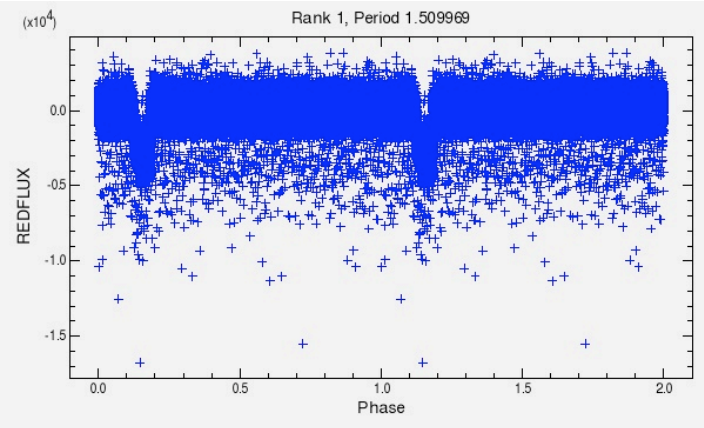
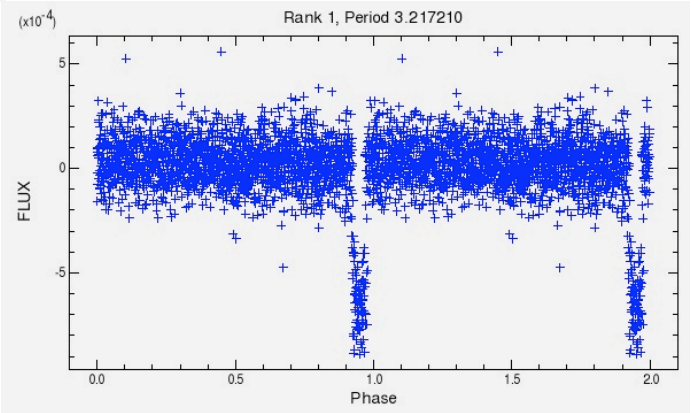
Accessing Kepler and CoRoT Data

via MAST, NStED, the IAS Data and Operations Center, & LAEFF



Phased Light Curve for CoRoT-1 showing the transiting exoplanet signal

Peter Plavchan
NExScI



Phased Light Curve for Kepler-4b.

BINARY FITS FILES VS. ASCII

- Modern time-series data sets are served in two formats:
  - Binary FITS Tables
    - Pros:
      - Standard data format
      - Compact file size
      - Standard headers (FITS keywords)
        - Supports inclusion of ancillary information
    - Cons:
      - Difficult to work with other visualization and manipulation tools
        - e.g., how to plot, load into Excel?
      - Fixed precision in data values – float or double – vs. formatting specified in somewhat obscure keywords
      - 64-bit vs. 32-bit wonkiness from heritage tools (e.g. long doubles)
        - Original Kepler public data release introduced machine precision errors into time and position values larger than the other noise sources.

BINARY FITS FILES VS. ASCII

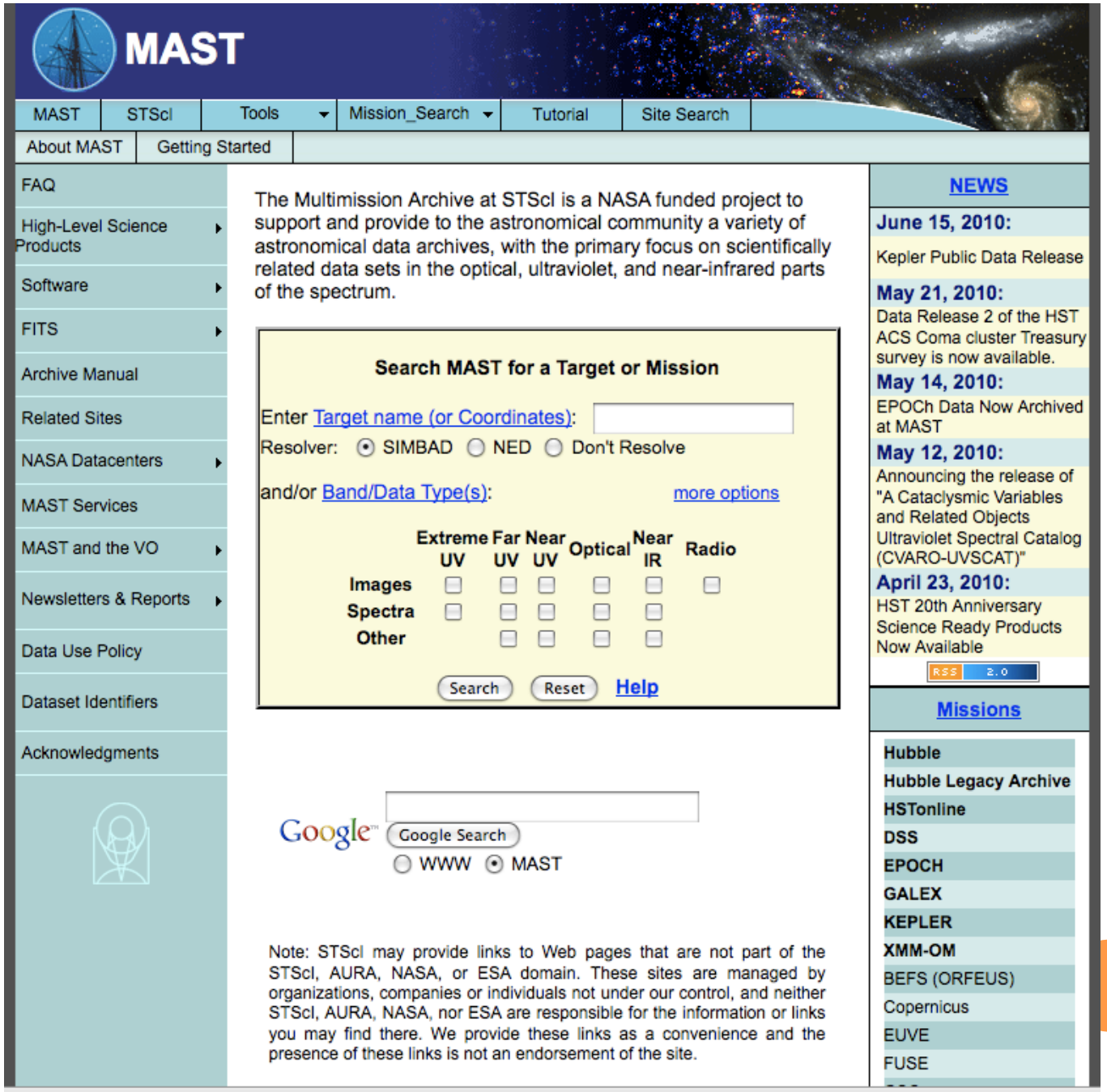
- Modern time-series data sets are served in two formats:
  - ASCII
    - Pros:
      - (relatively) Easy to apply multiple tools
        - IDL, excel, mathematica, other plotting utilities
      - Precision tailored to data set
      - Easier to directly investigate data values with simple file viewers
    - Cons:
      - Lack of standardized formatting
        - e.g. tab vs. space vs. comma vs. fixed width, etc.
      - Lack of standardized headers
        - e.g. NStED IPAC ASCII keywords and formatting
      - Larger file sizes

Kepler

- MAST is the official archive for Kepler:
  - Multimission Archive at STScI
  - http://archive.stsci.edu
  - Serves FITS light curves

- NStED also serves Kepler data:
  - NASA/IPAC/NExScI Star and Exoplanet Database
  - http://nsted.ipac.caltech.edu
  - Serves FITS and ASCII light curves
  - Value added statistics and periodogram tool

MAST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June 15, 2010:
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May 21, 2010:
Data Release 2 of the HST ACS Coma cluster Treasury survey is now available.
May 14, 2010:
EPOCh Data Now Archived at MAST
May 12, 2010:
Announcing the release of "A Cataclysmic Variables and Related Objects Ultraviolet Spectral Catalog (CVARO-UVSCAT)"
April 23, 2010:
HST 20th Anniversary Science Ready Products Now Available
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Hubble Legacy Archive
HSTonline
DSS
EPOCH
GALEX
KEPLER
XMM-OM
BEFS (ORFEUS)
Copernicus
EUVE
FUSE

