

Name: Scott Fleming
Email: fleming@stsci.edu
Institution: Space Telescope Science Institute
Title: Kepler at MAST: New Data Products and An Introduction To the Portal
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Abstract:

Scott W. Fleming, Faith Abney, Tom Donaldson, Dorothy Fraquelli, Karen Levay, Brian McLean, Anthony Rogers, Mark Seibert, Bernie Shao, Randy Thompson, Shui-Ay Tseng, Geoff Wallace, Rick White

The Mikulski Archive for Space Telescopes (MAST) holds more than just the Kepler lightcurves and target pixel files. The archive hosts calibration and engineering data, Full Frame Images, the Kepler Input Catalog, and contributed catalogs such as the UBV and KIS surveys. We have cross-matched the KIC, UBV, KIS, GALEX, SDSS, and other catalogs to form a Kepler Target Table, which compiles a broad spectrum of information for stars in the Kepler field. Here, we present current and planned additions to the data stored at MAST, including the second half of the KIS survey, narrow-band H alpha fluxes from the KIS, variability statistics for every Kepler lightcurve, and a new cross-match catalog that will use a new association algorithm and employ additional catalogs such as PanSTARRS, WISE, and the new GALEX GCAT. We also introduce the MAST Portal, a one-stop search interface that allows users to find data across all the missions archived at MAST and the Virtual Observatory. The Portal supports table import/export, cross-matching, and includes a graphical AstroViewer complete with dataset footprints. The client is in development and will have an early release this winter. We highlight some specific uses of the Portal in the context of Kepler.