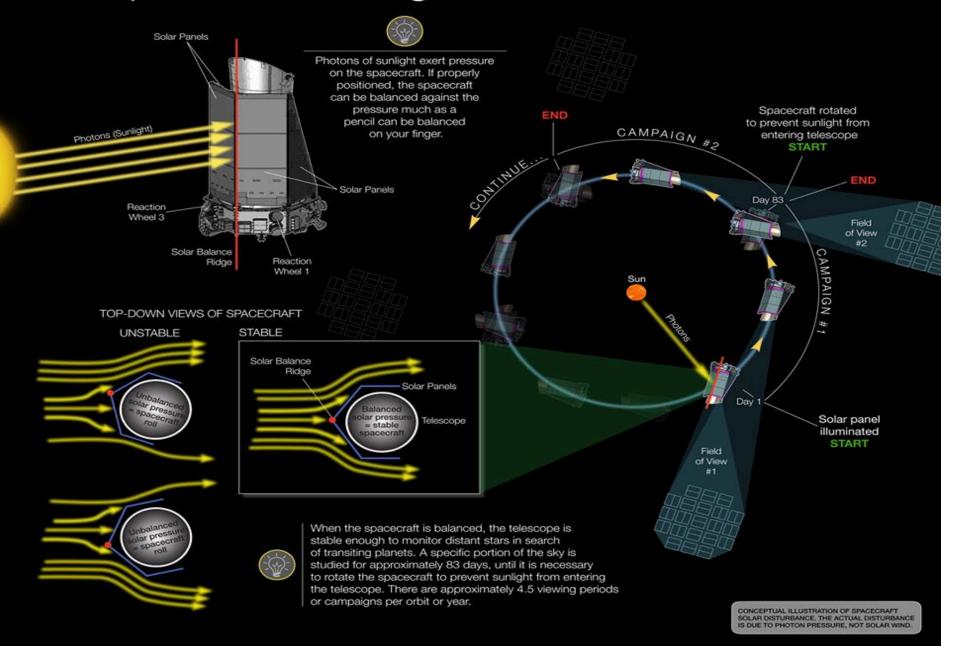
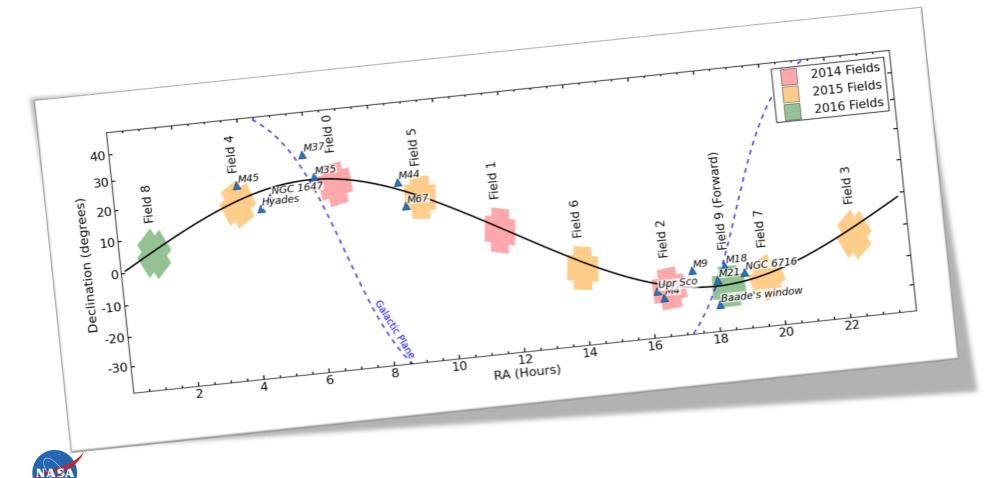
NASA

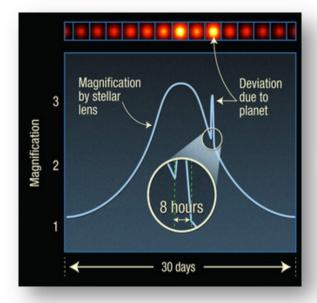
Kepler's Second Light: How K2 Will Work



Baseline observing windows of ~80 days lend themselves to an ecliptic plane survey

