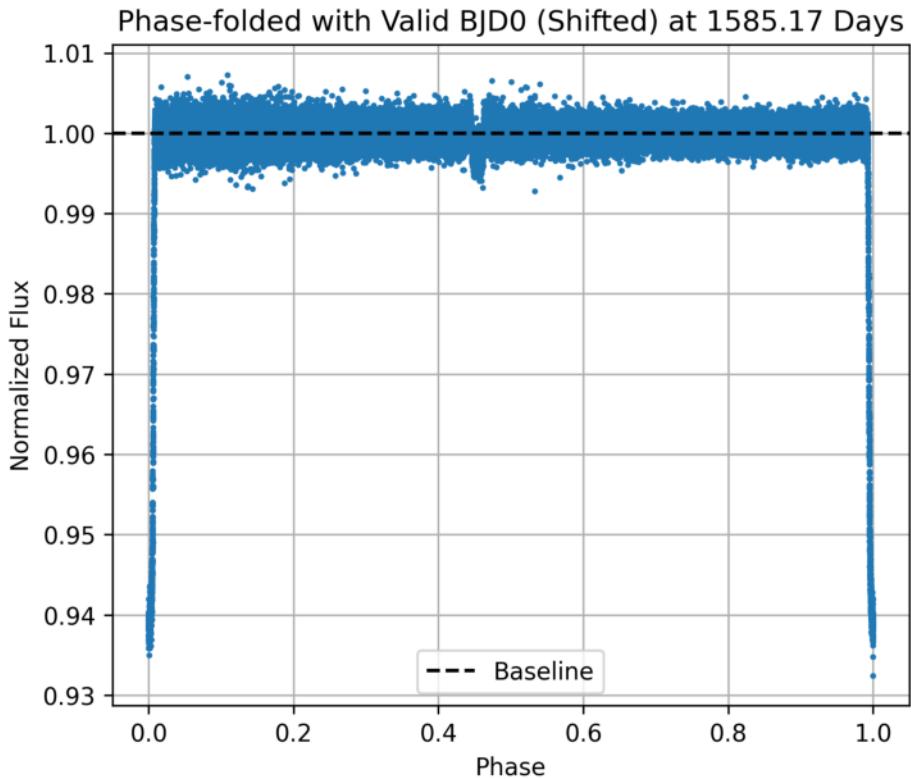


# **TIC260128333 — Detrending Diagnostic**

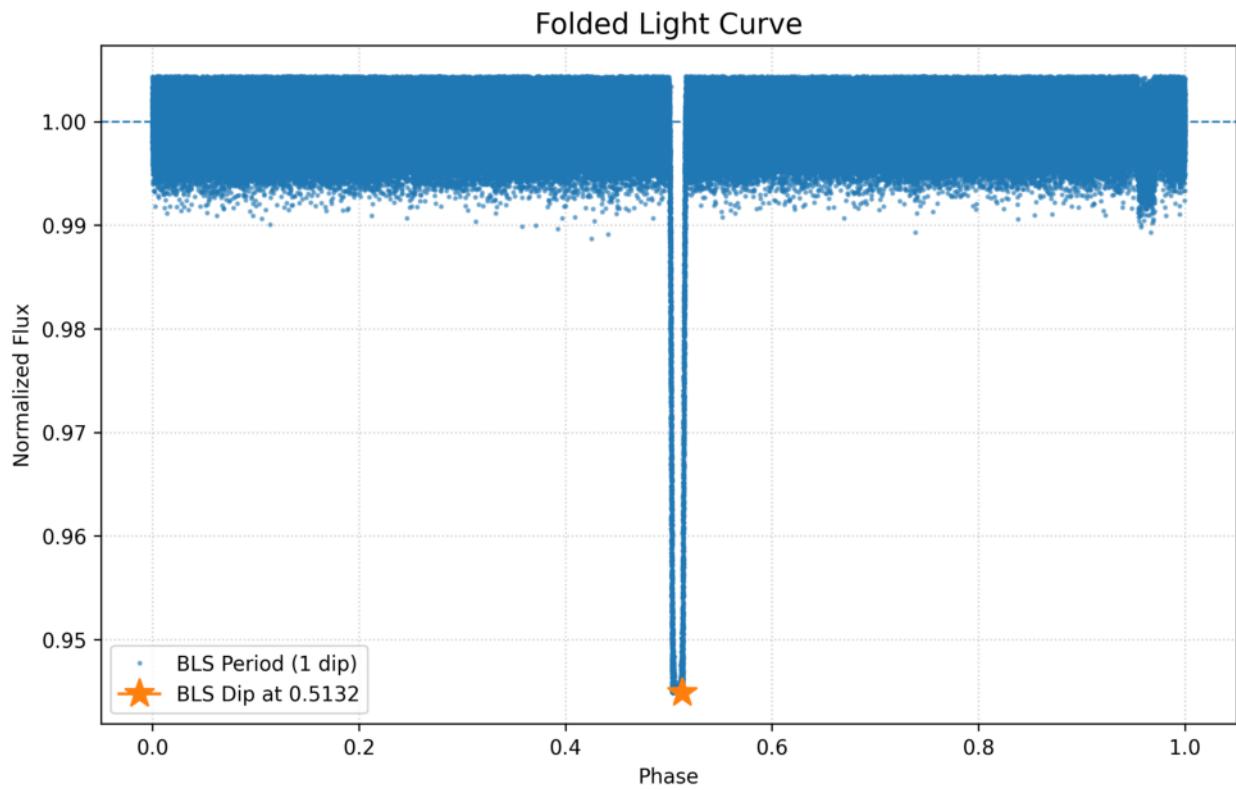
## **Timing (raw)**

```
{  
  "_rows": [  
    "Start time: 1765068469.33671",  
    "End time: 1765069620.7258337",  
    "Total time: 1151.3891236782074 seconds"  
  ]  
}
```

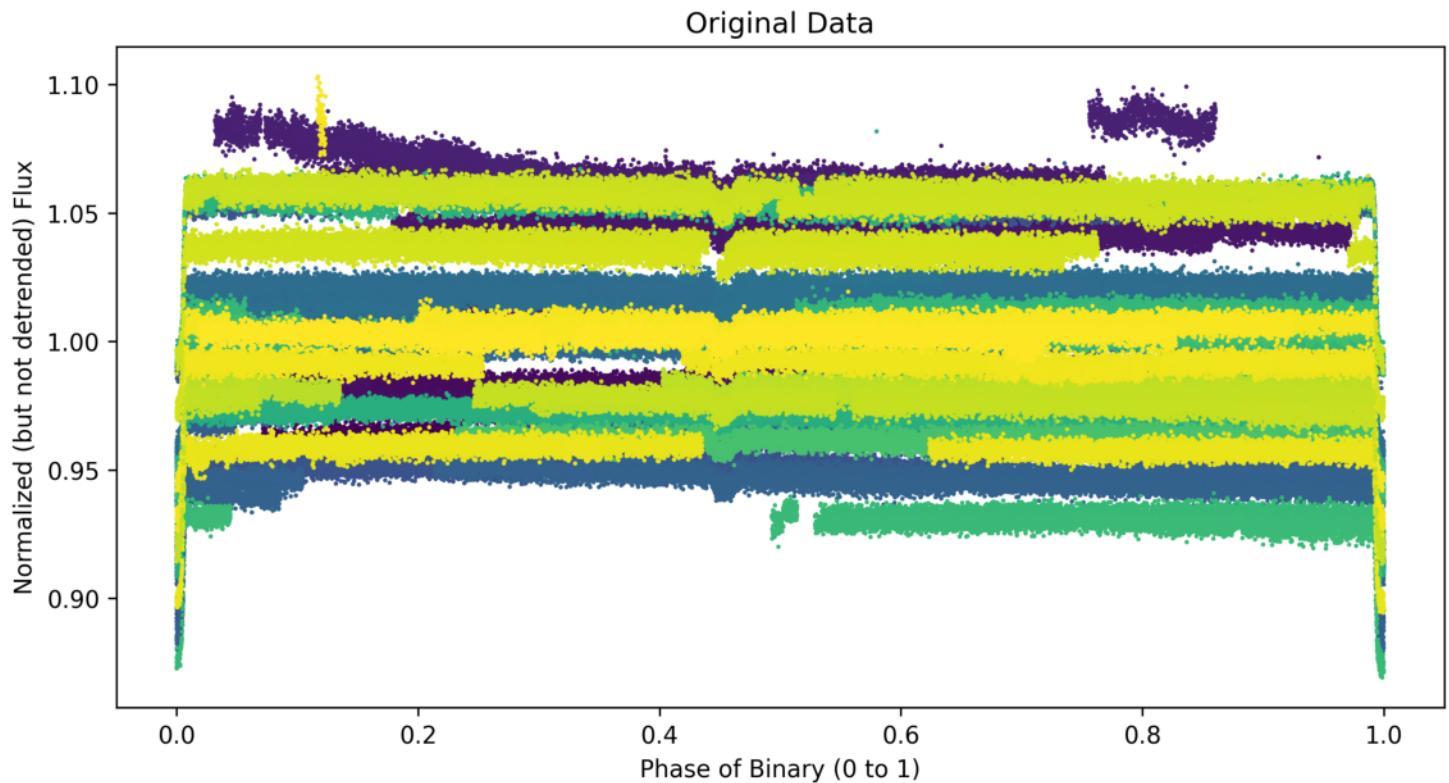
Data Preparation: BJD0Validation\_260128333.png



