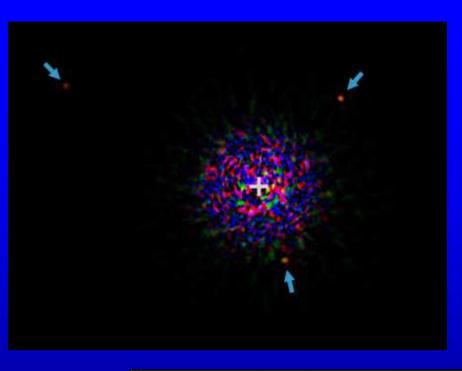
Astronomy News November 2008

Planets observed around two stars

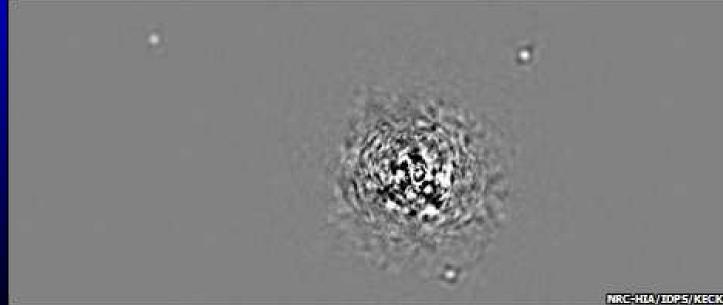
A triple planet system observed in the infrared and a single planet observed in the visible in orbit around the star Formalhaut.

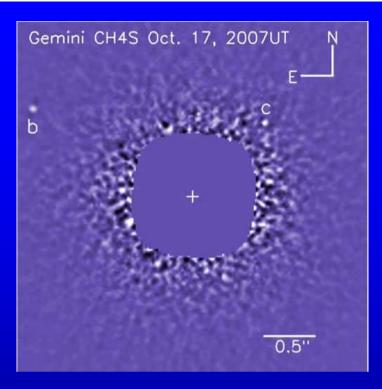
3 planets orbiting HR8799

- HR 8799 has a mass about 1.5 times that of our own Sun, and lies about 130 light years from the Sun. One of the 10-meter Keck telescopes in Hawaii has captured the three planets in infrared light orbiting the star.
- Each planet contains several times the mass of Jupiter, but even the innermost planet, labelled d, has an orbital radius near the equivalent of the Sun-Neptune distance.

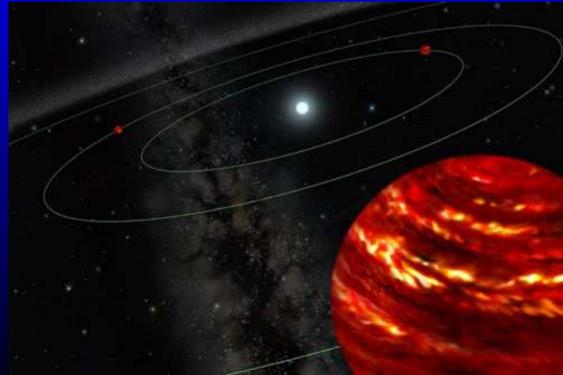


HR 8799 with three planets

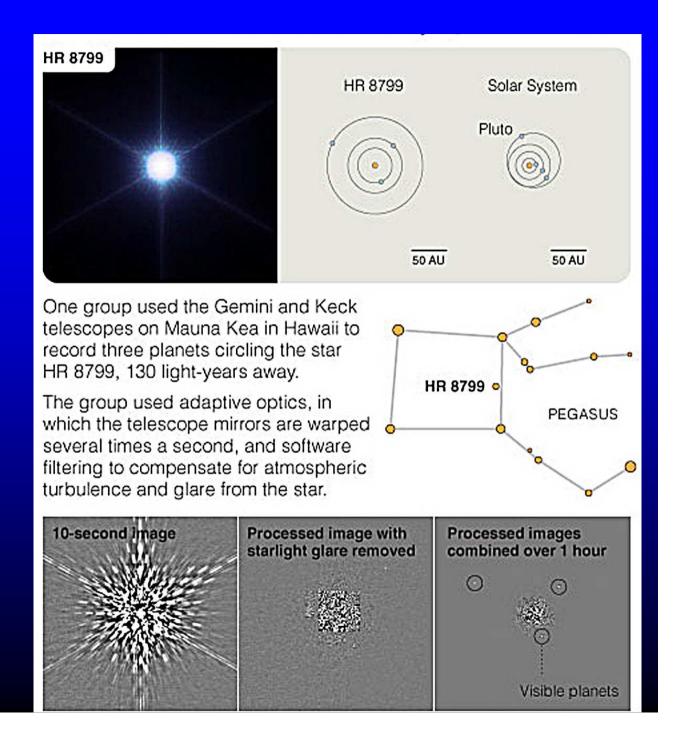




Artist's impression of the triple planet system Gemini North has observed the two outer of these planets