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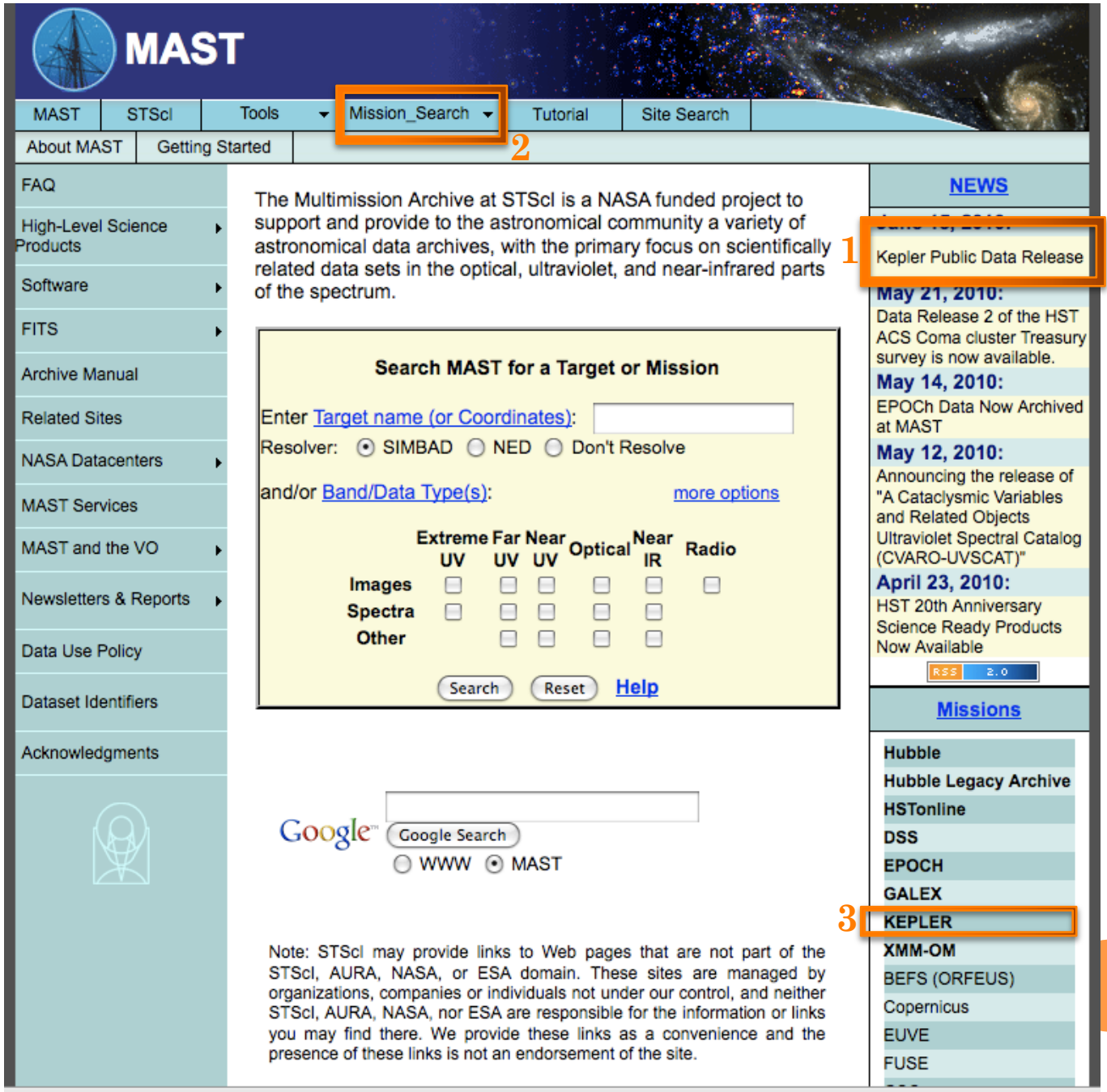
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Tools
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Getting Started
2
FAQ
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and/or Band/Data Type(s):
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3
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Kepler
MAST
STScI
Tools
Mission_Search
Tutorial
Site Search
Kepler Home
About Kepler
Getting Started
Registration
Kepler Data Search
Kepler Target Search
FFI Search
Data Search
FAQ
GO Program
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Data Reduction & Analysis
Documentation
Related Sites
Images
Publications/News
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http://archive.stsci.edu/kepler/
Latest News
Q4 light curve data expected to be available the end of July.
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General Search Information - Information on search syntax.
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Pipeline Processing Papers - Three SPIE papers presented at the Software and Cyberinfrastructure for Astronomy Conference (27-30 June 2010) describe the main components of the Kepler data processing system.
List of "False Positives" - A list of light curves showing planetary transit-like features, but which further analysis led the science team to conclude that something else caused the feature.
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Kepler, a NASA Strategic mission launched into an Earth-trailing heliocentric orbit on March 6, 2009, is designed to stare at a 105 square degree region of the sky in the constellations of Cygnus and Lyra. The mission's goal is to obtain long-term, unfiltered, and precise light curves of up to 100,000 cool stars and search for periodic transits of planets as small as the Earth. A secondary objective of the mission is to study rapid
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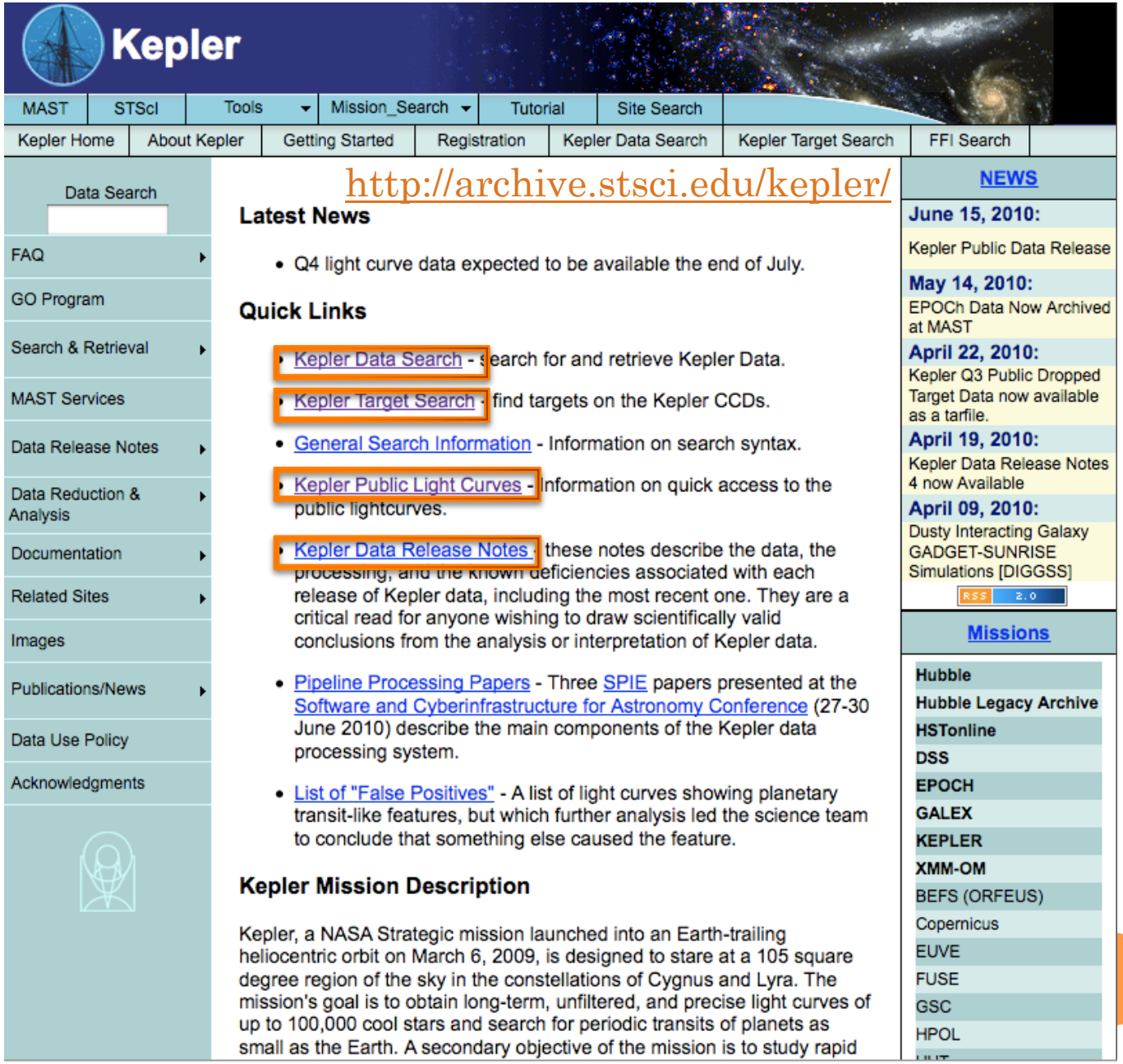
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About Kepler
Getting Started
Registration
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Data Search
FAQ
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Search & Retrieval
MAST Services
Data Release Notes
Data Reduction & Analysis
Documentation
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Images
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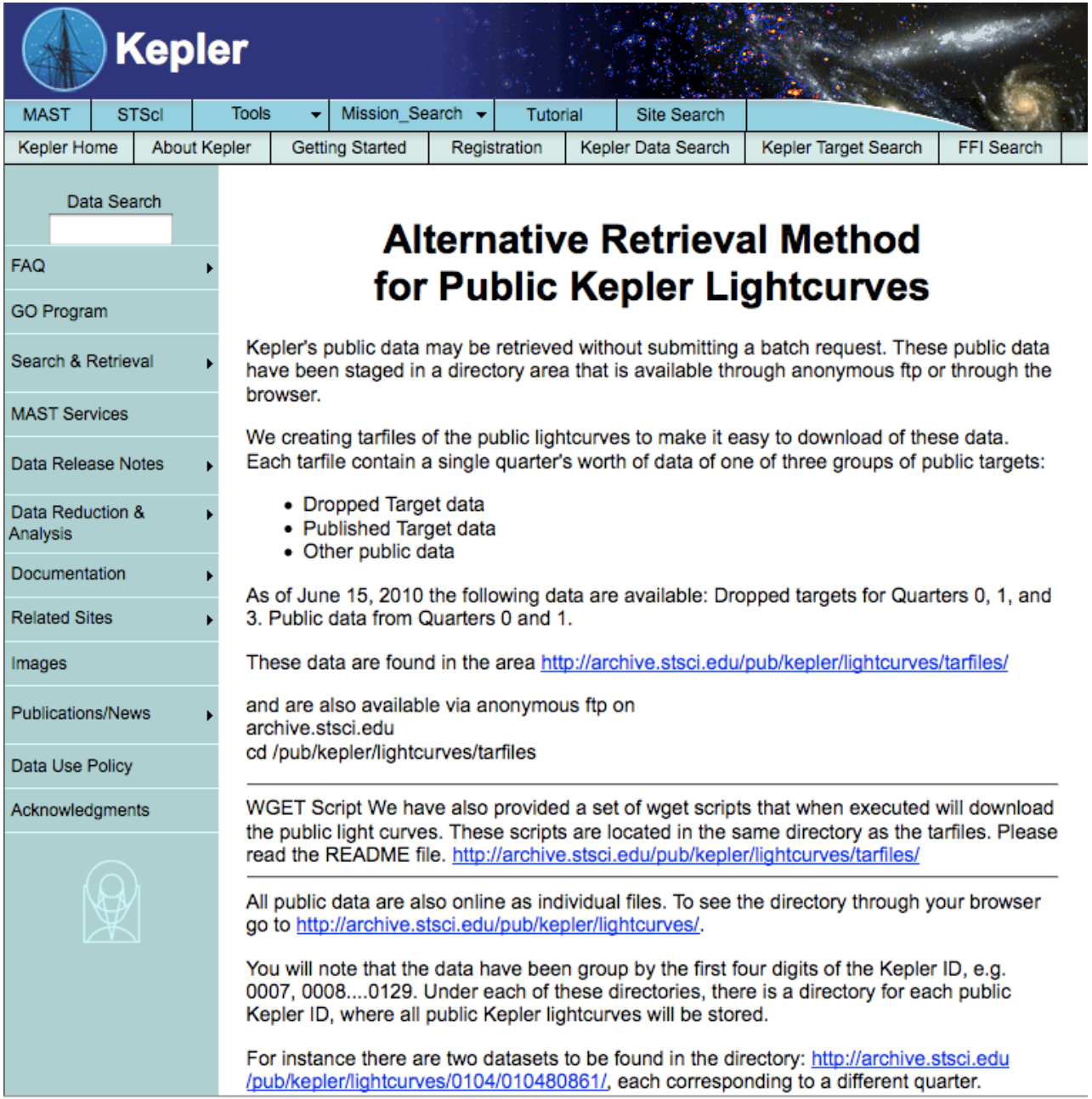
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Getting Started
Registration
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FAQ
GO Program
Search & Retrieval
MAST Services
Data Release Notes
Data Reduction & Analysis
Documentation
Related Sites
Images
Publications/News
Data Use Policy
Acknowledgments
Alternative Retrieval Method for Public Kepler Lightcurves
Kepler's public data may be retrieved without submitting a batch request. These public data have been staged in a directory area that is available through anonymous ftp or through the browser.
We creating tarfiles of the public lightcurves to make it easy to download of these data. Each tarfile contain a single quarter's worth of data of one of three groups of public targets:
Dropped Target data
Published Target data
Other public data
As of June 15, 2010 the following data are available: Dropped targets for Quarters 0, 1, and 3. Public data from Quarters 0 and 1.
These data are found in the area http://archive.stsci.edu/pub/kepler/lightcurves/tarfiles/
and are also available via anonymous ftp on
archive.stsci.edu
cd /pub/kepler/lightcurves/tarfiles
WGET Script We have also provided a set of wget scripts that when executed will download the public light curves. These scripts are located in the same directory as the tarfiles. Please read the README file. http://archive.stsci.edu/pub/kepler/lightcurves/tarfiles/
All public data are also online as individual files. To see the directory through your browser go to http://archive.stsci.edu/pub/kepler/lightcurves/.
You will note that the data have been group by the first four digits of the Kepler ID, e.g. 0007, 0008....0129. Under each of these directories, there is a directory for each public Kepler ID, where all public Kepler lightcurves will be stored.
For instance there are two datasets to be found in the directory: http://archive.stsci.edu /pub/kepler/lightcurves/0104/010480861/, each corresponding to a different quarter.