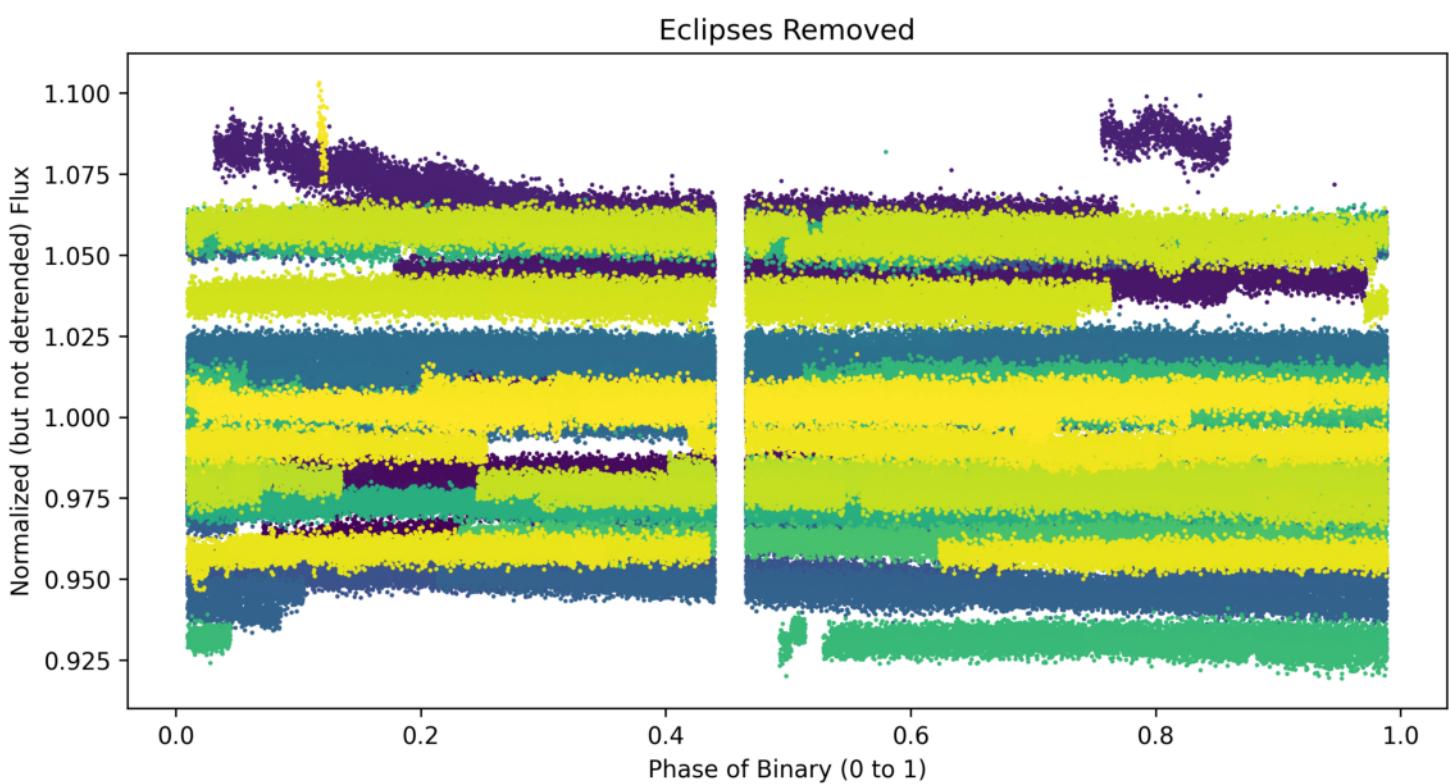
Data Preparation: BLS\_Double\_Period\_260128333.png



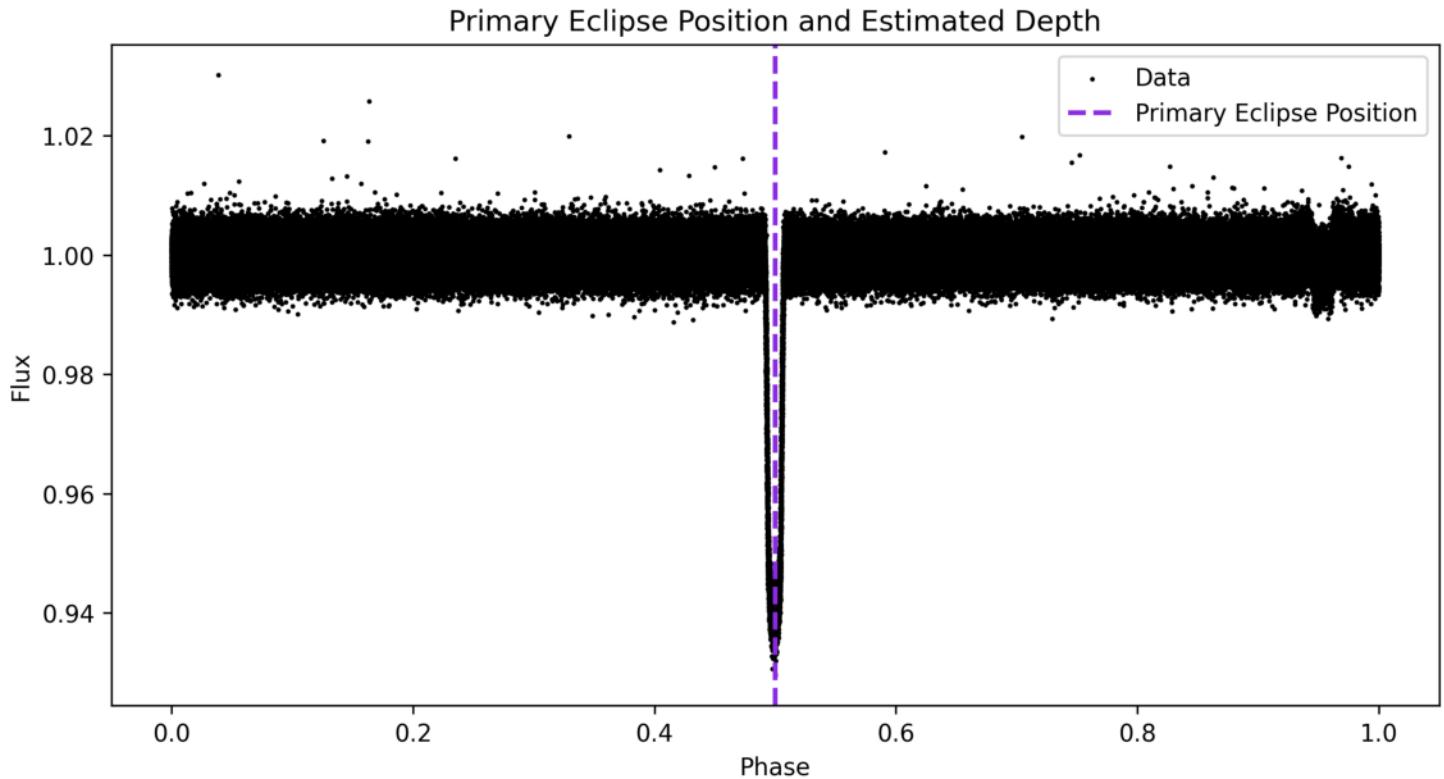
Data Preparation: Original\_Data\_260128333.png



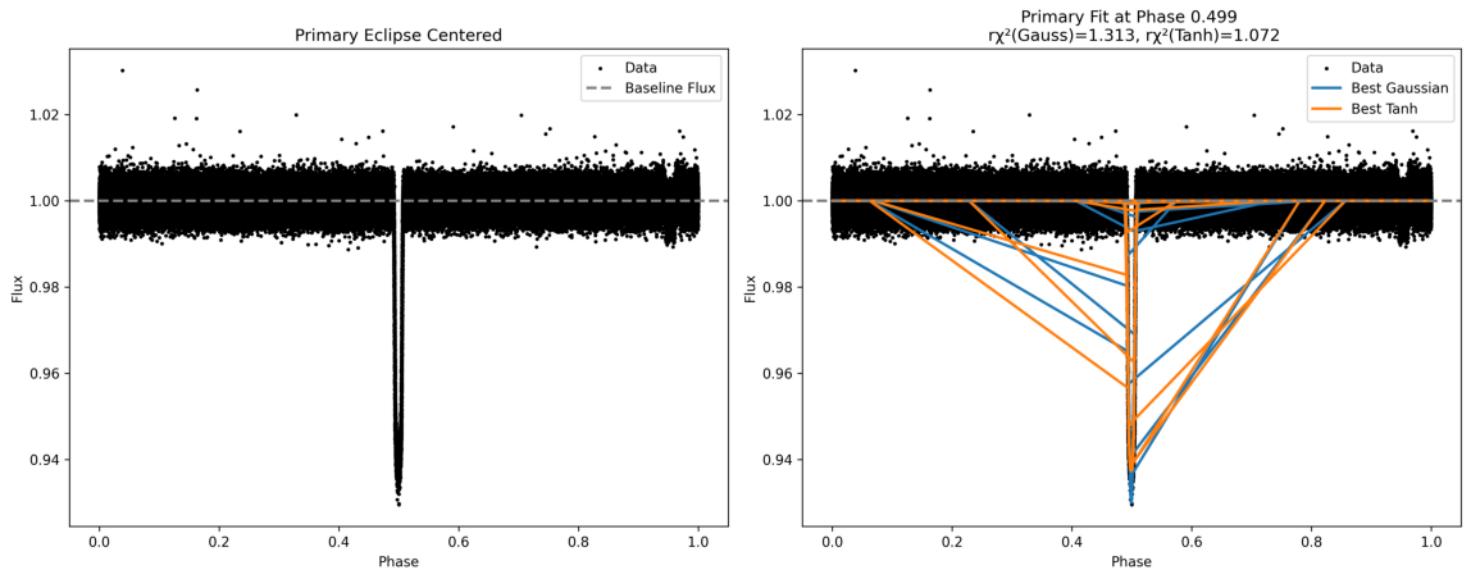
Data Preparation: Phase\_Folded\_Eclipses\_Removed\_260128333.png



