

VOLANS

HJ 4023 – VOLANS – A9III

RA: 07h50.8 - DEC: -70°47' - Brightness of stars: AB - AC- 8.5 and 8.8 – 13.5

Separation: 2" – 12" – PA: 219 and 18

Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

The primary shines in a light-yellow colour. Picked up the companion in a PA of about 212 to 219, perhaps slightly less than the indicated 219, with the companion nearly touching the primary which indicated a separation of 2" or a little less. The third companion was seen only with averted vision (magnitude 13.5) I measure the companions against the background star field with a cross hair eyepiece, but only an estimate.

Revisit 13 March 2021

Brightness of stars: AB - AC- 8.5 and 8.8 – 13.5? - 14

Tel: 16-inch - 102x - 127x – 462x - 13 March 2021 – V: 5.2

The double star AB seems correct.

The third companion AC seems to be fainter than in 2013.

HJ 4055 – VOLANS – K5III + K5III

RA: 08h05.5 - DEC: -69°51'.5

Brightness of stars: 8.7 and 8.7 - Separation: 6" – PA: 190

Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

Both stars shine with yellow to orange colour the primary a slight denser, both easy and similar in brightness and as seen with first glimpse. The position angle slightly less perhaps closer to 187, separation seem as indicated. Around the two stars fainter stars can be seen perhaps more companions, but none given in the WDS.

Revisit 13 March 2021

Tel: 16-inch - 102x - 127x – 462x - 13 March 2021 – V: 5.2

No change perhaps more yellow in colour.

I 9 – VOLANS – A8III

RA: 08h14.7 - DEC: -73°48'.5

Brightness of stars: 7.3 and 7.5 - Separation: 1" – PA: 310

Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

The primary shines in a nice super white colour. Only with the highest magnification 462x, could I glimpse the companion about to merge into the primary with only a hair split. If I measure the companion against stars in the field, I came to the conclusion that perhaps the position angle increases slightly.

Revisit 13 March 2021

Separation: 1" – PA: 310 – less - Use of a Metric Eyepiece – 1 segment - 16-inch = 5".8

Tel: 16-inch - 102x - 127x – 462x - 13 March 2021 – V: 5.2

Use of a Metric Eyepiece – 1 segment on 16-inch = 5.8"

I could hardly spot the companion (blue colour) touching the primary. The PA seems to be less, estimate just past 0°.

HRG 19 – VOLANS – 1882 – K0III

RA: 08h48.4 - DEC: -65°26'.5

Brightness of stars: 7.3 and 10.2

Separation: 4".4 – PA: 181 - Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

The primary and companion both shines in a lovely yellow-orange colour with the primary a slightly darker orange. The companion as easily split and measure against stars in the field is perhaps more in a position angle of 180.

Revisit 13 March 2021

Separation: 4".4 – 5 – PA: 181

Use of a Metric Eyepiece – 1 segment - 16-inch = 5".8

Tel: 16-inch - 102x - 127x – 462x – 13 March 2021 – V: 5.2

There seems to be no change in separation and colours. The PA however seems to be increase. Measure with my micro eyepiece it shows more than one dimension which calculated to 5.1.

HJ 4164 – VOLANS – K0III

RA: 08h57.4 - DEC: -66°12'

Brightness of stars: 7.3 and 9.5

Separation: 10".7 – PA: 145

Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

The primary shines with a pale-yellow colour. The indicated magnitude, separation and position angle seems to be correct.

Revisit 13 March 2021

Use of a Metric Eyepiece – 1 segment - 16-inch = 5".8

Tel: 16-inch - 102x - 127x – 462x – 13 Marc 2021 – V: 5.2

My metric measurements show it to be the data is correct.

Did not spot the third companion, but will get back to this one soon.

SLR 16 – VOLANS – B9III/IV

RA: 09h03m.8 - DEC: -64°41'.5

Brightness of stars: 7.6 and 9.4

Separation: 0."9 – PA: 315 (1991)

Tel: 16-inch - 102x - 127x – 462x - 9 January 2013 – V: 5

With much effort and high magnification, the primary shows a definite oval impression and white in colour. Against the star field I estimate the direction with difficulty and was pleased to discover that the oval direction was compatible with the indicated potion angle of 310. My conclusion is that the separation is probably less than 1" if compare to I 9 which is also 1" in separation and could be split.

Revisit 13 March 2021

Separation: 0."9 – PA: 315 (1991)

Tel: 16-inch - 102x - 127x – 462x – 13 March 2021 – V: 5.2

After a long and intensive observation, the companion is not seen!!