

Medzvezdni prostor

- **ni povsem prazen, ponekod blizu pogojem Jeansove nestabilnosti.**
- **temne meglice**
- **refleksijske meglice**
- **emisijske meglice: območja ioniziranega vodika (H II), planetarke, ostanki supernov, ...**

Temne meglice



Vreča oglja (Coal Sack)



Barnard 68



Konjska glava (HorseHead)

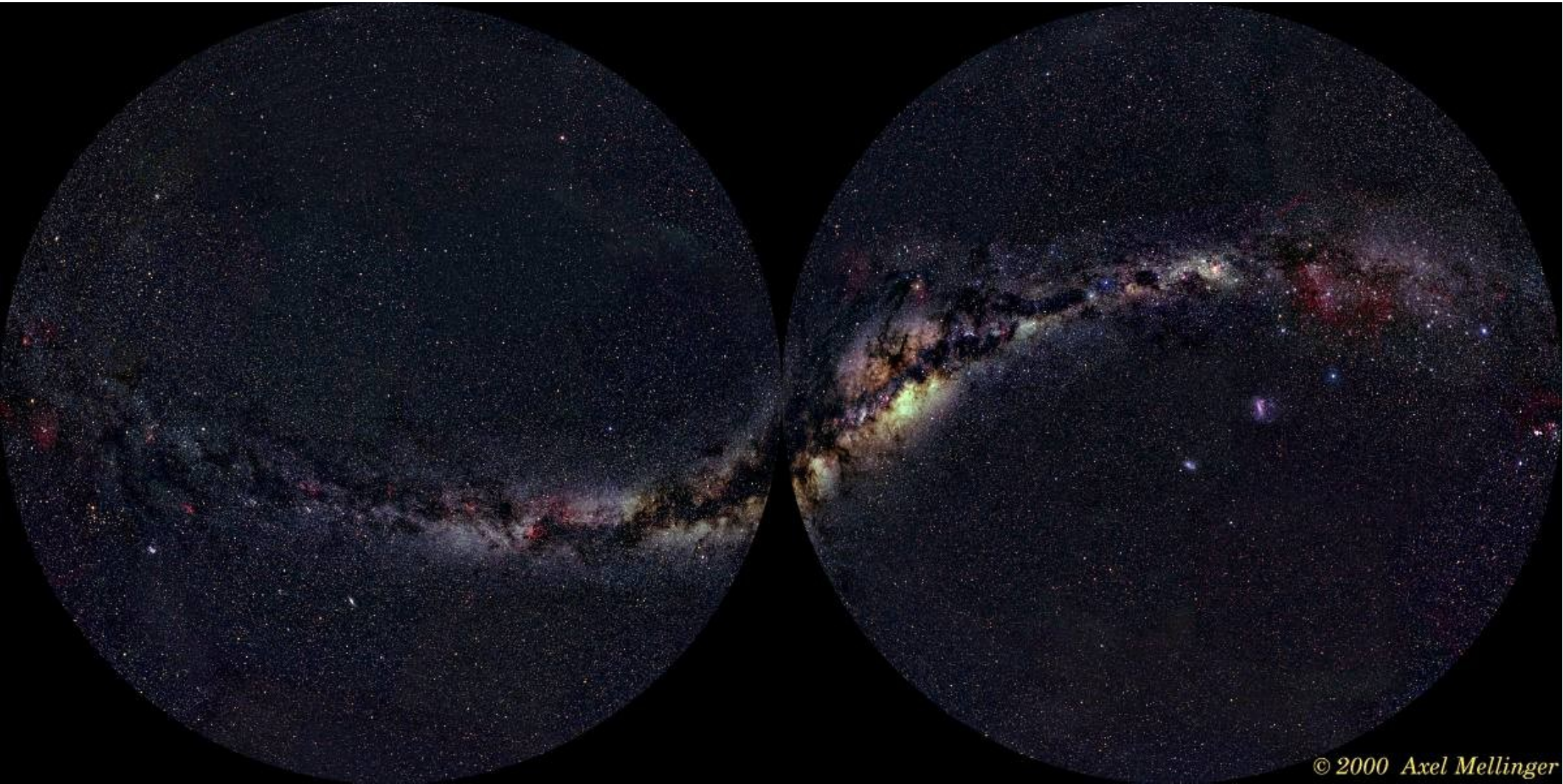
IC 434

© Anglo-Australian Observatory

Zvezde



Nebesna panorama



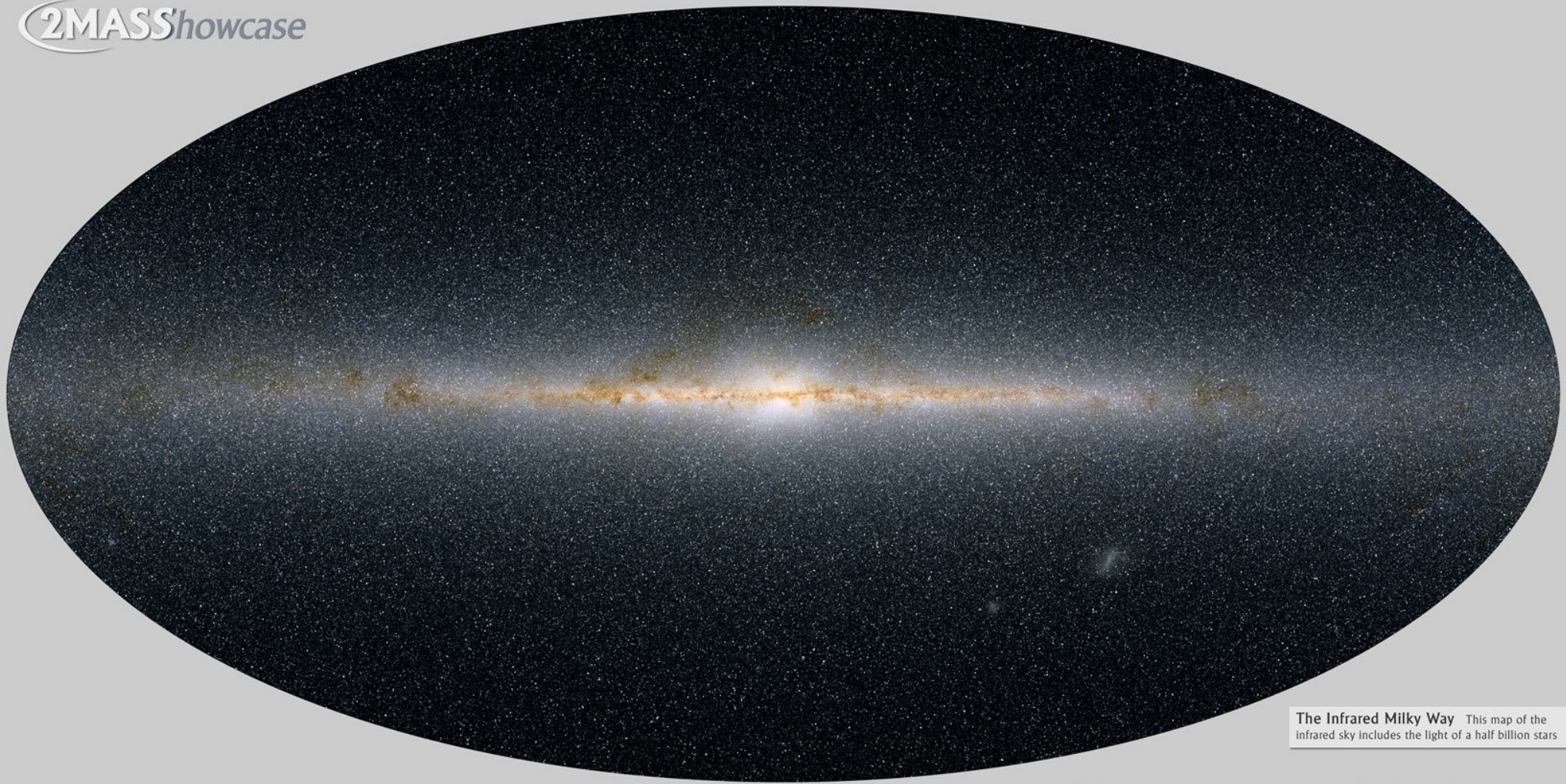
© 2000 Axel Mellinger

Nebesna panorama



Nebesna panorama v infrardečem