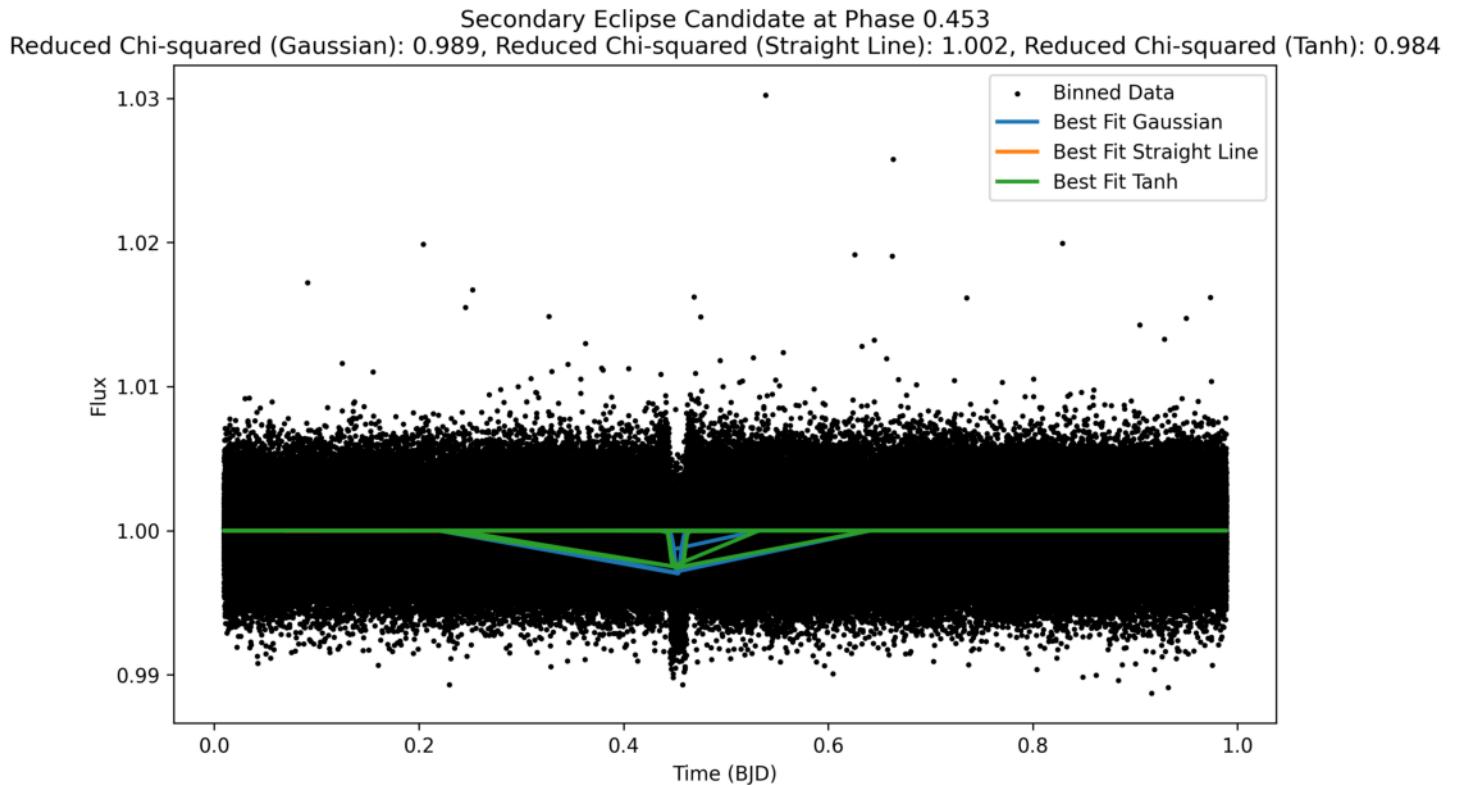
Data Preparation: Primary\_Eclipse\_Estimate\_260128333.png



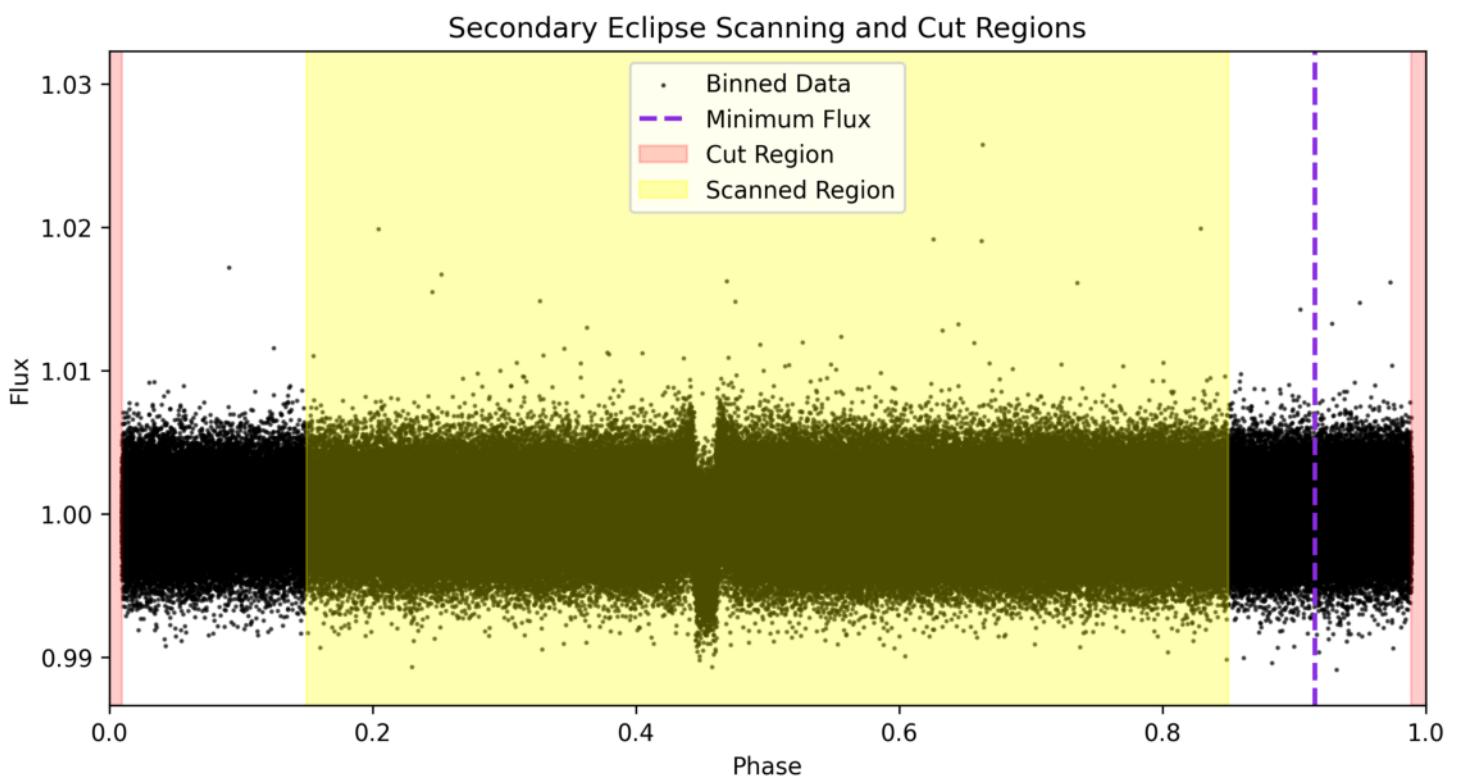
Data Preparation: Primary\_Eclipse\_Fit\_260128333.png



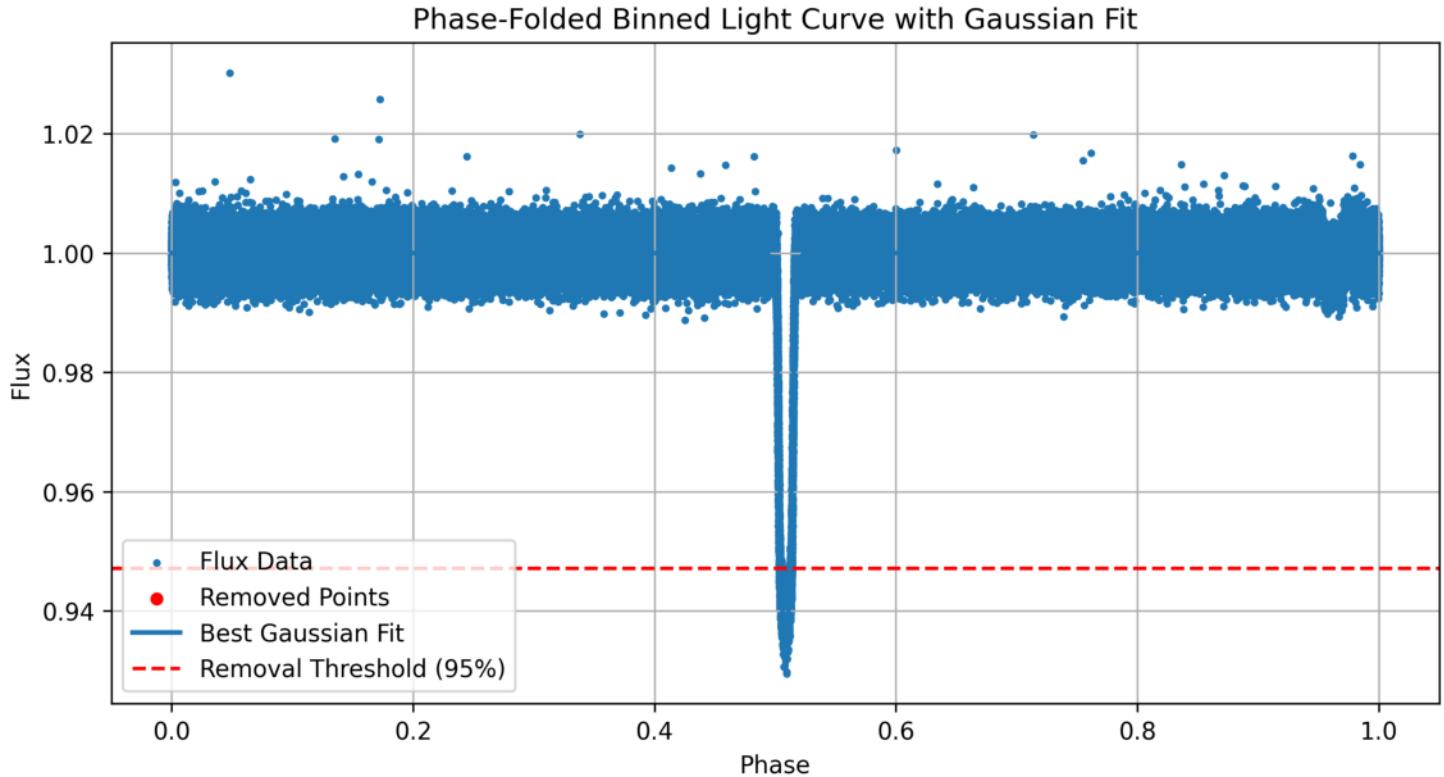
## Data Preparation: Secondary\_Eclipse\_Candidate\_260128333.png



