

SEPTEMBER 2007 – TEST DOUBLES IN NORMA

Here is the seventh list of double stars to observe in the AAQ resolution survey. Spend some time looking at the difficult ones before you assign a “non-split”.

For information on the survey, go to the [AAQ website](#) and look for Special Interest Sections > Double Stars > AAQ Resolution Survey. There you will find an article on the survey, instructions, finder charts for the stars, and the report form.

Download the instructions from

http://www.aaq.org.au/PDF_Documents/DoubleStars/Survey_intro.pdf.

Collect a report form at monthly meetings, or download at

http://www.aaq.org.au/PDF_Documents/DoubleStars/Report%20form%20V3.pdf

Email your results to Tim Napier-Munn at tgn-m@bigpond.net.au or bring them to the monthly meetings.

Work up to the highest possible magnification that the seeing will allow. 400-500x for an 8" is fine! Don't forget to record the seeing according to the diagram on the report form.

DON'T FORGET TO SEND IN YOUR OBSERVATIONS !

HLD 124 (RA. 15 45.0 Dec. -50 47) mags. 6.6 & 8.4, sep. 2.2", pa. 194° (1991). Should be possible in most telescopes in good seeing.

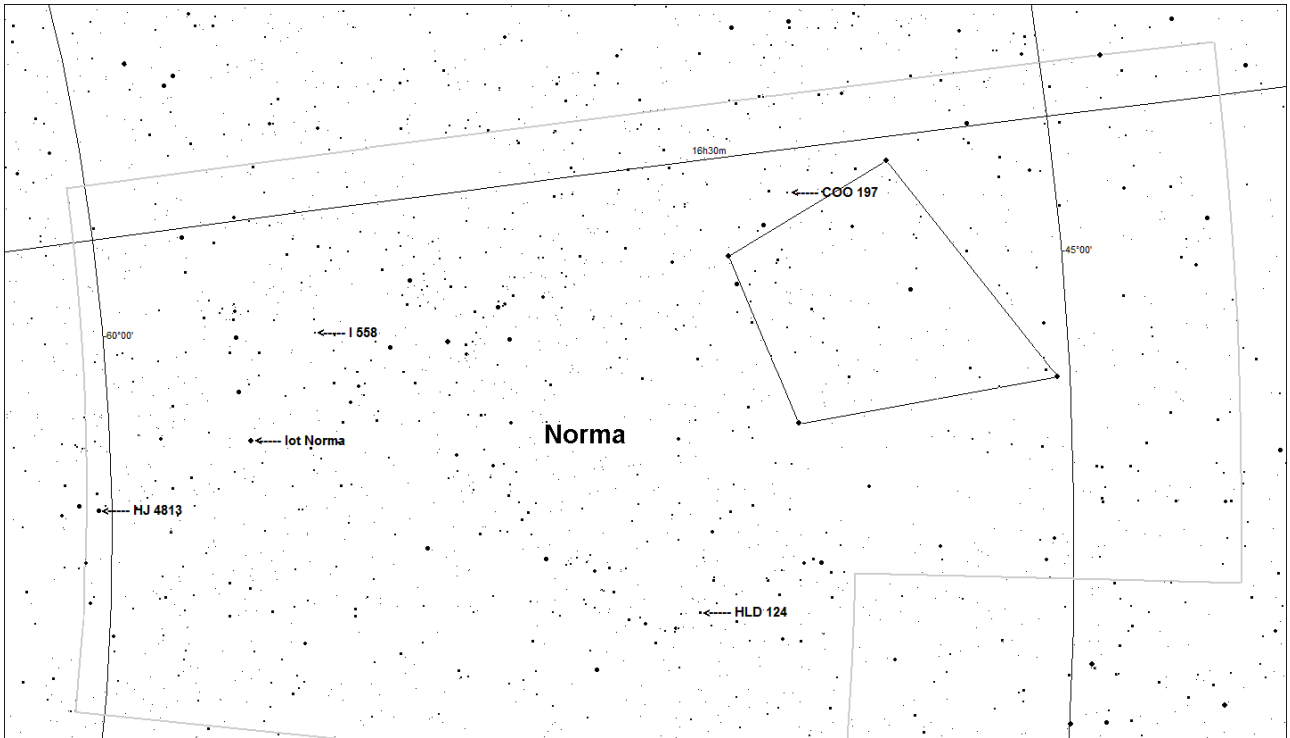
HJ 4813 (RA. 15 55.5 Dec. -60 11) mags. 5.9 & 8.4, sep. 4.4", pa. 100° (2000). Easy.

