







Kepler Data and Tools

Kepler Science Conference II November 5, 2013









Agenda

- Current and legacy data products (S. Thompson)
- Kepler Science Center tools (M. Still)
- MAST Kepler Archive (S. Fleming)
- NASA Exoplanet Archive (R. Akeson)
- Community Follow-up Observing Program CFOP (D. Ciardi)
- Questions and discussion









Current and legacy data products

Susan Thompson SETI/Kepler Science Office





Archive Overview





Kepler Project Products

- Target Pixel Files
- Light Curve Files
- Ancillary Files (CBVs, Background, Collateral)
- Data Release Notes
- FFIs

- TCE Tables (transit looking events)
- KOI Tables (planet candidates and false positives)
 - (Stellar Table)

Barbara A.
Mikulski
Archive for
Space
Telescopes





Quarterly Deliveries









Q&type	CAL/PA SOCv	PDC SOCv	DRN	Time Corr.	ms MAP	Cosmic Ray	new Flags
0-4 LC	8.0	8.3	21	Yes	-keywords	No	No
TPF	8.0		14	No	No	No	No
5-8 LC	8.1	8.3	21	Yes	-keywords	No	No
TPF	8.1		16	No	No	No	No
9 LC	8.0	8.3	21	Yes	-keywords	No	No
TPF	8.0		12	No	No	No	No
10 LC	8.0	8.3	21	Yes	-keywords	No	No
TPF	8.0		13	No	No	No	No
11 LC	8.0	8.3	21	Yes	-keywords	No	No
TPF	8.0		15	No	No	No	No
12 LC	8.1	8.3	21	Yes	-keywords	No	No
TPF	8.1		17	No	No	No	No
13 LC	8.2	8.3	21	Yes	-keywords	No	No
TPF	8.2		18	No	No	No	No
14 LC	8.3	8.3	21	Yes	-keywords	Yes	No
TPF	8.3		19	No	No	Yes	No
15 LC	9.0	9.0	20	Yes	Yes	Yes	No
TPF	9.0		20	Yes	Yes	Yes	No
16 LC	9.0	9.0	22	Yes	Yes	Yes	No
TPF	9.0		22	Yes	Yes	Yes	No
17 LC	9.1	9.1	23	Yes	Yes	Yes	Yes
TPF	9.1		23	Yes	Yes	Yes	Yes

The data archive is **not** complete.

Which light curve are you using?

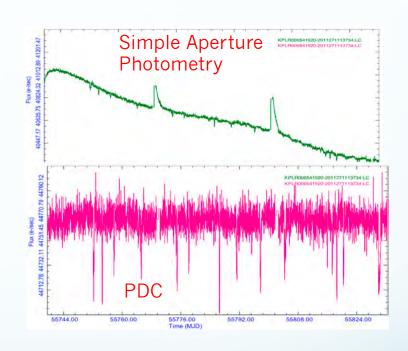








- Light Curve Options:
 - SAP_FLUX
 - PDCSAP_FLUX
 - SAP_FLUX + CBVs
 - Go to the Pixels (TPFs)
 - Customized Simple Aperture Photometry
 - PRF photometry













PDC msMAP

PDCSAP_FLUX

Multiscale MAP

Band1: robust

Band2:

robust prior none

Band3: none

Standard MAP

One Band: robust prior none

SC: quickMap

One Band: robust prior none

Header Keywords:

- PDCMTHD: Which MAP algorithm was used (multiScaleMAP, regularMAP)
- FITTYPEj: Describe how the jth band is treated (robust, prior, none)







PDC msMAP

- 4 Goodness metrics given as absolute values (0—1) and percentiles compared to other targets
 - Variability (was variability removed?)
 - Noise (was noise added?)
 - Earth Point (was earth point recoveries corrected well?)
 - Correlation (are correlated systematics remaining?)

Full Header Keywords are currently only available in Q15—Q17.

Quality Flags



 Quality Flags, which actually mean the data is bad?

Bit	Value	Explanation
1	1	Attitude Tweak
2	2	Safe Mode
3	4	Spacecraft is in Coarse Point
4	8	Spacecraft is in Earth Point
5	16	Reaction wheel zero crossing
6	32	Reaction Wheel Desaturation Event
7	64	Argabrightening detected across multiple channels
8	128	Cosmic Ray in Optimal Aperture pixel
9	256	Manual Exclude. The cadence was excluded because of an anomaly.
10	512	Reserved
11	1024	SPSD detected. This bit is flagged on the last non-gapped cadence before the maximum positive change due to the detected SPSD.
12	2048	Impulsive outlier removed before cotrending
13	4096	Argabrightening event on specified CCD mod/out detected
14	8192	Cosmic Ray detected on collateral pixel row or column in optimal aperture
15	16385	Single event functional interrupt in accumulation memoryGeneral Detector Anomaly
16	32768	Not in Fine Point
176	3276865536	Single event functional interrupt in cadence memoryNo Data Collected

Quality Flag bit& 10010110100010111

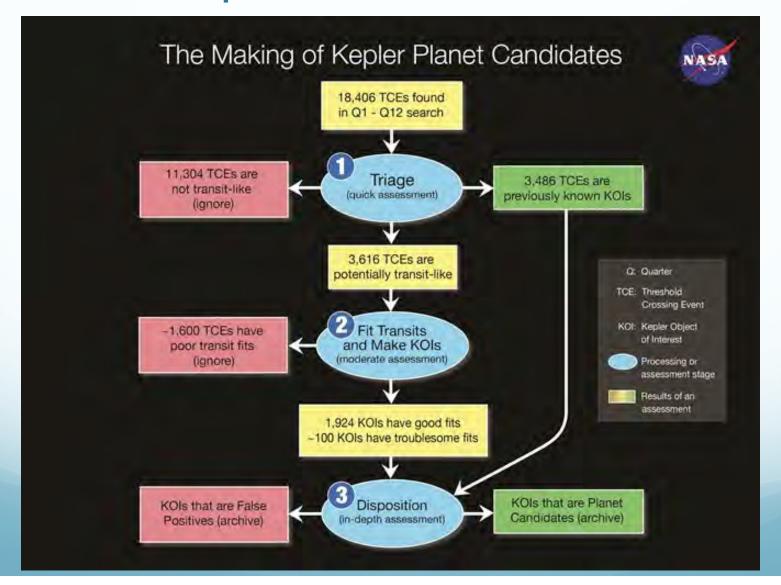
Delivering Transits to the Exoplanet Archive







Barbara A. Mikulski Archive for Space Telescopes



Exoplanet Archive: Status Report









- Q1-Q8 KOI Table
 - Data is almost DONE. Paper submitted. Values can change until table is closed.
- Q1-Q12 KOI Table
 - First pass at Giving Dispositions (PC/FP) is done.
 - We will improve the fits to the transits
 - Provide fits for those KOIs not found by the Q1-Q12 TPS/DV planet search.
- Q1-Q16 Activity
 - TCEs have been delivered.
 - We will deliver a Q1-Q16 KOI table, including new KOIs found from the TCEs and provide dispositions as the work is done.
 - Deliver Stellar Table from the Stellar WG. Table gives parameters used by the Q1-Q16 planet search for all targets searched.

Cumulative Table

 Pulls together information from the other KOI Activity Tables. Gives most recent disposition and best fit.









