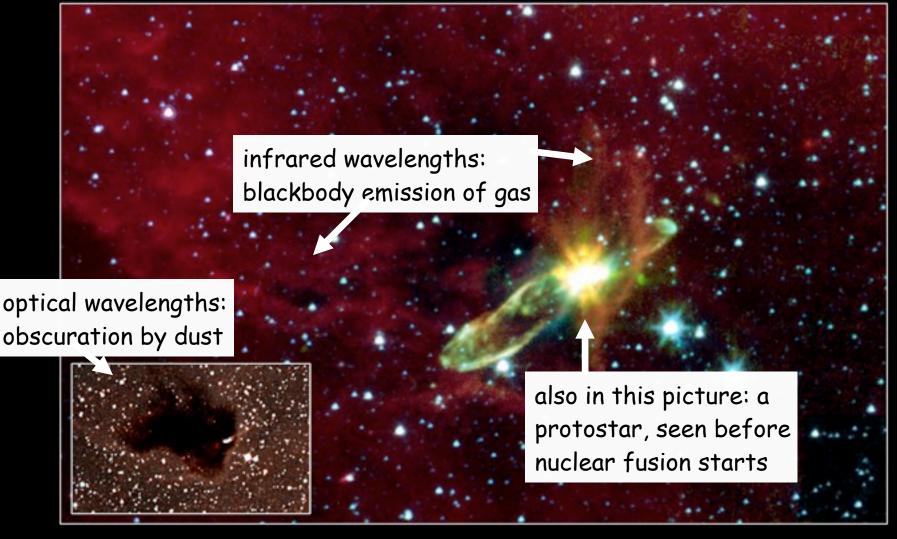
Astro 220: Galaxies and cosmology

Sep 29, 2010



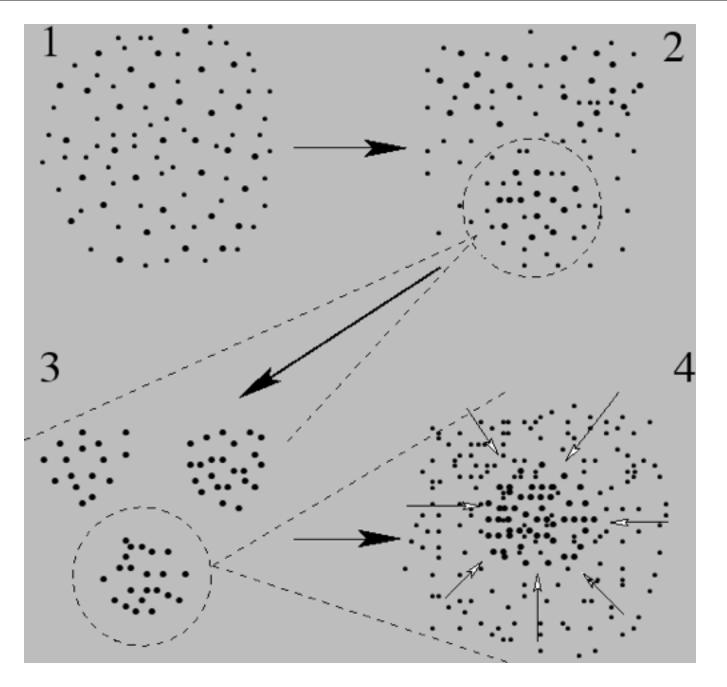
Embedded Outflow in HH 46/47

NASA / JPL-Caltech / A. Noriega-Crespo (SSC/Caltech)

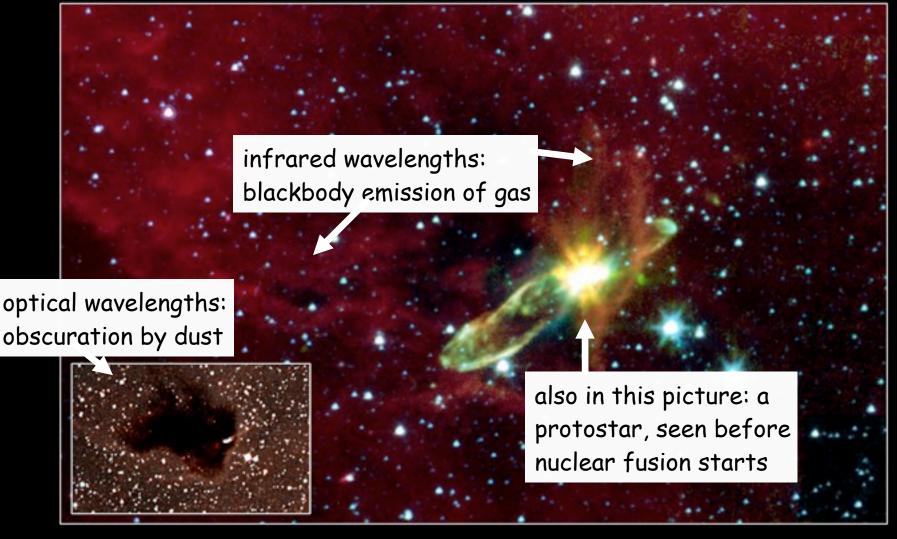
Spitzer Space Telescope • IRAC

Inset: visible light (DSS)