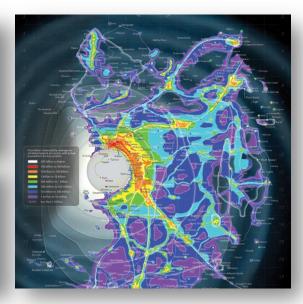


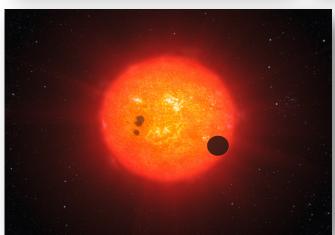








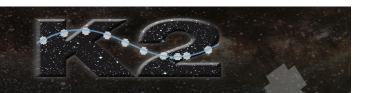












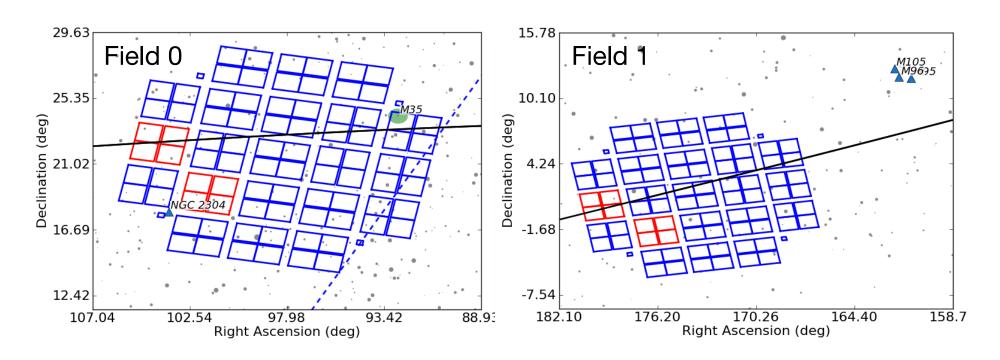
A Community Facility

- Community advocacy allows the K2 Project to define final field locations for each campaign
- <u>All</u> science targets are proposed competitively by the community
- The science program for each campaign is set by peer review of target proposals
- All data collected is archived immediately after calibration with no exclusive use period
- K2 encourages open source data analysis software solutions and fosters a community of data problem solvers





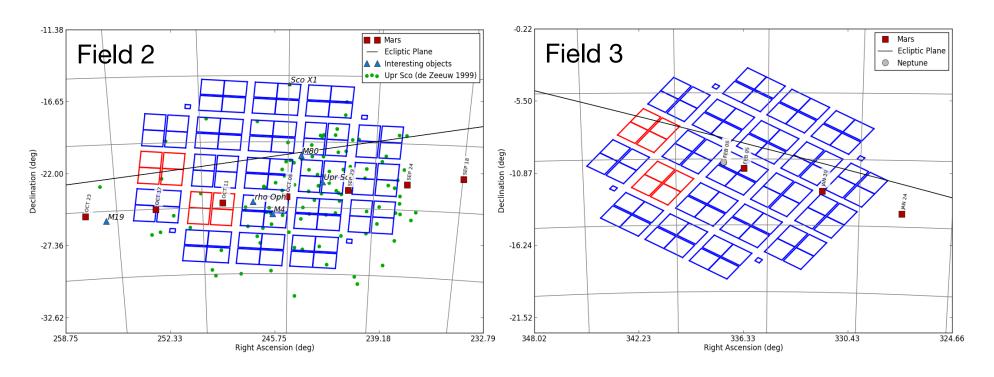
keplerscience.arc.nasa.gov/K2/Fields.shtml keplergo@mail.arc.nasa.gov