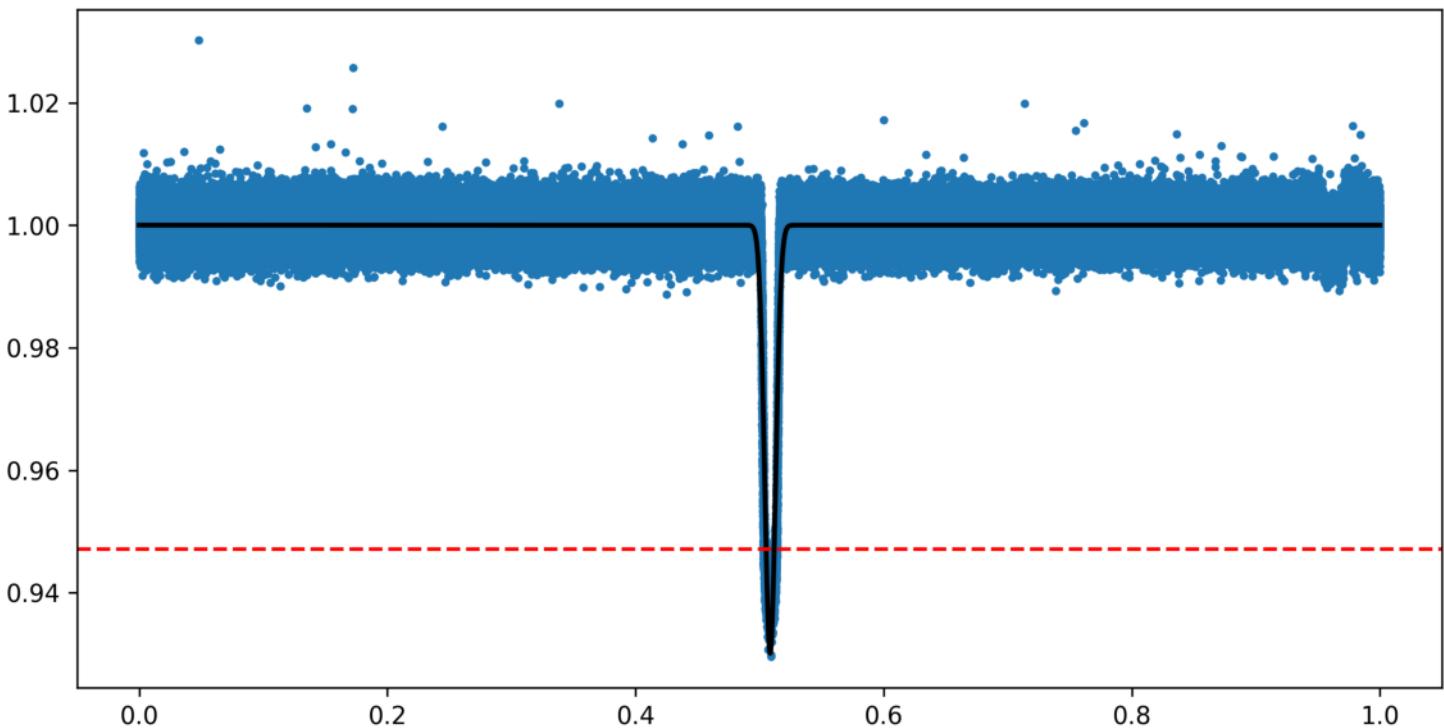
## Data Preparation: Secondary\_Eclipse\_Scanning\_260128333.png



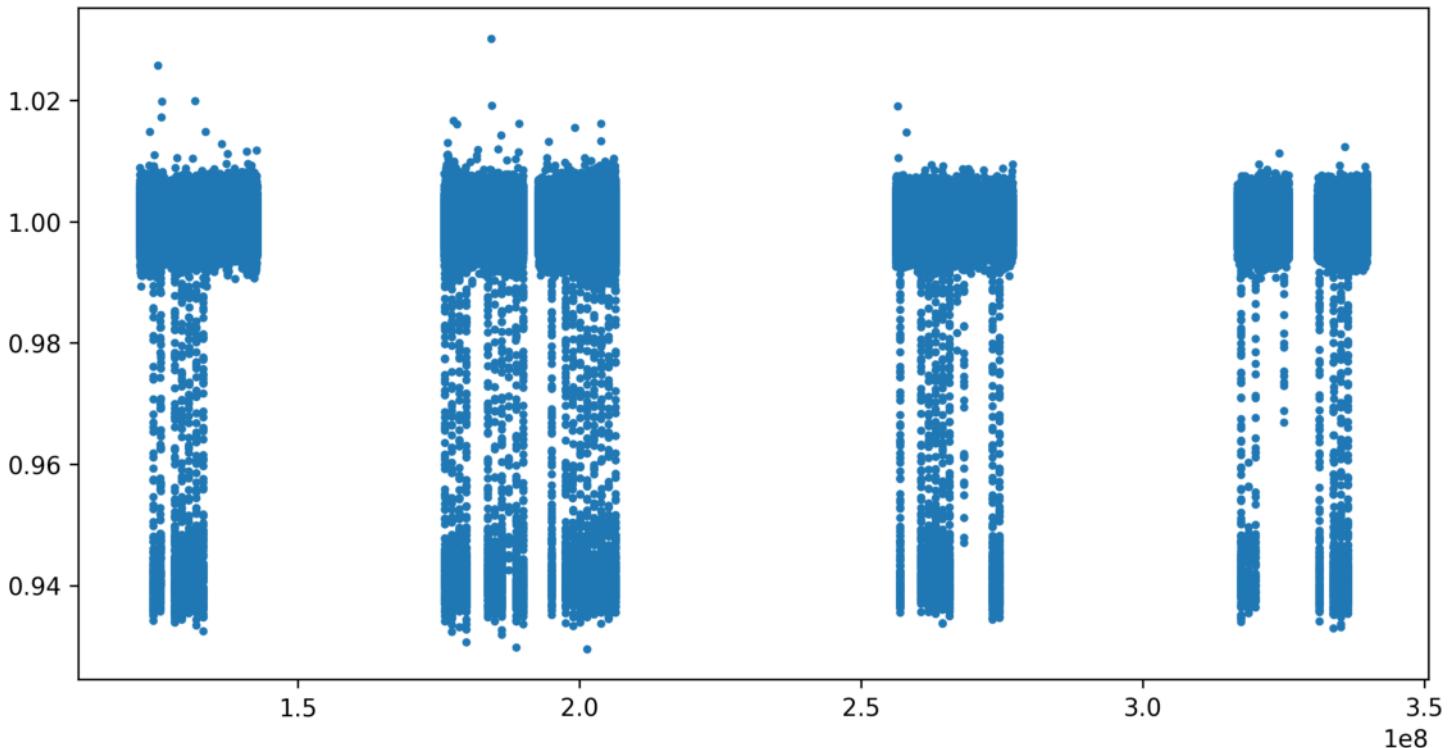
Data Preparation: Spurious\_Signals\_Removed\_260128333.png



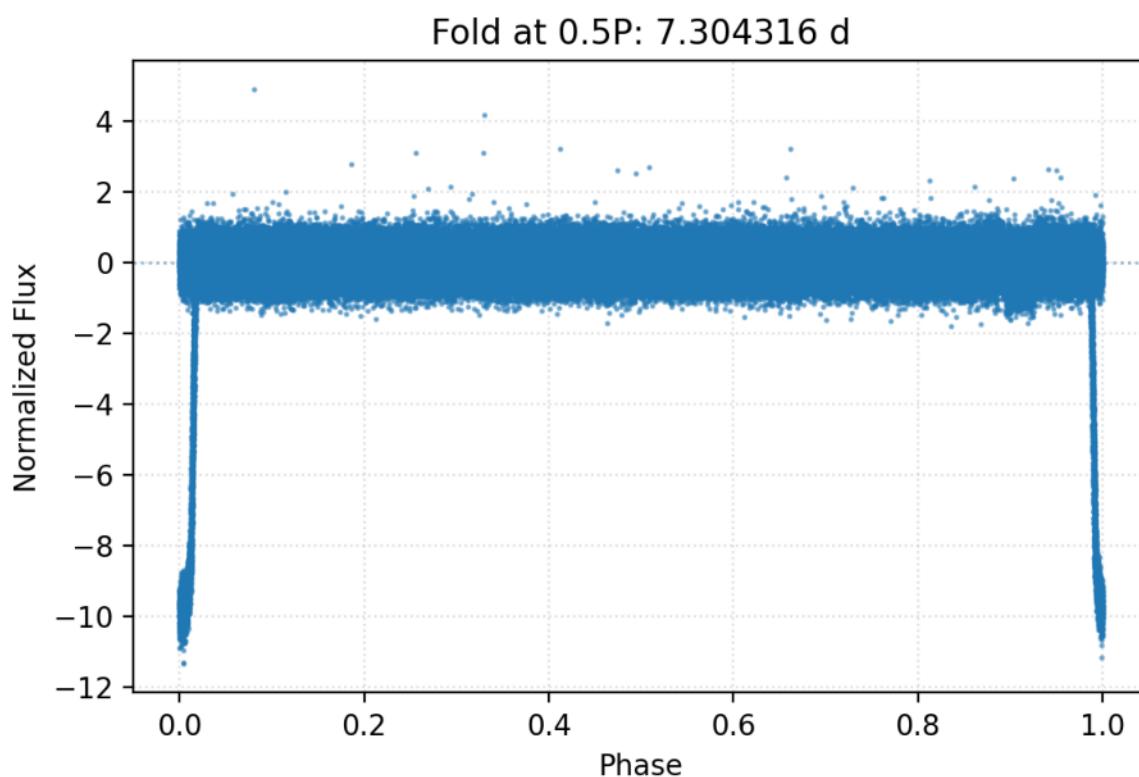
Data Preparation: Spurious\_Signals\_Removed\_PHASE\_260128333.png