Kepler Science Center Tools

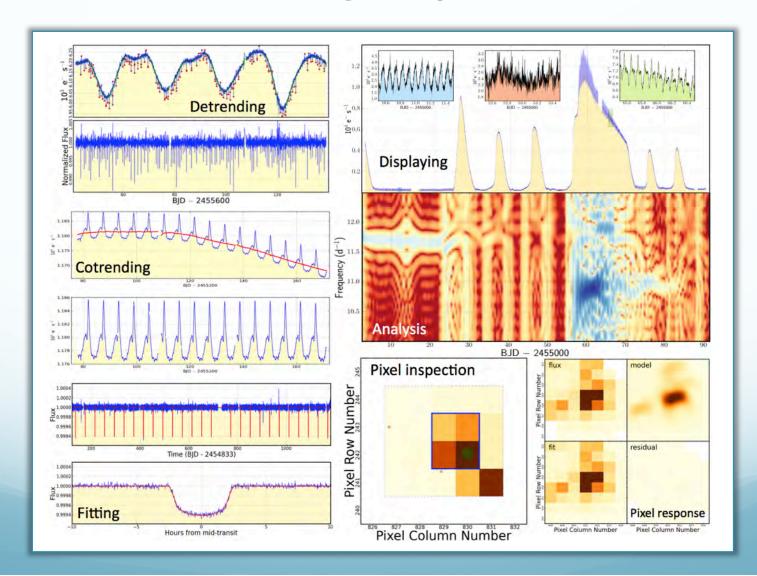
Martin Still Kepler Project, NASA Ames Research Center







PyKE keplerscience.arc.nasa.gov/PyKE.shtml

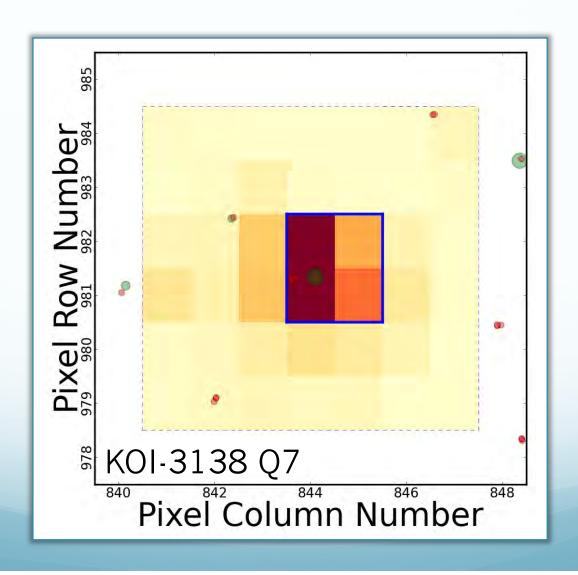












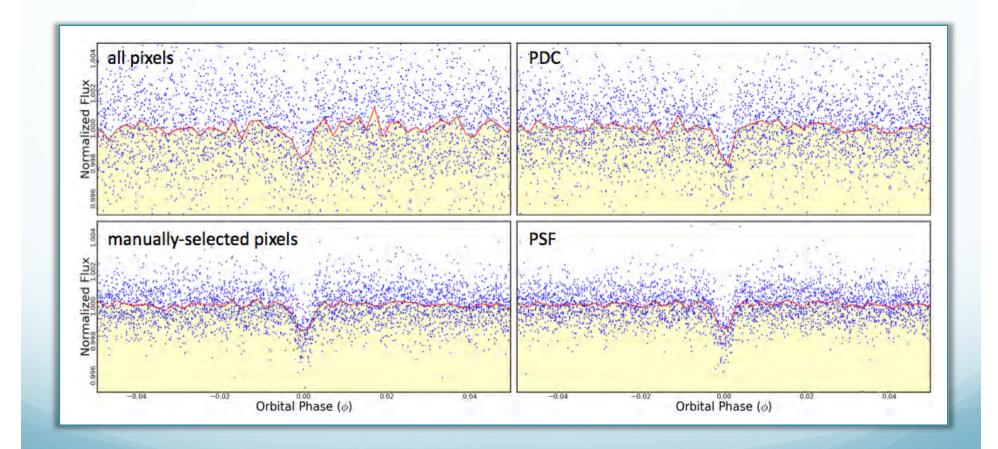
Tools used: kepfield



















keplerscience.arc.nasa.gov/ PyKEprimer.shtml

Kinemuchi et al. (2012) PASP 124 963

Tools used: kepfield

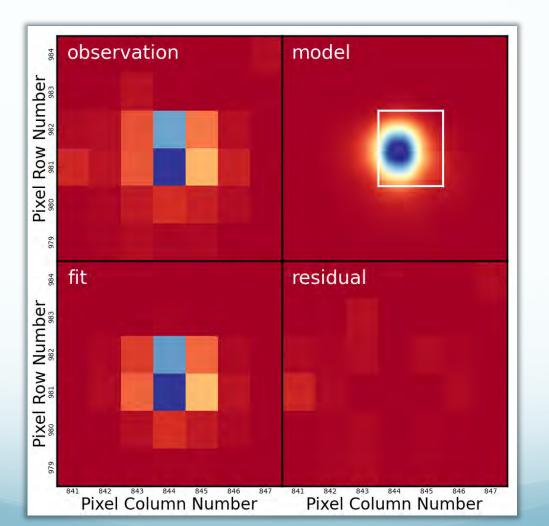




Archive for Space Telescopes





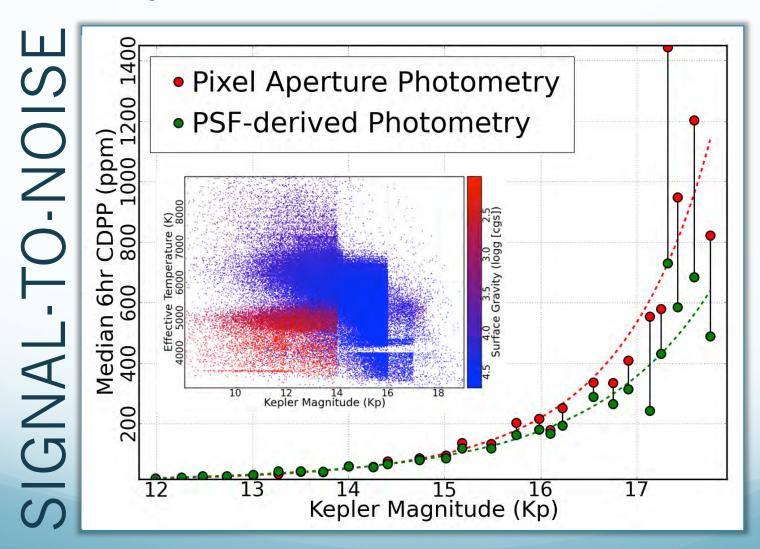












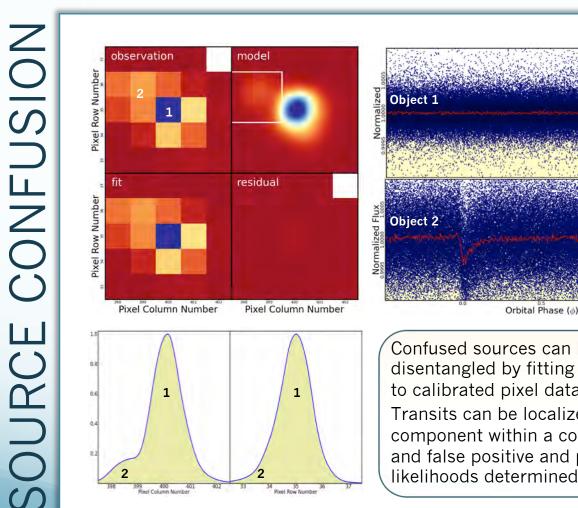






KOI-2700 Q1-16





Confused sources can be disentangled by fitting a PSF model to calibrated pixel data.