keplerscience.arc.nasa.gov/K2/Fields.shtml keplergo@mail.arc.nasa.gov





FIELD ADVOCACY

SCIENCE AND TARGET PROPOSALS

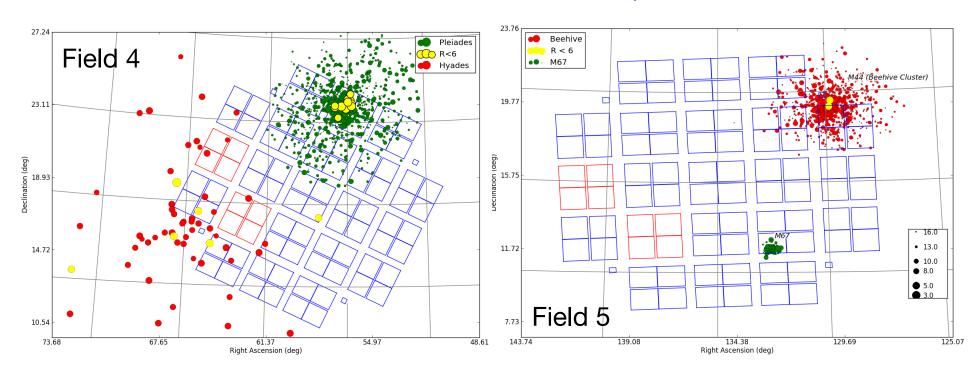
PEER REVIEW

DATA DISTRIBUTION AND ARCHIVE

SOFTWARE



keplerscience.arc.nasa.gov/K2/Fields.shtml keplergo@mail.arc.nasa.gov

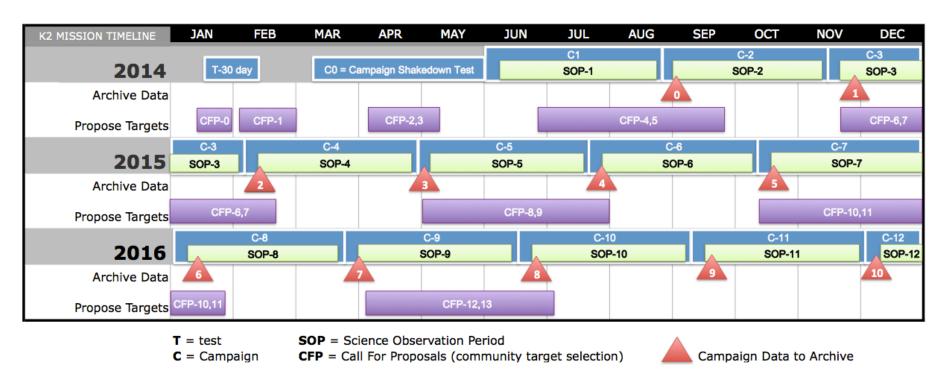






K2 Milestones

keplerscience.arc.nasa.gov/K2/MissionConcept.shtml



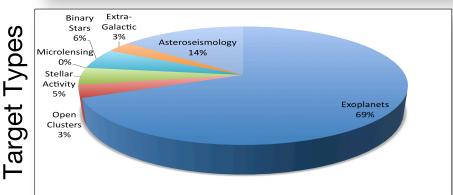




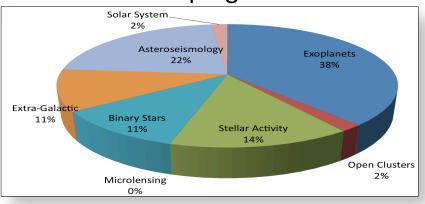
keplerscience.arc.nasa.gov/K2/GuestInvestigations.shtml