ssc2003-06f



Fragmentation of molecular cloud



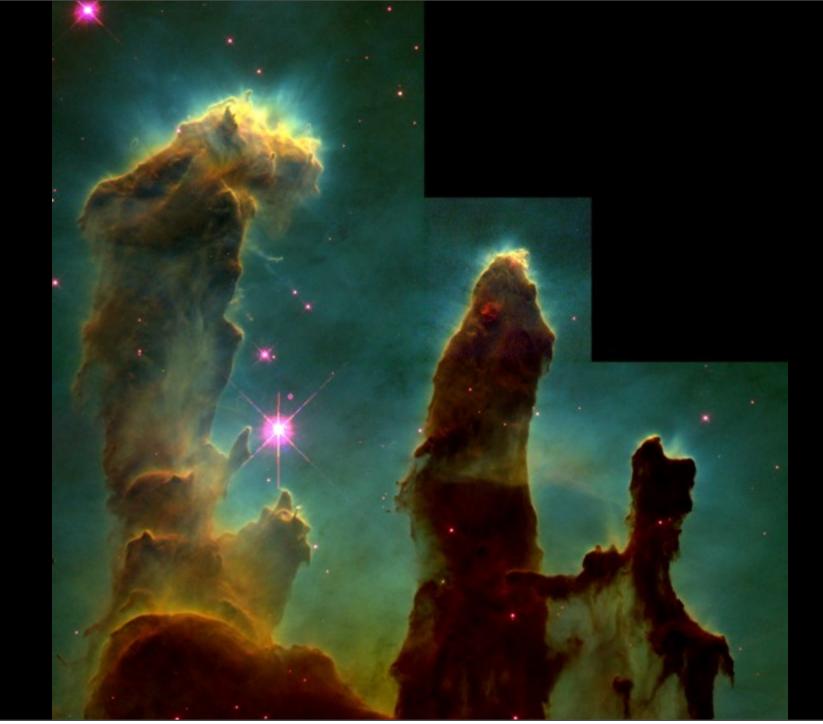
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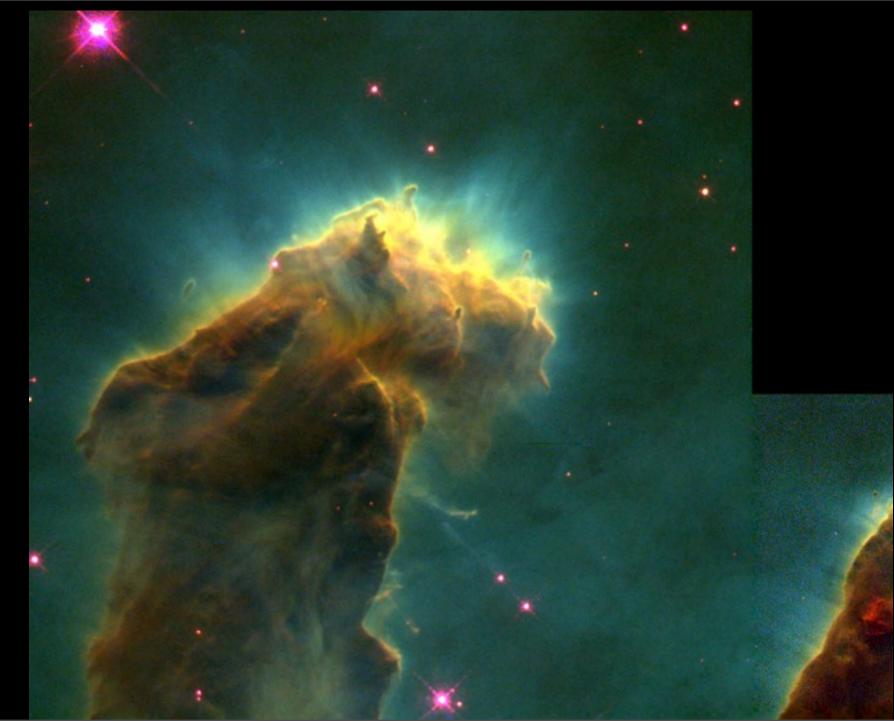
NASA / JPL-Caltech / A. Noriega-Crespo (SSC/Caltech)

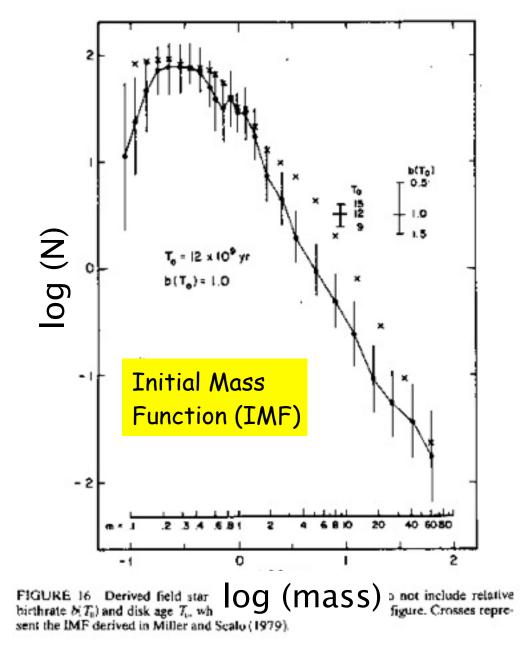
Spitzer Space Telescope • IRAC

Inset: visible light (DSS)