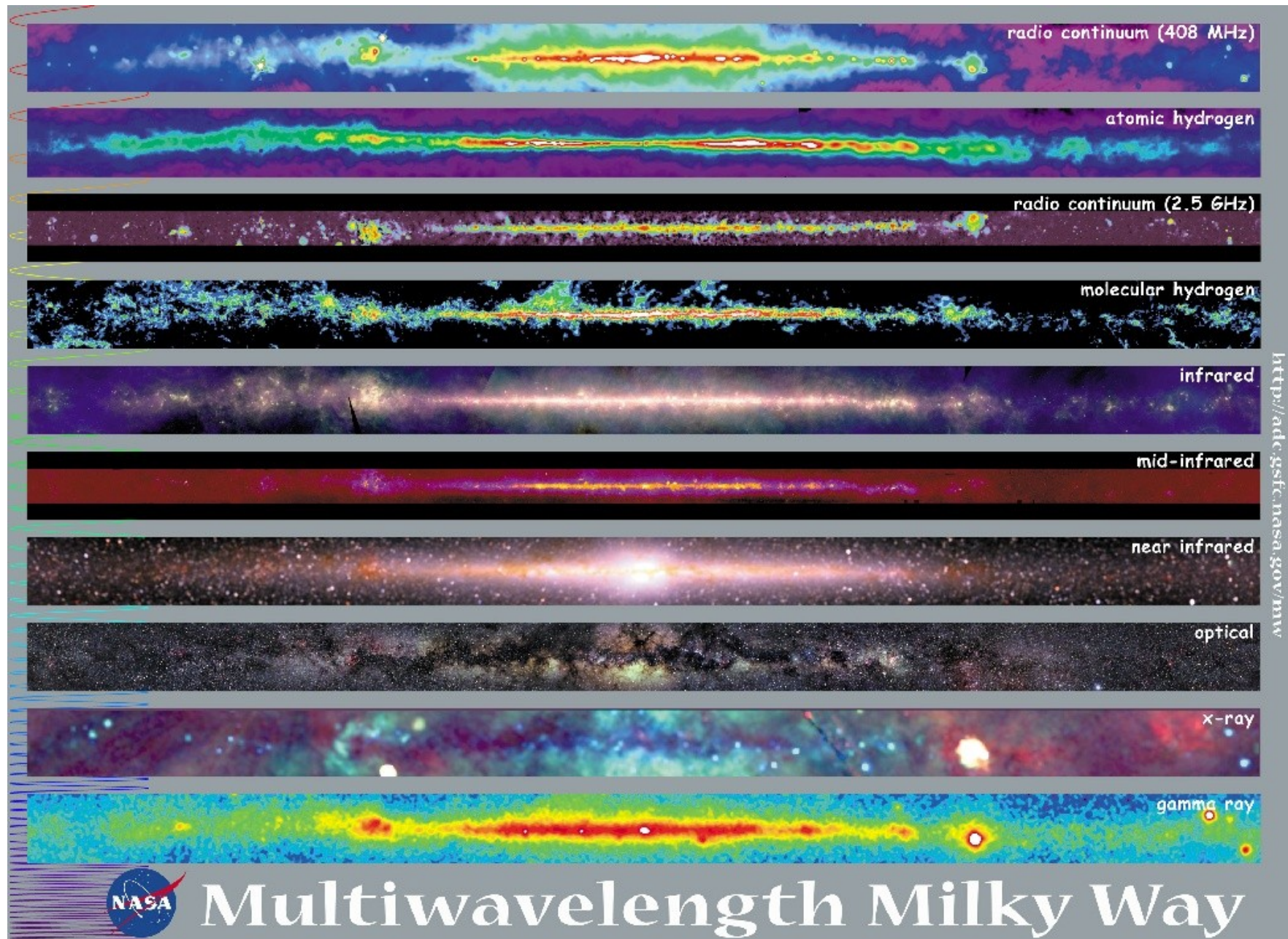
2MASS Showcase



The Infrared Milky Way This map of the infrared sky includes the light of a half billion stars

Two Micron All Sky Survey Image Mosaic: Infrared Processing and Analysis Center/Caltech & University of Massachusetts