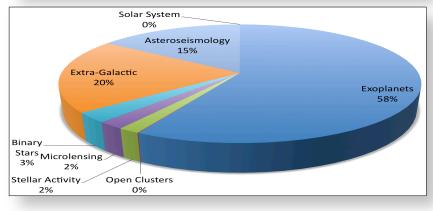
Campaign 0

Asteroseismolo gy 29% Extra-Galactic 7% Microlensing 1%



Campaign 1







Proposal Topics

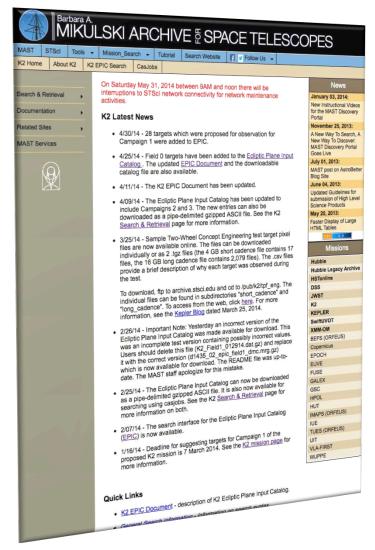


Future Science and Target Proposals

keplerscience.arc.nasa.gov/K2/ProposeTargets4-5.shtml nspires.nasaprs.com

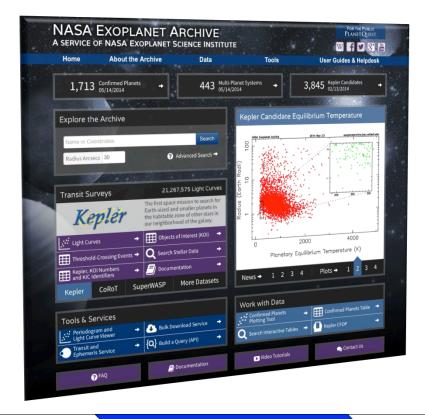
- Future campaign proposals will occur through the NSPIRES system
- Peer review will be administered by NASA HQ
- Next opportunity is campaigns 4-5, NASA Research Announcement on NSPIRES is imminent
 - Stage 1 deadline: Aug 8 2014
 - Stage 2 deadline: Sep 23 2014

