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Bk. 2

Plate No.	Page	Errors
4342	88	16 - off in dec.
		44 - " " R.A.
		61 - a little off in dec.
		63 - 20^{m} " " "

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Positions of nebulae - 1900 - S.F.M.

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		6765	146		

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				Position in 2000 α	Position in 2000 δ
↓ ✓ 339.6	3 10 20	−54	00.8		
see page 4	3 10 27	−54	00.8		
	3 10 26	−54	00.8		
	3 18 12	−53	38.8	3 21 58	−53 18.3
				3 20 19	−53 6.8 → 6.1
				3 18 00	−53 9.9
?				3 20 27	−53 22.6
				3 19 09	−53 26.0

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A. 3339 — All positions 1900 — 3

Neb.	α	δ	Comp. Stars	not nebulae
343	3 19 9	−53 39.9	−53 560	188
	3 19 10	−53 39.9	−53 552	135
	3 19 10	−53 39.9 ✓	3 20 7 −53 47.3	4
	Δα = 1.15″	Δδ = 22.5″	3 18 12 −53 24.8	359
	= 18.2mm	= 21.9mm		145
				228
322	3 17 26	−53 29.9	−53552	246
	3 17 28	−53 28.3	−54538	159
	3 17 27	−53 28.1 ✓	3 18 12 −53 24.8	372
	Δα = 1.14″	Δδ = 59.4	3 15 8 −54 24.2	143
	= 24.7mm	= 61 mm		241
				236
~~323~~	3 17 56	−53 30.6		
	3 17 56	−53 30.5		
defect: of A14269	~~3 17 56~~	~~−53 30.6~~ ✓		
~~324~~	3 17 12	−53 31.8		
	3 17 12	−53 31.8		
star: of A14269	~~3 17 12~~	~~−53 31.8~~ ✓		
342	3 15 8	−53 31.8		
	3 15 8	−53 32.0		
	3 15 8	−53 31.9 ✓		
341	3 17 39	−53 44.2		
	3 17 39	−53 44.2		
	3 19 39	−53 44.2 ✓		
340a	3 16 17	−53 48.1		
	3 16 17	−53 48.0		
	3 16 17	−53 48.0 ✓		

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A. 3339 (cont.)

Hab.	α	δ	Comps. Stars	Position in 2000 α	Position in 2000 δ
x ✓ 325	3 15 11	−53 48.8	−53 55.2		
	3 15 12	−53 49.0	−54 5.38		
	3h 15m 12s	−53° 48.9′	3 1A 12 −53 248	3 18 4	−53 26.9
	Δα = 1A4″	Δδ = 59.4	3 15 8 −54 24.2		
	= 24.7mm	= 61mm.			
x ✓ 339a	3 15 32	−53 54.3			
See page 2	3 15 30	−53 54.3			
	3 15 31	−53 54.3		3 18 23	−53 32.3
✓ 330	3 16 58	−54 0.4			
	3 16 57	−54 0.5			
	3 16 58	−53 54 0.4		3 19 44	−53 38.4
✓ x 331	3 17 13	−54 7.8			
	3 17 14	−54 7.9			
	3 17 14	−54 7.8		3 20 00	−53 45.8
✓ x 332	3 16 35	−54 7.4			
	3 16 35	−54 7.5			
	3 16 35	−54 7.4		3 19 21	−53 45.4
✓ x 333	3 16 25	−54 9.6			
	3 15 25	−54 9.5			
	3 16 25	−54 9.6		3 19 11	−53 47.6
✓ 334	3 16 47	−54 11.8			
	3 16 47	−54 11.9			
	3 16 47	−54 11.8		3 19 33	−53 49.8

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Nub.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
335	3 16 27	-54 18.9			
	3 16 27	-54 18.6			
6.9	3 16 27	-54 18.8		3 19 13	-53 56.8
336	3 15 23	-54 18.0			
	3 15 23	-54 18.0			
	3 15 23	-54 18.0		3 18 09	-53 56.0
2.3 ~~337~~	3 15 25	-54 23.7			
	3 15 25	-54 23.9			
	~~3 15 25~~	~~-54 23.7~~		~~3 18 11~~	~~-54 1.7~~
38.4 ~~338~~	3 15 47	-54 3.5			
	3 15 47	-54 3.5			
star : cf. A14269	~~3 15 47~~	~~-54 3.5~~			
15.8 318	3 18 36	-53 48.0	-53 55.2		
	3 18 36	-53 47.9	-54 05.49		
	3 18 36	-53 48.0	3 18 12 -53 24.8	3 21 24	-53 26.4
	Δα = 13.3"	Δδ = 5 5.6	3 20 25 -54 20.4		
15.4	= 21.9mm	= 55.0			
319	3 18 30	-53 50.2			
	3 18 30	-53 50.1			-53 28.6
17.6	3 18 30	-53 50.2		3 21 18	~~28.6~~
~~342~~	3 19 5	-53 56.0			
	3 19 5	-53 56.6			
19.8	~~3 19 5~~	~~-53 56.0~~		~~3 21 53~~	~~-53 34.4~~

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Neb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
~~261~~	3 19 14	-54 33.5	-54 5'49		
	3 19 15	-54 33.4	-55 506		
	~~3 19 14~~	~~-54 33.4~~	3 20 25 -54 20.4	3 21 58	-54 11.8
	Δα = 462	Δδ = 39.3	3 12 43 -54 59.7		
	= 65.1	= 42.7			
~~260~~	3 20 4	-54 33.9			
	3 20 5	-54 34.1			
two stars : cf A14269	~~3 20 4~~	~~-54 34.0~~			
262	3 19 19	-54 43.5			
	3 19 19	-54 43.5			
	3 19 19	-54 43.3		3 22 3	-54 21.9
~~263~~	3 19 0	-54 44.4			
	3 19 0	-54 44.4			
star : cf A14269	~~3 19 0~~	~~-54 44.4~~			
~~264~~	3 19 55	-54 50.0			
	3 19 55	-54 50.0			
star : cf A14269	~~3 19 55~~	~~-54 50.0~~			
266	3 17 54	-54 38.6			
	3 17 54	-54 38.7			
	3 17 54	-54 38.6		3 20 38	-54 17.0
269	3 17 34	-54 37.6			
	3 17 34	-54 37.7			
	3 17 34	-54 37.6		3 20 18	-54 16.0

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1930phae.proj:2927PM

Neb.	α	δ	Comp. Stars	Position in 2000	
269	3 17 23	-54 36.5			
	3 17 23	-54 36.5			
	3 17 23	-54 36.5		3 20 9	-54 14.5
~~268~~	3 17 21	-54 34.6			
	3 17 25	-54 34.7			
	~~3 17 26~~	~~-54 34.6~~		~~3 20 12~~	~~-54 12.6~~
270	3 16 18	-54 34.0			
	3 16 17	-54 34.1			
	3 16 18	-54 34.0		3 19 4	-54 12.0
271	3 15 20	-54 31.8			
	3 15 20	-54 31.9			
	3 15 20	-54 31.8		3 18 6	-54 9.8
~~272~~	3 16 51	-54 25.7			
	3 16 50	-54 25.8			
	~~3 16 50~~	~~-54 25.8~~		~~3 19 36~~	~~-54 3.8~~
~~3370~~	3 15 18	-54 25.1			
	3 15 18	-54 25.1			
	~~3 15 18~~	~~-54 25.1~~		3 18 4	-54 3.1
328	3 14 43	-54 43.5			
	3 14 42	-54 43.7			
	3 14 42	-54 43.6		3 17 28	-54 21.6 ~~25.6~~

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1930phae.proj.233PM

8 A 3339.

Neb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
301	3 29 22	-53 P.3	-53 5P3		
	3 29 21	-53 P.3	-54 549		
	3 29 22	-53 P.3	3 3 2 3 -52 56.9	3 32 6	-52 47.9
	Δα = 69P	Δδ = P3.5	3 20 25 -54 20.4		
	= 103.	= P5.2			
300	3 29 23	-53 16.6			
	3 29 25	-53 16.5			
	3 29 24	-53 16.6		3 32 8	-52 56.2
309	3 2P 15	-53 P.P			
	3 2P 13	-53 P.P			
	3 2P 14	-53 P.P		3 30 58	-52 48.4
303	3 27 53	-53 11.0			
	3 27 53	-53 10.9			
	3 27 53	-53 11.0		3 30 37	-52 50.6
302	3 27 19	-53 P.P			
	3 27 20	-53 P.P			
	3 27 20	-53 P.P		3 30 6	-52 48.0
304	3 26 45	-53 10.0			
	3 26 44	-53 10.0			
	3 26 44	-53 10.0		3 29 30	-52 49.2
~~309~~ rejected	3 2P 0	-53 12.6			
	3 2P 1	~~-53~~ 12.6			
	3 2P 0	-53 12.6		3 30 44	-52 ~~58.2~~ 58.0

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Neb.	α	δ	Comp. stars	Position in 2000 α	Position in 2000 δ
308	3 25 51	-53 22.5			
	3 25 52	-53 22.6			
	3 25 52	-53 22.6		3 28 38	-53 1.8
312	3 24 44	-53 16.5			
	3 24 45	-53 16.5			
	3 24 44	-53 16.5		3 27 30	-52 55.7
311	3 23 18	-53 10.3			
	3 23 19	-53 10.3			
	3 23 18	-53 10.3		3 26 4	-52 49.5
320	3 22 15	-53 13.3			
	3 22 16	-53 13.3			
	3 22 16	-53 13.3		3 25 4	-52 51.7
211	3 30 13	-53 23.2			
	3 30 14	-53 23.1			
	3 30 14	-53 23.2		3 32 58	-53 2.8
~~212~~	3 30 1	-53 45.1			
	3 30 1	-53 45.1			
	~~3 30 1~~	~~-53 45.1~~		~~3 32 45~~	~~-53 24.7~~
~~213~~	Neb.?				

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10 A. 3339

Nob.	α	δ	Comp. Stars	Position in 2000 α	δ
~~299~~ ?			-53 5P3		
			-54 5P9		
			3 32 3 -52 54.9		
	Δα = 69F"	Δδ = 83.5'	3 20 25 -54 20.4		
	= 103mm	= 83.2mm			
298	3 31 12	-53 52.7			
	3 31 12	-53 52.9			
	3 31 12	-53 52.7		3 33 56	-53 32.3
214	3 29 25	-53 56.8			
	3 29 26	-53 56.8			
	3 29 26	-53 56.8		3 32 10	-53 36.4
~~222~~	dfect				
215	3 28 11	-54 5.4			
	3 28 12	-54 5.3			
	3 28 12	-54 5.4		3 30 52	-53 44.7 ~~45.0~~
Principle 41' ~~221~~	3 27 28	-54 6.5			
	3 27 28	-54 6.5			
	3 27 28	-54 6.5		~~3 30 10~~	~~-53 45.5~~
Principle 41' ~~223~~	3 26 50	-54 5.5			
	3 26 50	-54 5.5			
	3 26 50	-54 5.5		~~3 29 32~~	~~-53 44.5~~
220	3 28 33	-54 7.5			
	3 28 33	-54 7.6			
	3 28 33	-54 7.6		3 31 13	-53 47.2

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Nab.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
~~218~~	3 27 41	-54 11.4			
~~rejected~~	3 27 41	-54 11.4			
~~retain~~	~~3 27 41~~	~~-54 11.4~~			50.7 ~~51.0~~
				3 30 21	-53
219	3 27 46	-54 13.5			
	3 27 47	-54 13.7			52.9
	3 27 46	-54 13.6		3 30 26	-53 ~~53.2~~
217	3 28 15	-54 12.5			
	3 28 15	-54 12.5			51.9
	3 28 15	-54 12.5		3 30 55	-53 ~~52.1~~
216	3 28 54	-54 11.0			
	3 28 55	-54 11.0			
	3 28 54	-54 11.0		3 31 34	-53 50.6
192	3 31 35	-54 12.4			
	3 31 36	-54 12.4			
	3 31 36	-54 12.4		3 34 16	-53 52.0
191	3 31 18	-54 16.4			
	3 31 17	-54 16.4			
	3 31 18	-54 16.4		3 33 58	-53 56.0
310	3 27 5	-53 29.1			
	3 27 6	-53 29.0			
	3 27 6	-53 29.0		3 29 52	-53 8.0

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Mcb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
~~305~~	3 26 40	-53 34.1	-53 53.3		
	3 26 41	-53 34.2	-54 54.9		
	~~3 26 40~~	~~-53 34.2~~	3 32 3 -52 56.9	3 29 26	-53 13.2
	Δα = 69.8"	Δδ = 13.5'	3 20 25 -54 20.4		
	= 10.4 mm	= 13.2 mm			
306	3 25 21	-53 34.1			
	3 25 21	-53 34.2			
	3 25 21	-53 34.2		3 28 7	-53 13.2
307	3 24 45	-53 31.6			
	3 24 45	-53 31.6			
	3 24 45	-53 31.6		3 27 31	-53 10.6
317	3 24 2P	-53 29.5			
	3 24 2P	-53 29.5			
	3 24 2P	-53 29.5		3 27 14	-53 8.5
316	3 23 4P	-53 27.5			
	3 23 47	-53 27.5			
	3 23 4P	-53 27.5		3 26 34	-53 6.5
2P5	3 23 20	-53 39.0			
	3 23 20	-53 38.9			
	3 23 20	-53 39.0		3 26 6	-53 18.0
2P4	3 23 43	-53 41.0			
	3 23 43	-53 41.0			
	3 23 43	-53 41.0		3 26 29	-53 20.0

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Neb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
2F6	3 24 16	-53 41.9			
	3 24 15	-53 41.9			
	3 24 16	-53 41.9		3 27 2	-53 20.9
2F9	3 25 4	-53 42.6			
	3 25 3	-53 42.6			
	3 25 4	-53 42.6	—	3 27 50	-53 21.6
2FA	3 25 2	-53 44.3			
566, 14269	3 25 2	-53 44.2			
	3 25 2	-53 44.2		3 27 48	-53 23.2
2F3	3 24 35	-53 45.A			
	3 24 35	-53 45.A			
	3 24 35	-53 45.A		3 27 21	-53 24.8
249	3 25 2	-53 46.3			
	3 25 2	-53 46.3			
	3 25 2	-53 46.3		3 27 48	-53 25.3
~~279~~	3 23 9	-53 46.9			
	3 23 9	-53 46.A			
	~~3 23 9~~	~~-53 46.A~~		~~3 25 55~~	~~-53 25.8~~
~~2F1~~	3 22 7	-53 46.0			
	3 22 8	-53 46.0			
	~~3 22 8~~	~~-53 46.0~~		~~3 24 56~~	~~-53 24.4~~ 24.7

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Neb	α	δ	Comp. stars	Positions 2000 α	Positions 2000 δ
280	3 21 53	-53 47.0	-53 5P3		
	3 21 52	-53 47.0	-54 549		
	3 21 52	-53 47.0	3 32 3 -52 56.9	3 24 40	-53 25.4
	Δα = 698"	Δδ = 8 8.5'	3 20 20 -54 20.4		
	= 103mm	= 85.2mm			
282	3 21 18	-52 42.0			
	3 21 18	-53 42.0			
	3 21 18	-53 42.0		3 24 6	-53 20.4
~~305~~ Neb.?					
314	3 20 41	-53 35.7			
	3 20 40	-53 35.6			
	3 20 40	-53 35.6		3 23 28	-53 14.0
346	3 22 27	-53 56.5			
	3 22 27	-53 56.6			
	3 22 27	-53 56.6		3 25 15	-53 35.0
277	3 23 29	-53 53.4			
	3 23 29	-53 53.4			
	3 23 29	-53 53.4		3 26 15	-53 32.4
278	3 24 1	-53 51.6			
	3 24 1	-53 51.6			
	3 24 1	-53 51.6		3 26 47	-53 30.6

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Mag.	α	δ	Comps. stars	Positions in 2000 α	Positions in 2000 δ
5.4	276a 3 23 49	-53 56.7			
	3 23 49	-53 56.7			
	3 23 49	-53 56.7		3 26 35	-53 35.7
	275 3 23 44	-53 59.7			
	3 23 43	-53 59.6			
	3 23 44	-53 59.6		3 26 30	-53 38.6
10.4	290 3 22 7	-53 59.8			
	3 22 7	-53 59.7			
	3 22 7	-53 59.8		3 24 55	-53 38.2
	347 3 24 23	-53 59.9			
	3 24 23	-53 59.9			
	3 24 23	-53 59.9		3 27 9	-53 38.9
14.0	274 3 25 37	-54 9.4			
	3 25 37	-54 9.5			
	3 25 37	-54 9.4		3 28 19	-53 48.4
35.0	273 3 24 16	-53 14 13.5			
	3 24 16	-53 14 13.4			
	3 24 16	-53 14 13.4		3 26 58	-53 52.4
32.4	177 3 32 48	-53 12.1	-53 58.3		
	3 32 49	-53 12.1	-53 60.5		
	3 32 48	-53 12.1	3 32 3 -52 52.9	3 35 30	-52 52.3
30.6	Δα = 60"	Δδ = 35.9'	3 42 3 -53 32.6		
	= 59.8m	= 38.2			

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16 A.3339

	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
Neb.					
176	3 32 22	-53 19.3	-53 5P3		
	3 32 22	-53 19.3	-53 605		
	3 32 22	-53 19.3	3 32 3 -52 56.9	3 35 6	-52 58.9
	Δα = 600″	Δδ = 35.7′	3 42.3 -53 32.6		
	= 89.8m	= 3P.2			
209a	3 32 43	-53 26.F			
	3 32 43	-53 26.F			
	3 32 43	-53 26.F		3 35 25	-53 7.0
178	3 34 30	-53 23.1			
	3 34 29	-53 23.2			
	3 34 30	-53 23.2		3 37 12	-53 3.4
~~126~~	Neb?				
~~128 Neb?~~					
125a	3 34 2F	-53 30.3			
	3 34 2F	-53 30.1			
	3 34 2F	-53 30.0		3 37 10	-53 10.2
125b	3 34 24	-53 30.5			
	3 34 24	-53 30.6			
	3 34 24	-53 30.6		3 37 06	-53 10.8

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Hab.	α	δ	Comp. Stars	Positions 12 2000 α	δ
170	3 36 3	-53 24.0			
	3 36 3	-53 24.1			
	3 36 3	-53 24.0		3 38 45	-53 4.2
169	3 36 47	-53 29.4			
	3 36 47	-53 29.5			
	3 36 47	-53 29.4		3 39 29	-53 8.6
118	3 36 50	-53 21.4			
	3 36 49	-53 21.5			
	3 36 50	-53 21.4		3 39 32	-53 1.6
119	3 37 38	-53 20.7			
	3 37 37	-53 20.8			
	3 37 38	-53 20.8		3 40 18	-53 9.6
179	3 38 26	-53 20.5			
	3 38 26	-53 20.6			
	3 38 26	-53 20.6		3 40 8	-53 8.8
110	3 38 57	-53 20.7			
	3 38 57	-53 20.8			
	3 38 57	-53 20.8		3 41 37	-53 9.6
109	3 39 29	-53 24.2			
	3 39 30	-53 24.3			
	3 39 30	-53 24.2		3 42 10	-53 5.0

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1930phae.proj.2322M

Neb	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
✓ 391	3 39 38	-53 22.0	-53 5F3		
	3 39 38	-53 22.1	-53 605		
	3 39 38	-53 22.0 ✓	3 32 3 -52 56.9	3 42 18	-53 2.8
			3 42 3 -53 32.6		
~~131~~	Neb?				
~~397~~	Neb?				
✓ 133 ✓	3 40 6	-53 7.4			
	3 40 5	-53 7.3			
	3 ~~34~~ 40 6	-53 7.4 ✓		3 42 46	-52 48.2
✓ 134 ✓	3 40 18	-53 4.5			
	3 40 18	-53 4.4			
	3 ~~35~~ 40 ~~45~~ 18	-53 4.4 ✓		3 42 58	-52 45.2
✓ 130 ✓	3 38 38	-53 6.5			
	3 38 36	-53 6.5			
	3 ~~36~~ 38 ~~34~~ 37	-53 6.5 ✓		3 41 17	-52 47.3
✓ 402 ✓	3 37 57	-53 7.1			
	3 37 56	-53 7.1			
	3 ~~37~~ 37 ~~38~~ 56	-53 7.1 ✓		3 40 36	-52 47.1
✓ 129 ✓	3 37 18	-52 57.8			
	3 37 17	-52 57.8			
	3 ~~37~~ 37 ~~38~~ 18	-52 57.8 ✓		3 40 3	-52 38.2

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1930phae.proj.232.EM

Nob.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
108	3 41 43	-53 20.4			
	3 41 43	-53 20.3			
	3 ~~41~~ 32 43 ~~24~~	-53 20.4		3 44 23	-53 1.2
106	3 41 31	-53 25.9			
	3 41 30	-53 25.9			
	3 ~~41~~ 32 ~~30~~ 40	-53 25.4		3 44 10	-53 6.7
~~114~~	3 41 32	-53 32.1			
	3 41 37	-53 32.0			
star: cf. A14269	~~3 41 38~~ ~~3 32 32~~	~~-53 32.0~~			
88	3 39 42	-53 36.4	-53 60.5		
	3 39 41	-53 36.4	-54 57.1		
	3 39 42	-53 31.4	3 42 3 -53 32.6	3 42 22	-53 17.2
	Δα = 523″ = 79.1 mm	Δδ = 46.6′ = 44.2 mm	3 33 20 -54 19.2		
87	3 39 19	-53 35.7			
	3 39 18	-53 35.7			
	3 39 18	-53 35.7		3 41 58	-53 16.5
86	3 39 32	-53 41.9			
	3 39 31	-53 41.8			
	3 39 32	-53 41.8		3 42 12	-53 22.7
85	3 38 35	-53 48.0			
	3 38 34	-53 48.0			
	3 38 34	-53 48.0		3 41 14	-53 28.8

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1930phae.proj.232SM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~90~~	3 38 29	-53 51.6	-53 605		
	3 38 28	-53 51.8	-54 571		
	~~3 38 28~~	~~-53 51.8~~	3 42 3 -53 32.6	3 41 8	-53 32.6
	Δα = 5.23"	Δδ = 46.6'	3 33 20 -54 19.2		
	= 79.1mm	= 44.8mm			
~~91~~	3 37 55	-53 49.4			
	3 37 54	-53 49.3			
	~~3 37 54~~	~~-53 49.4~~		3 40 34	-53 29.9 30.2
89	3 37 34	-53 50.7			
	3 37 34	-53 50.7			
	3 37 34	-53 50.7		3 40 14	-53 31.2 31.5
120a	3 37 16	-53 40.6			
	3 37 15	-53 40.6			
	3 37 16	-53 40.6		3 39 58	-53 20.8
119	3 35 45	-53 45.0			
	3 35 44	-53 45.0			
	3 35 44	-53 45.0		3 38 26	-53 25.2
~~star~~	3 35 42	-53 54.0			
reinstate N.K.	3 35 41	-53 04.0			
star of A14269	~~3 35 42~~	~~-53 54.0~~		3 38 24	-53 34.3
206	3 34 20	-53 47.1			
	3 34 19	-53 47.0			
	3 34 20	-53 47.0		3 37 2	-53 27.2

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1998ophac..proj..252S

Neb.	α	δ	Comp. Stars.	Positions in 2000 α	Positions in 2000 δ
~~207~~	3 33 25	-53 43.0			
	3 33 24	-53 43.0			
defect: cf A14269	~~3 33 24~~	~~-53 43.0~~			
174	3 33 27	-54 0.7			
	3 33 26	-54 0.7			
	3 33 26	-54 0.7		3 36 2	-53 40.9
172	3 34 28	-54 4.2			
	3 34 27	-54 4.2			
	3 34 28	-54 4.2		3 37 4	-53 44.4
209b	3 34 33	-54 10.9			
	3 34 32	-54 10.9			
	3 34 32	-54 10.9		3 37 8	-53 51.1
120b	3 35 56	-54 16.1			
	3 35 55	-54 16.0			
	3 35 56	-54 16.0		3 38 32	-53 56.2
252 ~~253~~	3 36 19	-54 4.6			
	3 36 18	-54 4.6			
neb?:	~~3 36 18~~	~~-54 4.6~~	—	3 38 53	-53 45.0
~~251~~	3 37 16	-54 7.0			
	3 37 15	-54 7.0			
	~~3 37 16~~	~~-54 7.0~~		~~3 39 54~~	~~-53 47.2~~

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1930phae.proj.232

22 A3339

Neb. no.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
191	3 36 32	-53 59.4	-53 60.5		
	3 36 31	-53 59.3	-54 57.1		
	3 36 32	-53 59.4	3 42 3 -53 32.6	3 39 14	-53 38.6
	Δα = 523"	Δδ = 446.6'	3 33 20 -54 19.2		
	= 79.1mm	= 44.8mm			
	30 →	2000			
~~48~~	3 38 10	-54 11.0	3 41 16 -54 0.8		
	3 38 9	-54 11.0			
	~~3 38 10~~	~~-54 11.0~~		3 40 42	-53 56.8
41	3 38 40	-54 15.2			
	3 38 39	-54 15.2			
	3 38 40	-54 15.2		3 41 12	-53 56.0
92	3 37 44	-54 2.0			
	3 37 43	-54 2.0			
	3 37 44	-54 2.0		3 40 16	-53 42.8
82	3 38 44	-54 3.3			
	3 38 43	-54 3.3			
	3 38 44	-54 3.3		3 41 16	-53 44.1
83	3 39 3	-54 0.3			
	3 39 2	-54 0.3			
	3 39 2	-54 0.3		3 41 34	-53 41.1
84	3 38 55	-53 52.6			
	3 38 54	-53 52.6			
	3 38 54	-53 52.6		3 41 34	-53 33.4

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1998phae.proj..23230

Comps: Stars

	α	δ	Positions in 2000 α	Positions in 2000 δ
85	3 40 23	-53 4P.0		
	3 40 22	-53 4P.0		
	3 40 22	-53 4P.0	3 43 2	-53 28.8
70	3 39 36	-53 47.2		
	3 39 35	-53 47.3		
	3 39 36	-53 47.2	3 42 16	-53 28.0
71	3 40 49	-53 4P.P		
	3 40 45	-53 4P.P		
	3 40 46	-53 4P.P	3 43 26	-53 29.6
67	3 41 15	-53 57.0		
	3 41 15	-53 57.0		
	3 41 15	-53 57.0	3 43 55	-53 37.8
~~68~~	3 40 50	-53 53.0		
	3 40 50	-53 53.0		
	~~3 40 50~~	~~-53 53.0~~	3 43 30	-53 33.8
~~69~~	3 40 35	-53 54.0		
	3 40 34	-53 53.9		
	~~3 40 34~~	~~-53 54.0~~	~~3~~ 43 14	-53 34.8
~~72~~	3 40 16	-53 54.P		
	3 40 1P	-53 54.P		
	~~3 40 17~~	~~-53 54.P~~	3 42 57	-53 35.6

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1930phae.proj.23239

Neb.	3 α	δ	Comp. Stars	Positions 2000 α	δ
✓ 73	3 40 11	-53 57.2	-53 605		
	3 40 10	-53 57.2	-54 571		
	3 40 10	-53 57.2 ✓	3 42 3 -53 32.6	3 42 50	-53 38.0
	Δα = 523"	Δδ = 46.6'	3 33 20 -54 19.2		
76	= 79.1 mm	= 44.8 mm			
J✓ 76	3 39 50	-54 0.0			
	3 39 50	-54 0.1			
	3 39 50	-54 0.0 ✓		3 42 22	-53 40.8
✓✓ 75	3 39 34	-54 5.8			
	3 39 34	-54 5.8			
	3 39 34	-54 5.8 ✓		3 42 06	-53 46.6
✓ 416	3 40 17	-53 57.7			
	3 40 16	-53 57.6			
	3 40 16	-53 57.6 ✓		3 42 56	-53 38.4
✓✓ 417	3 40 46	-54 1.3			
	3 40 45	-54 1.3			
	3 40 46	-54 1.3 ✓		3 43 18	-53 42.1
✓ 418	3 40 44	-53 57.0			
	3 40 44	-53 57.0			
2 stars: cf. A14269	~~3 40 44~~	~~-53 57.0~~ ✓			
✓ 35 c	3 41 39	-53 57.4			
	3 41 37	-53 57.4			
	3 41 38	-53 57.4 ✓		3 44 18	-53 38.2

two

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1939phae.proj.23220

	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~55~~	3 41 9	-54 5.6			
	3 41 8	-54 5.7			
	~~3 41 8~~	~~-54 5.6~~		3 43 40	-53 46.4
~~66~~	3 40 43	-54 5.2			
	3 40 42	-54 5.2			
two stars of A14269	~~3 40 42~~	~~-54 5.2~~			
54	3 40 47	-54 13.0			
	3 40 46	-54 13.0			53.8
	3 40 46	-54 13.0		3 43 18	-53 ~~54.2~~
55	3 41 13	-54 16.0			
	3 41 12	-54 16.0			
	3 41 12	-54 16.0		3 43 44	-53 56.8
205	3 32 13	-53 44.9	-53 52.3		
	3 32 12	-53 44.8	-54 5.1		.7
	3 32 12	-53 44.8	3 32 3 -52 56.9	3 34 56	-53 24.4
	Δα = 77″	Δδ = 12.3′	3 33 20 -54 19.2		
	= 10.6mm	= 12.9mm			
~~205~~	3 32 46	-53 45.7			
	3 32 46	-53 45.6			
	~~3 32 46~~	~~-53 45.6~~		3 35 28	-53 25.8
~~204~~	3 32 54	-53 53.5			
	3 32 54	-53 53.5			
	~~3 32 54~~	~~-53 53.5~~		3 35 36	-53 33.7

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1930phae.proj.232pm

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
419	3 32 18	-53 54.5	-53 583		
	3 32 18	-53 54.5	-54 591		
	3 32 18	-53 54.5	3 3 23 -52 56.9	3 35 2	-53 34.1
	Δα = 77″	Δδ = 82.3′	3 33 20 -54 19.2		
	= 10.6mm	= 82.9mm			
202	3 32 20	-53 55.6			
	3 32 20	-53 55.6			
	3 32 20	-53 55.6		3 35 9	-53 35.2
175	3 32 58	-53 59.7			
	3 32 58	-53 59.6			
	3 32 58	-53 59.6		3 35 40	-53 39.8
201	3 32 49	-54 3.6			
	3 32 50	-54 3.6			
	3 32 50	-54 3.6		3 35 26	-53 43.8
~~495~~	3 32 49	-54 11.5			
	3 32 50	-54 11.4			
star: of A 14272	~~3 32 50~~	~~-54 11.4~~			
344	3 12 56	-53 8.8	-53 540		
	3 12 56	-53 8.9	-54 549		
	3 12 56	-53 8.8	3 10 46 -53 2.5	3 15 48	-52 46.8
	Δα = 579″	Δδ = 77.9′	3 20 25 -54 20.4		
	= 90.3mm	= 74.2mm			

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1930phae.proj.2325m

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
326	3 13 49	-53 24.4			
	3 13 49	-53 24.5			
	3 13 49	-53 24.4		3 16 41	-53 2.4
342	3 15 2A	-53 29.9			
	3 15 2A	-53 29.9			
	3 15 2A	-53 29.9		3 18 20	-53 7.9
a (neb.)	3 12 57	-53 47.7			
	3 12 56	-53 47.A			
	3 12 56	-53 47.A		3 15 48	-53 25.8
b (neb)	3 11 39	-53 45.7			
	3 11 39	-53 45.A			
	3 11 39	-53 45.A		3 14 35	-53 23.4
265 a	3 17 2A	-55 5.4	-55 525		
	3 17 29	-55 5.3	-55 506		
	3 17 2A	-55 5.4	3 23 41 -55 14.4	3 20 10	-54 43.4
	Δα = 65A"	Δδ = 14.7'	3 12 43 -54 59.7		
	95.8 mm	= 9.9 mm			
~~294~~	3 16 27	-55 A.0			
	3 16 27	-55 A.0			
star: cf A14269	~~3 16 27~~	~~-55 A0~~			
~~295~~	3 17 14	-55 8.9			
	3 17 15	-55 8.9			
star: cf A14269	~~3 17 14~~	~~-55 8.9~~			

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1930phae.proj.232FM

Feb.

	α	δ	Comp. stars	Positions 1900 α	Positions 1900 δ
327	3 9 33	−53 26.5	−53 540		
	3 9 32	−53 26.5	−53 531		
	3 9 32	−53 26.5	3 10 41 −53 21.5	3 12 28	−53 4.1
	Δα = 210″ = 27.9 mm.	Δδ = 49.5′ = 50.2 mm.	3 7 16 −53 50.0		
C (nucl.)	3 9 40	−53 34.7			
	3 9 41	−53 34.7			
	3 9 40	−53 34.7		3 12 36	−53 12.3
293	3 22 26	−54 24.7	−54 549		
	3 22 26	−54 24.8	−55 525		5
	3 22 ~~27~~ 26	−54 24.8	3 20 29 −54 204	3 25 10	−54 3.2
	Δα = 196″ = 30.2 mm.	Δδ = 54.0′ = 53.9 mm.	3 23 41 −55 14.4		
295	3 21 20	−54 30.9			
	3 21 20	−54 30.9			
	3 ~~21~~ 1 ~~20~~ 20	−54 30.9		3 24 04	−54 9.3
297	3 21 29	−54 32.2			
	3 21 29	−54 32.2			
	3 ~~21~~ 1 ~~29~~ 29	−54 32.2		3 24 13	−54 10.6
299a	3 22 8	−54 39.6			
	3 22 7	−54 39.6			
	3 22 8	−54 39.6		3 24 52	−54 18.0
329	3 23 22	−54 49.4			
	3 23 22	−54 49.4			
	3 23 ~~28~~ 22	−54 49.4		3 26 04	−54 28.4

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1930phae.proj.23259

	α	δ	Comp. Nos	Positions in 2000 α	Positions in 2000 δ
252	3 22 12	-54 54.5			
	3 22 12	-54 54.5			
	3 22 12	-54 54.5		3 24 58	-54 33.2 ~~32.9~~
194	3 25 56	-55 12.4	-55 25		
	3 25 56	-55 12.5	-54 57		
	3 25 56	-55 12.4	3 23 41 -55 14.4		
	Δα = 5'79"	Δδ = 55.2'	3 33 20 -54 19.2		
	= 83.4 mm	= 56.1 mm			
224	3 27 14	-55 10.4			
	3 27 14	-55 10.4			
	3 27 14	-55 10.4			
296	3 23 49	-55 0.4			
	3 23 48	-55 0.5			
	3 23 49	-55 0.4			
195	3 26 9	-54 51.0			
	3 26 9	-54 51.0			
	3 26 9	-54 51.0			
196	3 26 30	-54 52.6			
	3 26 30	-54 52.7			
	3 26 30	-54 52.6			
189	3 24 50	-54 45.8			
	3 24 48	-54 45.9			
	3 24 49	-54 45.8			

wrong measurements made all through with this pair of comparators

See p. 198

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1930phae.proj.233PM

Feb.	α	δ	Comps. Stars
~~197~~ 197	3 25 35	-54 40.9	-55 525
	3 25 35	-54 41.0	-54 571
ref?	3 25 35	-54 41.0	
~~3 25 35 -54 41.0~~			3 23 41 -55 14.4
	Δα = 579″ = P3.4 mm	Δδ = 55.2′ 56.1 mm	3 33 29 -54 19.2
199	3 25 29	-54 39.2	
	3 25 29	-54 39.2	
	3 25 29	-54 39.2	
~~200~~	3 25 55	-54 33.9	
	3 25 55	-54 34.0	
	3 25 55	-54 34.0	
~~198~~	3 25 42	-54 30.0	
	3 25 43	-54 30.0	
	3 25 42	-54 30.0	
184	3 23 41	-54 32.5	
	3 23 41	-54 32.5	
	3 23 41	-54 32.5	
186	3 24 12	-54 28.8	
	3 24 13	-54 28.8	
	3 24 12	-54 28.8	
185	3 25 17	-54 22.9	
	3 25 17	-54 22.9	
	3 25 17	-54 22.9	

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1936phae.proj.232.GM

Neb.	α	δ	Comp. Stars
225	3 28 49	-55 14.5	
only one comp. star used in Decl. as other is too far away	3 28 50	-55 14.5	
	3 28 50		
~~226~~	3 28 57	-54 39.3	
	3 28 58	-54 39.4	
star : cf H14269	~~3 28 57~~	~~-54 39.4~~	
254	3 30 8	-54 54.3	
	3 30 9	-54 54.3	
	3 30 8	-54 54.3	
~~349a~~	3 31 25	-54 59.7	
	3 31 25	-54 59.8	
star	3 31 25	-54 59.8	
259f	3 31 22	-55 9.9	
	3 31 23	-55 9.9	
	3 31 22	-55 9.9	
292	3 33 1	-55 7.8	
	3 33 1	-55 7.8	
	3 33 1	-55 7.8	
260	3 33 1	-54 59.4	
	3 33 1	-54 59.4	
	3 33 1	-54 59.4	
255	3 33 13	-54 36.8	
	3 33 14	-54 36.8	
	3 33 14	-54 36.8	

See p. 198

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1930phae.proj.233PM

Neb.	α	δ	Comp. Stars		Positions in 2000 α	δ
✓ 1 PD	3 39 30	-54 21.4	-54 571			
	3 39 36	-54 21.5	-55 564			
	3 ~~39~~ 39 ~~36~~ 30	-54 21.4 ✓	3 33 20	-54 19.2	3 42 2	-54 2.2
	Δα = 499″	Δδ = 5′3.9	3 41 37	-55 12.9		
	= 71.1mm	= 5.3				
✓ ~~HH~~	3 37 27	-54 18.3				
1 Comp. Star used in Ded.	3 37 27					
other two far away	~~3 37 27 -54 18.3~~ ✓					
star: cf. A 14269						
✓ 1 79	3 38 25	-54 30.9				
	3 38 26	-54 30.9				
	3 38 26 ~~36 34~~	-54 30.9 ✓			3 40 58	-54 11.7
✓ 190 ✓	3 36 30	-54 27.9				
	3 36 31	-54 27.9				
	3 36 30 ~~34 24~~	-54 27.9 ✓			3 39 11	-54 8.1
✓ 349 ✓	3 34 16	-54 30.3				
	3 34 16	-54 30.3				
	3 34 16 ~~42 11~~	-54 30.3 ✓			3 36 52	-54 10.5
✓ 297	3 34 2	-54 31.4				
✓	3 34 52	-54 31.3				
	3 34 2 ~~42 55~~	-54 31.4 ✓			3 36 38	-54 11.6
✓ 115 ✓	3 35 53	-54 41.6				
	3 35 53	-54 41.5				
	3 35 53 ~~39 4~~	-54 41.6 ✓			3 38 29	-54 21.8

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1936phae.proj.2325M

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
121	3 36 25	-54 41.9			
	3 36 25	-54 41.9			
	3 ~~36~~ 36 ~~25~~ 25	-54 41.9		3 39 1	-54 22.1
96	3 36 58	-54 54.8			
	3 36 58	-54 54.8			
	3 ~~36~~ 36 ~~58~~ 58	-54 54.8		3 39 34	-54 35.0
95	3 37 7	-54 54.0			
	3 37 7	-54 54.0			
	3 37 ~~7~~ 7	-54 54.8		3 39 43	-54 38.2
123	3 37 24	-55 9.1			
	3 37 25	-55 9.1			
	3 37 ~~25~~ 24	-55 9.1		3 39 54	-54 49.3
122	3 37 54	-55 11.0			
	3 37 54	-55 11.0			
	3 37 ~~54~~ 54	-55 11.0		3 40 22	-54 51.8
98	3 39 16	-55 1.4			
	3 39 16	-55 1.3			
	3 ~~39~~ 39 ~~16~~ 16	-55 1.4		3 41 44	-54 42.2
114	3 39 23	-54 54.8			
	3 39 24	-54 54.8			
	3 ~~39~~ 39 ~~24~~ 24	-54 54.8		3 41 56	-54 35.6

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1930phae.proj.23?PM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
351	3 39 37	-54 52.6	3 33 20		
	3 39 37	-54 52.5	3 41 37		
	3 39 37	-54 52.6		3 42 9	-54 33.4
~~77~~	3 40 34	-54 53.2			
	3 40 33	-54 53.1			
	~~3 40 34~~	~~-54 53.2~~		3 42 6	-54 34.0
187	3 33 42	-55 3.3			
	3 33 42	-55 3.3			
	3 33 42	-55 3.3		3 36 12	-54 43.5
~~181~~	3 34 2	-55 10.3			
	3 34 2	-55 10.3			
	~~3 34 2~~	~~-55 10.3~~		3 36 32	-54 50.5
d	3 47 1	-54 28.1	-54 60.1		
	3 47 1	-54 28.1	-55 56.4		
	3 47 1	-54 28.1	3 47 34 -54 18.2	3 49 31	-54 9.5
	Δα = 35.7"	Δδ = 54.1'	3 41 37 -55 12.9		
	= 54.7 mm	= 51.8 mm			
10	3 45 58	-54 3A.4			
	3 45 58	-54 3A.4			
	3 45 58	-54 3A.4		3 48 28	-54 19.8
47	3 44 0	-54 28.1			
	3 44 0	-54 28.1			
	3 44 0	-54 28.1		3 46 30	-54 9.5

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1936phae.proj.2323.GM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~53~~	3 43 15	-54 36.5			
	3 43 14	-54 36.4			
~~star: cf H 14269~~	~~3 43 14~~	~~-54 36.4~~ ✓			
51 ✓	3 42 49	-54 36.6			
	3 42 49	-54 36.7			
	3 42 49	-54 36.6 ✓		3 45 19	-54 18.0
~~52~~	3 43 54	-54 44.7			
	3 43 54	-54 44.7			
~~star: cf A 14269~~	~~3 43 54~~	~~-54 44.7~~ ✓			
50 ✓	3 43 4	-54 49.8			
	3 43 4	-54 49.8			
	3 43 4	-54 49.8 ✓		3 45 34	-54 31.2
46 ✓	3 44 34	-54 54.1			
	3 44 34	-54 54.1			
	3 44 34	-54 54.1 ✓		3 47 4	-54 35.5
49 ✓	3 42 20	-55 6.3			
	3 42 20	-55 6.2			
	3 42 20	-55 6.2 ✓		3 44 48	-54 47.0
11 ✓	3 50 13	-54 28.1	-53 629		
	3 50 13	-54 28.1	-54 602		
	3 50 13	-54 28.1 ✓	3 52 28 -53 27.7	3 52 41	-54 10.1
	Δα = 150"	Δδ = 78.6'	3 49 58 -54 46.3		
	= 28.3 mm	= 77.2 mm			