Galaksija v različnih valovnih dolžinah



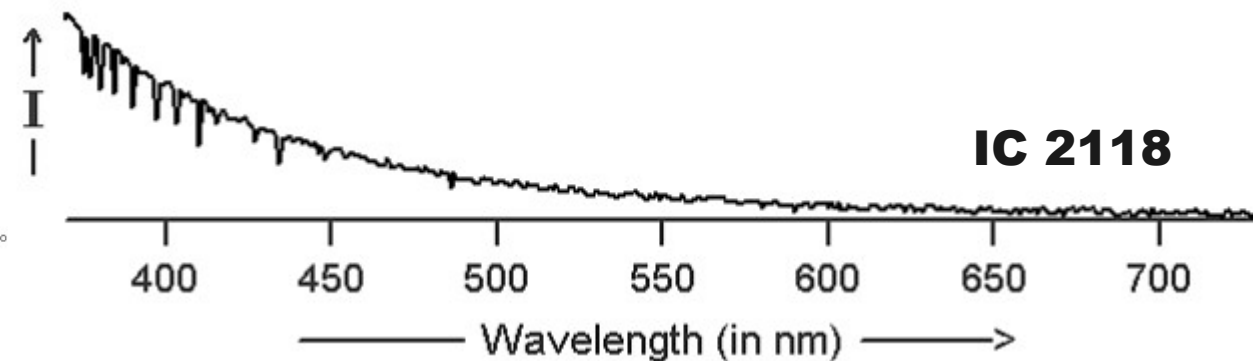
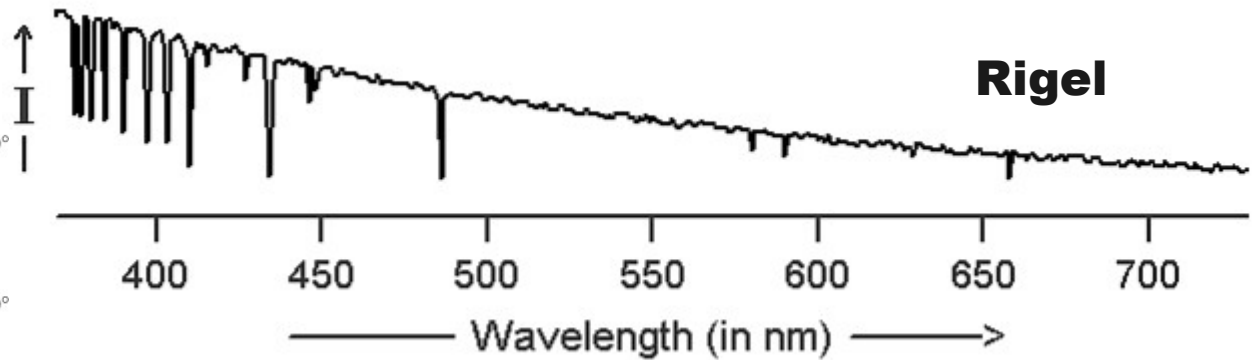
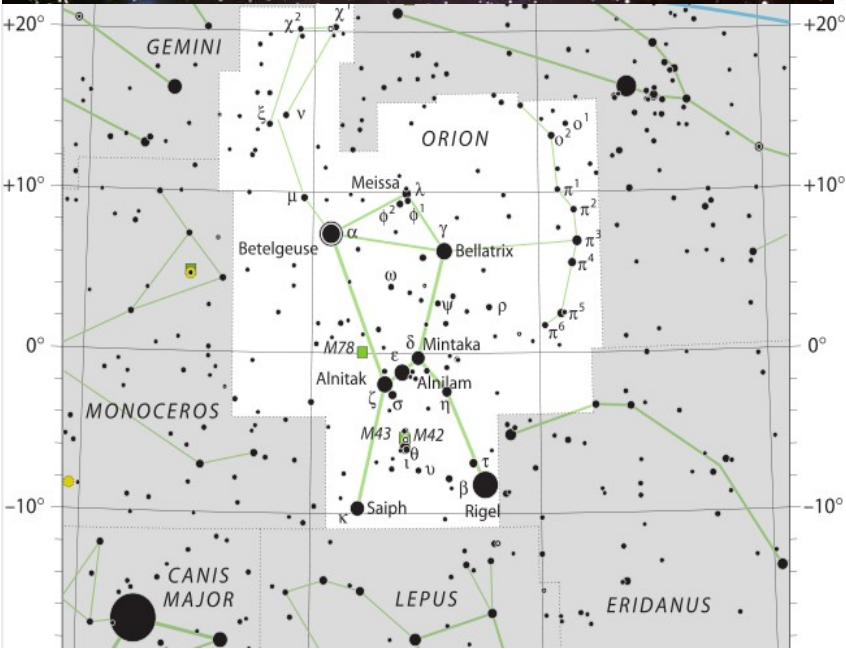
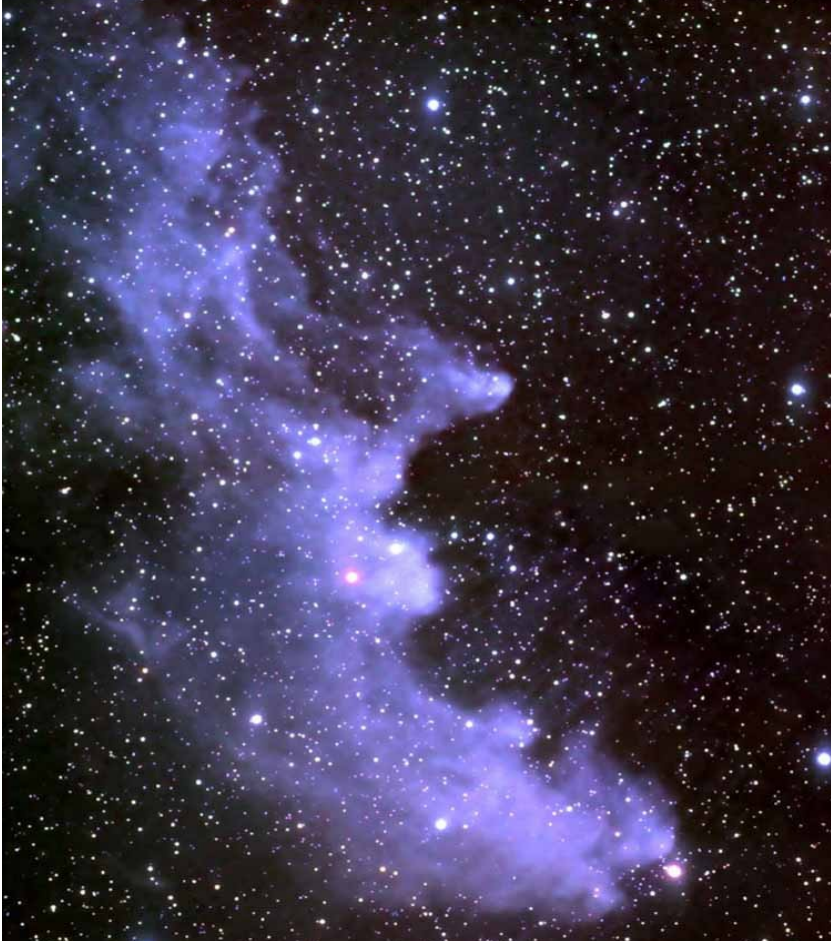
Refleksijske meglice