Data Preparation: Spurious\_Signals\_Removed\_TIME\_260128333.png

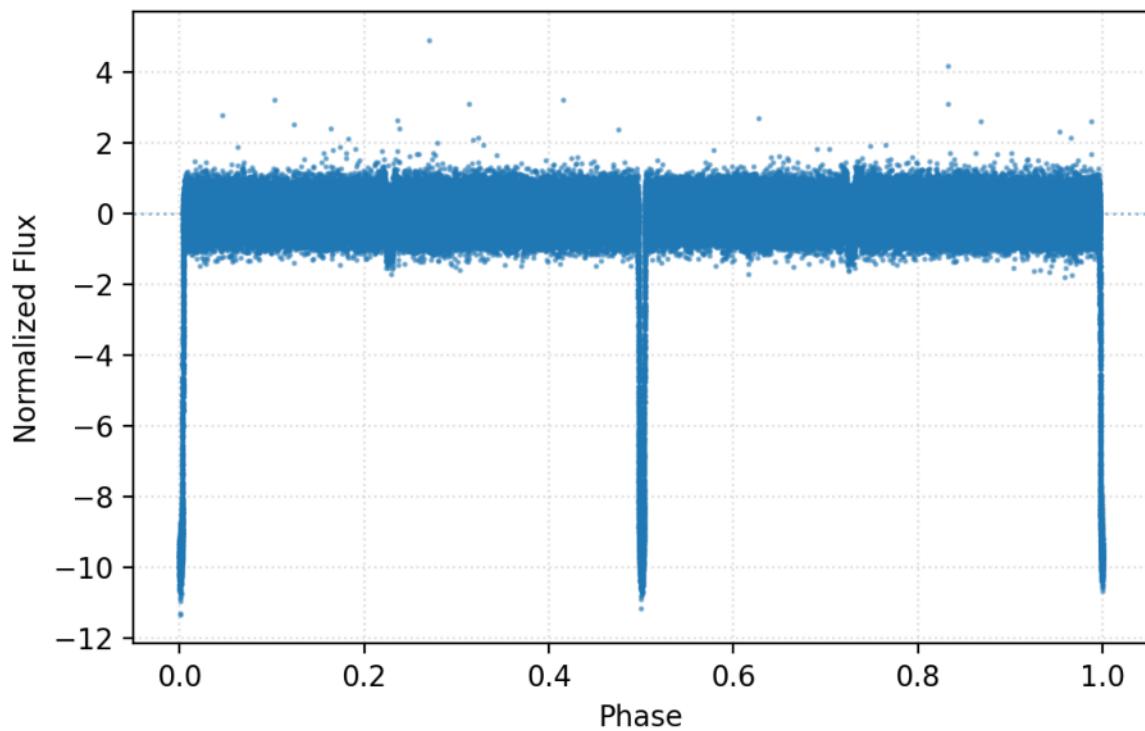


Data Preparation: target\_harmonics\_0p5P.png



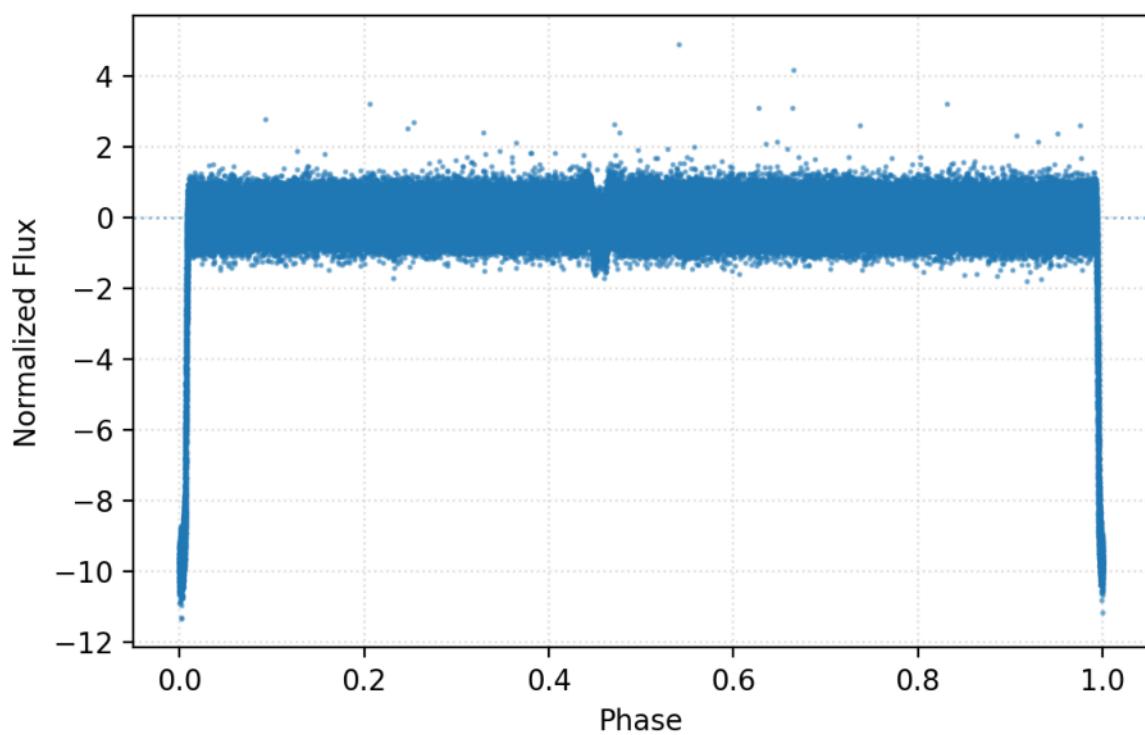
Data Preparation: target\_harmonics\_2p0P.png