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Neb.	α	δ	Comp. Stars	Positions 2000 α	Positions 2000 δ
3P3	3 50 22	-54 7.2	-53 629		
	3 50 22	-54 7.2	-54 602		
	3 50 22	-54 7.2	3 52 2P -53 27.7	3 52 50	-53 49.2
	Δα = 150"	Δδ = 76.6'	3 49 0P -54 46.3		
	= 2P.3mm	= 77.2mm			
45	3 50 24	-53 40.6	-53 629		
	3 50 24	-53 40.6	-54 601		
	3 50 24	-53 40.6	3 52 2P -53 27.7	3 53 00	-53 22.6
	Δα = 294"	Δδ = 51.1'	3 47 34 -54 1P.3		
	= 47.1mm	= 48.3mm			
7	3 49 21	-53 34.3			
	3 49 21	-53 34.2			
	3 49 21	-53 34.2		3 51 57	-53 16.2
3P4	3 47 53	-53 33.7			
	3 47 53	-53 33.7			
	3 47 53	-53 33.7		3 50 29	-53 15.7 4
36	3 47 35	-53 45.1			
	3 47 35	-53 45.0			
	3 47 35	-53 45.0		3 50 11	-53 26.7 27.0
~~3P~~	3 47 2P	-53 52.6			
only one comp. star used as other is too far away		-53 52.6			
	~~3 47 2P~~	~~-53~~	~~52.6~~		

star : cf. A.14269

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1960phae.proj.232.JM

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
✓ 407 ✓	3 46 11	-52 41.9	-53 605		
	3 46 10	-52 41.9	-52 454		
	3 46 10	-52 41.9	3 42 3 -53 32.6	3 48 52	-52 23.3
	Δα = 256"	Δδ = 57.6'	3 46 19 -52 35.0		
	= 41.4mm	= 57.1 mm			
✓ 356 ✓	3 45 15	-52 54.8			
	3 45 15	-52 54.8			
	3 45 15	-52 54.8	-52 54.8	3 47 57	-52 36.2
✓ 138 ✓	3 43 48	-52 43.2			
	3 43 48	-52 43.2			
	3 43 48	-52 43.2	-52 43.2	3 46 30	-52 24.6
✓ 198 ✓	3 43 17	-53 0.2			
	3 43 17	-53 0.2			
	3 43 17	-53 0.2	-53 0.2	3 45 55	-52 41.6
136 ✓	3 42 3	-53 4.8			
	3 42 3	-53 4.8			
	3 42 3	-53 4.8	-53 4.8	3 44 43	-52 45.6
✓ 107 ✓	3 42 17	-53 16.4			
	3 42 17	-53 16.3			
	3 42 18	-53 16.4	-53 16.4	3 44 58	-52 37.2
✓ ~~137~~	~~3 43 10~~	~~-53 21.3~~			
	3 43 10	-53 21.2			
star = cf. A 14269	~~3 43 10~~	~~-53 21.4~~	-53 21.2		

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Nebr	α	δ	Comp Stars	Position in 2000 α	Position in 2000 δ
304	3 44 13	-53 31.6	-53 600		
	3 44 13	-53 31.5	-52 454		
	3 44 ~~13~~ 12	-52 ~~31.6~~ 31.2	3 42 3 -53 32.6	3 46 51	-53 13.0
	Δα = 256"	Δδ = 59.6'	3 46 19 -52 35.0		
	= 41.4 mm	= 56.2 mm			
99	3 44 26	-53 28.5			
	3 44 27	-53 28.5			
	3 ~~44~~ ~~26~~ 44 26	-52 ~~28.5~~ 29.2		3 47 04	-53 9.9
~~33~~	3 46 34	-53 36.7	-53 614		
	3 46 34	-53 31.8	-53 607		
	~~3 46 34~~	~~-53 36.8~~	3 46 48 -53 32.7	3 49 12	-53 18.2
	Δα = 218"	Δδ = 20.9'	3 43 10 -53 53.6		
	= 33.1 mm.	= 19.6 mm.			
32	3 46 40	-53 43.3			
	3 46 40	-53 43.2			
	3 46 40	-53 43.2		3 49 18	-53 24.6
35 b	3 46 5	-53 46.4			
	3 46 5	-53 46.3			
	3 46 5	-53 46.4		3 48 43	-53 27.8
40	3 45 35	-53 47.6			
	3 45 35	-53 47.5			
	3 45 35	-53 47.6		3 48 13	-53 29.0

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Neb	α	δ	Comp. Star	Position in 2000 α	Position in 2000 δ
~~100~~	3 45 33				
	3 45 33				
star: cf. A14269	~~3 45 33~~				
✓ 397 ✓	3 43 39	-53 34.4			
~~neb? — a very~~	3 43 39	-53 34.4			
~~queer object: cf.~~	3 43 39	-53 34.4 ✓		3 46 17	-53 15.8
~~A14269. Dist 3 stars?~~ O.K. 8.P.M.					
~~104 a~~	3 43 34	-53 37.4			
	3 43 34	-53 37.4			
	~~3 43 34~~	~~-53 37.4~~ ✓		3 ~~46 12~~	~~-53 18.8~~
✓ ~~398~~	3 44 56	-53 47.7			
	3 44 56	-53 47.6			
	~~3 44 56~~	~~-53 47.6~~ ✓		3 ~~47 34~~	~~-53 29.0~~
✓ 113 ✓	3 43 24	-53 51.8			
	3 43 24	-53 51.8			
	3 43 24	-53 51.8 ✓		3 46 06	-53 33.2
✓ 103 ✓	3 43 10	-53 32.7	-53 36 14		
neb.?	3 43 10	-53 32.7	-53 60 5		
	3 43 10	-53 32.7 ✓	3 46 44 -53 32.7	3 45 48	-53 14.1
	Δα = 205"	Δδ = 1'	3 42 3 -53 32.6		
	= 42.3 mm	= 2.0 mm			
✓ 390 ✓	3 42 33	-53 32.7			
	3 42 33	-53 32.7			
	3 42 33	-53 32.7 ✓		3 45 11	-53 14.1

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1930phae.proj.23?PM

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No.	α	δ	Comp Stars	Positions in 2000 α	Positions in 2000 δ
~~102~~	3 45 31	-53 32.6	-53 614		
	3 45 31	-53 32.6	-53 605		
	~~3 45 31~~	~~-53 32.6~~	3 46 48 -53 32.7	3 48 9	-53 14.0
	Δα = 285"	Δδ = 1'	3 42 3 -53 32.6		
	= 42.3 mm.	= 2.0 mm.			
105	3 42 55	-53 37.5	-53 605		
	3 42 55	-53 37.5	-53 607		
	3 42 55	-53 37.5	3 42 3 -53 32.6	3 45 33	-53 18.9
	Δα = 67"	Δδ = 21.0	3 43 10 -53 53.6		
	= 8.7 mm.	= 21.5 mm.			
104 b	3 42 52	-53 42.7			
	3 42 52	-53 42.7			
	3 42 52	-53 42.7		3 45 30	-53 24.1
~~37~~	3 47 2	-53 54.2	-53 607		
	3 47 2	-53 54.2	-54 601		
star: cf. A.1426 9	~~3 47 2~~ 3 47 41	-53 54.2	3 43 10 -53 53.6		
	Δα = 264"	Δδ = 25.2'	3 47 34 -54 18.8		
	= 37.7 mm.	= 27.6 mm.			
39 b	3 46 19	-53 55.1			
	3 46 19	-53 55.1			
	3 ~~46~~ 46 ~~19~~ 19	-53 55.1		3 48 57	-53 36.5
41	3 45 58	-54 3.2			
	3 45 58	-54 3.2			
	3 ~~45~~ 45 ~~58~~ 58	-54 3.2		3 48 28	-53 44.6

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1936phace.proj.252SM

Nd.	α	δ	Comp. star	Positions in 2000 α	δ
42	3 45 29	-54 3.2			
	3 45 29	-54 3.2			
	3 ~~45~~ 45 ~~16~~ 29	-54 3.2		3 47 59	-53 44.6
63	3 ~~46~~ 46 ~~12~~	~~-54~~ 5.9			
	3 46 20	-54 5.9			
star	3 46 19	-54 5.9			
62	3 ~~43~~ 43 24	-53 56.3			
	3 43 24	-53 56.3			
star: cf A14269	3 ~~47~~ 43 ~~20~~ 24	-53 ~~56.3~~			
~~66~~	3 43 15	-54 1.4			
similate d. N.	3 43 15	-54 1.4			
	3 ~~47~~ 43 ~~30~~ 15	-54 1.4		3 45 45	-53 42.8
64	3 43 44	-54 16.5			
	3 43 44	-54 16.5			
	3 ~~49~~ 43 ~~0~~ 44	-54 16.5		3 46 14	-53 57.9
44	3 44 22	-54 18.9			
	3 44 22	-54 18.9			
	3 ~~46~~ 44 21 22	-54 18.8		3 46 52	-54 0.2
~~43~~	3 44 51	-54 18.0			
	3 44 52	-54 18.0			
2 stars: cf A14269	3 ~~45~~ 44 ~~44~~ 52	-54 18.0			

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A·3339

Neb	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~48~~	3 45 01	-54 16.9	-53 607		
	3 45 51	-54 16.9	-54 601		
star : of A.4269	~~3 45 51~~	~~-54 16.9~~ ✓	3 43 10 -53 58.6		
	Δα: 264″	Δδ: 25.2′	3 47 34 -54 1AP		
	= 37.7 mm.	= 27.6 mm.			
12a	3 47 AP	-54 1P.7			
	3 47 AP	-54 1P.7			
	3 47 AP	-54 1P.7 ✓		3 49 38	-54 0.1
61 ✓	3 42 54	-53 5P.5	-53 607		
	3 42 53	-53 5P.5	-54 5P4		
	3 42 54	-53 5P.5 ✓	3 43 10 -53 58.6	3 45 32	-53 39.9
	Δα: 14P″	Δδ: 46.1′	3 40 42 -54 39.7		
	= 22.5 mm.	= 42.2 mm.			
~~60~~	3 42 29	-54 1.2			
	3 42 2P	-54 1.3			
	~~3 42 2P~~	~~-54 1.2~~ ✓		~~3 45 00~~	~~-53 42.0~~
~~35 E~~	3 42 42	-54 9.4			
	3 42 42	-54 9.5			
	3 42 42	-54 9.4 ✓		~~3 45 12~~	~~-53 50.8~~
56 ✓	3 41 37	-54 19.2			
	3 41 37	-54 19.2			
	3 41 37	-54 19.2 ✓		3 44 9	-54 0.0

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1936phae.proj.23253

Mcb.	α	δ	Comparison	Positions in 2000 α	δ
59	3 42 1	-54 18.9			-54 0.0
	3 42 1	-54 18.9		3 44 33	-53 59.7
	3 42 1	-54 18.9			
409	3 41 37	-54 25.6			
	3 41 37	-54 25.6		3 44 4	-54 6.4
	3 41 37	-54 25.6			
30	3 48 47	-53 10.9	-53 61.4		
	3 48 47	-53 11.0	-52 45.9		
	3 47 47	-53 11.0	3 46 47 -53 32.7	3 51 24	-52 53.0
	Δα = 140"	Δδ = 38.4'	3 49 8 -52 54.3		
	= 23.4 mm	= 39.1			
~~355~~	3 47 59	-53 25.9			
	3 47 59	-53 26.0			
star: of A14269	~~3 47 59 -53 26.0~~				
29	3 46 59	-52 42.4	-52 45.4		
	3 47 0	-52 42.4	-52 45.9		
	3 47 0	-52 42.4	3 46 19 -52 35.0	3 49 42	-52 23.8
	Δα = 169"	Δδ = 19.3'	3 49 8 -52 54.3		
	= 24.6 mm	= 21.0 mm			
~~413~~	3 43 12	-52 9.2	-52 45.0		
	3 43 13	-52 9.0	-52 45.4		
star: of A14269	~~3 43 13 -52 9.1~~		3 43 51 -52 4.8		
	Δα = 194"	Δδ = 30.7'	3 46 19 -52 35.0		
	= 28.2 mm	= 32.4			

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A 3339

Neb.	α	δ	Comp. star	Position in 2000 α	Position in 2000 δ
143	3 44 21	-52 8.6	-52 45.0		
	3 44 21	-52 8.6	-52 45.4		
	3 44 21	-52 7.6	3 43 0 -52 4.3	3 47 03	-51 50.0
	Δα = 194″ = 28.2mm	Δδ = 30.7′ = 32.4mm	3 46 19 -52 35.0		
149	3 43 47	-52 17.4			
	3 43 47	-52 17.4			
	3 43 47	-52 17.4		3 46 29	-51 58.8
~~403~~	3 44 30	-52 24.5			
	3 44 30	-52 24.5			
star : of A 14269	~~3 44 30~~	~~-52 24.5~~			
25	3 45 25	-52 15.0			
	3 45 25	-52 15.0			
	3 45 25	-52 15.0		3 48 07	-51 56.4
~~229~~	3 45 27	-52 19.8			
	3 45 27	-52 19.8			
	3 ~~45 27~~	~~-52 19.8~~		3 ~~48 09~~	-52 12
24	3 44 56	-52 13.9			
	3 44 56	-52 14.0			
	3 44 56	-52 14.0		3 47 38	-51 55.4
~~230~~	3 45 2	-52 10.4			
nimetatis : O.K.	3 45 2	-52 10.4			
	3 ~~45 2~~	~~-52 10.4~~		3 47 44	-51 51.8

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1936phae.proj.2325M

No.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
✓ 231 ✓	3 46 24	-51 32.8	-51 455		
	3 46 24	-51 32.7	-52 450		
	3 46 24	-51 32.8 ✓	3 47 2 -51 31.6	3 49 12	-51 14.2
	Δα = 2.37"	Δδ = 32.7'	3 43 5 -52 4.3		
	= 38.4 mm	= 31.1 mm			
~~✓ 238~~	3 45 3	-51 33.2			
reinstate U.K.	3 45 3	-51 33.1			
~~star: cf A14269~~	~~3 45 3~~	~~-51 33.2~~ ✓		3 47 0.1	-51 14.7
✓ ~~237~~	3 44 14	-51 37.0			
	3 44 13	-51 36.9			
star: cf A14269	~~3 44 14~~	~~-51 37.0~~ ✓			
✓ ~~244~~	3 44 38	-51 43.2			
	3 44 39	-51 43.1			
star: cf A14269	~~3 44 38~~	~~-51 43.2~~ ✓			
✓ 363 ✓	3 43 30	-51 49.0			
	3 43 30	-51 48.9			
	3 43 30	-51 49.0 ✓		3 46 19	-51 30.4
✓ 414 ✓	3 44 38	-51 53.0			
	3 44 38	-51 53.0			
	3 44 38	-51 53.0 ✓		3 47 27	-51 34.4
✓ 367 ✓	3 45 15	-52 2.6			
	3 45 15	-52 2.6			
	3 45 15	-52 2.6 ✓		3 47 57	-51 44.0

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1930phae.proj.2327M

A.3339

Neb.	α	δ	Comp. star	Position in 2000 α	Position in 2000 δ
~~23~~	3 45 13	-51 58.2	-51 455		
	3 45 13	-51 58.2	-52 450		
	~~3 45 13~~	~~-51 58.2~~	3 47 2 -51 31.6	3 ~~48~~ 01	-51 39.6
	Δα : 239"	Δδ : 32.7'	3 43 5 -52 4.3		
	: 38.4mm	: 31.1mm.			
22	3 45 6	-51 53.2			
	3 45 6	-51 33.1			
	3 45 6	-51 53.2		3 47 54	-51 34.6
~~21~~	3 45 57	-51 40.6			
	3 45 57	-51 40.5			
2 stars: cf. #14269	~~3 45 57~~	~~-51 40.6~~			
2	3 4P 11	-51 36.0	-51 455		
	3 4P 11	-51 31.1	-52 463		
	3 4P 11	-51 36.0	3 47 2 -51 31.6	3 50 58	-51 17.8
	Δα : 305"	Δδ : 27.9	3 52 7 -51 59.5		
	: 46.0mm	: 31.3mm			
~~224~~	3 47 44	-51 38.4			
	3 47 43	-51 38.4			
star	3 47 44	-51 38.4			
225	3 4P 2P	-51 44.5			
	3 4P 27	-51 44.5			
	3 4P 27	-51 44.5		3 51 14	-51 26.3
~~226~~	3 47 44	-51 49.8			
	3 47 44	-51 49.0			
	~~3 47 44~~	~~-51 49.0~~		3 ~~50 31~~	~~-51 30.8~~

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Neb.	α	δ	Comp. Star	Position in 2000 α	Position in 2000 δ
✓ ~~4~~	3 49 35	-5 2 6.3	-5 2 46.3		
	3 49 35	-52 6.4	-5 2 45.4		
star: cf. A 14269	~~3 49 35~~	~~-5 2 6.4~~ ✓	3 52 7	-5 1 59.5	
	Δα = 3 48"	Δδ = 36.5'	3 46 19	-5 2 35.0	
	= 56.2 mm.	= 32.1 mm.			
✓ ~~27~~	3 48 59	-5 2 4.1			
	3 48 59	-52 4.2			
star: cf. A 14269	~~3 48 59~~	~~-52 4.2~~ ✓			
✓ ~~26~~	3 48 8	-5 2 5.7			
	3 48 8	-52 5.7			
star: cf. A 14269	~~3 48 8~~	~~-52 5.7~~ ✓			
✓ 245 ✓	3 46 33	-52 9.7			
	3 46 33	-52 9.7			
	3 46 33	-52 9.7 ✓		3 49 ~~25~~ 15	-51 51.1
✓ ~~25~~	3 46 23	-5 2 14.0			
	3 46 23	-52 14.0			
depot: cf. A 14269	~~3 46 23~~	~~-52 14.0~~ ✓			
✓ 6 ✓	3 48 3	-52 29.3			
	3 48 2	-52 29.4			
	3 48 2	-52 29.4 ✓		3 50 42	-52 11.4 ~~2~~
✓ 5 ✓	3 48 19	-5 2 16.5			
	3 48 19	-52 16.6			
	3 48 19	-52 16.6 ✓		3 50 59	-51 58.6 ~~4~~

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A·3339

	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
Neb. 249	3 41 55	-52 17.4	-52 45.0		
	3 41 55	-52 17.4	-52 44.1		
	3 41 55	-52 17.4	3 43 5 -52 4.3	3 44 39	-51 58.2
	Δα = 15.9″	Δδ = 29.5′	3 40 28 -52 33.8		
	= 252 mm	= 28.6 mm			
140	3 41 11	-52 17.5			
	3 41 11	-52 17.6			
	3 41 11	-52 17.6		3 43 55	-51 58.4
139	3 42 57	-52 33.1	-52 45.2		
	3 42 56	-52 33.1	-53 6.2		
	3 42 56	-52 33.1	3 43 55 -52 32.3	3 45 38	-52 14.5
	Δα = 285″	Δδ = 25.0′	3 39 10 -52 57.3		
	= 429 mm.	= 23.7 mm			
~~377~~ 371	3 41 10	-52 46.5			
	3 41 10	-52 46.4			
neb?	3 41 10	-52 46.4		3 43 54	-52 14.5
	~~3 41 10~~	~~-52 46.4~~			
373	3 41 16	-52 54.5			
	3 41 16	-52 54.5		3 44 00	
neb.?	3 41 16	-52 54.5		~~3 43 54~~	-52 35.3
144	3 42 22	-51 54.2	-51 44.2		
	3 42 22	-51 54.2	-52 45.0		
	3 42 22	-51 54.2	3 39 54 -51 36.3	3 45 12	-51 35.2
	Δα = 191″	Δδ = 28.0′	3 43 5 -52 4.3		
	= 28.5 mm.	= 29.1 mm.			

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Mag.	α	δ	Comp. stars	Pos. Trans. in 2000 α	δ
~~372~~	3 43 4	-51 59.9			
	3 43 4	-51 59.9			
star: of A14269	~~3 43 4~~	~~-51 59.9~~			
~~248~~	3 41 35	-52 0.0			
	3 41 35	-52 0.0			
star: of A14269	~~3 41 35~~	~~-52 0.2~~			
412	3 41 34	-52 2.9			
	3 41 34	-52 2.9			
	3 41 34	-52 2.9		3 44 18	-51 43.7
~~250~~	3 39 31	-52 22.2	-52 42.4		
	3 39 36	-52 22.2	-52 44.1		
2 stars: of A14269	~~3 39 36~~	~~-52 22.2~~	3 34 46 -52 4.1		
	Δα = 342"	Δδ = 29.7'	3 40 28 -52 33.8		
	= 51.6mm.	= 31.2			
148	3 35 42	-52 14.3			
	3 35 42	-52 14.3			
	3 35 42	-52 14.3		3 38 28	-51 54.5
358	3 36 27	-52 11.7			
	3 36 26	-52 11.7			
	3 36 26	-52 11.7		3 39 12	-51 51.9
161	3 36 30	-52 10.0			
	3 36 28	-52 10.0			
	3 36 29	-52 10.0		3 39 15	-51 50.2

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1930phae.proj.232PM

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Nsb.	α	δ	Comp. Stars	Positions in 2000 α	δ
162	3 36 35	-52 12.6	-52 424		
	3 36 35	-52 12.6	-52 441		
	3 36 35	-52 12.6	3 34 46 -52 41	3 39 21	-51 52.8
	Δα = 342"	Δδ = 29.9'	3 40 28 -52 33.8		
	= 51.6mm	= 31.2mm			
359	3 36 10	-52 13.3			
	3 36 10	-52 13.3			
	3 36 10	-52 13.3		3 39 56	-51 53.5
375	3 36 28	-52 23.6			
	3 36 28	-52 23.6			
	3 36 28	-52 23.6		3 39 14	-52 3.8
163	3 37 48	-52 9.4			
	3 37 47	-52 9.4			
	3 37 48	-52 9.4		3 40 32	-51 50.2
~~166~~	3 39 12	-52 16.8			
	3 39 12	-52 16.8			
2 stars: cf. A14269	~~3 39 12~~	~~-52 16.8~~			
~~167~~	3 33 37	-52 47.2	-52 420		
	3 33 37	-52 47.2	-53 591		
	~~3 33 37~~	~~-52 47.2~~	3 31 44 -52 42.4	3 36 23	-52 27.4
	Δα = 246"	Δδ = 15.3'	3 35 50 -52 57.9		
	= 37.3mm	= 16.2			

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Med.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~166~~	3 33 45	-52 49.1			
	3 33 45	-52 49.1			
	~~3 33 45~~	~~-52 49.1~~		3 36 31	-52 29.3
165	3 34 55	-52 44.1			
	3 34 55	-52 44.1			
	3 34 55	-52 44.1		3 37 41	-52 24.3
~~169~~	3 35 1	-52 50.0			
	3 35 1	-52 50.1			
defect: cf A14272	~~3 35 1~~	~~-52 50.0~~			
128	3 40 1	-52 50.6	-52 44.1		
	3 40 1	-52 50.6	-53 59.1		
	3 40 1	-52 50.6	3 40 28 -52 33.8	3 42 45	-52 31.4
	Δα : 27.8″	Δδ : 23.9′	3 35 50 -52 57.7		
	: 42.7 mm.	: 22.9 mm.			
	~~409~~				
	3 37 52	-52 39.8			
	3 37 52	-52 39.8			
2 stars: cf A14272	~~3 37 52~~	~~-52 39.8~~			
142	3 39 19	-52 36.3			
	3 39 19	-52 36.3			
	3 39 19	-52 36.3		3 40 05	-52 11.5
141	3 36 54	-52 54.4			
	3 36 54	-52 54.4			
	3 36 54	-52 54.4		3 39 40	-52 34.6

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52 A·3339

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
158	3 36 20	-52 53.2	-52 441		
	3 36 20	-52 53.2	-53 591		
	3 36 20	-52 53.2	3 40 28 -52 33.8	3 39 06	-52 33.4
	Δα = 278"	Δδ = 23.9'	3 35 50 -52 577		
	= 42.1 mm	= 22.9 mm			
164	3 34 15	-52 7.2	-52 424		
	3 34 15	-52 7.2	-52 420		
	3 34 15	-52 7.2	3 34 46 -52 41.1	3 37 01	-51 47.4
	Δα = 182"	Δδ = 38.3'	3 31 44 -52 42.4		
	= 27.7 mm	= 38.0 mm			
f	3 34 24	-52 26.6			
	3 34 24	-52 26.6			
	~~3 34 24 -52 26.6~~			3 37 10	-52 6.8
249	3 39 26	-51 55.0	-51 442		
	3 39 26	-51 55.0	-52 424		
	3 39 26	-51 55.0	3 39 54 -51 36.3	3 42 16	-51 36.0
	Δα = 308"	Δδ = 27.8'	3 34 46 -52 4.1		
	= 48.3 mm	= 27.0			
402	3 37 49	-51 51.4			
	3 37 49	-51 51.4			
	3 37 49	-51 51.4		3 40 39	-51 32.4
~~3 Pa~~	3 36 23	-51 579			
	3 36 24	-51 57.9			
star : cf. N4269	~~3 36 24 -51 57.9~~				

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1930phae.proj.2325M

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
360	3 34 42	-51 47.1	-51 425		
	3 34 42	-51 47.1	-52 424		
3.4	3 34 42	-51 47.1	3 33 18 -51 32.3	3 37 34	-51 27.5
	Δα = 8.8"	Δδ = 31.8'	3 34 46 -52 4.1		
	= 13.6 mm.	= 32.2 mm			
395	3 36 0	-51 7.1	-51 427		
	3 36 0	-51 7.1	-51 442		
7.4	3 36 0	-51 7.1	3 34 28 -51 4.1	3 38 52	-50 47.5
	Δα = 3.26"	Δδ = 32.2'	3 39 54 -51 36.3		
	= 50.4	= 33.8			
410	3 36 15	-51 15.2			
	3 36 16	-51 15.1			
6.8	~~3 36 16~~	~~-51 15.2~~		3 39 08	-50 55.6
411	3 34 56	-51 13.3			
	3 34 56	-51 13.3			
6.0	3 34 56	-51 13.3		3 37 48	-50 53.7
396	3 38 9	-51 13.8			
	3 38 9	-51 13.8			
	3 38 9	-51 13.8		3 40 59	-50 54.8
2.4					

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1930phae.proj.2322

54 A.3339

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
✓ 366 ✓	3 39 3	-51 A.7	-51 427	✓	✓
	3 39 3	-51 A.6	-51 442		
	3 39 3	-51 A.6	3 34 RA -51 4.1	3 41 53	-50 49.6
	Δα : 3.26″	Δδ : 32.2′	3 39 54 -51 36.3		
	= 50.4 mm	= 33.2 mm			
✓ 365a ✓	3 39 20	-51 22.2			
	3 39 20	-51 22.2		✓	✓
	3 39 20	-51 22.2 ✓		3 42 10	-51 3.2
✓ 361 ✓	3 39 3	-51 2F.7			
	3 39 3	-51 2F.7		✓	✓
	3 39 3	-51 2A.7 ✓		3 41 53	-51 9.7
✓ 362 ✓	3 39 42	-51 2F.4			
	3 39 42	-51 2F.4		✓	✓
	3 39 42	-51 2A.4 ✓		3 42 32	-51 9.4
✓ 39F ✓	3 40 19	-51 A.6	-51 449		
	3 40 19	-51 A.6	-51 442	✓	
	3 40 19	-51 A.6 ✓	3 44 15 -51 6.7	3 43 08	-50 49.6
	Δα : 2.61″	Δδ : 29.6′	3 39 54 -51 36.3		
	= 42.2 mm	= 29.1 mm			
✓ 147 ✓	3 41 45	-51 16.4			
	3 41 45	-51 16.4		✓	✓
	3 41 45	-51 16.4 ✓		3 44 35	-50 57.4

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1930phae.proj.232m

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
364	3 42 A	-51 30.6			
	3 42 A	-51 30.6			
	3 42 A	-51 30.6		3 44 58	-51 11.6
~~458~~	3 44 7	-51 28.5			
	3 44 7	-51 28.5			
	~~3 44 7~~	~~-51 28.5~~		3 46 56	-51 9.9
232	3 44 11	-51 21.5			
	3 44 11	-51 21.6			
	3 44 11	-51 21.6		3 47 00	-51 3.0
~~399~~	3 44 7	-51 12.2			
	3 44 7	-51 12.2			
star of A14269	~~3 44 7~~	~~-51 12.2~~			
~~269~~	3 43 30	-51 7.7			
	3 43 30	-51 7.7			
star of A14269	~~3 43 30~~	~~-51 7.7~~			
~~456~~	~~3~~ 46 51	-51 14.9	-51 44.9		
	3 46 51	-51 14.8	-51 45.5		
	~~3 46 51~~	~~-51 14.8~~	3 44 15 -51 6.7	3 49 39	-50 56.2
	Δα = 16.7″	Δδ = 24.9′	3 47 2 -51 31.6		
	= 24.9 mm	= 26.6 mm			
234	3 45 47	-51 12.5			
	3 45 47	-51 12.5			
	3 45 47	-51 12.5		3 48 36	-50 53.9

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1930phae.proj.2321M

56 A 3339

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~19~~	3 45 13	-51 10.4	-51 449		
	3 45 13	-51 10.4	-51 445		
star: of A14269	~~3 45 13~~	~~-51 10.4~~	3 44 15 -51 6.7		
	Δα = 16.7″	Δδ = 24.9′	3 47 2 -51 31.6		
	= 24.9 mm	= 26.6 mm			
~~245~~	3 45 57	-51 19.7			
	3 45 57	-51 19.7			
star: of A14269	~~3 45 57~~	~~-51 19.7~~			
~~235~~	3 46 36	-51 16.3			
	3 46 36	-51 16.3			
	~~3 46 36~~	~~-51 16.3~~		3 49 24	-50 57.7
~~22~~	3 46 40	-51 22.4			
	3 46 41	-51 22.4			
star: of A14269	~~3 46 40~~	~~-51 22.4~~			
~~242~~	3 46 23	-51 28.3			
	3 46 22	-51 28.3			
	~~3 46 22~~	~~-51 28.3~~		3 49 10	-51 9.7 star
~~240~~	3 44 36	-51 25.4			
	3 44 37	-51 25.4			
star: of A14269	~~3 44 36~~	~~-51 25.4~~			star
~~233~~	3 44 54	-51 19.3			
	3 44 54	-51 19.3			
	~~3 44 54~~	~~-51 19.3~~		3 47 43	-51 67 0.5′

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1930phae.proj.2322M

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
✓3 ✓	3 48 18	-51 16.3	-51 45P		
	3 48 18	-51 16.3	-51 455		
	3 48 18	-51 16.3 ✓	3 48 40 -51 9.2	3 51 05	-50 58.1
	Δα = 98″	Δδ = 22.4′	3 47 2 -51 31.6		
	= 17.0 mm.	= 21.8 mm.			
✓ 1 ✓	3 49 7	-50 50.5	-50 490		
	3 49 7	-50 50.6	-51 460		
	3 ~~47~~ 49 ~~50~~ 7	-50 50.6 ✓	3 44 34 -50 22.3	3 51 56	-50 33.0
	Δα = 456″	Δδ = 39.0′	3 52 10 -51 21.3		
	= 70.5 mm.	= 43.9 mm.			
7.7 ✓ 12 b	3 47 41	-50 37.2	-50 490		
	3 47 41	-50 37.2	-51 45P		
	3 47 41	-50 37.2 ✓	3 44 34 -50 22.3	3 50 30	-50 19.6
	Δα = 246″	Δδ = 46.9′	3 48 40 -51 9.2		
	= 36.6 mm.	= 49.8 mm.			
✓ ~~454~~	3 44 52	-50 36.8			
	3 44 52	-50 36.8			
7 star: of A14269	~~3 44 52~~	~~-50 36.8~~ ✓			
✓ ~~461~~	3 46 3	-50 43.7			
	3 46 3	-50 43.8			
star: of A14269	~~3 46 3~~	~~-50 43.8~~ ✓			
✓ 17 ✓	3 45 12	-50 52.1			
	3 45 12	-50 52.2			
	3 45 12	-50 52.2 ✓		3 48 04	-50 33.8

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1930phae.proj.233PM

58 A 3339

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~16~~	3 46 28	−50 54.1	−50 490		
	3 46 28	−50 54.2	−51 458		
2 stars: cf. A14269	~~3 46 28~~	~~−50 54.2~~	3 44 34 −50 22.3		
	Δα = 246″	Δδ = 46.9′	3 48 40 −51 9.2		
	= 36.6 mm	= 49.8 mm			
g	3 43 53	−50 32.3	−50 490		
	3 43 53	−50 32.3	−51 448		
	3 43 53	−50 32.3	3 44 34 −50 22.3	3 46 45	−50 13.9
	Δα = 99″	Δδ = 49.4′	3 42 55 −51 11.7		
	= 18.0 mm	= 49.4 mm			
368	3 42 40	−50 38.7	−50 479		
	3 42 39	−50 38.7	−51 448		
	3 42 40	−50 ~~40.0~~ 38.7	3 39 55 −50 24.0	3 45 32	−50 39.6 40.3
	Δα = 180″	Δδ = 47.9′	3 42 55 −51 11.7		
	= 26.9 mm	= 44.4			
365 b	3 38 52	−50 32.1	−50 479		
	3 38 52	−50 32.1	−51 427		
	3 38 52	−50 32.1	3 39 55 −50 24.0	3 41 47	−50 12.9
	Δα = 327″	Δδ = 40.1′	3 34 28 −51 4.1		
	= 53.1 mm	= 39.2 mm			
400	3 38 18	−50 31.2			
	3 38 18	−50 31.1			
	3 38 18	−50 31.2		3 41 13	−50 12.0
399	3 37 40	−50 31.2			
	3 37 40	−50 31.2			
	3 37 40	−51 31.2		3 40 35	−50 ~~12.0~~ 11.5

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1930phae.proj.2322cm

Meb	α	δ	Comp. star	Positions in 2000 α	Positions in 2000 δ
~~159~~	3 37 44	-49 55.7	-49 44.6		
	3 37 44	-49 55.2	-50 46.5		
	~~3 37 44~~	~~-49 55.2~~	3 39 13	-49 24.3	3 40 44 -49 36.5
	Δα = 31.9″ = 51.8mm	Δδ = 42.7′ = 31.9mm	3 33 54	-50 17.0	
~~151~~	3 37 51	-50 2.2			
	3 37 51	-50 2.1			
	~~3 37 51~~	~~-50 2.2~~			3 40 46 -49 49.0
~~379~~	3 35 25	-50 1.9			
	3 35 24	-50 1.9			
	~~3 35 24~~	~~-50 1.9~~			3 39 21 -49 42.1
~~450~~	3 42 31	-49 53.2	-49 45.7		
	3 42 31	-49 53.2	-50 47.9		
star: cf. A14269	~~3 42 31~~	~~-49 53.2~~	3 45 19	-49 23.3	
	Δα = 32.2″ = 33.4mm	Δδ = 60.7′ = 44.2mm	3 39 55	-50 24.0	
451	3 41 36	-49 55.0			
	3 41 36	-49 55.0			
	~~3 41 36~~	~~-49 55.0~~			3 44 34 -49 36.2
~~452~~	3 41 23	-50 17.4			
	3 41 23	-50 17.4			
star: cf. A14269	~~3 41 23~~	~~-50 17.4~~			

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1930phae.proj.231PM

60 A. 2747

Nch	α	δ	Comp. Stars	Positions in 2000 α	δ
2	19 47 34	+19 59.3	19 41??		
	19 47 34	+19 59.2	20 4317		
	19 47 34	+19 59.2	19 46 37 +19 47.3	19 53 25	+20 14.3
	Δα = 127"	Δδ = 251'	19 48 44 +20 12.6		
	= 30.0mm.	= 25.2mm.			
ma	19 59 43	+23 15.4	23 3P75		
	19 59 44	+23 15.4	23 3P90		
	19 59 44	+23 15.4	19 5P 7 +23 7.7	20 5 41	+23 32.1
	Δα = 153"	Δδ = 16.8'	20 0 40 +23 24.5		
	= 38.2mm.	= 16.8mm.			
mb	19 59 44	+23 15.7			
	19 59 44	+23 15.7			
	19 59 44	+23 15.7		20 5 41	+23 32.4
6	19 58 30	+23 5?.	23 3PF2		
	19 58 30	+23 5?.	24 3971		
	19 58 30	+23 5.8	19 59 24 +23 55.0	20 4 27	+23 22.3
	Δα = 139"	Δδ = 18.1'	19 59 5 +24 13.1		
	= 32.1mm.	= 17.9mm.			

