

## 6.1.2 - Download All Full Frame Images By Sector

This tutorial will show you how to retrieve pre-constructed [cURL](#) scripts to download calibrated or uncalibrated full frame images from a given Sector.

**Step 1 - Visit The Bulk Downloads Page:** The first step is to visit the [Bulk Downloads Page](#) for TESS at MAST. Included on this page is a section to download target pixel, light curve, and full frame image files by Sector ([Item #1](#)).

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### TESS Bulk Downloads

MAST offers programmatic access to many of the TESS data products. There is an [API](#) and an [astroquery](#) package that offers access to TESS data products within the Portal. You can automatically download files, given their MAST URL, using [wget](#) or [cURL](#). For a summary of ways to search and download data, see [this Archive Manual page](#).

On this page, you can find download options for several different TESS products. Some products are available to directly download via links, such as the engineering files. Others are provided via curl scripts to sequentially download a large number of files, such as getting all the FFI files from a given sector, or all light curve files for a given Guest Investigator program.

#### Simulated TESS Data Products

Visit the [simulated data product homepage](#) for download instructions and directory information.

#### TIC and CTL Bulk Downloads

Visit the [TIC and CTL download page](#) to get the full catalogs as .csv files.

#### **Bulk Download Of Full Frame Images, Target Pixel, and Light Curves By Sector**

Visit the [FFI-TP-LC Bulk Downloads Page](#) to get cURL scripts to download all FFI, target pixel, or light curve files for a given Sector.

#### Target Pixel, Light Curve, and Data Validation Files By Guest Investigator Program

Visit the [Guest Investigator Bulk Downloads Page](#) to get cURL scripts to download all light curves or target pixel files for a given Guest Investigator Proposal ID.


#### All Data Validation Products By Sector

Coming Soon.

#### Download TCE Catalogs In CSV Format

Visit the [TCE Bulk Downloads Page](#) to get .csv text files of all the Threshold Crossing Event (TCE) statistics from a given sector or sector range ("multi-sector").

**Step 2 - Download The Bulk Download Script:** The table on the left of this page contains cURL scripts to retrieve full frame images by Sector. Calibrated and uncalibrated images are available for bulk download as separate scripts (the middle column specifies which type the script file is for). To download all calibrated full frame images from Sector 1, download the shell script file in the first row ([Item #1](#)).



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Download all TESS Full Frame Image (FFI), target pixel (TP) files, or light curve (LC) files by sector using the cURL scripts provided.

Full Frame Images		
Sector	Type	cURL File
Sector 1	Calibrated	<a href="#">tesscurl_sector_1_ffic.sh</a>
Sector 2	Calibrated	<a href="#">tesscurl_sector_2_ffic.sh</a>
Sector 1	Uncalibrated	<a href="#">tesscurl_sector_1_ffir.sh</a>
Sector 2	Uncalibrated	<a href="#">tesscurl_sector_2_ffir.sh</a>

Target Pixel and Light Curve Files		
Sector	Type	cURL File
Sector 1	Target Pixel	<a href="#">tesscurl_sector_1_tp.sh</a>
Sector 2	Target Pixel	<a href="#">tesscurl_sector_2_tp.sh</a>
Sector 1	Light Curve	<a href="#">tesscurl_sector_1_lc.sh</a>
Sector 2	Light Curve	<a href="#">tesscurl_sector_2_lc.sh</a>

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**Step 3 - Make The Script Executable And Run It:** Once you have downloaded the file, make it executable (on Linux/Mac you can run a "chmod" command) and then run the file and your downloads will begin. The files will be saved on disk in the same location you ran the script from.