Fold at 2.0P: 29.217264 d

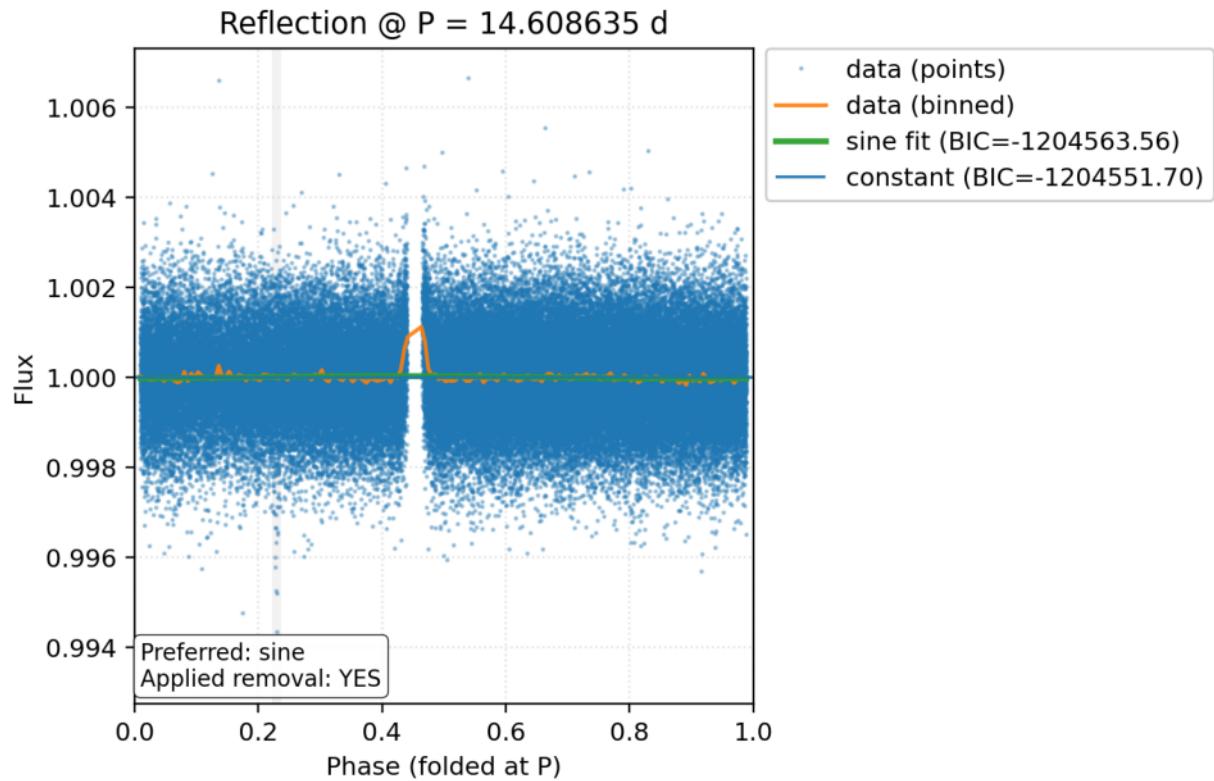


Data Preparation: target\_harmonics\_P.png

Fold at P: 14.608632 d



Data Preparation: TutorialTOI1338Parallel\_reflection\_compare.png



Data Preparation: Validated\_Period\_Extra\_260128333.png

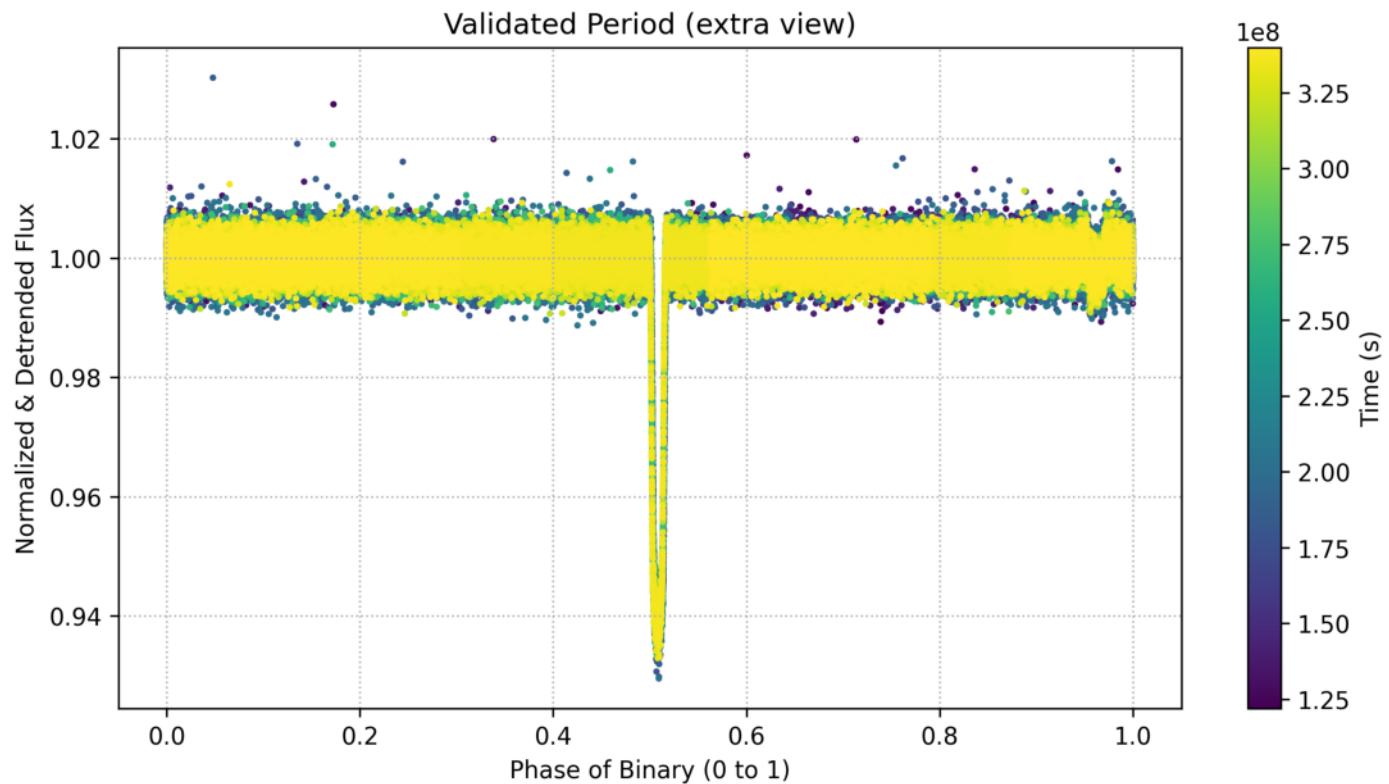


Figure: TIC260128333\_TutorialTOI1338Parallel\_deepestPoints.png

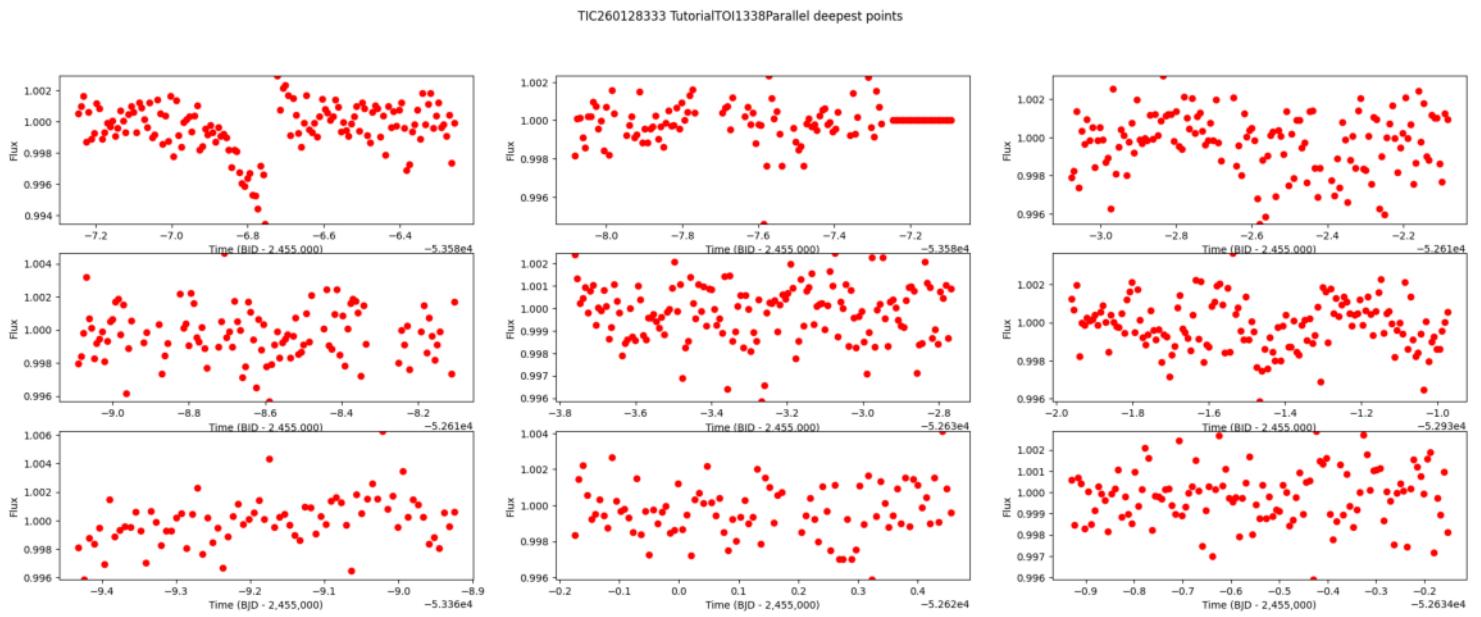


Figure: TIC260128333\_TutorialTOI1338Parallel\_hookGaps.png

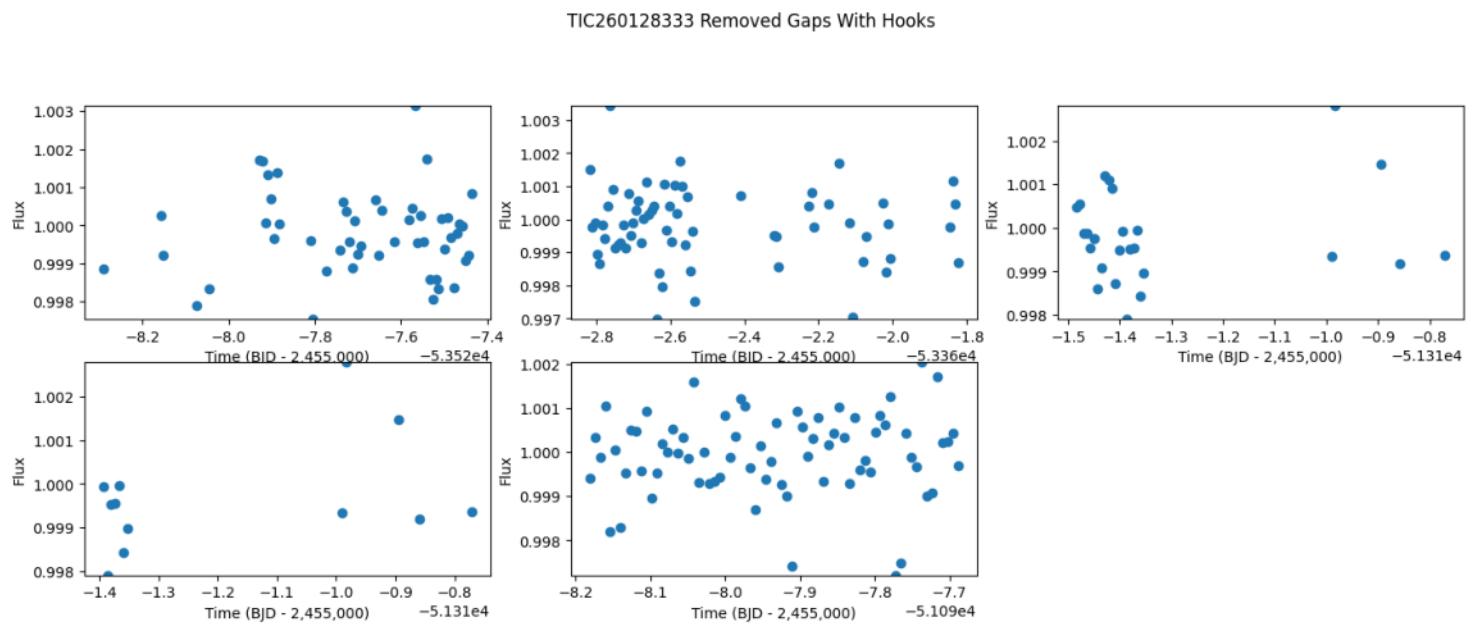


Figure: TIC260128333\_TutorialTOI1338Parallel\_hookJumps.png

