

Member's Minute:

The Many Faces of the Flame Nebula, NGC2024



Doug Holland



Image of Horsehead / Flame Nebula Area
Taken Christmas Eve's Eve 12/23/13

Note difference in:
IC434, Emission Nebula; and
NGC2024, Flame Nebula

RGB Comparison of NGC2024 and IC434



Red



Green



Blue



Red



Green



Blue





NGC2024 – The Flame Nebula: RGB



The Holland Observatory
1/3/14

NGC2024 - The Flame Nebula in Orion
[RGB - L: Ha; R: SII(7x10min); G: Ha(7x10min); B: OIII(7x10min)]
200mm Newtonian f/5, SC285 Camera

NGC2024 – The Flame Nebula: Narrowband (Visible Spectrum)

Yellow: Hydrogen Alpha, 656.3nm; Magenta: Sulfur II, 672.4nm; Cyan: Oxygen III, 500.7nm



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1/17,18/13

NGC2024 - The Flame Nebula in Orion
NIR - L: >700nm 22x5min; R: >880nm 10x5min;
G: 800-900nm 10x5min; B: 700-800nm 13x5min
200mm Newtonian f/5, SC285 Camera

NGC2024 – The Flame Nebula: Near Infrared
Red: 880 to 1100nm; Green: 800 to 900nm; Blue: 700 to 800nm

RGB

Narrowband

Near Infrared



Red



Magenta:
SII, 672.4nm



Red:
>880nm



Green



Yellow:
Ha: 656.3nm



Green:
800-900nm



Blue



Cyan:
OIII, 500.7nm



Blue:
700-800nm



So -

Even though The Flame and The Horsehead are both emission nebulae, they have very different spectra.

Conclusion –

Not all emission nebulae are created equal....



IF YOU HAVE AN IDEA FOR A MEMBER'S MINUTE

Please consider presenting it at a future meeting!!!