

LUCY TTCam Review

PDS4

Yuna Kwon, Oct 16, 2025

Overview

Documentation/ancillaries

- The `Bundle.xml` file opens properly in the PDS viewer.
- The `readme.txt` file clearly summarizes the data contents and their organization, making it very helpful for navigating the dataset.
- The `xml` files in the document folder open properly in the PDS viewer.

Overview

Data Sanity Check

- Confirmed:
 - The ancillary data in FITS labels and tables looked reasonable.
 - All image files open properly in the PDS viewer, ds9, and Python.
 - For each of the 195 raw and 195 calibrated images:
 - 10 calibration-mode images: 2000 lines x 2592 samples
 - 185 tracking-mode images: 1944 lines x 2592 samples
- **Recommendation:** I would strongly suggest placing the different mode images in separate folders. The current structure mixes everything together, which makes it inconvenient for users to quickly locate the science target data.

Overview

Data Sanity Check

- Confirmed:
 - FITS grammar complies with the IVOA FITS standards.
 - Ancillary images (e.g., bpm, rad_err) have the same dimensions as the primary science images.
 - BPM values of all FIT images appear to be correctly assigned within the expected range [0, 4].

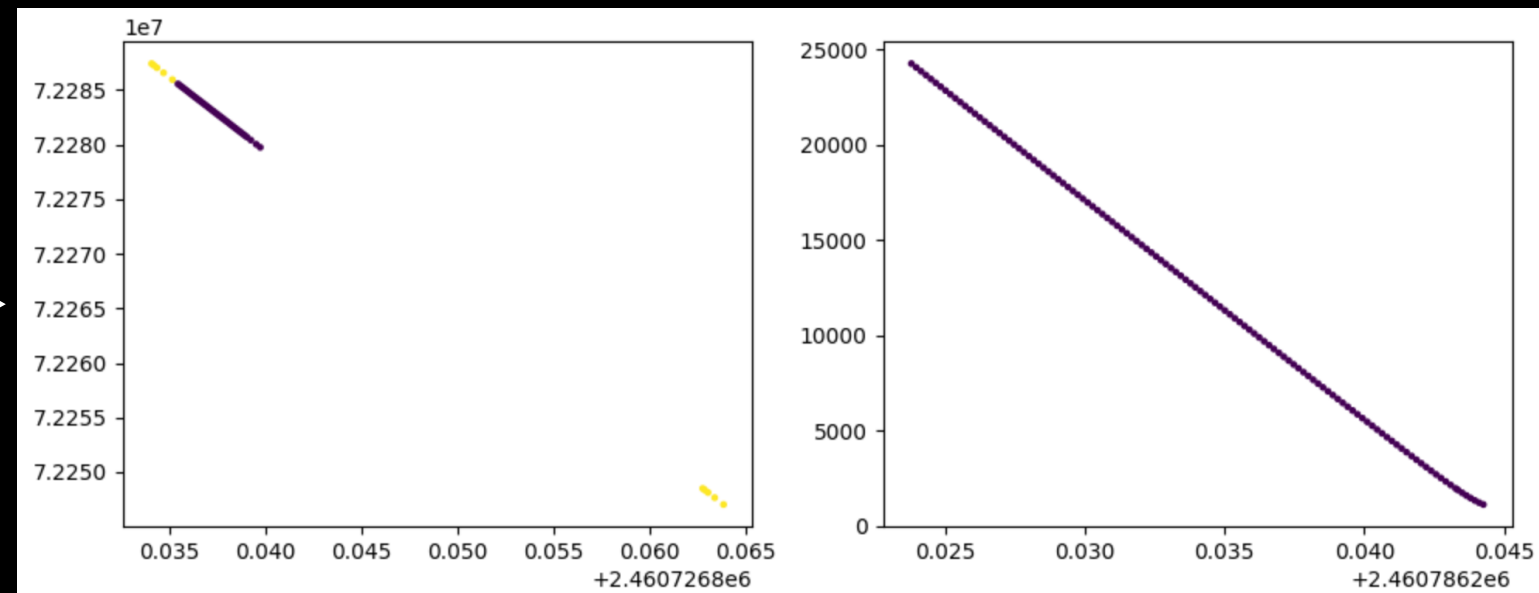
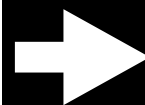
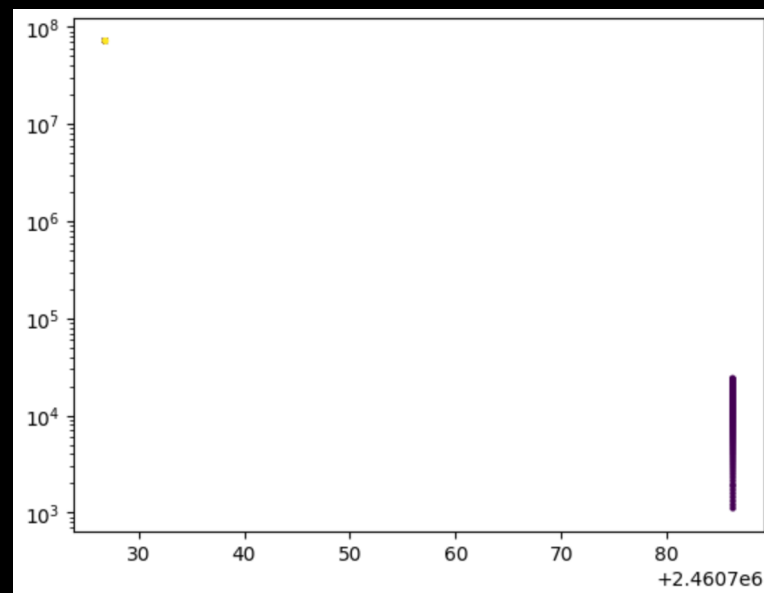
```
HISTORY    Main image: Radiance (uW/cm^2/nm/sr)
HISTORY    Extension 1: Bad Pixel Map, where
HISTORY      0=good, 1=bad, 2=saturated, 3=nonlinear, 4=zero (under bias level)
HISTORY    Extension 2: Radiance error (uW/cm^2/nm/sr)
HISTORY    Extension 3: I/F (unitless)
HISTORY    Extension 4: I/F error (unitless)
UNITS      = 'uW/cm^2/nm/sr'      /
```

Overview

Data Sanity Check

- Confirmed:
 - The WCS information appears to be properly registered, and I was able to create a target-centered flyby movie using the header data without any issues.

Distance (s/c to target)



Julian Date

Julian Date

Overview

Data Sanity Check

- Confirmed:
 - The WCS information appears to be properly registered, and I was able to create a target-centered flyby movie using the header data without any issues.

