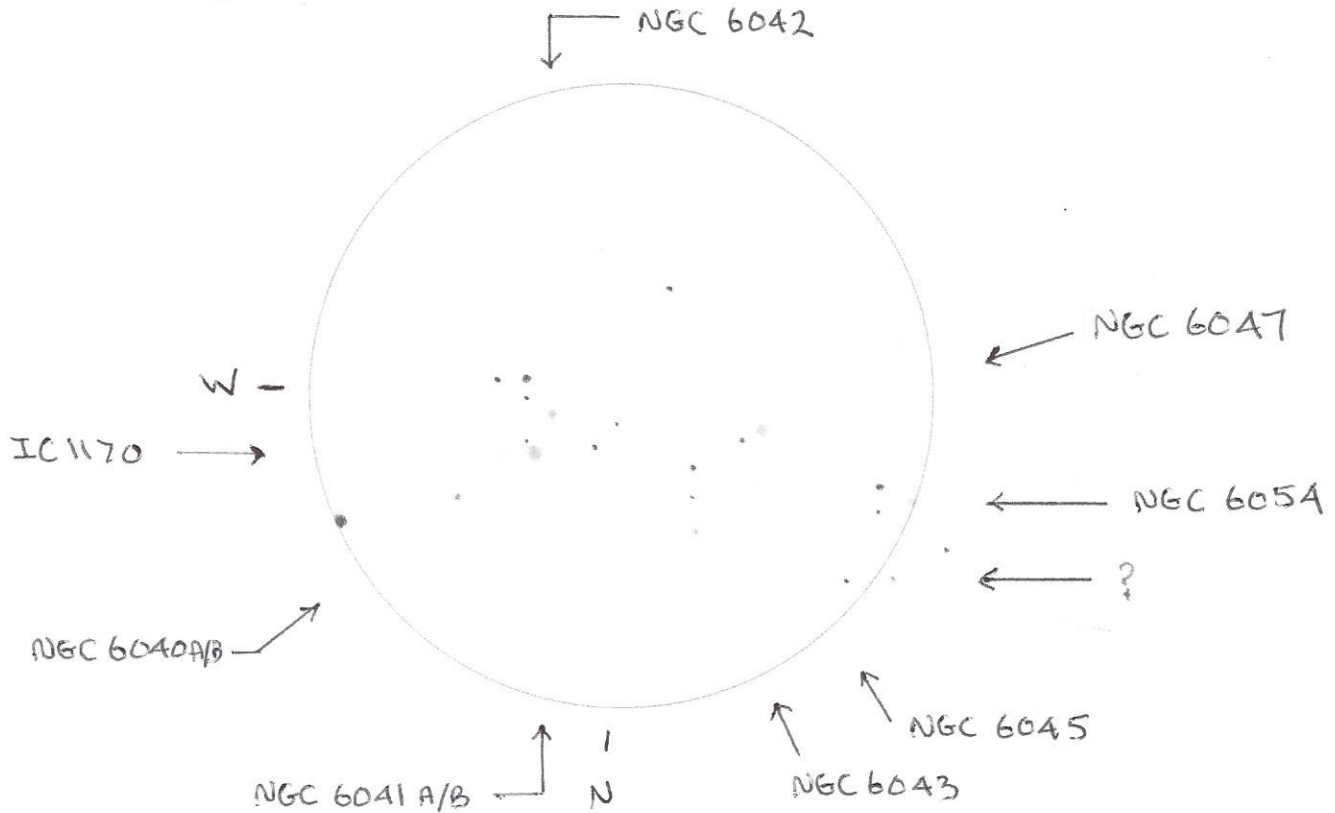


GALAXY GROUPS & CLUSTERS OBSERVATION RECORD

Date: 13 August 2015
 Time Started: 2115 CDT Time Finished: 2215 CDT
 Location: Huntingdon, TN
 Weather: Mostly Clear w/ some light clouds
 Transparency (1-5): 3/5 Seeing (1-5): 4/5
 Faintest Naked Eye Star:
 Telescope: 18" Obsession - f/4.5 - f/1.81"
 Eyepiece: 40mm Plossl & 7mm TeleVue Nagler Type 6
 Magnification: 294x FOV: 16.7'
 52x 49.6'

Object ID: Abell #38 (Abell 2151)
 The Hercules Cluster of Galaxies
 Coordinates: 16 05.2 +17.7
 Constellation: Her
 Magnitude Range: 13.5 →
 Size Estimate: 40'
 No. of AV Galaxies: 9
 No. of DV Galaxies: 0



Description (Pattern? Distribution even or uneven? Galaxies superimposed or signs of interaction? Nuclei, dust lanes, spiral arms? Estimate on AV scale): A long rectangular group of fairly dim galaxies.

- N 6041 A/B - AV3 - Roundish. Dim, but slightly brighter & bigger than N 6042 near very dim star. Could not really separate A & B components.
- N 6042 - AV3 - (Duplicate listing as N 6039) Roundish - very dim fuzzy spot - cloudlike.
- IC 1170 - AV4 - small & dim elongated fuzzy
- N 6040 A/B - AV4 - vague cloud - larger - occasional stellar nucleus (6040 B?)
- N 6047 - AV3 - Roundish cloud near star
- N 6045 - AV3 - Dim, very elongated streak
- N 6043 - AV4 - Round. Extremely dim but brighter nucleus
- N 6054 - AV3 - small, round, and very dim
- Reference: ? - AV4 - very small and round. Concentrated.

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These are the brighter galaxies of the cluster. There are many more dimmer galaxies.