

<u>Object name</u>	<u>Alternate designation</u>	<u>Type</u>	<u>Chart</u>	<u>Notes date</u>	<u>Notes</u>
Hodge/Wright 9&10		OC		27/09/10	132X 2/3 of the way from the right angle to the third star of the triangle I note two patches of more extended and fainter haze with some resolvable stars that spill across towards the hypotenuse of the triangle. These are not listed on my charts, but from Archinal and Hynes & DSS images, I find that they are HW 9 and 10.
IC 1611		OC	2	04/11/10	175X Another bright but small knot of luminosity, this is somewhat larger than Lindsay 56 but smaller and fainter than NGC 330. It forms a triangle with 2 other small fainter discs of light. The first (to the southwest and is larger and fainter than IC 1611 and the smallest of the 3 is further to the south. IC 1611 remains distinct with UHC filter, but the other two areas dim markedly.
					175X I can see why Jenni Kay described this as too faint to see – this is very faint using a 16" scope, let alone the 8" SCT used for her notes. Quite close to IC 1644, this circle of haze requires averted vision to detect. It is more extended than most of the objects in this neck of the woods.
IC 1626		OC	3,4	02/10/10	A line from NGC 419 through the brighter of the two pairs of stars mentioned above leads to a tight clump of nebulosities amongst a bunch of bright field stars. There are 3 broad clumps of haze in a line roughly E-W. The westernmost one is a complex of NGC 456 and Henize N83
IC 1644		Em Neb	2,3	02/10/10	175X This is a small round bright object that appears like a star at first but there is a faint N-S haze from the object. It looks a bit like a faint grey version of Neptune.
IC 1655		OC	1	08/11/10	175X A faint round and even disc of luminosity. Might be hard in a smaller scope. Brightens somewhat towards the centre, but not a distinct core. With 1 degree FOV, NGC 330 to 395 can be viewed simultaneously which is a splendid sight.
IC 1660		OC	1	08/11/10	175x Very faint but distinct. Round and even and brightening towards the centre. More compact than 422. Unresponsive to UHC filter.
					175X A very faint haze next to a relatively bright star, perhaps 50% larger than 299 with one discernible star in the centre and a faint star to the east.
Kron 28		OC	6	02/10/10	Following a line from 309 through 330 past a bright star one encounters NGC 376.
Kron 3	Lindsay 8	OC	9	10/09/10	175x A pleasing little knot of luminance about the same size as NGC 121, but about half as bright. It lies between the last 2 of a line of four stars running NNW to SSE. No resolvable stars. Elongated N-S.
					132X A reasonable sized (perhaps 2' across) rough oval of distinct quintessence between the westernmost pair of an E-W line of 4 stars. Brighter in the centre with brightness diminishing smoothly towards the soft edge of the cluster. No resolvable stars in the cluster itself. 175X shows a slightly dark crescent in the cluster on its north side with the convex side facing north. The southern part of the cluster is to the south of the two foreground stars. Doesn't brighten much with UHC filter, but neither
Kron 3	Lindsay 8	OC	9	04/11/10	is Kron 3's brightness diminished by the filter.
					175X An irregular patch of haze with a slight point to the east. It appears a bit like a comet with a very wide tail with a more defined core at the eastern end. Perhaps about 1' across. Almost disappears with
Kron 50		OC	1,2	04/11/10	UHC filter.
					175X This is a barely perceptible brightening against the velvet black sky located between NGC 152 and
Kron 7	Lindsay 11	OC	9	04/11/10	Kron 3. Slightly easier to make out with UHC filter. Seems about the same size as Kron 3.
Lindsay 1		OC	9	04/11/10	175X This is a fairly large (by the standards of this area of sky) circle of subtle luminosity, perhaps about

5' across. With direct vision the brightness appears very even, but with averted vision, there is some patchiness and the hint of an integral sign shaped brightening running E-W through the centre of the cluster. There is a hint of a few resolvable stars. Quite faint and not responsive to UHC filter.

175X This is quite an extended OC which is brighter at lower power (132X). There are about 10 bright stars with a background of a parallelogram shaped patch of luminosity. Looks about 5' across.

175X Another very faint oval of brightness – would be very easy to miss if you didn't know where to find it. Significantly smaller than Lindsay 1, perhaps about 1' across. More distinct SE-NW oval with UHC filter and appears about 2' across, suggesting presence of emission nebula.