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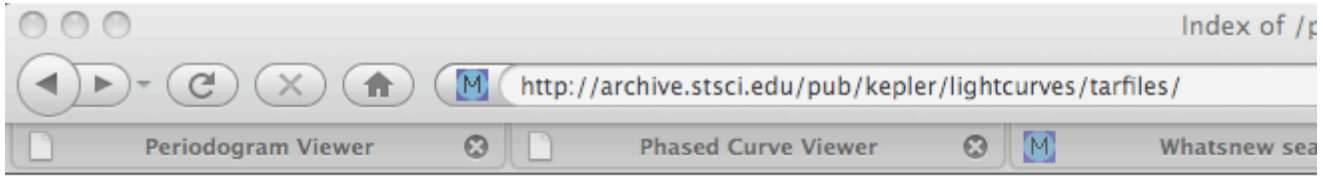

Index of /pub/kepler/lightcurves/tarfiles

Name	Last modified	Size	Description
Parent Directory		-	
README	17-Jun-2010 13:32	1.8K	
dropped targets Q0Q1.tgz	14-Jun-2010 09:24	221M	
dropped targets Q2.wget script	16-Jun-2010 08:47	969K	
dropped targets Q3.tar.gz	22-Apr-2010 11:35	1.0G	
dropped targets Q3.wget script	16-Jun-2010 08:44	863K	
keplerpublic 15jun2010.wget script	15-Jun-2010 17:35	34M	
public Q0.tgz	14-Jun-2010 20:31	1.2G	
public Q0.wget script	16-Jun-2010 08:42	8.3M	
public Q1.tgz	14-Jun-2010 23:47	11G	
public Q1.wget script	16-Jun-2010 08:43	24M	

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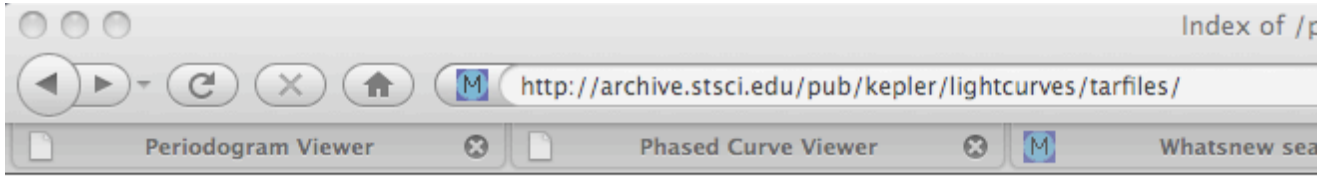

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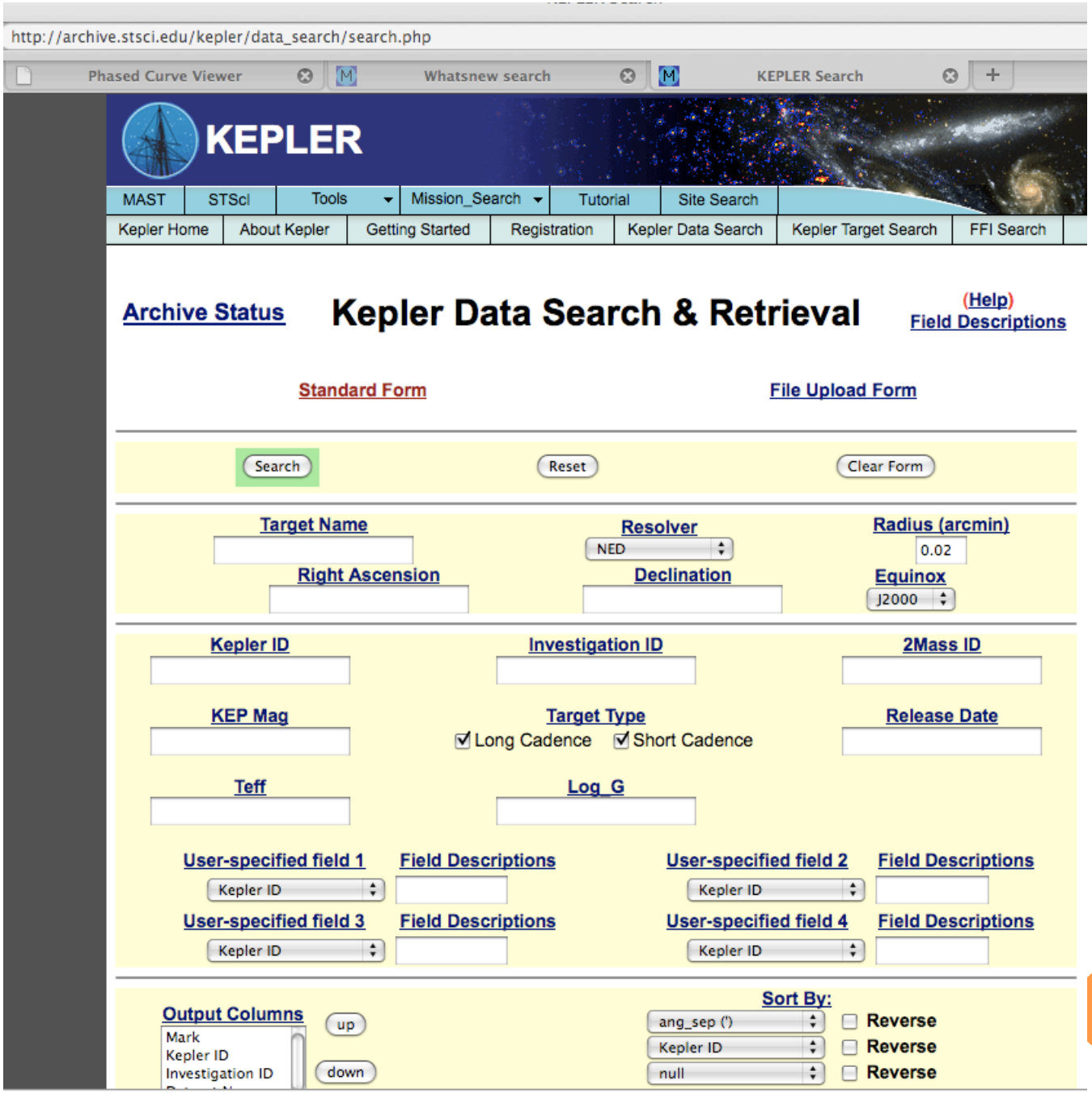
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Phased Curve Viewer
Whatsnew search
KEPLER Search
KEPLER
MAST
STScI
Tools
Mission_Search
Tutorial
Site Search
Kepler Home
About Kepler
Getting Started
Registration
Kepler Data Search
Kepler Target Search
FFI Search
Archive Status
Kepler Data Search & Retrieval
(Help)
Field Descriptions
Standard Form
File Upload Form
Search
Reset
Clear Form
Target Name
Resolver
NED
Radius (arcmin)
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Kepler ID
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2Mass ID
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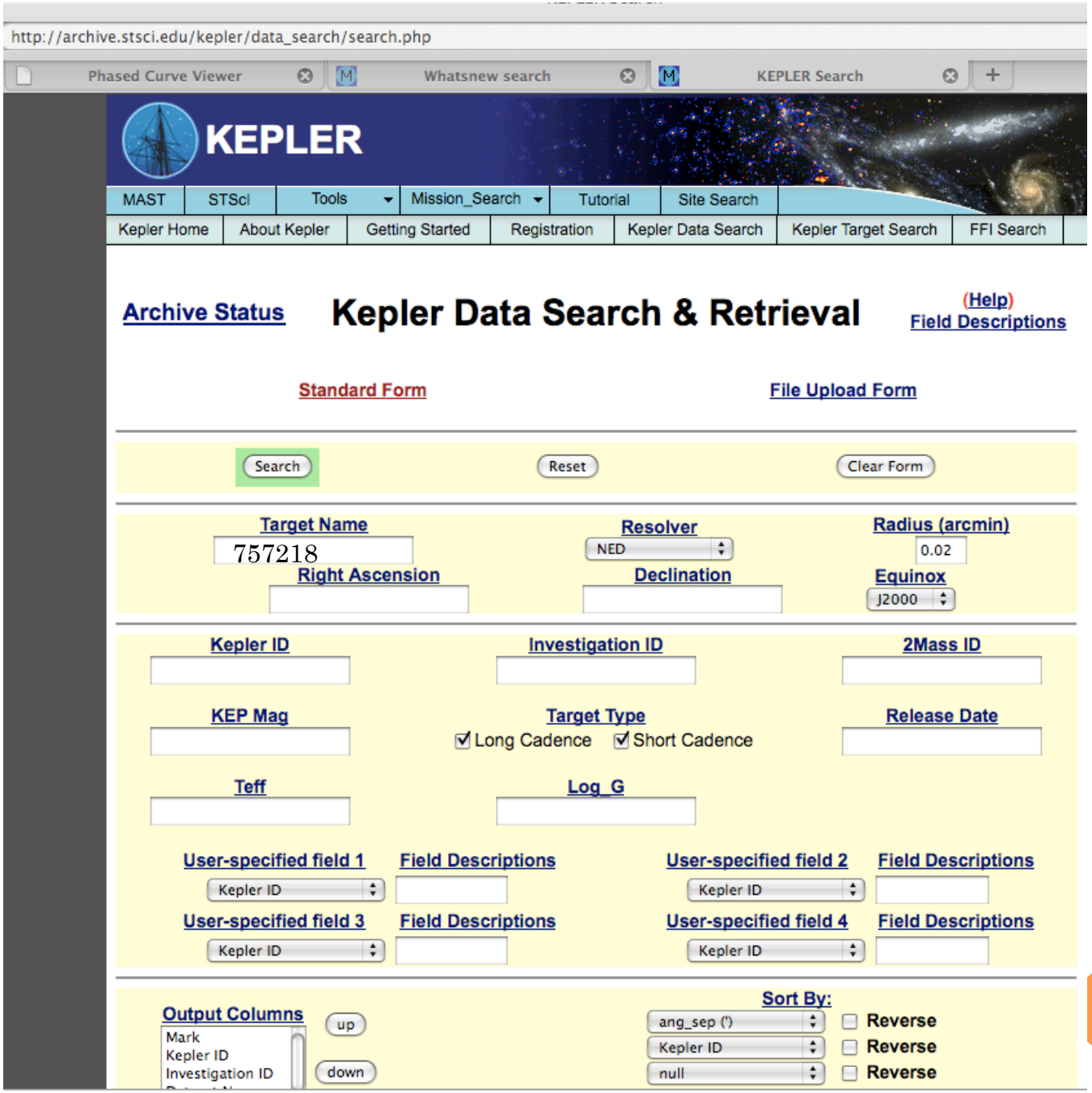
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Phased Curve Viewer
Whatsnew search
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KEPLER
MAST
STScI
Tools
Mission_Search
Tutorial
Site Search
Kepler Home
About Kepler
Getting Started
Registration
Kepler Data Search
Kepler Target Search
FFI Search
Archive Status
Kepler Data Search & Retrieval
(Help)
Field Descriptions
Standard Form
File Upload Form
Search
Reset
Clear Form
Target Name
757218
Resolver
NED
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Right Ascension
Declination
Equinox
J2000
Kepler ID
Investigation ID
2Mass ID
KEP Mag
Target Type
Long Cadence
Short Cadence
Release Date
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User-specified field 1
Field Descriptions
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User-specified field 2
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Columns Hel

Kepler Data Search Results

Edit Query

7/26/10 Peter Plavchan

Display numeric columns graphically using VOPlot

number of rows returned = 1

Click on top column headers to sort the table on the column contents.
Click on bottom column headers for more information about the data in that column.