## TIC260128333 Removed Jumps In The Data

Figure: TIC260128333\_TutorialTOI1338Parallel\_potentialLedges.png

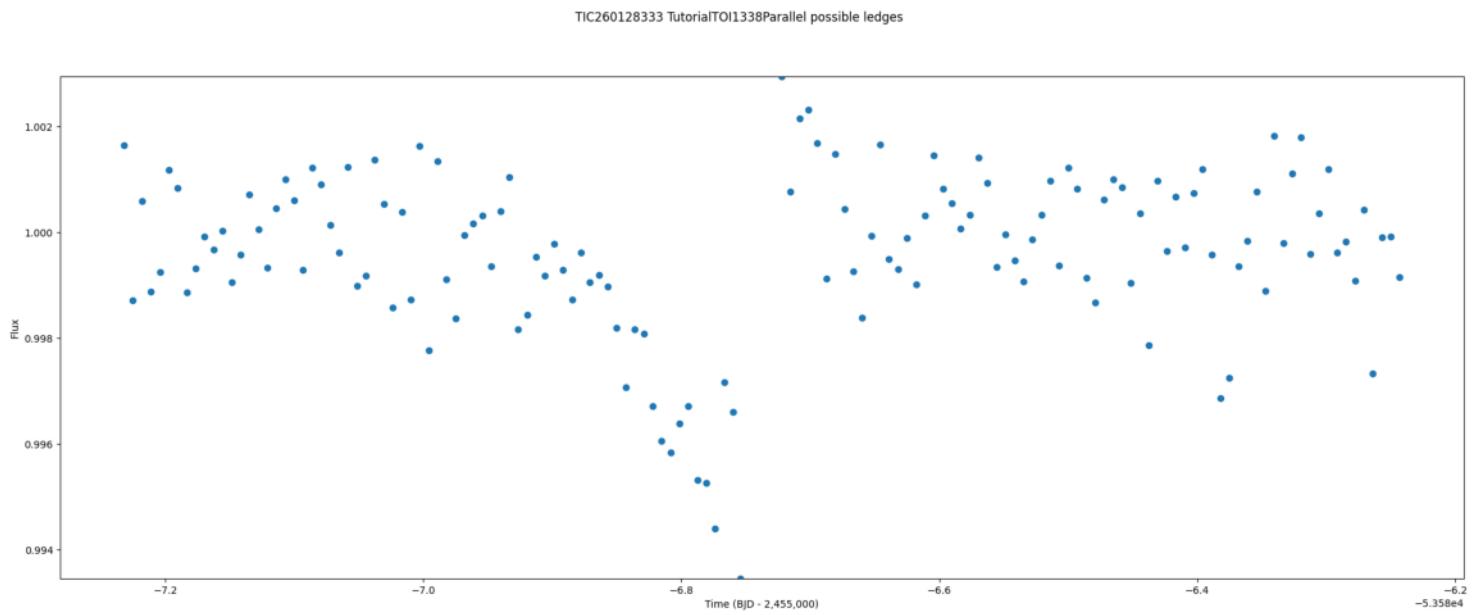


Figure: TIC\_260128333\_phase\_folded\_eclipses\_removed.png

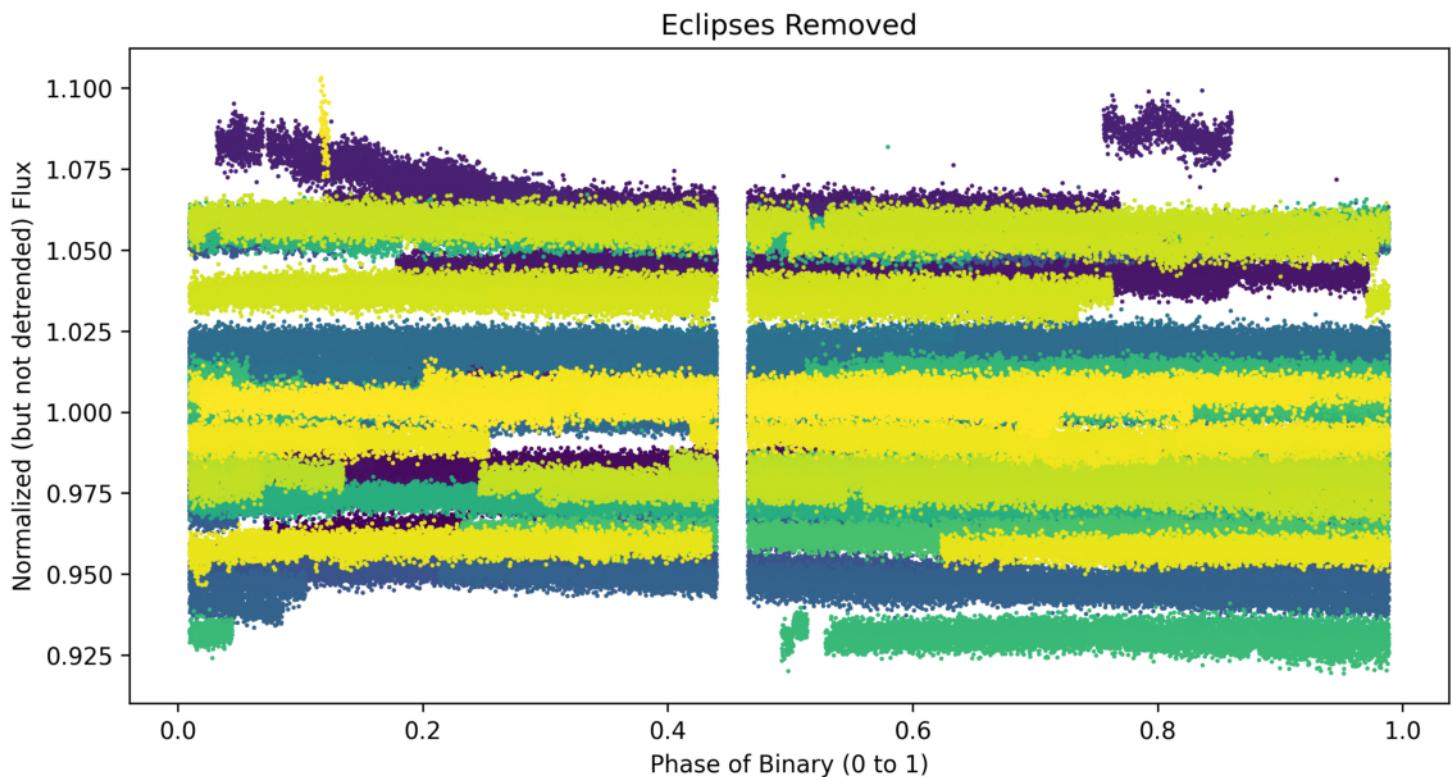


Figure: TIC\_260128333\_phase\_folded\_original\_data.png

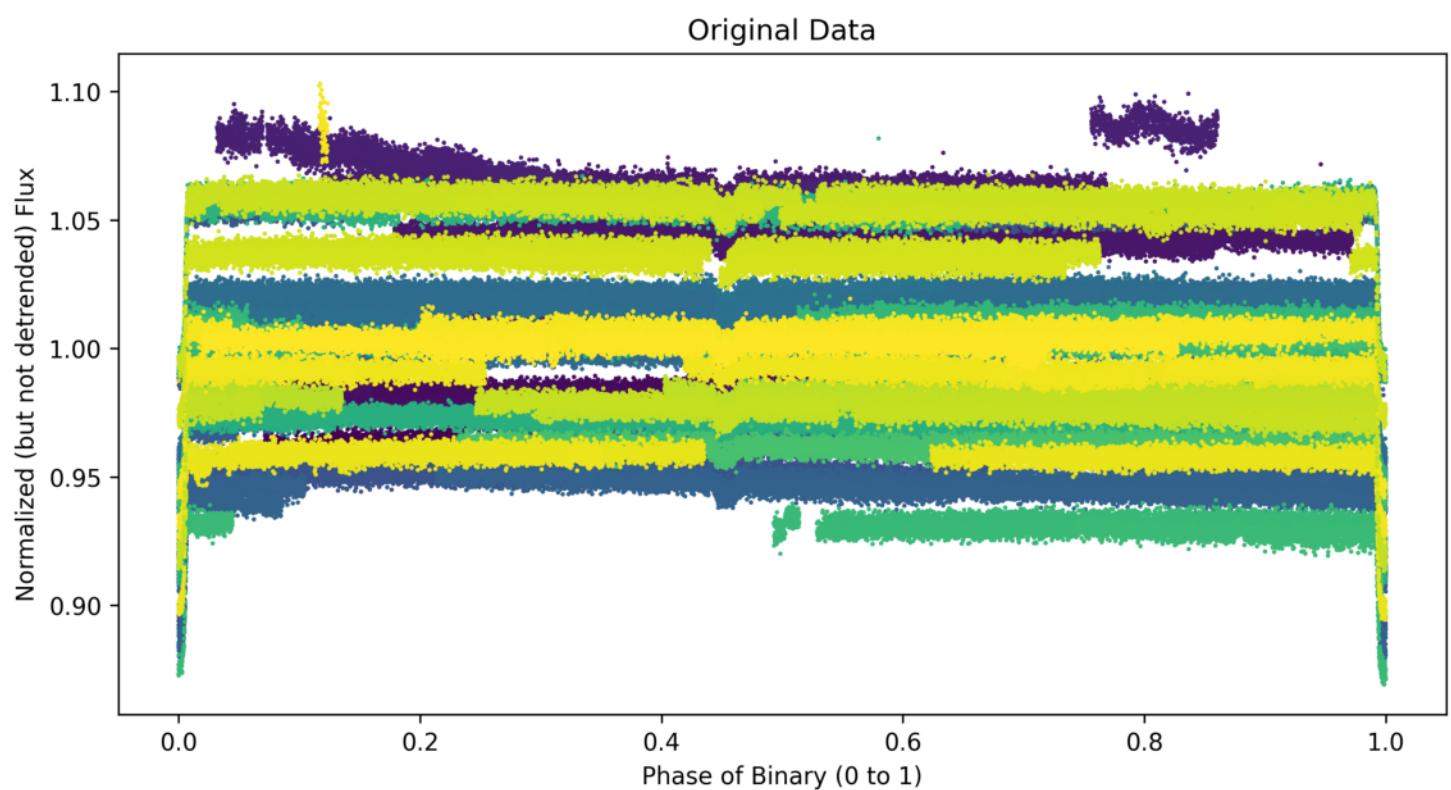


Figure: TIC\_260128333\_TutorialTOI1338Parallel\_detrendingStages.png

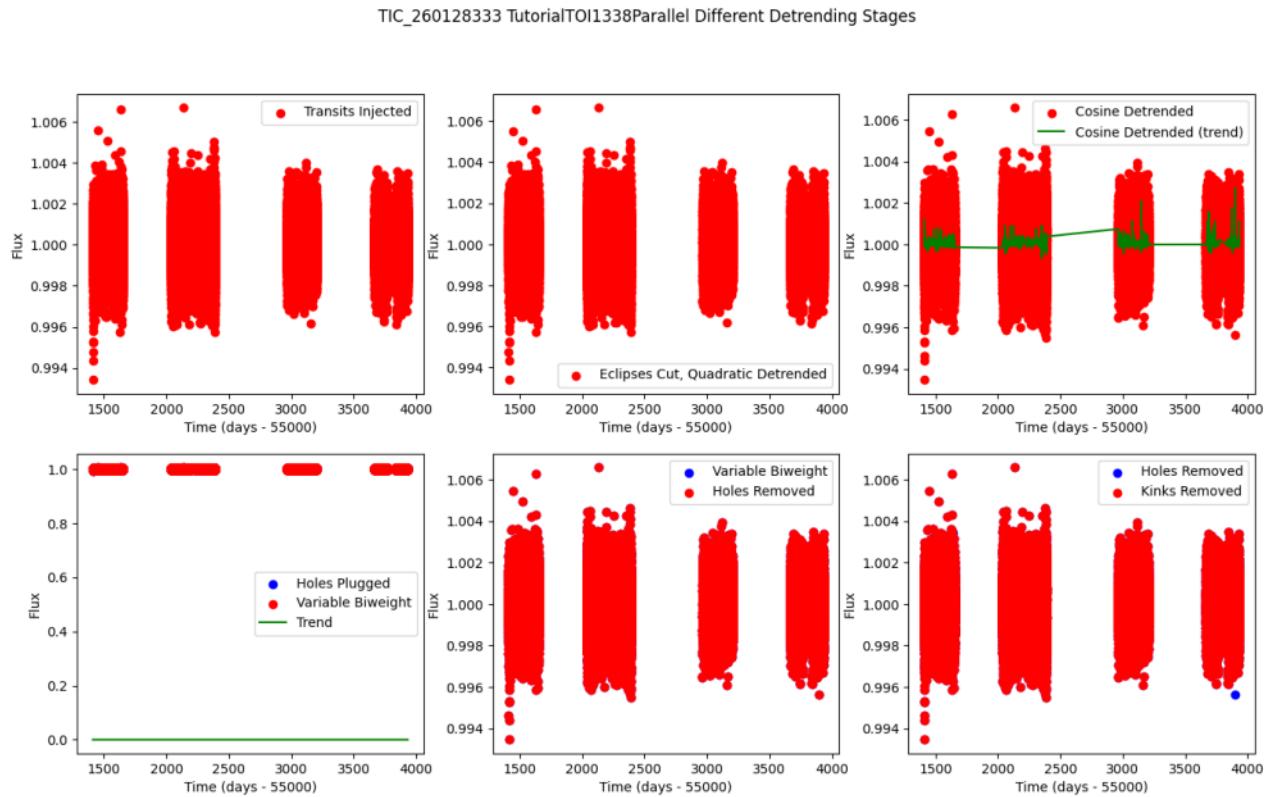


Figure: TIC\_260128333\_TutorialTOI1338Parallel\_periodograms.png

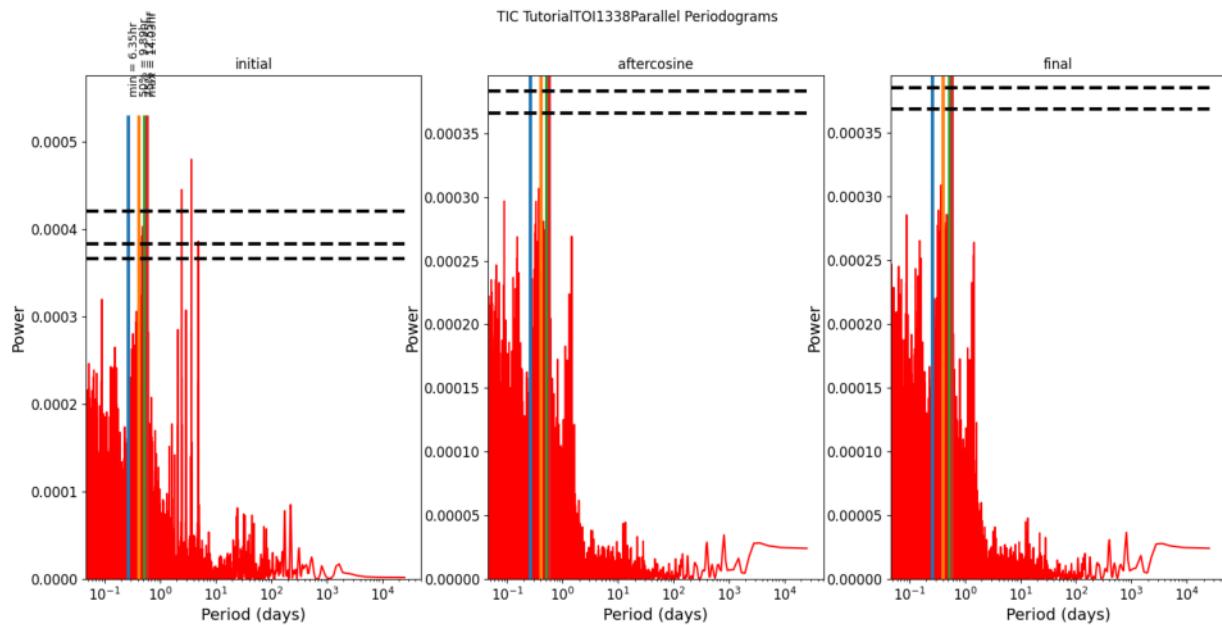
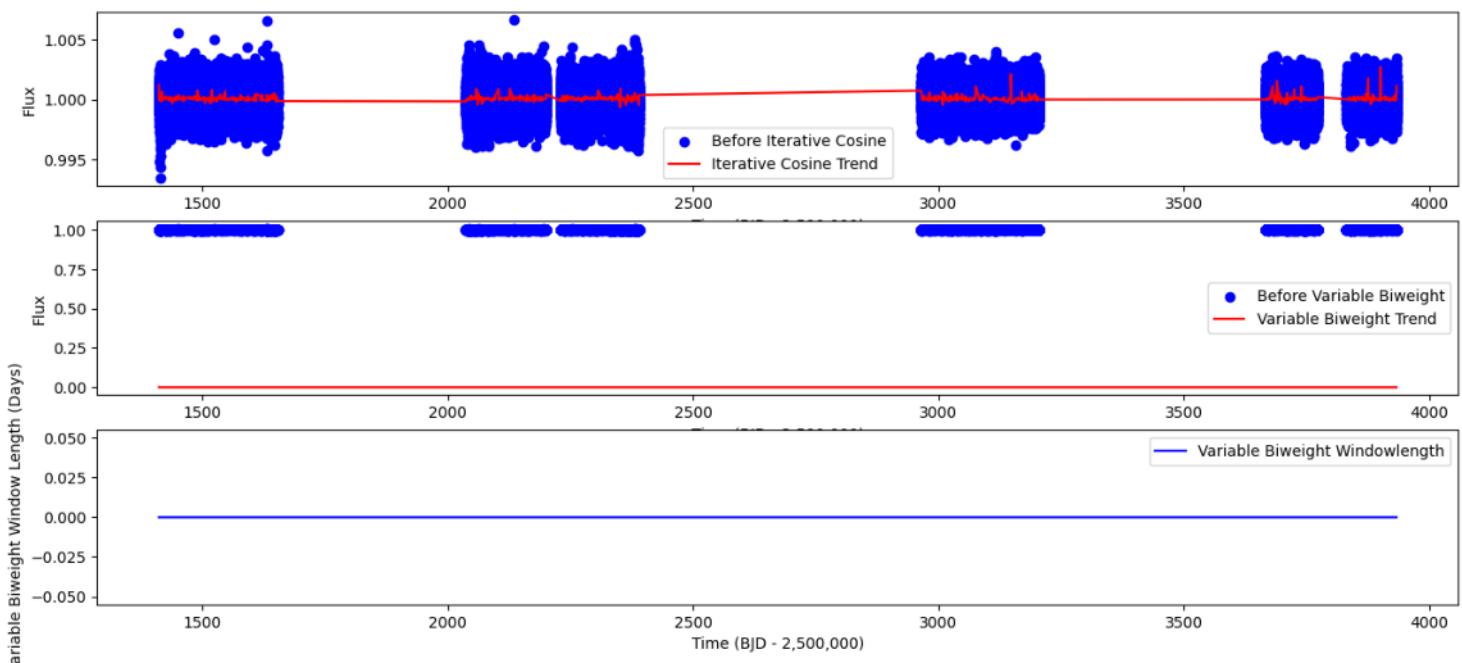


Figure: TIC\_260128333\_TutorialTOI1338Parallel\_trends.png



# Binary Starting Parameters

## Binary Starting Parameters (CSV)

```
{  
    "mA (mSun)": "1.2",  
    "mB (mSun)": "0.325",  
    "RA (RSun)": "1.25",  
    "RB (RSun)": "0.3134562733739666",  
    "bjd0 (Days - 2550000)": "-53414.833326",  
    "theta (deg)": "125.19447335031276",  
    "Pbin (days)": "14.608635335577416",  
    "ecc": "0.1555219999999999",  
    "omega (deg)": "117.77090183134572"  
}
```

## Source file

LightCurves\Processed\TutorialTOI1338Parallel\TIC\_260128333\_TutorialTOI1338Parallel\_binaryStartingParams.csv