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1950mae.proj.2525M

A. 4257

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
4	9 1 6	-56 22.3	-56 19.7		
	9 1 6	-56 22.3	-56 19.2		
	9 1 6	-56 22.3	9 0 44 -56 13.8	9 3 50	-~~56 58.7~~
	Δα = 46"	Δδ = 10.1'	9 1 30 -56 23.9		-56 45.9
	= 11.3 mm	= 6.4 mm			
7	8 55 58	-57 13.3	-56 19.1		
	8 55 58	-57 13.3	-57 18.0		
	8 55 58	-57 13.3	8 54 8 -57 5.2	8 58 38	-~~56 49.7~~
	Δα = 188"	Δδ = 19.8'	8 57 16 -57 25.0		-57 36.9
	= 26.5 mm	= 19.6			
5	9 0 55	-57 27.9	-57 18.0		
	9 0 55	-57 27.9	-57 18.7		
	9 0 55	-57 27.9	8 57 16 -57 25.0	9 3 35	-~~57 4.3~~
	Δα = 275"	Δδ = 3.8'	9 1 51 -57 28.8		-57 51.5
	= 37.0 mm	= 6.1 mm			
13	8 41 1	-55 10.6	-54 17.8		
	8 41 2	-55 10.6	-55 16.7		
	8 41 2	-55 10.6	8 42 42 -54 55.9	8 43 42	-~~54 49.0~~
	Δα = 178"	Δδ = 26.0'	8 39 44 -55 21.9		-55 32.2
	= 24.8 mm	= 27.1 mm			
14	8 40 47	-55 4.4			
	8 40 47	-55 4.4			
	8 40 47	-55 4.4		8 43 27	-~~54 42.8~~
					-55 26.0

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1930phae.proj.2325M

62 A.4257

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
10	8 40 3	-56 A.2	-55 1696		
	8 40 4	-56 A.2	-56 1829		
	8 40 4	-56 A.2	A 38 27 -55 52.A	8 42 36	~~-55~~ ~~46.6~~
	Δα = 1A1"	Δδ = 23.9'	A 41 28 -56 16.7		-56 29.8
	= 26.3 mm	= 26.7 mm			
17	A 36 16	-57 41.3	-57 1626		
	A 36 16	-57 41.3	-57 1600		
	8 36 16	-57 41.3	A 36 47 -57 36.7	8 38 40	~~-57 20.3~~
	Δα = 130"	Δδ = 7.3'	A 34 37 -57 44.0		~~-57 62.3~~
	= 17.1 mm	= A.1 mm			-58 2.3
M	A 37 22	-58 9.2	-57 1652		
	A 37 22	-5A 9.2	-5A 1164		
	A 37 22	-58 9.2	A 39 1A -5A 0.5	8 39 42	~~-57 48.0~~
	Δα = 226"	Δδ = 17.5'	A 35 32 -58 1A.0		-58 30.4
	= 29.0 mm	= 19.1 mm			
19	A 37 4A	-5A 10.7			
	A 37 4A	-5A 10.6			
	8 37 4A	-58 10.6		8 40 08	~~-57 49.4~~
					-58 31.8
20	A 36 20	-5A 12.6			
	A 36 20	-58 12.6			
	8 36 20	-58 12.6		8 39 00	~~-57 51.4~~
					-58 33.8

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1996phae.proj.2325M

A. 4534 + IP35

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
3	15 26 14	-66 16.2	-66 27 9.5		
	15 26 14	-66 16.2	-65 30 8.5		
~~IC 4570~~	15 26 14	-66 16.2	15 26 0.8 -66 20.5	15 35 22	~~-65 55.4~~
	Δα: 112"	Δδ: 20.2'	15 25 6 -66 0.3		-66 37.0
	: 18.5 mm	: 19.4 mm			
7	15 39 20	-67 0.8	-66 28 24		
I.C. 4571	15 39 20	-67 0.8	-66 28 31		
	15 39 20	-67 0.8	15 38 8 -67 3.1	15 48 40	~~-66 41.6~~
	Δα = 128"	Δδ: 10.8'	15 40 16 -66 52.3		-67 20.0
	: 12.7 mm	: 10.9 mm			
12	16 10 3	-69 53.8	-69 20 15		
	16 10 3	-69 53.8	-69 25 26		
I 4595	16 10 3	-69 53.8	16 9 26 -70 2.7	16 20 27	~~-69 38.2~~
	Δα: 130"	Δδ: 31.0'	16 11 36 -69 31.7		-70 9.4
	: 14.9 mm	: 29.9 mm			
A. 1435					
2	17 43 4	-24 42.2	-24 13 5 19		
	17 43 4	-24 42.4	-24 13 5 35		
	17 43 4	-24 42.3	17 43 0 -24 42.0	17 49 12	-24 44.7
	Δα: 88"	Δδ: 16.6'	17 44 24 -24 31.4		
	: 19.6 mm	: 16.5 mm			

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1930phae.proj.2324M

neb	α	δ	Comp. star	Positions in 2000 α	Positions in 2000 δ
÷4	7 33 25	-57 15.6	-57 12.3	✓	✓
	7 33 25	-57 15.6	-57 12.7		
	7 33 25	-57 15.6	7 31 47 -57 32.6	7 35 17	-57 27.2
	Δα: 139"	Δδ: 28.1'	7 34 4 -57 4.5		
	: 16.9 mm	: 29.9 mm			
7	7 46 54	-55 59.3	-56 14.25		
	7 46 59	-55 59.3	-55 13.73	✓	✓
	7 46 54	-55 59.3	7 48 51 -56 17.6	7 49 14	-56 14.9
	Δα: 345"	Δδ: 36.8'	7 49 51 -55 40.8		
	: 50.8 mm	: 37.9 mm			
A.4535					
14	15 16 56	-78 31.5	-78 9.99		
	15 16 56	-78 31.5	-78 10.00	✓	✓ 3.5
	15 16 56	-78 31.0	15 16 18 -78 36.7	15 30 20	-78 59.0
	Δα: 69"	Δδ: 12.6'	15 17 27 -78 24.1		
	: 4.7 mm	: 1.23 mm			
12	14 53 35	-79 14.8	-79 7.89		
	14 53 32	-79 14.8	-79 7.98		
star	14 53 34	-79 14.8	14 42 22 -79 28.5		
	Δα: 854"	Δδ: 9.9'	14 56 36 -79 13.6		
	: 39.3 mm	: 12.2 mm			
10	15 0 26	-79 33.5	-79 8.13		
	15 0 26	-79 33.5	-79 7.98	✓	57.1
	15 0 26	-79 33.5	15 3 41 -79 42.7	15 14 06	-79 39.0
	Δα: 425"	Δδ: 29.1'	14 56 36 -79 13.6		
	: 19.4 mm	: 29.5 mm			

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1936phae.proj.232PM

A.4535

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
11	14 50 36	-79 42.4	-79 792		
	14 50 36	-79 42.1	-79 793		
	14 50 36	-79 42.1	14 4P 1P -79 52.5	15 04 00	-80 6.9
	Δα = 15.8"	Δδ = 15.5'	14 50 56 -79 37.0		
	= 6.2mm.	= 16.1mm.			
23	15 47 45	-78 25.2	-7P 10P3		
star	15 47 45	-7P 25.2	-7P 1061		
	15 47 45	-7P 25.2	15 52 26 -7P 26.2		
	Δα = 5.9"	Δδ = 1.1'	15 42 33 -7P 25.1		
	= 29.1mm.	= 7.3mm			
9	14 33 53	-77 27.P	-77 9P6		
star	14 33 53	-77 27.P	-77 1004		
	14 33 53	-77 27.8	14 2P 47 -77 31.2		
	Δα = 5.11"	Δδ = 8.4'	14 37 1P -77 22.P		
	= 26.9mm.	= 11.Pmm			
7	14 32 40	-76 6.7	-76 850		
	14 32 39	-76 6.7	-76 1016		
	14 32 40	-76 6.7	14 30 59 -76 11.3	14 43 20	-76 33.1
	Δα = 3.26"	Δδ = 7.8'	14 36 25 -76 3.5		
	= 18.Pmm.	= 10.0mm			

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1930phae.proj.2324M

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
6	15 56 41	-68 41.3	-68 2618		
	15 56 41	-68 41.2	-68 2609	16 6 37	-68 58.4
	15 56 41	-68 41.2	15 58 37 -68 55.3		
	Δα: 234"	Δδ: 43.3'	15 55 4 -68 12.0		
	= 25.7mm	= 41.6mm			
5	15 56 39	-67 27.2	-67 3018		
	15 56 39	-67 27.2	-67 3015		
	15 56 39	-67 27.2	15 59 16 -67 32.6	16 06 23	-67 44.4
	Δα: 40"	Δδ: 14.1'	15 56 36 -67 18.5		
	= 5.2mm	= 13.6mm			
3	16 35 31	-66 23.1	-66 2997		
	16 35 31	-66 23.1	-65 3361		35.3
	16 35 31	-66 23.1	16 31 26 -66 35.4	16 45 27	-66 34.7
	Δα: 524"	Δδ: 36.8'	16 40 10 -65 58.6		
	= 55.2mm	= 33.8mm			
4	16 43 5	-65 42.0	-65 3361		
	16 43 5	-65 42.0	-65 3381		
	16 43 5	-65 42.8	16 40 10 -65 58.6	16 51 49	-65 53 2
	Δα: 595"	Δδ: 11.0'	16 50 5 -65 47.6		
	= 62.2mm	= 4.7mm			
2	16 51 54	-69 16.9	-69 2645		
	16 51 54	-69 16.9	-69 2618		
	16 51 54	-69 16.9	16 44 28 -69 19.0		
	Δα: 725"	Δδ: 11.6'	16 56 33 -69 7.4	17 02 42	-69 26.9
	= 61.6mm	= 4.5mm			

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1930phae.proj.2327M

A.4539 & 4595

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
1	16 37 41	-69 1P.6	-69 2645		
	16 37 41	-69 1P.7	-69 2616		
	16 37 41	-69 1P.6	16 44 2P -69 19.0	16 48 25	-69 30.6
	Δα = 63P"	Δδ: 1.6'	16 33 50 -69 20.1		
	= 6.0mm	= 3.5mm			

Cont. p. 145

A.4595

1	17 32 4P	-7P 59.3	-79 935		
	17 32 4P	-7P 59.3	-7P 1145		
	17 32 4P	-7P 59.3	17 33 4P -79 14.9	17 49 16	-78 63.3 -79 3.3
	Δα = 123"	Δδ = 25.1'	17 31 45 -7P 49.P		
	= 3.0mm	= 25.7mm			
2	17 19 P	-76 19.P	-76 1212		
	17 19 P	-76 19.P	-76 1210		
	17 19 P	-76 19.P	17 21 34 -76 4P.3	17 33 20	-76 25.8
	Δα: 293"	Δδ: 39.6'	17 16 41 -76 P.7		
	= 16.0mm	= 40.1mm			
3	16 4P 52	-77 39.1	-77 1235		
	16 4P 52	-77 39.1	-77 1238		
	16 4P 52	-77 39.1	16 4P 24 -77 55.6	17 03 44	-77 49.1
	Δα: 2P6"	Δδ: 33.3'	16 53 10 -77 22.3		
	= 13.1mm	= 29.7mm			
5	16 31 52	-7P 44.5	-7P 1111		
	16 31 51	-7P 44.5	-7P 1115		
	16 31 52	-7P 44.5	16 2P 45 -7P 5P.4	16 47 20	-78 57.3
	Δα: 43P"	Δδ: 22.7'	16 36 3 -7P 35.7		
	= 19.6mm	= 26.1mm			

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1930phae.proj.232PM

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
1	17 39 30	-70 4.4	-70 2420		
	17 39 30	-70 4.4	-70 2432		
	17 39 30	-70 4.4	17 37 5P -70 4.9	17 50 42	-70 7.2
	Δα: 27P"	Δδ: 2.P'	17 42 36 -70 2.1		
	= 23.9mm	= 3.7mm			
2	17 57 47	-69 9.9	-69 2P37		
	17 57 47	-69 9.9	-6P 3036		
	17 57 47	-69 9.9	17 59 42 -69 21.9	18 08 51	-69 10.3
	Δα: 211"	Δδ: 22.P'	17 56 11 -6P 59.1		
	= 17.Pmm	= 23.6mm		7.	-67 3343
					-67 3341
3	17 52 36	-6P 55.7	-6P 3036	17 30 10	-67 47.7
	17 52 36	-6P 55.7	-6P 3010	17 26 42	-67 31.2
	17 52 36	-6P 55.7	17 56 11 -6P 59.1	Δα: 20P"	Δδ: 16.5'
	Δα: 311"	Δδ: 3.2'	17 51 0 -6P 55.9	= 21.7mm	= 14.8mm
	= 28.1mm	= 3.Pmm		18 03 24	-68 56.9
				17 2P 56	-67 43.7
4	1P 1 20	-67 39.0	-67 34P0	17 28 56	-67 45.7
	1P 1 20	-67 39.0	-67 3466	17 28 56	-67 40.7
	1P 1 20	-67 39.0	1P 2 49 -67 44.9	17 39 24	-67 50.1
	Δα: 28.6"	Δδ: 15.0'	17 5P 3 -67 29.9		
	= 26.9mm	= 16.6mm		18 11 48	-67 39.4
5	1P 10 26	-64 44.9	-64 3PP5		
= I. 4696	1P 10 26	-64 45.0	-64 3P61		
	18 10 26	-64 45.0	1P 13 58 -64 45.4	18 20 54	-64 46.6
	Δα: 306"	Δδ: 2.2'	1P P 52 -64 47.6		
	= 33.Dmm	= 1.5mm			

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1930phae.proj.2320M

A. 4598 + 5044

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
6	17 49 26	-65 13.2	-65 3561		
	17 49 27	-65 13.2	-65 3532		
	17 49 26	-65 13.2	17 50 38 -65 1P.0	17 59 26	-65 14.8
	Δα: 206″	Δδ: 12.3′	17 47 12 -65 5.7		
	= 21.9mm.	= 12.9mm.			
A. 5044					
2	10 36 20	-69 27.8	-69 1349		
star	10 36 20	-69 27.8	-6P 1219		
	10 36 20	-69 27.8	10 39 1P -69 35.9		
	Δα: 432″	Δδ: 30.0′	10 32 6 -69 5.9		
	= 36.1mm.	= 33.0mm.			
3	10 29 4	-69 4P.9	-6P 1219		
	10 29 5	-69 4P.9	-6P 11PP		
	10 29 4	-69 4P.9	10 32 6 -69 5.9	10 31 56	-69 79.7
	Δα: 205″	Δδ: 26.2′	10 2P 41 -6P 39.7		
	= 1P.3mm.	= 2P.0mm.			
10	10 7 29	-66 30.6	-66 11P9		
	10 7 29	-66 30.6	-66 1196		
	10 7 29	-66 30.6	10 6 34 -66 35.3	10 10 9	-67 0.2
	Δα: 102″	Δδ: 10.2′	10 P 16 -66 25.1		
	= 9.9mm.	= 10.9mm.			
11	10 0 4	-66 24.1	-66 1155		
star 1 f.m.	10 0 3	-66 24.0	-66 1167		
	10 0 4	-66 24.0	9 59 12 -66 26.1		
	Δα: 141″	Δδ: 7.3′	10 1 33 -66 1P.P		
	= 14.0mm.	= P.5mm.			

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1930phae.proj.233PM

70 A.5044 + 3635 (C.C. by D. M.W.)

Neb.	α	δ	Comp-stars	Positions 1 1/2 2000 α	δ
12	9 54 A	-67 31.6	-67 1164		
	9 54 A	-67 31.7	-67 1178		
	9 54 B	-67 31.6	9 51 40 -67 48.4	9 56 24	-67 59.6
	Δα: 356"	Δδ: 37.2'	9 57 36 -67 11.2		
	: 30.3 mm.	: 40.9 mm.			
13	10 0 20	-67 35.2	-67 1129		
	10 0 20	-67 35.2	-67 1178		
	10 0 20	-67 35.2	10 1 31 -67 45.4	10 2 44	-68 5.0
	Δα: 235"	Δδ: 34.2'	9 57 36 -67 11.2		
	: 25.8 mm.	: 32.6 mm.			
f. double star	9 59 10	-67 22.2			
	9 59 10	-67 22.2			
	9 59 10	-67 22.2			
A.3635					
7	16 25 46	-20 54.7	-20 4502		
now a neb.	16 25 46	-20 54.7	-20 4507		
H.S.	16 25 46	-20 54.7	16 25 1 -21 5.3		
	Δα: 106"	Δδ: 18.8'	16 26 47 -20 46.5"		
	: 26.0 mm.	: 18.3 mm.			
8	16 22 56	-20 38.3	-20 4492		
	16 22 56	-20 38.3	-20 4496	~~16 29 48~~	-22 52.3
	16 22 56	-20 38.3	16 21 57 -20 42.1	16 28 48	
	Δα: 83"	Δδ: 9.4'	16 23 20 -20 32.7		
	: 20.2 mm.	: 9.6 mm.			

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1930phae.proj.2322M

A. 3625

Neb.	α	δ	Comp. Star	Positions in 2000 α	Positions in 2000 δ
9	16 21 47	-20 32.9	-20 4492		
	16 21 47	-20 32.9	-20 4490		
dyfract	16 21 47	-20 32.9	16 21 57 -20 42.1		
	Δα: 101"	Δδ: 2A.6'	16 20 16 -20 13.5		
	= 23.6	= 2A.9 mm			
10	16 20 55	-20 20.5			
not a neb	16 20 54	-20 20.5			
H.S.	16 20 54	-20 20.5			
12	16 15 4	-19 10.A	-19 4360		
	16 15 3	-19 10.A	-1A 4271		
	16 15 4	-19 10.A	16 14 20 -19 16.7	16 20 54	-19 25.4
	Δα: A9"	Δδ: 17.A'	16 15 49 -1A 5A9		
	= 22.1 mm	= 17.A mm			
14	16 10 57	-20 47.0	-20 4447		
	16 10 57	-20 47.0	-20 4453		
	16 10 57	-20 47.0	16 10 29 -21 2.6	16 16 49	-21 2.2
	Δα: 32"	Δδ: 30.2'	16 11 1 -21 32.4		
	= 6.9 mm	= 30.7 mm			
15	16 9 11	-20 32.4	-20 4453		
	16 9 11	-20 32.4	-20 4437		
	16 9 11	-20 32.4	16 11 1 -20 32.4	16 15 3	-20 47.6
	Δα = 212"	Δδ: 7.0'	16 7 29 -20 25.4		
	= 50.2 mm	= 5.A mm			

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1930phae.proj.232PM

72 A.3135 + 4248, 4265

Nbs.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
16	16 6 59	-21 21.9	-21 4303		
	16 6 59	-21 21.6	-21 4297		
	16 6 59	-21 21.6	16 7 41 -21 39.6	16 12 53	-21 37.4
	Δα: 88"	Δδ: 32.2'	16 6 13 -21 7.4		
	= 20.5 mm	= 32.3 mm			
17	16 8 31	-22 11.6	-22 4129		
	16 8 31	-22 11.6	-21 4307		
	16 8 31	-22 11.6	16 9 45 -22 33.8	16 14 27	-22 27.0
	Δα: 91"	Δδ: 39.1'	16 8 14 -21 54.9		
	= 21.2 mm	= 39.5 mm			
A.4248					
2	9 10 26	-58 14.9	-58 1428		
	9 10 26	-58 14.9	-58 1439		
	9 10 26	-58 14.9	9 9 58 -58 18.4	9 13 6	-58 39.7
	Δα: 106"	Δδ: 6.1'	9 11 44 -58 12.3		
	= 18.8 mm	= 3.7 mm			
A.4265					
1	8 21 29	-55 47.1	-55 1523		
	8 21 29	-55 47.1	-55 1551		
	8 21 29	-55 47.1	8 19 27 -55 54.3	8 23 57	-56 5.1
	Δα: 295"	Δδ: 15.5'	8 24 12 -55 32.8		
	= 40.6 mm	= 15.3 mm			

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1936phae.proj.2327M

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
6	10 3 37	-58 36.4	-58 1921		
2 stars	10 3 37	-58 36.4	-58 1912		
7.4	10 3 37	-58 34.4	10 4 4 -58 45.6		
	Δα: 28"	Δδ: 22.6'	10 3 36 -58 23.0		
	= 3.9 mm.	= 31.4 mm.			
22	10 30 25	-55 55.6	-55 3604		
	10 30 25	-55 55.6	-55 3528		
7.0 defect	10 30 25	-55 55.6	10 31 47 -55 56.7		
	Δα: 252"	Δδ: 1.7'	10 27 35 -55 55.0		
	= 35.0 mm.	= 2.2 mm.			
23	10 31 14	-55 56.6			
defect	10 31 14	-55 56.6			
9.7	10 31 14	-55 56.6			
A.4398					
3	12 25 7	-75 48.5	-76 734		
	12 25 7	-75 48.5	-75 820		
	12 25 7	-75 48.5	12 21 20 -76 12.1	12 31 13	-76 21.7
	Δα: 207"	Δδ: 28.9'	12 24 47 -75 43.2		
	= 15.5 mm.	= 27.6 mm.			
5.1					
4	12 28 39	-76 34.8	-76 735		
	12 28 40	-76 34.8	-76 738		
	12 28 40	-76 34.8	12 21 24 -76 31.3	12 55 46	-77 7.6
	Δα: 844"	Δδ: 4.0 mm.	12 55 28 -76 55.3		
	= 48.6 mm.	= 9.8 mm.			

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1930phae.proj.232PM

74 A.4400

Nebula	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
3	11 43 27	-74 7.6	-74 A5·3		
	11 43 27	-74 7.6	-73 APA.		
	11 43 27	-74 7.6	11 45 30 -74 22.5	11 47 51	-74 40.8
	Δα: 294″	Δδ: 41.2′	11 40 36 -73 41.3		
	= 25.6 mm	= 38.1 mm			
4	11 34 45	-73 50.9	-74 A2L		
	11 34 45	-73 50.9	-73 AP2		
	11 34 45	-73 50.9	11 29 21 -74 15·5	11 39 2	-74 24.1
	Δα: 543″	Δδ: 44.4′	11 38 24 -73 31.1		
	= 26.8 mm	= 53.0 mm			
5	11 36 48	-73 40.1			
	11 36 48	-93 40.2			
	11 36 48	-73 40.2		11 41 10	-74 13.4
7	11 52 33	-73 7.0	-73 912		
= IC. 2980	11 52 33	-73 7.0	-72 1164		
	11 52 33	-73 7.0	11 53 53 -73 14·2		
	Δα: 534″	Δδ: 29.5′	11 44 59 -72 44.7		
	= 42.7 mm	= 24.3 mm			
8	11 49 13	-72 5 8.2			
	11 49 13	-72 58.2			
	11 49 13	-72 08.2		11 57 25	-73 40.2
18	12 10 52	-72 1.4	-72 1231		
star	12 10 52	-72 1.4	-72 1237		
	12 10 52	-72 1.4	12 9 37 -72 6.1		
	Δα: 257″	Δδ: 7.6′	12 13 54 -71 58.5		
	= 19.3 mm	= 8.3 mm			

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1936phae.proj.2325M

A.4400

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
23	12 31 3	-72 2.7	-71 1356		
	12 31 3	-72 2.7	-71 1339		
0.8	12 31 3	-72 2.7	12 33 53 -72 6.8	12 37 3	-72 35.9
	Δα: 404"	Δδ: 5.3'	12 27 9 -72 1.5		
	: 30.9mm.	: 6.7mm.			
24	12 29 16	-73 39.4	-73 1015		
	12 29 16	-73 39.4	-73 1002		
4.1	12 29 16	-73 39.4	12 32 45 -74 1.4	12 35 24	-74 12.6
	Δα: 268"	Δδ: 28.8'	12 28 17 -73 32.6		
	: 17.7mm.	: 29.8mm.			
40	~~12 37 14~~	-74 22.1	-74 964		
star	12 37 14	-74 22.1	-73 1015		
3.4	12 37 14	-74 22.1	12 28 17 -74 30.3		
	Δα: 332"	Δδ: 28.9'	12 32 45 -74 1.4		
	: 20.6	: 31.0			
38	12 41 53	-71 57.1	-71 1356		
	12 41 51	-71 57.1	-71 1396		
	12 41 52	-71 57.1	12 33 53 -72 6.8	12 48 16	-72 29.9
	Δα: 732"	Δδ: 8.1'	12 46 5 -71 58.7		
	: 57.2mm.	: 9.1mm.			
10.2					
31	12 41 22	-70 30.6	-70 1511		
	12 41 22	-70 30.6	-70 1533		
	12 41 22	-70 30.6	12 37 33 -70 29.3	12 47 36	-71 3.4
	Δα: 273"	Δδ: 2.5'	12 42 6 -70 31.8		
	: 22.5mm.	: 4.3mm.			

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1930phae.proj.232PM

76 A.5355, 4402, 4466

Nebs.	α	δ	Comp. Stars	Positions 1950 α	Positions 1950 δ
C	11 44 26	-72 18.8	-72 1168		
	11 44 29	-72 18.8	-71 1274		
	11 44 28	-72 18.8	11 46 26 -72 30.2	11 49 8	-72 52.0
	Δα: 472"	Δδ: 36.8'	11 38 34 -71 53.4		
	= 35.5 mm	= 37.5 mm			
A.4402					
4	13 13 20	-77 1.0	-77 897		
	13 13 21	-77 1.0	-76 751		
	13 13 20	-77 1.0	13 17 46 -77 12.7	13 21 28	-77 33.0
	Δα: 716"	Δδ: 16.9'	13 5 50 -76 55.8		
	= 39.6 mm	= 18.8 mm			
7	13 25 21	-79 21.5	-79 735		
	13 25 26	-79 21.5	-79 728		
	13 25 26	-79 21.5	13 26 34 -79 26.1	13 34 56	-79 52.7
	Δα: 602"	Δδ: 15.4'	13 16 32 -79 10.7		
	= 26.1 mm	= 18.2 mm			
A.4466					
3	13 22 52	-79 56.1	-79 740		
	13 22 51	-79 56.1	-79 730		
	13 22 52	-79 56.1	13 31 12 -80 4.1	13 32 26	-80 28.1
	Δα: 709"	Δδ: 19.9'	13 19 23 -79 44.2		
	= 34.0	= 15.4 mm			
9	13 34 40	-79 49.4	-79 740		
	13 34 39	-79 49.3	-79 743		
	13 34 40	-79 49.4	13 31 12 -80 4.1	13 44 46	-80 20.2
	Δα = 526"	Δδ: 52.9'	13 39 58 -79 11.2		
	= 18.5 mm	= 55.6 mm			

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1936phae.proj.2325M

A 4466

Nebs.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
21	13 35 57	-79 2P.3			
	13 35 56	-79 2P.3			
	13 35 56	-79 2P.3		13 45 57	-79 58.7
P	13 5 37	-7P 19.3	-7P 7PP		
	13 5 37	-7P 19.3	-7P 799		
star	13 5 37	-7P 19.3	12 59 15 -7P 12.0		
	Δα = 591"	Δδ = 9.7'	13 9 6 -7P 21.7		
	= 27.7mm.	= 13.2			
9	13 15 7	-77 59.2	-7P P0P		
	13 15 7	-77 59.2	-77 P95		
	13 15 7	-77 59.2	13 16 15 -7P 9.P	13 23 34	-78 41.0
	Δα = 173"	Δδ = 30.7'	13 13 22 -77 39.1		
	= 17.7mm.	= 44.2mm			
11	13 17 13	-7P 2.0	-7P P22		
	13 17 14	-7P 2.0	-77 P95		
	13 17 14	-7P 2.0	13 20 36 -7P 22.2	13 25 51	-78 33.6
	Δα = 434"	Δδ = 43.1'	13 13 22 -77 39.1		
	= 60.2mm.	= 340mm.			
3P a	13 30 14	-7P P.3	-7P P22		
	13 30 15	-7P P.4	-77 903		
	13 30 14	-78 P.4	13 30 36 -7P 22.2	13 39 25	-78 39.2
	Δα = 64"	Δδ = 57.2'	13 29 32 -77 25.0		
	= 10.4mm.	= 56.5mm.			

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1930phae.proj.232PM

78 A.4466

Neb	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
38.8	13 30 21	-78 A7	-78 A22		
	13 30 21	-78 R6	-77 903		
	13 30 21	-78 8.6	13 30 36 -78 22.2	13 39 33	-78 39.4
	Δα: 64"	Δδ: 37.2'	13 29 32 -77 25.0		
	= 10.4mm	= 56.3mm			
37	13 30 23	-78 1.6			
	13 30 23	-78 1.6			
	13 30 23	-78 1.6		13 39 35	-78 32.4
25	13 29 55	-77 47.9			
	13 29 55	-77 47.9			
	13 29 55	-77 47.9		13 38 47	-78 18.7
36	13 32 17	-77 55.7	-78 822		
	13 32 16	-77 55.7	-77 913		
	13 32 16	-77 55.7	13 30 36 -78 22.2	13 41 12	-78 26.5
	Δα = 669"	Δδ: 46.2'	13 41 45 -77 36.0		
	= 31.3mm	= 34.2mm			
29	13 41 2	-77 45.3			
	13 41 2	-77 45.3			
	13 41 2	-77 45.3		13 50 22	-78 15.7
27	13 23 26	-77 14.4	-77 898		
	13 23 21	-77 14.4	-76 771		
	13 23 20	-77 14.4	13 22 4 -77 32.5	13 31 56	-77 45.2
	Δα = 483"	Δδ: 49.2'	13 30 7 -76 43.3		
	= 22.1mm	= 37.6mm			

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1930phae.proj.232PM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
2F	13 25 49	-76 5 7.5			
	13 25 49	-76 57.5			
	13 25 49	-76 5 7.5		13 34 29	-77 28.1
30	~~13 43 12~~	-77 21.4	-77 913		
	13 43 12	~~-77 21.4~~	-77 920		
star	13 43 12	-77 21.4.	13 41 45 -77 36.0		
	Δα: 3 12"	Δδ: 22.5'	13 46 57 -77 13.5		
	= 14.7mm.	= 39.0mm.			
37	~~13 43 13~~	-75 35.1	-75 910		
	13 43 13	~~-75 35.1~~	-75 904		
star	13 43 13	-75 35.1	13 46 28 -75 46.6		
	Δα = 2 28"	Δδ: 16.9'	13 41 28 -75 29.7		
	= 11.2mm	= 13.8mm			
38	13 59 2	-76 19.5	-76 804		
	13 59 2	-76 19.5	-76 801		
	13 59 2	-76 19.5	14 2 3 -76 37.0	14 8 46	-76 48.3
	Δα: 333"	Δδ: 26.7'	13 56 30 -76 10.3		
	= 19.1mm	= 26.9mm			
35	14 7 15	-75 10.7	-75 954		
	14 7 16	-75 10.7	-75 1149		
	14 7 16	-75 10.7	14 15 25 -75 25.4	14 16 48	-75 39.1
	Δα: 628"	Δδ: 19.1'	14 4 2 -75 6.3		
	= 42.7mm	= 21.7mm			

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1930phae.proj.232FM

Neb.	α	δ	Comp. Stars
49	14 22 19	-75° 16.6	-75 954
	14 22 19	-75° 16.6	-75 973
star	14 22 19	-75 16.6	14 15 25 -75 25.4
	Δα = 542″	Δδ = 11.2′	14 24 27 -75 142
	= 35.5mm	= 8.2mm	
55	14 36 25	-75° 42.3	-75 1033
	14 36 25	-75° 42.4	-75 990
star	14 36 25	-75 42.4	14 42 9 -75 50.3
	Δα = 721″	Δδ = 23.3′	14 30 8 -75 27.0
	= 40.9mm	= 30.2mm	
56	14 34 55	-75° 40.0	
	14 34 55	-75° 40.1	
star	14 34 55	-75 40.0	
57	14 31 54	-75° 34.6	
	14 31 54	-75° 34.6	
star	14 31 54	-75 34.6	
58	14 31 56	-75° 36.0	
	14 31 55	-75° 36.0	
star	14 31 56	-75 36.0	
54	14 40 52	-76° 6.1	-76 888
	14 40 52	-76° 6.1	-75° 1033
3 stars	14 40 52	-76 6.1	14 38 52 -76 25.7
	Δα = 197″	Δδ = 35.4′	14 42 9 -75 50.3
	= 18.0mm	= 32.9mm	

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1996plate.proj.292cm

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
53	14 32 48	-76 43.0	-76 851		
	14 32 49	-76 43.0	-76 888		
	14 32 48	-76 43.0	14 31 19 -76 53.7	14 43 43	-77 9.6
	Δα: 453"	Δδ: 28.0'	14 38 52 -76 25.7		
	= 30.4 mm.	= 24.0 mm.			
66	14 27 49	-77 39.2	-77 970		
	14 27 49	-77 39.2	-77 986		
	14 27 49	-77 39.2	14 23 38 -77 41.4	14 39 5	-78 5.6
	Δα: 309"	Δδ: 10.2'	14 28 47 -77 31.2		
	= 19.8 mm.	= 8.3 mm.			
43	14 28 17	-78 22.1	-78 872		
	14 28 18	-78 22.1	-77 1003		
=I.C. 4448	14 28 18	-78 22.1	14 23 6 -78 38.9	14 39 59	-78 48.5
	Δα: 841"	Δδ: 43.7'	14 37 7 -77 55.2		
	= 48.6 mm.	= 37.8 mm.			
46	14 34 24	-78 7.1			
	14 34 24	-78 7.1			
	14 34 24	-78 7.1		14 46 9	-78 33.1
47	14 51 22	-78 43.3	-78 919		
Two stars	14 31 28	-78 43.3	-78 945		
	14 51 22	-78 43.3	14 43 12 -78 59.3		
	Δα: 654"	Δδ: 20.1'	14 54 6 -78 39.2		
	= 35.5 mm.	= 12.9 mm.			

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1930phae.proj.2325M

82 A.4466, A.4533

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
n	14 40 12	-79 14.3	-79 7F3		
star	14 40 12	-79 14.3	-7F 919		
	14 40 12	-79 14.3	14 3F 5 -79 31.0		
	Δα: 307"	Δδ: 31.7'	14 43 12 -7F 59.3		
	= 20.0mm	= 2F.9mm			
A.4533					
11	14 44 56	-73 39.7	-73 1391		
	14 44 56	-73 39.7	-73 13F2		
	14 44 56	-73 39.7	14 45 37 -73 46.9	14 55 5	-74 4.9
	Δα: 12F"	Δδ: 10.0'	14 43 49 -73 36.7		
	= 9.7mm	= 9.2mm			
b	14 44 33	-72 43.7	-72 1592		
	14 44 33	-72 43.7	-72 1619		
	14 44 33	-72 43.7	14 41 20 -72 47.8	14 56 1	-73 8.9
	Δα: 29F"	Δδ: 9.1'	14 46 1F -72 3F.7		
	= 21.F	= 10.7mm			
3	14 53 37	-72 13.4	-72 1655		
	14 53 37	-72 13.4	-72 16F0		
	14 53 37	-72 13.4	14 53 25 -72 21.9	15 3 29	-72 37.8
	Δα: 220"	Δδ: 12.6'	14 57 5 -72 9.1		
	= 16.4mm	= 13.2mm			
13	14 55 31	-72 2.3	-72 16F0		
N.G.C. 5799	14 55 31	-72 2.3	-71 1723		
	14 55 31	-72 2.3	14 57 5 -72 9.1	15 5 24	-72 26.3
	Δα: 24F"	Δδ: 11.3'	14 52 57 -71 57.A		
	= 19.3mm	= 11.0mm			

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1936phae.proj.2925M

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
14	15 7 30	-71 9.3	-71 1791		
	15 7 30	-71 9.3	-70 19A9		
	15 7 30	-71 9.3	15 9 3 -71 1A.9	15 17 21	-71 32.1
	Δα = 164″	Δδ = 35.0′	15 6 19 -70 43.9		
	= 12.3mm	= 30.9mm			
16	15 19 56	-70 14.1	-70 20A0		
I.C. 4641	15 19 56	-70 14.2	-70 20°4		
	15 19 56	-70 14.2	15 24 8 -70 32.6	15 29 48	-70 358
	Δα = 932″	Δδ = 24.6′	15 1A 36 -70 A.0		
	= 20.9mm	= 27.2mm			
2	15 14 26	-71 02.3	-72 1753		
	15 14 26	-71 02.3	-71 1A19		
	15 14 26	-71 02.3	15 10 03 -72 23.1	15 24 37	-72 14.3
	Δα = 260″	Δδ = 43.3′	15 15 1A -71 39.A		
	= 23.0mm	= 42.3mm			
19	15 16 33	-72 17.6	-72 17°3		
	15 16 32	-72 17.6	-72 1A07		
	15 16 32	-72 17.6	15 10 03 -72 23.1	15 26 58	-72 39.6
	Δα = 636″	Δδ = 13.0′	15 21 29 -72 10.1		
	= 49.3mm	= 9.9mm			
23	15 10 0	-72 40.0	-72 1747		
	15 10 0	-72 40.0	-72 1753		
	15 10 0	-72 40.0	15 9 51 -72 50.9	15 20 25	-73 2.4
	Δα = 62″	Δδ = 32.8′	15 10 53 -72 23.1		
	= 8.7mm	= 33.0mm			

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1930phae.proj.231PM

A. 4033 & 6419

Neb	α	δ	Comp. Stars	Positions in 2000 α	δ
20	15 17 21	-73 2A.F	-73 15 72		
	15 17 21	-73 2A.9	-73 15 66		
	15 17 21	-73 2A.8	15 1A 26 -73 47.6	15 28 11	-73 50.4
	Δα: 4A"	Δδ: 2A.9'	15 17 38 -73 1A.2		
	: 1.4mm.	: 29.6mm			
5	15 39 10	-74 23.6	-74 1496		
	15 39 10	-74 23.6	-74 1494		
	15 39 10	-74 23.6	15 39 5.1 -74 29.9	15 50 48	-74 42.8
	Δα: 43.1"	Δδ: 13.1'	15 39 6 -74 16.6		
	: 1.1mm	: 13.4mm			
1A	~~14 59 51~~	-75 2AA	-75 1117		
star	14 59 51	-75 2A.9	-75 1105		
	14 59 51	~~-75 2A.A~~	15 1 56 -75 34.1		
	Δα: 169"	~~Δδ: 13.8'~~	14 59 7 -75 20.3		
	: 9.0mm	: 10.4mm			
A. 6419					
3	13 27 6	-52 50.6	-52 6591		
	13 27 6	-52 50.6	-52 6544		
	13 27 6	-52 50.6	13 29 10 -53 1.6	13 33 10	-53 21.4
	Δα: 213"	Δδ: 31.2'	13 25 37 -52 30.4		
	: 32.6mm	: 31.2mm.			
a	13 36 47	-52 26.4	-52 6715		
	13 36 47	-52 26.4	-52 66P4		
	13 36 47	-52 26.4	13 3P 25 -52 32.4	13 43 5	-52 56.8
	Δα: 220"	Δδ: 15.0'	13 34 45 -52 17.4		
	: 37.2mm	: 16.3			

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1936phae.proj.2320M

A·6419 6 7 D 215·6

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
8	13 4F 14	-5 2 22.4	-5 2 6F23		
	13 4F 14	-5 2 22.4	-5 2 6F33		
	13 4F 14	-5 2 22.4	13 4F 7 -5 2 23.6		
	Δα = 49″	Δδ = 10.3′	13 4F 0·6 -5 2 13.3	3 faint stars checked on A5914.	
	= 10·3mm	= 11·7mm.			
4	13 34 11	-5 0 40.5	-5 1 6250		
I C·4312	13 34 11	-5 0 40.5	-4 9 6233		
	13 34 11	-50 40.5	13 36 6 -5 1 A.9	13 40 23	-51 11,3
	Δα = 262″	Δδ = 69.4′	13 31 44 -5 0 05		
	= 3A.3mm	= 79·9mm			
A·6705·0					
2	12 3 39	-5 1 26.0	-5 1 5F25		
	12 3 39	-5 1 26.0	-5 1 5F04		
see also	12 3 39	-5 1 26.6	13 3 0F -5 1 2F.4	12 8 49	-5 1 59.6
Bk I, pp. 104	Δα = A1″	Δδ = 13.3′	13 2 37 -5 1 10·1		
& Bk. II pp. 171	= 13.0mm	= 13.1mm.			
A·215·6	5 34 1F	-3 30.3	-3 1162		
4	5 34 1F	-3 30.3	-3 1167		
defect	5 34 1F	-3 30.3	5 33 19 -3 37.1		
	Δα = 96″	Δδ = 13.4″	5 34 55 -3 23·7		
	= 24.2mm	= 13.Amm			
7	5 40 1F	-6 13.9	-7 1167		
star	5 40 1F	-6 13.F	-6 1310		
	5 40 1F	-6 13.8	5 40 41 -6 59.4		
	Δα = 73″	Δδ = 60.1′	5 41 54 -5 59.3		
	= 3.5mm.	= 59.6mm			

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1930phae.proj.233PM

210-6, 2513

Feb.	α	δ	Comp. Stars	Positions in 2000 α	δ
9	5 43 17	-3 3A.9	-4 1239		
two stars	5 43 17	-3 3A.A	-3 1203		
	5 43 17	-3 3A.A	5 42 24 -4 11.7		
	Δα: 75"	Δδ: 44.6'	5 43 39 -3 27.1		
	= 19.4mm.	= 43.4mm.			
A. 2513					
10	11 23 29	-60 31.2	-60 29A6		
= star	11 23 29	-60 31.2	-60 2960		
	11 23 29	-60 31.2	11 24 36 -61 2.6		
	Δα: 9A"	Δδ: 39.7'	11 23 1A -60 22.9		
	= 4.0mm.	= 36.5mm.			
8	11 23 45	-62 1A.0	-62 2019		
= I.C. 2472	11 23 46	-62 1A.0	-61 2350		
	11 23 46	-62 1A.0	11 22 34 -62 24.9	11 28 14	-62 50.8
	Δα: 110"	Δδ: 1A.2'	11 24 24 -62 6.7		
	= 14.3mm.	= 17.9mm.			
11	11 23 24	-59 24.1	-59 34A4		
= Nb.C. 3699	11 23 24	-59 24.1	-59 349A		
	11 23 24	-59 24.1	11 23 10 -59 27.3	11 27 56	-59 56.9
	Δα: 4A"	Δδ: A.2'	11 23 5A -59 19.1		
	= 6.9mm.	= 7.Amm.			

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1930phae.proj.2325M

A.4259

Nos.	α	δ	Comp. Star	Positions in 2000 α	Positions in 2000 δ
4	7 33 25	-57 15.6	-57 1263		
	7 33 20	-57 15.6	-57 1277		
star: cf. A 15035	~~7 33 25~~	~~-57 15.6~~	7 31 47 -57 32.6		
	Δα: 137"	Δδ: 2A.1"	7 34 4 -57 4.5		
	= 16.9 mm.	= 29.0 mm.			
6	7 41 40	-56 31.2	-56 1407		
	7 41 40	-56 31.2	-56 1425		
	7 41 40	-56 31.2	7 39 01 -56 37.0	7 43 44	-56 45.6
	Δα: 240"	Δδ: 19.4'	7 43 01 -56 17.6		
	= 33.0 mm	= 20.4 mm			
7	7 46 59	-55 59.4	-56 1425		
	7 46 59	-55 59.4	-55 1373		
0.8	7 46 59	-55 59.4	7 43 01 -56 17.6	7 49 15	-56 14.6
	Δα: 365"	Δδ: 36.A'	7 49 06 -55 40.A		
	= 50.A mm.	= 3A.0 mm.			
P	7 42 46	-57 54.3	-57 1300		
	7 42 46	-57 54.3	-57 1324		
56.9	7 42 46	-57 54.3	7 41 1 -57 59.0	7 44 46	-58 8.7 ✓
	Δα: 260"	Δδ: 15.1'	7 40 26 -57 44.4		
	= 35.1 mm	= 16.1 mm.			