IC 2118

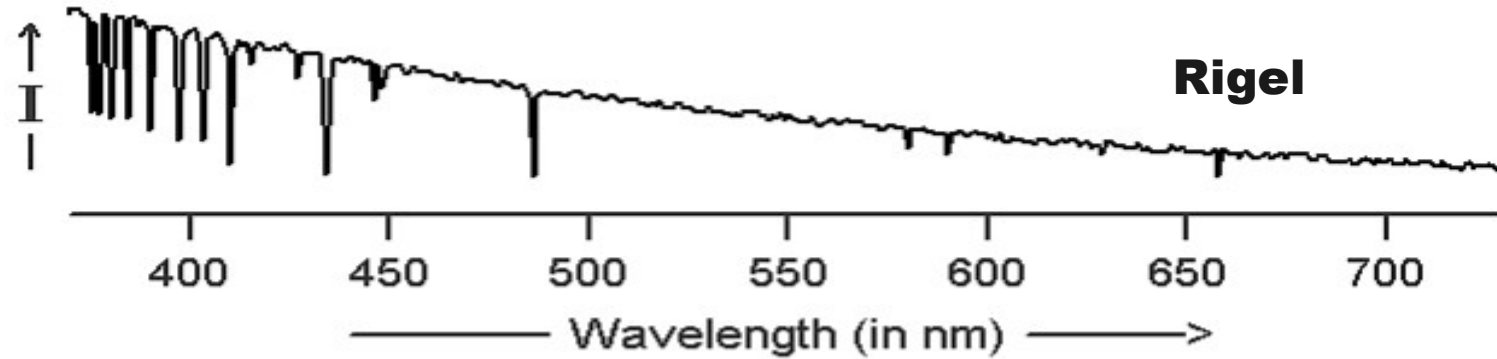


Refleksijske meglice

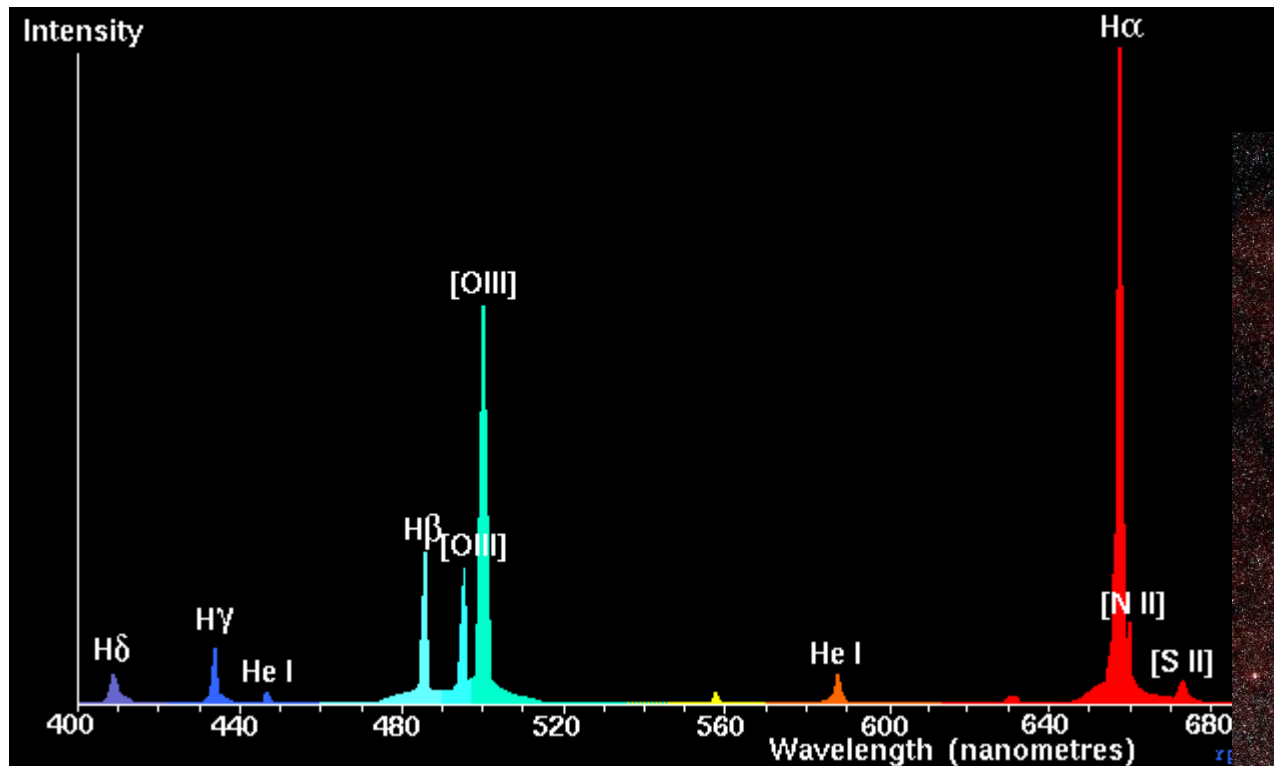
IC 2118 blizu zvezde Rigel v Orionu (ki bi bila nad desnim zgornjim robom slike) je iz drobnega prahu, ki odbija Riglovo svetlobo. Zvezdni spekter. Modra barva še poudarjena, ker se krajše valovne dolžine bolj siplejo od daljših (→ modro nebo).



