

IC410 The Tadpole Nebula

This is an image of IC 410 also known as the Tadpole Nebula (see the tadpoles) captured on my setup in Castelléjar, Spain, over many nights in November and December, 2022. IC 410 is about 12,000 light years away located in the constellation Auriga. The entire nebula is about 100 light years across. The tadpoles are actually dense streams of dust and gas about 10 light years long. You may notice a demarcation of light and dark areas running down the left center of the image. At first, I thought I had a problem with my equipment but upon inspecting other images of this target, I could see it in all of them particularly at my focal length. So I assume it is due to the star cluster that is energizing the hydrogen gas in this nebula. As with most of my nebula images, it was shot with narrow band filters and RGB stars. The exposures are as follows:

SII 73 x 600 seconds

Ha 72 x 600 seconds

OIII 71 x 600 seconds

Total 36 hours

RGB Stars 2.6 hours

The link to my Astrobin page for this image is as follows:

<https://astrob.in/q2fxp5/0/>

A note to the processors in the group - I used the new Color Mask Mod script in processing this and I highly recommend it. It allows you to add as many colors as you want in the mask which enables you to target very different areas.

Tom Engwall

(Scroll down for a finding chart)