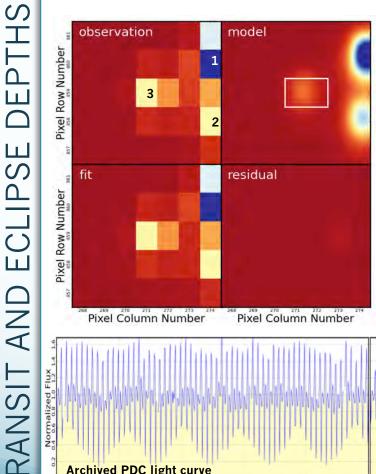
Transits can be localized to a single component within a confused source and false positive and planet likelihoods determined.







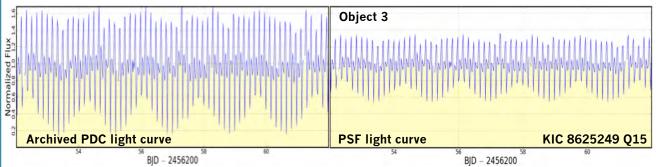




Aperture photometry of confused transiting or eclipsing sources will yield transit or eclipse depths biased by contaminating flux within the aperture.

The Kepler Project infers the fractional contamination by modeling the local field as defined within the Kepler Input Catalog. Archived PDC photometry contains these inferred corrections.

PSF photometry bypasses the need to calculate and apply a contamination correction.

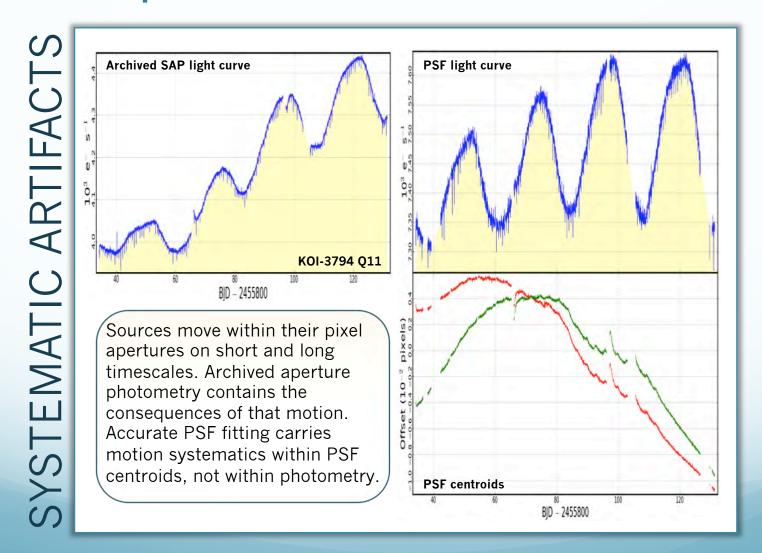




















MAST Kepler Archive

Scott Fleming
Space Telescope Science Institute

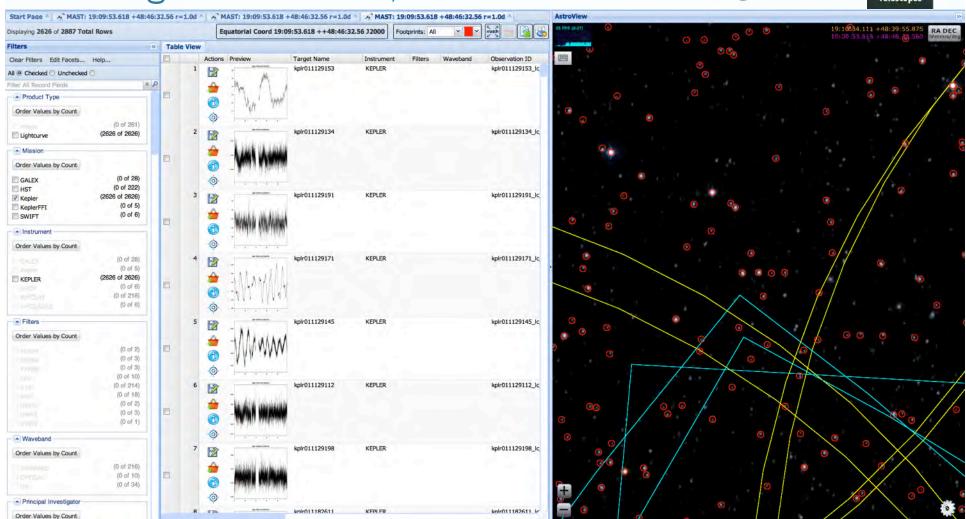
MAST Discovery Portal Kepler Arriving Winter 2013; archive.stsci.edu











MAST Discovery Portal Kepler





Archive for Telescopes

Arriving Winter 2013; archive.stsci.edu

otal	Rows					NAME Kepler-1	6 matten
	Actions	Short Name	Туре	Title	Waveband	Records Found	FITS Image
1	2 3	Spitzer Level 1	0	Spitzer Level 1 / Basic Calibrated Data	Infrared	392	392
2	A	WISE All-Sky L1B	0	WISE All-Sky 4-band Single-Exposure Images	Infrared	180	180
3	2 3	ADS		Astrophysics Data System	Radio, Millim	66	0
4	P B	ктс	199 NO 199 HE	Kepler Data Search	Visible	38	0
5	2 B	DSS ESO	0	Digitized Sky Survey		16	8
6	A	2MASS QL	0	2MASS All-Sky Quicklook Image Service	Infrared	12	6
7	2 3	2MASS ASKY AT	0	2MASS All-Sky Atlas Image Service	Infrared	12	6
8	2 a	SuperCOSMOS [1]		SuperCOSMOS Science Archive (SSA)	Optical	12	0
9	2 B	IRTS	2	The Infrared Telescope in Space Data Atlas	Infrared	11	11
10	2 B	ROSAT SIA	0	SIA Service for ROSAT Archive	X-ray	8	8
11	2 B	CADC	2	CADC Image Search	Millimeter, In	5	5
12	2 8	CADC/CFHT	0	CADC/CFHT Image Search	Infrared, Opt	5	5
13	2 B	HEAVENS @ ISDC		Mining the HEAVENS with the Virtual Observatory	X-ray, Gamm	5	0
14	2 B	ISSA	0	The IRAS Sky Survey Atlas	Infrared	4	4
15	2 3	GALEX	0	Galaxy Evolution Explorer	UV	4	2
16	2 a	HEAVENS @ ISDC	0	Mining the HEAVENS with the Virtual Observatory	X-ray, Gamm	4	4
17	2 6	WISE All-Sky L3A	0	WISE All-Sky 4-band Atlas Coadded Images	Infrared	4	4
18	A	GALEX	10 pt	Galaxy Evolution Explorer	UV	3	0
19	P (2)	SuperCOSMOS [2]	10 12	SuperCOSMOS Science Archive (SSA)	Optical	3	0