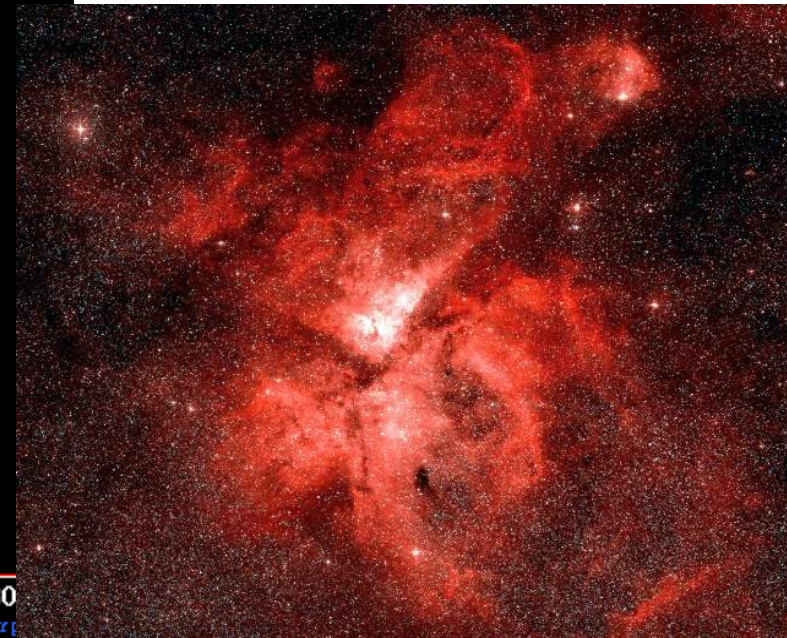
Emisijske meglice



Spekter vroče zvezde.



**Meglica Eta Gredlja
(ϵ Carinae) in njen spekter.**



Območja ioniziranega vodika (H II regions)



Približno v sredini slike ob zelo vročih zvezdah (tipa O in B) je območje ioniziranega vodika (Strömgenova krogla), okoli pa vidimo emisijo Balmerjevih črt vodika, zlasti rdeče črte $H\alpha$.