Plot marked Light Curves | Submit marked data for retrieval from STDADS

Mark all | Unmark all | Mark public | Unmark public | Mark proprietary | Unmark proprietary

Mark	Kepler ID	Investigation ID	Dataset Name	Quarter	RA (J2000)	Dec (J2000)	Target Type	Actual Start Time	Actual End Time	
☐	757218	EX	KPLR000757218-2009131105131	0	19 24 19.34	+36 35 39.4	LC	2009-05-02 00:54:56	2009-05-11 17:51:31	200
Mark	Kepler ID	Investigation ID	Dataset Name	Quarter	RA (J2000)	Dec (J2000)	Target Type	Actual Start Time	Actual End Time	

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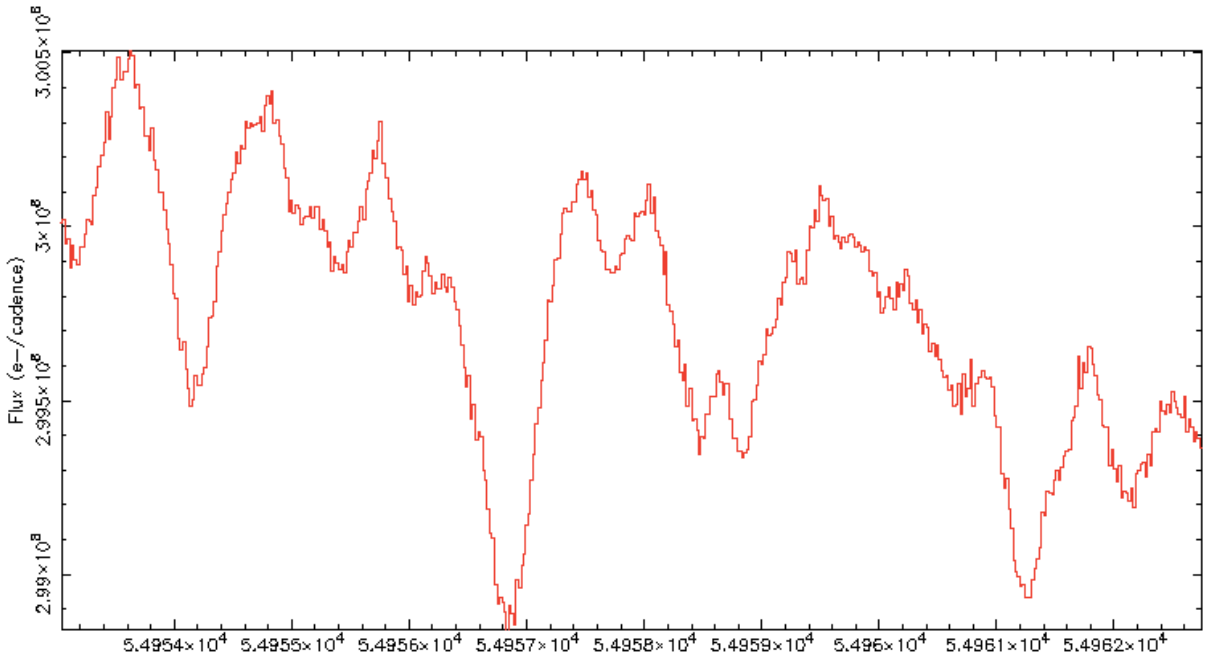
Number of plotted points: 472
Time range (Days): 54953.0 to 54962.7 Flux range (e-/cadence): 2.988e+08 to 3.005e+08

Select Plot range (or click to autoscale ☐):
Min Time: 5.4953e+04 Max Time: 5.4963e+04 Min Flux: 2.988e+08 Max Flux: 3.005e+08
Plot dimensions (850x640 max):
X size (pixels)= 800 Y size (pixels)= 450 Redraw Plot Help

Scale Factors:
kplr000757218-2009131105131: 1



MAST

Please note that **Target Pixel Data** and **Focal Plane Characterization Files** are not currently available, but will be in the near future.

NEW Important Downtime Message NEW

1 dataset (1 public, 0 proprietary) marked.

Archive Username

Archive Password

Delivery options

Destination (if y

- FTP: FTP the data to the destination shown
  - Use sftp (OpenSSH v2)
- STAGE: Put the data onto the Archive staging disk*
- DVD: Send the data to me on DVD.
- CD: Send the data to me on CD-R.

Hostname

Directory

Username

Password

Compress the files using gzip.

***Current staging disk capacity: 33% full (1299 gigabytes available).**

- Light Curves
- Light Curves and Target Pixel Data
- Light Curves, Target Pixel Data and Focal Plane Characterization Files

Send retrieval request to ST-DADS | Reset form to default values

To override the above defaults:

To select specific file extensions, use the input fields below.

File Extensions Requested

SLC
TAD
TAR
TGTS-DROPPED
TSC
UNDERSHOOT

or enter a specific extension:

NStED


NStED
NASA/IPAC/NExScI Star and Exoplanet Database
Home | Overview | Holdings | Helpdesk
NStED Services:
Search NStED for an Individual Star:
Search for Star
Examples: HD 105, HIP 171, HIP 3765
Allowed object/catalog identifiers
Search NStED by
Stellar Parameters
Planet Parameters
Return all Stars with Planets
Return all Planets
Transit Ephemeris Service
Kepler Survey
Kepler
Kepler Target Selection
Kepler Public Data
CoRoT Survey
Astero-Seismology
CoRoT
Search CoRoT Survey Data

NStED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Transit Ephemeris Service
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Kepler
Kepler Target Selection
Kepler Public Data
CoRoT Survey
Astero-Seismology
CoRoT
Search CoRoT Survey Data

NStED: Exo-Planet Transit Survey Kepler Search

NStED provides access to the public Kepler light curves as they are released to the community. The primary mission archive to all Kepler data is provided by MAST at STScI . In addition to the public light curves, NStED also serves a Target Selection Catalog which can be used to explore potential targets within the Kepler field.

We recommend the Firefox, Safari or Chrome browsers. IE users may see intermittent query failures, which can be resolved by resubmitting the query.

Retrieve Star Light Curve by ID

Clear text field

Star ID	
	View

Search for Star Light Curves by Constraint

Clear All Fields | Output All | Output None | Submit | Reset All Forms to Default

Target Type Constraints

Select all Select none

Target Type	
☑ Short Cadence	☑ Long Cadence

Positional Constraints

Select all Select none Clear text fields

Column Description	Min Value	Max Value	Equinox	Output	Include Stars with No Value
Right Ascension (decimal degrees or sexagesimal)			J2000	☑	☐
Declination (decimal degrees or sexagesimal)			J2000	☑	☐

Photometric Constraints

Select all Select none Clear text fields

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757218	View

Search for Star Light Curves by Constraint

Clear All Fields | Output All | Output None | Submit | Reset All Forms to Default

Target Type Constraints

Select all Select none

Target Type	
☑ Short Cadence	☑ Long Cadence

Positional Constraints

Select all Select none Clear text fields

Column Description	Min Value	Max Value	Equinox	Output	Include Stars with No Value
Right Ascension (decimal degrees or sexagesimal)	0	360	J2000	☑	☐
Declination (decimal degrees or sexagesimal)			J2000	☑	☐

Photometric Constraints

Select all Select none Clear text fields

7/26/10 Peter Plavchan

GRed magnitude			magnitude	☑	☐
D51 magnitude			magnitude	☑	☐
J magnitude			magnitude	☑	☐
H magnitude			magnitude	☑	☐
Ks magnitude			magnitude	☑	☐
Kepler magnitude	16		magnitude	☑	☐

Time Constraints

Select all Select none Clear text fields

Column Description	Min Value	Max Value	Unit	Output	Include Stars with No Value
Start Date Coverage (modified Julian date)			days	☑	☐
End Date Coverage (modified Julian date)			days	☑	☐

Light Curve Constraints

Select all Select none Clear text fields

Column Description	Min Value	Max Value	Unit	Output	Include Stars with No Value
Number of points in light curve				☑	☐
Mean of light curve			electrons/cadence	☑	☐
1 Sigma rms dispersion of light curve			electrons/cadence	☑	☐
Chisquared about the median light curve value				☑	☐
Number of points in light curve beyond 5-sigma of median value				☑	☐
Fraction of points in light curve beyond 5-sigma of median value				☑	☐

Stellar Property Constraints

Select all Select none Clear text fields

Column Description	Min Value	Max Value	Unit	Output	Include Stars with No Value
E(B-V)			magnitude	☑	☐
g-r Color			magnitude	☑	☐

NSTED

NSTED NASA/IPAC/NExScI Star and Exoplanet Database

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Result Table (6 Time Series)

Download all results: IPAC ASCII format table Download all light curves: Download scripts

Note:

- Click a column name to display the parameter help file if it is available.
- 1000 is the maximum number of rows to be displayed.

⏮ ◀ 1 to 6 ▶ ⏭

Cntr	Star ID	Target Type	RA J2000	Dec J2000	Start Time	End Time	g mag	r mag	i
			h m s	° ' "	*day*	*day*	*mag*	*mag*	*n*
1	6117602 (Plot Time Series) (Compute Periodogram)	long cadence	19h 19m 41.07s	41d 27m 48.79s	54964.511796	54997.983275	17.179	16.069	15
2	2437452 (Plot Time Series) (Compute Periodogram)	long cadence	19h 20m 54.28s	37d 45m 34.70s	54964.511952	54997.983555	17.610	16.943	16
3	2297729 (Plot Time Series) (Compute Periodogram)	long cadence	19h 21m 00.47s	37d 38m 22.52s	54964.511956	54997.983564	17.309	16.282	15
4	8496834 (Plot Time Series) (Compute Periodogram)	long cadence	19h 29m 54.63s	44d 35m 27.53s	54964.511457	54997.982905	17.282	16.435	16
5	9838975 (Plot Time Series) (Compute Periodogram)	long cadence	19h 40m 08.05s	46d 36m 00.54s	54964.511200	54997.982644	16.825	16.103	15
6	9033543 (Plot Time Series) (Compute Periodogram)	long cadence	19h 43m 07.30s	45d 18m 09.79s	54964.511215	54997.982725	17.588	16.318	15

NSTED

Result Table (6 Time Series)

Download all results IPAC ASCII format table Download all light curves: Download scripts

Note:

- Click a column name to display the parameter help file if it is available.
- 1000 is the maximum number of rows to be displayed.

