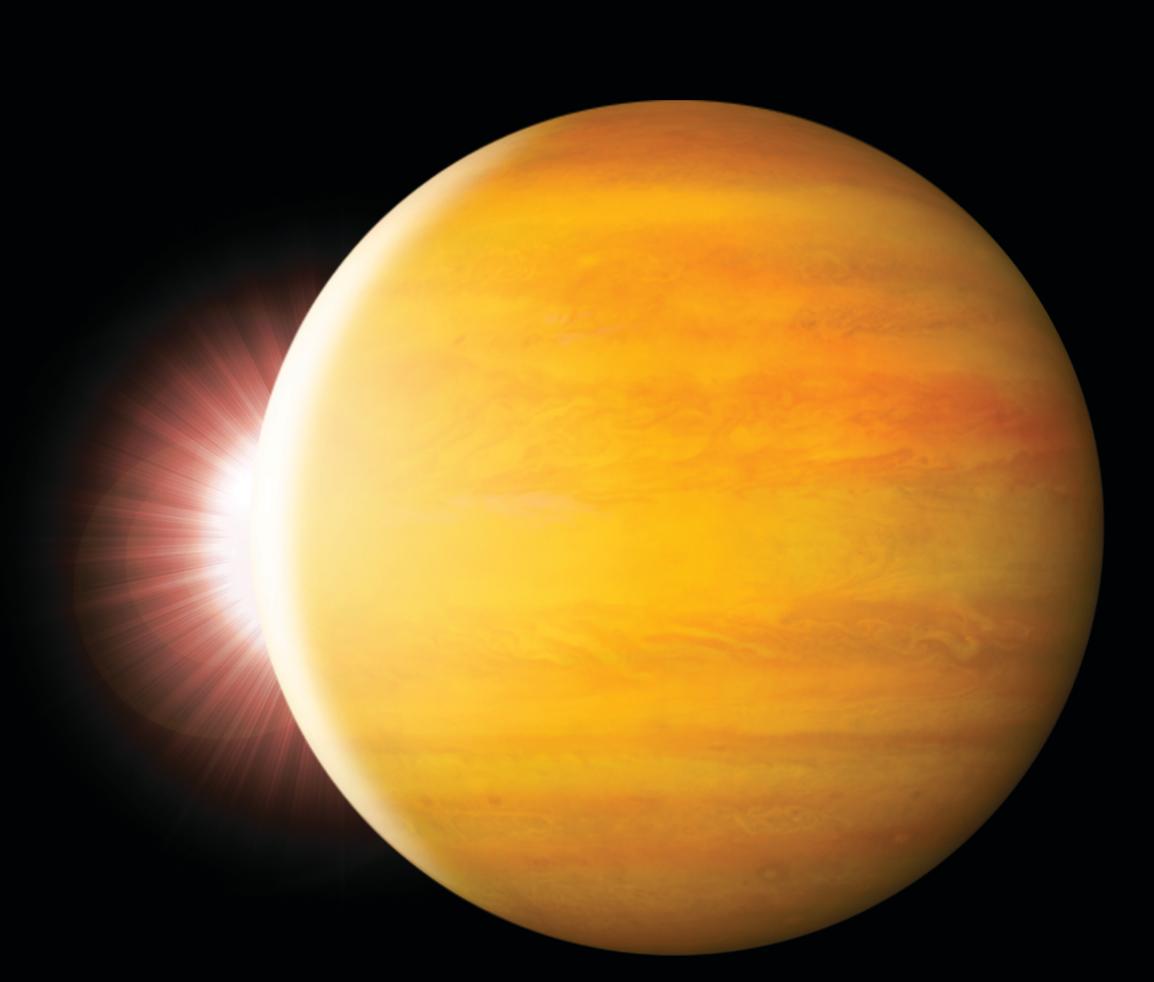
CELEBRATING 20 YEARS OF EXOPLANET DISCOVERIES

### THE FIRST PLANET DISCOVERED AROUND A SUN-LIKE STAR



### 51 Pegasi b

Discovered October 6, 1995

This year we celebrate the discovery of 51 Pegasi b in October, 1995. This giant planet is about half the size of Jupiter and orbits its star in about 4 days. '51 Peg' helped launch a whole new field of exploration.

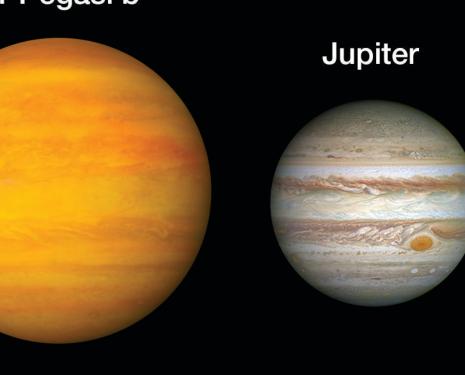




host star every 4 days.