175X A tiny bright knot which appears somewhat granular suggesting tightly packed stars. This is so compact it appears stellar at first glance also brightens with UHC filter.

10-

175x A haze 5' across with several resolvable stars in its centre

175X 5' diameter disc of haze with brighter centre fading gradually to soft edge, containing a few faintly resolved stars. Tends to blend in with multitude of background SMC stars. Quite bright and

much more distinct with UHC filter.

135X Fainter than NGC 395 with bright centre with clump of stars and surrounding pale haze, shaped like a broad arrowhead pointing away from NGC 395 and a curve of diminished luminosity on the 395 side, concave towards 395. 175X Somewhat fainter at higher mag and the darker curve is more distinct and the arrowhead shape is accentuated. UHC brightens the object somewhat, but the darker area is

less distinct and the whole object looks a little larger

175X Another fairly large but faint OC with about 6 resolvable stars. Somewhat brighter than Lindsay 104. Irregular shape.

175X Quite distinct but very small knot of haze, appears quite concentrated. Very close to two

foreground stars. No cluster stars resolvable. Quite a bright distinct core.

135x Very small 3' dia GC with no resolvable stars, distinct core and averted vision shows a faint halo about twice the dia of the core. Field star to the west.

10-

135x Faint, diffuse round haze > no resolvable stars, slight concentration in the centre.

175X Looks about the same size as Kron 3 but at least a magnitude fainter. Somewhat irregular in shape with small projections to the east and NW, but generally ovoid. There seems to be a slight darkening towards the eastern end and a small brightening further to the east again. Becomes much fainter with UHC filter.

175X This is situated in a right angled triangle asterism 1/3 of the way along a line from NGC 104 to Lambda Hydrus. The right angle points towards the body of the SMC. NGC 176 is found near the star at the further end of the short side, just back towards the right angle a little. 176 is somewhat more extended than many of the objects in this neck of the woods, but is still quite small with a bright centre and irregular roughly triangular haze surrounding. Possibly 1-2' across.

135x Smaller than NGC 152 – a patch of haze, but has a stream of discernible stars stretching to one side and looks a little bit like a tadpole as a result.

27/09/10

175 X Following the longer of the two sides of the right angle towards the bulk of the SMC leads to this delicate line of open clusters, which lie roughly parallel to the short side of the triangle. At the western end of the line is NGC 220, a bright circular knot. This seems to meld into the fainter oval haze of NGC

Lindsay 104 OC

OC

3

02/10/10

Lindsay 2

OC

9

04/11/10

Lindsay 56

OC

1,2

04/11/10

Lindsay 84

OC

10-
1

12/12/2009

Lindsay 84

OC

1

04/11/10

Lindsay 84

OC

1

08/11/10

Lindsay 107

OC

3

02/10/10

NGC 121

GC

8

09/09/10

NGC 121

GC

10-
8

12/12/2009

NGC 152

OC

10-
6

12/12/2009

NGC 152

OC

6

04/11/10

NGC 176

OC

6

27/09/10

NGC 176

OC

10-
6

12/12/2009

NGC 220

OC

6,7

27/09/10

NGC 220, 222,

231

OC

6,7

27/09/10

222 to the east. Further to the east again, 231 is an elegant crescent with its concave aspect facing back towards the triangle asterism that I have been using as a guide. Scattered resolvable stars are sprinkled along this crescent.