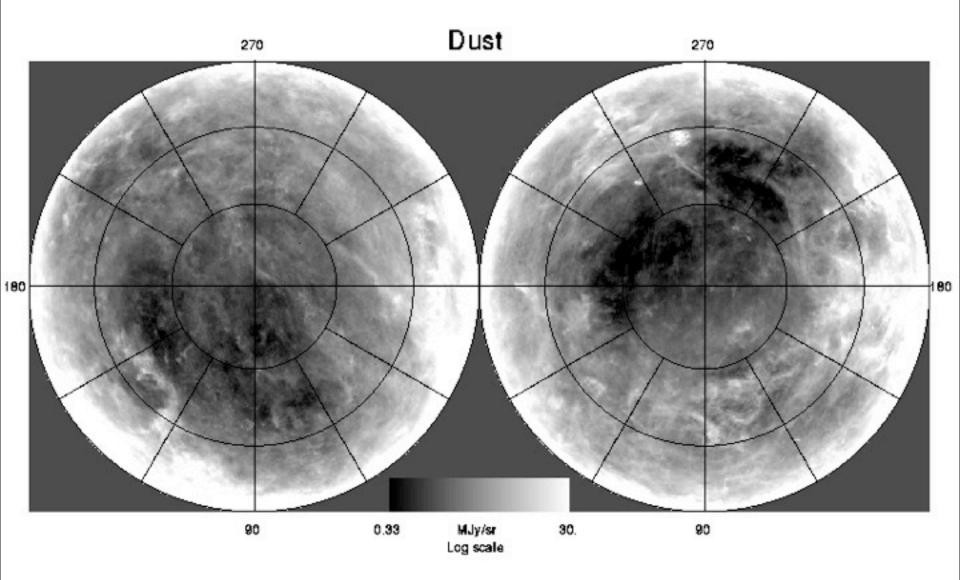
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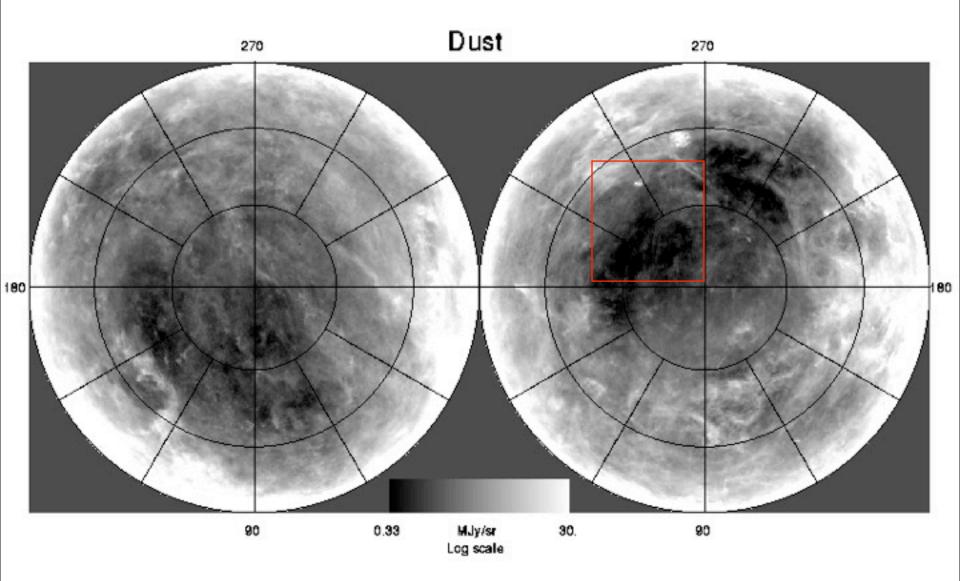