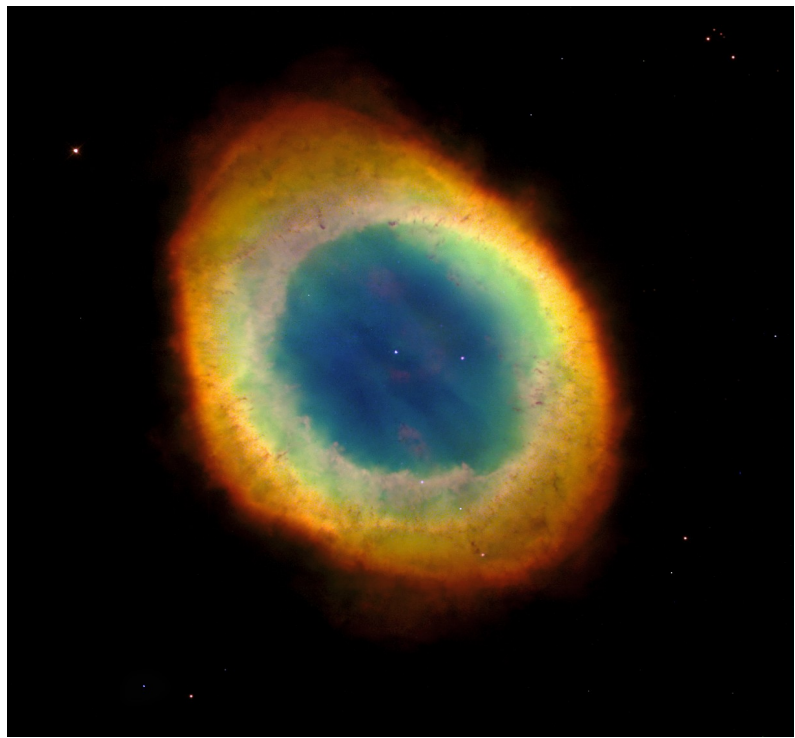
Meglica Rozeta = NGC 2237

Planetarne meglice



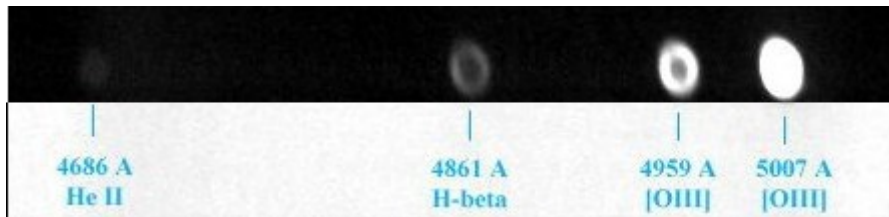
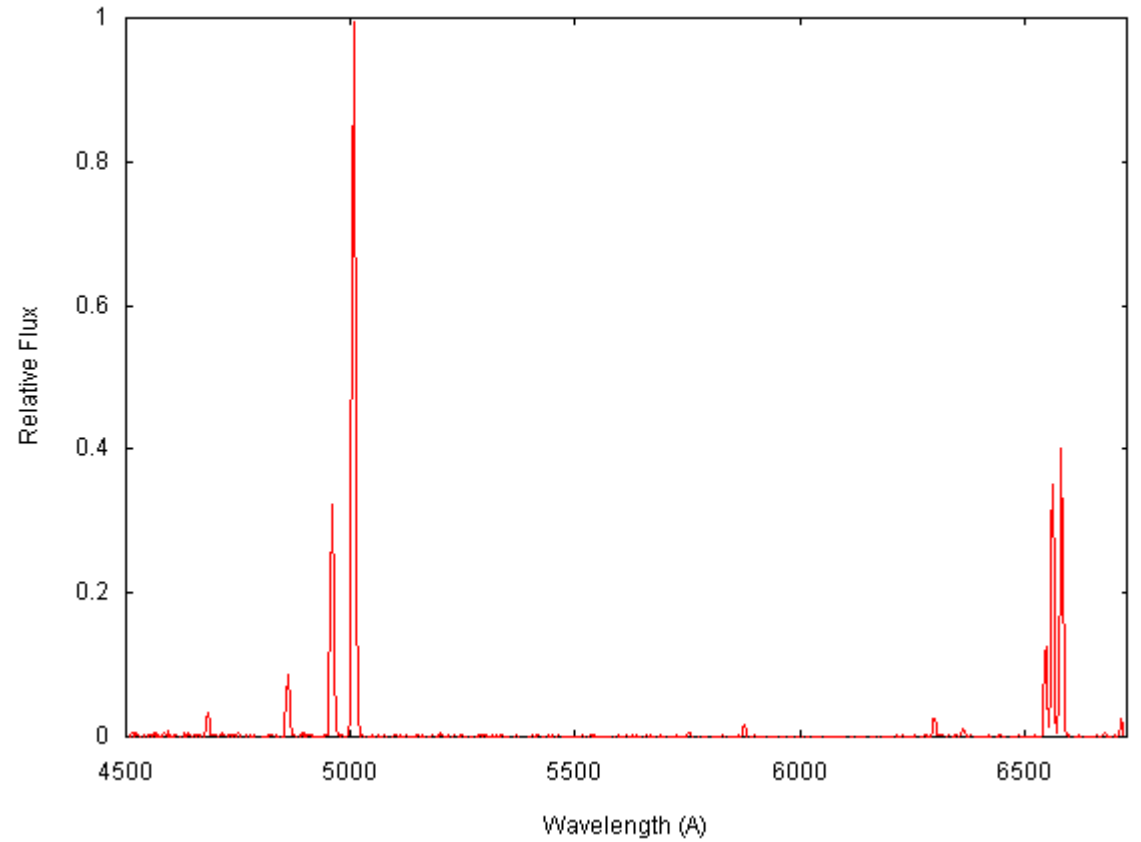
M 57
Meglica v Liri