NGC 242	OC	6,7	27/09/10	175X A small bright oval with a few discernible stars, about the same size as NGC 222.
NGC 256	OC	7	27/09/10	175X Distinct and regular round knot of brightness quite close to a foreground star. If 256 is in the 8 o'clock position in relation to the star, at 11 and further away is
NGC 265	OC	7	27/09/10	175X Another small circle of haze
NGC 269	OC	7	27/09/10	175X Another small circle of haze
<p>15x70 Binoculars. The SMC spills out well beyond the FOV of these binoculars. Nearby worthies Although not part of the SMC, 47 Tucanae and NGC 362 require comment. 47 Tucanae is very obvious as a striking globe of light with a distinct core surrounded by smooth regular halo. NGC 362 is also a distinct orb of light with a bright core, but fainter and smaller than 47 Tuc. SMC Overall The SMC itself appears as a comma shape of bright haze with its head close to 47 Tuc and pointing south. Eastern section To the east, the tail of the comma, near NGC 362 contains 3 distinct globules. Firstly NGC 330 is about 1/3 of the way into the comma from the tail and which is small and quite bright. Closer to the tip of the tail is the larger and slightly fainter NGC 346 and closest to the tail of the 3 bright objects is NGC 371. Beyond this is the fainter NGC 395. Tracing south is a line of stars and beyond is a patch of nebulosity just to the east of the midpoint between 2 bright stars and which appears detached from the SMC. This is the group of clusters containing NGC 456,460 & 465. At first this appears a homogeneous area of haze, but close inspection shows dark lanes separating the component clusters. Further to the east is a smaller and fainter circle of haze, which is NGC 602. Between NGC 371 and NGC 362 is a line of three stars. Close to the leftmost one is NGC 411. Further to the left/east and a bit to the north NGC 458 can also be discerned. Western section Between 47 Tuc and the head of the comma is a small right-angled triangle asterism with 2 brighter stars forming the base near the SMC and the fainter star closer to 47 Tuc. The right angle is close to the body of the SMC. On the opposite side of the SMC to this asterism is another area of distinctive haze which is comprised of NGC256/265/269. I have the impression of a wide trail of luminosity extending south-west from the head of the comma to the west of Lambda Hydrae, but containing no distinct objects. In the head of the comma itself, there is a patchiness to the luminosity but I'm not able to discern particular objects. One of these patches does</p>				
NGC 292	SMC	GX	bin	08/11/10 line up with one side of the triangle in a way that suggests it may be NGC 248, but I'm not convinced.
NGC 306/299	OC	5	02/10/10	175X Forming an equilateral triangle with NGC 330 and 346 is NGC 306. Nearby to the north is NGC 299 – a very small and bright patch of silver haze with a small tail to the south. The cluster is irregularly shaped, but not much larger than some of the neighbouring stars. It has a few faintly resolvable stars.
NGC 330	OC	10-2	12/12/2009	306 is smaller again and somewhat fainter with slightly grainy texture, 175x 4' across. Elongated in SE-NW direction, lots of faint stars in patchy nebulosity with strands coming out to South and North and a few stars scattered to the East. Strong central concentration of stars with surrounding faint haze of nebulosity
NGC 330	OC	2	04/11/10	175X Larger than Lindsay 56 but smaller than the core of NGC 346, this is a very beautiful little pack of stars, very bright in the centre with a distinct N-S s- curve of brightness and resolvable stars giving an appearance akin to an open spiral galaxy. Perhaps about 2'x1'. Enhanced by UHC filter, but not to the extent that NGC 346 is.
NGC 339	OC	4	10/09/10	175x Faint slightly oval mist oriented N-S. Appears smooth with no resolved stars. Brighter in the

centre, but smooth gradient of brightness to the edges.

175x Covers 7' Bright clump in middle of cluster with many resolvable stars. To the South the haze drops into a dark bay with edge of stars in a line that continues well beyond the boundary of the haze to the East. To the North of the central cluster is a dark patch like an inlet.

175X This is embedded in the larger Henize nebula 11. NGC 346 is a very bright area spanning about 7'x4' with a delightful bright knot of resolvable stars in the centre. The NGC 346 component appears curved with the convex to the west, fatter to the north. Henize N11 is a smooth area of haze which appears about 3x the size of NGC 346 which fades out evenly, a few resolvable stars scattered throughout. N11 extends much further to the east of NGC 346 than to the west. There is a little darkening of Henize N11 to the east and then a faint brightening before it disappears completely. Both NGC 346 and N11 brighten considerably with UHC filter and the edge of N11 appears sharper with UHC filter. N11 sprawls off to the east and north with a branch spreading into IC 1611. There is a flat edge to the south west.

132x appears almost as a faint elliptical galaxy with distinct central brightness. A small Y shaped asterism to the SW points to the bottom of the cluster

175X Very distinct and compact with distinct core. Very round and even. Unresponsive to UHC filter.

175X A quite large circle of many resolvable stars and luminosity, only slightly smaller than the magnificent NGC346/N11 complex. The haze extends in an anvil shaped projection to the southeast and in a second projection to the northwest. The circular central portion of 371 brightens considerably with UHC, but the projections become fainter.

175X A small quite bright cluster of resolvable stars forming a narrow triangle (base to east, apex west) against an E-W oval haze. Very few field stars.

Within one 28' FOV to the east is NGC 419

175x A triangular patch of haze with a line of small discernible stars to the North. 2' across. IC 1624 is about half that size and is a small oval shaped smudge of haze.