Approx. \$4M of GO funding is available over the next 2 years



Archives and Data

archive.stsci.edu/K2 exoplanetarchive.ipac.caltech.edu





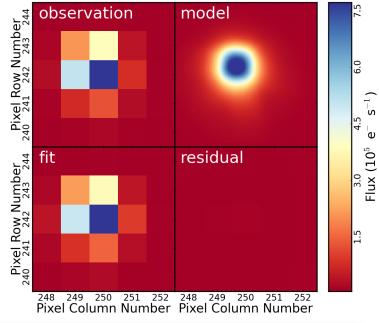
FIELD ADVOCACY

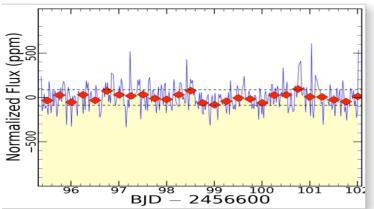
SCIENCE AND TARGET PROPOSALS

PEER REVIEW

DATA DISTRIBUTION AND ARCHIVE

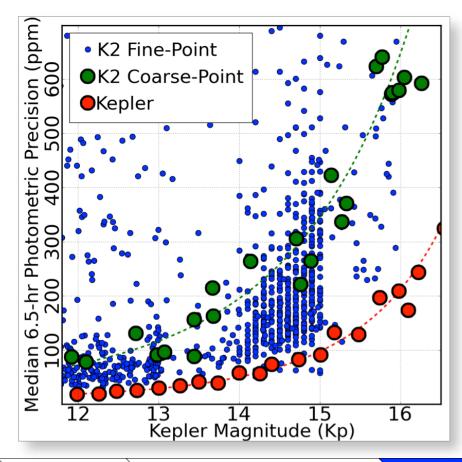
SOFTWARE





Data Analysis

keplerscience.arc.nasa.gov/PyKE.shtml



ASA

FIELD ADVOCACY

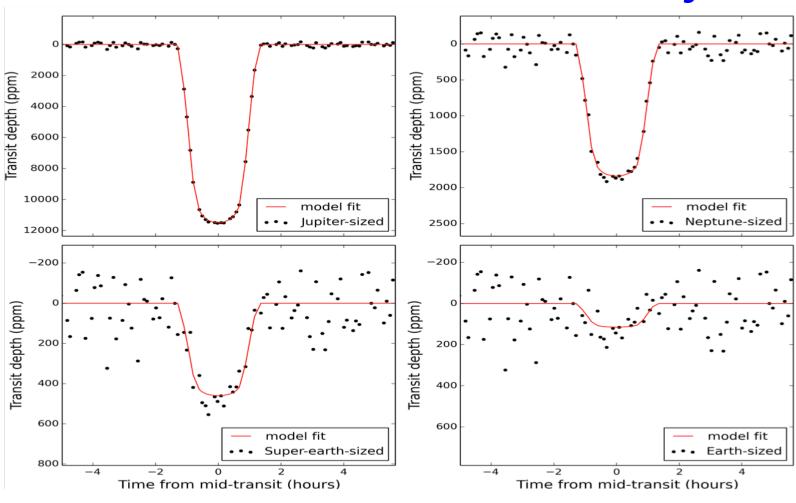
SCIENCE AND TARGET PROPOSALS

PEER REVIEW

DATA DISTRIBUTION AND ARCHIVE

SOFTWARE

Transit Injection

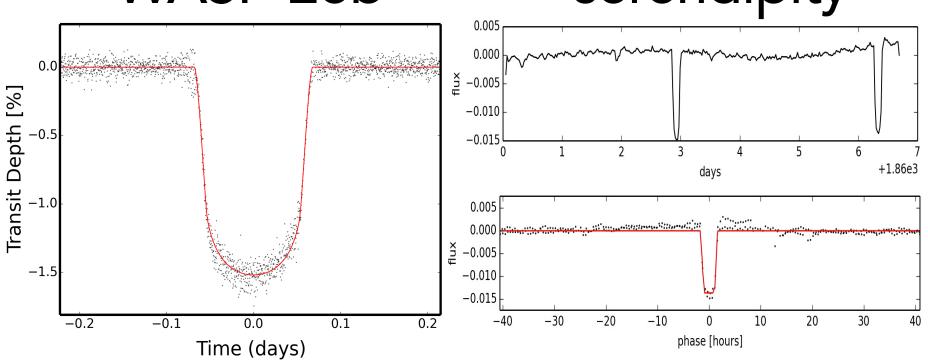




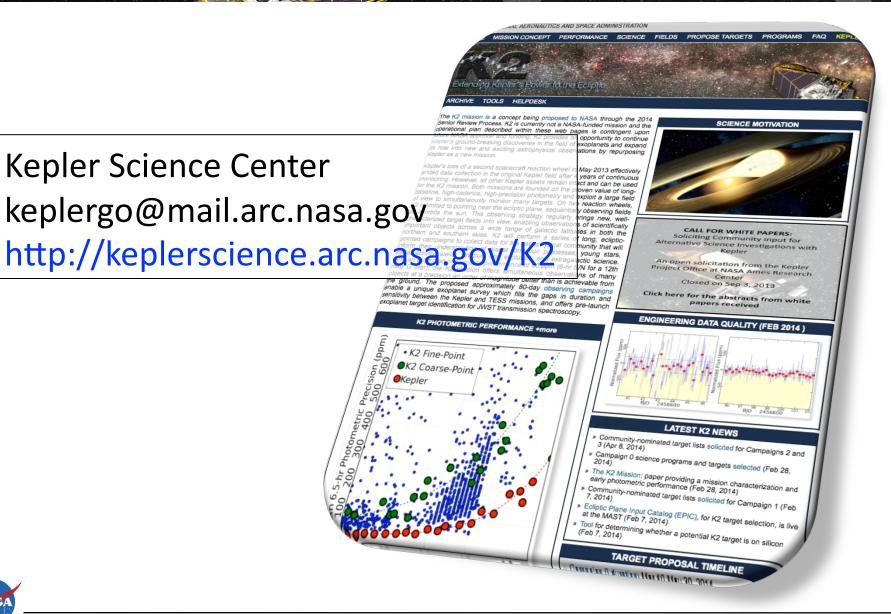


WASP-28b

serendipity









Summary

- K2 achieves similar photometric precision to Kepler within target fields along the ecliptic plane
- Fuel reserves suggest a 2-3 yr operational facility
- K2 is a community facility. The community:
 - advocates all fields
 - proposes and nominates all science programs
 - selects all targets
 - performs all science
- The community will need to be more hands-on with data reduction

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