MAST Discovery Portal Kepler

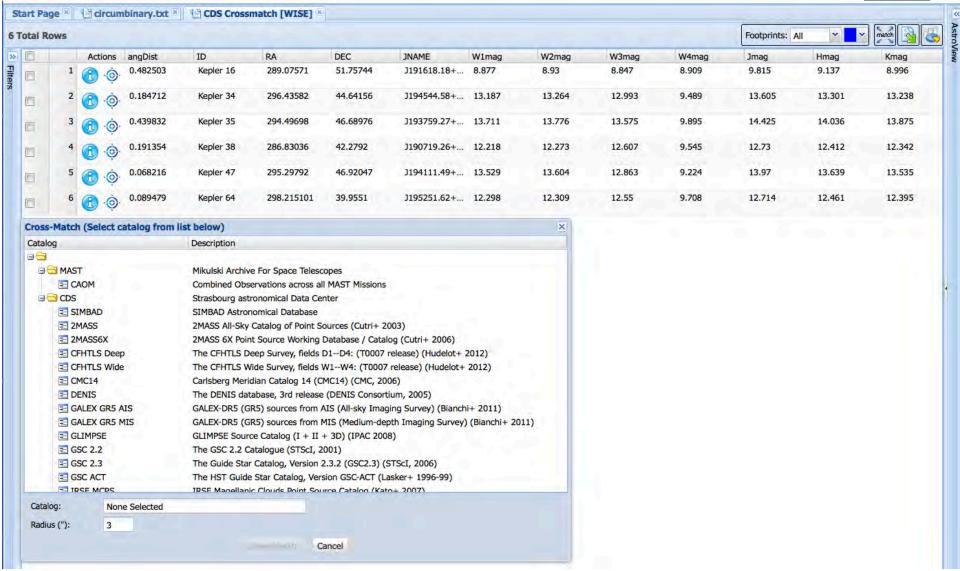












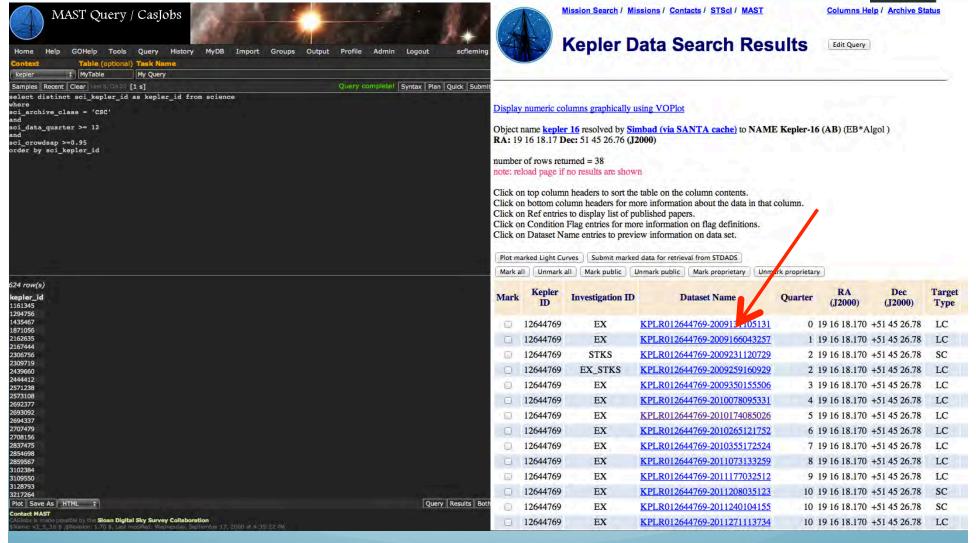
Kepler CasJobs / Previews Kepler http://mastweb.stsci.edu/kplrcasjobs/











Variability Stats Available In CasJobs / Previews Soon

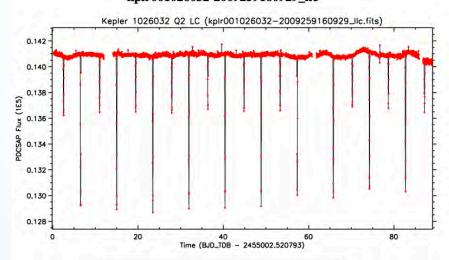








kplr001026032-2009259160929_llc



PREV	STATS	NEXT	
KEPLER_ID	QUARTER	CADENCE	
1026032	2	LC	
KOI?	EB?	Red Giant?	
NO	YES	NO	
PARAMETER	VALUE	PERCENTILE	
RVAR_10	3.299296	80	
RVAR_30	3.408074	80	
MDV	0.247050	75	
NZC_0	1043.	40	
NZC_10	89.	30	
SIGMA_OVER_MU_%	0.850057	95	
SKEWNESS	-7.018317	0	
KURTOSIS	54.059169	95	
CON_STAT	1.016314	80	
ETA	0.119165	20	
STETSON_J / 1000	22.622047	85	
STETSON_K	0.339319	0	
N_3SIGMA_SEGS	18. 100		

	THE SECTION ASSESSMENT OF THE SECTION OF THE SECTIO	r, diff. dataset, current dataset in red)	
Plots vs. Quarter	Dataset, Q, SC/LC, Value	Plots vs. Quarter	Dataset, Q, SC/LC, Value
RVAR_10 (Machine)	Readable)	RVAR_30 (Machine F	teadable)
Circle=LC, Square=SC 14 10 10 10 10 10 10 10 10 10 10 10 10 10	2009166043257 I LC 4.579782 2009259160929 2 LC 3.299296 2009350155506 3 LC 9.989560 2010078095331 4 LC 6.497979 2010174085026 5 LC 3.348231 2010265121752 6 LC 11.410952 2010355172524 7 LC 4.462838 2011073133259 8 LC 3.730595 2011177032512 9 LC 2.492428 2011271113734 10 LC 8.368671 2012004120508 I1 LC 11.773169 2012088054726 12 LC 3.395379 2012179063303 13 LC 7.364810 2012277125453 14 LC 4.907012 2013011073258 15 LC 5.885661 2013098041711 16 LC 2.092779	Circle=LC, Squore=SC	2009166043257 I LC 5.318046 2009259160929 2 LC 3.408074 2009350155506 3 LC 4.426360 2010078095331 4 LC 3.077090 2010174085026 5 LC 3.907382 2010265121752 6 LC 6.015182 2010355172524 7 LC 4.464388 2011073133259 8 LC 4.700363 2011177032512 9 LC 2.668798 2011271113734 10 LC 4.241288 2012004120508 11 LC 9.049296 2012088054726 12 LC 3.866732 2012179063303 13 LC 3.226936 2012277125453 14 LC 8.348525 2013011073258 15 LC 6.000737 2013098041711 16 LC 3.499448
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Circle=LC, Squore=SC 0.5 0.4 0.0 0.1 0.1 2 3 4 5 6 7 8 9 10111213141516 Quorter	2009166043257 I LC 0.288047 2009259160929 2 LC 0.247050 2009350155506 3 LC 0.207501 2010174085026 5 LC 0.246006 2010265121752 6 LC 0.246807 2010355172524 7 LC 0.274647 2011073133259 8 LC 0.22463 2011177032512 9 LC 0.189889 2011271113734 I0 LC 0.259716 2012004120508 I1 LC 0.439425 2012088054726 I2 LC 0.214306 2012179063303 I3 LC 0.90044 2012277125453 I4 LC 0.351814 20130110732528 I5 LC 0.251668 2013098041711 I6 LC 0.279234	Circle=LC, Squore=SC 1500 1000 0 1 2 3 4 5 6 7 8 9 10111213141516 Quorter	2009166043257
NZC_10 (Machine R	eadable)	(SIGMA / MU) (percent) (Ma	chine Readable)
Circle=LC, Squore=SC	2009166043257 1 LC 13.	Circle=LC, Squore=SC 1.05 0.05 0.05 0.85 0.80 0.12 3 4 5 6 7 8 9 10111213141516	2009166043257 1 LC 0.867956 2009259160929 2 LC 0.850057 2009350155506 3 LC 0.952804 2010078095331 4 LC 0.905103 2010174085026 5 LC 0.849184 2010265121752 6 LC 0.849387 2010355172524 7 LC 0.958372 2011073133259 8 LC 0.905838 2011177113734 10 LC 0.819732 2012004120508 11 LC 0.891732 2012004120508 11 LC 0.990155 2012277125453 14 LC 0.888402 20121771125453 14 LC 0.898428 2013011073258 15 LC 0.989428

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Kepler Front Page: archive.stsci.edu/kepler



Please take our survey: http://archive.stsci.edu/survey2013.html

Visit my poster 2-314 for more details, new data planned for release.