175X This is significantly fainter than 346 and 371. It is an arrowhead shape of faint resolvable stars and luminosity pointing south with a chunk of darkening at its northern edge. 5' to the south is IC 1624, a small luminous knot against a faint haze which appears to extend from NGC 395. There appears to be a larger area of faint haze in which two brighter areas – NGC 395 and IC 1624 – are embedded. UHC filter makes these two bright areas more distinct, the background haze visible but fainter. The arrowhead shape of 395 remains and looks about 5' long and about 3' wide at its base. IC 1624 appears about 1'x2'

175X A distinct small round knot of luminance with a small bright star at the western end. Grainy

appearance but no resolvable stars. Better viewed with averted vision. Not responsive to UHC. (my Night sky Obs Guide lists this one as an open cluster as do Archinal and Hynes in "Star Clusters, Morel lists it as a GC and there is one research paper on it as a GC, so I assume that this is correct).

175x A small faint circular smudge, with a few stars at the western edge. In the same FOV NGC 422 OC in SMC 175x is an even smaller and fainter circle of haze.

175x Round haze, very faint with no resolvable stars 2' dia

NGC 346	OC	10- 1,2,5 12/12/2009	
NGC 346	OC+Em neb	1,2,5 04/11/10	
NGC 361	OC	10- 1 12/12/2009	
NGC 361	OC	1 08/11/10	
NGC 371	OC	1 04/11/10	
NGC 376	OC	2 02/10/10	
NGC 395	OC	10- 1 12/12/2009	
NGC 395	OC	1 04/11/10	
NGC 411	OC	1 08/11/10	
NGC 411 GC	GC?	10- 1 12/12/2009	
NGC 416	GC?	10- 2 12/12/2009	

175X A very round regular disc of luminosity, concentrated in the centre and gently fading out to a broad halo. Significantly larger than NGC 376. No resolvable stars. Certainly looks like a GC

To the south of NGC 419 are 2 pairs of stars, each pair comprising a bright and fainter star, the westernmost pair is fainter than the easternmost pair. Following a line from NGC 419 through the fainter star of the western pair brings me to IC 1644

175x Significantly brighter than NGC 416, looks more clearly like a GC dia 3' again no resolvable stars. Seems very compact but no discernible core.

175X about half the size and brightness of 411 and elongated slightly E-W. Not responsive to UHC.

175X NGC 456 is a small bright NE-SW oval embedded in SE corner of a much larger fainter area of haze with some resolvable stars, Henize N83 which looks about 4' across.

175x All three in FOV. NGC 456 is the one closest to NGC 419/IC1644. It is roughly roundish, slightly triangular haze with quite a few discernible stars with a bright knot to the South. NGC 460 looks to me to be in 2 parts. To the North, a bright clump with no resolvable stars and a larger, fainter area of haze to the South with several discernible stars. NGC 465 is quite close to 460 and appears Y shaped with a Y-shaped asterism points to the cluster from the north, to the south is a darker patch in the middle of an oval shaped haze. The string of OCs spans 20' and is about 5' across. Each element about 5' dia. UHC filter brightens the knot in the north of NGC 460 and doesn't change much else in the field suggesting much of the haze is nebulosity rather than stars.

175X A bright small disc of haze which is mostly a bright, grainy core and small soft halo which looks more extended towards the east. Unresponsive to UHC filter.

175X On the NW side is a bright small oval, NGC 460 embedded in the southern part of a fainter circlet of haze, Henize N84. To the south of this is a larger area of haze, Kron 66 and Henize N84B

175X This is the largest and most irregular object of this line of clusters with quite a few bright resolvable stars against a broad faint glow. With some imagination, this cluster could be the outline of a boot, with the ankle to the south, the heel SE and toe to the west. Somewhat darker in the middle.

175X This is a bright oval of haze oriented SE-NW. Again, fairly extended – perhaps 4'x2'. Seems to have a bright core in the eastern half with a few stars in front of it. The brightness diminishes abruptly to the soft halo which extends more to the west.

NGC 419	GC?	2,3	02/10/10	
NGC 419	GC?	10-		
NGC 422	OC	2,3	12/12/2009	
NGC 456 + Henize N83	OC + Em Neb	3,4	02/10/10	
NGC 456, 460 & 465	OC	10-		
NGC 458	OC	3,4	12/12/2009	
NGC 460/Henize N84/84B/Kron 66	OC + Em Neb	1	08/11/10	
NGC 465	OC	3,4	02/10/10	
NGC 602	OC + Em Neb	3	02/10/10	