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## Extraordinary climates of Earth-like planets: three-dimensional ...

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Abstract. A **three-dimensional** general-circulation **climate** model is used to **simulate climates of Earth-like planets** with **extreme** axial tilts (i.e. '**obliquities**'). While no terrestrial-**planet** analogue exists in the solar system, **planets** with steeply inclined spin axes may be common around nearby stars.

## Extraordinary climates of Earth-like planets: Three ...

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A **three-dimensional** general-circulation **climate** model is used to **simulate climates of Earth-like planets** with **extreme** axial tilts (i.e. '**obliquities** '). While no ...

## Effects of Extreme Obliquity Variations on the Habitability of ...

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They found that **Earth-like planets** with high **obliquities** were no more likely to ... ( 2010) examined how large eccentricity oscillations affect the **climates** of rocky .... the gravitational constant, measured in units of AU<sup>3</sup> M<sup>-1</sup> day<sup>2</sup>; and ED is the ... For each of the 17 orbital runs, the Earth-mass **planet** in the **simulation** has a 1- day ...

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LExEn: **Extraordinary Climates of Earth-Like Planets: GCM Simulations** at High ... that **climate** at high **obliquity** would be made regionally **severe** by large-scale ... use a **three-dimensional** general circulation model (GCM) to **simulate extreme** ...

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planet? Astron. Astrophys., 522, A23. Walker C. C. and Schneider T. (2005) Response of idealized Hadley circulations to seasonally varying heating. Geophys. Res. Lett., 32 ... Williams D. M. and Pollard D. (2003) **Extraordinary climates of Earth-like planets: Three-dimensional**

climate simulations at extreme obliquity.

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**Extraordinary climates of earth-like planets: Three-dimensional climate simulations at extreme obliquity.** International Journal of Astrobiology 2: 1–19. Williams ...

## <sup>[PDF]</sup> Climate of Earthlike planets with high obliquity and ... - CentAUR

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Jump to [Appendix: Determining Initial \*\*Planet\*\* Locations](#) - 4713 BC) corrected for **Earth's** changing position ... The location of a **planet** in its orbit around a central star ... <sup>1</sup> <http://kepler.nasa.gov> as of May 10, 2016. <sup>2</sup> We used **three** components of CCSM4 in this work: ... version 4 of the Community **Climate** System Model.



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