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1930phae.proj.233PM

88 A.4342 Checked with plate - L.F.H.

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
2	9 57 5	-34 18.0	-34 6843		
	9 57 5	-34 18.0	-34 6336		
	9 57 5	-34 18.0	9 59 33 -34 23.5	10 1 25	-34 46.8
	Δα: 198"	Δδ: 11.7'	9 56 15 -34 11.8		
	= 41.4 mm.	= 10.7 mm.			
6	9 55 27	-33 27.5	-33 6054		
	9 55 27	-33 27.5	-32 6991		
	9 55 27	-33 27.5	9 54 16 -33 32.3	9 59 49	-33 55.9
	Δα: 224"	Δδ: 29.4'	9 57 50 -33 2.9		
	= 38.3 mm.	= 24.7 mm.			
7	9 54 16	-32 33.0	-32 2781		
	9 54 16	-32 33.0	-32 2787		
	9 54 16	-32 33.0	9 53 27 -32 47.4	9 58 39	-33 1.4
	Δα: 115"	Δδ: 39.9'	9 55 22 -32 7.5		
	= 23.3 mm	= 41.3 mm			
16	10 3 9	-33 48.1	-34 6343		
	10 3 10	-33 48.0	-33 6693		
	10 3 10	-33 48.0	9 59 33 -34 23.5	10 7 35	-34 17.2
	Δα: 301"	Δδ: 25.0'	10 4 34 -33 57.5		
	= 62.1 mm.	= 26.4 mm.			
18	10 2 14	-33 24.4	-33 6701		
= I.C. 2545	10 2 14	-33 24.4	-33 6683		
	10 2 14	-33 24.4	10 4 52 -33 31.8	10 6 38	-33 53.6
	Δα: 293"	Δδ: 18.6'	9 59 59 -33 13.2		
	= 74.5 mm	= 19.4 mm			

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A.4342

Nob.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
19	10 1 26	-33 6.7			
star	10 1 26	-33 6.6			
	10 1 26	-33 6.6			
22	10 5 25	-34 31.2	-34 6450		
	10 5 25	-34 31.2	-34 6517		
	10 5 25	-34 31.2	10 3 30 -34 45.6	10 9 48	-35 0.6
	Δα: 210"	Δδ: 26.9'	10 7 0 -34 14.7		
	= 46.3mm	= 27.3mm			
23	10 4 57	-34 24.7			
	10 4 57	-34 24.7			
	10 4 57	-34 24.7		10 9 21	-34 54.1
24	10 3 57	-34 26.2			
	10 3 57	-34 26.2			
	10 3 57	-34 26.2		10 8 19	-34 55.5
26	10 5 14	-33 12.1	-33 6743		
	10 5 14	-33 12.1	-32 7040		
	10 5 14	-33 12.1	10 7 49 -33 24.0	10 9 37	-33 40.1 1.3
	Δα: 244"	Δδ: 26.5'	10 3 45 -32 58.0		
	= 35.1mm	= 29.2mm			
27	10 5 0	-33 11.2			
	10 5 0	-33 11.3			
	10 5 0	-33 11.2		10 9 23	-33 40.0 4

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1930phae.proj.231PM

Nebs.	α	δ	Comp Stars	Position in 2000 α	Position in 2000 δ
2A	10 6 29	−33 19.9	−33 6743		
	10 6 29	−33 19.9	−32 7080		
	10 6 29	−33 19.9	10 7 49 −33 24.5′	10 10 55	−33 49.1
	Δα: 244″	Δδ: 26.5′	10 3 45 −32 56.0		
	= 55.1mm	= 29.4mm			
29	10 4 1	−33 4.1			
	10 4 1	−33 4.0			
	10 4 1	−33 4.0		10 8 26	−33 33.2
31	10 7 37	−31 58.4	−32 7105A		
	10 7 37	−31 58.4	−31 A032		
	10 ~~9 47~~ 7 37	−31 ~~34.0~~ 58.4	10 9 1 −32 32.3	10 12 6	−32 28.0
	Δα: 109″	Δδ: 50.6′	10 7 12 −31 41.7		
	= 23mm	= 51.7mm			
32	10 A 12	−34 14.6	−34 6517		
	10 A 12	−34 14.6	−33 6754		
	10 A 12	−34 14.6	10 7 0 −34 1A.7	10 12 36	−34 44.3
	Δα: 96.3″	Δδ: 17.3′	10 A 36 −34 1.4		
: I.C.2556	= 20.1mm	= 16.7mm			
33	10 8 18	−34 45.6	−34 6528		
	10 8 18	−34 45.6	−34 6544		
nebula?	10 ~~8~~ 8 ~~18~~ 0	−34 ~~26.0~~ 45.6	10 7 31 −34 50.2	10 12 42	−35 15.2
	Δα: 92″	Δδ: A.1″	10 9 3 −34 42.1		
	= 9.6mm	= 3.6			

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Neb.	α	δ	Comp Stars	Position in 2000 b) α	δ
34a	10 9 18	-34 22.1	-34 65 63		
	10 9 18	-34 22.1	-34 65 19	10 9 18	-34 21.8
49.1	10 9 ~~57~~ 18	-34 ~~13.8~~ 22.1	10 10 30 -34 26.1	10 9 18	-34 21.8
	Δα = 2'10"	Δδ = 17.4'	10 7 0 -34 17.7	10 13 42	-34 31.7
	= 43.4mm	= 9.5mm			
35	10 10 26	-34 54.8	-35 62 40		
	10 10 26	-34 54.8	-34 65 44		
33.2	10 ~~11~~ 10 ~~4~~ 26	-34 ~~34.3~~ 54.8	10 12 26 -35 8.7	10 14 51	-35 24.5
	Δα = 2'03"	Δδ = 26.6'	10 9 3 -34 42.1		
	= 51.2mm	= 20.4mm			
28.0	36 10 11 38	-34 ~~07~~ 58.0			
	two stars? 10 11 38	-34 ~~07~~ 58.0			
	10 ~~12~~ 11 38	-34 ~~37.1~~ 58.0		10 16 4	-35 27.8
37a	10 9 ~~55~~	-34 36.9	-34 65 44		
	10 9 55	-34 36.9	-34 65 63		
44.2	10 ~~10~~ 9 ~~42~~ 55	-34 ~~17.0~~ 36.9	10 9 3 -34 42.1	10 14 20	-35 6.6
	Δα = 87"	Δδ = 16.0'	10 10 30 -34 26.1		
	= 27.9mm	= 17.0mm			
37b	10 9 ~~55~~	-34 37.2			
	10 9 54	-34 37.2			
15.2	10 ~~10~~ 9 ~~43~~ 54	-34 ~~16.0~~ 37.2		10 14 19	-35 6.9
38	10 9 41	-34 35.2			
	10 9 41	-34 35.2			
	10 ~~10~~ 9 ~~43~~ 41	-34 ~~15.3~~ 35.2		10 14 5	-35 4.9

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Neb.	α	δ	Comp Stars	Position in 2000 α	Position in 2000 δ
37	10 10 25	-34 32.9	-34 6044		
	10 10 25	-34 32.9	-34 6063		
	10 10 ~~24~~ 25	-34 ~~12.6~~ 32.9	10 9 3 -34 42.1	10 14 50	-35 2.6
	Δα: 87"	Δδ: 16.0'	10 10 30 -34 26.1		
	: 27.9mm	: 17.2mm			
39	10 12 33	-34 16.6	C.D.M. -34 6063		
	10 12 33	-34 16.6	C.P.D -34 6097		
	10 12 33	-34 16.6	10 10 30 -34 26.1	10 16 59	-34 46.4
	Δα: 146"	Δδ: 12.0'	10 12 56 -34 14.1		
	: 29.7mm	: 14.9mm			
41	10 10 27	-33 56.4	C.P.D. -34 6097		
	10 10 27	-33 56.2	C.M. -33 6743		
	10 10 27	-33 56.3	10 12 56 -34 14.1	10 14 54	-34 25.9
	Δα: 309"	Δδ: 49.5'	10 7 49 -33 24.6		
	: 63.2mm	: 47.1mm			
44	10 18 50	-34 29.8	-34 6662		
	10 18 51	-34 29.8	-34 6675		
	10 18 50	-34 ~~1.6~~ 29.8	10 17 41 -34 41.2	10 23 18	-35 0.00
	Δα: 90"	Δδ: 16.0'	10 19 11 -34 25.2		
	: 19.0mm	: 13.3mm			
47 = I.C. 2570	10 16 57	-33 6.8	-33 6917		
	10 16 57	-33 6.8	-32 7247		
	10 ~~17 06~~ 16 57	~~-32~~ -33 ~~40.7~~ 6.8	10 18 32 -33 38.2	10 21 26	-33 36.8
	Δα: 182"	Δδ: 61.0'	10 15 30 -32 37.2		
	: 34.0mm	: 62.1mm			

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1936phae.proj.2322M

A.4342

Pl.	α	δ	Comp. Star	Position in 2000 α	Position in 2000 δ
91	10 18 7	-33 19.8			
	10 18 7	-33 19.8			
	~~10 18 7~~	~~-33 19.8~~			
	~~10 19 6~~	~~-32 59.1~~		10 22 37	-33 49.8
92	10 18 17	-33 13.4			
	10 18 17	-33 13.4			
	~~10 18 17~~	~~-33 13.4~~			
	~~10 19 16~~	~~-32 59.4~~		10 22 47	-33 43.4
4A	10 16 30	-32 21.3	-32 7247		
	10 16 30	-32 21.3	-32 7295		
	10 16 30	-32 21.3	10 15 30 -32 37.2	10 21 00	-32 51.5
	Δα = 16A"	Δδ = 24.9'	10 18 18 -32 12.3		
	= 33.5mm.	= 25.0mm.			
C	10 17 1	-32 3.2	-32 7295		
	10 17 1	-32 3.1	-31 A199		
	10 17 1	-32 3.2	10 18 18 -32 12.3	10 21 31	-32 33.4
	Δα = 11 2"	Δδ = 24.1'	10 16 26 -31 4A.2		
	= 23.7mm.	= 24.0mm.			
49	10 13 51	-33 1A.7	-33 6A37		
	10 13 51	-33 1A.7	-33 6A56		
2 STARS: CFA 15940	~~10 13 51~~	~~-33 1A.7~~	10 13 24 -33 27.7		
	Δα = 5A"	Δδ = 17.2'	10 14 22 -33 10.5		
	= 12.1mm.	= 17.2mm.			
50	~~10 18 36~~	~~-30 4A.7~~	-30 A394		
star	10 18 36	-30 4A.7	-30 A432		
	10 18 36	-30 4A.7	10 17 41 -31 0.9		
	Δα = 10.0"	Δδ = 4.0.1'	10 20 11 -30 20.8		
	= 33.9mm.	= 39.9mm.			

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94 A.4342

Neb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
52	10 20 34	-34 35.5	-34 6716		
	10 20 34	-34 35.5	-34 6675		
3 STARS : CF. A 15940	~~10 20 34~~	~~-34 35.5~~	10 22 22 -34 40.3		
	Δα: 191"	Δδ: 20.1'	10 19 11 -34 20.2		
	= 39.3 mm.	= 21.0 mm.			
55	10 22 3	-33 4P.2	-33 69P2		
	10 22 4	-33 4P.1	-33 6917	✓	✓
	10 22 4	-33 4P.2	10 23 19 -33 52.9	10 26 34	-34 18.4
	Δα: 247"	Δδ: 14.7'	10 1P 32 -33 3P.2		
	= 39.5 mm.	= 17.2 mm.			
56	10 23 40	-33 57.F	-33 6967		
	10 23 40	-33 57.F	-33 7024		
2 STARS: CF A 15940	~~10 23 40~~	~~-33 57.F~~	10 22 7 -34 3.5		
	Δα: 232"	Δδ: 29.9'	10 25 57 -33 32.6		
	= 40.1 mm.	= 31.5 mm.			
57	~~10 22 57~~	~~-33 1.0~~	-33 6971		
	10 22 57	-33 1.0	-32 7389		
star	10 22 57	-33 1.0	10 22 24 -33 30.P		
	Δα: 152"	Δδ: 37.2'	10 24 56 -32 53.6		
	= 33.4 mm.	= 36.3 mm.			
5P	10 22 41	-33 6.P			
	10 22 41	-33 6.P		✓	✓
	10 22 41	-33 6.P		10 27 11	-33 37.0
8	10 23 19	-32 5P.9			
	10 23 19	-32 5P.8			
	10 23 19	-32 5P.P		✓	✓ 4
				10 27 50	-33 29.0

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A.4342

Neb.	α	δ	Comp. Star	Position in 2000 α	Position in 2000 δ
59	10 23 3	-32 39.2	-32 73P9		
	10 23 3	-32 39.2	-32 735 1		
2 stars	~~10 23 3~~	~~-32 39.2~~	10 24 56 -32 53.6		
	Δα: 157"	Δδ: 45.7'	10 22 19 -32 79		
	= 31.7	= 47.4 mm.			
60	10 23 15	-32 46.4			
	10 23 15	-32 46.5		✓	✓
8.4.	10 23 15	-32 46.4		10 27 47	-33 17.0
61	10 23 17	-32 39.3			
	10 23 17	-32 39.3		✓	✓
	10 23 17	-32 39.3		10 27 49	-33 9.9
62	10 23 3	-32 33.8			
2 stars	10 23 3	-32 33.9			
	~~10 23 3~~	~~-32 33.8~~			
63	10 23 40	-32 49.6			
star ?	10 23 40	-32 49.6		✓	✓
	10 23 40	-32 49.6		10 28 12	-33 20.2
64	10 23 58	-32 11.6			
	10 23 57	-32 11.7			
	10 23 58	-32 11.6		✓ 10 28 30	✓ 3 -32 42.2
7.0.	65 10 24 13	-30 58.9	-30 A475		
	10 24 13	-30 58.9	-31 A303		
	10 24 13	-30 58.9	10 23 20 -30 44 5	✓ 10 28 45	✓ 5 -31 29.7
4	Δα: 158"	Δδ: 32.3'	10 25 58 -31 16.8		
9.0	= 32.7 mm.	= 34.1 mm.			

continued on p. 96

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1930phae.proj.233PM

 A.5102, no new nebulae

Neb.	α	δ	Comp. Stars	Position in 2000 α	Position in 2000 δ
7	10 27 51	-72 36.2	-72 9PO		
	10 27 51	-72 36.2	-71 1020		
two stars: cf. A14442	~~10 27 51~~	~~-72 36.2~~	10 2P 35 -72 505		
	Δα: 299″	Δδ: 47.4′	10 23 36 -72 3.1		
	= 21.6mm.	= 4P.4mm			
b	~~9 57 45~~	~~-72 6.5~~	-72 PP7		
	9 57 45	-72 6.5	-71 9001		
star	~~9 57 45~~	-72 6.5	9 57 36 -72 1P.6		
	Δα: 113″	Δδ: 2P.3′	9 59 29 -71 50.3		
	= 6.2mm.	= 29.2mm			

A. 6717

1	~~10 30 39~~	-71 22.7	-71 10PO		
two stars	10 30 39	-71 22.7	-71 1046		
	10 30 39	-71 22.7	10 34 9 -71 30.7		
	Δα: 25.1″	Δδ: 17.3′	10 29 5P -71 13.4		
	= 26.6mm	= 14.7mm			
2	10 57 32	-70 25.1	-70 1274		
	10 57 32	-70 25.1	-70 12P2		
	10 57 32	-70 25.1	10 56 2P -70 30.2	11 00 58	-70 57.5
	Δα: 9P″	Δδ: 9.0′	10 5P 6 -70 21.2		
	= P.1mm.	= 9.0mm			

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A.5-104

Neb.	α	δ	Comp. stars	Position in 2000 α	Position in 2000 δ
4	9 49 36	-72 11.8	-72 AF7		
	9 49 37	-72 11.A	-72 A5A		
	9 49 36	-72 11.A	9 51 36 -72 1A.6	9 51 1	-72 39.8
	Δα: 9.7.7"	Δδ: 10.2'	9 41 19 -72 A.4		
	= 74.4mm	= 13.4mm			
6 two stars	9 4A 42	-73 10.5	-73 65A		
	9 4A 42	-73 10.5	-72 A66		
	9 4A 42	-73 10.5	9 50 13 -73 44.0		
	Δα: 320"	Δδ: 63.4'	9 44 53 -72 40.6		
	= 16.9mm	= 64.3mm			
10	9 46 4	-74 7.7	-74 634		
	9 46 4	-74 7.6	-73 65A		
	9 46 4	-74 7.6	9 44 A -74 23.0	9 46 54	-74 35.6
	Δα: 365'	Δδ: 39.0'	9 50 13 -73 44.0		
	= 22.1mm	= 3A.9mm			
12	9 20 32	-74 25.9	-74 592		
	9 20 32	-74 26.1	-74 570		
two stars?	9 20 32	-74 26.0	9 26 5 -74 35.2	9 20 31	-74 51.6
	Δα: A45"	Δδ: 23.0'	9 12 0 -74 12.2		
	= 59.1mm	= 1A.1mm			
10	9 29 5	-72 30.9	-72 A26		
	9 29 5	-72 30.9	-72 A48		
5	9 29 5	-72 30.9	9 27 59 -72 31.1	9 29 53	-72 57.3
	Δα: 291"	Δδ: 4.0'	9 32 50 -72 27.1		
	= 72.0mm	= 4.8mm			

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1930phae.proj.2312PM

 A. 4342 continued from p. 95

Neb.	α	δ	Comp. Stars	Position in 2000 α	δ
g	10 23 42	-30 59.9	-30 A475		
	10 23 41	-30 59.A	-31 A303		
I.C. 2580	10 23 42	-30 59.A	10 23 20 -30 445	10 28 18	-31 30.2
	Δα: 15A"	Δδ: 32.3'	10 25 5A -31 16.A		
	= 32.7mm	= 34.1mm			
→					
66	10 22 34	-31 5'.A	[73] -34 6729	10 24 59	-34 45.5"
star	10. 22 34	-31 51.A	-34 6781	10 24 59	-34 45.6
	10 22 34	-31 51.A	10 23 27 -34 53.3	10 24 59	-34 45.6
	Δα: 30"	Δδ: 22.6'	10 26 49 -34 17.2		
	= 3mm.	= 23.6mm	Δα: 202" Δδ: 36.1'		
			= 43.9mm. = 33.4mm.		
69	10 26 23	-35 10.3	-35 649A		
	10 26 24	-35 10.3	-34 6729		
IN 3273	10 26 24	-35 10.3	10 27 44 -35 15.0	10 30 53	-35 40.8
	Δα: 25.7"	Δδ: 21.7'	10 23 27 -34 053		
	= 45.0mm	= 19.0mm			
75	10 26 17	-33 54.3	-34 67A1		
	10 26 17	-33 54.3	-33 7024		
	10 26 17	-33 54.3	10 26 49 -34 17.2	10 30 49	-34 24.7
	Δα: 50"	Δδ: 43.6"	10 25 59 -33 33.6		
	= 1A mm.	= 4A.1mm.			
76	10 26 11	-33 55.6			
	10 26 11	-33 55.6			
star?	~~10 26 11~~	~~-33 55.6~~			
yes					

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1936phae.proj.2322M

A.4342

Neb.	α	δ	Comp. stars	Position in 2000 α	δ
#1	10 24 34	-29 49.4	-29 P3P6		
	10 24 34	-29 49.4	-29 P370		
	10 24 34	-29 49.4	10 25 1P -29 59.P	10 29 11	-30 20.2
	Δα = P4"	Δδ = 16.8'	10 23 54 -29 43.0		
	= 17.2mm.	= 16.5mm.			
#2 two stars	~~10 1 10~~	~~-31 0.7~~	[67] -32 73P9	10 25 45	-32 9.6
	10 1 10	-31 0.7	-31 P2P7	10 25 46	-32 9.6
	10 1 10	-31 0.7	10 24 56 -32 53.6	10 25 46	-32 9.6
	Δα = 92"	Δδ = 35.5'	10 24 27 -31 46.7		
	= 19.5mm.	= 34.5mm.	Δα = 29" Δδ = 66.9'		
			= 3.2mm. = 69.8mm.		
#3	10 14 33	-30 3.6	-30 P329		
	10 14 32	-30 3.6	-29 P264		
	10 14 32	-30 3.6	10 13 19 -30 22.6	10 19 05	-30 33.6
	Δα: 101"	Δδ: 33.6'	10 10 0 -29 49.0		
	= 10.4mm.	= 35.7mm.			
#4	10 2 4	-31 33.1	-31 7939		
	10 2 4	-31 33.1	-31 7907		
	10 2 4	-31 33.1	10 1 16 -32 6.6	10 6 31	-32 2.3
	Δα: 61"	Δδ: 50.3'	10 2 17 -31 16.3		
	= 12.2mm.	= 51.0mm.			
#5	10 2 27	-31 3P.6			
	10 2 27	-31 3P.6			
	10 2 27	-31 3P.0		10 6 54	-32 7.2
#6	10 1 54	-31 31.9			
	10 1 54	-31 32.1			
	10 1 54	-31 32.0		10 6 21	-32 1.2

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1930phae.proj.232PM

100 A.4342

Neb.	α	δ	Comp. star	Position in 2000 α	Position in 2000 δ
87	10 P 2P	- 32 3P.P	-32 7116		
	10 P 2P	- 32 3P.7	-32 710P		
	10 P 2P	-32 3P.P	10 6 2 -33 4.7	10 12 56	-33 8.4
	Δα: 179"	Δδ: 32.4'	10 9 1 -32 323		
	= 3P mm.	= 32.1 mm.			
AP	10 1P 30	-32 27.0	-32 7310		
	10 1P 30	-32 26.9	-32 7295		
	10 1P 30	-32 27.0	10 19 9 -32 43.6	10 23 2	-32 57.4
	Δα: 51"	Δδ: 31.3'	10 1P 1P -32 12.3		
	= 9.3 mm	= 32.7 mm.			
90	10 14 9	-34 2P.7	-34 6662		
	10 14 10	-34 2P.7	-34 6597		
	10 14 10	-34 28.7	10 17 41 -34 41.2	10 18 36	-34 58.7
	Δα: 2P5"	Δδ: 27.1'	10 12 56 -34 14.1		
	= 59.3 mm.	= 30.4 mm.			
93	10 21 5	-33 5.P	-33 6971		
star	10 21 4	-33 5.P	-32 7310		
	~~10 21 4~~	~~-33 5.P~~	10 22 24 -33 30.9		
	Δα: 195"	Δδ: 47.3'	10 19 9 -32 43.6		
	= 39.P mm.	= 49.0 mm.			
95	~~10 22 12~~	~~-32 41.0~~	21 C.AD-32 70P0		
star	10 22 12	-32 41	C.D.M-31 7939	10 2 15	-32 22.6
	10 22 12	-32 41.0	10 3 45 -32 5P0	10 2 15	-32 22.6
	Δα: 190"	Δδ: 35.7'	10 1 16 -32 65	10 2 15	-32 22.6
	= 42.3 mm	= 34.P mm.			
			Δα: 149" Δδ: 51.5'		
			= 2P.3 mm = 4P.3 mm.		

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1996plate.proj.2.2PM

A.4342, 4407, 446F

Ref.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
96	10 21 15	-32 20.0			
	10 21 15	-32 20.0			
	10 21 15	-32 20.0		10 25 47	-32 50.4
97	10 13 29	-31 14.4	-31 P120		
	10 13 29	-31 14.3	-30 P366		
	10 13 29	-31 14.4	10 12 44 -31 21.F	10 17 58	-31 44.4
	Δα: 176"	Δδ: 16.9'	10 15 40 -31 4.9		
	= 3F.2mm	= 16.2mm			
A.4407					
3	12 42 49	-66 26.7	-66 1944		
	12 42 50	-66 26.F	-66 1465		
	12 42 50	-66 26.F	12 42 9 -66 34.9	12 48 54	-66 59.6
	Δα: 1P3"	Δδ: 16.3'	12 45 12 -66 1F.6		
	= 17.4mm	= 17.Pmm			
4	12 33 14	-67 55.1	-67 2032		
	12 33 14	-67 55.1	-67 2037		
	12 33 14	-67 55.1	12 33 54 -6P 2.3	12 39 10	-68 28.3
	Δα: 47"	Δδ: 2P.1'	12 34 41 -67 34.2		
	= 1.4mm	= 2F.7mm			
A.446F					
2	13 59 1F	-75 0.5	-75 92F		
	13 59 1F	-75 0.5	-74 1161		
	13 59 1F	-75 0.5	13 5F 38 -75 15.3	14 8 34	-75 29.3
	Δα: 673"	Δδ: 42.5'	14 9 43 -74 32.F		
	= 42.2mm	= 3P.4mm			
5	14 2 44	-74 51.3			
	14 2 44	-74 51.5			
	14 2 44	-74 51.5		14 12 2	-75 20.1

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1930phae.proj.2322pm

02 A.4476, 4537

Nebi.	α	δ	Comparstars	Positions in 2000 α	δ
3	14 35 52	-65 57.9	-65 2F45		
	14 35 53	-65 5F.0	-65 2F55		
two stars	14 35 52	-65 5F.0	14 35 49 -66 2.0		
	Δα: F3"	Δδ: 13.7'	14 37 12 -65 4F3		
	= 10.2mm.	= 13.1mm.			
A. 4537					
2	16 46 11	-7F 1F.3	-7F 1129		
	16 46 11	-7F 1F.3	-77 1255		
	16 46 11	-7F 1F.3	16 43 34 -7F 34.6	17 00 58	-79 29.1
	Δα: 290"	Δδ: 39.0'	16 4F 24 -77 55.6		
	= 22.0mm.	= 30.9mm.			
3	16 12 7	-76 4F.5	-76 110.7		
	16 12 F	-76 4F.5	-76 11.5F		
	16 12 8	-76 4F.5	16 9 46 -76 55.9	16 24 41	-77 3.7
	Δα: 252"	Δδ: 22.1'	16 13 5F. -76 33.F		
	= 12.1mm	= 21.5mm			
4	16 41 F	-76 22.5	-76 1179		
	16 41 F	-76 22.6	-76 117F		
	16 41 F	-76 22.6	16 41 29 -76 40.F	16 54 55	-76 34.2
	Δα: 1F"	Δδ: 2F.0'	16 41 11 -76 12.F		
	= 3.Fmm.	= 27.6mm			
A.3049					
13	9 36 3	-69 3F.0	-69 109F		
	9 36 2	-69 37.9	-69 1021		
	9 36 1	-69 380	9 3F 0 -69 49.F	9 37 38	-70 4.8
	Δα: 404"	Δδ: 17.9'	9 31 16 -69 31.9		
	= 40.8mm	= 17.Fmm.			

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1930phae.proj.232pm

A. 5049, 5202

Feb.	α	δ	Comp. stars	Positions in 2000 α	δ
7	9 11 17	-6F 7.5"	-6F 907		
	9 11 17	-6F 7.5"	-67 1053		
	9 11 17	-6F 7.5"	9 10 4F -6F 20.0	9 12 33	-68 32.3
	Δα: 147"	Δδ: 27.9'	9 13 15 -67 52.1		
	= 11.0mm.	= 29.3mm.			
11	10 2 43	-67 15.2	-67 1191		
	10 2 43	-67 15.2	-66 1176		
	10 2 43	-67 15.2	10 1 5F -67 305	10 5 11	-67 45.2
	Δα: 93"	Δδ: 2F.4'	10 3 31 -67 2.1		
	= 11.Fmm.	= 27.7mm			
10	9 56 19	-67 55.9	-67 1171		
star 1 fm	9 56 19	-67 55.9	-67 11F0		
	9 56 19	-67 55.9	9 55 22 -6F 3.2		
	Δα: 153"	Δδ: 20.5'	9 57 55 -67 42.7		
	= 16.1mm.	= 19.6mm.			
A. 5202					
6	10 4F 14	-65 52.5"	-65 15-2F		
	10 4F 14	-65 52.5"	-65 15-65"		
	10 4F 14	-65 52.5"	10 47 4 -65 5F.3	10 51 54	-66 24.5
	Δα: 32F"	Δδ: 22.3'	10 52 32 -65 36.0		
	= 33.2mm.	= 23.0mm.			
11	10 37 22	-67 32.3	-67 1411		
	10 37 22	-67 32.3	-67 1459		
	10 37 22	-67 32.3	10 33 26 -67 43.3	10 40 26	-68 3.5
	Δα: 329"	Δδ: 21.0'	10 3F 55 -67 223		
	= 29.7mm	= 24.0mm			

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1930phae.proj.2334M

 A-5202, 6 POF

Feb.	α	δ	Comp. stars	Positions in 2000 α	δ
15	10 54 25	-69 24.3	-69 1436		
	10 54 25	-69 24.3	-69 1475		
	10 54 25	-69 24.3	10 51 10 -69 31.2	10 57 53	-70 0.3
	Δα: 5.76″	Δδ: 7.9′	11 0 46 -69 23.3		
	= 30.7 mm.	= 8.9 mm.			
24	11 5 29	-69 26.8	-69 2001		
	11 5 29	-69 26.8	-69 1475		
	11 5 29	-69 26.8	11 10 57 -69 48.9	11 9 13	-69 59.6 = 7
	Δα: 6.11″	Δδ: 25.6′	11 0 46 -69 23.3		
	= 33.3 mm.	= 27.0 mm.			
25	11 5 42	-69 25.2			
	11 5 42	-69 25.2			
	11 5 42	-69 25.2		11 9 26	-69 58.0
4.6 POF					
a	17 22 35	-19 51.0	-19 4640		
	17 22 34	-19 51.0	-19 4640		
	17 22 34	-19 51.0	17 24 40 -19 29.3		
	Δα: 1.52″	Δδ: 21.3′	17 22 13 -19 55.6		
	= 36.2 mm.	= 19.1 mm.			
A.5453					
15	17 10 50	-65 3.5	-65 3434		
	17 10 50	-65 3.5	-65 3429		
Measured off by H.L.	17 10 50	-65 3.5	17 11 12 -65 8.2		
	Δα: 50″	Δδ: 6.3′	17 10 22 -65 1.9		
	= 5 mm.	= 6.3 mm.			

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1936phae.proj.23255M

A.5349, 5376, 5453

No.	α	δ	Comp. star	Positions in 2000 α	Positions in 2000 δ
25	11 60 52	-64 57.2	-69 1632		
	11 60 52	-64 57.2	-64 1614		
	11 60 52	-64 57.2	11 61 6 -69 14.6	12 6 00	-69 30.8
	Δα = 10″	Δδ = 46.4′	11 60 56 -64 34.2		
	= 2.5 mm.	= 40.6 mm.			
A.5376					
2	15 2 12	-64 17.6	-64 3105		
	15 2 11	-64 17.6	-63 3524		
= N.b.C. 5844	15 2 12	-64 17.6	15 1 51 -64 32.7	15 10 36	-64 41.2
	Δα = 57″	Δδ = 30.3′	15 2 42 -64 2.4		
	= 7.8 mm	= 30.2 mm			
A.5453					
1	16 2A 10	-60 4.2	-60 6577		
	16 2A 10	-60 4.2	-59 67AA		
	16 2A 10	-60 4.2	16 29 2A -60 10.2	16 36 54	-60 17.0
	Δα = 15A″	Δδ = 15.6′	16 30 6 -59 54.6		
	= 18.9 mm.	= 17.4 mm.			
2	16 32 1	-60 11.A	-60 6601		
	16 32 1	-60 11.9	-60 6611		
	16 32 1	-60 11.A	16 31 40 -60 26.3	16 40 45	-60 24.6
	Δα = 9A″	Δδ = 22.4′	16 33 1A -60 3.9		
	= 10.A mm	= 23.7 mm			
3	16 53 A	-60 39.9	-60 66A1		
	16 53 A	-60 39.A	-60 66AA		
	16 53 A	-60 39.A	16 52 51 -60 4A.2		
	Δα = 31″	Δδ = 18.4′	16 53 22 -60 29.A		
	= 3.9 mm.	= 1A.1 mm			

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106 A.5453

Positions in 9000

1926	α	δ	Comp. Stars	α	δ
4	17 0 43	-60 7.0	-60 6719		
	17 0 43	-60 7.0	-60 6711		
not a nd. H. S.	17 0 43	-60 7.0	17 01 5.6 -60 13.4		
	Δα = 96"	Δδ = 11.2'	17 0 20 -60 2.2		
	= 11.8 mm.	= 12.0 mm			
✓ 5	17 16 42	-60 25.5	-60 6A07		
	17 16 42	-60 25.6	-60 6F0A		
center of plate not accepted by H. S.	17 16 42	-60 25.6	17 16 30 -60 33.9		
	Δα = 12"	Δδ = 11.6'	17 16 42 -60 22.1		
	= 2.0 mm	= 11.5 mm			
✓ 9	16 39 46	-61 20.9	-61 5PA5		
	16 39 47	-61 20.9	-61 5793		
	16 39 46	-61 20.9	16 39 39 -61 23.6	16 48 46	-61 325
	Δα = 142"	Δδ = 9.5'	16 41 51 -61 141		
	= 15.6 mm	= 10.4 mm			
✓ 10	16 2A 34	-62 15.6	-62 5399		
not a sech H.S.	16 2A 34	-62 15.6	-61 5744		
	16 2A 34	-62 15.6	16 29 5.2 -62 31.1		
a on 3 plates	Δα = 110"	Δδ = 29.4'	16 2A 2 -62 1.7		
	= 15.3 mm	= 2A.2 mm			
12	16 44 41	-62 49.A	-63 4626		
	16 44 41	-62 49.7	-62 545A		
	16 44 41	-62 49.A	16 44 12 -63 4.6	16 53 49	-63.1.6
	Δα = 76"	Δδ = 31.7'	16 45 2A -62 32.3		
	= A.0 mm	= 31.6 mm			

not in grouped as in A.5451 by C.A.B. see p. 111

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A.5453 (many measured found afterwards to be Bailey's by D.M.W. - C.C. of Bailey's with D.M.W.) 107

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
18	16 3A 55	-59 5A.1	-59 6A22		
Bailey's	16 3A 55	-59 5A.1	-59 6A29		
	16 3A 55	-59 5A.1	16 37 5A -60 1.A	16 47 35	-60 9.7
	Δα: A2"	Δδ: 7.0'	16 39 20 -59 54.A		
	= 10mm	= 7.6mm			
19	16 42 12	-60 37.A	-60 664A		
Bailey's	16 42 12	-60 37.A	-60 665A		
	16 42 12	-60 37.A	16 41 10 -60 41.6	16 51 00	-60 49.0
	Δα: 96"	Δδ: 1A.3'	16 42 46 -60 23.3		
	= 11.1mm	= 1A.Amm			
20	16 41 53	-61 3A.6	-61 5'795"		
measured by Bailey	16 41 52	-61 3A.9	-61 5'7A5"		
	16 41 52	-61 3A.6	16 43 5" -61 40.2	16 50 52	-61 49.8
	Δα: 206"	Δδ: 16.6'	16 39 39 -61 23.6		
	= 2316mm	= 1515mm			
21	16 49 49	-61 7.9	-61 5A20		
Bailey's	16 49 49	-61 7.9	-60 6697		
	16 49 49	-61 7.9	16 51 36 -61 10.1	16 58 53	-61 17.9
	Δα: 175"	Δδ: 1A.2'	16 4A 41 -60 56.9		
	= 21mm	= 1A.2mm			
22	16 50 12	-60 3.4	-60 66A2		
Bailey's	16 50 12	-60 3.4	-59 6A71		
	16 50 12	-60 3.4	16 51 10 -60 10.0	16 59 4	-60 13.4
	Δα: 101"	Δδ: 21.2'	16 49 34 -59 53.A		
	= 12.1mm	= 21.7mm			

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108 A.O.453

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
23	17 9 30	−60 1A.0	−60 6705		
	17 9 30	−60 1A.0	−60 6763		
Bailey	17 9 30	−60 1A.0	17 9 1A −60 20.4	17 18 26	−60 25.2
	Δα: 23″	Δδ: 12.6′	17 9 41 −60 7.A		
	: 3.Amm.	: 12.5mm.			
24	17 11 6	−60 3.2	−60 6763		
	17 11 6	−60 3.2	−59 6967		
Bailey	17 11 6	−60 3.2	17 9 41 −60 7.A	17 20 2	−60 10.4
	Δα: 121″	Δδ: 20.2′	17 11 42 −59 47.6		
	: 17	: 1A2.mm.			
25	17 14 29	−60 24.A	−60 6793		
	17 14 29	−60 24.9	−60 6A01		
Bailey	17 14 29	−60 24.A	17 14 29 −60 2A6	17 23 25	−60 31.6
	Δα: 59″	Δδ: 9.1′	17 15 2A −60 1A.9		
	: A1mm.	: A4mm.			
26 is Bailey					
27	17 4 55	−60 35.A	−60 6728		
	17 4 55	−60 35.A	−60 6722		
	17 4 33	−60 35.A	17 5 40 −60 47.3	17 13 51	−60 43.8
	Δα: 190″	Δδ: 19.1′	17 2 30 −60 2A.2		
	: 21.Amm.	: 10.8mm.			
H.N. 1A37					
4	17 5 3	−60 38.5			
	17 5 3	−60 38.5	not a neb. H.S		
	17 5 3	−60 38.5			

(Bailey: 17 4 41.3 −60 4.9)

Two of the Bailey comparisons are doubtful in this area only

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4.5453

Nb.	α	δ	Comp. star	Positions 1 2000 α	δ
29	17 6 3	-61 15.1	-61 5 F 5.6		
	17 6 5	-61 15.1	-61 5 F 5.2		
Bailey	17 6 5	-61 15.1	17 7 27 -61 1F.4	17 15 13	-61 23.1
5.2	Δα = 135.0"	Δδ = 16.1'	17 5 12 -61 2.3		
	= 10.1 mm	= 17.4 mm			
30	17 6 33	-61 1F.2			
Bailey	17 6 33	-61 1A.2			
0.4	17 6 33	-61 18.2		17 15 41	-61 26.2
31	17 1 3	-61 47.1	-61 5 F 37		
	17 1 3	-61 47.1	-61 5 F 44		
Bailey	17 1 3	-61 47.1	16 59 12 -62 0.2	17 10 7	-61 55.9
H.N 1A 36	Δα = 150.0"	Δδ: 22.5'	17 1 42 -61 37.7		
1.6	= 1A.8 mm	= 21.9 mm			
32	17 1A A	-61 5 5.3	-62 5 5 A1		
	17 1A A	-61 55.3	-61 5 42.9		
Bailey	17 1A A	-61 05.3	17 17 26 -62 1.7	17 27 16	-62 1.7
	Δα: 39"	Δδ: 08.6'	17 1A 0 -61 5 3.1		
3.8	= 6 mm	= A.1			
33	17 19 54	-62 22.0	-62 56 00		
	17 19 54	-62 21.9	-62 5 0 F 3		
Bailey	17 19 54	-62 22.0	17 20 4 -62 20.7	17 24 10	-62 28.8
	Δα: 115.0"	Δδ: 09.1'	17 1A 9 -62 16.6		
	= 12.1 mm	= 10.4 mm			
Bailey? 34	17 20 32	-62 25.5			
	19 20 32	-62 25.6			
	17 20 32	-62 25.6		17 29 52	-62 31.6

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 A.5106, 13471 (C.C. by D.M.W.)

Neb.	α	δ	Comp. Klein	Position m 200 α	Position m 200 δ
2	9 22 7	-71 9.7	-71 822		
	9 22 8	-71 9.8	-70 888		
	9 22 8	-71 9.8	9 22 31 -71 22.7	9 23 6	-71 35.4
	Δα = 21"	Δδ = 24.3'	9 22 10 -70 58.4		
	= 1.8 mm	= 24.4 mm			
13471					
Itzan N.G.C. + I.C					
3	16 3 5	-33 43.0	-33 10943		
	16 3 5	-33 43.8	-33 10976		
	16 3 5	-33 43.0	16 1 52 -33 46.2	16 9 30	-33 59.4
	Δα = 164"	Δδ = 21.0'	16 4 36 -33 25.2		
	= 34.9 mm	= 20.2 mm			
4	15 58 36	-33 14.9	-33 10901		
	15 58 36	-33 14.9	-33 10810		
	15 58 36	-33 14.9	15 57 29 -33 34.8	16 4 59	-33 32.1
	Δα = 78"	Δδ = 26.6'	15 58 47 -33 8.2		
	= 16.2 mm	= 27.3 mm			
5	15 58 23	-32 34.3	-32 11399		
	15 58 23	-32 34.3	-32 11336		
	15 58 23	-32 34.3	15 57 57 -32 37.2	16 4 44	-32 51.1
	Δα: 253"	Δδ = 13.4'	15 54 44 -32 23.8		
	= 54.0 mm	= 12.8 mm			
6	15 57 1	-32 35.2			
	15 57 1	-32 35.2			
	15 57 1	-32 35.2		16 3 21	-32 52.4

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A. 13471, 12490+ (C.C. by D.M.W.) 5°403 cont. from p. 106

Nebr.	α	δ	Comp. Stars	Positions in 2000 α	δ
7	15 54 26	-35 25.5	-35° 10650		
	15 54 27	-35 25.5'	-35 10679		
	15 54 26	-35 25.5	15 54 1 -35 42.4	16 00 54	-35 43.1
	Δα: 136"	Δδ: 37.5'	15 56 12 -35 10.9		
	= 27.7mm	= 38.0mm			
8	15 55 39	-35 59.6	-36 6924		
	15 55 39	-35 59.6	-35 10650		
	15 55 39	-35 59.6	15 56 59 -36 8.1	16 2 8	-36 17.2
	Δα: 178"	Δδ: 19.7'	15 54 1 -35 42.4		
	= 36.2mm	= 19.9mm			
A. 12490					
not a neb H.S.	18 24 35	-30 41.3	-30 15°810		
	18 24 35	-30 41.3	-30 15773		
	18 24 35	-30 41.3	18 26 1 -30 5°5.7		
	Δα: 102"	Δδ: 15.2'	18 24 19 -30 40.5		
	= 21.9mm	= 10.0mm			
A. 11231 (C.C. by D.M.W.)					
	18 52 22	-39 27.2	-39 8232		
	18 52 22	-39 27.1	-39 8246		
	18 52 22	-39 27.2	18 52 0 -39 42.8	18 59 16	-39 19.6
	Δα: 127"	Δδ: 25.5'	18 54 7 -39 17.3		
	= 20.3mm	= 27.7mm			
A. 5403 cont. from p. 106					
13	16 48 45	-62 33.4	-62 5745		
	16 48 45	-62 33.4	-62 5479		
	16 48 45	-62 33.4	16 45 28 -62 32.8	16 57 57	-62 43.8
	Δα: 305"	Δδ: 7.7'	16 50 33 -62 24.6		
	= 55.1mm	= 8.6mm			

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1930phae.proj.2321M

112 A. 10061, P924 (C.C. by D.M.W.)

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
1	1P 56 0	−36 32.3	−36 13295		
	1P 56 0	−36 32.2	−36 13296		
	1P 56 0	−36 32.2	1P 55 27 −36 34.1	19 2 43	−36 24.2
	Δα: 39″	Δδ: 18.2′	1P 56 7 −36 15.9		
	= 10 mm	= 18.7 mm			
2	1P 46 27	−3P 10.1	−3P 13149		
	1P 46 27	−3P 10.1	−3P 13172		
two stars - S.F.M	1P 46 27	−3P 10.8′	1P 44 42 −3P 24.6		
	Δα: 123″	Δδ: 22.1′	1P 46 45 −38 1.1		
	= 21.1 mm	= 24.3 mm			
A.P924					
1.	1P 2 0	−15 3.1	−15 4P33		
Description by H.S.	1P 2 0	−15 3.1	−15 4P22		
on card catalogue of	1P 2 0	−15 3.1	1P 3 25 −15 20.5	18 7 43	~~−15~~ 59.9 −15 2.8
D.M.W. says "probably	Δα: 101″	Δδ: 20.1′	1P 1 44 −15 0.4		
two stars"	= 25.2 mm	= 19.6 mm			
2	1P 4 13	−15 35.4	−15 4P31		
	1P 4 12	−15 35.4	−15 4P33		
	1P 4 12	−15 35.4	1P 5 50 −15 43.1	18 9 55	−15 34.8
	Δα: 145″	Δδ: 23.3′	1P 3 25 −15 20.5		
	= 35 mm	= 22.1 mm			
3	1P 4 24	−14 13.3	−14 4918		
H.S. on C.C. of	1P 4 24	−14 13.3	−14 4904		
D.M.W. "Prob. 2	1P 4 24	−14 13.3	1P 5 32 −14 27.0	18 10 6	−14 12.7
stars - not to be	Δα: 125″	Δδ: 26.3′	1P 3 27 −14 0.7		
treated seriously"	= 30.1 mm	= 26.1 mm			

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A. 7924, 7426 (partly c.c. by D.M.W.)

Nob.	α	δ	Comp. plates	Positions in 2000 α	Positions in 2000 δ
4	18 7 19	-14 16.7	-14 4918		
	18 7 19	-14 16.7	-14 4940		
4.2	18 7 19	-14 16.7	18 5 32 -14 27.0	18 13 00	-14 15.7
	Δα: 149″	Δδ: 14.5′	18 4 1 -14 12.5		
	= 36.2mm.	= 14.7mm.			
A. 7426					
1	18 34 22	-49 50.0	-50 1822		
	18 34 22	-49 49.9	-49 11676		
	18 34 22	-49 50.0	18 39 5 -50 11.4	18 42 4	-49 45.2
	Δα: 501″	Δδ: 39.7′	18 30 44 -49 32.1		
	= 83.2mm	= 36.3mm			
3	18 42 35	-47 35.4	-47 9073		
	18 42 35	-47 35.3	-46 9426		
	18 42 35	-47 35.4	18 43 9 -47 53.6	18 50 5	-47 29.0
59.9	Δα: 117″	Δδ: 79.3′	18 41 12 -46 34.3		
9.81	= 23.7mm	= 79.9mm			
4	18 44 41	-46 54.2	-47 9096		
	18 44 40	-46 54.2	-46 9426		
	18 44 40	-46 54.2	18 46 33 -47 23.6	18 52 6	-46 47.8
4.8	Δα: 321″	Δδ: 49.5′	18 41 12 -46 34.3		
	= 57.7mm	= 49.0mm			
5	18 43 32	-45 53.7	-45 9424		
	18 43 30	-45 53.8	-45 9473		
	18 43 31	-45 53.8	18 44 8 -45 53.3	18 50 52	-45 47.4
2.7	Δα: 157″	Δδ: 36.1′	18 41 31 -45 22.2		
	= 28.6mm	= 35.7mm.			