⏮ ◂ 1 to 6 ▸ ⏭

Cntr	Star ID	Target Type	RA J2000	Dec J2000	Start Time	End Time	g mag	r mag	i
			h m s	*° ' "*	*day*	*day*	*mag*	*mag*	*n*
1	611760[illegible] (Plot Time Series) (Compute Periodogram)	long cadence	19h 19m 41.07s	41d 27m 48.79s	54964.511796	54997.983275	17.179	16.069	15
2	2437452 (Plot Time Series) (Compute Periodogram)	long cadence	19h 20m 54.28s	37d 45m 34.70s	54964.511952	54997.983555	17.610	16.943	16
3	2297729 (Plot Time Series) (Compute Periodogram)	long cadence	19h 21m 00.47s	37d 38m 22.52s	54964.511956	54997.983564	17.309	16.282	15
4	8496834 (Plot Time Series) (Compute Periodogram)	long cadence	19h 29m 54.63s	44d 35m 27.53s	54964.511457	54997.982905	17.282	16.435	16
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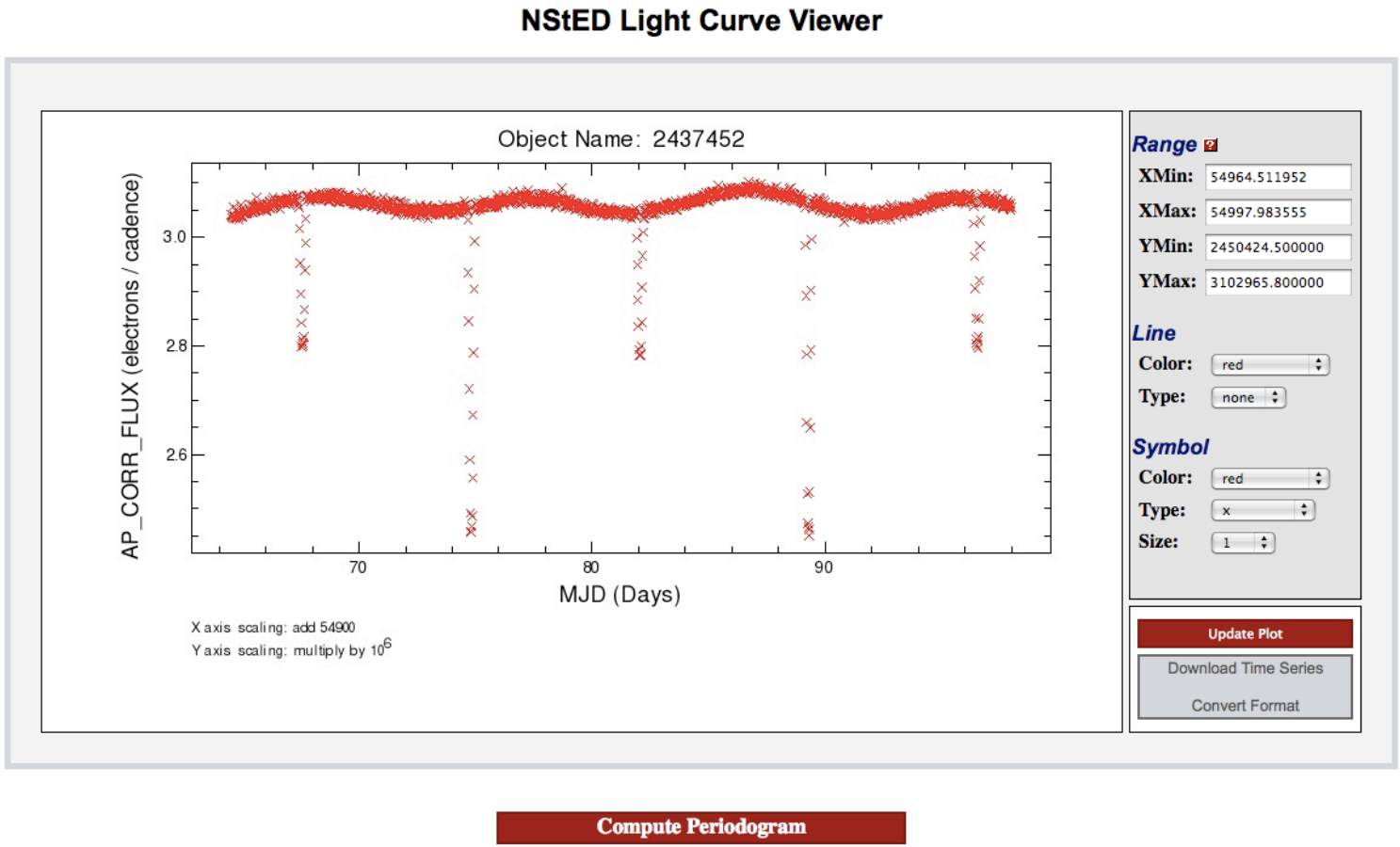
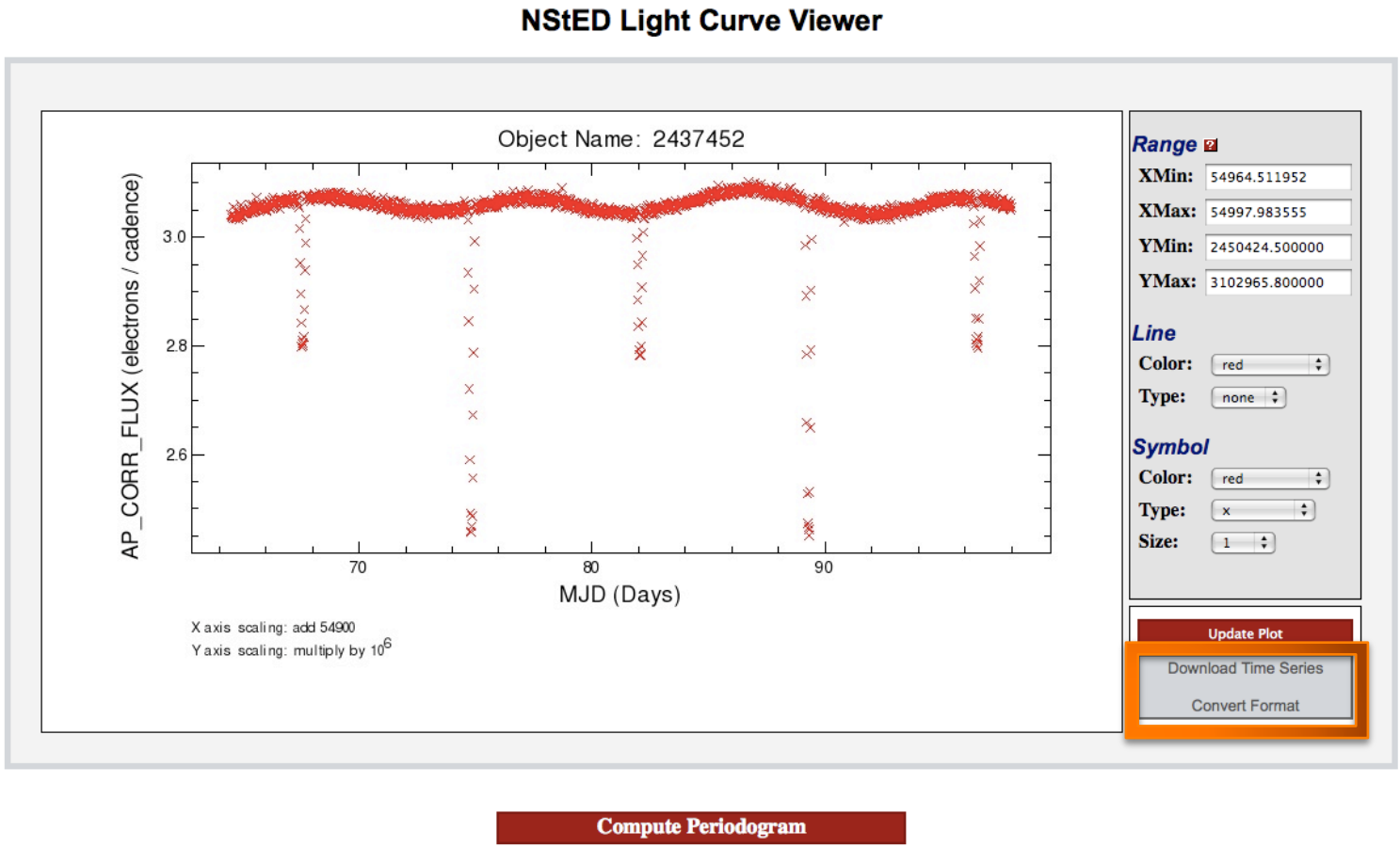
NStED


NStED Light Curve Viewer
Object Name: 2437452
AP_CORR_FLUX (electrons / cadence)
3.0
2.8
2.6
70
80
90
MJD (Days)
X axis scaling: add 54900
Y axis scaling: multiply by 10^6
Range
XMin: 54964.511952
XMax: 54997.983555
YMin: 2450424.500000
YMax: 3102965.800000
Line
Color: red
Type: none
Symbol
Color: red
Type: x
Size: 1
Update Plot
Download Time Series
Convert Format
Compute Periodogram

NStED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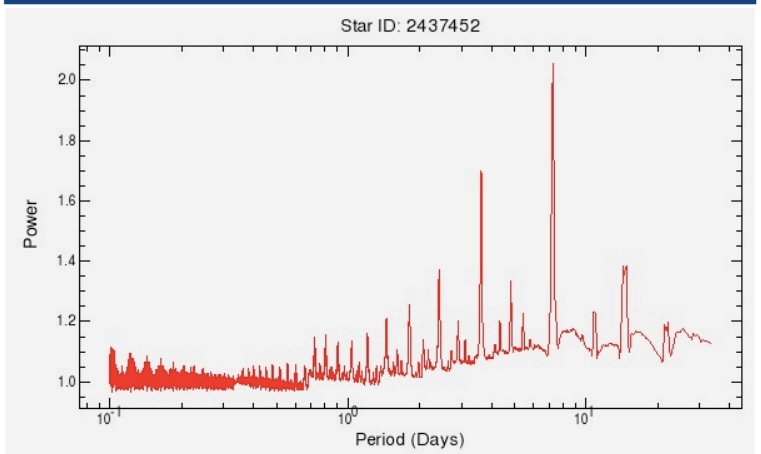
Line
Color: red
Type: none
Symbol
Color: red
Type: x
Size: 1
Update Plot
Download Time Series
Convert Format
Compute Periodogram

NStED Periodogram Service

Power Spectrum



Download Periodogram (ASCII)

Rank	Period	Power	P-value	Link
1	7.256932	2.057650	0	Phased curve
2	1.206454	1.159885	0.435808	Phased curve
3	0.803851	1.155617	0.592641	Phased curve

Input (Submit)		Current Values (Reset)
Periodogram type	○ Lomb-Scargle ○ BLS ◉ Plavchan	Plavchan
Input file	**kplr002437452-2009166043257_llc_lc.tbl** *Number of points: 1639*	View Time Series
Time column	MJD *Min: 54964.5120, Max: 54997.9836*	MJD
Data column	AP_CORR_FLUX *Min: 2450424.5000, Max: 3102965.8000*	AP_CORR_FLUX
Constraint column	None	none

Adjustable Periodogram Parameters

The estimated time for processing is 15s

Period Sampling

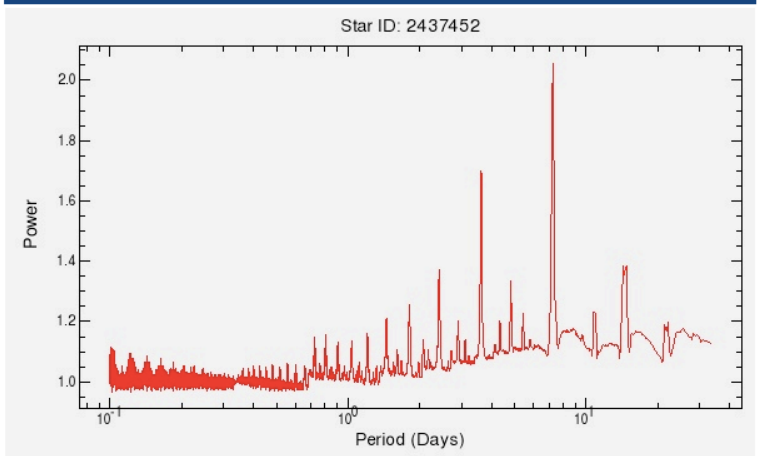
Period range	Min	0.100000	0.100000
	Max	33.471603	33.471603
Period step method	Fixed df		FixedDf
Fixed step size	0.00061320		0.00061320

Algorithm Settings

Number of outliers	500	500
Phase-smoothing box size	0.060	0.060

NStED Periodogram Service

Power Spectrum



Download Periodogram (ASCII)

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CoRoT

- NStED is the official US portal for CoRoT data:
  - http://nsted.ipac.caltech.edu
  - Serves FITS light curves (ASCII coming soon)
- IAS Data and Operations Center:
  - Binary FITS table
  - http://idoc-corotn2-public.ias.u-psud.fr/index.jsp
- CoRoT archive at LAEFF:
  - Binary FITS table & ASCII
  - http://sdc.laeff.inta.es/corotfa/jsp/frontpage.jsp

CoRoT has two channels:

Asteroseismology (~10 targets/run) & Exoplanet (~10k targets/run)