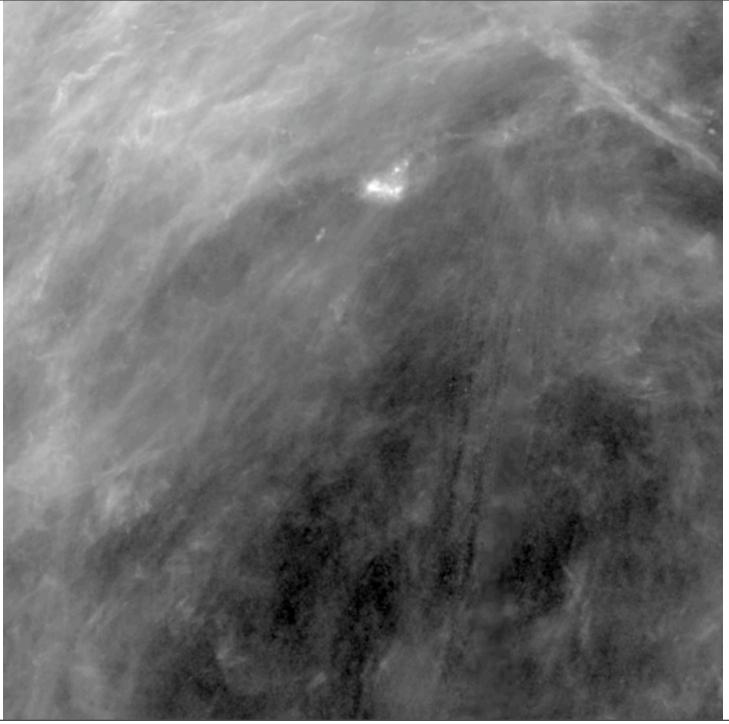


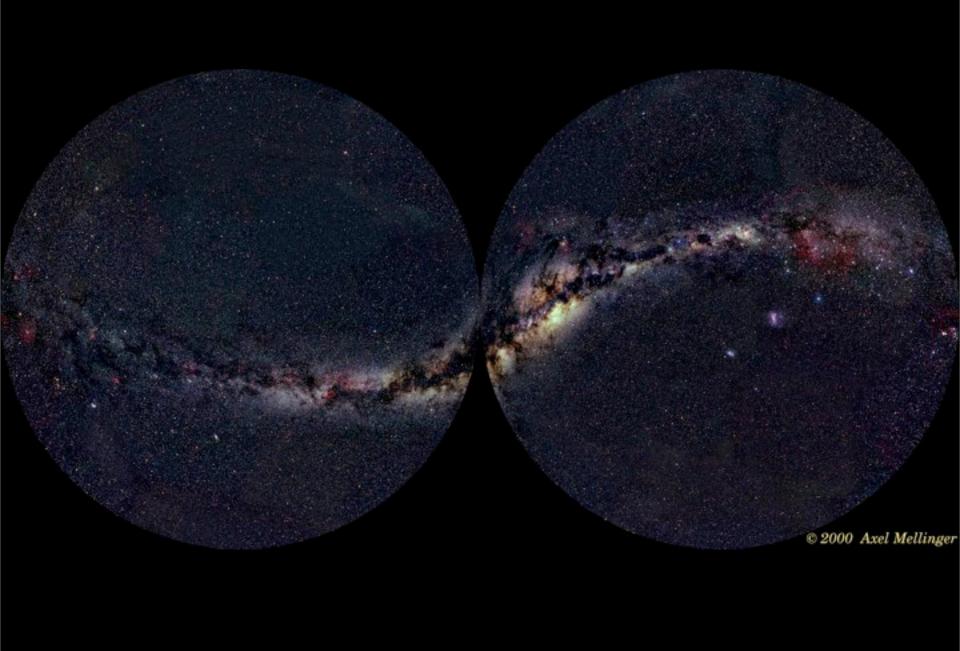


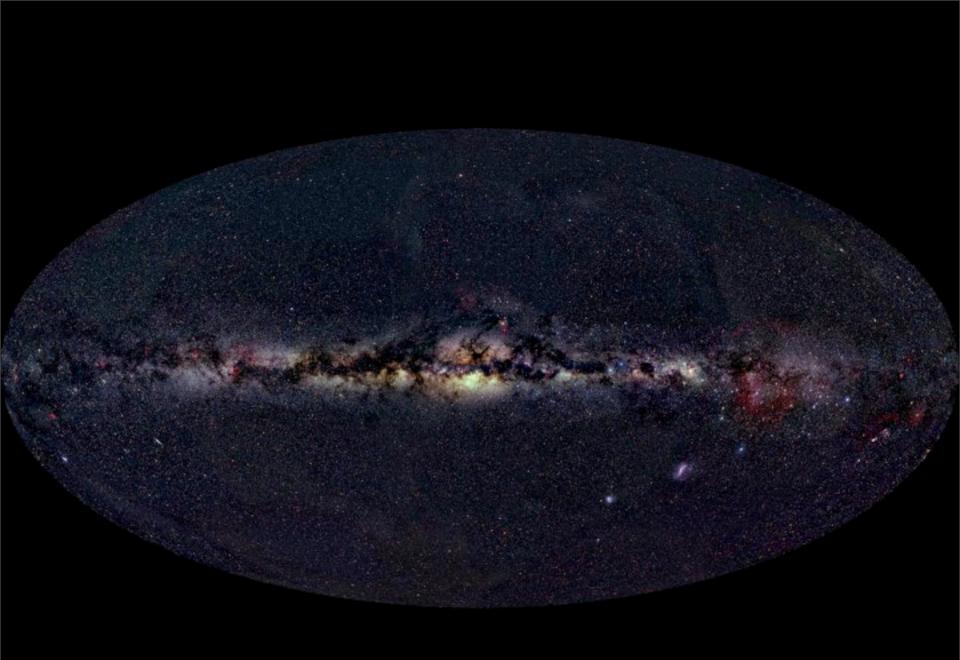
84





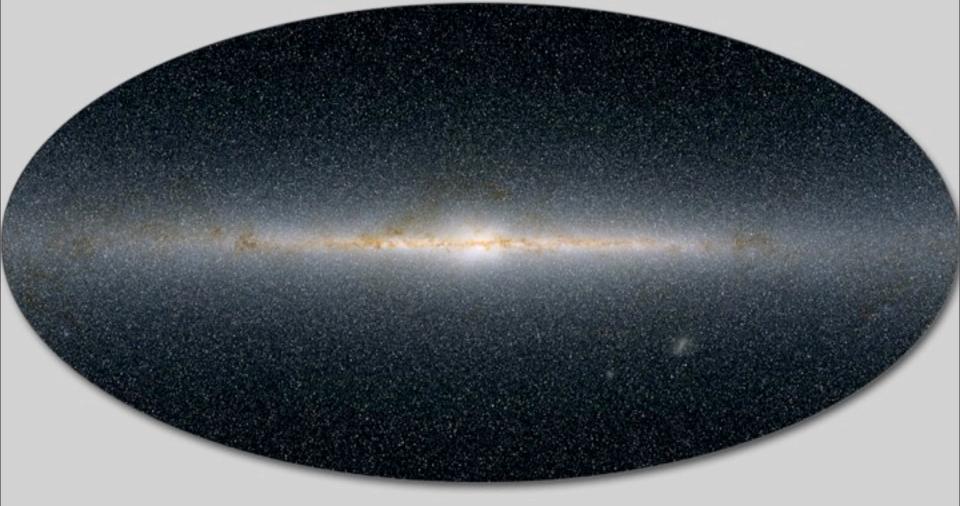




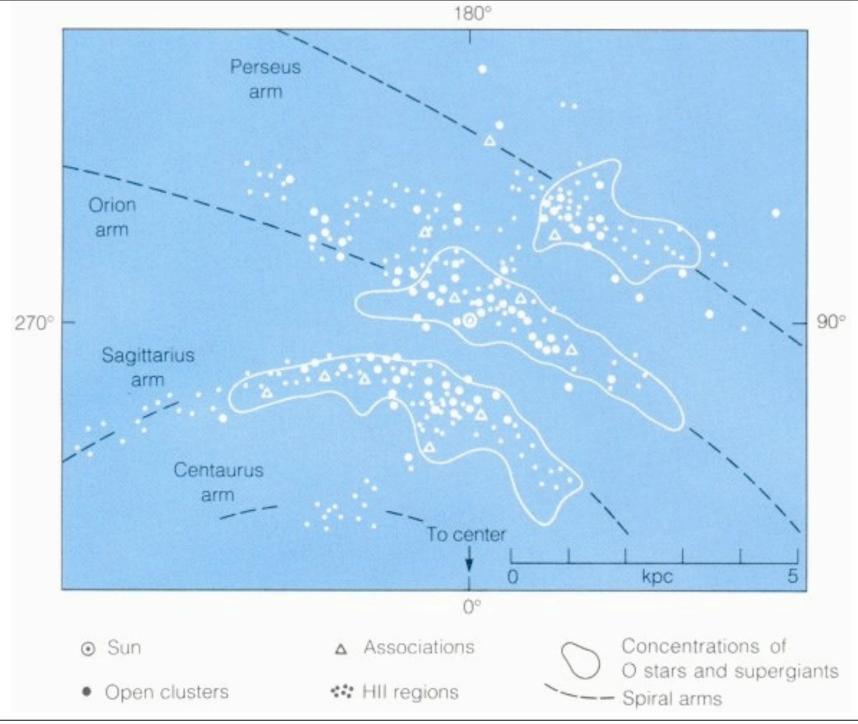