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114 A.7426

Neb.	α	δ	Comp. Stars	Positions 1930.0 α	δ
c	1P 35 3P	-4P 49.2	-4P 9924		
	1P 35 3P	-4P 49.3	-4P 9935		
	1P 35 3P	-4P 49.2	1P 35 30 -4P 55.2	18 43 14	-48 44.0
	Δα: 93"	Δδ: 33.3'	1P 37 3 -4P 21.9		
	= 23.9mm	= 34.7mm			
b	1P 3P 25	-49 51.5	-50 10P22		
	1P 3P 25	-49 51.5	-49 10737		
	1P 3P 25	-49 51.5	1P 39 5 -50 11.8	18 46 7	-49 45.9
	Δα: 27"	Δδ: 27.7'	1P 39 32 -49 44.1		
	= 3.0mm	= 28.7mm			
2	1P 42 03	-49 35.0	-49 10737		
	1P 42 03	-49 35.0	-49 10724		
	1P 42 3	-49 35.0	1P 39 32 -49 44.1	18 49 44	-49 28.6
	Δα: 457"	Δδ: 39.9'	1P 47 9 -49 4.2		
	= 71.7mm	= 43.6mm			
d	1P 41 06	-4P 37.4	-49 10719		
	1P 41 06	-4P 37.4	-4P 9961		
	1P 41 6	-4P 37.4	1P 37 25 -49 5.7	18 48 46	-48 31.4
	Δα: 312"	Δδ: 37.2'	1P 42 37 -4P 2P.5		
	= 51.9mm	= 38.4mm			
17	1P 52 39	-49 6.0	-49 10799		
	1P 52 39	-49 5.9	-4P 10014		
	1P 52 39	-49 6.0	1P 49 55 -49 8.8	19 00 18	-48 58.0
	Δα: 191"	Δδ: 43.7'	1P 53 6 -4P 25.1		
	= 31.1mm	= 44.5mm			

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A. 7426

Neb.	α	δ	Comparisons	Positions 1950 α	Positions 1950 δ
18	18 51 14	-48 42.0			
	18 51 14	-48 42.0			
	18 51 14	-48 42.0		18 58 49	-48 34.8
f	18 50 41	-49 17.1	-49 10816		
	18 50 41	-49 17.1	-49 10799		
	18 50 41	-49 17.1	18 52 19 -49 24.3	18 58 20	-49 9.5
	Δα: 144″	Δδ: 15.5′	18 49 55 -49 A.P		
	= 24.0 mm	= 15.3 mm			
15	18 54 30	-49 29.1	-49 10P44		
	18 54 30	-49 29.2	-49 10P16		
	18 54 30	-49 29.2	18 55 0 -49 32.2	19 2 9	-49 21.2
	Δα: 341″	Δδ: 7.9′	18 52 19 -49 24.3		
	= 55.8 mm	= 4.0 mm			
14	18 57 36	-49 23.1			
	18 57 36	-49 23.2			
	18 57 36	-49 23.2		19 5 15	-49 14.8
12	19 2 31	-48 28.1	CD.M. -48 12916		
	19 2 31	-48 28.3	C.P.D -48 10076		
	19 2 31	-48 28.2	19 0 35 -48 31.3	19 10 4	-48 19.4
	Δα: 168″	Δδ: 17.0′	19 3 23 -48 14.3		
	= 40.1 mm	= 11.9 mm			

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Positions in 2000

Neb.	α	δ	Comp. stars	α	δ
9	19 1 51	-47 34.6	-47 9199		
	19 1 51	-47 34.6	-46 9617		
	19 1 51	-47 34.6	19 2 25 -47 40.4	19 9 29	-47 25.6
	Δα: 142"	Δδ: 57.2'	18 59 57 -46 43.2		
	= 41.2 mm.	= 58.7			
8	19 6 58	-46 26.6	-46 9658		
	19 6 58	-46 26.6	-46 9647		
	19 6 58	-46 26.6	19 7 2 -46 41.2	19 14 20	-46 17.0
	Δα: 100"	Δδ: 22.6'	19 5 22 -46 18.6		
	= 24.7 mm	= 23.8 mm			
7	19 0 57	-46 31.8	-46 9617		
	19 0 57	-46 31.8	-46 9647		
	19 0 57	-46 31.8	18 59 57 -46 43.2	19 8 20	-46 23.0
	Δα: 325"	Δδ: 24.6'	19 5 22 -46 18.6		
	= 48.9 mm.	= 23.8 mm.			
6	18 55 50	-45 27.2	-45 9589		
	18 55 50	-45 27.2	-45 9575		
	18 55 50	-45 27.2	18 56 18 -45 50.2	19 3 9	-45 19.0
	Δα: 132"	Δδ: 34.4'	18 54 6 -45 15.8		
	= 15.0 mm	= 36.0 mm.			
9	19 2 23	-50 09.2	-49 10289		
	19 2 23	-50 09.3	-49 10244		
	19 2 23	-50 9.2	19 5 13 -49 48.6	19 10 7	-50 0.0
	Δα: 433"	Δδ: 16.4'	18 58 0 -49 32.2		
	= 71.7 mm.	= 18.5 mm			

Completed

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1936phae.proj.2328M

Neb.	α	δ	Comp. Stars

000

5.6

7.0

13.0

9.0

0.0

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"✓" indicates positions
clicked for
Menzel-type errors

R.P.

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Bk 2 - pp 68 - 88
p. 60 (+20°)

p. 96 on (less a few
on pp. 187 – 195)

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120 A.5-45P (C.C. by D.M.W.)

Mag		α	δ	Comp. Stars	Positions in 2000 α	δ
b		17 31 3P	-63 19.9	-63 4131		
		19 31 3P	-63 19.9	-63 4132		
		17 31 3P	-63 19.9	17 31 2 -63 42.2	17 41 10	-63 24.3
		Δα: 46"	Δδ: 27.4'	17 31 4P -63 14.P		
		: 3.2mm	: 28.0mm			
g		17 45 33	-60 53.0	-60 6959		
		17 45 33	-60 52.9	-60 6971		
		17 45 33	-60 53.0	17 43 53 -60 55.2	17 54 37	-60 55.0
		Δα: 340"	Δδ: 15.3'	17 49 33 -60 39.9		
		: 41.6mm	: 15.8mm			
2		1P 6 56	-64 50.4	-65 3640		
		1P 6 56	-64 50.5	-64 3P49		
		1P 6 56	-64 50.4	1P 4 3P -65 13.2	18 16 44	-64 49.2
		Δα: 120"	Δδ: 40.7'	1P 6 3P -64 32.5		
		: 15.2mm	: 40.1mm			
7		17 52 P	-63 36.2	-63 4261		
		17 52 P	-63 36.2	-63 41PP		
		17 52 P	-63 36.2	17 53 16 -63 43.P	18 1 44	-63 37.4
		Δα: 388"	Δδ: 23.5'	17 4P 4P -63 20.3		
		: 43.2mm	: 24.2mm			
P		1P 5 24	-63 24.1	-63 4336		
		1P 5 24	-63 24.1	-63 4343		
		1P 5 24	-63 24.1	1P 5 1 -63 43.6	18 15 00	-63 23.3
		Δα: 71"	Δδ: 38.5'	1P 6 12 -63 5.1		
		: 12.6mm	: 39.2mm			

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1999phice.proj:2:2@VLA

Nr.	α	δ	Comp. Stars	Positions in 2000 α	δ
10	17 51 56	-63 10.5	-63 41FF		
	17 51 57	-63 10.5	-63 42FF		
	17 51 56	-63 10.5	17 4F 4F -63 20.3	18 1 32	-63 11.7
	Δα = 375"	Δδ: 17.8'	17 54 3 -63 2.5		
	: 35.9	: 17.6 mm			
17	18 13 1	-61 54.F	-62 5F53		
	18 13 1	-61 54.7	-61 6137		
	18 13 1	-61 54.8	18 15 50 -62 33.0	18 22 13	-61 52.8
	Δα: 210"	Δδ: 50.4'	18 12 20 -61 42.6		
	: 19.8 mm	: 53.1 mm			
21	17 52 5	-60 16.7	-61 6971		
	17 52 5	-60 16.7	-60 69F1		
	17 52 5	-60 16.7	17 49 33 -60 39.9	18 1 9	-60 17.9
	Δα: 291"	Δδ: 32.6'	17 53 24 -60 7.3		
	: 28.9 mm	: 32.0 mm			
22	17 35 27	-60 55.6	-61 602F		
	17 35 26	-60 55.6	-60 6904		
	17 35 26	-60 55.6	17 37 19 -61 2.6	17 44 30	-60 57.6
	Δα: 334"	Δδ: 42.2'	17 31 45 -60 20.4		
	: 50.3 mm	: 38.9 mm			

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1930phae.proj.2325M

A 5459 (partly C.C. by D.M.W.)

Ref.	α	δ	Comparisons	Positions in 2000 α	Positions in 2000 δ
c	18 9 35	-61 30.6	-62 6134		
	18 9 35	-61 30.6	-61 6124		
	18 9 35	-61 30.6	18 11 37 -61 52.8	18 19 7	-61 29.0
	Δα: 149″	Δδ: 38.2′	18 9 10 -61 14.6		
	= 19.3mm	= 38.0mm			
f	~~17 59 31~~	~~-60 1.3~~	-60 7006		
	17 59 31	-60 1.4	-59 7224		
	~~17 59 31~~	~~-60 1.4~~	18 1 37 -60 7.5		
	~~Δα: 149″~~	~~Δδ: 17.1′~~	17 59 8 -59 50.4		
	~~= 14.2mm~~	~~= 18.1mm~~			
1	17 59 23	-65 5.4	-65 3615		
	17 59 22	-65 5.3	-64 3796		
	17 59 22	-65 5.4	18 0 40 -65 14.0	18 9 22	-65 5.4
	Δα: 160″	Δδ: 40.6′	17 58 0 -64 33.4		
	= 20.2mm	= 39.4mm			
9	18 16 17	-63 24.0	-63 4418		
	18 16 19	-63 23.9	-63 4400		
	18 16 17	-63 24.0	18 19 12 -63 44.6	18 25 53	-63 21.6
	Δα: 232″	Δδ: 29.6′	18 15 20 -63 10.0		
	= 26.0mm	= 29.8mm			
6	18 21 41	-61 25.7	-61 6164		
	18 21 41	-61 25.8	-61 6161		
			18 21 47 -61 42.7		
	Δα: 28″	Δδ: 23.0′	18 21 19 -61 19.7		
	= 3.2mm	= 23.1mm			

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1930bhae.proj.232FM

A-5459

No	α	δ	Comp. Stars	Positions in 2000
7	18 13 1	-62 0	-62 5853	
	18 13 1	-61 59	-62 6134	
			18 15 50 -62 33.0	
	Δα: 253"	Δδ: 40.2'	18 11 37 -61 52.8	
	= 30.3 mm	= 40.2 mm		
10	18 25 23	-62 7.8	-62 5891	
	18 25 23	-62 7.8	-61 6164	
			18 20 49 -62 10.5	
	Δα: 242"	Δδ: 32.8'	18 21 47 -61 42.7	
	= 29.9 mm	= 33.5 mm		
11	18 34 2	-61 42.3	-61 6221	
	18 34 2	-61 42.3	-61 6117	
	18 34 2	-61 42.3	18 34 27 -61 54.1	18 43 14 -61 37.8
	Δα: 83"	Δδ: 21.5'	18 33 4 -61 32.6	
	= 8.9 mm	= 21.9 mm		
17	18 31 33	-63 7.1	-63 4437	
	18 31 34	-63 7.1	-62 5959	
			18 29 18 -63 27.9	
	Δα: 508"	Δδ: 37.9'	18 37 46 -62 50.0	
	= 49.9 mm	= 32.6 mm		
18	18 34 8	-63 13.1		
	18 34 8	-63 13.1		

Continued on p. 142

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1930phae.proj.232PM

124 A. 6764 (C.C. by D.M.W.)

Feb.	α	δ	comp. letters	Positions in 2000 α | δ
4	14 21 42	-4P 22.0	-4P 6496	
	14 21 42	-4P 22.0	-4P 6464	N. N: a,
	14 21 42	-4P 22.0	14 23 41 -49 41.5	-47 6456
	Δα: 178"	Δδ: 53.4'	14 20 42 -4P 11.1	-46 6703
	: 31.1mm	: 53.1mm	14 28 16 -48 49.4	14 10 36 -47 42.1
				14 10 47 -46 40.6
6	14 2P 05	-49 29.6	-49 716P	Δα = 311" Δδ: 61.5'
	14 2P 05	-49 29.6	-4P 6496	= 50.0mm : 60.0mm
	14 2P 5	-49 29.6	14 31 0 -49 40.4	
	Δα: 440"	Δδ: 35.9'	14 23 40 -49 41.5	14 11 41 -47 32.5
	: 71.0mm	: 34.3mm	14 34 45 -49 56.2	14 11 41 -47 32.5
				14 11 41 -47 32.5
7	14 3P 19	-4P 4P.2	-49 7340	14 18 7 -48 0.5
	14 3P 19	-4P 4P.2	-48 669P	
	14 3P 19	-4P 4P.2	14 38 32 -49 27.9	14 45 3 -49 13.8
	Δα: 136"	Δδ: 67.0'	14 36 16 -4P 20.9	
	: 20.0mm	: 69.2mm		
8	14 37 24	-49 54.7	-49 7332	
	14 37 25	-49 54.7	-49 716P	
	14 37 24	-49 54.7	14 32 5 -50 6.3	14 44 11 -50 20.3
	Δα: 425"	Δδ: 25.9'	14 31 0 -49 40.4	
	: 69.9mm	: 2P.Pmm		
9	14 40 04	-49 25.5	-49 7340	
	14 40 33	-49 25.5	-49 7409	
	14 40 4	-49 25.5	14 38 32 -49 27.9	14 46 50 -49 51.1
	Δα: 312"	Δδ: 2.6'	14 43 44 -49 25.3	
	: 59.2mm	: 2.7mm		

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1930phae.proj.2325M

A·6766 (C.C. by D.M.W.)

Neb.	α	δ	Comp. Stars	Positions in 2000
4	15 4 14	-43 23.7	-43 6903	
	15 4 14	-43 23.7	-43 6907	
	15 4 14	-43 23.7	15 4 3 -43 20.0	15 10 52 -43 47.1
	Δα: 29″	Δδ: 7.1′	15 4 32 -43 27.1	
	: 4.9mm	: 7.7mm		
8	15 5 55	-42 15.4	-42 6936	
	15 5 56	-42 15.4	-41 7082	
	15 5 56	-42 15.4	15 5 0 -42 20.9	15 12 32 -42 38.6
	Δα: 116″	Δδ: 23.2	15 6 58 -42 0.7	
	: 21.2mm	: 18.4		
7	15 0 22	-42 10.8	-42 6926	
	15 0 22	-42 10.8	-41 7033	
	15 0 22	-42 10.8		
	Δα: 158″	Δα: 8.6	15 2 52 -42 13.9	15 6 56 -42 34.4
	: 24.8mm	: 15.1mm	15 0 14 -42 5.3	
9	14 58 51	-41 48.7	-41 7024	
	14 58 51	-41 48.6	-41 7032	
	14 58 51	-41 48.6	14 58 28 -41 30.8	15 5 21 -42 22.6
	Δα: 95″	Δδ: 11.6′	15 0 3 -41 39.2	
	: 20.1mm	: 11.1mm		
10	14 59 05	-41 34.6	-41 7032	
	14 59 04	-41 34.6	-41 7016	
	14 59 4	-41 34.6	15 0 3 -41 39.2	15 5 34 -41 58.6
	Δα: 171″	Δδ: 26.7′	14 57 12 -41 12.5	
	: 31.3mm	: 27.8mm		

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1930phae.proj.232PM

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Nob.	α	δ	Comp. Stars	Positions in 2000 α	δ
11	14 59 37	-41 36.4	-41 7032		
	14. 59 37	-41 36.4	-41 7016		
	14 59 37	-41 36.4	15 1 3 -41 39.2	15 5 8	-42 0.00
	Δα: 171"	Δδ: 26.7'	14 57 12 -41 12.5		
	: 31.3 mm.	: 27.8 mm			
15	14 59 41	-41 25.6			
	14 59 41	-41 25.7			
	14 59 41	-41 20.6		15 6 12	-41 49.2
16	15 0 04	-40 55.5	-41 7016		
	15 0 04	-40 55.4	-40 6P39		
	15 0 4	-40 55.4	14 57 12 -41 12.5	15 6 31	-41 19.4
	Δα: 392"	Δδ: 35.3'	15 3 39 -40 37.2		
	: 74.9 mm	: 32.9 mm.			
17	15 4 20	-40 34.2	-40 6P39		
	15 4 20	-40 34.1	-40 6P46		
	15 4 20	-40 34.2	15 3 39 -40 37.2	15 10 49	-40 57.8
	Δα: 120"	Δδ: 19.7'	15 5 39 -40 17.5		
	: 23.8 mm	: 19.1 mm			
18	14 50 4	-40 10.7	-40 6752		
	14 50 5	-40 10.8	-39 6490		
	14 50 4	-40 10.8	14 49 2 -40 17.0	14 56 28	-40 35.2
	Δα: 107"	Δδ: 11.2'	14 50 49 -40 5.8		
	: 20.9 mm	: 12.3 mm			
12	15 1 37	-41 44.6	-41 7032		
	15 1 38	-41 44.6	-42 6926		
15 1 38	Δα: 169"	Δδ: 34.7'	15 0 3 -41 39.2		
-41 44.6	: 26.8 mm	: 40.9 mm	15 2 52 -42 13.9	15 8 6	-42 8.2

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1936phae.proj.2325M

A 6766

Nb.	α	δ	Comparaisons	Positions en 2000 α	Positions en 2000 δ
19	14 49 27	-40 53.6	-40 6744		
	14 49 27	-40 53.6	-40 6759		
	14 49 27	-40 53.6	14 47 57 -41 0.3	14 55 51	-41 18.4
	Δα: 15.8"	Δδ: 20.0'	14 50 35 -40 45.3		
	= 30.0 mm	= 20.0 mm			
20	14 52 56	-41 7.0	-41 6999		
	14 52 55	-41 7.1	-40 6759		
	14 52 56	-41 7.0	14 54 55 -41 14.8	14 59 24	-41 31.4
	Δα: 26.0"	Δδ: 29.5'	14 50 35 -40 45.3		
	= 40.0 mm	= 30.0 mm			
23	14 54 12	-41 56.1	-42 6759		
	14 54 12	-41 56.0	-41 6994		
	14 54 12	-41 56.0	14 52 32 -42 10.2	15 00 41	-42 20.4
	Δα: 11.4"	Δδ: 19.6'	14 54 21 -41 50.6		
	= 21.7 mm	= 19.4 mm			
24	14 49 59	-44 13.1	-44 7046		
	14 49 59	-44 13.0	-43 6822		
	14 49 59	-44 13.0	14 49 2 -44 16.8	14 56 36	-44 37.8
	Δα: 24.3"	Δδ: 52.9'	14 53 11 -43 24.5		
	= 43.9 mm	= 53.3 mm			
25	14 49 44	-43 18.7	-43 6822		
	14 49 43	-43 18.7	-42 6837		
	14 49 44	-43 18.7	14 53 11 -43 24.5	14 56 17	-43 43.5
	Δα: 28.3"	Δδ: 19.2'	14 49 28 -43 5.3		
	= 51.8	= 19.6 mm			

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1930phae.proj.2324M

Ref.	α	δ	Comp. Stars	Positions in 2000 α	δ
26	14 43 03	-39 45.6	-40 6719		
	14 43 03	-39 45.5	-39 6438		
	14 43 3	-39 45.6	14 43 38 -40 13.5	14 49 22	-40 10.8
	Δα: 64″	Δδ: 36.3′	14 42 34 -39 39.2		
	= 13.1 mm	= 36.2 mm			
27	14 42 59	-40 19.2	-40 6705		
	14 42 59	-40 19.1	-40 6719		
	14 42 59	-40 19.2	14 41 0 -40 37.1	14 49 21	-40 44.4
	Δα: 158″	Δδ: 23.6′	14 43 38 -40 13.5		
	= 31.0 mm	= 24.2 mm			
29	14 43 9	-41 35.1	-41 6636		
	14 43 9	-41 35.1	-41 6925		
	14 43 9	-41 35.1	14 43 53 -41 53.1	14 49 33	-42 0.7
	Δα: 63″	Δδ: 23.7′	14 42 50 -41 29.4		
	= 23.2 mm	= 23.7 mm			
32	14 42 32	-44 19.7	-44 6947		
poor comp. stars	14 42 33	-44 19.6	-44 7015		
but no others on	14 42 32	-44 19.6	14 39 25 -44 26.6	14 49 4	-44 45.2
map which	Δα: 374″	Δδ: 4.1′	14 45 39 -44 30.7		
might be better	= 67.7 mm	= 2.7 mm			
34	14 39 39	-42 5.2	-42 6765		
	14 39 40	-42 5.2	-41 6980		
3 stars	14 37 40	-42 5.2	14 35 44 -42 21.4		
	Δα: 160″	Δδ: 22.7′	14 38 24 -41 58.9		
	= 29.2 mm	= 24.4 mm			

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1930phae.proj.2215M

Mch.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
35	14 36 27	-40 10.6	-40 6677		
	14 36 2A	-40 10.6	-39 6709		
	14 36 2F	-40 10.6	14 36 36 -40 11.9	14 42 48	-40 36.6
	Δα: 15″	Δδ: 6.6′	14 36 21 -40 3.3		
	= 3.1mm.	= 6.4mm			
37	14 37 1	-44 17.4	-44 6947		
poor comp.	14 37 1	-44 17.3	-44 6937		
star but	14 37 1	-44 17.4	14 39 25 -44 26.6	14 43 31	-44 43.4
only possible	Δα: 57″	Δδ: 12.2′	14 3F 2F -44 14.4		
comp	= 10.4mm.	= 12.0mm			
Bailey (see p.836)					
36	14 40 0	-43 32.0	-44 6937		
	14 40 0	-43 32.0	-43 6702		
	14 40 0	-43 32.0	14 3F 2F -44 14.4	14 46 29	-43 57.6
	Δα: 154″	Δδ: 66.2′	14 41 2 -43 42		
	= 26.3mm	= 67.7mm			
C	14 47 32	-42 50.4	-42 6F37		
	14 47 32	-42 50.5	-42 6F2A		
defect	14 47 32	-42 50.4	14 4F 2A -43 0.3		
	Δα: 72″	Δδ: 20.2′	14 47 16 -42 45.1		
	= 13.6mm	= 20.3mm			
2F	14 42 3A	-40 21.0	-40 6705		
	14 42 3A	-40 21.3	-40 6917		
	14 42 38	-40 21.2	See p.128 mch. 27	14 49 00	-40 46.6

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1930phae.proj.232PM

 A.6766, 12425 (C.C. by D.M.W.)

Plate	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
30	14 44 33	-43 30.0	-43 6794		
	14 44 32	-43 30.1	-43 6702		
	14 44 32	-43 30.0	14 49 39 -43 41.1	14 51 2	-43 55.2
	Δα: 5'17"	Δδ: 32.9'	14 41 2 -43 ?.2		
	= 95 mm	= 32.4 mm			
A.12425	①				
A different type of nebulae than hitherto measured - 1,244 dark and diffuse, no. 3 a loose cluster of bright stars - not marked by H.C.	16 39 55	-41 13.?	-41 10?39		
	16 39 56	-41 13.?	-40 10727		
	16 39 56	-41 13.?	16 39 ? -41 17.9	16 46 54	-41 25.0
	Δα: 166"	Δδ: 20.1'	16 40 54 -40 57.?		
	= 30.9 mm	= 20.7 mm			
	②				
	16 3? 1	-40 11.1	-40 7493		
	16 3? 2	-40 11.1	-40 7036		
	16 3? 2	-40 11.1	16 40 23 -40 23.1	16 44 56	-40 22.7
	Δα: 266"	Δδ: 29.7'	16 35 57 -39 53?4		
	= 51.7 mm	= 28.9 mm			
3	16 4? 17	-40 39.4	-40 10?53		
	16 4? 17	-40 39.4	-40 11040		
	16 4? 17	-40 39.4	16 45 59 -40 54.0	16 55 12	-40 49.8
	Δα: 377"	Δδ: 36.6'	16 52 16 -40 17.4		
	= 72.2 mm	= 35.6 mm			
4	16 54 31	-40 31.9	-40 11?ff		
	16 54 31	-40 31.9	-40 11040		
	16 54 31	-40 31.9	16 55 47 -40 45.6	17 1 27	-40 41.5
	Δα: 211"	Δδ: 28.2'	16 52 16 -40 17.4		
	= 40.0 mm	= 29.6 mm			

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1930phae.proj.232PM

A. 6 P 40 (C.C. by D.M.W.)

Nob.	α	δ	Comps. Stars	Positions in 2000 α	Positions in 2000 δ
1	1A 4 4	-56 38.0	-57 A943		
	1A 4 5	-56 37.9	-56 A617		
5.2	1A 4 4	-56 38.0	1A 6 44 -57 6.4	18 12 32	-56 37.2
	Δα: 29.8"	Δδ: 45.7'	18 1 46 -56 20.9		
	= 42.1 mm	= 51.1 mm.			
2	1A 2 15	-56 1A.0	-56 A617		
	1A 2 15	-56 1A.0	-56 A640		
.0	1A 2 15	-56 1A.0	1A 1 46 -56 20.7	18 10 43	-56 17.6
	Δα: 32"	Δδ: 7.7'	1A 2 1A -56 13.0		
	= 13.3 mm.	= 7.2 mm.			
7	1A 4 44	-57 33.4	-57 A937		
	1A 4 44	-57 33.4	-57 A925		
2.7	1A 4 44	-57 33.4	1A 6 A -57 37.0	18 13 20	-57 32.6
	Δα: 136"	Δδ: 12.7'	1A 3 52 -57 24.3		
	= 17.3 mm.	= 13.5 mm			
A	1A 4 26	-57 24.6			
	1A 4 26	-57 24.6			
9.8	1A 4 26	-57 24.6		18 13 2	-57 23.8
9	1A 7 2	-57 24.1	-57 A944		
	1A 7 2	-57 24.1	-57 A943		
	1A 7 2	-57 24.1	1A 7 16 -57 21.8	18 15 38	-57 22.9
	Δα: 32"	Δδ: 20.4'	1A 6 44 -57 6.4		
11.5	= 8.0 mm	= 14.0 mm			

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1930phae.proj.2324M

Feb.	α	δ	Comp. Star	Positions in 2000 α	δ
11	17 59 P	-5P 43.5	-5P 7332		
Mp. 22 on A. 13331	17 59 P	-5P 43.6	-5P 7331		
	17 59 P	-5P 43.6	17 59 53 -5P 44.6	18 7 52	-58 43.6
	Δα: 193"	Δδ: 6.2'	17 56 40 -5P 38.4		
	= 25.2 mm	: 7.1 mm.			
17	17 32 52	-59 2.3	-59 7113		
	17 32 52	-59 2.3	-5P 7224		
faint star	17 32 52	-59 2.3	17 34 17 -59 9.7		
	Δα: 189"	Δδ: 12.7'	17 31 P -5P 57.0		
	= 17.5 mm	: 11.8 mm			
18	17 33 13	-5P 50.5	-59 7113		
faint star	17 33 12	-5P 50.5	-5P 7229		
	17 33 12	-5P 50.5	17 34 17 -59 9.7		
	Δα: 68"	Δδ: 23.7'	17 33 9 -5P 46.0		
	= 10.2 mm	: 23.1 mm.			
19	17 33 47	-5P 46.2			
	17 33 46	-5P 46.2			
	17 33 46	-5P 46.2		17 42 30	-58 49.9
20	17 31 31	-5P 22.6	-5P 7222		
	17 31 31	-5P 22.6	-5P 7219		
	17 31 31	-5P 22.6	17 31 47 -5P 24.1	17 40 15	-58 26.6
	Δα: 39"	Δδ: 5.2'	17 31 P -5P 18.9		
	= 6.0 mm	: 4.8 mm			

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1930phae.proj.232PM

A.6840, 1333 / (Checked nebs. on C.C. by D.M.W.)

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
21	17 27 37	-5P 11.2	-5P 7144		
Bailey's 1854	17 27 35	-5P 11.2	-5 7 4629		
(17 27 31 -5P 11.3)	17 27 36	-5P 11.2	17 27 0 -5P 1A3	17 36 20	-58 16.0
	Δα: 56"	Δδ: 23.3'	17 27 56 -5 7 5510		
	: 5.8mm.	: 23.9mm.			
cont. on p. 134					
A.13331					
3	17 40 51	-60 42.5	-60 6954		
	17 40 51	-60 42.3	-60 6930		
	17 40 51	-60 42.5	17 43 26 -60 46.5	17 49 55	-60 45.3
	Δα: 339"	Δδ: 10.1'	17 37 47 -60 36.4		
	: 42.6mm.	: 41.1mm.			
8	17 39 46	-60 39.3			
	17 39 46	-60 39.3			
	17 39 46	-60 39.3		17 48 50	-60 42.1
20	17 43 7	-60 41.4			
	17 43 7	-60 41.4			
	17 43 7	-60 41.4		17 52 11	-60 43.8
5	17 37 56	-60 26.3	-60 6930		
	17 37 56	-60 26.3	-60 6944		
	17 37 56	-60 26.3	17 37 47 -60 36.4	17 47 00	-60 28.3
	Δα: 167"	Δδ: 21.1'	17 40 34 -60 10.3		
	: 19.0mm.	: 23.0mm.			
6 ✓	17 42 22	-60 6.4	-60 6944		
	17 42 23	-60 6.3	-59 7175		
	17 42 22	-60 6.4	17 40 34 -60 15.3	17 51 26	-60 8.8
	Δα: 352"	Δδ: 17.6'	17 46 26 -59 57.7		
	: 43.8mm.	: 20.2mm.			

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1930phae.proj.2324M

134 A/3331

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
7	17 41 30	−59 31.6	−59 7175		
	17 41 28	−59 31.5	−59 7153		
	17 41 29	−59 31.6	17 46 26 −59 57.7	17 50 27.1	−59 34.4
	Δα: 321"	Δδ: 37.0′	17 40 5 −59 20.7		
	= 50.9mm.	= 34.3mm.			
16	17 44 43	−59 49.0			
	17 44 45	−59 49.0			
	17 44 45	−59 49.0		17 53 43.37	−59 51.4
10	17 38 4	−59 13.5	−59 7153		
	17 38 3	−59 13.5	−58 7247		
	17 38 4	−59 13.5	17 40 5 −59 20.7	17 47 2.56	−59 16.7
	Δα: 190"	Δδ: 24.7′	17 36 5.5 −58 56.0		
	= 26.3mm.	= 23.3mm.			
11	17 49 55	−58 21.7	−58 7297		
	17 49 55	−58 21.7	−57 8133		
	17 49 55	−58 21.7	17 48 39 −58 27.8	17 58 39	−58 23.3
	Δα: 207"	Δδ: 28.5′	17 52 6 −57 59.3		
	= 26.5mm.	= 29.3mm.			
19	17 50 38	−58 5.8			
	17 50 38	−58 5.8			
	17 50 38	−58 5.8		17 59 22	−58 7.4
12	17 51 45	−59 7.6	−59 7196		
	17 51 45	−59 7.7	−58 7308		
	17 51 45	−59 7.6	17 50 24 −59 27.4	18 00 43.37	−59 8.8
	Δα: 103"	Δδ: 30.9′	17 52 7 −58 56.5		
	= 12.6mm.	= 31.6mm.			

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1930phae.proj.232PM

A·13361

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
13	17 50 24	-59 29.8	-59 7191		
	17 50 24	-59 29.8	-59 7196		
	17 50 24	-59 29.8	17 50 12 -59 33 7	17 59 16	-59 31.4
	Δα: 12"	Δδ: 6.3'	17 50 24 -59 29.4		
	= 9.0mm	= 6.8			
14 ✓	17 47 42	-60 15.5	-60 6969		
	17 47 42	-60 15.5	-59 7175		
	17 47 42	-60 15.5	17 48 58 -60 18.4	17 56 46	-60 17.5
	Δα: 15.2"	Δδ: 20.7'	17 46 26 -59 57.7		
	= 12.0mm	= 20.2mm			
15 ✓	17 51 52	-59 47.9	-60 6989		
	17 51 52	-59 47.9	-59 7191		
	17 51 52	-59 47.9	17 54 10 -60 18.1	18 00.44	-59 49.1
	Δα: 238"	Δδ: 36.4'	17 50 12 -59 33.7		
	= 31.2mm	= 35.8mm			
17	17 48 18	-60 46.7	-60 6966		
	17 48 18	-60 46.9	-60 6971		
	17 48 18	-60 46.7	17 47 48 -60 48.0	17 57 22	-60 48.7
	Δα: 113"	Δδ: 8.1'	17 49 33 -60 39.9		
	= 13.6mm	= 8.8mm			
21 ✓	17 55 28	-59 37.3	-59 7209		
	17 55 24	-59 37.3	-59 7221		
	17 55 26	-59 37.3	17 54 15 -59 46.8	18 4 22	-59 38.1
	Δα: 197"	Δδ: 20.7'	17 57 28 -59 26.1		
	= 24.1mm	= 21.1mm			

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1930phae.proj.23[illegible]M

Nob.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
22 ✓	17 59 25	-58 43.3	-59 7228		
	17 59 25	-58 43.3	-58 7336		
	17 59 25	-58 43.3	18 0 0 -59 0.6	18 8 19	-58 43.3
	Δα: 127"	Δδ: 20.0'	17 58 53 -58 40.6		
	= 8.3mm	= 19.8mm			
24 ✓	18 2 04	-58 10.4	-58 7349		
	18 2 04	-58 10.4	-57 8192		
	18 2 4	-58 10.4	18 8 12 -58 12.5	18 10 48	-58 10.0
	Δα: 158"	Δδ: 21.1'	18 0 34 -57 51.4		
	= 20.8mm	= 21.3mm			
25 ✓	18 3 10	-58 59.7	-59 7232		
	18 3 10	-58 59.7	-58 7351		
	18 3 10	-58 59.7	18 1 30 -59 19.4	18 11 54	-58 59.3
	Δα: 120"	Δδ: 29.2'	18 3 30 -58 50.2		
	= 16.2mm	= 29.4mm			
26 ✓	18 0 39	-59 59.7	-60 6998		
	18 0 38	-59 59.8	-59 7230		
	18 0 38	-59 59.8	17 58 37 -60 4.4	18 9 34	-59 59.8
	Δα: 211"	Δδ: 9.9'	18 2 8 -59 54.5		
	= 19.5mm	= 9.5mm			
27	17 50 23	-62 14.7	-62 5762		
	17 50 23	-62 14.7	-62 5752		
	17 50 23	-62 ~~14.7~~	17 51 37 -62 29.9	17 59 47	-62 16.3
	Δα: 166"	Δδ: 21.3'	17 48 51 -62 8.6		
	= 20.2mm	= 21.0mm			

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1930phae.proj.234SM

A.13331

Nsb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
22 ✓	18 5 20	-60 7.1	-60 7014.		
	18 5 20	-60 7.3	-60 7016		
	18 5 20	-60 7.2	18 4 20 -60 22.9	18 14 24	-60 6.4
	Δα: 17"	Δδ: 21.3'	18 5 47 -60 1.6		
	= 11.2mm	= 21.4mm			
32 ✓	17 58 27	-58 4.0	-58 7332		
	17 58 27	-58 4.0	-57 4492		
	17 58 27	-58 4.0	17 56 47 -58 10.0	18 7 11	-58 4.4
	Δα: 227"	Δδ: 18.6'	18 0 34 -57 51.4		
	= 30.2mm	= 19.2mm			
32a ✓	17 54 16	-58 1.9	-58 7318		
	17 54 16	-58 1.8	-57 4453		
	17 54 16	-58 1.8	17 53 02 -58 12.7	18 3 00	-58 2.6
	Δα: 58"	Δδ: 14.8'	17 54 50 -57 57.9		
	= 7.8mm	= 15.2			
32b ✓	17 54 21	-58 6.4			
	17 54 21	-58 6.3			
	17 54 21	-58 6.4		18 3 5	-58 7.2
23 ✓	17 57 8	-57 27.7	-57 4882		
	17 57 8	-57 27.6	-57 4849.		
	17 57 8	-57 27.6	17 58 37 -57 33.9	18 5 44	-57 28.0
	Δα: 241"	Δδ: 14.2'	17 54 31 -57 19.7		
	= 33.2mm	= 14.1mm			

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1930phae.proj.231SM

 A.1333, P924 (C.C. by D.H.W.).

Neb.	α	δ	Comp. stars	Positions 1900 α	δ
34 ✓	18 15 38	−59 50.3	−60 7036		
	18 15 37	−59 50.4	−59 7208		
	18 15 38	−59 50.4	18 16 36 −60 9.4	18 24 30	−59 48.0
	Δα = 195″	Δδ = 33.0′	18 13 21 −59 36.4		
	= 22.3 mm.	= 34.8 mm.			
35 ✓	18 16 1	−60 6.3			
	18 16 1	−60 6.4			
	18 16 1	−60 6.4		18 25 5	−60 4.0
37	18 18 30	−61 3.4	−61 6156		
	18 18 29	−61 3.5	−60 7131		
	18 18 30	−61 3.4	18 20 43 −61 6.3	18 27 42	−61 1.0
	Δα = 294″	Δδ = 20.9′	18 15 49 −60 45.4		
	= 35.9 mm.	= 23.9 mm.			
38	18 19 30	−60 56.7			
	18 19 30	−60 56.8			
	18 19 30	−60 56.8		18 28 34	−60 54.0
A.P924					
2	18 4 13	−15 35.4	−15 4851		
	18 4 13	−15 35.4	−15 4833		
	18 4 13	−15 35.4	18 5 50 −15 43.8	18 9 58	−15 34.8
See p.112	Δα = 145″	Δδ = 23.3′	18 3 25 −15 20.5		
	= 35.1 mm.	= 22.8 mm.			
4	18 7 20	−14 16.8	−14 4918		
	18 7 20	−14 16.8	−14 4940		
	18 7 20	−14 16.8	18 5 32 −14 27.0	18 13 1	−14 15.7
	Δα = 149″	Δδ = 14.5′	18 8 1 −14 12.5		
	= 36.2 mm.	= 14.5 mm.			

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1930phae.proj.232EM

A.7424, 7413 (C.C. by D.M.W.)

Neb	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
1	18 24 30	-47 14.7	-47 A909		
	18 24 30	-47 14.7	-47 A961		
	18 24 30	-47 14.7	18 24 4 -47 28.0	18 32 2	-47 11.1
	Δα: 3.51″	Δδ: 14.7′	18 29 5.5 -47 9.3		
	= 63.3 mm.	= 10.0 mm.			
2	18 25 55	-47 16.2			
	18 25 55	-47 16.2			
	18 25 55	-47 16.2		18 33 27	-47 12.2
3	18 29 10	-47 5.8			
	18 29 10	-47 5.8			
	18 29 10	-47 5.8		18 36 42	-47 1.6
A.7413					
2	17 50 8	-53 56.7	-54 A596		
	17 50 7	-53 56.6	-53 A503		
	17 50 8	-53 56.6	17 51 2 -54 10.3	17 58 16	-53 58.2
	Δα: .94″	Δδ: 25.0′	17 49 28 -53 45.3		
	= 14.7 mm.	= 25.6 mm.			
1	17 32 0	-52 21.7	-52 10767		
	17 32 0	-52 21.7	-52 10749		
three stars?	17 32 0	-52 21.7	17 32 5.0 -52 34.1		
yes	Δα: 99″	Δδ: 20.1′	17 31 11 -52 14.0		
	= 16.5 mm.	= 19.3 mm.			

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1930phae.proj.231PM

140 A.12049, 12087 (C.C. by D.M.W.).

Neb.	α	δ	Comp. Stars	Positions 1950 α	Positions 1950 δ
9	17 12 25	-25° 14.7	-24 5°29.7		
See. BK. 3 p 59	17 12 26	-25° 14.7	-25° 5°993		
	17 12 26	-25° 14.7	17 11 29 -24 59.8		
	Δα: 88"	Δδ: 37.1'	17 12 53 -25° 36.9		
	= 17.5 mm.	= 43.1 mm.			
11	17 19 32	-26 6.6	-26 5°891		
	17 19 32	-26 6.6	-26 5°895		
	17 19 32	-26 6.6	17 19 47 -26 13.2	17 25 45	-26 11.4
	Δα: 29"	Δδ: 9.6'	17 19 18 -26 3.6		
	= 6.5 mm.	= 9.6 mm.			
A.12087					
1	17 51 58	-31 5P.7	-32 5°19		
	17 51 58	-31 5P.7	-31 5°151		
	17 51 58	-31 5P.7	17 53 12 -32 12.8	17 58 27	-31 59.9
	Δα: 110"	Δδ: 30.6'	17 51 22 -31 42.2		
	= 21.7 mm.	= 26.1 mm.			
A.12021	18 37 32	-11 27.0	-11 4729		
1	18 37 32	-11 27.0	-11 4717		
	18 37 32	-11 27.0	18 38 4 -11 40.1	18 43 8	-11 21.6
	Δα: 69"	Δδ: 23.3'	18 36 55 -11 16.8		
	= 17.1 mm.	= 23.3 mm.			
2	18 44 14	-11 23.8	-11 4753		
	18 44 14	-11 23.9	-11 4773		
double image	18 44 14	-11 23.8	18 42 46 -11 35.5		
	Δα: 130"	Δδ: 23.0'	18 44 56 -11 12.5		
	= 32.2 mm.	= 22.3 mm.			