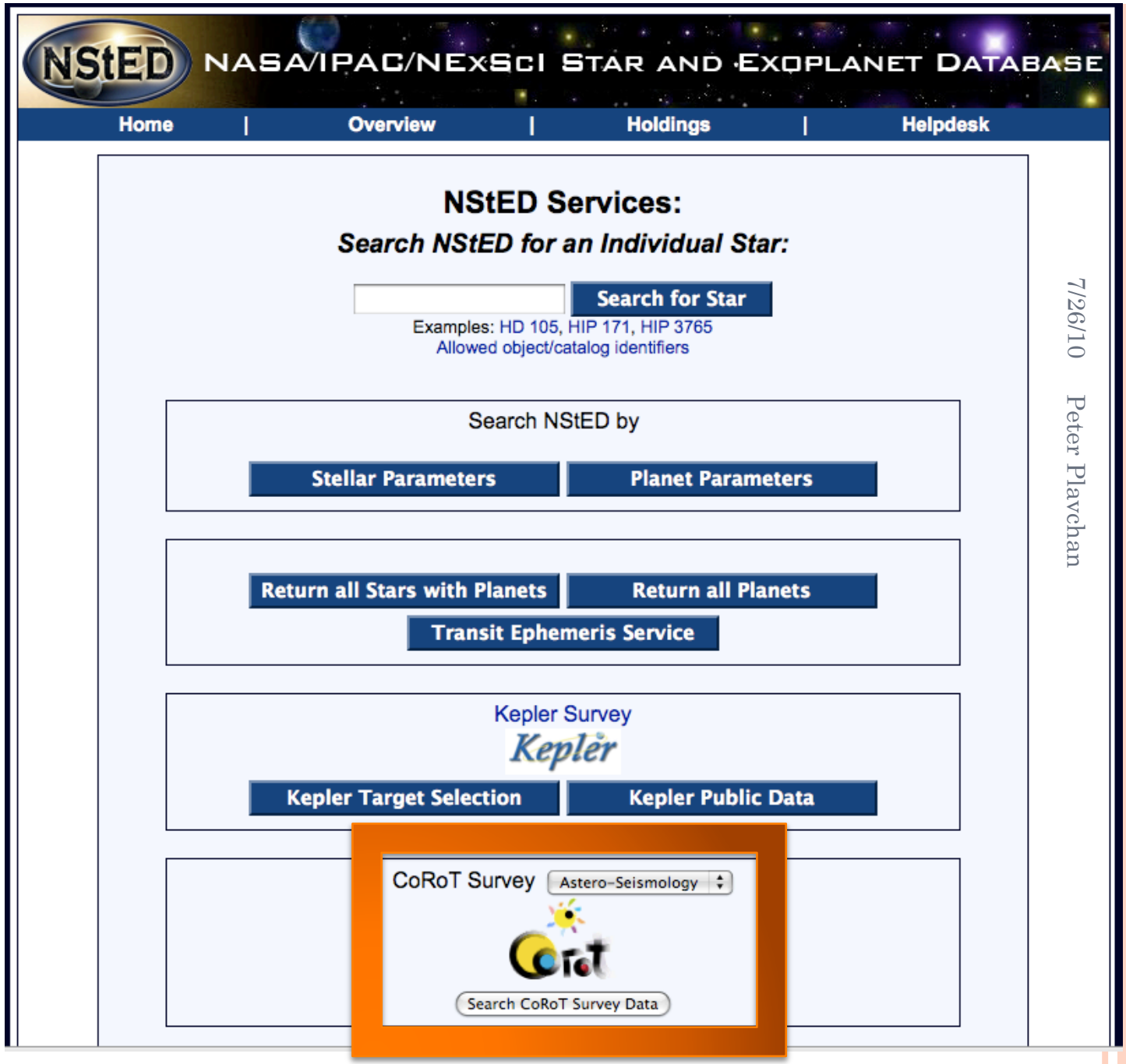
Exoplanet light curves have two categories:

CHRomatic & MONochromatic, in separate binary FITS table files

Asteroseismology light curves come in three flavors:

RAW, HELiocentric, & HELiocentric with REGularized time-sampling, all in one binary FITS file with 3 table extensions

NStED


NStED
NASA/IPAC/NExScI Star and Exoplanet Database
Home | Overview | Holdings | Helpdesk
NStED Services:
Search NStED for an Individual Star:
Search for Star
Examples: HD 105, HIP 171, HIP 3765
Allowed object/catalog identifiers
Search NStED by
Stellar Parameters
Planet Parameters
Return all Stars with Planets
Return all Planets
Transit Ephemeris Service
Kepler Survey
Kepler
Kepler Target Selection
Kepler Public Data
CoRoT Survey
Astero-Seismology
CoRoT
Search CoRoT Survey Data

Retrieve Star Light Curve by Name

IRa01	HD 50846 HD 50773	HD 50747 HD 50844	HD 50405 HD 51106	HD 49933 HD 50170	HD 292790 HD 50890
SRc01	HD 180642 HD 180973	HD 181072 HD 181231	HD 181420 HD 181440	HD 181555 HD 181906	HD 181907 HD 182198
LRc01	HD 174884 HD 175542	HD 174936 HD 175543	HD 174966 HD 175679	HD 174987 HD 175726	HD 175272 HD 175869

Retrieve Star Light Curve by CoRoT ID

Clear text field

CoRoT ID	
102693924	View

Search for Star Light Curves by Constraint

Clear All Fields | Output All | Output None | Submit | Reset All Forms to Default

Run Constraints

Select all Select none

Center Fields		*Anti-Center Fields*
☑ LRc01	☑ SRc01	☑ IRa01

Positional Constraints

Select all Select none Clear text fields

Column Description	*Min Value*	*Max Value*	*Equinox*	*Output*	*Include Stars with No Value*
Right Ascension (decimal degrees or sexagesimal)			J2000	☑	☐
Declination (decimal degrees or sexagesimal)			J2000	☑	☐

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NStED Light Curve Viewer

Object Name: 102693924

Object Characteristics

CoRoT ID:	*102693924*
Channel:	*Exoplanet (Monochromatic)*
Run:	*IRa01*
Telescope:	*COROT*
CCD Half:	*E1L*
RA:	*06h 43m 31.20s*
Dec:	*-00d 40m 24.89s*
Contamination Factor:	*0.131313*
Color Temperature:	*4840.00*
Spectral Type:	*G4*
Luminosity Class:	*V*

Photometry

Filter	Apparent Magnitude
B	17.2080
V	16.2880
R	15.8890
I	15.3700

Light Curve Characteristics

Start HJD:	*2007-02-03T13:05:53.000*
End HJD:	*2007-04-02T07:01:58*
Exposure Time:	*512*
Mean White Flux:	*20320.1*
RMS White Flux:	*283.905*
Number of hot pixels:	*0*

Downloads

Current Time Series file:	FITS Data (This is an ftp location, Right-Click and Save-As)
IRa01 summary:	IPAC ASCII format table
IRa01 light curves:	Download scripts

Note on Plots

CoRoT dates are relative to Jan 1st, 2000 12:00:00 PM (JD = 2451545.0). See the documentation for more details.

Direct link to periodogram for CoRoT data coming soon…

CoRoT Archive — IAS Data & Operation Center

CoRoT N2 Public Archive

BACK TO HOME

- DOCUMENTATION
- NEWS ARCHIVE
- COMPLETE RUN DOWNLOAD

- N2 - EXOPLANET DATA
- N2 - ASTEROSEISMOLOGY DATA
- N2 - Exoplanet Data - Former versions

- N3 PRODUCTS
- LINKS

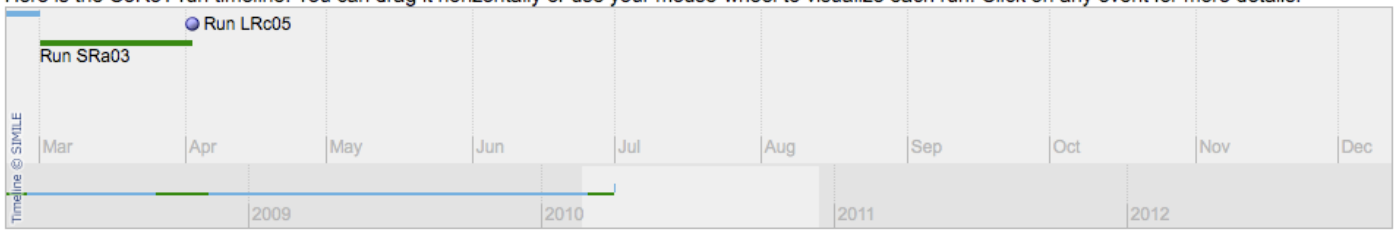
Julian Corot Day to UTC converter

Convert

There are two ways to retrieve the data:

- **detailed search in the database: the links on the left part of this page will lead you to the different datasearch interfaces for the two channels of the instrument: Asteroseismology and Exoplanet search.**
- **simple download of a whole set of data for a given run (last version available): by the COMPLETE RUN DOWNLOAD link.**

Here is the CoRoT run timeline. You can drag it horizontally or use your mouse-wheel to visualize each run. Click on any event for more details.



CoRoT N2 Public Archive News

RSS subscribe (How to)

News 15 : the complete run download page is now up to date with the last available versions of each run.
July 13th, 2010

News 14 : a new version (2.1) of exo data of the run SRc01 has been released. The former versions are still available through the link "N2 - Exoplanet Data - Former versions".
July 12th, 2010

News 13 : release of the astero channel data set for the run LRc02 (version 1.8).
July 05th, 2010

Some documentation is also available through the link on the left.

The site is optimized for Mozilla Firefox browser. You can download it here : www.mozilla.com

CoRoT Archive — IAS Data & Operation Center

CoRoT N2 Public Archive

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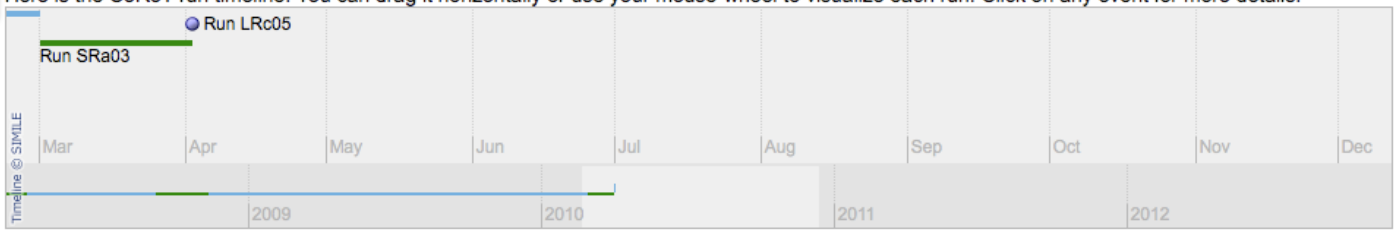

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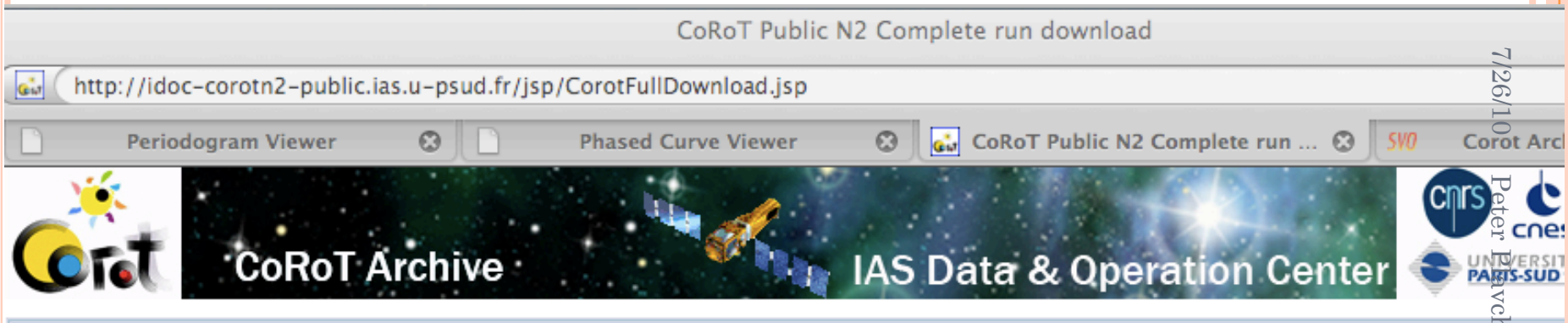
CoRoT - IAS