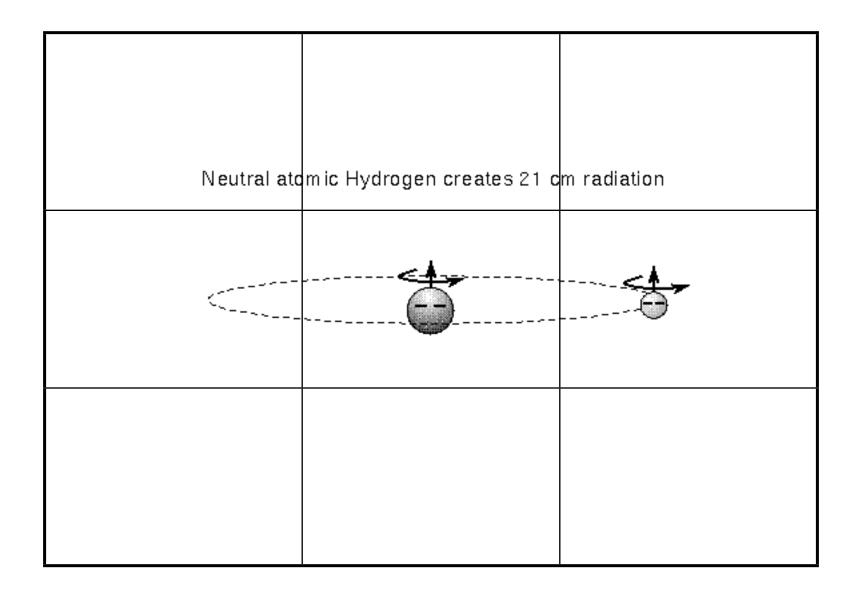
© 2000, Axel Mellinger



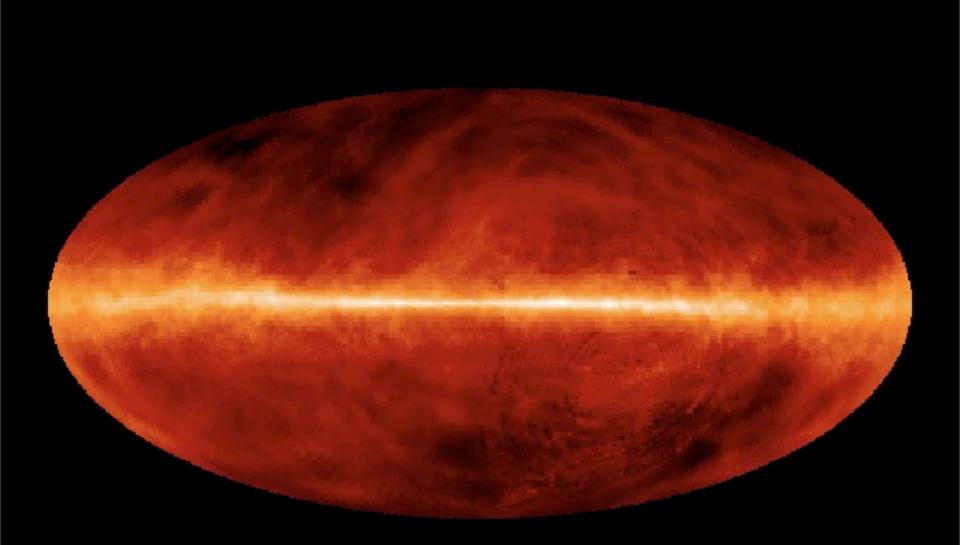


The Infrared Milky Way This map of the infrared sky includes the light of a half billion stars