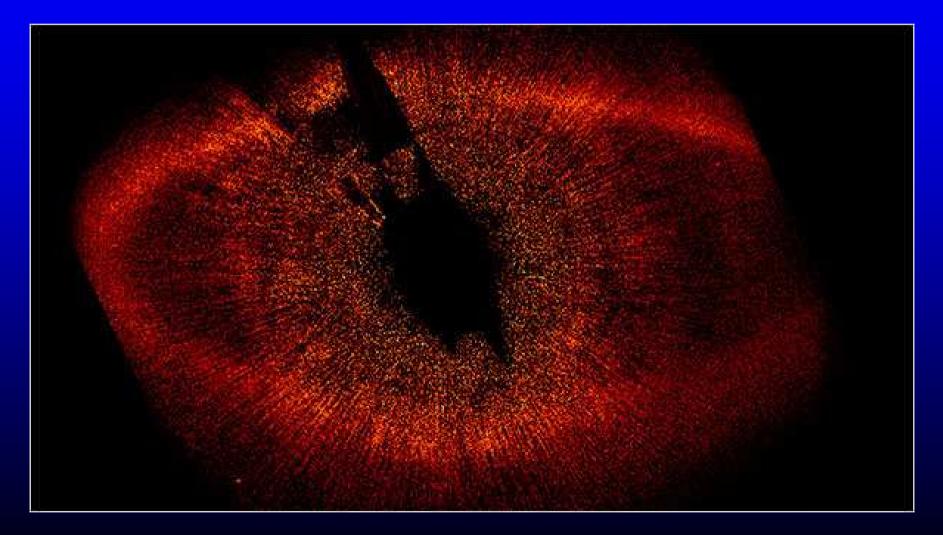
HR 8799

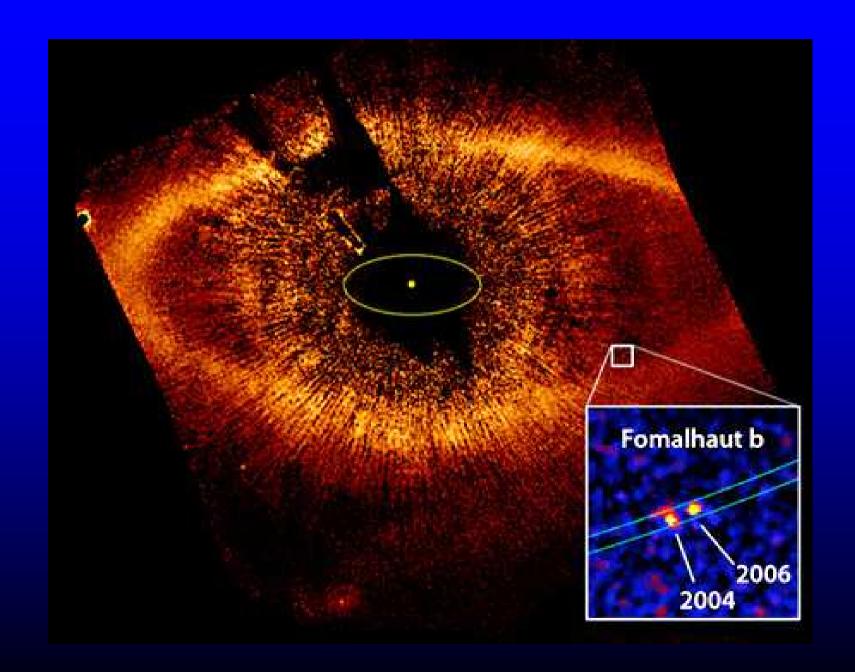


The Hubble Space Telescope has imaged the star Formalhaut -

and has observed a planet for the first time in visible light. The light from the star was obscured by a disk, so forming a coronagraph.

