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Kepler Objects of Interest (KOIs)

KOIs are well vetted, periodic, transit-like events in the Kepler data. The Kepler Project identifies these objects from the TCE list for further vetting. Some objects will be flagged as false positives.

All KOI tables are displayed in a single, interactive environment with separate tabs for each table (e.g., Q1-6, Q1-8, cumulative, etc). Column selection and filtering applies to all tabs, allowing easier comparison of values across KOI tables.

Current KOI Tables

The following table lists the interactive tables and documentation associated with each Kepler release to date.

Release Name	Release Description	Delivery History	Companion Document	Journal Article	Link to Table
Cumulative table only[1]	Description	PDF	N/A	N/A	
Cumulative and Quarterly Table[2]	N/A	N/A	N/A	N/A	
Q1-17 DR 25 Supplemental	Description	PDF	N/A	N/A	
Q1-17 DR 25	Description	PDF	Document	Thompson et al. (2018)	
Q1-17 DR 24	Description	PDF	Document	Coughlin et al. (2016)	
Q1-16	Description	PDF	Document	Mullally et al. (2015)	
Q1-12	Description	PDF	Document	Rowe et al. (2015)	
Q1-8	Description	PDF	Document	Burke et al. (2014)	
Q1-6	Description	PDF	N/A	Batalha et al. (2013)	

[1] The Cumulative table is a single tab containing a superset of KOIs from all available quarters. Use this link for faster performance when working with only the most current results.

[2] The combined Cumulative and Quarterly table contains KOI data for different quarters on separate tabs, as well as a superset of the data on a single tab. Use this link to access any of the quarterly activity tables (Q1-6, 1-8, 1-12 or 1-16) or to compare objects across tables.

MCMC Posterior Chains

The following files contain Markov Chain Monte Carlo (MCMC) posterior chains from fits to the KOIs. Compressed tar files are available for direct download, by wget script for the complete set (single script), or by wget script with one tar file per KOI (per object script).

Release	Description	Compressed File (.tar)	Download Script (wget)	Documentation
Q1-Q16	This file contains the MCMC posterior chains for all Q1-Q16 KOIs using fits to the Data Release 20-23 light curves and the Q1-Q16 Stellar Properties.	download (~8 GB)	single script per object script	KSCI-19084
Q1-Q17 DR 24	This file contains the MCMC posterior chains for the new Q1-Q17 DR 24 KOIs using fits to the Data Release 24 light curves and the Q1-Q17 Stellar Properties.	download (~8 GB)	single script per object script	KSCI-19084
Q1-Q17 DR 25	This file contains the MCMC posterior chains for the new Q1-Q17 DR 25 KOIs using fits to the Data Release 25 light curves and the	download (~35 GB)	single script per object script	KSCI-19113

| | Q1-Q17 Stellar Properties. | | | |

Documentation

The following are documents specific to Kepler Objects of Interest. For more general documentation, see the Kepler Mission page.

Kepler Extended Mission data philosophy	An overview of the delivery and archiving of Kepler TCEs and KOIs
How tabs work in the interactive tables	User documentation on using the tabs within the interactive table environment.
KOI table column definitions	This is a list of the data columns that appear in the Kepler table.
Q1-12 Release FAQ	A Q&A discussion that covers commonly asked questions about the Q1-12 data release.

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