Also, ask Dorothy or myself for a personal demonstration of how the Discovery Portal can be used for your specific research needs.









NASA Exoplanet Archive

Rachel Akeson
NASA Exoplanet Science Institute

NASA Exoplanet Archive

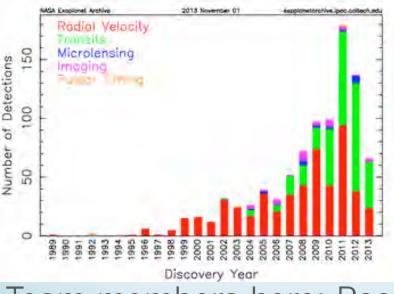


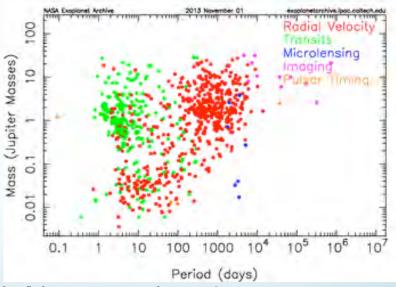






 The NASA Exoplanet Archive collects and serves public data to support the search for and characterization of exoplanets and their host stars.





Team members here: Rachel Akeson, Jessie
 Christiansen, David Ciardi, Peter Plavchan, Solange
 Ramirez









Overview

- Data
 - Confirmed planet and stellar host properties
 - Kepler pipeline data
 - TCE lists
 - KOI activity tables
 - Data validation files
 - Stellar properties of targets stars
 - Kepler/KOI/KepID names cross-matching
 - Time series/light curves
 - Kepler
 - CoRoT
 - SuperWASPXO, HATNet, TrES, etc

- Tools
 - Interactive tables with sorting, filtering and plotting capabilities
 - Interactive visualization for Kepler and SuperWASP light curves
 - Periodogram tool
 - Transit prediction tool
 - API interface to data

http://exoplanetarchive.ipac.caltech.edu

Kepler pipeline data: TCEs, data validation, stellar properties



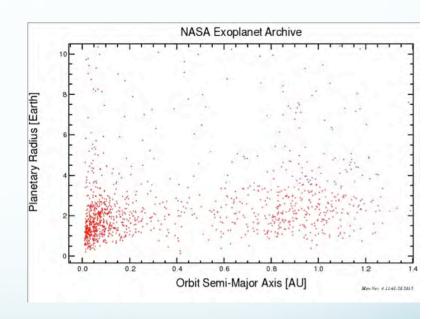






- Interactive table with each TCE table available in a separate tab
 - Plotting available from table
- Data validation reports and summaries (Q1-12 and Q1-16)
- Links between objects, DV reports and light curves

Stellar properties for target stars: Q1-12 (Q1-16 coming soon)



Q1-16 TCEs with SNR/MES > 0.6 and $T_{stellar}$ < 5000 K

KOIs and confirmed Kepler planets









- Interactive table for KOI activity tables: Q1-6, Q1-8, Q1-12, cumulative
- Kepler names: cross match between Kepler, KOI, KeplD and published names for confirmed planets
 - Also links to policy for assignments of Kepler names
- Links between objects, DV reports and light curves

Kepler Names					
KepID	KOI Name	Kepler Name	Confirmed Name	2MASS Name	
11446443 🕠	K00001.01	Kepler 1 b	TrES-2 b	2MASS J19071403+4918590	
10666592 🔮	K00002.01	Kepler-2 b	HAT-P-7 b	2MASS J19285935+4758102	
10748390 🛈	K00003.01	Kepler-3 b	HAT-P-11 b	2MASS J19505021+4804508	
11853905 🕕	K00007.01	Kepler-4 b	Kepler-4 b	2MASS J19022767+5008087	
8191672 0	K00018.01	Kepler-5 b	Kepler-5 b	2MASS J19573768+4402061	
10874614 🕛	K00017.01	Kepler 6 b	Kepler-6 b	2MASS J19472094+4814238	
5780885 🕛	K00097.01	Kepler 7 b	Kepler-7 b	2MASS J19141956+4105233	
8922244 0	K00010.01	Kepler 8 b	Kepler-8 b	2MASS J18450914+4227038	
3323887 🕛	K00377.01	Kepler 9 b	Kepler-9 b	2MASS J19021775+3824032	
3323887 🕕	K00377.02	Kepler 9 c	Kepler-9 c	2MASS J19021775+3824032	
3323887 🕛	K00377,03	Kepler 9 d	Kepler-9 d	2MASS J19021775+3824032	
11904151 0	K00072.01	Kepler 10 b	Kepler-10 b	2MASS J19024305+5014286	
11904151 🕕	K00072.02	Kepler-10 c	Kepler-10 c	2MASS J19024305+5014288	
8541920 🕛	K00157.06	Kepler-11 b	Kepler-11 b	2MASS J19482762+4154328	
8541920 🛈	K00157.01	Kepler 11 c	Kepler-11 c	2MASS J19482762+4154328	
8541920 0	K00157.02	Kepler 11 d	Kepler-11 d	2MASS J19482762+4154328	
8541920 🕔	K00157,03	Kepler-11 e	Kepler-11 e	2MASS J19482762+4154328	
8541920 🛈	K00157.04	Kepler 11 f	Kepler-11 f	2MASS J19482762+4154328	
8541920 🕡	K00157.05	Kepler 11 g	Kepler-11 g	2MASS J19482762+4154328	
11804465 🕛	K00020.01	Kepler 12 b	Kepler-12 b	2MASS J19045842+6002253	
9941662 🛈	K00013.01	Kepler-13 b	KOI-13 h	2MASS J19075308+4652061	
10264660 🕕	K00098.01	Kepler 14 b	Kepler-14 b	2MASS J19105011+4719589	
11359879 0	K00128.01	Kepler 15 b	Kepler-15 b	2MASS J19444814+4908244	
12644769 0	K01611.02	Kepler-16 b	Kepler-16 b	2MASS J19161817+5145267	
10619192 0	K00203.01	Kepler-17 b	Kepler-17 b	2MASS J19533486+4748540	
8644288 🐠	K00137.03	Kepler-18 b	Kepler-18 b	2MASS J19521906+4444467	
8844288 🛈	K00137.01	Kepler 18 c	Kepler-18 c	2MASS J19521906+4444467	
0 00CAASO	K00437.02	Kapler 19 d	Kaclas 19 d	SMACC HORSHORE MANAGE	

NEW! SuperWASP data



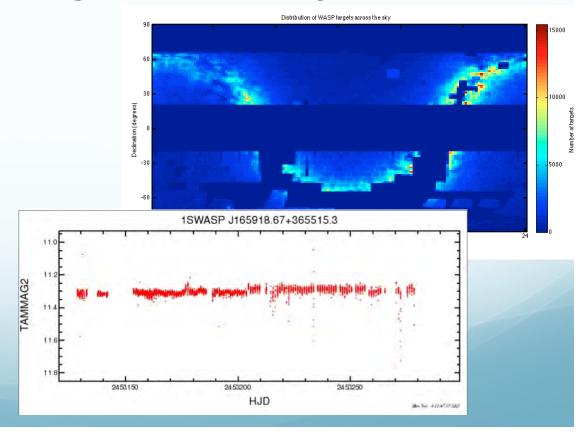






- The WASP consortium has made data from the first WASP data release (2004-2008) available
- 18 million objects covering most of the sky