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1939phac.proj.zzzEW

A.6134 (C.C. by D.M.W.) are some Bailey's checkstars - only 7 stated checked J.F.M.

Mod	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
2	19 7 55	-27 49.4	-28 10 5 25		
	19 7 35	-27 49.5	-27 13 7 15		
	19 7 55	-27 49.4	19 7 6 -28 3.5	19 14 9	-27 39.6
	Δα: 70"	Δδ: 30.3'	19 6 16 -27 33.2		
	= 19.7mm	= 30.5mm			
3	19 13 32	-28 39.8	-29 10 9 7 7		
	19 13 32	-28 59.8	-28 15 6 7 4		
	19 13 32	-28 59.8	19 13 10 -29 11.6	19 17 40	-29 19.0
	Δα: 40"	Δδ: 28.6'	19 13 50 -28 43.0		
	= 9.9mm	= 30.1mm			
7	19 21 40	-28 37.5	-28 15 8 4 2		
Bailey's 1939	19 21 40	-28 37.4	-28 15 8 0 3		
(19 21 39.6 -28 36.5)	19 21 40	-28 37.4	19 22 4 -28 42.9	19 25 48	-28 56.6
i. -i [illegible]	Δα: 136"	Δδ: 12.2'	19 19 46 -28 31.7		
	= 29.8mm	= 13.6mm			
8	19 17 34	-30 14.8	-30 19 0 14		
	19 17 34	-30 14.8	-30 16 9 6 6		
defect	19 17 34	-30 14.8	19 19 29 -30 15.4		
	Δα: 123"	Δδ: 4.5'	19 16 26 -30 13.9		
	= 39.8mm	= 5.2mm			

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1930phae.proj.232PM

continued from p. 123.

1930	α	δ	Comp. Stars	Positions in 2000 α	δ
19	18 38 0	-63 0.4	-63 4451		
	18 38 0	-63 0.4	-62 5959		
	18 38 0	-63 0.4	18 39 35 -63 22.6	18 47 32	-62 54.8
	Δα: 109"	Δδ: 32.6'	18 39 46 -62 50.0		
	= 15.9mm	= 31.8mm			
20	18 38 28	-63 4.8			
	18 38 29	-63 4.8			
	18 38 28	-63 4.8		18 48 00	-62 59.2
21	18 39 1	-63 10.6			
	18 39 1	-63 10.6			
	18 39 1	-63 10.6		18 48 33	-63 4.6
22	18 38 54	-63 11.6			
	18 38 54	-63 11.6			
	18 38 54	-63 11.6		18 48 26	-63 5.6
29	18 41 22	-63 11.3	-63 4451		
	18 41 22	-63 11.3	-62 5990		
	18 41 22	-63 11.3	18 39 35 -63 22.6	18 50 54	-63 5.3
	Δα: 283"	Δδ: 30.8'	18 44 18 -62 51.8		
	= 34.3mm	= 28.6mm			
28	18 45 08	-63 26.1	-63 4456		
	18 45 08	-63 26.1	-63 4459		
	18 45 8	-63 26.1	18 43 11 -63 50.3	18 54 38	-63 19.5
	Δα: 149"	Δδ: 24.6'	18 45 40 -63 25.7		
	= 18.1mm	= 23.2mm			

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1930phae.proj.2325M

A.5-459

Nch.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
26	18 38 15	−63 42.2	−63 4451		
	18 38 14	−63 42.3	−63 4437		
	18 38 14	−63 42.2	18 43 11 −63 50.3	18 47 46	−63 36.6
	Δα = 8.33	Δδ = 22.4′	18 29 18 −63 27.9		
	= 87.2 mm	= 24.1 mm			
25	18 35 6	−63 36.7			
	18 35 6	−63 36.7			
	18 35 6	−63 36.7		18 44 38	−63 31.5
30	18 36 41	−63 28.1			
	18 36 41	−63 28.1			
	18 36 41	−63 28.1		18 46 13	−63 22.5
24	18 32 5	−63 40.7			
	18 32 4	−63 40.7			
	18 32 4	−63 40.7		18 41 36	−63 35.9

complete

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1930phae.proj.23:PM

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1936phae.proj.2021M

A.5654 (badly broken - C.C. by D.M.W.) 45 39 (cont. from p. .67)

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
1	18 37 1	-56 50.6	-57 9184		
	18 37 1	-56 50.6	-56 8925		
	18 37 1	-56 50.6	18 37 25 -57 1.6	18 45 29	-56 45.0
	Δα: 1.16"	Δδ: 12.6'	18 35 29 -56 49.0		
	= 15.2 mm.	= 13.5 mm.			
2	18 40 14	-57 20.2	-57 9201		
	18 48 18	-57 20.2	-57 9212		
	18 40 14	-57 20.2	18 39 49 -57 26.0	18 48 46	-57 14.2
	Δα: .74"	Δδ: 22.2'	18 41 3 -57 3.8		
	= 12.3 mm.	= 21.3			
3	18 43 28	-57 26.3	-57 9219		
	18 43 28	-57 26.3	-57 9231		
	18 43 28	-57 26.3	18 42 25 -57 29.4	18 52 00	-57 19.9
	Δα: 1.19"	Δδ: 12.7'	18 44 24 -57 16.7		
	= 17.1 mm.	= 11.1 mm.			
A. 45 39 cont. from p. 67 7	16 21 21	-69 50.0	-69 2061		
	16 21 21	-69 57.9	-69 2041		
	16 21 21	-69 50.0	16 18 16 -69 58.9	16 31 53	-70 12.0
	Δα: 3.57"	Δδ: 5.6'	16 24 7 -69 53.3		
	= 32.3 mm.	= 5.5 mm.			
8	16 10 01	-69 54.3	-69 2515		
	16 10 01	-69 54.3	-69 2538		
I.C. 4595	16 10 1	-69 54.3	16 9 26 -70 2.9		
	Δα: 2.00"	Δδ: 18.8'	16 14 6 -69 44.1		
	= 23.0 mm.	= 20.1 mm.			

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1930phae.proj.2325M

146 A6765 (no. 21 C.C.)
A 6423 (C.C. by D. M. W.)

Neb.	α	δ	comp. stars	Positions in 2000 α	δ
2	15 1 36	−54 0.2	−54 6361		
	15 1 36	−54 0.1	−53 62F4		
	15 1 36	−54 0.1	15 2 42 −54 A.0	15 8 56	−54 23.7
	Δα: 161″	Δδ: 11.4′	15 0 1 −53 57.1		
	= 17.2 mm.	= 9.1 mm.			
A. 6765					
21	13 54 38	−44 55.2	−44 6598		
↓	13 54 38	−44 55.2	−44 6627		
H. N. 1734	13 54 38	−44 55.2	13 52 02 −44 5F.8	14 00 48	−45 24.4
	Δα: 291″	Δδ: 50.7′	13 57 49 −44 A.1		
	= 49.4 mm	= 54.1 mm			
1	14 3 16	−39 3P.9	−39 6222		
= N 4P3	14 3 16	−39 3P.9	−39 6212		
	14 3 16	−39 3P.9	14 3 56 −39 52.9	14 9 20	−40 7.5
	Δα: 136″	Δδ: 1.5.8′	14 1 40 −39 37.9		
	= 27.0 mm	= 14.5 mm			
2	14 5 25	−39 39.1	−39 6222		
	14 5 25	−39 39.1	−39 6237		
	14 5 25	−39 39.1	14 3 56 −39 52.9	14 11 29	−39 7.9
	Δα: 199″	Δδ: 22.5′	14 7 15 −39 30.4		
	= 38.0 mm	= 23.2 mm			
3	14 8 30	−40 8.8	−40 64P2		
	14 8 30	−40 7.9	−39 624P		
	14 8 30	−40 8.0	14 7 30 −40 20.2	14 14 38	−40 36.4
	Δα: 99″	Δδ: 42.3′	14 9 9 −39 37.9		
	= 18.5 mm	= 42.8 mm			

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1936phae.proj.252PM

A.4765

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
a	14 6 30	-39 58.7	-39 6224		
	14 6 30	-39 58.7	-39 6237		
	14 6 30	-39 58.7	14 5 50 -40 6.8	14 12 36	-40 27.0
	Δα: 45"	Δδ: 36.4'	14 7 15 -39 30.4		
	= 15.0mm.	= 37.2mm.			
4	14 10 30	-39 55.6	-40 6578		
	14 10 31	-39 55.6	-39 6248		
	14 10 30	-39 55.6	14 11 30 -40 23.8	14 16 36	-40 3.7
	Δα: 141"	Δδ: 45.9'	14 9 9 -39 37.9		
	= 27.3mm.	= 46.1mm.			
5	14 16 44	-39 49.2	-39 6290		
	14 16 44	-39 49.2	-39 6279		
	14 16 44	-39 49.2	14 17 11 -39 53.1	14 22 54	-40 16.8
	Δα: 154"	Δδ: 24.8'	14 14 33 -39 28.3		
	= 30.1mm.	= 25.3mm.			
c	14 18 19	-40 34.9	-40 6569		
	14 18 19	-40 34.9	-40 6554		
	14 18 19	-40 34.9	14 19 43 -40 46.3	14 25 20	-40 32.1
	Δα: 170"	Δδ: 19.5'	14 16 53 -40 24.8		
	= 32.3mm.	= 20.0mm.			
6	14 23 54	-40 40.3	-40 6593		
	14 23 54	-40 40.4	-40 6603		
	14 23 54	-40 40.4	14 22 32 -40 47.2	14 30 54	-40 36.8
	Δα: 129"	Δδ: 23.3'	14 24 41 -40 23.9		
	= 25.2mm.	= 22.6mm.			

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1930phae.proj.231PM

Neb.	α	δ	comp. stars	Positions 1.2000 α	δ
8	14 10 26	-42 22.3	-42 6607		
	14 10 27	-42 22.2	-42 6589		
	14 10 26	-42 22.2	14 10 50 -42 23.8	14 16 39	-42 49.6
	Δα: 148"	Δδ: 11.1'	14 8 22 -42 12.7		
	= 27.9mm	= 10.8mm			
d	14 6 2	-42 29.9	-42 6575		
	14 6 1	-42 29.8	-42 6581		
	14 6 2	-42 29.8	14 6 10 -42 53.3	14 12 13	-42 58.4
	Δα: 31"	Δδ: 36.9'	14 6 41 -42 16.4		
	= 3.2mm	= 37.5mm			
14	14 12 49	-44 51.3	-44 6715		
	14 12 49	-44 51.3	-44 6693		
	14 12 49	-44 51.3	14 14 19 -44 43.6	14 19 7	-45 19.4
	Δα: 302	Δδ: 11.9'	14 9 17 -44 31.7		
	= 54.0mm	= 11.7mm			
15	14 10 58	-44 44.0			
	14 10 58	-44 43.9			
	14 10 58	-44 44.0		14 17 14	-45 12.1
16	14 6 59	-44 55.8	-44 6693		
	14 6 59	-44 55.7	-44 6694		
H.N. 1736	14 6 59	-44 55.8	14 9 17 -44 31.7	14 13 15	-45 24.2
	Δα: 18"	Δδ: 24.0'	14 9 35 -44 7.7		
	= 2.9mm	= 24.9mm			

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1930phae.proj.2020M

A. 6760

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
18	14 7 16	-43 2.5	-44 6694		
	14 7 16	-43 2.4	-42 6575		
	14 7 16	-43 2.4	14 9 35 -44 7.7	14 13 29	-43 30.7
	Δα: 205″	Δδ: 74.4′	14 6 10 -42 53.3		
	: 36.9mm	: 74.2mm			
19	13 52 56	-43 29.8	-43 6360		
	13 52 56	-43 29.7	-43 6354		
poor comp stars	13 52 56	-43 29.8	13 54 3 -43 44.2	13 59 3	-43 59.4
H.N. 1733	Δα: 43″	Δδ: 31.2′	13 53 20 -43 13.0		
	: 10mm	: 30.9mm			
20	13 52 7	-43 28.0			
	13 52 7	-43 27.9			
n.b.c. 5380	13 52 7	-43 28.0		13 58 14	-43 57.6
22	13 57 14	-40 53.9	-41 6612		
	13 57 14	-40 53.9	-40 6432		
	13 57 14	-40 53.9	13 56 39 -41 8.3	14 3 23	-41 23.1
	Δα: 117″	Δδ: 20.1′	13 58 36 -40 48.2		
	: 22.0mm	: 20.9mm			
23	14 10 48	-40 5.2	-40 6518		
	14 10 48	-40 5.2	-39 6248		
	14 10 48	-40 5.2	14 11 30 -40 23.8	14 16 57	-40 33.4
	Δα: 141″	Δδ: 45.9′	14 9 9 -39 37.9		
	: 27.0mm	: 46.8mm			
24	14 12 10	-42 55.3	-42 6622		
	14 12 18	-42 55.3	-42 6604		
	14 12 14	-42 55.3	14 12 48 -43 6.8	14 18 24	-43 23.3
	Δα: 152″	Δδ: 18.4′	14 10 16 -42 48.4		
	: 28.0mm	: 18.8mm			

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1930phae.proj.233PM

150 A.13454 (C.C. by L. M. W.)

No.	α	δ	Comparisons	Positions in 2000 α	δ
2	15 4P 9	-26 16.4	-26 11106		
	15 4P 9	-26 16.4	-25 11151		
	15 4P 9	-26 16.4	15 49 39 -26 27.2	15 54 13	-26 34.4
	Δα: 204"	Δδ: 26.1'	15 46 13 -26 1.1		
	: 46.9mm	: 25.0mm			
3	15 53 24	-25 3.0	-25 11275		
	15 53 24	-25 3.0	-24 12397		
	15 53 24	-25 3.0	15 56 6 -25 20.8	15 59 26	-25 20.6
	Δα: 309"	Δδ: 31.2'	15 50 57 -24 49.6		
	: 71.1mm	: 30.0mm			
5	15 56 59	-23 16.2	-23 12649		
	15 56 59	-23 16.2	-22 11323		
	15 56 59	-23 16.2	15 56 36 -23 24.3	16 2 56	-23 33.4
	Δα: 94"	Δδ: 37.9'	15 55 14 -22 46.4		
	: 22.1mm	: 37.9mm			
6	15 57 57	-22 40.4	-22 11323		
	15 57 56	-22 40.4	-22 11301		
	15 57 56	-22 40.4	15 56 14 -22 46.4	16 4 51	-22 58.8
	Δα: 139"	Δδ: 14.4'	15 55 55 -22 32.0		
	: 32.8mm	: 14.8mm			
7	15 56 51	-22 11.4	-22 11301 (C.D.M.)		
	15 56 51	-22 11.5	-21 60P3 (C.P.D.)		
	15 56 51	-22 11.4	15 55 55 -22 32.0	16 3 46	-22 29.8
	Δα: 99"	Δδ: 35.8'	15 57 34 -21 56.2		
	: 26.9mm	: 29.2mm			

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1936phae.proj.232PM

A.13404

Nb.	α	δ	Comp. Stars	Positions in 2000 α	δ
8	16 0 41	-24 31.2	-24 12556		
	16 0 41	-24 31.1	-23 6318		
4.4	16 0 41	-24 31.2	16 2 4 -24 40.0	16 6 41	-24 47.6
	Δα: 142"	Δδ: 43.1'	15 59 36 -23 56.9		
	= 34.1mm	: 42.8mm			
9	16 3 41	-24 45.6	-25 11396		
	16 3 40	-24 45.6	-24 12556		
0.6	16 3 40	-24 45.6	16 4 10 -25 6.3	16 9 41	-25 1.6
	Δα: 126"	Δδ: 26.3'	16 2 4 -24 40.0		
	: 29.9mm	: 26.9mm			
10	(16) 56 33	-25 31.8	-25 11301		
?	(16) 56 33	-25 31.7	-25 11275		
3.4	(16) 56 33	-25 31.8	15 57 52 -25 5.40	17 2 41	-25 41.2
	Δα: 106"	Δδ: 33.2'	15 56 6 -25 20.8		
	: 24.3mm	: 33.0mm	error?		
C	15 57 8	-25 40.6			
	15 57 8	-25 40.5			
8.8	15 57 8	-25 40.6		16 3 10	-25 57.8
11	15 56 58	-26 09.0	-26 11170		
	15 56 58	-26 09.0	-25 11290		
	15 56 58	-26 9.0	15 57 6 -26 21.5	16 3 3	-26 26.2
	Δα: 26"	Δδ: 22.8'	15 56 40 -25 58.7		
9.8	= 5.9mm	: 22.8mm			

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1930phae.proj.232PM

 A.13454, 12037, P377

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
12	16 4 52	-25 46.2	-25 11444		
	16 4 52	-25 46.1	-25 11396		
	16 4 52	-25 46.2	16 7 48 -26 2.5	16 11 2	-25 54.2
	Δα: 218"	Δδ: 56.2'	16 4 10 -25 6.3		
	: 49.1mm	: 56.6mm			
8	15 53 13	-24 3P.6	-24 12397		
	15 53 12	-24 3P.6	-24 12455		
	15 53 12	-24 3P.6	15 50 0.7 -24 49.6	15 59 11	-24 56.2
	Δα: 237"	Δδ: 18.5'	15 54 54 -24 31.1		
	: 54.2mm	: 20.4mm			
A.12037 (C.C. by D.M.W.)					
1	16 10 16	-23 27.4	-23 12844		
	16 10 16	-23 27.4	-22 11490		
	16 10 16	-23 27.4	16 10 58 -23 29.9	16 16 16	-23 41.8
	Δα: 120"	Δδ: 31.2'	16 8 58 -22 58.7		
	: 26.0mm	: 31.2mm			
2.	16 15 26	-22 10.5	-22 11521		
	16 15 26	-22 10.4	-22 11524		
	16 15 26	-22 10.4	16 13 58 -22 20.7	16 21 34	-22 24.0
	Δα: 116"	Δδ: 15.7'	16 15 54 -22 5.0		
	: 21.2mm	: 16.7mm			
A.P377 (C.C. by D.M.W.)					
1	16 51 37	-58 31.7	-58 6958		
	16 51 37	-58 31.6	-58 6953		
	16 51 37	-58 31.6	16 52 42 -58 41.5	17 00 13	-58 41.6
	Δα: 134"	Δδ: 19.9'	16 50 28 -58 21.6		
	: 12.1mm	: 20.2mm			

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1930phae.proj.232PM

A.P377, A368 (c.cby D.M.W) 3690

Plate	α	δ	Comp. Stars	Positions in 2000
				α not a rel. δ
9	16 57 30	-62 20.1	-62 5425	
	16 57 28	-62 20.1	-62 5422	
42	16 57 29	-62 20.1	16 58 18 -62 30.6	17 6 45 -62 28.9
	Δα: 74"	Δδ: 20.6'	16 56 59 -62 10.0	
	= 4.8mm	= 20.8mm		
A.P368				
4	14 58 59	-46 29.0	-46 9783	
	14 58 59	-46 29.0	-46 9799	
6.2	14 58 59	-46 29.0	14 59 4 -46 43.8	15 5 45 -46 52.6
	Δα: 12"	Δδ: 30.4'	14 58 52 -46 13.4	
	= 9.2mm	= 30.4mm		
A.3690				
29	15 57 20	-22 3.8	-22 6116	
	15 57 20	-22 2.9	-21 6082	16
1.8	15 57 20	-22 3.0	15 58 15 -22 46.0	-22 3 15 -22 202
	Δα: 91"	Δδ: 58.3'	15 56 44 -21 48.2	
	= 23.3mm	= 58.2mm		
35	15 57 52	-22 27.5		
	15 57 52	-22 27.4		
4.0	15 57 52	-22 27.4		16 3 47 -22 44.6
38	15 57 4	-22 15.2		
	15 57 4	-22 15.1		
	15 57 4	-22 15.2		
41.6	15 57 59	-22 40.4		
39	15 57 58	-22 40.3		
	15 57 58	-22 40.4		16 3 53 -22 57.6

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1930phae.proj.2322M

154 A.3690, 3P10, 6P40

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
15	16 5 5	-24 43.8	-24 5666		
	16 5 3	-24 43.9	-24 5665		
	16 5 4	-24 43.8	16 5 29 -24 29.6	16 11 5	-24 59.8
	Δα = 30"	Δδ: 21.7'	16 4 59 -24 57.3		
	= 10.0 mm	: 20.1 mm			
A.3P10 (C.C. by D.M.W.)					
Scale: CA. Ip. 76	17 26 19	-20 37.9	-20 4790 (S.D.)	17 32 15	-20 43.3
21'	17 26 19	-20 37.9	-20 4793 (S.D.)		
	17 26 19	-20 37.9	17 26 17 -20 41.4		
	Δα: 22"	Δδ: 15.7'	17 26 39 -20 25.7		
	= 4.9 mm	: 16.0 mm			
A.6P40					
Cont. from p. 133	17 36 47	-59 15.3	-59 7150	24	= 20.9 transferred from A.6455
= no. 10 transferred from A.6455	17 36 47	-59 15.3	-59 7113		-60 6944
	17 36 47	-59 15.3	17 39 11 -59 24.6		-59 7168
22	Δα: 294"	Δδ: 14.9'	17 34 17 -59 9.7	17 40 34	-60 15.4
	: 38.7 mm	: 12.7 mm	17 45 39 -59 18.5	17 44 40	-59 52.2
				Δα = 246"	Δδ = 17.2'
9	17 33 37	-56 50.1	-56 P3P2	: 28.0 mm	: 18.7 mm
	17 33 37	-56 50.1	-56 P407	17 42 5	-56 53.7
	17 33 37	-56 50.1	17 33 10 -56 56.0	17 42 46	-60 7.4
	Δα = 126"	Δδ = 25.0'	17 35 16 -56 31.0	17 42 46	-60 7.4
	= 15.2 mm	= 26.1 mm			
= 14 transferred from A.6405	17 28 51	-55 29.9	-55 P235		
23	17 28 51	-55 29.9	-55 P226		
	17 28 51	-55 29.9	17 29 24 -55 37.9	17 37 11	-55 34.3
	Δα: 62"	Δδ: 17.3'	17 28 22 -55 20.6		
	: 10.7 mm	: 16.3 mm			

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1996phae.proj.232SM

A.6455, 13461

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
8	17 17 55	-54 51.5	-54 P245		
	17 17 55	-54 51.5	-54 P304		
	17 17 55	-54 51.5	17 15 31 -54 57.9	17 26 7	-54 57.9
	Δα: 22.7"	Δδ: 7.6'	17 19 1P -54 50.3		
	: 33.0mm	: 8.0mm			
A.13461					
1	15 43 40	-29 4.3	-29 11976		
	15 43 40	-29 4.4	-2P 11604		
N.b.C.6000	15 43 40	-29 4.4	15 42 43 -29 10.1	15 49 50	-29 22.8
	Δα: 91"	Δδ: 14.4'	15 44 14 -2P 55.7		
	: 19.5mm	: 15.4mm			
12	15 55 0P	-2A 13.1	-2P 11781		
	15 55 0A	-2A 13.1	-2P 11801		
	15 55 -P	-2P 13.1	15 54 39 -2P 33.3	16 1 18	-28 30.1
	Δα: 74"	Δδ: 27.6'	15 55 53 -2P 5.7		
	: 13.4mm	: 27.1mm			
14	16 1 45	-27 24.A	-27 10778		
	16 1 45	-27 24.P	-27 11819		
	16 1 45	-27 24.P	16 0 49 -27 27.5	16 7 53	-27 41.2
	Δα: 176"	Δδ: 6.3'	16 3 45 -27 21.2		
	: 39.0mm	: 6.1mm			
16	16 0 4	-29 0.6	-29 12259		
	16 0 4	-29 0.6	-2P 11874		
	16 0 4	-29 0.6	15 59 27 -29 9.3	16 6 17	-29 17.2
	Δα: 56"	Δδ: 21.7'	16 0 23 -2P 47.6		
	: 12.0mm	: 21.2mm			

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1930phae.proj.232PM

1930 Feb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
17	15 54 53	-29 03.4	-29 12193		
	15 54 54	-29 3.4	-29 11955		
	15 54 54	-29 3.4	15 55 51 -29 25.7	16 1 6	-29 20.6
	Δα: 147"	Δδ: 43.7'	15 53 24 -29 42.0		
	: 33.1mm	: 43.7mm			
20	15 54 47	-31 19.0	-31 12492		
	15 54 49	-31 19.1	-31 12460		
	15 54 47	-31 19.0	15 56 34 -31 35.7	16 1 5	-31 36.6
	Δα: 136"	Δδ: 17.7'	15 54 17 -31 17.9		
	: 25.7mm	: 202mm			
20a	15 55 2	-31 26.0			
	15 55 0	-31 26.1			
	15 55 1	-31 26.0		16 1 18	-31 43.6
21	15 53 27	-31 43.4	-31 12457		
	15 53 27	-31 43.4	-31 12424		
	15 53 27	-31 43.4	15 54 13 -31 49.0	15 59 45	-32 1.0
	Δα: 105"	Δδ: 7.2'	15 51 35 -31 40.7		
	: 34.1mm	: 7.8mm			
23	16 9 29	-29 32.9	-29 12404		
	16 9 29	-29 32.7	-29 12388		
	16 9 29	-29 32.8	16 9 44 -29 46.7	16 15 43	-29 48.4
	Δα: 27"	Δδ: 17.6'	16 9 17 -29 29.1		
	: 19.1mm	: 18.4mm			

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1996phae.proj..282B

A·13461

Mch.	α	δ	Comparisons	Positions in 2000 α	δ
.c	16 4 17	-2 43.8	-2 11938		
	16 4 17	-2 43.9	-2 11900		
0.6	16 4 17	-2 43.8	16 4 10 -29 1.0	16 10 28	-28 59.6
	Δα: 10.2″	Δδ: 26.0′	16 2 24 -2 35.0		
	= 22.6mm	= 26.1mm			
d	16 3 49	-2 54.3			
	16 3 51	-2 54.4			
6.6	16 3 50	-2 54.4		16 10 1	-29 14.2
m	15 51 42	-30 14.4	-30 12683		
	15 51 42	-30 14.3	-30 12696		
	15 51 42	-30 14.4	15 51 3 -30 29.4	15 57 56	-30 32.0
.6	Δα: 45″	Δδ: 19.0′	15 51 48 -30 10.4		
	: 9.2mm	: 19.9mm			
g	16 4 56	-30 4.6	-30 12902		
	16 4 56	-30 4.6	-29 12362		
1.0	16 4 56	-30 4.6	16 4 8 -30 16.4	16 11 12	-30 21.6
	Δα: 13.7″	Δδ: 23.1′	16 6 25 -29 53.3		
	: 29.9mm	: 22.4mm			
8.4					

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1930phae.proj.231PM

158 A.GP52

Feb.

	α	δ	Comp. Star	Positions in 2000 α	Positions in 2000 δ
2	1P 34 43	-49 24.P	-49 10676		
	1P 34 43	-49 24.P	-49 10719		
	1P 34 43	-49 24.P	1P 30 54 -49 32.1	18 42 23	-49 20.0
	Δα: 401"	Δδ: 26.7'	1P 39 35 -49 5.4		
	: 66mm.	: 26.7mm			
4	1P 41 45	-4P 53.3	-49 10719		
	1P 41 45	-4P 53.3	-4P 9961		
	1P 41 45	-4P 53.3	1P 39 35 -49 5.4	18 49 21	-48 47.3
	Δα: 322"	Δδ: 35.9'	1P 42 57 -4P 29.5		
	: 54.1mm.	: 34.9mm.			
11	1P 31 59	-45 55.2	-46 941P		
	1P 31 59	-45 55.2	-45 939P		
	1P 31 59	-45 55.2	1P 32 20 -46 32.1	18 39 21	-45 50.2
	Δα: 15"	Δδ: 41.9'	1P 32 5 -45 50.2		
	: 2.9mm	: 44.2mm			
12	1P 31 39	-46 4P.9	-47 P961		
	1P 31 39	-46 4P.9	-46 941P		
	1P 31 39	-46 4P.9	1P 29 55 -47 9.3	18 39 6	-46 44.5
	Δα: 155"	Δδ: 37.2'	1P 32 20 -46 32.1		
	: 19.1	: 35.4mm			
13	1P 26 39	-45 31.9	-45 9336		
may prov. star but would do no better	1P 26 39	-45 30.3	-45 9398		
	1P 26 39	-45 31.1	1P 25 50 -45 52.1		
	Δα: 375"	Δδ: 1.9'	1P 32 5 -45 50.2		
	: 78.1mm	: .4mm			

star

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1936phae.proj.232PM

A. 6F52, 6F51

Feb	α	δ	Comp. Stars	Positions in 2000 α	δ
15	18 26 52	−46 51.8	−47 8907		
	18 26 58	−46 51.7	−46 9384		
0.0	18 26 55	−46 51.8	18 23 50 −47 22.8	18 34 22	−46 48.2
	Δα: 220″	Δδ: 35.0′	18 27 36 −46 41.8		
	= 36.2mm.	= 39.9mm.			
16	18 23 10	−47 30.9	−47 8908		
	18 23 09	−47 30.8	−47 8894		
7.3	18 23 10	−47 30.8	18 23 52 −47 53.2	18 30 43	−47 27.4
	Δα: 47″	Δδ: 36.1′	18 22 25 −47 17.1		
	= 12.2mm.	= 36.3mm.			
18	18 16 11	−46 41.4	−47 8840		
	18 16 11	−46 44.4	−46 9289		
0.6	18 16 11	−46 41.4	18 14 47 −47 13.4	18 19 39	−46 39.0
	Δα: 137″	Δδ: 73.1′	18 17 4 −46 0.3		
	= 23.2mm.	= 75.4mm.			
A. 6F51					
2	18 18 29	−50 45.8	−50 10671		
	18 18 30	−50 45.8	−50 10661		
4.5	18 18 30	−50 45.8	18 18 32 −50 59.0	18 26 19	−50 43.0
	Δα: 66″	Δδ: 19.5′	18 17 21 −50 39.5		
	= 3.8mm.	= 19.0mm.			
4	18 16 37	−51 44.2	−51 10834		
	18 16 37	−51 44.2	−51 10847		
	18 16 37	−51 44.2	18 15 52 −51 47.5	18 24 32	−51 41.8
	Δα: 77″	Δδ: 4.4′	18 17 9 −51 43.1		
	= 12.5mm.	= 4.1mm.			

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1930phae.proj.232sm

Feb.	α	δ	Comp. stars	Positions in 2000 α	δ
3	1P 19 31	-51 36.3	-51 10P47		
	1P 19 31	-51 36.2	-51 10P69		
	1P 19 31	-51 36.2	1P 17 9 -51 43.1	18 27 26	-51 33.4
	Δα: 197"	Δδ: 13.8'	1P 20 6 -51 29.3		
	= 28.0 mm	= 12.1 mm			
5	1P 24 0	-51 47.0	-51 11776		
	1P 24 0	-51 46.9	-51 10909		
	1P 24 0	-51 47.0	1P 22 40 -51 51.0	18 31 54	-51 43.6
	Δα: 124"	Δδ: 10.9'	1P 24 4P -51 40.1		
	= 10.9 mm	= 21.0 mm			
7	1P 20 51	-52 57.4	-53 9159		
	1P 20 50	-52 57.4	-52 11113		
	1P 20 50	-52 57.4	1P 21 15 -53 2.8	18 28 58	-52 54.2
	Δα: 73"	Δδ: 20.4'	1P 20 2 -52 4P4		
	= 9.2 mm	= 21.7 mm			
8	1P 15 22	-53 53.1	-54 8861		
	1P 15 22	-53 53.1	-53 9082		
	1P 15 22	-53 53.1	1P 16 26 -53 59.7	18 23 30	-53 50.7
	Δα: 120"	Δδ: 12.9'	1P 14 26 -53 46P		
	= 17.0 mm	= 14.1 mm			
12	1P 9 0	-49 50.1	-50 10611		
	1P 9 0	-49 50.2	-49 10498		
	1P 9 0	-49 50.2	1P 10 2 -50 13.0	18 16 44	-49 49.0
	Δα: 89"	Δδ: 29.5'	1P P 33 -49 43.5		
	= 13.1 mm	= 30.9 mm			

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1936phae.proj..232SW

A-6P51

Neb.	α	δ	Comp Stars	Positions in 2000.0 α	Positions in 2000.0 δ
1	18 8 54	-54 35.9	-54 8797		
	18 8 54	-54 35.7	-54 8784		
	18 8 54	-54 35.8	18 9 1 -54 36.7	18 17 10	-54 34.2
	Δα: 121"	Δδ: 13.3'	18 7 0 -54 23.4		
	= 18.0mm	= 14.1mm			
11	18 10 21	-50 41.5	-50 10642		
	18 10 21	-50 41.5	-50 10611		
	18 10 21	-50 41.5	18 15 1 -50 55.6	18 18 10	-50 39.9
	Δα: 299"	Δδ: 42.6'	18 10 2 -50 13.0		
	= 46.0mm	= 45.2mm			
14	18 12 39	-52 57.7	-53 9061		
	18 12 39	-52 57.8	-52 11073		
	18 12 39	-52 57.8	18 12 14 -53 5.6	18 20 40	-52 56.0
	Δα: 58"	Δδ: 13.9'	18 13 12 -52 51.7		
	= 9.2mm	= 14.0mm			

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1930phae.proj.2325M

162 A.3092 (with W.J.L., S.A.)

Nob.	α	δ	Comp.-Stars	Positions 1950 α	Positions 1950 δ
1	13 59 56	+21 35.1	+21 2601		
defect.	13 59 57	+21 35.1	+21 2603		
	13 59 56	+21 30.1	13 58 44 +21 30.2	14 5 30	+21 6.3
	Δα: 98″	Δδ: 10.8′	14 0 22 +21 41.0		
	= 22.6 mm	= 11.6 mm			
5	14 2 29	+19 42.6	+19 2795		
defect	14 2 29	+19 42.6	+20 2925		
	14 2 29	+19 42.6	14 1 41 +19 20.7	14 8 38	+19 13.9
	Δα: 73″	Δδ: 31.7	14 2 54 +19 52.4		
	= 18.1 mm	= 33.3 mm			
9	13 57 53	+18 8.7	+18 2819		
	13 57 53	+18 0.8	+19 2745		
	13 57 53	+18 0.8	13 58 39 +18 46.0	14 3 22	+18 3.8
	Δα: 110″	Δδ: 32.9′	13 56 49 +19 18.9		
	= 26.0 mm	= 33.4 mm			
10	13 57 8	+18 54.1			
defect	13 57 8	+18 54.1			
	13 57 8	+18 54.1		14 2 38	+18 25.1
7	14 1 5	+18 10.9	+18 2825		
	14 1 5	+18 11.0	+18 2818		
defect	14 1 5	+18 11.0	14 2 7 +17 57.5	14 6 34	+17 42.2
	Δα: 108″	Δδ: 17.6′	14 0 19 +18 15.1		
	= 26.0 mm	= 12.1 mm			

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1930phae.proj.2222M

A 3092

Neb.	h	m	α			δ			Comp. Stars						Positions in 2000 α			δ		
15	14	0	16	+17	3.5				+17 2690'											
	14	0	16	+17	3.6				+17 2701											
	14	0	16	+17	3.6				13 5P 21			+16	49.8		14	5	44	+16	34.7
	Δα: 199"			Δδ: 20.7'					14 1 40			+17	10.5							
	: 47.2mm			: 20.6mm																
20	14	5	51	+17	46.6				+17 2713											
	14	5	51	+17	46.6				+1P 2P30											
	14	5	51	+17	46.6				14 7 11			+17	35.P		14	11	21	+17	18.1
	Δα: 192"			Δδ: 30.5'					14 3 57			+1P	6.3							
	: 46.1mm			: 31.1mm																
22	14	6	33	+17	5P.3															
	14	6	33	+17	5P.3															
	14	6	33	+17	5P.3										14	12	2	+17	29.9
16	14	5	2P	+17	5P.6															
defect	14	5	2P	+17	5P.6															
	14	5	2P	+17	5P.6										14	10	57	+17	30.1
17	14	5	12	+1P	1.2				this is not N.G.C. 5490 -											
	14	5	12	+1P	1.2				N.G.C. 5490 is south, 2' preceding.											
	14	5	12	+1P	1.2				A Jones.											
															14	10	41	+17	32.7
18	14	5	22	+1P	5.0															
	14	5	22	+1P	5.0															
	14	5	22	+1P	5.0										14	10	51	+17	36.5

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1930phae.proj.2347SM

Neb	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
59	14 7 55	+18 36.6	+18 2737		
defect	14 7 55	+18 36.6	+19 2767		
	14 7 55	+18 36.6	14 6 19 +18 32.8	14 13 25	+18 8.3
	Δα = 110″	Δδ = 15.2′	14 8 9 +18 48.0		
	= 27.1mm	= 15.9mm			
3	14 7 33	+18 46.0			
	14 7 33	+18 46.0			
	14 7 33	+18 46.0		14 13 3	+18 17.7
56	14 8 34	+18 44.8	+18 2744		
defect	14 8 34	+18 44.9	+19 2769		
	14 8 34	+18 44.8	14 8 47 +18 37.8	14 14 5	+18 16.5
	Δα: 38″	Δδ: 10.2′	14 8 9 +18 48.0		
	: 8.8mm	: 10.1mm			
34	14 8 5	+18 10.9	+18 2742		
defect	14 8 5	+18 10.9	+18 2740		
	14 8 5	+18 10.9	14 8 43 +18 0.3	14 13 36	+17 42.8
	Δα: 72″	Δδ: 30.8′	14 7 31 +18 31.1		
	= 17.0mm	= 31.2mm			
33	14 9 52	+18 10.7	+18 2742		
defect	14 9 52	+18 10.7	+19 2783		
	14 9 52	+18 10.9	14 8 43 +18 0.3	14 15 23	+17 42.6
	Δα: 211″	Δδ: 48.6′	14 12 14 +18 48.9		
	= 50.1mm	= 48.6mm			

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1930phae.proj.2225M

A.3092

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
5P	14 10 04	+18 27.P			
(Rejected as	14 10 04	+18 27.P			
a defect. A.A.)	14 10 4	+18 27.P		14 15 35	+17 59.7
57	14 10 33	+18 35.9			
	14 10 33	+18 35.9			
	14 10 33	+18 35.9		14 16 4	+18 7.8
32	14 9 26	+19 4P.1	+19 276P		
	14 9 26	+19 4P.0	+20 294P		
	14 9 26	+19 4P.0	14 9 4 +19 38.P	14 14 59	+19 19.8
	Δα: 75"	Δδ: 2P.0'	14 10 19 +20 6.8		
	= 17.2mm.	= 2P.1mm			
25	14 6 50	+19 3P.0	+19 276P		
I.C. (1)	14 6 50	+19 3P.0	+20 293P		
987	14 6 50	+19 3P.0	14 7 1P +19 24.2	14 12 22	+19 9.6
	Δα: P0"	Δδ: 25.5'	14 5 5P +19 49.7		
	= 17.7mm.	= 25.2mm.			
24	14 6 07	+19 12.5	+19 275P		
	14 6 09	+19 12.6	+19 276P		
	14 6 7	+19 12.6	14 4 25 +19 3.7	14 11 38	+18 44.2
	Δα: 173"	Δδ: 20.5'	14 7 1P +19 24.2		
	= 40.9mm.	= 21.0mm			

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1930phae.proj.23:PM

Neb.	α	δ	Comparison		Positions in 2000
14	14 4 18	+18 54.4	+18 28 32		
(Double	14 4 18	+18 54.4	+19 27 58		
Star A.A.)	14 4 18	+18 54.4	14 4 29	+18 39.0	14 9 49 +18 25.8
	Δα: 44″	Δδ: 40.8′	14 3 45	+19 19.8	
	= 18.1mm	= 41.4mm			
33	14 10 4	+21 9.2	+21 26 31		
	14 10 4	+21 9.2	+21 26 28		
	14 10 4	+21 9.2	14 10 39	+20 58.9	14 15 40 +20 41.1
	Δα: 91″	Δδ: 20.9′	14 9 6	+21 19.8	
	= 22.0mm	= 20.9mm			
13	14 6 58	+21 50.6	+21 26 24		
	14 6 58	+21 50.5	+22 26 32		
	14 6 58	+21 50.6	14 7 30	+21 34.5	14 12 33 +21 22.2
	Δα: 59″	Δδ: 42.1′	14 6 33	+22 16.6	
	= 8.8mm	= 42.2mm			
29	14 5 9	+21 59.4	+22 26 58		
defect	14 5 9	+21 59.5	+22 26 32		
	14 5 9	+21 59.4	14 4 9	+21 53.8	14 10 44 +21 31.0
	Δα: 144″	Δδ: 22.8′	14 6 33	+22 16.6	
	= 38.8mm	= 22.7mm			
30	14 11 21	+21 57.7	+21 26 33		
	14 11 21	+21 59.8	+22 26 50		
	14 11 21	+21 57.8	14 11 54	+21 33.1	14 16 57 +21 29.8
(rejected as	Δα: 58″	Δδ: 28.8′	14 10 56	+22 1.9	
defect.	= 13.8mm	= 30.6mm			
A.A.)					