You can retrieve the N2 data by downloading a whole set for a given run (last version available) :

Type	Run IRa01	Run LRc01	Run SRc01	Run LRa01	Run SRa01	Run LRc02	Run SRa02
Light curves of the Astero channel (**AN2_STAR**)	**here** (94MB)	**here** (251MB)	**here** (44MB)	**here** (217MB)	**here** (41MB)	**here** (240MB)	**here** (56MB)
Monochromatic light curves of the Exo channel (**EN2_STAR_MON**)	**here** (1,5GB)	**here** (6,0GB)	**here** (693MB)	**here** (3,1GB)	**here** (596MB)	**here** (5,5GB)	**here** (1,1GB)
Chromatic light curves of the Exo channel (**EN2_STAR_CHR**)	**here** (5,9GB)	**here** (16GB)	**here** (1,6GB)	**here** (18GB)	**here** (2,3GB)	**here** (16GB)	**here** (3,3GB)
EN2_WINDESCRIPTOR files of the Exo channel	**here** (40MB)	**here** (46MB)	**here** (28MB)	**here** (46MB)	**here** (33MB)	**here** (45MB)	**here** (42MB)

Corot Exoplanet Public N2 data

Available products

Search

Chromatic light curves ☑ AND/OR Monochromatic light curves ☑

Oversampled light curves (32s) ☑ AND/OR Regular sampling light curves (512s) ☑

Light curves from imagettes (32s) ☐ Windescriptor ☐

N2 context ☐

Observational informations

Search

Start date (DD-MM-YYYY) End date (DD-MM-YYYY)

Corot ID

Use semi-colon, comma or blank character as separators

All

Magnitude from (>=) Magnitude to (=<)

Right ascension from Right ascension to

Declination from Declination to

Magnitude difference (B-V) from Magnitude difference (B-V) to

Spectral type from

Spectral type to

Luminosity class

The spectral type contained in the headers is based on a SED or isochrone analysis of multi-colour broad-band photometry. It should be taken and used with care, especially for faint stars and concerning luminosity classes.

For more information please read Deleuil et al. and if needed please contact Claire Moutou.

Long Run(and initial Run) ☑ Center ☑

Short run ☑ Anticenter ☑

Run

Selection based on the class of variability of the star

Search

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Corot Exoplanet Public N2 data

Available products

Search

Chromatic light curves	☑	AND/OR	Monochromatic light curves	☑
Oversampled light curves (32s)	☑	AND/OR	Regular sampling light curves (512s)	☑
Light curves from imagettes (32s)	☐		Windescriptor	☐
N2 context	☐			

Observational informations

Search

Start date (DD-MM-YYYY)

End date (DD-MM-YYYY)

Corot ID

Use semi-colon, comma or blank character as separators

All

Magnitude from (>=)		Magnitude to (=<)	
Right ascension from		Right ascension to	
Declination from		Declination to	
Magnitude difference (B-V) from		Magnitude difference (B-V) to	

Spectral type from

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Long Run(and initial Run) ☑

Center ☑

Short run ☑

Anticenter ☑

Run

Selection based on the class of variability of the star

Search

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Search result

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List of datas in search result:
69489 data(s) in 1 dataset(s)

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Columns Choice
Download (Zip)

- **Dataset Corot Exoplanet Public N2 (69489 data(s))**

Select currently displayed datafiles | All | Select all data of this dataset Unselect all data of this dataset (69489 datas(s) for this dataset)

1 2 3 4 5 6 ▸ ▸▸
Page 1/695

File name	Start date	End date	Corot ID	Magnitude	Right ascension	Declination	Magnitude difference (B-V)
EN2_STAR_CHR_0105664870_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105664870	14.018	280.436	7.32662	1.623
EN2_STAR_MON_0105754134_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105754134	15.524	280.57	6.5863	1.674
EN2_STAR_MON_0105525628_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105525628	15.352	280.211	5.97483	1.638
EN2_STAR_MON_0105617112_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105617112	15.295	280.362	7.33506	0.665
EN2_STAR_CHR_0105276526_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105276526	12.553	279.861	6.76779	1.825
EN2_STAR_CHR_0105233073_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105233073	13.128	279.789	7.03947	1.942
EN2_STAR_CHR_0105294638_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105294638	13.838	279.887	7.09702	1.92
EN2_STAR_CHR_0105351557_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105351557	13.412	279.968	7.6442	1.848
EN2_STAR_CHR_0105369434_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105369434	13.493	279.993	6.6244	2.04
EN2_STAR_CHR_0105851077_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105851077	13.667	280.712	6.475	2.184
EN2_STAR_CHR_0105872742_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105872742	14.406	280.747	7.17527	2.192
EN2_STAR_MON_0105637050_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105637050	15.803	280.394	6.23713	1.888
EN2_STAR_MON_0106019547_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	106019547	15.791	281.077	6.72749	2.047
EN2_STAR_CHR_0105514947_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105514947	13.8	280.196	6.51107	1.978

Search result

BACK TO CRITERIA

List of datas in search result:
69489 data(s) in 1 dataset(s)

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Download (Zip)

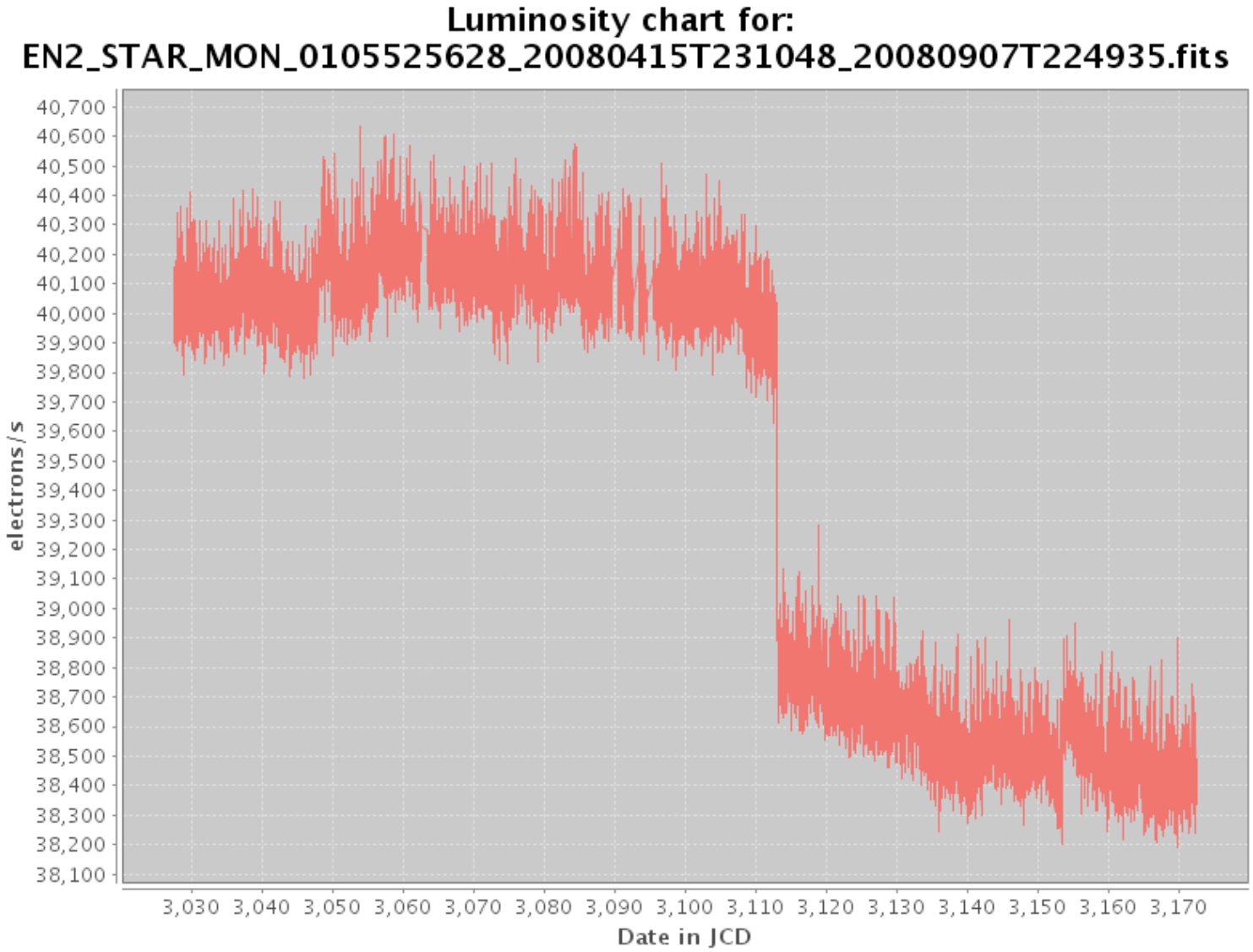
- **Dataset Corot Exoplanet Public N2 (69489 data(s))**

Select currently displayed datafiles | All | Select all data of this dataset Unselect all data of this dataset (69489 datas(s) for this dataset)

1 2 3 4 5 6 ▸ ▸▸
Page 1/695

File name	Start date	End date	Corot ID	Magnitude	Right ascension	Declination	Magnitude difference (B-V)
E2_STAR_CHR_0105664870_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105664870	14.018	280.436	7.32662	1.623
EN2_STAR_MON_0105754134_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105754134	15.524	280.57	6.5863	1.674
EN2_STAR_MON_0105525628_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105525628	15.352	280.211	5.97483	1.638
EN2_STAR_MON_0105617112_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105617112	15.295	280.362	7.33506	0.665
EN2_STAR_CHR_0105276526_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105276526	12.553	279.861	6.76779	1.825
EN2_STAR_CHR_0105233073_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105233073	13.128	279.789	7.03947	1.942
EN2_STAR_CHR_0105294638_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105294638	13.838	279.887	7.09702	1.92
EN2_STAR_CHR_0105351557_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105351557	13.412	279.968	7.6442	1.848
EN2_STAR_CHR_0105369434_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105369434	13.493	279.993	6.6244	2.04
EN2_STAR_CHR_0105851077_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105851077	13.667	280.712	6.475	2.184
EN2_STAR_CHR_0105872742_20080415T231048_20080907T225807.fits	15-04-2008	07-09-2008	105872742	14.406	280.747	7.17527	2.192
EN2_STAR_MON_0105637050_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105637050	15.803	280.394	6.23713	1.888
EN2_STAR_MON_0106019547_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	106019547	15.791	281.077	6.72749	2.047
EN2_STAR_CHR_0105514947_20080415T231048_20080907T224935.fits	15-04-2008	07-09-2008	105514947	13.8	280.196	6.51107	1.978

Light Chart


Luminosity chart for:
EN2_STAR_MON_0105525628_20080415T231048_20080907T224935.fits
electrons/s
40,700
40,600
40,500
40,400
40,300
40,200
40,100
40,000
39,900
39,800
39,700
39,600
39,500
39,400
39,300
39,200
39,100
39,000
38,900
38,800
38,700
38,600
38,500
38,400
38,300
38,200
38,100
3,030 3,040 3,050 3,060 3,070 3,080 3,090 3,100 3,110 3,120 3,130 3,140 3,150 3,160 3,170
Date in JCD