lot Nor, HJ 4825 (RA. 16 03.5 Dec. -57 47) mags. 5.3 & 5.5, sep. 0.5", pa. 295° (2000). For larger 'scopes. There is an 11th mag. companion 8" away at pa 243°, but it is the bright one we want to split. I have done it in the 14" SCT at magnification 861x.

I 558 (RA. 16 15.6 Dec. -56 41) mags. 8.2 & 9.7, sep. 1.7", pa. 50° (1991). Moderately difficult, due to a combination of the primary magnitude, the magnitude difference, and the separation. Seeing will be important here.

COO 197 (RA. 16 25.3 Dec. -49 09) mags. 8.1 & 8.2, sep. 2.1", pa. 109° (1991). A good test for smaller 'scopes because the stars are of similar magnitude. Dawes says a 2" 'scope can split this, but that is based on stars around 6th magnitude. The current AAQ model predicts a 50% probability of splitting with a 4" 'scope at average seeing (3).

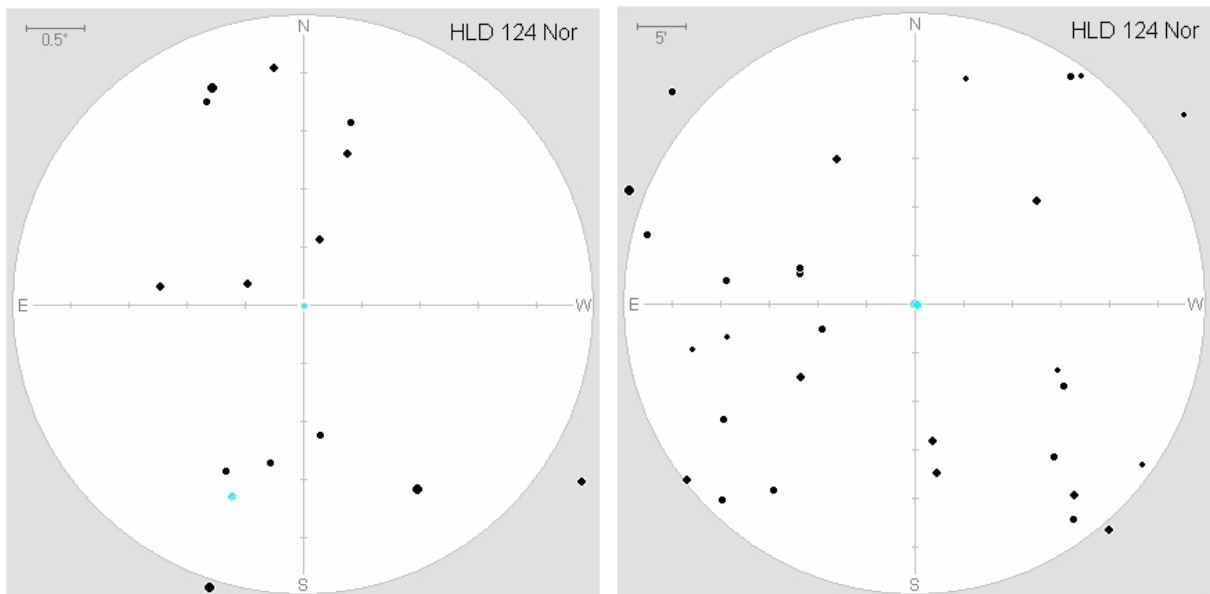
Finder Chart for the Test Doubles in Norma