- Users can
 - Search light curve metadata
 - Download metadata or light curves directly
 - See magnitude and spatial distributions of targets



Light curves and periodograms

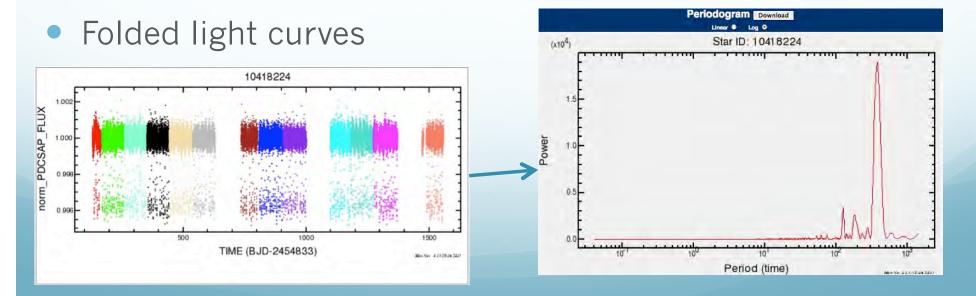








- Interactive light curve viewer
 - Combine and normalize Kepler quarters
- Periodogram tool
 - For light curves in the archive or uploaded
 - Three algorithms available: BLS, Lomb-Scargle, Plavchan













- Predictions of transits based on planet/stellar parameters in archive or user supplied
 - For confirmed planet and KOIs

Viewable Transits - KOIs

11/06/2013 03:05

11/06/2013 05:38

11/06/2013 07:16

11/06/2013 07:38

11/06/2013 10:43

11/06/2013 03:35

11/06/2013 12:30

11/06/2013 13:17

11/06/2013 08:18

11/06/2013 10:12

11/06/2013 02:09

11/06/2013 03:46

11/06/2013 06:13

11/06/2013 05:26

- By object
- By location

0.00

0.00

0.00

0.00

0.00

0.25

0.25

0.25

0.25

0.25

0.25

Viewable Transits - Confirmed Planets

Kepler-24 b

Kepler-44 b

WASP-28 b

WASP-32 b

WASP-36 b

WASP-44 b

WASP-65 b

CoRoT-18 b

CoRoT-19 b

CoRoT 23 b

HAT-P-17 b

HAT-P-23 b

HAT-P-6 b

W 14

₩ 15

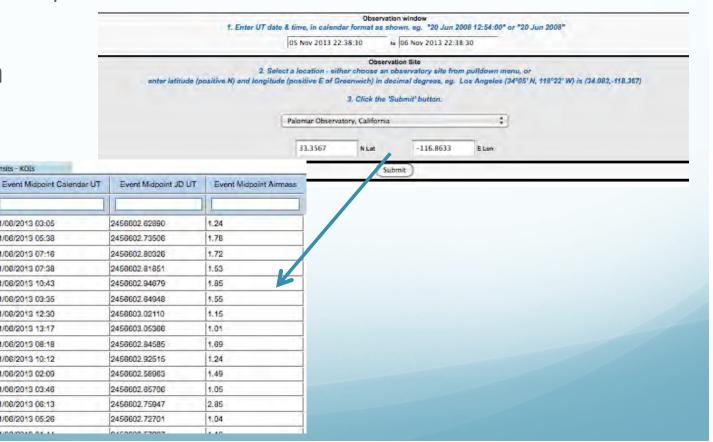
₩ 16

₩ 17

₩ 18

₩ 19

PlanetName



Keck Observatory Archive

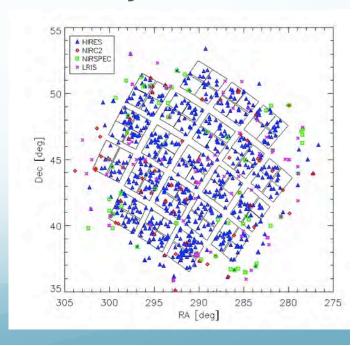








- Overview
 - Currently contains public data from HIRES, NIRSPEC, NIRC2, LRIS
 - All instruments will be included by early 2014
 - Operated by NExScI and WM Keck Observatory
- Kepler content
 - Keck has been used extensively for follow-up observations
 - Over 7000 science files from the Kepler field are available in the archive



http://koa.ipac.caltech.edu



The Community Follow-Up Observation Program Website (CFOP)

https://cfop.ipac.caltech.edu

David Ciardi
NASA Exoplanet Science Institute









CFOP Purpose

- Coordinated and Systematic spectroscopic and imaging program of the KOIs
 - To support the determination of the false positive probabilities
 - To determine the stellar properties of the host stars
 - To determine the photometric blending of the host stars
- Need to communicate and organize observing priorities and accomplishments
 - Make best efficient and effective use of the facilities available
 - Avoid duplication of effort
 - Avoid observing of false positives or already confirmed planets (unless, of course, you want to observe them)
- Sharing of data, notes, derived parameters, files, analysis ...











- All KOIs identified by the Kepler Project
 - Candidates/Confirmed: 3602 planets around 2716 stars
 - False Positives: 2183 "planets" around 2140 stars
 - Synced with the Kepler pipeline output and Exoplanet Archive
- Uploaded content
 - Over 55,000 stellar parameters
 - Over 16,000 planetary parameters
 - Over 70,000 files
- For each KOI
 - Summary Page
 - Coordinates, magnitudes, transit parameters, stellar parameters, planet parameters
 - Free form observing notes
 - File upload
 - Observing summary table

Summary KOI Page





	Star #26					Remove fi	rom MyKOIs								
Download all d					Magnitu	des (10)	+ Add new >	Download							65
Download all files: tar zip View/Edit Observing Notes					200	Value	Uncertainty	Notes		Us	er				U
	net Archive over	San		e DV summary)		18.249	0.033	Closest	JBV source fr towell, Kinem	m cu	ırdi				
	net Archive tran 2013-09-17 11:				+ B (1)			2012; di	t=0.261arcs	ac 20	13-07-07 0	4:45:12			
					a g'(1)	17.596	0.000			20	plerproject 113-03-22 1	6:01:40			U
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Kepler Name					+ Kep (1)	15.931	0.000			toe	plerproject				21
Position (J2000)	RA		DEC			15.218	0.000			los	plerproject				25
(32000)	19:37	7:27.86	49:54:54.	21	+ i'(1)					-	plerproject	6:01:40			21
	294.3	294.366089 49.915058		3	+ 5, (1)	14.761	0.000		2013-03-2		13-03-22 1	2 16:01:40			23
Kepler mag	15,931	1			+ 3(1)	13.454	0.022			20	plerproject 113-03-22 1	6:01:40			25
Ks mag	12.635	5			+ H(1)	12.784	0.021			loe 20	plerproject 113-03-22 1	6:01:40			25
Proper motion (arcsec/yr)		0.0000			* Ks (1)	12.635	0.024			20 20	plerproject 13-03-22 i	6:01:40			25
Multiplicity (from UKIRT)		4 arcsec: 2 s			1										21
Multiplicity		4 arcsec: 1 s			Stellar P	arameters	(1) Sho	w all + Ac	dd new >	Download					
(UBV)	Within	10 arcsec: 1 s	ource		Teff lo	g(g) Radius (R_Su		Spectral Type	logR'HK	[Fe/H]	Distance (pc)	Mass (M_Sun)	Density (g/cm3		Lumin (L_5u
Transit P	arameters	s (1) + Ad	d new > C	Download		750 0.5020 0.500 ±0.024				-0.200 +0.000		0.5200 +0.0340			
Transit P	Epoch (BJD)	Period (days)		Depth (mmag)									-		
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Every datum and file connected to

owner (and contact information)