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	Neb.	α	δ	Comp. Stars	Positions in 2000 α			δ	
	36	14 16 89	+22 23.5'	+22 2682					
		14 16 09	+22 23.5'	+22 2692					
25.8		14 16 9	+22 23.5'	14 13 40 +22 0.6	14	21	47	+21	55.9
		Δα: 2.85"	Δδ: 26.5'	14 18 25 +22 27.1					
		= 66 mm	= 27.5 mm						
	37	14 15 58	+20 54.2	+20 2972					
		14 15 58	+20 54.2	+21 2641					
31.1		14 15 58	+20 54.2	14 17 29 +20 42.9	14	21	34	+20	26.5
		Δα: 140"	Δδ: 31.1'	14 15 9 +21 14.0					
		= 33.4 mm	= 30.9 mm						
	44	14 18 30	+21 10.6	+21 2643					
		14 18 31	+21 10.6	+21 2647					
22		14 18 30	+21 10.6	14 17 56 +20 58.6	14	24	7	+20	43.1
		Δα: 94"	Δδ: 39.8'	14 19 30 +21 37.4					
		= 21.3 mm	= 39.2 mm						
	42	14 16 14	+17 59.5	+18 2866					
		14 16 14	+17 59.4	+18 2857					
31.0		14 16 14	+17 59.4	14 17 8 +17 54.4	14	21	46	+17	31.8
		Δα: 286"	Δδ: 28.8'	14 12 22 +18 23.2					
		= 68.9 mm	= 27.8 mm						
	41	14 16 6	+18 6.9						
	I.C. 1004	14 16 6	+18 6.9						
29.8		14 16 6	+18 6.9		14	21	38	+17	39.2

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Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
40	14 15 41	+18 12.9	+18 2866		
defect	14 15 40	+18 12.9	+18 2857		
	14 15 40	+18 12.9	14 17 8 +17 54.4	14 21 12	+17 45.2
	Δα: 2P6"	Δδ: 2P.Amm	14 12 22 +18 23.2		
	= 6P.9mm	= 27.Amm			
50	14 15 8	+18 17.9			
	14 15 8	+18 17.9			
	14 15 8	+18 17.9		14 20 40	+17 50.2
49	14 14 56	+18 19.0			
I.C.1000	14 14 57	+18 19.0			
	14 14 56	+18 19.0		14 20 28	+17 51.3
48	14 14 50	+18 20.2			
I.C. 999	14 14 50	+18 20.2			
	14 14 50	+18 20.2		14 20 22	+17 52.5
46	14 17 30	+17 50.5	+17 2731		
	14 17 30	+17 50.3	+18 2866		
Freeth in A.6763	14 17 30	+17 50.5	14 18 19 +17 33.9	14 23 1	+17 23.1
I.C. 4410	Δα: 71"	Δδ: 20.5'	14 17 8 +17 54.4		
	= 17.1mm	= 21.2mm			
27 =					
N.G.C. 5492					

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1930phae.proj.2021SM

A 4184

	Nch.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
000	~~3~~	3 29 10	-5P 23.5	-5P 28P		
		3 29 10	-5P 23.5	-5P 29P		
5.2		~~3 29 10~~	~~-5P 23.5~~ ✓	3 2P 24 -5P 2P.1	3 31 26	-58 3.1
		Δα: 14P"	Δδ: 11.4'	3 30 52 -5P 16.7		
		= 18.5mm.	= 12.9mm			
	~~3~~	3 2P 3	-5P 4.6	-5P 2P7		
		3 2P 3	-5P 4.6	-5P 296		
0.2		~~3 2P 3~~	~~-5P 4.6~~ ✓	3 27 40 -58 8.6	3 30 19	-57 43.8
		Δα: 235"	Δδ: 11.3'	3 31 35 -57 57.3		
		= 30.5mm	= 13.4mm			
51.3	~~8~~	3 30 14	-57 58.3			
		3 30 14	-57 58.3			
		~~3 30 14~~	~~-57 58.3~~ ✓		3 32 34	-57 38.1
2.5	✓9	3 31 32	-5P 9.1	-5P 294		
		3 31 32	-5P 9.2	-5P 304		
		3 31 32	-5P 9.2 ✓	3 30 52 -5P 16.7	3 33 48 ✓	-57 48.8 ✓
		Δα: 313"	Δδ: 18.7'	3 36 5 -57 58.0		
23.1H		= 40.9	= 21.0mm.			
	✓10	3 32 18	-5P 9.9			
		3 32 18	-57 9.9			
		3 ~~37~~ 2 ~~18~~ 6	-58 9.9 ✓		3 34 ~~37~~ 3 ✓	-57 49.9 ✓
	✓25	3 33 49	-58 8.2			
		3 33 49	-58 8.2			
		3 33 49	-58 8.2 ✓		3 36 1 ✓	-57 48.2 ✓

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1930phae.proj.232PM

170 AH184

Nob.	α	δ	Comp. Stars	Positions in 2000 α	δ
~~14~~	3 34 27	-57 58.6	-58 294		
	3 34 27	-57 58.0	-58 304		
	~~3 34 27~~	~~-57 58.0~~ ✓	3 30 52 -58 16.7	3 36 47	-57 38.0
	Δα: 313"	Δδ: 18.7'	3 36 5 -57 58.0		
	= 40.9 mm	= 21.0 mm			
~~28 a~~	3 31 22	-58 17.0	-58 306		
	3 36 21	-58 16.9	-58 304		
	~~3 36 22~~	~~-58 17.0~~ ✓	3 37 46 -58 20.2	3 38 30	-57 57.4
	Δα: 101"	Δδ: 22.2'	3 36 5 -57 58.0		
	= 14.1 mm	= 22.1 mm			
~~12~~	3 31 43	-57 53.0	-58 296		
	3 31 43	-57 53.0	-57 555		
	~~3 31 43~~	~~-57 53.0~~ ✓	3 31 35 -57 57.3	3 34 3	-57 33.0
	Δα: 66"	Δδ: 30.3'	3 32 41 -57 27.0		
	= 7.0 mm	= 30.9 mm			
~~13~~	3 32 22	-57 52.0			
	3 32 22	-57 52.0			
	~~3 32 22~~	~~-57 52.0~~ ✓		3 34 42	-57 52.0
✓ a	3 32 13	-57 27.4			
	3 32 13	-57 27.4			
	3 32 13	-57 27.4 ✓		3 34 33 ✓	-57 7.4 ✓
✓ 28 b	3 36 22	-58 16.9	-58 306		
	3 36 21	-58 16.8	-58 304		
	3 36 22	-58 16.8	3 37 46 -58 20.2	3 38 34 ✓	-57 57.2 56.0
			3 36 5 -57 58.0		

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1936phae.proj.2323M

A.H164

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
~~17~~	3 33 57	-57 49.9	-58 314		
	3 33 57	-57 49.9	-57 555		
8.0	~~3 33 57~~	~~-57 49.9~~ ✓	3 36 5 -57 58.0	3 36 17	-57 29.9
	Δα: 20.4"	Δδ: 31.0"	3 32 41 -57 27.0		
	= 28.9mm	= 29.7mm			
~~18~~	3 33 54	-57 46.0			
	3 33 54	-57 46.0			
7.4	~~3 33 54~~	~~-57 46.0~~ ✓		3 36 14	-57 26.0
✓19	3 34 25	-57 40.8			
	3 34 25	-57 40.8			
	3 34 25	-57 40.8 ✓		3 36 45	-57 21.2
3.0					
✓20	3 35 39	-57 45.7			
	3 35 39	-57 45.7			
	3 35 39	-57 45.7 ✓		3 37 59	-57 26.1
✓31	3 39 16	-57 55.7	-58 309		
	3 39 16	-57 55.7	-57 563		
2.0	3 39 16	-57 55.7 ✓	3 41 54 -58 0.5	3 41 32	-57 36.5
	Δα: 32.7"	Δδ: 47.2'	3 35 27 -57 13.3		
	= 45.9mm	= 46.0mm			
✓					
1.4					
✓					
57.2					
6.0					

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1930phae.proj.231PM

172 A41P4

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
✓41	3 38 1	-57 19.9	-58 309		
	3 38 1	-57 19.8	-57 563		
	3 38 1	-57 19.8	3 40 54 -58 0.5	3 40 17	-57 0.6
	Δα: 327"	Δδ: 47.2'	3 35 27 -57 13.3		
	= 45.9 mm.	= 46.0 mm.			
117	3 39 57	-58 32.8	-58 308		
	3 39 57	-58 32.8	-58 306		
not a neb.	3 39 57	-58 32.8	3 40 19 -58 44.0		
	Δα: 153"	Δδ: 23.8'	3 37 46 -58 20.2		
	= 20.9 mm.	= 23.1 mm.			
✓119	3 44 43	-58 39.8	-58 317		
	3 44 43	-58 39.7	-58 309		
	3 44 43	-58 39.8	3 47 11 -58 44.5	3 46 50	-58 21.0
	Δα: 377"	Δδ: 44.0'	3 40 54 -58 0.5		
	= 50.1 mm.	= 43.9 mm.			
✓2	3 39 32	-59 31.7	-59 290		
	3 39 31	-59 31.7	-59 289		
	3 39 32	-59 31.7	3 43 26 -59 33.7	3 41 32	-59 12.5
	Δα: 118"	Δδ: 13.8'	3 41 28 -59 19.9		
	= 15.2 mm.	= 13.3 mm.			
✓121	3 46 57	-59 03.8	-59 290		
	3 46 57	-59 3.6	-58 317		
	3 46 57	-59 3.7	3 43 26 -59 33.7	3 48 54	-58 45.3
	Δα: 225"	Δδ: 49.2'	3 47 11 -58 44.5		
	= 28.9 mm.	= 49.5 mm.			

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1930phae.proj.2328M

A·4164

Neb.	α	δ	Comp. stars	Positions in 2000 α	δ
✓ 120	3 46 57	−58 59.8			
	3 46 57	−58 59.7			
	3 46 57	−58 59.8		3 49 1	−58 41.4
123	3 46 10	−58 15.5	−58 319		
	3 46 10	−58 15.5	−58 314		
defect	3 46 10	−58 15.5	3 47 11 −58 44.5		
	Δα: 91″	Δδ: 44.4′	3 45 40 −58 0.1		
	= 11.9 mm	= 44.9 mm			
✓ 122	3 46 21	−58 14.1			
	3 46 21	−58 14.1			
	3 46 21	−58 14.1		3 48 26	−57 55.7
✓ 124	3 48 31	−58 7.2	−58 323		
	3 48 31	−58 7.2	−58 314		
	3 48 31	−58 7.2	3 52 10 −58 31.6	3 50 35	−57 48.8
	Δα: 390″	Δδ: 31.0′	3 45 40 −58 0.1		
	= 51.1 mm	= 32.2 mm			
✓ 125	3 47 51	−57 53.5	−58 314		
	3 47 51	−57 53.6	−57 599		
	3 47 51	−57 53.6	3 45 40 −58 0.1	3 50 3	−57 35.1
	Δα: 630″	Δδ: 15.4′	3 54 30 −57 44.7		
	= 70.8 mm	= 14.7 mm			
✓ 126	3 48 02	−57 50.9			
	3 48 02	−57 50.9			
	3 48 2	−57 50.9		3 50 14	−57 32.5

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1930phae.proj.2324M

174 A 4184

Neb.	α	δ	Comp. Star	Position 1900 α	Position 1900 δ
✓127	3 49 13	-57 50.7	-58 314		
	3 49 13	-57 50.7	-57 599		
	3 49 13	-57 50.7 ✓	3 46 40 -57 0.1	3 51 25	-57 32.7 ✓
	Δα = 530″	Δδ = 15.4′	3 54 30 -57 44.7		
	= 70.6	= 14.7 mm			
~~51~~	3 35 14	-57 4.3	-57 563		
	3 35 14	-57 4.3	-56 550		
	~~3 35 14 -57 4.3~~ ✓		3 35 27 -57 13.3	3 37 30	-56 44.7
	Δα = 240″	Δδ = 36.8′	3 31 27 -56 36.5		
	= 34.9 mm	= 36.8 mm			
42	3 31 40	-57 4.3			
	3 31 40	-57 4.3			
defect	3 31 40	-57 4.3			
~~8~~	3 32 8	-57 1.3			
	3 32 8	-57 1.3			
	~~3 32 8 -57 1.3~~ ✓			3 34 28	-56 41.3
				~~49~~	
~~48~~	3 31 54	-56 49.3		B.H.	
	3 31 54	-56 49.3		3	43
	~~3 31 54 -56 49.3~~ ✓			~~3 35 43~~	
				~~3 34 22~~	~~-56 29.3~~
~~49~~	3 35 52	-56 58.2	-57 563	Dec.	
	3 35 52	-56 58.2	-56 566	-56	57.7
	~~3 35 52 -56 58.2~~ ✓		3 35 27 -57 13.3	~~-56~~	~~57.7~~
	Δα = 158″	Δδ = 20.7′	3 38 5 -56 52.6	3 38 16	-56 38.6
	= 20.9 mm	= 22.1 mm			

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1936phae.proj.23239M

A. 4124

Neb.	α	δ	Comp. Stars	Positions in 2000
~~115~~	3 37 47	-56 58.3		
	3 37 47	-56 58.3		
	3 37 47	-56 58.3 ✓		3 40 7 -56 38.1
~~116~~	3 39 9	-57 6.4	-57 56P	
	3 39 9	-57 6.4	-56 56.6	
	3 39 9	-57 6.4 ✓	3 41 59 -57 P.3	3 41 25 -56 47.2
	Δα = 234"	Δδ = 15.7'	3 38 5 -56 52.6	
	= 32.5 mm.	= 10.1 mm.		
✓114	3 39 10	-57 1.5		
	3 39 10	-57 1.4		
	3 39 10	-57 1.4 ✓		3 41 26 -56 42.2
✓116	3 38 46	-57 11.1	-57 56.3	
	3 38 46	-57 11.1	-57 56P	
	3 38 46	-57 11.1 ✓	3 35 27 -57 13.3	3 41 2 -56 51.9
	Δα = 292"	Δδ = 5.0'	3 41 59 -57 P.3	
	= 53.2 mm.	= 6.9 mm.		
~~P1.~~	3 38 5	-56 43.0	-56 56.6	
	3 38 5	-56 43.0	-56 56.0	
	3 38 5	-56 43.0	3 38 5 -56 52.6	3 40 25 -56 23.4
	Δα = 398"	Δδ = 16.1'	3 31 27 -56 36.5	
	= 55.9 mm.	= 14.9 mm.		
~~2~~	3 36 39	-56 50.2		
	3 36 39	-56 50.3		
	3 36 39	-56 50.2 ✓		3 39 1 -56 30.6

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1930phae.proj.234PM

176 A.4184

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
~~52~~	3 36 24	-56 46.9	-56 56.6		
	3 36 24	-56 46.9	-56 55.0		
	~~3 36 24~~	~~-56 46.9~~ ✓	3 38 5 -56 52.6	~~3 38 48~~	~~-56 27.3~~
	Δα: 39.8"	Δδ: 16.1'	3 31 27 -56 36.5		
	= 55.9 mm	= 14.9 mm			
~~55~~	3 37 5	-56 40.5			
	3 37 5	-56 40.5			
	~~3 37 5~~	~~-56 40.5~~ ✓		3 39 29	-56 20.9
✓ 54	3 36 22	-56 37.8			
	3 36 21	-56 37.8			
	3 36 22	-56 37.8 ✓		3 38 46 ✓	-56 18.2 ✓
~~44~~	3 33 42	-56 40.0			
	3 33 42	-56 40.0			
	~~3 33 42~~	~~-56 40.0~~ ✓		~~3 36 6~~	~~-56 20.0~~
~~48~~	3 35 35	-56 48.7			
	3 35 35	-56 48.8			
	~~3 35 35~~	~~-56 48.8~~ ✓		3 37 59	-56 29.2
~~103~~	3 41 59	-57 4.0	-57 56.8		
	3 41 59	-57 4.0	-56 55.4		
	~~3 41 59~~	~~-57 4.0~~ ✓	3 41 59 -57 4.2	~~3 44 15~~	~~-56 45.2~~
	Δα: 5.07"	Δδ: 45.5'	3 33 32 -56 22.8		
	= 71.8 mm	= 43.2 mm			

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1936phae.proj.23:3M

A. 4184

Neb.	α			δ		Comp. Stars	Positions in 2000 α			δ	
✓A4	3	41	9	-56	58.4						
	3	41	9	-56	52.4			✓		✓3	
	3	41	9	-56	58.4✓		3	43	29	-56	39.7
✓A6	3	41	10	-56	48.0						
	3	41	9	-56	48.0					✓9	
	3	41	9	-56	48.0✓			✓			
✓A5	3	40	13	-56	46.1		3	43	29	-56	28.8
	3	40	12	-56	46.1						
	3	40	12	-56	46.1✓			✓		✓	
							3	42	32	-56	26.9
~~A7~~	3	36	56	-56	34.3						
	3	36	55	-56	34.3						
	~~3~~	~~36~~	~~56~~	~~-56~~	~~34.3~~✓		~~3~~	~~39~~	~~20~~	~~-56~~	~~14.7~~
~~A6~~	3	34	56	-56	35.7						
	3	34	57	-56	35.8						
	~~3~~	~~34~~	~~56~~	~~-56~~	~~35.8~~✓		~~3~~	~~37~~	~~20~~	~~-56~~	~~18.8~~
59	~~3~~	~~34~~	~~3~~	~~-56~~	~~11.6~~	-56 55.0					
star	3	34	3	-56	11.6	-55 55.1					
	~~3~~	34	3	-56	11.6✓	3 31 27. -56 36.5					
	Δα: 229″			Δδ: 53.3		3 35 16 -55 43.2					
	: 29.6mm			: 54.0mm							
✓1	3	34	26	-55	57.4						
	3	34	26	-55	57.4					✓5	
	3	34	26	-55	57.4✓			✓			
							3	36	58	-55	37.4
									7		

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1930phae.proj.231PM

178 A.4124

Neb.	α	δ	Comp. Star	Positions in 2000 α	δ
~~c~~	3 33 48	-55 52.0	-56 550		
	3 33 49	-55 52.0	-55 551		
	~~3 33 48~~	~~-55 52.0~~ ✓	3 31 27 -56 36.5	3 36 20	-55 32.0
	Δα: 229"	Δδ: 53.3'	3 35 16 -55 43.2		
	: 29.6mm	: 54.0mm			
✓98-b	3 35 41	-55 55.4	-56 566		
	3 35 41	-55 55.4	-55 551		
	3 35 41	-55 55.4 ✓	3 37 47 -56 20.5	3 38 ~~9~~ ✓ 10	-55 35.8 ✓
	Δα: 151"	Δδ: 42.3'	3 35 16 -55 43.2		
	: 23.0mm	: 41.9mm			
~~95~~	3 42 12	-56 40.6	-56 582		
	3 42 12	-56 40.6	-55 551		
	~~3 42 12~~	~~-56 40.6~~ ✓	3 45 50 -56 41.2	3 44 32	-56 21.8
	Δα: 634"	Δδ: 63.0'	3 35 16 -55 43.2		
	: 90.2mm	: 61.1mm			
✓94	3 41 37	-56 34.5			
	3 41 37	-56 34.5		✓ 56	✓ 5
	3 41 37	-56 34.5 ✓		3 43 ~~57~~	-56 15.~~8~~
93 star	~~3 43 44~~	~~-56 33.4~~			
	3 43 44	-56 33.4			
	3 43 44	-56 33.4 ✓			
~~96~~	3 43 15	-56 27.8			
	3 43 15	-56 27.7			
	3 43 15	-56 27.8 ✓		3 45 35	-56 9.0

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1936phae.proj.2321M

A·4184

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
~~77~~	3 40 0	-56 25.4			
	3 40 0	-56 25.4			
	~~3 40 0~~	~~-56 25.4~~ ✓		~~3 42 20~~	~~-56 6.2~~
~~78~~	3 39 22	-56 25.5			
	3 39 23	-56 25.5			
	~~3 39 22~~	~~-56 25.5~~ ✓		~~3 41 42~~	~~-56 6.3~~
~~77~~	3 38 47	-56 24.6			
	3 38 47	-56 24.6			
	~~3 38 47~~	~~-56 24.6~~ ✓		~~3 41 7~~	~~-56 5.4~~
ε	3 32 42	-55 41.1	-55 5 51		
	3 32 42	-55 41.2	-55 5 45		
	3 32 42	-55 41.2 ✓	3 35 16 -55 43.2	3 35 14 ✓	-55 21.2 ✓
	Δα: 196″	Δδ: 24.7′	3 32 0 -55 18.5		
	= 28.9mm.	= 23.8mm.			
~~4~~	3 33 21	-55 40.0			
	3 33 21	-55 40.0			
	~~3 33 21~~	~~-55 40.0~~ ✓		~~3 35 55~~	~~-55 20.0~~
61	3 32 34	-55 25.5			
	3 32 34	-55 25.5			
	3 32 34	-55 25.5 ✓		3 35 ~~8~~ 5 ✓	-55 5.4 ✓

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1930phae.proj.232SM

Feb.

	α	δ	Comp. Stars	Positions in 2000 α	δ
✓62	3 36 48	-55 25.6	-55 55.1		
	3 36 48	-55 25.5	-55 56.5		
	3 36 48	-55 25.6 ✓	3 35 16 -55 43.2	3 39 24	-55 5.9
	Δα: 387"	Δδ: 20.8'	3 41 43 -55 22.4		
	= 54.8mm	= 22.5mm			
✓63	3 39 51	-55 20.3			
	3 39 51	-55 20.3			
	3 39 51	-55 20.3 ✓		3 42 19	-55 1.1
✓64	3 38 58	-55 26.2			
	3 38 58	-55 26.3			
	3 38 58	-55 26.2 ✓		3 41 26	-55 7.0
✓65	3 39 09	-55 28.3			
	3 39 09	-55 28.4			
	3 39 9	-55 28.4 ✓		3 41 37	-55 9.2
✓66	3 40 34	-55 34.0			
	3 40 35	-55 34.0			
	3 40 34	-55 34.0 ✓		3 43 2	-55 14.8
✓72	3 44 10	-55 42.2	-56 57.3		
	3 44 11	-55 43.1	-55 57.8		
	3 44 10	-55 43.2 ✓	3 42 18 -56 2.2	3 46 36	-55 24.6
	Δα: 519"	Δδ: 56.9'	3 50. 59 -55 5.3		
	= 73.9mm	= 57.4mm			

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1930phace.proj.232sm

A.4184

Ref.	α	δ	Comp. Stars	Positions 1 x 2000 α	δ
✓71	3 46 24	-55° 43.4			
	3 46 24	-55 43.3			24.9
	3 46 24	-55 43.4		3 48 50	-55 ~~25.5~~
~~70~~	3 46 46	-55 36.7			
	3 46 46	-55 36.6			
	~~3 46 46 -55 36.6~~			3 48 12	-55 18.2
~~69~~	3 46 04	-55 32.3			
	3 46 03	-55 32.2			
	~~3 46 4 -55 32.2~~			3 49 30	-55 13.7
~~68~~	3 44 11	-55 22.6			
	3 44 11	-55 22.5			
	~~3 44 11 -55 22.6~~			3 46 37	-55 3.9
✓67	3 43 58	-55 16.2			
	3 43 58	-55 16.2			
	3 43 58	-55 16.2		3 46 24	-54 57.5
~~54~~	3 49 23	-55 34.9			
	3 49 23	-55 34.9			
	~~3 49 23 -55 34.9~~			3 51 47	-55 16.9
✓55	3 49 33	-55 33.0			
	3 49 33	-55 33.0			
	3 49 33	-55 33.0		3 51 57	-55 15.0

15.0 ✓

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1930phae.proj.23:PM

182 A. 4184

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
✓156	3 51 13	-55 33.1	-56 573		
	3 51 13	-55 33.1	-55 576		
	3 51 13	-55 33.1 ✓	3 42 1A -56 2.2	3 53 36 ✓	-55 15.2 ✓
	Δα: 5'19"	Δδ: 56.9'	3 50 07 -55 5.3		
	= 73.9mm	= 57.4mm			
✓157	3 49 46	-55 10.8			
	3 49 46	-55 10.8			
	3 49 46	-55 10.8 ✓		3 52 10 ✓	-54 52.8 ✓
✓91	3 47 04	-56 41.7	-56 582		
	3 47 04	-56 41.7	-55 576		
	3 47 4	-56 41.7 ✓	3 45 50 -56 46.2	3 49 20 ✓	-56 23.3 ✓
	Δα: 276"	Δδ: 56.9'	3 50 26 -55 49.3		
	= 38.2mm	= 57.2mm			
✓ *	3 46 42	-56 35.4			
	3 46 42	-56 35.3			
	3 46 42	-56 35.4 ✓		3 48 58 ✓	-56 17.0 ✓
✓90	3 46 49	-56 25.1			
	3 46 50	-56 25.0			
	3 46 50	-56 25.0 ✓		3 49 6 ✓	-56 6.6 ✓
✓89	3 47 24	-56 7.2			
	3 47 24	-56 7.1			
	3 47 24	-56 7.2 ✓		3 49 40 ✓	-55 48.8 ✓

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1936phae.proj.2325w

A.41F4

Neb.	α	δ	Comp stars	Positions in 2000 α	Positions in 2000 δ
✓107	3 44 55	-57 27.2	-58 314		
= 6 (blue) in	3 44 55	-57 27.0	-57 56A		
cl. on 14299.	3 44 55	-57 27.1	3 45 40 -58 0.1	3 47 9	-57 8.7
mid this pos.	Δα: 221"	Δδ: 51.8'	3 41 59 -57 8.3		
but that mag.	= 30.5 mm	: 51.7 mm			
+ clear.					
✓108	3 43 43	-57 30.3			
= 4 (blue)	3 43 43	-57 30.2			
as for 107 above	3 43 43	-57 30.2		3 45 57	-57 11.4
~~109~~	3 43 32	-57 22.3			
	3 43 31	-57 22.2			
	~~3 43 32 -57 22.2~~			~~3 45 48 -57 3.4~~	
~~110~~	3 43 12	-57 17.3			
	3 43 11	-57 17.3			
	~~3 43 12 -57 17.3~~			3 45 28	-56 58.5
~~111~~	3 43 32	-57 20.5			
	3 43 31	-57 20.4			
	~~3 43 32 -57 20.4~~			3 45 48	-57 1.6
~~113~~	3 43 15	-57 22.3			
	3 43 15	-57 22.2			
	~~3 43 15 -57 22.2~~			3 45 31	-57 3.4
~~105~~	3 44 25	-57 16.3			
	3 44 25	-57 16.2			
	~~3 44 20 -57 16.2~~			3 46 39	-56 57.8

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1930phae.proj.23:PM

	α			δ		Comp. Stars			Positions in 2000 α	δ
~~No 7468.~~										
~~101~~	3	44	1	-57	18.3	-58	314			
	3	44	1	-57	18.2	-57	568			
	3	~~44~~	~~1~~	~~-57~~	~~18.2~~ ✓	3	45 40	-58 0.1	3 ~~46~~ 15	-56 59.4
	Δα: 221"			Δδ: 51.8'		3	41 59	-57 8.3		
	: 30.5mm			: 51.7mm						
✓ 96	3	43	55	-56	49.8		-57 568			
= 11 (blue) as	3	43	56	-56	49.8		-56 582			
for 107 on p. 183	3	43	56	-56	49.8 ✓	3	41 59	-57 2.3	3 46 14 ✓	-56 31.0 ✓
	Δα: 231"			Δδ: 22.1'		3	45 50	-56 46.2		
	: 31.7mm			: 22.8mm						
✓ 97	3	43	48	-56	52.0					
= 10 (blue) as	3	43	48	-56	52.0					
for 107 on p. 183	3	43	48	-56	52.0 ✓				3 46 6 ✓	-56 33.7 3 ✓
✓ 98 as	3	45	6	-57	7.4					
= 13 (blue) as	3	45	6	-57	7.4					
for 107 on p. 183	3	45	6	-57	7.4 ✓				3 47 20 ✓	-56 ~~49.0~~ 48.8 ✓
~~101~~	3	45	1	-57	0.7					
	3	45	1	-57	0.7					
	3	~~45~~	~~1~~	~~-57~~	~~0.7~~ ✓				3 ~~47~~ 15	-56 42.3
~~101~~	3	43	23	-57	4.3					
	3	43	23	-57	4.3					
	3	~~43~~	~~23~~	~~-57~~	~~4.3~~ ✓				3 ~~45~~ 41	-56 45.5

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A.41F4

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
✓99	3 46 39	-57 1.2	-57 581		
	3 46 39	-57 1.2	-56 582		
	3 46 39	-57 1.2 ✓	3 48 1 -57 9.5	3 48 53	-56 42.8
	Δα: 131"	Δδ: 23.3'	3 45 50 -56 46.2		
	= 17.8mm	= 24.1mm			
✓100	3 45 57	-57 4.6			
= 14 (blue) as	3 45 57	-57 4.6			
for 107 on p. 183	3 45 57	-57 4.6 ✓		3 48 11	-56 46.2
✓144	3 49 34	-56 53.3	-57 581		
	3 49 34	-56 53.2	-56 589		
	3 49 34	-56 53.2 ✓	3 48 1 -57 9.5	3 51 50	-56 35.2
	Δα: 181"	Δδ: 40.4'	3 51 2 -56 29.1		
	= 25.2mm	= 40.6mm			
✓145	3 49 42	-56 46.8			
	3 49 42	-56 46.7			
	3 49 42	-56 46.8 ✓		3 51 58	-56 28.8
✓146	3 50 46	-56 41.9			
	3 50 46	-56 41.8			
	3 50 46	-56 41.8 ✓		3 53 2	-56 23.9
✓147	3 52 15	-56 42.5	-57 598		
	3 52 16	-56 42.4	-56 589		
	3 52 16	-56 42.4 ✓	3 54 5 -56 57.3	3 54 32	-56 24.8
	Δα: 193"	Δδ: 28.2'	3 51 2 -56 29.1		
	= 24.9mm	= 28.4mm			

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1930phae.proj.231PM

186 A.4184

Obj.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
148	3 51 10	-56 11.4	-56 589		
	3 51 10	-56 11.3	-55 584		
	3 51 10	-56 11.4	3 51 2 -56 29.1	3 53 26	-55 53.8
	Δα: 208"	Δδ: 43.7'	3 54 30 -55 40.4		
	: 30.0 mm	: 43.9 mm			
150	3 53 52	-56 6.4			
	3 53 53	-56 6.3			
	3 53 52	-56 6.4		3 56 8	-55 48.8
151	3 54 11	-56 4.4			
	3 54 11	-56 4.3			
	3 54 11	-56 4.4		3 56 27	-55 46.8
152	3 51 39	-55 50.8			
	3 51 39	-55 50.7			
	3 51 39	-55 50.8		3 54 3	-55 33.1
~~153~~	3 52 32	-55 45.5			
	3 52 32	-55 45.5			
	~~3 52 32~~	~~-55 45.5~~		3 54 56	-55 27.5
154	3 53 4	-55 35.9	-55 584		
	3 53 3	-55 35.9	-55 57A		
	3 53 4	-55 35.9	3 54 30 -55 40.4	3 55 28	-55 18.3
	Δα: 213"	Δδ: 40.1'	3 50 57 -55 5.3		
	: 29.1 mm	: 41.0 mm			

All nos. here 'a' on p 195 previously checked PLM

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A·41P4

Neb.	α	δ	Comps. Stars	Positions, 2000 α	δ
15P	3 52 55	-55 15.7			
	3 52 55	-55 15.8			
	3 52 55	-55 15.8		3 55 19	-54 58.0
g	3 53 3	-55 12.2			
	3 53 3	-55 12.2			54.5
	3 53 3	-55 12.2		3 55 27	-54 55.6
~~40~~	3 57 37	-55 14.5	-55 5P6		
	3 57 37	-55 14.5	-55 594		
	~~3 57 37 -55 14.5~~	3 54 52	-55 22.6	3 59 57	-54 57.3
	Δα: 323"	Δδ: 21.2'	4 0 10	-55 1.4	
	= 47.0mm	= 19.3mm			
h	3 59 21	-55 22.2			
	3 59 21	-55 22.2			
	3 59 21	-55 22.2		4 1 41	-55 5.4
16.5	3 57 24	-55 54.4	-56 609		
	3 57 20	-55 54.3	-55 5P6		
	3 57 24	-55 54.4	3 57 54 -56 20.5	3 59 44	-55 37.2
	Δα: 182"	Δδ: 57.9'	3 54 52 -55 22.6		
	= 23.9mm	= 59.6mm			
~~44~~	3 56 44	-55 52.3			
	3 56 44	-55 52.3			
	~~3 56 44 -55 52.3~~			3 59 4	-55 35.1

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1930phae.proj.2324M

	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
~~Feb~~					
✓163	3 55 35	-55 51.6	-56 609		
	3 55 35	-55 51.5	-55 076		
	3 55 35	-55 51.6 ✓	3 57 54 -56 20.0	3 57 57	-55 34.4
	Δα = 182″	Δδ = 57.9′	3 54 52 -55 22.6		
	= 23.9 mm.	= 59.6 mm.			
162	3 57 0	-55 42.9			
star	3 57 0	-55 42.9			
	3 57 0	-55 42.9 ✓			
161	3 56 34	-55 36.0			
star	3 56 34	-55 36.0			
	3 56 34	-55 36.0 ✓			
~~166~~	3 57 9	-56 2.5	-56 059		
	3 57 9	-56 2.5	-55 096		
	~~3 57 9 -56 2.5~~ ✓		3 51 2 -56 29.1	~~3 59 22~~	~~-55 45.3~~
	Δα = 582″	Δδ = 36.5′	4 0 44 -55 52.6		
	= 82.2 mm.	= 34.5 mm.			
~~167~~	3 57 45	-56 5.9			
	3 57 45	-56 5.9			
	~~3 57 45 -56 5.9~~ ✓			~~3 59 58~~	~~-55 48.7~~
✓168	3 58 42	-56 6.9			
	3 58 42	-56 6.9			
	3 58 42	-56 6.9 ✓		4 00 64	-55 50.1

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A.41P4

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
✓169	3 56 34	-56 19.7			
	3 56 34	-56 19.7			
34.4	3 56 34	-56 19.7		3 58 48	-56 2.5
✓170	3 5P 7	-56 23.7			
	3 5P 7	-56 23.7			
	3 5P 7	-56 23.7		4 00 19	-56 6.5
✓171	3 55 31	-56 24.2			
	3 55 31	-56 24.2			
	3 55 31	-56 24.2		3 57 45	-56 7.0
~~172~~	3 55 17	-56 16.6			
	3 55 17	-56 16.6			
	~~3 55 17 -56 16.6~~			~~3 57 31 -55 59.4~~	
45.3 ~~173~~	4 0 16	-55 52.2			
	4 0 16	-55 52.2			
	~~4 0 16 -55 52.2~~			~~4 2 36 -55 35.4~~	
✓141	3 56 29	-57 14.1	-57 6P4		
	3 56 29	-57 14.1	-57 5P8		
18.7	3 56 29	-57 14.1	3 56 13 -57 1P.8	3 58 39	-56 56.9
	Δα: 12P'' = 16.9mm.	Δδ: 21.5' = 22.6mm.	3 54 5 -56 5P3		
50.1 ✓142	3 54 57	-57 3.8			
	3 54 57	-57 3.8			
	3 54 57	-57 3.8		3 57 6	-56 46.2

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~138~~	3 55 33	-57 27.1	-57 599		
	3 55 33	-57 27.1	-57 604		
	~~3 55 33~~	~~-57 27.1~~	3 54 30 -57 44.7	3 ~~57 41~~	-57 ~~9.9~~
	Δα: 103"	Δδ: 25.9'	3 56 13 -57 18.8		
	: 15.0mm	: 25.4mm			
139	3 55 46	-57 20.9			
	3 55 46	-57 20.9			
	3 55 46	-57 20.9		3 57 54	-57 3.7
140	3 54 23	-57 25.6	-57 599		
	3 54 23	-57 25.6	-57 598		
	3 54 23	-57 25.6	3 54 30 -57 44.7	3 56 31	-57 8.0
	Δα: 25"	Δδ: 47.4'	3 54 5 -56 57.3		
	: 1.9mm	: 47.9mm			
136	3 57 43	-57 31.8	-57 599		
	3 57 43	-57 31.8	-57 613		
	3 57 43	-57 31.8	3 54 30 -57 44.7	3 59 49	-57 14.6
	Δα: 343"	Δδ: 34.5'	4 0 33 -57 10.2		
	: 50.8mm	: 33.0mm			
135	3 58 19	-57 28.5			
	3 58 19	-57 28.6			
	3 58 19	-57 28.6		~~3~~ 4 00 23	-57 11.4

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1936phae.proj.2325M

A.4184

Nd.	α	δ	Comp. stars	Position 2000 α	Position 2000 δ
~~127~~	3 54 01	-58 22.5	-58 323		
	3 54 2	-58 22.6	-57 599		
	~~3 54 2~~	~~-58 22.6~~	3 52 10 -58 31.6	3 56 4	-58 5.0
	Δα: 140"	Δδ: 46.9'	3 54 30 -57 44.7		
	= 19.3mm	= 47.0mm			
130	3 52 54	-57 59.1			
	3 52 54	-57 59.2			
	3 52 54	-57 59.2		3 55 4	-57 41.6
~~134~~	3 55 17	-57 53.4	-58 334		
	3 55 18	-57 53.5	-57 599		
	~~3 55 18~~	~~-57 53.4~~	3 57 42 -58 14.9	3 57 26	-57 36.2
	Δα: 192"	Δδ: 30.2'	3 54 30 -57 44.7		
	= 26.0mm	= 31.6mm			
133	3 54 16	-59 6.5	-59 295		
	3 54 16	-59 6.5	-58 323		
	3 54 16	-59 6.0	3 56 36 -59 7.7	3 56 10	-58 48.9
	Δα: 266"	Δδ: 36.1'	3 52 10 -58 31.6		
	= 34.1mm	= 36.9mm			
132	3 54 55	-58 55.7			
	3 54 55	-58 55.6			
	3 54 55	-58 55.6		3 56 57	-58 38.2
~~131~~	3 53 11	-58 46.9			
	3 53 11	-58 46.9			
	~~3 53 11~~	~~-58 46.9~~		3 55 13	-58 29.3

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1930phae.proj.232PM

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
~~129~~	3 52 6	-58 35.2	-59 295		
	3 52 5	-58 35.2	-58 323		
	~~3 52 6~~	~~-58 35.2~~	56 36 -59 7.7	3 54 10	-58 17.6
	Δα: 266"	Δδ: 36.1'	3 52 10 -58 31.6		
	= 34.1mm	: 36.9mm			
219	4 0 22	-59 24.7	-60 279		
	4 0 22	-59 24.8	-59 307		
	4 0 22	-59 24.8	3 55 14 -60 1.0	4 2 14	-59 8.0
	Δα: 404"	Δδ: 52.7'	4 1 58 -59 8.3		
	= 46.1mm	: 50.8mm			
220	3 56 58	-59 51.7			
	3 56 58	-59 51.7			
	3 56 58	-59 51.7		3 58 51	-59 34.5
221	3 56 50	-59 48.4			
	3 56 51	-59 48.3			
	3 56 50	-59 48.4		3 58 43	-59 31.2
222	3 56 42	-59 51.7			
	3 56 42	-59 51.8			
	3 56 42	-59 51.8		3 58 35	-59 34.6
2	3 56 06	-59 48.0			
	3 56 07	-59 48.1			
	3 56 6	-59 48.0		3 58 00	-59 30.8

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1930phae.proj.2325M

A. 41P4

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
~~6~~	3 49 33	-59 50.6	-60 279		
	3 49 32	-59 50.6	-59 290		
	3 49 32	-59 50.6	3 55 14 -60 1.0	3 51 28	-59 32.6
	Δα: 70P"	Δδ: 27.3'	3 43 26 -59 33.7		
	= 90.1mm	: 27.7mm			
~~215~~	4 6 29	-59 26.8	-59 314		
	4 6 29	-59 26.8	-59 307	4 ~~8~~ 17	-59 10.8
	~~4 6 29~~	~~-59 26.8~~	4 6 51 -59 46.9		
	Δα: 293"	Δδ: 38.6'	4 1 58 -59 8.3		
	= 42.0mm	: 39.7mm			
✓216	4 3 44	-59 14.2			
	4 3 44	-59 14.2			
	4 3 44	-59 14.2		4 5 32	-58 57.8
✓218	4 2 13	-59 27.1			
	4 2 13	-59 27.2			
	4 2 13	-59 27.2		4 4 03	-59 10.8
~~214~~	4 7 32	-59 39.1	-59 314		
	4 7 32	-59 39.0	-59 317		
	~~4 7 32~~	~~-59 39.0~~	4 6 51 -59 46.9	4 9 ~~18~~	-59 23.0
	Δα: 143"	Δδ: 27.2'	4 9 14 -59 19.7		
	= 20.0mm	: 26.3mm			
✓213	4 7 22	-59 21.1			
	4 7 22	-59 21.0			
	4 7 22	-59 21.0		4 9 8	-59 5.0

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1930phae.proj.231PM

Positions in 2000

Neb.	α	δ	Comp. Stars	α	δ
212	4 10 28	-59 20.0	-59 321		
	4 10 28	-59 20.0	-59 317		
double star	4 10 28	-59 20.0	4 12 49 -59 20.2		
	Δα: 215"	Δδ: 0.5'	4 9 14 -59 19.7		
	= 27.5mm	= 2.9mm			
~~211~~	4 3 09	-58 45.5	-59 307		
	4 3 09	-58 45.5	-58 345		
	~~4 3 9 -58 45.5~~		4 1 58 -59 8.3	4 5 7	-58 29.1
	Δα: 174"	Δδ: 54.4'	4 4 52 -58 13.9		
	= 32.0mm	= 54.4mm			
✓208	4 8 10	-57 53.8	-58 334		
	4 0 11	-57 53.9	-57 618		
	4 0 10	-57 53.8	3 57 42 -58 14.9	4 2 14	-57 37.0
	Δα: 302"	Δδ: 44.4'	4 2 44 -57 30.0		
	= 41.7mm	= 43.3mm			
✓207	4 1 18	-58 0.7			
	4 1 18	-58 0.6			
	4 1 18	-58 0.6		4 3 18	-57 43.8
~~206~~	4 1 26	-57 53.2			
	4 1 27	-57 53.1			
	~~4 1 26 -57 53.2~~			4 3 30	-57 36.4
~~p~~	4 1 48	-57 56.4			
	4 1 48	-57 56.3			
	~~4 1 48 -57 56.4~~			4 3 52	-57 39.6

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1930phae.proj.2325M

A 4124

Neb.	α	δ	Comp. star	Positions in 2000 α	δ
204	4 4 44	-5 49.0	-5 30.4		
star	4 4 44	-5 49.0	-5 61.8		
	4 4 44	-5 49.0	4 12 32 -5 59.6		
	Δα: 588"	Δδ: 29.1'	4 2 44 -5 30.5		
	= 77.5 mm	= 33.7 mm			
205	4 4 13	-5 45.8			
	4 4 13	-5 45.8			
	4 4 13	-5 45.8		4 6 15	-5 29.4
209	4 5 06	-5 10.3	-5 34.0		
	4 5 06	-5 10.3	-5 62.6		
	4 5 6	-5 10.3	4 4 02 -5 13.9	4 7 2	-5 54.3
	Δα: 10.8"	Δδ: 37.8'	4 7 30 -5 36.1		
	= 23.8 mm	= 39.7 mm			
a	4 14 15	-5 54.5	-5 30.9		
	4 14 15	-5 54.6	-5 62.8		
	4 14 15	-5 54.6	4 12 32 -5 59.6	4 16 13	-5 39.4
	Δα: 192"	Δδ: 47.5'	4 9 30 -5 12.1		
	= 21.1 mm	= 49.8 mm			
202	4 7 39	-5 27.7	-5 61.8		
	4 7 40	-5 27.9	-5 64.2		
	4 7 40	-5 27.8	4 2 44 -5 30.5	4 9 40	-5 11.8
	Δα: 421"	Δδ: 58.7'	4 9 40 -5 31.2		
	= 61.5 mm	= 56.3 mm			
188	4 6 23	-5 10.0			
star	4 6 23	-5 10.1			
	4 6 23	-5 10.0			

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1930phae.proj.233PM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
✓185	4 1 29	-56 52.9	-57 613		
	4 1 30	-56 52.8	-56 639		
	4 1 30	-56 52.8 ✓	4 0 32 -57 10.2	4 3 42	-56 36.0
	Δα: 445"	Δδ: 72.6'	4 7 57 -55 57.6		
	= 61.2 mm	: 69.6 mm			
~~184~~	4 1 16	-56 41.5			
	4 1 15	-56 41.4			
	4 1 16	-56 41.4 ✓		4 3 28	-56 24.6
~~181~~	4 2 13	-56 18.5			
	4 2 13	-56 18.4			
	4 2 13	-56 18.4 ✓		4 4 25	-56 2.0
✓177	4 4 32	-56 9.1			
	4 4 32	-56 9.2			
	4 4 32	-56 9.2 ✓		4 6 42	-55 52.8
✓176 a	4 2 21	-55 59.6			
	4 2 21	-55 59.6			
	4 2 21	-55 59.6 ✓		4 4 41	-55 43.2
✓175	4 2 7	-55 47.2	-56 639		
	4 2 7	-55 47.3	-55 594		
	4 2 7	-55 47.2 ✓	4 7 57 -55 57.6	4 4 27	-55 30.8
	Δα: 462"	Δδ: 56.2'	4 0 15 -55 1.4		
	= 59.1 mm	: 60.2 mm			
✓176 b	4 2 21	-55 59.0	-57 613		
	4 2 21	-55 59.0	-56 639		
	4 2 21	-55 59.0		4 4 41	-55 42.6

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1936phae.proj.232PM

A.4184

Neb.	α			δ		Comp. stars	Positions in 2000 α	δ
174	4	4	3	−55°	43.0			
star of A15844	4	4	2	−55	43 0			
~~4~~	~~4~~	~~2~~	~~−55°~~	~~43.0~~				
230	4	5	44	−55	39.0			
star of A15844	4	5	43	−55°	39.0			
~~4~~	~~5~~	~~44~~	~~−55°~~	~~39.0~~				
k	4	2	52	−55	25.2			
3 stars of A15844	4	2	52	−55°	25.2			
~~4~~	~~2~~	~~52~~	~~−55°~~	~~25.8~~				
75	3	41	45	−56	4.1	−56 5°78		
	3	41	45	−56	4.1	−55 56.1		
	3	41	45°	−56	4.1	3 44 41 −56 20.9	3 44 5	−55 45.3
	Δα = 2.84″			Δδ = 34.6″		3 39 57 −55° 46.3		
	= 41.8mm			= 33.0mm				

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1930phae.proj.233PM

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A.3339

4Feb.