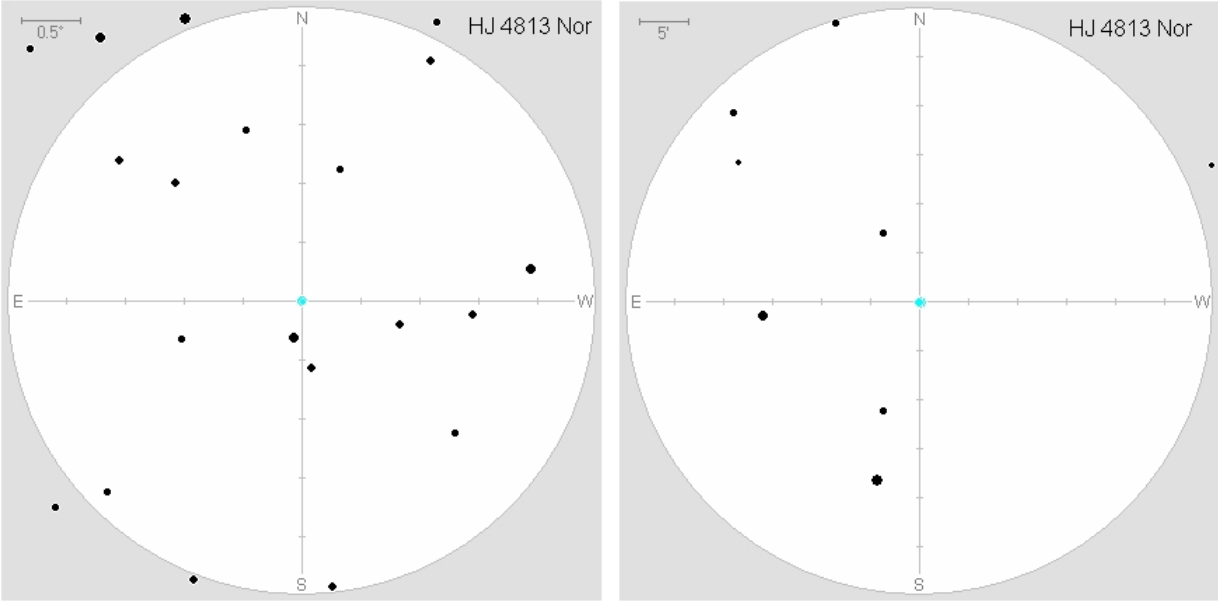
Eyepiece Finder Charts for AAQ September Doubles, in Norma

Note: The left hand chart has a 5° (finder) field of view, with stars shown to approx. magnitude 7. The right hand chart has a 1° (eyepiece) field of view, with stars shown to approx. magnitude 10. The target star is on the cross hairs at the centre of the image. North is up and East to the left, to conform to the view through a finder, refractor or a simple Newtonian without a star diagonal; turn the chart to orient north and south to conform to your view through the finder or 'scope. If you are using an SCT with a star diagonal, the E-W directions will be reversed.

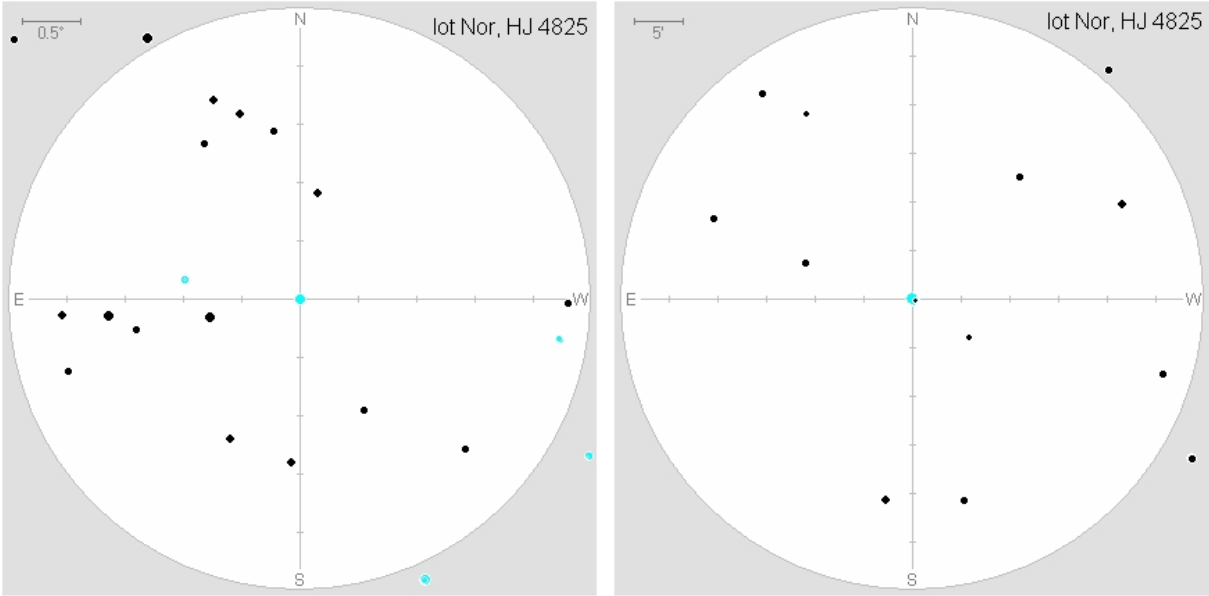
HLD 124 (RA. 15 45.0 Dec. -50 47) mags. 6.6 & 8.4, sep. 2.2", pa. 194° (1991).