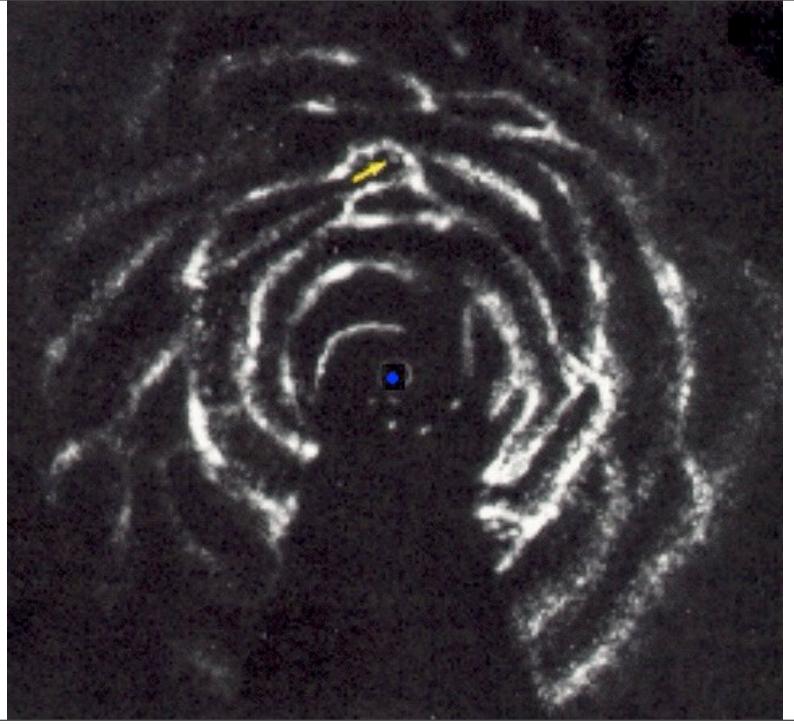


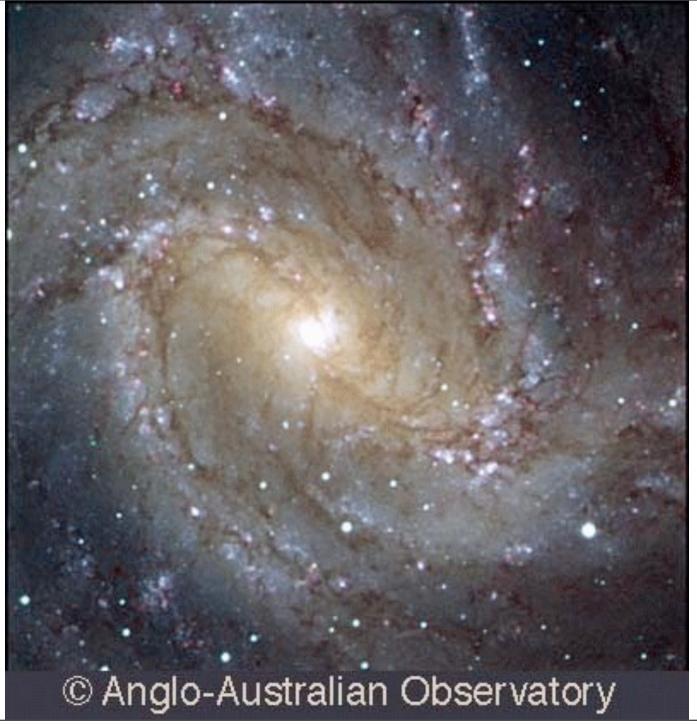


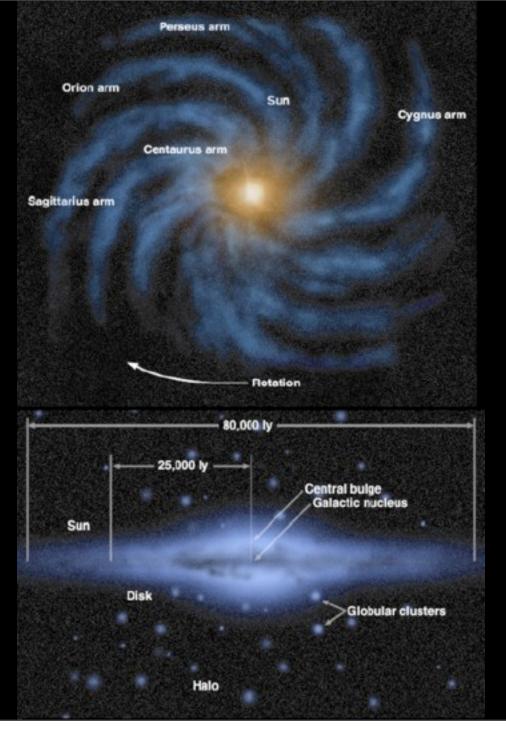


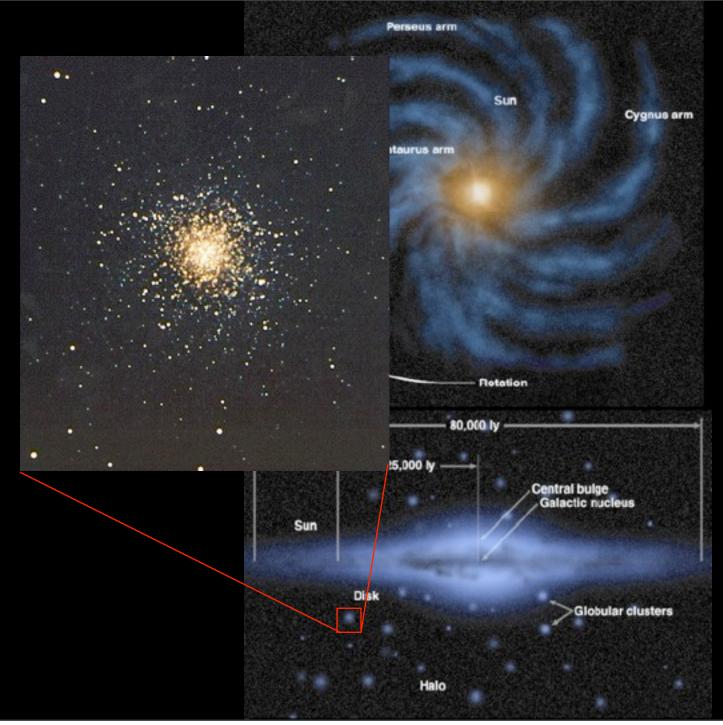


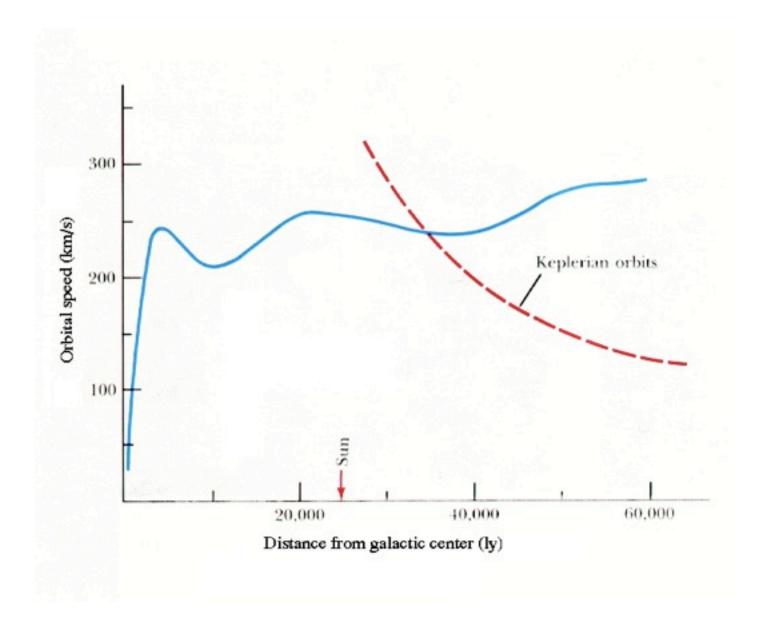
Neutral Hydrogen (21 cm radiation)