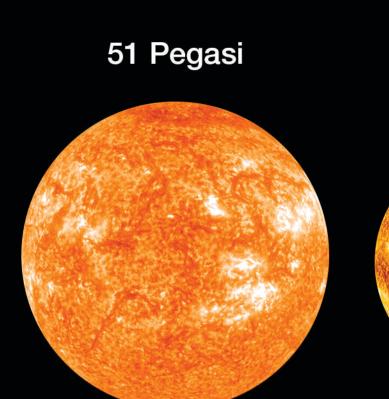


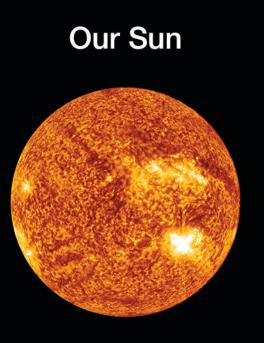
# PLANET COMPARISON -51 Pegasi b





#### **STAR COMPARISON**





51 Pegasi is 11% more massive and 23% larger than our sun.

#### Extreme Conditions



## Did you know?



The discovery of 51 Pegasi b created quite a stir, launching a whole new field in astronomical research.

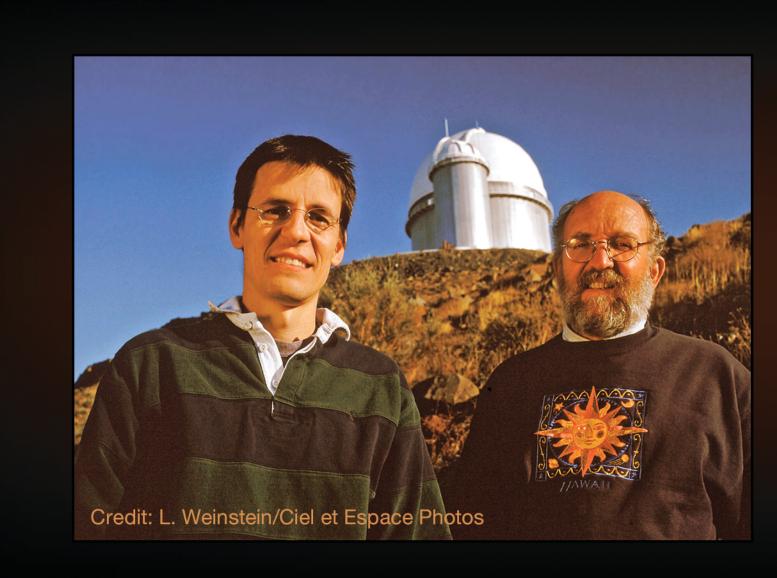


51 Pegasi b was the first planet to have its reflected visible light spectrum detected.

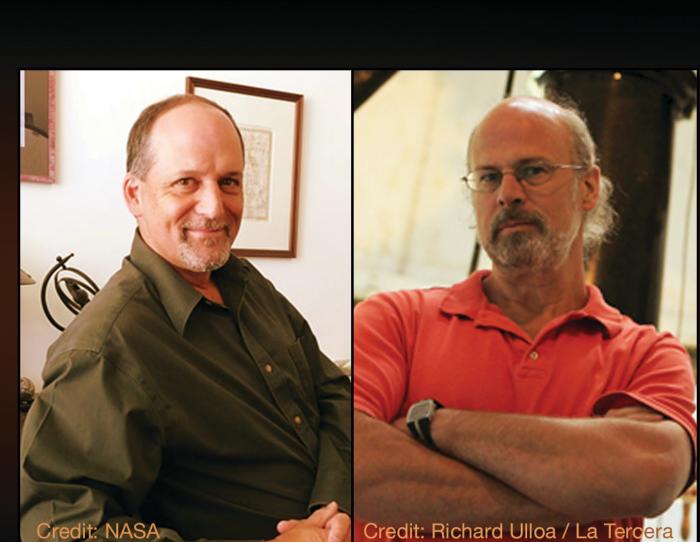


51 Pegasi b was the first planet confirmed around a sun-like star. A previous discovery in 1992 found planets orbiting a pulsar star but at that time many were skeptical planets could exist around these volatile stars.

## Observatories



Discovered by Michel Mayor and Didier Queloz using the ELODIE spectrograph at the Observatoire de Haute-Provence



Confirmed by Geoff Marcy and Paul Butler using the Hamilton Spectrograph at

the Lick Observatory

Additional observations have been made using the High Accuracy Radial velocity Planet Searcher (HARPS) instrument at La Silla Observatory (Chile)

**Jet Propulsion Laboratory** California Institute of Technology

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