SiTools Error

An error has occured when invoking service

See Error Detail

javax.servlet.jsp.JspException: ServletException in '/jsp/common/include/footer.jsp': javax.servlet.jsp.JspException: No getter method for property hmiMessage of bean currentException javax.servlet.jsp.JspException: ServletException in '/jsp/common/include/footer.jsp': javax.servlet.jsp.JspException: No getter method for property hmiMessage of bean currentException at
org.apache.struts.taglib.tiles.InsertTag$InsertHandler.doEndTag(InsertTag.java:919) at
org.apache.struts.taglib.tiles.InsertTag.doEndTag(InsertTag.java:458) at
org.apache.jsp.jsp.tiles.layouts.sitools_jsp._jspx_meth_tiles_005finsert_005f4(sitools_jsp.java:405) at
org.apache.jsp.jsp.tiles.layouts.sitools_jsp._jspx_meth_html_005fhtml_005f0(sitools_jsp.java:195) at
org.apache.jsp.jsp.tiles.layouts.sitools_jsp._jspService(sitools_jsp.java:94) at
org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:70) at
javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:377) at
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:313) at
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:260) at javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:290) at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206) at
org.apache.catalina.core.ApplicationDispatcher.invoke(ApplicationDispatcher.java:646) at
org.apache.catalina.core.ApplicationDispatcher.doInclude(ApplicationDispatcher.java:551) at
org.apache.catalina.core.ApplicationDispatcher.include(ApplicationDispatcher.java:488) at
org.apache.jasper.runtime.JspRuntimeLibrary.include(JspRuntimeLibrary.java:968) at
org.apache.jasper.runtime.PageContextImpl.include(PageContextImpl.java:621) at
org.apache.struts.tiles.TilesUtilImpl.doInclude(TilesUtilImpl.java:99) at org.apache.struts.tiles.TilesUtil.doInclude(TilesUtil.java:135)
at org.apache.struts.taglib.tiles.InsertTag.doInclude(InsertTag.java:756) at
org.apache.struts.taglib.tiles.InsertTag$InsertHandler.doEndTag(InsertTag.java:888) at
org.apache.struts.taglib.tiles.InsertTag.doEndTag(InsertTag.java:458) at
org.apache.jsp.jsp.error_jsp._jspx_meth_tiles_005finsert_005f0(error_jsp.java:128) at
org.apache.jsp.jsp.error_jsp._jspService(error_jsp.java:82) at
org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:70) at
javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:377) at
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:313) at
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:260) at javax.servlet.http.HttpServlet.service(HttpServlet.java:717) at
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:290) at
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206) at
org.apache.catalina.core.ApplicationDispatcher.invoke(ApplicationDispatcher.java:646) at
org.apache.catalina.core.ApplicationDispatcher.processRequest(ApplicationDispatcher.java:436) at
org.apache.catalina.core.ApplicationDispatcher.doForward(ApplicationDispatcher.java:374) at
org.apache.catalina.core.ApplicationDispatcher.forward(ApplicationDispatcher.java:302) at
org.apache.struts.action.RequestProcessor.doForward(RequestProcessor.java:1054) at
org.apache.struts.tiles.TilesRequestProcessor.doForward(TilesRequestProcessor.java:259) at
org.apache.struts.action.RequestProcessor.processForwardConfig(RequestProcessor.java:386) at
org.apache.struts.tiles.TilesRequestProcessor.processForwardConfig(TilesRequestProcessor.java:314) at

THE COROT PUBLIC ARCHIVE AT LAEFF

This data server provides access to the COROT Archive at LAEFF.

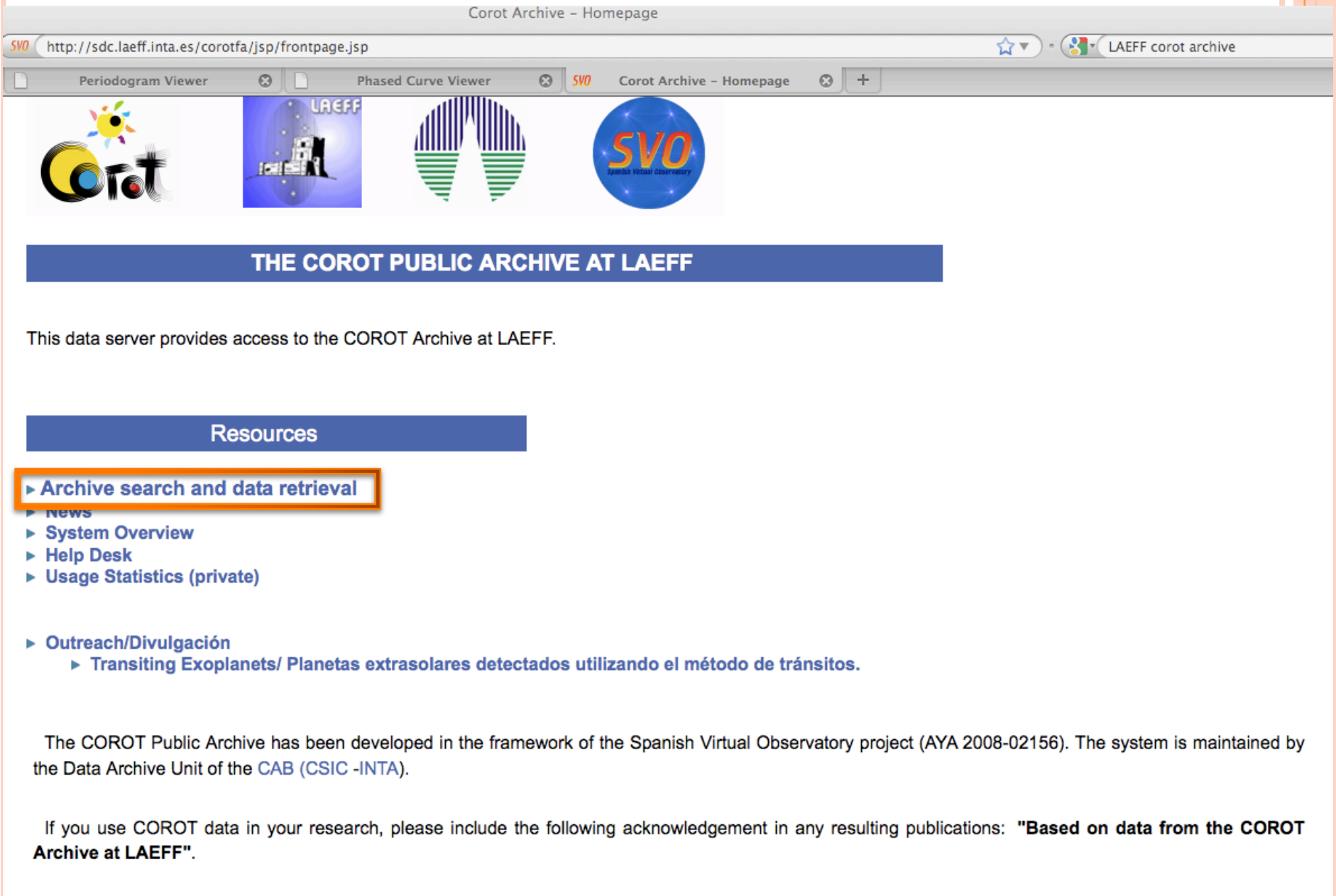
Resources

- **Archive search and data retrieval**
- **News**
- **System Overview**
- **Help Desk**
- **Usage Statistics (private)**

- **Outreach/Divulgación**
  - **Transiting Exoplanets/ Planetas extrasolares detectados utilizando el método de tránsitos.**

The COROT Public Archive has been developed in the framework of the Spanish Virtual Observatory project (AYA 2008-02156). The system is maintained by the Data Archive Unit of the CAB (CSIC -INTA).

If you use COROT data in your research, please include the following acknowledgement in any resulting publications: **"Based on data from the COROT Archive at LAEFF"**.


Corot Archive - Homepage
http://sdc.laeff.inta.es/corotfa/jsp/frontpage.jsp
LAEFF corot archive
Periodogram Viewer
Phased Curve Viewer
Corot Archive - Homepage
THE COROT PUBLIC ARCHIVE AT LAEFF
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THE COROT PUBLIC ARCHIVE AT LAEFF

Run: All

Data Type

- **Asteroseismology** ☑
  - Light curves ☑
- **Exoplanet** ☑
  - Monochromatic light Curves ☑
  - Chromatic Light Curves ☑

Search

Corot ID:

Object ID:

Coordinates List:

Radius: deg

*Coordinates Format:
deg deg or hh:mm:ss dd:mm:ss

* 'Object Id' is used only for asteroseismology data.

Light Curve Filter Criteria

Obs Date: From: - - To: - -

Vmag: -

B-V: -

Spectype:

O
B
A
F
G
K

Lumclass:

I
II
III
II-III
IV

Variability class (Important note):
(Only for exoplanet data)

ACT [Activity]
BCEP [Beta-Cephei stars]
BE [Variable Be-stars]
CLCEP [Classical Cepheids]
CP [Chemically peculiar stars]




THE COROT PUBLIC ARCHIVE AT LAEFF

Found 59278 records, displaying page 1 of 1186

Retrieval Format: zip Mark Fits: Mark ASCII: RAW: HEL: HELREG:

Retrieve Marked Data

ASTEROSEISMOLOGY

RUN	COROT ID	OBJECT ID	RA(J2000)	DE(J2000)	START DATE	END DATE	SpType	LUM	VMAG	B-V	TEFF	GRAVITY	METAL	BROWSE	FETCH/MARK	FETCH/MARK
LRa01	1	HD 49808	102.555	0.13704	2007-10-18	2008-03-03	F0	V	7.98	0.38	7117.0	3.6	-0.19	FITS	FITS	raw hel helreg
LRa01	14	HD 50064	102.892	0.29735	2007-10-18	2008-03-03	B6	I	8.29	0.81	27633.0			FITS	FITS	raw hel helreg
LRa01	18	HD 49385	102.048	0.30497	2007-10-18	2008-03-03	G0		7.89	0.47	6117.0	3.89	-0.47	FITS	FITS	raw hel helreg
LRa01	20	HD 49933	102.708	-0.54088	2007-10-18	2008-03-03	F2	V	5.77	0.39	6467.0	4.27	-0.37	FITS	FITS	raw hel helreg

THE COROT PUBLIC ARCHIVE AT LAEFF

Found 59278 records, displaying page 1 of 1186

Retrieval Format: zip Mark Fits: Mark ASCII: RAW: HEL: HELREG:

Retrieve Marked Data

Java plotting tool

ASTEROSEISMOLOGY

RUN	COROT ID	OBJECT ID	RA(J2000)	DE(J2000)	START DATE	END DATE	SpType	LUM	VMAG	B-V	TEFF	GRAVITY	MET	BROWSE	FETCH/MARK	FETCH/MARK
LRa01	1	HD 49808	102.555	0.13704	2007-10-18	2008-03-03	F0	V	7.98	0.38	7117.0	3.6	-0.1	FITS	FITS	raw hel helreg
LRa01	14	HD 50064	102.892	0.29735	2007-10-18	2008-03-03	B6	I	8.29	0.81	27633.0			FITS	FITS	raw hel helreg
LRa01	18	HD 49385	102.048	0.30497	2007-10-18	2008-03-03	G0		7.89	0.47	6117.0	3.89	-0.47	FITS	FITS	raw hel helreg
LRa01	20	HD 49933	102.708	-0.54088	2007-10-18	2008-03-03	F2	V	5.77	0.39	6467.0	4.27	-0.37	FITS	FITS	raw hel helreg

The End