

The Observer's Challenge Objects

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November: IC10 – Galaxy, Cassiopeia; Mag. V=10.4; RA: 00h 20m 17s Dec. +59° 18' 14''

Galaxy IC10 is located in the Fall constellation of **Cassiopeia** - 'The Queen', and is about 1.5 deg from the bright 2nd mag star Caph (Beta Cas). Due to its location, IC10 is somewhat obscured by the Milky-Way. IC10 is classified as an Dwarf Irregular galaxy type and is about 2 million light years distant, and with a diameter of about 5,000 light-years across. IC10 is a member of the Local Group galaxy cluster which the Milky-Way belongs too.

IC10 was first discovered in October 1887 by amateur astronomer Lewis Swift using the 16" Clark refractor at the Warner Observatory in Rochester, NY. Swift described the object as: '*a faint star involved in a very large, extremely faint nebulosity, extremely diffuse*'.

EAA-Capture: 09/11/2023, from Cherry Springs State Park at the BFSP in Western Pennsylvania. Using a 8" SCT optical tube @ f6.3 on a Gem mount, with a CMOS color camera and broadband filter, 180 second exposure, live-stacked for 45 minutes.



The galaxy is a dim oblong semi-oval shape, but has a bright region of several identifiable OB Association star clusters, HII regions, and several dust lanes.