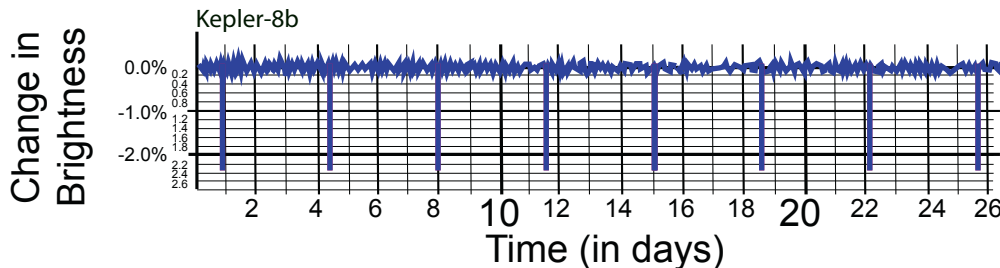


Chasing Shadows: NASA's Kepler Mission Teaching and Learning Resources:



1. **Transit Tracks:** Use light curves from Kepler Mission to determine period and size of planets. Employs Kepler's 3rd Law of Planetary Motion.
-PDF of teaching guide
-PowerPoint slides to support teaching Transit Tracks
<http://kepler.nasa.gov/education/activities/transitTracks/>
2. **Kepler Discoveries:** Table of data—links to individual simulations for each transiting planet.
<http://kepler.nasa.gov/Mission/discoveries/>
3. **Kepler Exoplanet Transit Hunt:** an online simulation
<http://kepler.nasa.gov/multimedia/Interactives/keplerFlashAdvDiscovery/>
4. **Planet Families:** Build planetary systems online, and watch them evolve (not quantitative)
<http://www.alienearths.org/online/starandplanetformation/planetfamilies.php>
5. **Kepler's Laws:** Online interactive animations
<http://astro.unl.edu/naap/pos/animations/kepler.swf>
6. **Habitable Zones:** Online interactive animations
<http://astro.unl.edu/naap/habitablezones/animations/stellarHabitableZone.html>
7. **Doppler Shift Demonstration** (Radial Velocity Exoplanet Searches):
<http://astro.unl.edu/classaction/animations/light/radialvelocitydemo.html>
http://astro.unl.edu/classaction/animations/extrasolarplanets/ca_extrasolarplanets_graph.html
8. **All of University of Nebraska Lincoln's Astronomy/Astrophysics Simulations:** Index
<http://astro.unl.edu/animationsLinks.html>
9. **PhET Simulations:** University of Colorado, Boulder
<http://phet.colorado.edu/en/simulations/category/new>

Download this document at: <http://kepler.nasa.gov/education/resources/>

Kepler Data: Access to Released Data for Research Projects

1. **Kepler Planet Candidates:** Feb. 2011 announcement of 1235 candidates
<http://kepler.nasa.gov/Mission/discoveries/candidates/>
2. **MAST:** (Multimission Archive at STScI) Archive of Released Kepler Data:
http://archive.stsci.edu/kepler/planet_candidates.html
3. **NStED:** NASA/IPAC/NexSci Star and Exoplanet Database:
<http://nsted.ipac.caltech.edu/>
4. **Kepler Input Catalog: Index**
<http://www.cfa.harvard.edu/kepler/kic/kicindex.html>

NASA, Kepler Mission, and Astrophysics Websites:

1. **NASA's Portal** to Kepler News: <http://www.nasa.gov/kepler>
Official NASA Public Affairs website for mission information
2. **Kepler Mission** Website: <http://kepler.nasa.gov>
Managed by the Kepler Education/Outreach team.
3. **Asteroseismology** with Kepler Mission Data: <http://astro.phys.au.dk/KASC/>
Stellar astrophysics with Kepler Data
4. **Astrophysics** with Kepler: <http://keplergo.arc.nasa.gov/>
The NASA Guest Observer Program for Kepler

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Upcoming:

First Kepler Science Conference, December 5-9, 2011:

- Conference description: <http://kepler.nasa.gov/Science/ForScientists/keplerconference/>
- Attendance Survey: <https://www.surveymonkey.com/s/TKSPKMG>

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