

# Calibration Reference Files

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## Calibration Products

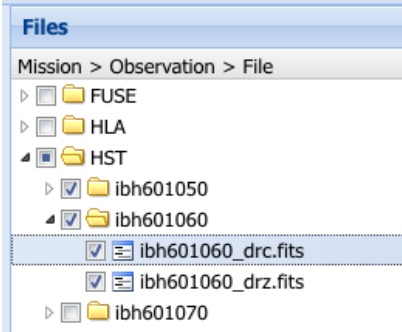
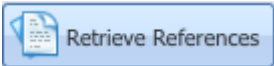
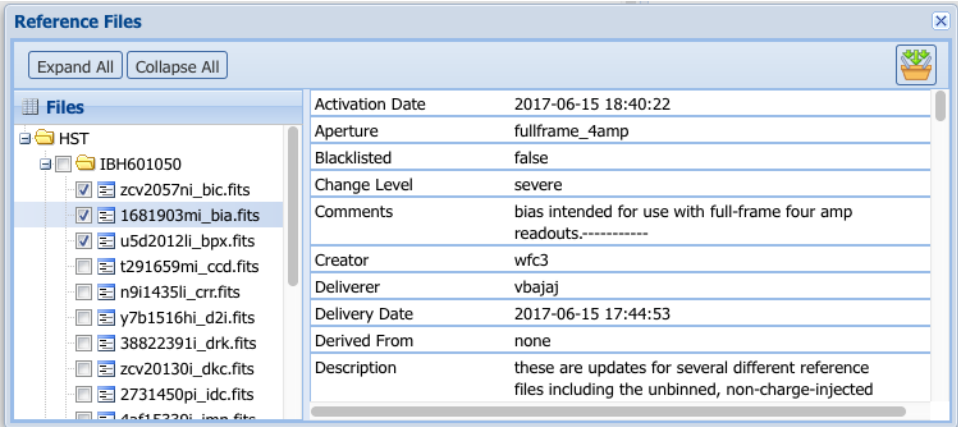
After selecting science files in the Download Manager, for some missions it is possible to also add those calibration reference files that were used by the processing pipeline to create those science files. These reference files will correspond to the most recent calibration.

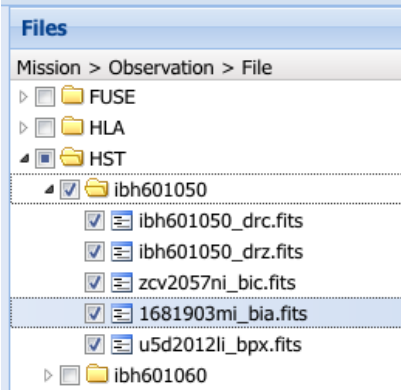


Calibration reference files are only available for select missions (HST and JWST) where STScI also operates the data processing pipelines. These files are compatible with the associated open-source calibration processing software. See the [Overview of CRDS](#) for background information about calibration reference files.

## Workflow

Use the following process to Include calibration reference products in the download bundle.

|   | Instruction                                                                                                                                                                                                                                                            | Notes                                                                                 |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 | Select one or more calibrated products in the <b>Files</b> panel of the <b>Download Manager</b>                                                                                                                                                                        |   |
| 2 | Click the <b>Retrieve References</b> button.<br><br> This button is only enabled if the <i>Minimum Recommended Products</i> box (in the <a href="#">Files panel</a> ) is unchecked. |  |
| 3 | A <b>Reference Files</b> window will appear, similar to the one below, containing the applicable reference files. Check one or more of the boxes for individual files, or the box for the folder.                                                                      |   |

|   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | <p>Click the <b>Basket</b> button to add the selected files to the Download Basket.</p> <div data-bbox="215 184 1034 273"> This action only makes the calibration reference files <i>available for selection</i> in the basket.</div>                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5 | <p>Back at the original Download Manager <b>Files</b> panel, check the reference file boxes to include them in the download bundle.</p> <div data-bbox="215 384 1034 472"> You must again select the calibration reference files in the parent <b>Files</b> panel for them to be included in the download manifest.</div> |  <p>The screenshot shows a 'Files' panel with a breadcrumb trail 'Mission &gt; Observation &gt; File'. The directory tree includes folders 'FUSE', 'HLA', and 'HST'. The 'HST' folder is expanded, showing a sub-folder 'ibh601050' which is also expanded. Inside 'ibh601050', several files are listed with checkboxes: 'ibh601050_drc.fits', 'ibh601050_drz.fits', 'zcv2057ni_bic.fits', '1681903mi_bia.fits' (highlighted), and 'u5d2012li_bpx.fits'. Below this, another folder 'ibh601060' is partially visible.</p> |