KIRT Multiplicity (32) F Show all + Help > Download BV Catalog Multiplicity (19) # Show all + Help > Download Dec RA Dec Distance PA U mag B mag V mag VKepmag d_Kepmag KIC KIC_Kepmag KIC_Dist User 04,36604 49,915090 19:37:27.84 49:54:54.32 0.193 -41.38 18.249 16.890 16.57 0.64 94.37244 49.918516 19:37:29.38 49:55:06.65 26.05 49.807 17.928 17.359 16.509 16.18 0.25 94.35941 49.919692 19:37:26.25 49:55:10.89 29.24 -42.83 11768129 18.23 94.35846 49.918020 19:37:26.03 49:55:04.87 29.44 -58.89 18.122 18.151 17.538 17.21 1.28 94.37104 49.906971 19:37:29.04 49:54:25.09 34.14 158.45 94.35624 49.914007 19:37:25.49 49:54:50.42 35.63 -99.41 15.828 15.902 15.401 15.08 -0.85 0.332 94.37697 49.913733 19:37:30.47 49

Files (46) + Add new

- Finding_Chart (2)

(View codes)

everett 2013-07-30 23:54:19

everett 2013-07-27 06:05:14 everett 2013-07-27 06:05:14 ciardi 2013-07-07 16:37:17

specklegram	26261s-SH20130726a.fits	Gamini speckle image at 692nm	everett
specklegram	262619-5H201307268.hts	Gemini specicle image at 692 km	2013-09-17
specklegram	26261s-SH20130726b.fits	Gemini speckle imape at 880nm	2013-09-17
specklegram	26261s-SH20130726c.fits	Gemini speckle image at 692nm 26+27 July 2013 combined	everett 2013-09-17
specklegram	2626Is-SH20130726d.fits	Gemini speckle image at 880nm 26+27 July 2013 combined	everett 2013-09-17
specklegram	26261s-SH20130727a.fits	Gemini speckle image at 692nm	everett 2013-09-17
specklegram	26261s-SH20130727b.fits	Gemini speckle image at 860nm	everett 2013-09-17
specklegram	26261s-SH20130729a.fits	Gemini speckle image at 562nm	everett 2013-09-17
specklegram	26261s-SH20130729b.fits	Gemini speckle image at 447 nm	everett 2013-09-17
calibrated	2626Ic-dc20130615K.fits	Keck NIRC2-AO Image (approx. 3arcsec x 3arcsec)	clardi 2013-07-19
calibrated	26261c-dc20130615K,jpg	Keck NIRG2-AO JPG Preview (approx. 3arcsec x 3arcsec)	clardi 2013-07-19
calibrated	26261c-dc20130615K.ps	Keck NIRC2-AO sensitivity plot as a function of radius from the KOI	clardi 2013-07-19
calibrated	26261c-dc20130615K.tbl	Keck NIRC2-AO sensitivity table as a function of radius from the KOI	clardi 2013-07-19
calibrated	26261c-dc20130616UBV.src	UBV source detections within 1 arcminute from Everett, Howell, Kinemuchi 2012	clard) 2013-06-19
calibrated	26261c-dc20130618UKJ.src	Source Detections from UKIRT Survey: 1 arcmin search radius	clardi 2013-06-19
calibrated	26261c-dc20130601UK3.jpg	UKIRT J-band Image: 1.0x1.0 arcmin	2013-06-10
calibrated	26261c-dc20130601UKJ.fts	UKIRT J-band Image: 1.0x1.0 arcmin	2013-06-10
calibrated	26261c-dc20130601UKJ.tbl	UKIRT J-band source sensitivity table as a function of radius from KOI	2013-06-10
calibrated	26261c-dc20130601UK3-ps	UKIRT J-band source sensitivity plot as a function of radius from KOI	ciardi 2013-06-10
calibrated	26261c-SH20110626u.fits	WTVN-0.9m U-band image; 0.43 arcsec/pixel; up to 40"x40" in size	everett 2013-01-25
calibrated	26261c-SH20110626b.fee	WIYN-0.9m B-band image: 0.43 arcsec/pixel: up to 40"x40" in size	everett 2013-01-25
calibrated.	2626Jc-SH20110626v.fits	WTVN-0.9m V-band image; 0.43 arcsec/pixel; up to 40"x40" in size	everett 2013-01-25
calibrated	ubv_k198_b.fits	UBV WIYN survey image from Everett et al (268 MB)	everett 2013-01-10
calibrated	ubv_k195_u.fits	UBV WIYN survey image from Everett et al (268 MB)	everett 2013-01-10
celibrated	ubv_k195_v.fits	UBV WIVN survey image from Everett et al (268 MB)	everett 2013-01-10

- + Photometry (16) # Spectra (4)
- # RV (0)

Observing Notes

- Free form page for notes for each KOI
- Can link directly to any file that is associated with that KOI

Observing Notes for KOI #2626 KOI #2626 summary page Optional: Insert link to uploaded file: 2626Pp-SH20130729b.eps (everett 2013-09-17) Enter Notes 2013-09-13 15:29:32 Speckle imaging at Gemini on 2013-07-26, 2013-07-27 and 2013-07-29 reveals KOI2626 to be a triple source. Dates of observation, separations, PA, delta magnitudes in three filters are listed below. Secondary Source Date Filter Separation (") PA (deg) Delta m 2013-07-26 692nm 0.2100 209.10 2.05 2013-07-26 880nm 0.2102 213.57 1.35 2013-07-27 692nm 0.2178 215.41 2.86 2013-07-27 880nm 0.2110 215.67 2.01 2013-07-29 562nm 0,2132 211,36 1,91 Tertiary Source Date Filter Separation (") PA (deg) Delta m 2013-07-26 692nm 0.1561 193.31 2.91 2013-07-26 880nm 0.1665 186.80 1.48 ** 2013-07-27 692nm 0.1580 191.42 2.87 2013-07-27 880nm 0.1820 186.31 2.31 2013-07-29 562nm 0.1760 177.83 1.95 ** Note that the 2013-07-26 observation in the 880nm filter was adversely affected by scattered light (so was noisy). Because there are limitations to the quality of the data in 692 and 880nm on both nights (26th UT = noisy

Because there are limitations to the quality of the data in 692 and 880nm on both nights (26th UT = noisy 880nm images and 27th UT = relatively few frames for a total of 9 minutes integration), a combined reduction of the data from these two nights was performed. These particular reductions were done using a lower resolution filter in the image reconstruction (which is used for the background limit calculation). This means there are relatively fewer points in the background limit plot and limiting magnitudes below 0.04 arcseconds are not reliable. The combined data photometry given below are probably the best numbers for others to use for most applications:

Secondary Source

Filter Separation (") PA (deg) Delta m 692nm 0.2074 214.12 1.63 880nm 0.2090 213.46 0.88

Tertiary Source

Filter Separation (") PA (deg) Delta m 692nm 0.1532 186.87 2.22 880nm 0.1647 185.69 1.28

Note, too, that KOI2626 was observed through a 447nm filter on 2013-07-29. The S/N was insufficient in this case to analyze the secondary and tertiary sources at 447nm.

ciardi 2013-07-06 06:15:46

Observation Summaries

Spectroscopic Observations









- Tables of summary of observations for spectroscopy and imaging
- Intended to help users/observers know what has already been observed and with what quality