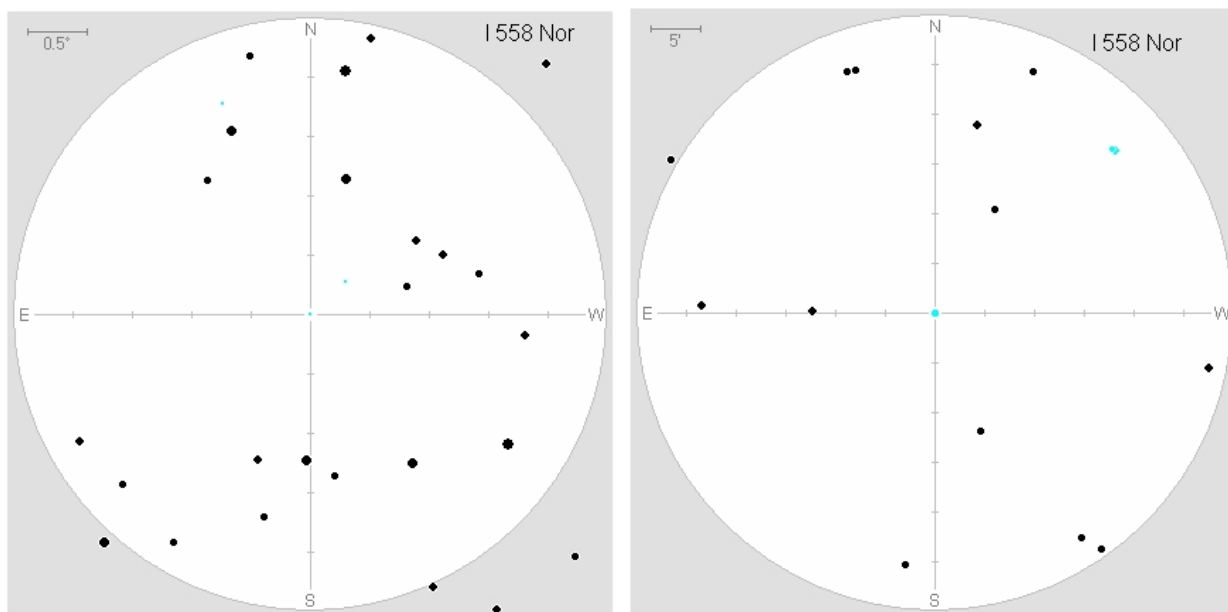
HJ 4813 (RA. 15 55.5 Dec. -60 11) mags. 5.9 & 8.4, sep. 4.4", pa. 100° (2000).



lot Nor, HJ 4825 (RA. 16 03.5 Dec. -57 47) mags. 5.3 & 5.5, sep. 0.5", pa. 295° (2000).



I 558 (RA. 16 15.6 Dec. -56 41) mags. 8.2 & 9.7, sep. 1.7", pa. 50° (1991).



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