MUSCA

Tele: 16-inch S/C – FL 4064mm (f10) - 290x - 462x - Date: 3 April 2006 - Visibility: 4.5

Revisit: 23 April 2020
Sky limit 4.5, - (8+ out of 10 visibility - clear)
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'

Revisit: 23 April 2020
h: 4432 - Double Star - Musca
RA: 11h23m.4 - DEC: -64º57'
Magnitude of stars: 5.4 and 6.6 - Separation: 2.3".. - "... - Position Angle: 303... *307˚*
Tele: 16-inch S/C – FL 4064mm (f10) - 290x - 462x - Date: 22 March 2003 - Visibility: 5.
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
It seems to me that the position angle is slightly towards 307˚ if measure against the stars in the field with cross hairs. Primary had a soft yellow color with a white companion. Could it be that the separation is a fraction smaller?

Revisit: 23 April 2020
h: 4450 - Double Star - Musca
RA: 11h31m.8s - DEC: -73º54'
Magnitude of stars: 6.9 and 10.8...*12-12.5* - Separation: 21" - Position Angle: 40.. *44˚*
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
Position angle greater since 2006, estimated now 44˚ been measure against the stars in the field with cross hairs. The primary must say a darker yellow with a blue-white companion. The companion is much fainter estimated compare to field star at least a 13 magnitude.

Revisit: 23 April 2020
h: 4498 - Double Star - Musca
RA: 12h06m.4 - DEC: -65º43'
Magnitude of stars: 7 and 8 - Separation: 1" - 8.7" – C – *9* - Position Angle: 119 – 60.... *55˚.*
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
Position angle could also change slightly for AB and C, estimated 55˚. Could not find a magnitude for the C companion but estimate it close to 9-magnitude now.

Revisit: 23 April 2020
h: 4522 - Double Star - Musca
RA: 12h25m.5 - DEC: -69º29'
Magnitude of stars: 7.9 and 8.9 - Separation: 12.8" - Position Angle: 67
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
Position angle is the same. Primary cream and blue/white companion.

Revisit: 23 April 2020
Don: 528 - Double Star - Musca
RA: 12h28m.2 - DEC: -70º33'
Magnitude of stars: 7.7 and 12.5… *-?* … - Separation: 9.6" - Position Angle: ?... *47˚*
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1' - Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
In the DSC no position angle been given. So, I measure it against stars in the field with cross hairs and came to about 47˚. The companion could only be seen with averted vision.

Revisit: 23 April 2020
I: 296 - Double Star - Musca
RA: 12h39m.2 - DEC: -75º22'
Magnitude of stars: 6.7 and 8.7.. -? - Separation: 2"...1"+ - Position Angle: 273.... 260˚
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1'
Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
The position angle change to about 260˚ as measure against stars in the field with cross hair. The primary displays a slight dusty white. The primary and companion is very close (separation less than 2") could barely be seen, a hair thin split with a 5.5mm eyepiece at 812x. The companion is only seen with averted vision which indicated a clear drop in magnitude, perhaps more than a magnitude. Difficult in the glare of the primary to estimate magnitude.

Revisit: 23 April 2020
h: 4550 - Double Star - Musca
RA: 12h48m.3 - DEC: -67º08'
Magnitude of stars: 8.1 and 9.1 - Separation: 13.6" - Position Angle: 98...+
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1'
Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
Seems position angle does not change but if it could be increased very slightly. Companion blue/turquoise. Magnitude of stars same.

Revisit: 23 April 2020
Gli 185 - Double Star - Musca
RA: 12h49m.0 - DEC: -65º36'
Magnitude of stars: 7.6 and 9.5 - Separation: 8.6" - Position Angle: 9... 7.6˚
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1'
Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
The position angle seem very close, could drop slightly to 7.6˚, as measure with metric. The primary is still a dusty white color with a stone to yellow, magnitude the same.

Revisit: 23 April 2020
h: 4586 - Double Star - Musca
RA: 13h28m04s - DEC: -67º52'
Magnitude of stars: 7.6 and 9.1 - Separation: 3.1" - Position Angle: 144...-
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2" - Ultra Wide 40mm – 102X – Eyepiece: 2" – 52.8'
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5".8
Eyepiece: 2" - Ultra Wide 14mm – 218X – 23.1'
Eyepiece: 2" - Ultra Wide 8.8mm – 346X –14.6'
The position angle seems right, although perhaps slightly less. The companion is a deep orange.

Revisit: 23 April 2020
I: 298 - Double Star - Musca
RA: 17h32m05s - DEC: -69º14’
Magnitude of stars: 7.2 and 8.8 - Separation: 8”...+”- Position Angle: 187
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2” - Ultra Wide 40mm – 102X – Eyepiece: 2” – 52.8’
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5”.8
Eyepiece: 2” - Ultra Wide 14mm – 218X – 23.1’
Eyepiece: 2” - Ultra Wide 8.8mm – 346X –14.6’
I could spot the companion, but the separations seem larger than 0.8”.
In the year 2006 the companion was not visible to me.

Revisit: 23 April 2020
h: 4596 - Double Star - Musca
RA: 13h37m.4 - DEC: -64º56’
Magnitude of stars: 8.3 and 8.5 - Separation: 1.4” ...-“....- Position Angle: 282....-
Telescope: 16-inch Schmidt-Cassegrain - Focal Length 4064mm (f10)
Eyepiece: 2” - Ultra Wide 40mm – 102X – Eyepiece: 2” – 52.8’
Use of a Metric Eyepiece – 1 segment on 16-inch - 40mm = 5”.8
Eyepiece: 2” - Ultra Wide 14mm – 218X – 23.1’
Eyepiece: 2” - Ultra Wide 8.8mm – 346X –14.6’
This pair is an oval image, no split must be less than 1.4”. Seems the position angel is less by a fraction.