



**Chandra X-ray  
Observatory Center**

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**WASP-18:** An exoplanet about ten times Jupiter's mass located some 330 light years from Earth.  
(Credit: X-ray: NASA/CXC/SAO/I.Pillitteri et al; Optical: DSS; Illustration: NASA/CXC/M.Weiss)

**Caption:** The artist's illustration featured in the main part of this graphic depicts a star and its planet, WASP-18b, a giant exoplanet that orbits very close to it. A new study using Chandra data has shown that WASP-18b is making the star that it orbits act much older than it actually is. The lower inset box reveals that no X-rays were detected during a long Chandra observation. This is surprising given the age of the star, suggesting the planet is weakening the star's magnetic field through tidal forces.

**Scale:** Inset image is about 5.3 arcmin across (about 0.5 light years)

*Chandra X-ray Observatory ACIS Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*