Sp	ectrosc	opic Obs	ervations		Downlo	ad as: Text CS	V	Bulk upload	data here	Sort	by: KOI		-		
403	3 total ol	bservations	; 1397 uniqu	ue stars	Page	1 of 9 ▼ Next	> KOIs p	per page: 500) •						
KOI	Telescope	Instrument	Spectral resolution (R)	Wavelength coverage	SNR/resolution	SNR waveleng	th Flux Calibra	Wave ated? Calibrat		Observation date (UT)		Notes	User		
4	Tillinghast	TRES	44000	3850 to 9096 A	24.4	5110 Angstron	ns No	Yes	Abs	2009-11-0801	:36:27.0		bieryla		
1	Tillinghast	TRES	44000	3850 to 9096 A	46.9	5110 Angstron	ns No	Yes	Abs	2010-05-2708	:57:51.2		bieryla		
1	Tillinghast	TRES	44000	3850 to 9096 A	55.1	5110 Angstron	ns No	Yes	Abs	2010-05-2908	:57:59.0		bieryla		
	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-01		with iodine	marcy		
1	KPNO 2.1	2	2600	364 to 512 nm			Yes	Yes		2009-06-01			howell		
4	NOT	FIES	46000	370 to 730 nm			No	Yes		2009-08-09 0	0:20:05		buchhave		
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-01		with iodine	marcy		
	Tillinghast	TRES	44000	3850 to 9096 A		5110 Angstron		Yes	Abs	2009-06-0708			bieryla		
5	Tillinghast	TRES	44000	3850 to 9096 A	11.6	5110 Angstron		Yes	Abs	2009-06-0708	:02:53.3		bieryla		
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-02		with iodine			
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-03		with iodine	and the second second		
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-04		with iodine			
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-04			marcy		
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-05		with iodine	a fat of the street		
5	Keck I	HIRES	60000	364 to 480 nm			No	Yes		2009-06-06		with iodine	marcy		
5	Keck I	Imagin	Observ	ations			ownload a	s: Text CSV	***B	ulk upload dat	a here**	*	Sort by:	KOI	-
5	Keck I														
5	Keck I	2529 tota	l observati	ons; 986 unio	que stars		Page 1 of	6 ▼ Next >	KOIs per p	age: 500 🔻					
5	Keck I														
5	Keck I	KOI Telesc	ope	Instrument	Filter		el scale	Estimated PSF	Estimated		servation	Notes			User
5	Keck I				()		csec)		Contrast		e (UT)				
5	Keck I	1 WIYN			592 (40) nm	0.0		0.05	Δ3.6 mag @		11-06-13	Speckl			everett
5	Keck I	1 WIYN			880 (50) nm	0.0		0.05	Δ3.0 mag @		11-06-13	Speckl			everett
5	.,	1 WIYN			592 (40) nm	0.0		0.05	Δ3.5 mag @		13-09-21	Speckl			everett
5	Keck I Keck I	1 WIYN			880 (50) nm	0.0		0.05	Δ3.5 mag @		13-09-21	Speckl			everett
5	Keck I	1 WIYN			592 (40) nm	0.0		0.05	Δ3.5 mag @		13-09-23	Speckl			everett
5	Keck I	1 WIYN		DSSI	880 (50) nm	0.0)2	0.05	∆3.5 mag @	0.2" 201	13-09-23	Speckl	•		everett
5	Keck I	2 WIYN		DSSI	592 (40) nm	0.0)2	0.05	∆4.1 mag @	0.2" 201	11-06-13	Speckl	•		everett
5	Keck I	2 WIYN		DSSI	880 (50) nm	0.0)2	0.05	Δ2.9 mag @	0.2" 201	11-06-13	Speckl	•		everett
-	KONO 2 4	3 WIYN		DSSI	592 (40) nm	0.0)2	0.05	∆4.2 mag @	0.2" 201	11-06-13	Speckl	2		everett
		3 WIYN		DSSI	880 (50) nm	0.0)2	0.05	Δ4.0 mag @	0.2" 201	11-06-13	Speckl	2		everett
		3 MMT-6	.5m	ARIES	Ks	0.0)2	0.15	∆8 mag @ 1	201	12-10-02	NGS-A	0		dupree
		3 MMT-6	.5m	ARIES]	0.0)2	0.2	∆8 mag @ 1	201	2-10-02	NGS-A	0		dupree
		4 WIYN		DSSI (592 (40) nm	0.0)2	0.05	Δ4.1 mag @	0.2" 201	0-09-17	Speckl	•		everett
		4 WIYN		DSSI :	562 (45) nm	0.0)2	0.05	Δ4.4 mag @	0.2" 201	10-09-17	Speckl	•		everett
		4 WIYN		DSSI	592 (40) nm	0.0)2	0.05	∆4.2 mag @	0.2" 201	0-09-18	Speckl	•		everett
		4 WIYN		DSSI !	562 (45) nm	0.0)2	0.05	∆4.8 mag @	0.2" 201	10-09-18	Speckl	•		everett
		5 Palom	ar-5m	Pharo	1	0.0	25	0.1	∆8 mag @ 1	200	9-09-10	NGS-A	0		ciardi
		5 WIYN			592 (40) nm	0.0		0.05	Δ4.0 mag @		10-09-17	Speckl			everett
		5 WIYN			562 (45) nm	0.0		0.05	Δ4.5 mag @		10-09-17	Speckl			everett
		5 WIYN			592 (40) nm	0.0		0.05	Δ4.5 mag @		10-09-18	Speckl			everett
		5 WIYN			562 (45) nm	0.0		0.05	Δ4.3 mag @		10-09-18	Speckl			everett
		5 WIYN						0.05							
					592 (40) nm	0.0			Δ4.2 mag @		10-09-21	Speckl			everett
		5 WIYN			880 (50) nm	0.0		0.05	Δ3.5 mag @		10-09-21	Speckl			everett
		5 Keck			Kprime	0.0		5	∆8 mag @ 0		13-08-20	NGS-A			ciardi
			CalarAlto		SDSSi: 766 (136)			0.05	Δ4.5 mag @		13-06-23		maging@10%	selection	lillobox
		7 Palom	ar-5m	Pharo :		0.0		0.1	∆8 mag @ 1		9-09-08	NGS-A			ciardi
		7 WIYN			592 (40) nm	0.0		0.05	Δ4.0 mag @		10-09-17	Speckl			everett
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		8 Palom	ar-5m	Pharo :]	0.0	25	0.1	∆8 mag @ 1	200	9-09-07	NGS-A	0		ciardi
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Parameter Search Page Kepler







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Notes Search Page









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Follow Your Favorite KOIS Kepler



Archive for Space Telescopes

 Sign up to receive nightly emails about a set of KOIs that you wish to "follow"

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MyKOIs (43)

MyKOIs is a user-defined list of KOIs for which of KOIs can be done in a variety of ways:

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From: cfop@ipac.caltech.edu

Date: October 30, 2013 3:21:31 PM PDT

Subject: CFOP MyKOIs Updated

To:









Summary

- CFOP is open to the public and is intended to enable collaborative efforts, sharing of data and results, and effective use of the facilities available to the general community
- All data on CFOP is available to the public request users to contact the data owners if you wish to utilize the data that has been uploaded
- Two posters to go see
 - Summary of CFOP Functionality 1 105
 - Summary of CFOP Content 1 106
- Questions or issues
 - cfop@ipac.caltech.edu
 - ciardi@ipac.caltech.edu







Questions, comments and discussion time