.6 11.2 ✓ $\overline{11.4}$ ✓

4459

11.9 11.7 12.2 ✓ $\overline{11.9}$ ✓

4461

12.7 12.0 12.5 ✓ $\overline{12.4}$ ✓

4469

12.6 12.3 12.6

✓ $\overline{12.5}$ ✓

4473

11.6 11.8 11.6 ✓ $\overline{11.7}$ ✓

4472

10.0 10.3 10.2

✓ $\overline{10.2}$ ✓

4474

13.1 12.8 12.9 ✓ $\overline{12.9}$ ✓

4477

11.8 11.9 11.7 ✓ $\overline{11.8}$ ✓

4478

12.8 12.7 12.1 ✓ $\overline{12.5}$ ✓

4486

10.4 10.8 10.9 ✓ $\overline{10.7}$ ✓

4501

10.8 10.9 11.0 ✓ $\overline{10.9}$ ✓

4503

12.8 12.9 12.8 ✓ $\overline{12.9}$ ✓

4526

10.7 10.7 10.9

✓ $\overline{10.8}$ ✓

4535

10.9 11.2 11.0

✓ $\overline{11.0}$ ✓

4540

12.9 13.1 12.8 ✓ $\overline{12.9}$ ✓

4548	AX1043	AX1005	AY1326	11.6	11.9	12.2	✓	$\overline{11.9}$	✓
4550				12.8	12.8	12.6	✓	$\overline{12.7}$	✓
4552				11.4	11.1	11.4	✓	$\overline{11.3}$	✓
4561									
4564				12.3	11.9	12.2	✓	$\overline{12.1}$	✓
4567				12.4	12.2	12.2	✓	$\overline{12.3}$	✓
4569				11.0	11.2	11.3	✓	$\overline{11.2}$	✓
4570	12.0	12.1	12.2				✓	$\overline{12.1}$	✓
4578				12.5	12.3	12.7	✓	$\overline{12.5}$	✓
4579				11.1	11.0	10.9	✓	$\overline{11.0}$	✓
4580	12.7	12.7	12.7				✓	$\overline{12.7}$	✓
4586	12.9	12.9	12.8				✓	$\overline{12.9}$	✓
4595				12.9	13.2	13.1	✓	$\overline{13.1}$	✓
4596				11.9	12.1	12.6	✓	$\overline{12.2}$	✓
4612	12.5	12.7	12.7				✓	$\overline{12.6}$	✓

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	AX1043	AX1005	AX1666				
4621				11.4	11.1	11.8	$\sqrt{11.4} \checkmark$
4623	13.1	13.2	13.2				$\sqrt{13.2} \checkmark$
4638				12.3	12.1	12.3	$\sqrt{12.2} \checkmark$
4647				12.2	11.8	12.0	$\sqrt{12.0} \checkmark$
4649				10.3	10.7	10.7	$\sqrt{10.6} \checkmark$
4651				11.7	11.9	11.7	$\sqrt{11.8} \checkmark$
4654				11.7	11.7	11.7	$\sqrt{11.7} \checkmark$
4660				12.5	12.3	12.0	$\sqrt{12.3} \checkmark$
4689				12.3	11.7	12.1	$\sqrt{12.0} \checkmark$
4694				12.6	12.5	12.7	$\sqrt{12.6} \checkmark$
4698				12.0	12.4	12.3	$\sqrt{12.2} \checkmark$
4710				11.9	12.0	12.1	$\sqrt{12.0} \checkmark$
4713	12.3	12.2	12.1				$\sqrt{12.2} \checkmark$
4824	12.9	12.8	13.0				$\sqrt{12.9} \checkmark$
4233	13.0	12.9	13.1				$\sqrt{13.0} \checkmark$

AX1043 AX1005 AX1666
4522 13.0 13.0 12.8

✓ $\overline{12.9}$ ✓

4299

13.0 13.2 13.1 ✓ $\overline{13.1}$ ✓

4302

13.3 13.0 13.4 ✓ $\overline{13.2}$ ✓

4425

13.2 13.0 13.2 ✓ $\overline{13.1}$ ✓

4452

13.0 13.3 13.3 ✓ $\overline{13.2}$ ✓

4571

12.9 12.7 12.9 ✓ $\overline{12.8}$ ✓

4639

12.3 12.5 12.1 ✓ $\overline{12.3}$ ✓

4189

12.8 13.1 13.2 ✓ $\overline{13.0}$ ✓

4568

12.3 11.9 12.3 ✓ $\overline{12.2}$ ✓

4754

12.0 12.0 11.9 ✓ $\overline{12.0}$ ✓

4762

11.9 11.6 11.8 ✓ $\overline{11.8}$ ✓

4866

12.2 12.0 12.0 ✓ $\overline{12.1}$ ✓

4808

12.2 12.6 12.5

✓ $\overline{12.4}$ ✓

4519

12.7 12.6 12.5

✓ $\overline{12.6}$ ✓

4532

11.9 12.0 12.2

✓ $\overline{12.0}$ ✓

114

AX1043

AX1005

4608

12.7 12.8 12.6 ✓ $\overline{12.7}$ ✓

4795

13.1 12.9 13.2 ✓ $\overline{13.1}$ ✓

4688

13.1 12.9 13.0

✓ $\overline{13.0}$ ✓

4476

13.2 13.0 13.3 ✓ $\overline{13.2}$ ✓

4483

13.2 13.3 13.4

✓ $\overline{13.3}$ ✓

4880

13.1 13.1 13.1 ✓ $\overline{13.1}$ ✓