	α			δ		Comp. Stars			Positions in 2000 α		δ	
194	3	31	04	-54	21.1		-55 5'25					
	3	31	03	-54	21.1		-54 571					
	3	31	4	-54	21.1	3	23	41	-55 14.4	3	33	44 -54 0.7
	Δα: 5'79"			Δδ: 55.2'		3	33	20	-54 19.2			
	= 82.7mm			= 56.9mm								
224	3	29	46	-54	23.8							
	3	29	45	-54	23.8							
	3	29	46	-54	23.8					3	32	26 -54 3.4
296	3	33	15	-54	33.5							
	3	33	14	-54	33.6							
	3	33	14	-54	33.6					3	35	52 -54 13.6
195	3	30	54	-54	42.4							
	3	30	54	-54	42.5							
	3	30	54	-54	42.4					3	33	34 -54 22.0
196	3	30	31	-54	41.2							
	3	30	31	-54	41.2							
	3	30	31	-54	41.2					3	33	11 -54 20.8
189	3	33	15	-54	47.8							
	3	33	14	-54	47.8							
	3	33	14	-54	47.8					3	35	52 -54 27.8
197	3	31	28	-54	52.5							
	3	31	28	-54	52.5							
	3	31	28	-54	52.5					3	34	8 -54 32.1

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1936phae.proj.2321M

A. 3339

Neb.	α	δ	Comp. Star	Positions in 2000 α	δ
199	3 31 34	-54 54.2			
	3 31 34	-54 54.3			
	3 31 34	-54 54.2		3 34 12	-54 33.8
200	3 31 09	-54 59.7			
	3 31 08	-54 59.8			
	3 31 8	-54 59.8		3 33 48	-54 39.4
198	3 31 17	-55 03.5			
	3 31 16	-55 03.6			
	3 31 16	-55 3.6		3 33 48	-54 43.2
194	3 33 21	-55 00.7			
	3 33 19	-55 00.7			
	3 33 20	-55 00.7		3 35 52	-54 40.7
196	3 32 49	-55 4.6			
	3 32 48	-55 4.6			
	3 32 48	-55 4.6		3 35 20	-54 24.6
195	3 31 45	-55 10.4			
	3 31 44	-55 10.4			
	3 31 44	-55 10.4		3 34 16	-54 50.4
225	3 28 13	-55 14.4			
	3 28 13	-55 14.3			
	3 28 13	-55 14.4		3 30 47	-54 53.6

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1930phae.proj.232FM

Positions in 2000

Neb.	α	δ	Comp. Star	α	δ
226	3 28 02	-54 54.4	-55 520		
	3 28 02	-54 54.4	-54 571		
	3 28 2	-54 54.4	3 23 41 -55 14.4	3 30 42	-54 33.6
	Δα: 5.79″	Δδ: 55.2′	3 33 20 -54 19.2		
	= 82.9 mm	= 56.9 mm.			
254	3 26 50	-54 39.8			
	3 26 49	-54 39.8			
	3 26 50	-54 39.8		3 29 30	-54 19.0
259b	3 25 33	-54 24.3			
	3 25 33	-54 24.3			
	3 25 33	-54 24.3		3 28 15	-54 3.5
292	3 23 59	-54 26.2			
	3 23 58	-54 26.3			
	3 23 58	-54 26.2		3 26 40	-54 5.0
214	3 23 55	-54 34.7			
	3 23 55	-54 34.6			
	~~3 23 55 -54 34.6~~			3 25 37	-54 13.4
~~295~~	3 23 47	-54 56.9			
	3 23 45	-54 57.0			
	~~3 23 46 -54 57.0~~			3 26 28	-54 35.8

cont. from p. 29

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1999phae.proj..292SW

Neb. α δ Comp. star Positions in 2000

The following nebulae were previously marked but cannot be identified as I.C., N.G.C., or N.G. In most instances within the same circle there was an I.C. or N.G.C. object. Therefore I have treated them as new nebulae and lettered them from A – P (omitting I, J, and O). In many instances an I.C. object is used instead of a comp. star for measurement of new nebula positions as convenient stars are scarce in this region.

						α	δ
A rejected	3 10 9	-50 55.0	I.C. 1903				
	3 10 8	-50 55.1	-51 386				
	3 10 8 ✓	-50 55.0 ✓	3 18 0	-50 52.0	3 13 17	-50 32.2	
	Δα: 106"	Δδ: 2.6'	3 11 46	-50 55.4			
	= 15.9mm	= 2.7mm					
B	3 16 47	-51 1.3	I.C. 1915				
	3 16 47	-51 1.2	-51 393				
	3 16 47	-51 1.2 ✓	3 16 42	-51 3.0	3 19 48	-50 39.2	
	Δα: 16"	Δδ: 8.3'	3 16 26	-50 57.7			
	= 4.0	= 4.5mm					
C	3 27 40	-53 36.6	-53 570				
	3 27 40	-53 36.6	-53 583				
	3 27 40	-53 36.6 ✓	3 26 25	-53 50.7	3 30 25	-53 15.9	
	Δα: 338"	Δδ: 53.8'	3 32 3	-52 56.9			
	= 51.0mm	= 53.8mm					
D	3 24 42	-53 25.2	-53 570				
	3 24 42	-53 25.2	-52 392				
	3 24 42	-53 25.2 ✓	3 26 25	-53 50.7	3 27 28	-53 42	
	Δα: 462"	Δδ: 72.6'	3 18 43	-52 38.1			
	= 71.0mm	= 72.0mm					

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1930phae.proj.232pm

Feb.

	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
E	3 22 54	-52 51.8	-53 393		
	3 22 53	-52 51.7	-52 392		
	3 22 54	-52 51.8	3 32 3 -52 56.9	3 25 49	-52 30.6
	Δα: 800"	Δδ: 18.8'	3 18 43 -52 32.1		
	= 122 mm.	= 18.0 mm.			
F	3 27 2	-52 54.8			
	3 27 3	-52 54.9			
	3 27 2	-52 54.8		3 29 52	-52 34.2
G	3 29 31	-52 44.7			
	3 29 31	-52 44.7			
	3 29 31	-52 44.7		3 32 19	-52 24.3
H rejected	3 31 14	-51 38.0	J.C. 1966		
	3 31 14	-51 38.0	-51 425		
	3 31 14	-51 38.0	3 31 12 -51 39.0	3 34 8	-51 17.8
	Δα: 126"	Δδ: 6.7'	3 33 18 -51 32.3		
	= 20.0 mm	= 6.9 mm			
K rejected	3 39 45	-51 10.7	-51 427		
	3 39 45	-51 10.7	-51 442		
	3 39 45	-51 10.7	3 34 28 -51 4.1	3 42 35	-50 51.7
	Δα: 326"	Δδ: 32.2'	3 39 54 -51 36.3		
	= 50.1 mm.	= 34.1 mm.			
L rejected	3 27 26	-50 39.7	CPD -51 418		
	3 27 26	-50 39.6	CDM -50 1066		
	3 27 26	-50 39.6	3 29 14 -51 9.3	3 30 26	-50 18.9
	Δδ: 16"	Δδ: 55.8'	3 28 58 -50 13.5		
	= 2.2 mm.	= 56.5 mm.			

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1930phae.proj.232fm

A 3339

Neb.	α	δ	comp. stars	Positions in 2000 α	δ
	3 33 45	-49 38.9	-50 46.5		
	3 33 45	-49 38.9	~~-49 44.6~~	comp. star wrong	
	3 33 45	-49 38.9	3 33 54 -50 17.0		
	Δα: 3.19"	Δδ: 48.7'	3 39 13 -49 28.3		
	= 52.0 mm	= 31.2 mm			
IC 1974	(3 33 49	-49 53.1)	use published position		
N	3 42 36	-52 17.6	-52 44.1		
	3 42 37	-52 17.4	-52 45.0		
	3 42 36	-52 17.5	3 40 28 -52 33.8	3 45 19	-51 58.6
	Δα: 15.7"	Δδ: 29.5'	3 43 5 -52 4.3		
	= 24.3 mm	= 26.3 mm			
P	3 25 38	-53 55.3	-54 54.9		
	3 25 39	-53 55.3	-53 57.0		
	3 25 38	-53 55.3	3 20 25 -54 20.4		
	Δα: 36.0"	Δδ: 29.7'	3 26 20 -53 50.7		
	= 52.9 mm	= 30.8 mm			

due to an error in publication of Mengel's nebula, this was found later to be Mengel's 0325 - 5455.0

cont. from p. 29

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1930phae.proj.232pm

( ) number of nebula as classified on #14272
( ) " " " " " " 14280
( ) " " " " " " 14269

Neb.	α	δ	Comp. stars	Positions in 2000 α	Positions in 2000 δ
199	3 3 16	-49 57.9	-50 407		
	3 3 16	-49 57.9	-49 389		
	3 ~~9~~ 3 ~~29~~ 16	-49 ~~59.6~~ 57.9	2 59 28 -50 10.5	3 6 32	-49 34.4
	Δα: 400"	Δδ: 55.0'	3 6 8 -49 20.5		
	= 28.2mm	= 56.1mm			
178	3 4 31	-52 12.1	-52 366		
(7)	3 4 31	-52 12.2	-51 357		
	3 4 ~~26~~ 31	-52 12.2	3 5 54 -52 23.8	3 7 35	-51 49.0
	Δα: 312"	Δδ: 35.8'	3 0 ~~42~~ -51 48.0		
	= 50.5mm	= 33.2mm			
130	3 12 34	-52 29.9	-52 378		
(11)	3 12 34	-52 29.9	-51 377		
	3 12 34	-52 29.9	3 13 8 -52 46.7	3 15 33	-52 7.4
	Δα: 399"	Δδ: 64.7'	3 6 49 -51 42.0		
	= 58.3mm	= 64.7mm			
177	3 11 45	-52 27.2			
(10)	3 11 45	-52 27.2			
	3 11 45	-52 27.2		3 14 45	-52 4.5
191a	3 10 35	-51 55.9			
(51)	3 10 35	-51 55.9			
	3 10 35	-51 55.9		3 13 38	-51 33.5
191b	3 10 51	-51 55.3			
(52)	3 10 51	-51 55.3			
	3 10 51	-51 55.3		3 13 54	-51 32.9

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1930phae.proj.232em

A.3346

Neb	α			δ		Comp. Stars				Positions in 2000 α		δ	
J 179	3	9	34	-51	42.0	-51 377							
(48)	3	9	34	-51	42.0	-51 386							
	3	9	34	-51	42.0	3 6 49	-51	42.0		3	12	37	-51 19.6
	Δα = 2.97"			Δδ = 46.6'		3 11 46	-50	55.4					
	= 44.0mm			= 48.9mm									
J 193	3	10	14	-51	35.3								
(49)	3	10	14	-51	35.4								
	3	10	14	-51	35.4					3	13	17	-51 13.0
J 192	3	10	32	-51	34.4								
(50)	3	10	32	-51	34.4								
	3	10	32	-51	34.4					3	13	35	-51 12.0
~~189~~	3	11	07	-51	30.7								
position already found on A4179	3	11	07	-51	30.8								
	~~3~~	~~11~~	~~7~~	~~-51~~	~~31.8~~								
J 163	3	11	36	-51	20.1								
(67)	3	11	36	-51	20.1								
	3	11	36	-51	20.1					3	14	39	-50 57.8
J 200	3	11	16	-51	16.5								
(66)	3	11	16	-51	16.4								
	3	11	~~54~~ 16	-51	16.6					3	14	19	-50 54.3
J 190	3	11	12	-51	6.7								
(34)	3	11	12	-51	6.8								
	3	11	12	-51	6.8					3	14	15	-50 44.4

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Nob.	α			δ		Comp. Stars	Positions in 2000 α	δ
✓162	3	11	12	-51	3.8			
(36)	3	11	12	-51	3.9			
	3	11	12	-51	3.8		3 14 15	-50 41.4
✓197	3	10	12	-50	45.7	C.P.D -51 3PL		
	3	10	12	-50	45.7	C.D.M -50 934		
	3	10	12 (12)	-50	45.7 (45.7) ~~47.9~~	3 11 46 -50 53.4	3 13 21	-50 22.9
	Δα = 303"			Δδ = 24.7'		3 6 43 -50 30.7		
	= 39.7mm			= 29.0mm				
✓194	3	7	57	-50	49.6			
	3	7	57	-50	49.5			
	3	7	57 (57) ~~46~~	-50	49.6 (49.6) ~~50.7~~		3 11 6	-50 26.7
✓203	3	7	40	-50	46.5			
	3	7	40	-50	46.5			
	3	7	40 (40) ~~28~~	-50	46.5 (46.5) ~~48.4~~		3 10 49	-50 23.6
✓195	3	8	44	-50	46.1			
	3	8	44	-50	46.1			
	3	8	44 (44) ~~33~~	-50	46.1 (46.1) ~~42.0~~		3 11 53	-50 23.3
✓196	3	8	27	-50	40.3			
	3	8	27	-50	40.3			
	3	8	27 (27) ~~18~~	-50	40.3 (40.3) ~~43.4~~		3 11 36	-50 17.5
✓159	3	10	22	-50	30.1			
	3	10	22	-50	30.1			
	3	10	22 (22) ~~20~~	-50	30.1 (30.1) ~~35.5~~		3 13 31	-50 7.3

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1930phae.proj.2326m

A. 3346

Neb.	α		δ		Comp. stars	Positions in 2000 α		δ	
✓160	3	10	7	-50	27.5				
	3	10	7	-50	27.5				
	3	10	7	-50	27.0	3	13	16	-50 4.7
✓161	3	10	52	-50	27.6				
	3	10	53	-50	27.6				
	3	10	52	-50	27.6	3	14	1	-50 4.8
✓202	3	9	24	-50	3.7	C.D.M. -50 934			
	3	9	24	-50	3.7	C.P.D. -49 399			
	3	9	24	-50	3.7	3 11 46 -50 30.7	3	12	33 -49 40.9
	Δα: 174			Δδ: -1.8'		3 14 40 -49 38.9			
	= 6.48 mm			= 48.5 mm.					
15	3	10	36	-50	18.4				
	3	10	36	-50	18.4				
	3	10	36	-50	18.4				
defect: of 914280									
✓144	3	14	22	-50	13.7				
	3	14	22	-50	13.7				
	3	14	22	-50	13.7	3	17	30	-49 51.1
✓145	3	14	30	-50	2.7				
	3	14	30	-50	2.7				
	3	14	30	-50	2.7	3	17	38	-49 40.1

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208 A. 3346

Neb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
✓205	3 13 17	-48 55.1	-49 389		
	3 13 17	-48 54.9	-48 344		
	3 13 ~~24~~ 17	-48 ~~45.8~~ 55.0	3 6 8 -49 205	3 16 33	-48 32.6
	Δα: 483″.	Δδ: 73.5′	3 14 11 -48 7.0		
	= 78.0 mm.	= 77.1 mm.			
✓146	3 13 29	-48 21.2			
	3 13 29	-48 21.2			
	3 13 29	-48 ~~19.4~~ 21.2		3 16 45	-47 58.8
J 170	3 15 56	-53 1.6	-53 549		
(17)	3 15 56	-53 1.7	-52 481		
	3 15 56	-53 1.6	3 15 59 -53 6.6	3 18 48	-52 39.6
	Δα: 87″	Δδ = 49.0′	3 14 32 -52 17.6		
	= 14.1 mm.	= 49.1 mm.			
J 171	3 15 46	-52 39.2			
(15)	3 15 46	-52 39.3			
	3 15 46	-52 39.2		3 18 ~~44~~ 48	-52 17.0
J 176a	3 15 16	-52 37.1			
(14)	3 15 16	-52 37.2			
	3 15 16	-52 37.2		3 18 ~~14~~ 18	-52 15.0
J 176b	3 15 17	-52 36.6			
(74)	3 15 17	-52 36.7			
	3 15 17	-52 36.6		3 18 ~~14~~ 15	-52 14.4

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1936phae.proj.2325M

A.3346

Neb.	α	δ	Comps. Stars	Positions in 2000 α	Positions in 2000 δ
176c	3 15 16	-52 35.A			
	3 15 16	-52 35.9			
star: cf. A 14272	~~3 15 16~~	~~-52 35.8~~			
128	3 14 36	-52 32.4			
(13)	3 14 36	-52 32.5			
	3 14 36	-52 32.4		3 17 34	-52 10.2
131	3 13 22	-52 30.2	-52 378		
(12)	3 13 21	-52 30.2	-52 481		
	3 13 22	-52 30.2	3 13 8 -52 46.7	3 16 20	-52 7.8
	Δα: 84"	Δδ: 29.1'	3 14 32 -52 17.1		
	= 14.6mm	= 31.0mm			
133	3 15 56	-52 20.4	-52 388		
(14)	3 15 56	-52 20.3	-51 327		
	3 15 56	-52 20.4	3 17 16 -52 23.4	3 18 54	-51 58.2
	Δα = 280"	Δδ: 63.3'	3 12 36 -51 20.1		
	= 45.0mm	= 63.0mm			
132	3 16 25	-52 19.6			
(15)	3 16 25	-52 19.5			
	3 16 25	-52 19.6		3 19 23	-51 57.5
127	3 15 21	-52 11.3			
	3 15 21	-52 11.2			
	3 15 21	-52 11.2		3 18 19	-51 49.0

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Nbl.	α	δ	Comp. Star	Positions in 2000 α	δ
✓201	3 14 16	-52 8.5	-52 388		
	3 14 16	-52 8.5	-51 389		
	3 14 16	-52 8.5	3 17 16 -52 23.4	3 17 14	-51 46.3
	Δα: 2.80"	Δδ: 63.3'	3 12 36 -51 20.1		
	= 45.0 mm	= 63.0 mm			
✓134	3 13 21	-52 2.2			
	3 13 21	-52 2.1			
	3 13 21	-52 2.2		3 16 19	-51 39.9
✓182	3 15 36	-52 3.2			
	3 15 36	-52 3.1			
	3 15 36	-52 3.2		3 18 34	-51 41.0
✓181	3 16 19	-52 3.2			
	3 16 19	-52 3.2			
	3 16 19	-52 3.2		3 19 17	-51 41.1
✓126	3 15 1	-51 50.4			
	3 15 1	-51 50.4			
	3 15 1	-51 50.4		3 18 2	-51 28.4
✓163	3 16 52	-51 42.8			
	3 16 52	-51 42.8			
	3 16 52	-51 42.8		3 19 53	-51 20.9
	3 1	22 0			
	3 19 53	-51 20 8			
✓180	3 14 12	-51 43.4			
	3 14 12	-51 43.4			
	3 14 12	-51 43.4		3 17 13	-51 21.4

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A.3341

Plate	α	δ	Comps. Stars	Positions in 2000 α	Positions in 2000 δ
135	3 12 37	-51 52.7			
(6A)	3 12 37	-51 52.7			
	3 12 37	-51 52.7		3 15 39	-51 30.5
164	3 12 17	-51 24.9			
(75)	3 12 17	-51 24.8			
	3 12 17	-51 24.8		3 15 19	-51 2.6
140	3 12 33	-51 19.2			
(77)	3 12 33	-51 19.2			
	3 12 33	-51 19.2		3 15 35	-50 57.0
141	3 12 27	-51 6.4	-51 387		
(33)	3 12 27	-51 6.4	-51 386		
	3 12 27	-51 6.4	3 12 36 -51 20.1	3 15 29	-50 44.2
	Δα: 5.0″	Δδ: 24.7′	3 11 46 -50 55.4		
	= 8.5 mm.	= 24.9 mm.			
136	3 12 53	-51 12.3	-51 387		
(32)	3 12 53	-51 12.3	-51 393		
	3 12 53	-51 12.3	3 12 36 -51 20.1	3 15 55	-50 50.1
	Δα: 23.1″	Δδ: 25.6′	3 16 27 -50 54.5		
	= 36.0 mm.	= 26.4 mm.			
137	3 13 34	-51 15.1			
	3 13 34	-51 15.0			
	3 13 34	-51 15.0		3 16 36	-50 53.5

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1930phae.proj.233PM

212 A.3346

Yrs.	α	δ	Comp. stars	Positions in 2000 α	δ
✓138	3 14 54	-51 19.8			
	3 14 54	-51 19.9			
	3 14 54	-51 19.8 ✓		3 17 55 ✓	-50 ✓ 57.8
✓143	3 12 17	-50 48.0	C.P.D -51 386		
	3 12 18	-50 48.0	C.D.M -50 1015		
	3 12 18	-50 48.0 ✓	3 11 46 -50 55.4	3 15 26 ✓	-50 ✓ 25.6 21.4
	Δα: 504″	Δδ: 3 4.1′	3 20 10 -50 21.3		
	= 80.1mm	= 35.2mm			
✓142	3 14 11	-50 44.0			
	3 14 11	-50 43.9			
	3 14 11	-50 44.0 ✓		3 17 17 ✓	-50 ✓ 21.6
✓123	3 15 41	-50 44.6			
	3 15 42	-50 44.5			
	3 15 42	-50 44.6 ✓		3 18 48 ✓	-50 ✓ 22.2
✓122	3 15 13	-50 32.9			
	3 15 14	-50 32.8			
	3 15 14	-50 32.8 ✓		3 18 20 ✓	-50 ✓ 10.4 8
✓157	3 15 25	-50 27.0			
	3 15 26	-50 27.0			
	3 15 26	-50 27.0 ✓		3 18 32 ✓	-50 ✓ 4.6
✓158	3 14 54	-50 20.4			
	3 14 55	-50 20.4			
	3 14 04	-50 20.4 ✓		3 18 00 ✓	-49 ✓ 58.0

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1936phae.proj.2324PM

A.3346

Mch.	α	δ	Comp Stars	Positions in 2000 α	δ
98	3 23 11	-50 36.5	C.P.D. -51 412		
	3 23 11	-50 36.5	C.D.M. -51 1015		
7.8	3 23 11	-50 36.5	3 24 8 -51 0.2	3 24 13	-50 15.3
	Δα: 238"	Δδ: 38.9'	3 20 10 -51 21.3		
	= 39.7 mm	= 38.9 mm			
5.6					
99	3 23 50	-50 23.0			
	3 23 50	-50 23.0			
	3 23 50	-50 23.0		3 24 51	-50 1.9
101	3 21 48	-50 24.5			
1.6	3 21 48	-50 24.5			
	3 21 48	-50 24.5		3 24 50	-50 3.1
~~110~~	3 20 28	-50 23.8			
	3 20 28	-50 23.8			
2.2 rejected	~~3 20 28~~	~~-50 23.8~~		~~3 23 31~~	~~-50 2.2~~
102	3 21 15	-50 14.3	-50 1015		
8	3 21 16	-50 14.3	-49 417		
0.4	3 21 16	-50 14.3	3 20 10 -50 21.3	3 24 19	-49 52.7
	Δα: 234"	Δδ: 68.8'	3 24 4 -49 12.5		
	= 38.6 mm	= 69.2 mm			
1.6					
108	3 20 31	-50 6.5			
	3 20 31	-50 6.5			
	3 20 31	-50 6.5		3 23 34	-49 44.9
58.8					

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1930phae.proj.232PM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
✓150	3 21 36	-50 3.5	-50 1015		
	3 21 36	-50 3.5	-49 417		
	3 21 36	-50 3.5	3 20 10 -50 21.3	3 24 39	-49 42.0
	Δα: 230″	Δδ: 6 P.P.′	3 24 4 -49 12.5		
	: 38.6mm	: 69.2mm			
✓106	3 20 40	-49 57.8			
	3 20 40	-49 57.9			
	3 20 40	-49 57.8		3 23 49	-49 36.0
✓107	3 20 10	-49 52.3			
	3 20 10	-49 52.12			
	3 20 10	-49 52.2		3 23 19	-49 30.4
✓149	3 18 26	-49 55.6	C.DM. -50 1015		
	3 18 26	-49 55.6	C.PD -49 399		
	3 18 26	-49 55.6	3 20 10 -50 21.3	3 21 35	-49 33.8
	Δα: 330″	Δδ: 42.4′	3 14 40 -49 38.9		
	: 54.0mm	: 42.2mm			
✗120	3 17 6	-49 23.6	-49 399		
	3 17 7	-49 23.6	-49 417		
I.C. 1916	3 17 6	-49 23.6	3 14 40 -49 38.9	3 20 15	-49 1.8
	Δα: 564″	Δδ: 26.4′	3 24 4 -49 12.5		
	: 92.7mm	: 26.9mm			

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1930phae.proj.232.DM

A. 3346

Neb.	α	δ	Comp. stars	Positions 1900 α	Positions 1900 δ
121	3 19 14	-49 39.1			
	3 19 14	-49 39.1			
	3 19 14	-49 39.1		3 22 23	-49 17.3
154	3 18 44	-49 20.3			
	3 18 45	-49 20.3			
defect: of 114280	~~3 18 44~~	~~-49 20.3~~			
204	3 19 12	-49 25.4			
	3 19 13	-49 25.5			
	3 19 12	-49 25.4		3 22 21	-49 3.6
105	3 21 54	-49 36.0			
	3 21 54	-49 36.0			
	3 21 54	-49 36.0		3 25 3	-49 14.2
100	3 22 28	-49 31.3			
	3 22 29	-49 31.2			
	3 22 28	-49 31.2		3 25 37	-49 9.4
148	3 19 34	-48 39.3	-48 35.7		
(5)	3 19 33½	-48 39.2	-48 34.4		
	3 19 34	-48 39.2	3 20 38 -48 33.2	3 22 46	-48 18.0
	Δα = 38.7″	Δδ = 26.2′	3 14 11 -48 7.0		
	= 60.0 mm.	= 26.0 mm.			
149	3 16 55	-48 27.1			
(4)	3 16 55	-48 27.1			
	3 16 55	-48 27.1		3 20 08	-48 6.1

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1930phae.proj.232PM

Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
~~#~~	3 26 36	-48 20.8	-49 417		
J.C. 1944	3 26 36	-48 20.8	-48 357		
	3 26 36	-48 20.8	3 24 4 -49 12.5	3 29 45	-48 00.0
	Δα: 206″	Δδ: 39.3′	3 20 38 -48 33.2		
	= 33.9 mm	= 39.7 mm			
	use published position				
16	3 29 33	-48 24.5			
	3 29 33	-48 24.5			
3 stars: cf #14280	~~3 29 33~~	~~-48 24.5~~			
J 17	3 32 40	-48 48.6			
(9)	3 32 41	-48 48.6			
	3 32 40	-48 48.6		3 35 47	-48 28.2
19	3 28 34	-50 3.9	C.D.M. -50 1066		
	3 28 34	-50 3.9	C.P.D. -49 417		
	3 28 34	-50 3.9	3 28 58 -50 13.5	3 31 34	-49, 43.3
	Δα: 294″	Δδ: 61.0′	3 24 4 -49 12.0		
	= 46.2 mm	= 62.3 mm			
103	3 27 7	-50 6.3			
	3 27 7	-50 6.4			
	3 27 7	-50 6.4		3 30 7	-49 45.7
102	3 26 57	-49 48.8			
	3 26 57	-49 48.8			
defect: cf: #14280	~~3 26 57~~	~~-49 48.8~~			

Note: Use comp. stars but I could do with better

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1930phae.proj.232PM

A. 3346

Feb.	α	δ	Comp. Stars	Positions in 2000 α	Positions in 2000 δ
97	3 27 35	-50 52.8	C.P.D -51 412		
	3 27 36	-50 52.8	C.D.M. -50 1066		
00.0	3 27 36	-50 52.8	3 24 8 -51 0.2	3 30 36	-50 32.1
	Δα: 240″	Δδ: 46.7′	3 28 58 -50 13.5		
	= 47.2mm	= 45.6mm			
22	3 31 31	-51 23.3	C.P.D -51 425		
	3 31 31	-51 23.2	C.D.M. -50 1066		
	3 31 31	-51 23.2	3 33 17 -51 32.3	3 34 25	-51 3.1
	Δα: 259″	Δδ: 78.8′	3 28 58 -50 13.5		
	= 38.5mm	= 81.2mm			
8.2					
21	3 30 13	-51 6.6			
	3 30 13	-51 6.6			
	3 30 13	-51 6.6		3 33 7	-50 46.4
43.3					
20	3 29 42	-50 39.7			
	3 29 42	-50 39.6			
	3 29 42	-50 39.6		3 32 41	-50 19.2
94	3 26 17	-51 4.6	-51 418		
	3 26 17	-51 4.6	-51 412		
.7	3 26 17	-51 4.6	3 29 14 -51 9.4	3 28 13	-50 43.7
	Δα: 306″	Δδ: 9.2′	3 24 8 -51 0.2		
	= 48.1mm	= 11.1mm			
95	3 25 8	-51 3.2			
	3 25 8	-51 3.2			
	3 25 8	-51 3.2		3 28 4	-50 42.3

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Neb.	α	δ	Comp. Stars	Positions in 2000 α	δ
111	~~3 20 1~~	~~-5 1 9.3~~	~~-5 1 40P~~		
	~~3 20 0~~	~~-5 1 9.2~~	~~-5 1 393~~		
Defect	3 20 0	-5 1 9.2	3 22 27 -5 1 24.P		
	Δα: 360"	Δδ: 33.3'	3 16 27 -5 0 54.5		
	: 57.0mm	: 30.5mm			
✓153	3 19 06	-5 0 43.1	-5 1 393		
	3 19 06	-5 0 43.1	-5 0 1015		
	3 19 6	-5 0 43.1	3 16 27 -5 0 54.5	3 22 9	-50 21.5
	Δα: 223"	Δδ: 33.2'	3 20 10 -5 0 21.3		
	: 35.Pmm	: 33.7mm			
✓183	3 17 45	-5 2 3.4	-5 2 3PP		
	3 17 45	-5 2 3.5	-5 1 40P		
	3 17 45	-5 2 3.4"	3 17 16 -5 2 23.4	3 20 42	-51 41.5
	Δα: 311"	Δδ: 5P.6	3 22 27 -5 1 24.P		
	: 48.1mm	: 59.0mm			
✓125	3 18 56	-5 1 40.6			
	3 18 55	-51 40.6			
	3 18 56	-51 40.6		3 21 55	-51 19.0
✓166	3 20 17	-51 30.4			
	3 20 17	-51 30.4			
	3 20 17	-5 1 30.4		3 23 16	-51 8.8
✓169	3 20 17	-51 25.6			
	3 20 17	-51 25.7			
	3 20 17	-5 1 25.6		3 23 16	-51 4.0

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1930phae.proj.2325M

A.3346

Feb.	α	δ	comp stars	Positions in 2000 α	Positions in 2000 δ
168	3 19 29	-51 24.9			
	3 19 29	-51 24.9			
	3 19 29	-51 24.9		3 22 28	-51 3.3
119	3 17 22	-51 23.6			
	3 17 22	-51 23.7			
	3 17 22	-51 23.6		3 20 22	-51 1.8
87	3 24 17	-51 48.5	-51 41.9		
	3 24 18	-51 48.5	-51 40.8		
	3 24 18	-51 48.5	3 25 23 -51 52.6	3 27 15	-51 27.6
	Δα: 176"	Δδ: 27.8'	3 22 27 -51 24.8		
	= 26.9 mm.	= 28.0 mm.			
92	3 23 0	-51 45.5			
	3 23 0	-51 45.5			
	3 23 0	-51 45.5		3 25 58	-51 24.8
90	3 23 58	-51 29.6			
	3 23 58	-51 29.6			
	3 23 58	-51 29.6		3 26 55	-51 8.6
91	3 24 12	-51 27.8			
	3 24 12	-51 27.8			
	3 24 12	-51 27.8		3 27 9	-51 6.8

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1950place.proj.2329

Mab	α		δ		Comp Stars				Positions in 2000 α	δ
VF4	3	27	17	-51	41.6					
	3	27	16	-51	41.6					
	3	~~27~~ 27	~~16~~ 16	-51	~~42.5~~ 41.6	3	29 50	-52 7.7	3 30 11	-51 21.0
	Δα =	342"		Δδ =	67.5'	3	24 8	-51 0.2		
	=	51.3 mm		=	70.2 mm					
✓ PF	3	28	57	-51	37.7					
	3	28	57	-51	37.7					
	3	~~28~~ 28	~~57~~ 57	-51	~~38.2~~ 37.7				3 31 51	-51 17.4
✓ 93	3	29	29	-51	27.6					
	3	29	29	-51	27.6					
	3	~~29~~ 29	~~29~~ 29	-51	~~27.1~~ 27.6				3 32 23	-51 7.4
✓ 89	3	29	3	-51	24.8					
	3	29	3	-51	24.8					
	3	~~29~~ 29	~~14~~ 3	-51	24.~~X~~8				3 31 57	-51 4.6
~~91~~	3	28	9	-51	14.0					
	3	28	9	-51	13.9					
star: of A14269	~~3~~	~~29~~	~~2~~	~~-51~~	~~14.0~~					

cont. in Bk. 4

S. F. M.

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1930phae.proj.23199

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PK 2 Recheck:

P.	Ra	Dec		P.	Ra	Dec	
7	3 14 42	-54 43.6	-54 21.6	19	3 41 43	-53 20.4	-53 3.4
8	3 28 14	-53 8.8	-52 48.2	20	3 37 54	-53 49.4	-53 29.9
8	3 27 53	-53 11.0	-52 50.4	"	3 37 34	-53 50.7	-53 31.2
8	3 28 0	-53 18.6	-52 58.0	21	3 37 16	-54 7.0	3 39 50
9	3 24 44	-53 16.5	-52 55.5	22	3 36 32	-53 59.4	-53 39.8
"	3 23 18	-53 10.3	-52 49.1	"	3 38 10	-54 11.0	-53 50.6
"	3 22 16	-53 13.3	-52 52.0	"	3 37 44	-54 2.0	-53 42.5
10	3 28 12	-54 5.4	-53 44.7	25	3 32 12	-53 44.8	-53 24.7
"	3 28 33	-54 7.6	-53 47.0	26	3 32 18	-53 54.5	-53 34.4
11	3 27 41	-54 11.4	-53 50.7	"	3 32 25	-53 55.6	-53 35.5
"	3 27 46	-54 13.6 ~~-53 53~~	-53 52.9	"	3 32 50	-54 3.6	3 35 28
"	3 28 15	-54 12.5	-53 51.9	27	3 13 49	-53 24.4	3 16 42
"	3 31 36 ~~3 34 16~~	-54 12.4 ~~-53 52.0~~	3 34 15	28	3 22 26	-54 24.8	-54 5.5
13	3 22 8	-53 46.0	-53 24.7	"	3 22 8	-54 39.6	-54 20.3
14	3 21 52	-53 47.0	-53 25.7	29	3 22 12	-54 54.5	-54 35.2
"	3 22 27	-53 56.6	-53 35.3	33	3 37 54	-55 11.0	-54 51.5
15	3 22 7	-53 57.8	-53 38.5	34	3 40 34	-54 53.2	3 43 6
16	3 22 22	-53 18.3	-52 59.2	35	3 42 20	-55 6.2	-54 47.3
17	3 36 47	-53 29.4	-53 9.8	36	3 47 53	-53 33.7	-53 15.4
"	3 37 38	-53 28.8	-53 9.3	"	3 47 35	-53 45.0	-53 26.7
"	3 38 26	-53 28.6	-53 9.2	37	3 42 3	-53 4.8	-52 45.9
18	3 37 56	-53 7.1	-52 47.6	"	3 42 18	-53 16.4	-52 57.5
"	3 37 18	-52 57.8	3 40 5				

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1930phae.proj.232PM

41.5
4
166.0

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Bk 2 Recheck.

P.	Ra	Dec.
42	3 42 28	− 54 1.2 − 53 42.3
43	3 42 1	− 54 18.9 − 54 0.00
43	3 41 37	− 54 25.6 3 44 9
47	3 48 2	− 52 29.4 − 52 11.2
"	3 48 19	− 52 16.6 − 51 58.4
48	3 41 45	− 52 17.4 − 51 58.6
"	3 41 11	− 52 17.6 − 51 58.8
50	3 37 48	− 52 9.4 − 51 50.5
"	3 33 37	− 52 47.2 − 52 27.3
51	3 33 45	− 52 49.1 − 52 28.2
54	3 40 19	− 51 8.6 3 43 8
56	3 44 54	− 51 19.3 − 51 0.7
57	3 49 7	− 50 50.6 − 50 32.5
"	3 47 41	− 50 37.2 − 50 19.0 (?)
"	3 45 12	− 50 52.2 − 50 33.6
58	3 43 53	− 50 32.3 − 50 13.5
"	3 42 40	− 50 58.7 − 50 39.6
"	3 37 40	− 50 31.2 − 50 11.7
59	3 37 44	− 49 55.8 3 40 4
"	3 37 51	− 50 8.2 − 49 48.7
60	19 47 34	+ 19 59.2
"	19 59 44	+ 23 15.4
"	19 59 44	+ 23 15.7

P.	Ra.	Dec.
60	19 58 30	+ 23 5.8
61	8 55 58	− 57 13.3 8 58 34 (?)
62	8 36 20	− 58 12.6 8 38 38
63	15 39 20	− 67 0.8 15 43 48
"	17 43 4	− 24 42.3 17 49 12
64	7 33 25	− 57 15.6 − 57 28.8
"	7 46 58	− 55 59.3 − 56 14.5
"	15 16 56	− 78 31.5 (?) 15 30 32 − 78 53.4
"	15 0 26	− 79 33.5 + 79 57.1
65	14 32 40	− 76 6.7 − 76 32.9
66	16 35 31	− 66 23.1 − 66 35.3
"	16 51 54	− 69 16.9 − 69 26.6
67	17 32 48	− 78 59.3 17 49 17
"	16 48 52	− 77 39.1 17 3 45 − 77 49.3
"	16 31 52	− 78 44.5 16 47 22 − 78 57.2
	Pages 68 - 86 not checked.	
87	7 42 46	− 57 54.3 7 44 3 (?)
88	10 2 14	− 33 24.4 − 33 53.4
89	10 5 14	− 33 12.1 − 33 41.3
89	10 5 0	− 33 11.2 − 33 40.4
91	10 9 41	− 34 35.2 − 35 4.9 10 14 50
92	10 10 25	− 34 32.9 − 35 ? 2.7 10 16 59
"	10 12 33	− 34 16.6 − 34 46.5

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Bk 2 Recheck

P.	Ra.			Dec.					
94	10	23	19	–	32	58.8		−33	29.4
95	10	23	15	–	32	46.4		−33	17.0 (?)
"	10	23	58	–	32	11.6	10 28 31	−33	42.2
"	10	24	13	–	30	58.9	10 28 49	−31	29.5

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