Planetarne meglice



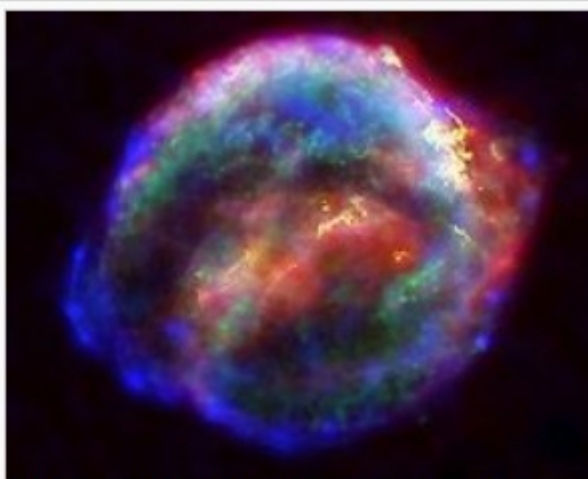
M 57, Meglica v Liri

M57 - 4.89 / 08 / 2002 - FS128 refractor - 18 x 120 s - 2.882 Å/pixel

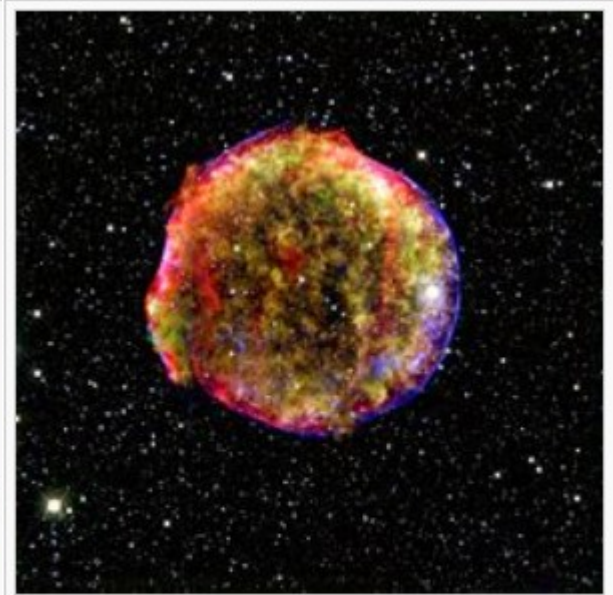




The remnant of **SN 1006** observed in X-rays. The inner emission comes from the hot plasma, whereas the two bright caps are produced by electrons accelerated at the shock front.



Multiwavelength composite image of the remnant of Kepler's supernova, **SN 1604**.



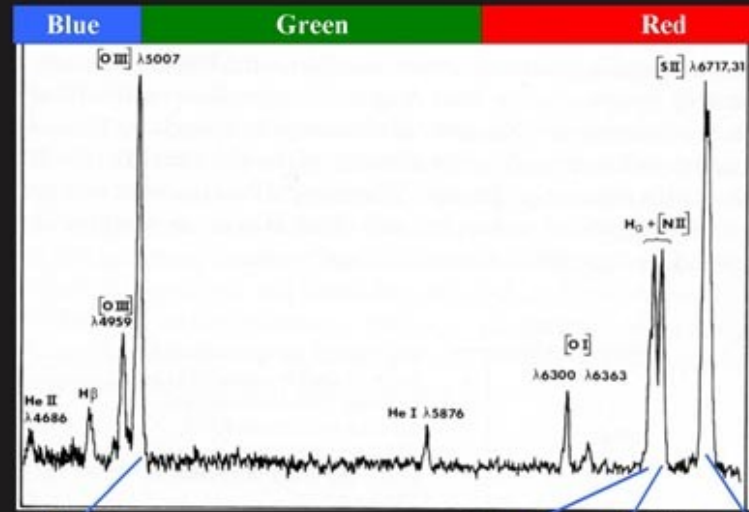
Multiwavelength composite image of the remnant of Tycho's supernova, **SN 1572**.

Ostanki supernov

**Meglica Rakovica
(supernova iz leta 1054)**



Spekter meglice Rakovica

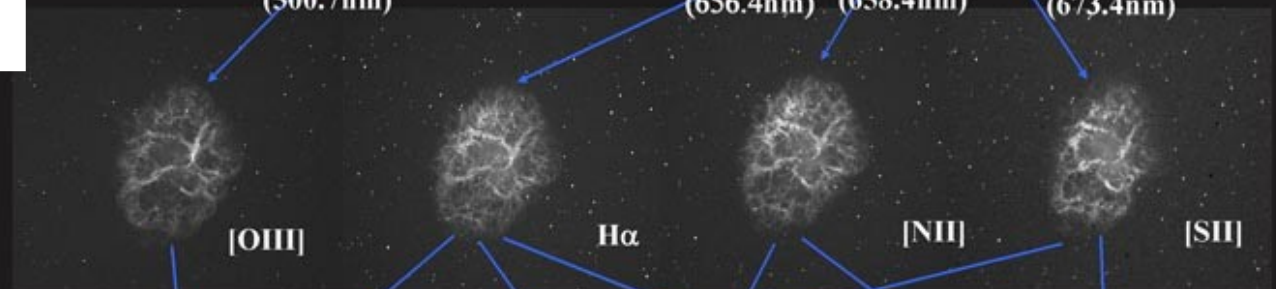


[OIII]
(500.7nm)

H α
(656.4nm)

[NII]
(658.4nm)

[SII]
(673.4nm)



RGB =
[SII], H α , [OIII]

RGB =
H α , [NII], [NII]

RGB =
[SII], [NII], H α