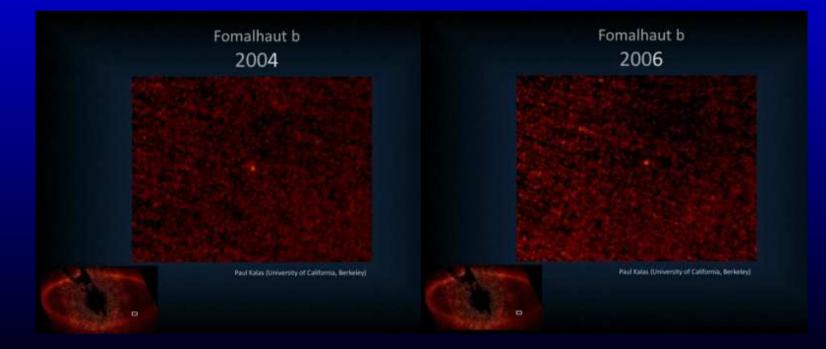
Hubble Visible Image of Formahaut

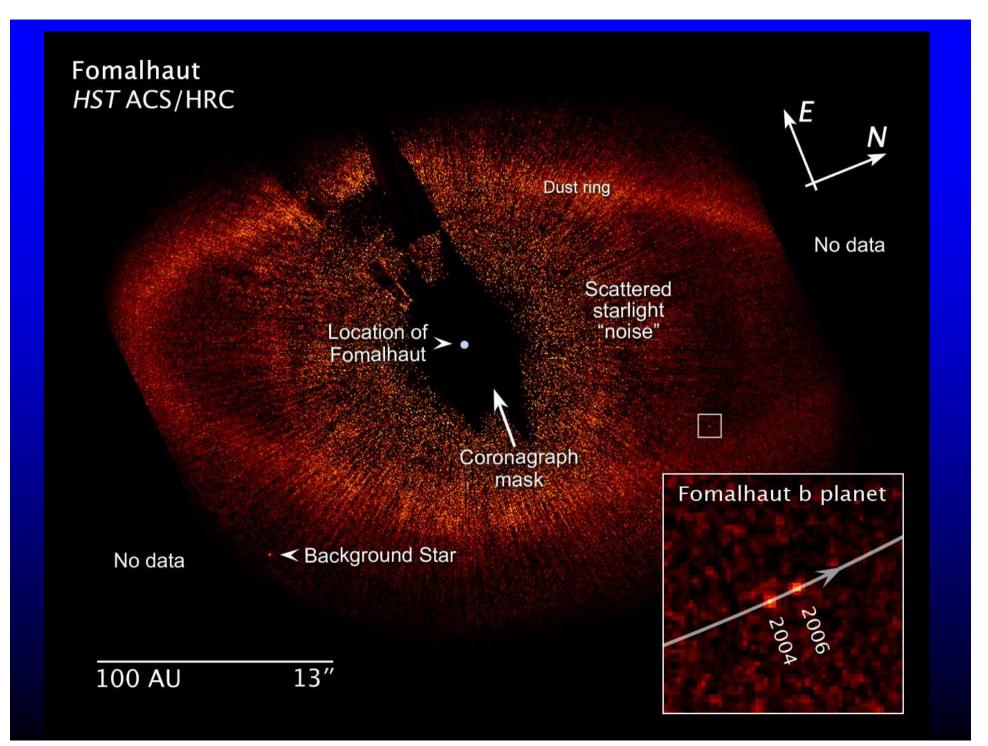




Formalhaut b

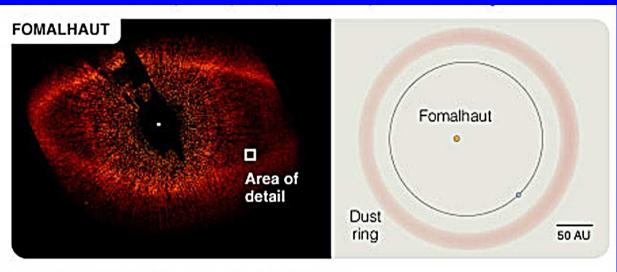
• A "dot" seen within the dust ring surrounding the star Formalhaut has moved in position over a period of two years.





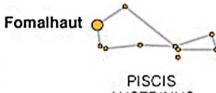
- A coronagraph mask was used to block out much of the light for the star which lies at a distance of 25 light years.
- The planet is ~ 3 Jupiter masses and orbits Formalhaut at a distance of 14 Sun-Jupiter distances ~ 10.7 billion miles or 72.8 AU.

Formalhaut b



Another group used the Hubble Space Telescope to spot a planet orbiting the bright star Fomalhaut, 25 light-years away.

Using a mask called a coronagraph to block the star's direct light (above, in black), the team was able to take detailed images of Fomalhaut's huge dust ring in 2004 and again in 2006. One bright spot inside the ring had moved slightly—a massive planet.



AUSTRINUS (Southern Fish)