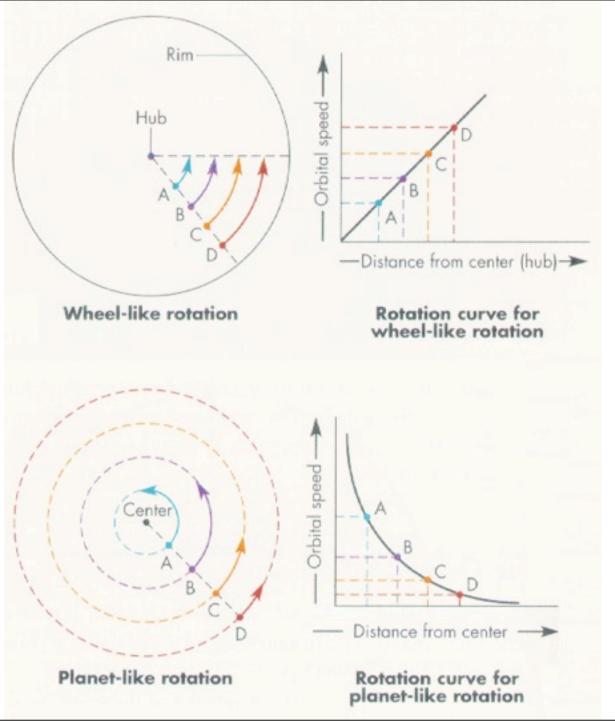




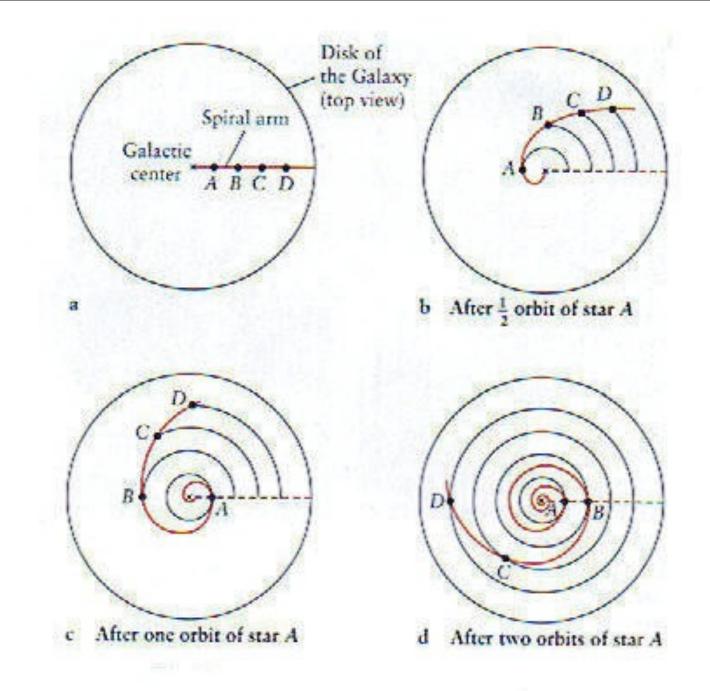


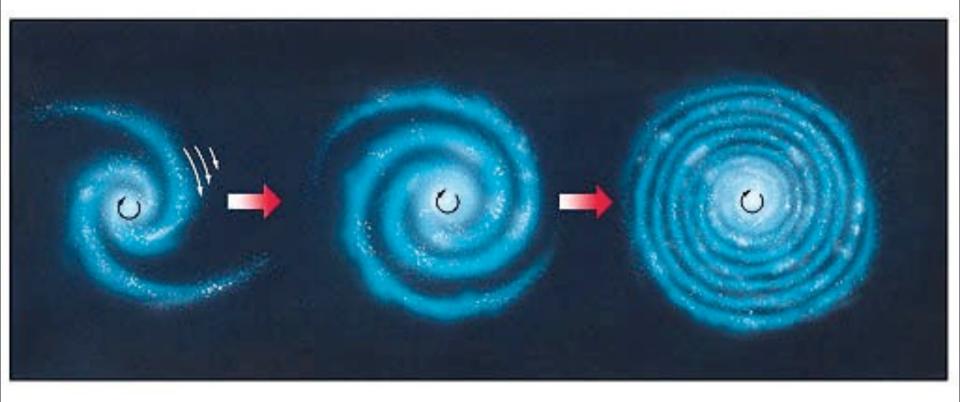


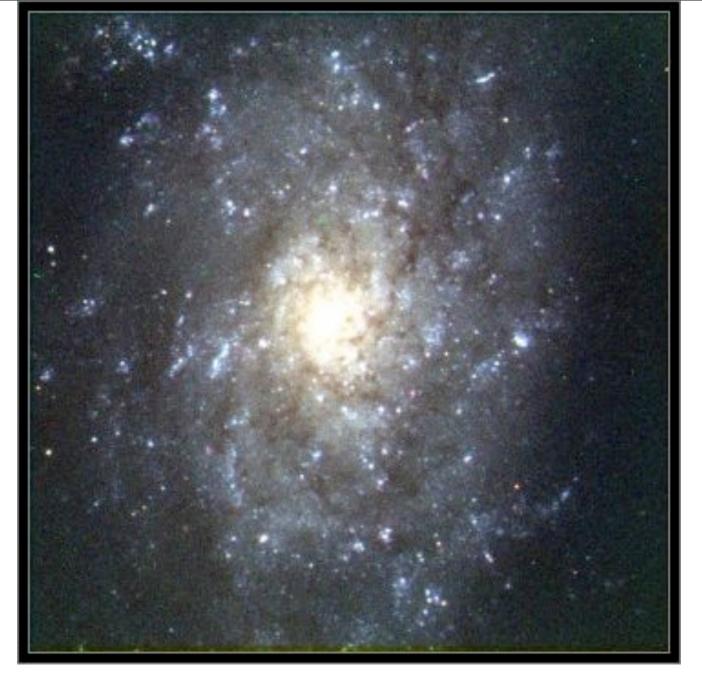




Monday, October 4, 2010

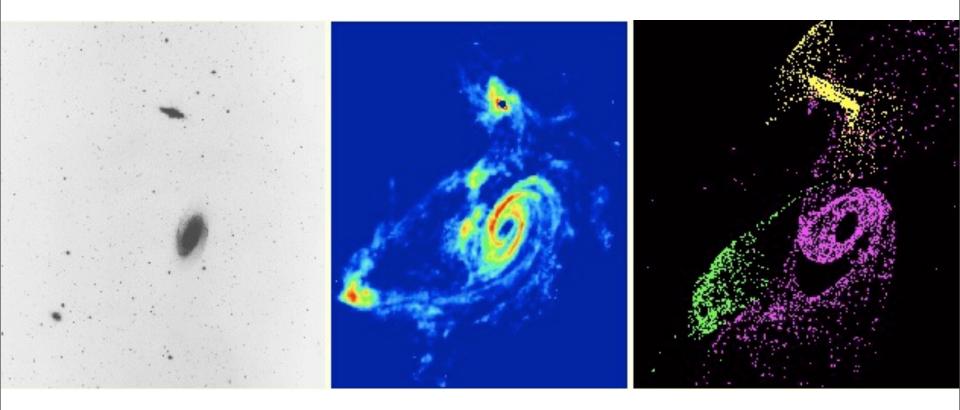






"Flocculent" spiral galaxy: no clear pattern

Example of tidally induced spiral arms



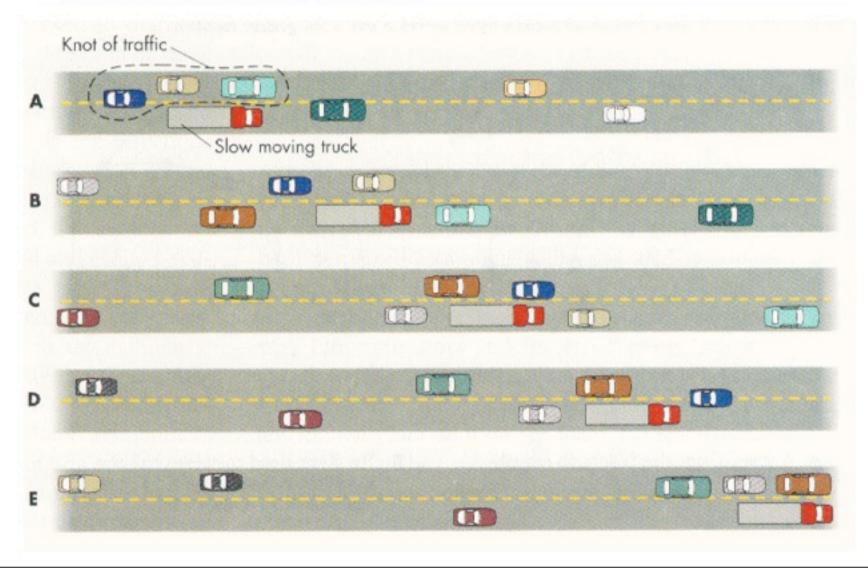
visual

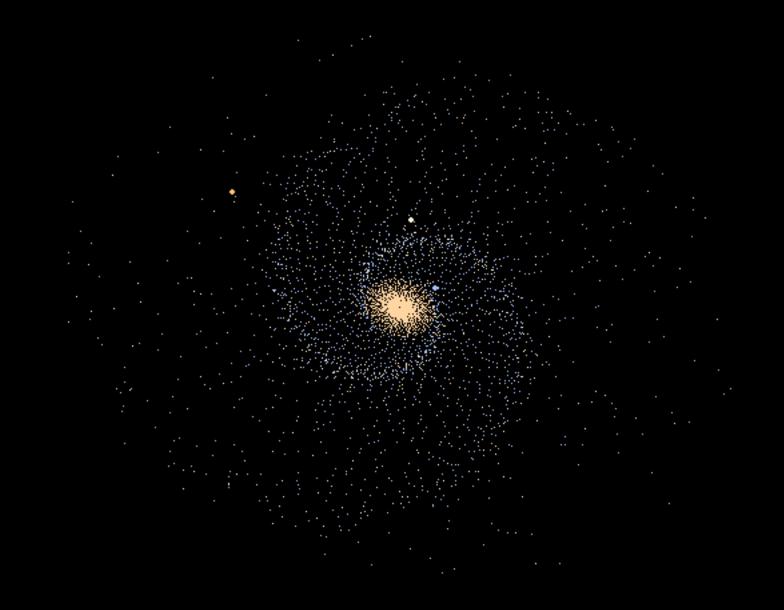
radio (21cm)

simulation

Density Wave

A slow moving truck causes a knot of traffic that moves along the highway at the speed of the truck. Individual cars approach the traffic know, slow down as they move carefully through the knot, and then resume speed as they leave the knot. As a result, the traffic knot consists of different cars at different times.





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