Images of Comet 9P/Tempel 1 from February to June 2005

Provider: B. Mueller

Reviewer: M.S.P. Kelley

Overview

- KPNO 2.1 m + CCD.
- R-band and HB filter set.
- Images of Tempel 1, standard stars, and instrument calibrations.

Calibration

- Both raw and reduced data are provided.
- Not all images can be calibrated, but most are bias and flat field corrected (CCD shutter issues noted in dataset.cat).
- Tables of conversions to flux density are provided.
 - (Lien) some *individual files* are not listed (dataset.cat needs to describe why).
- (Lien) FILTER_NAME should be names, rather than numbers (numbers belong in FILTER_NUMBER, if needed).

Targets

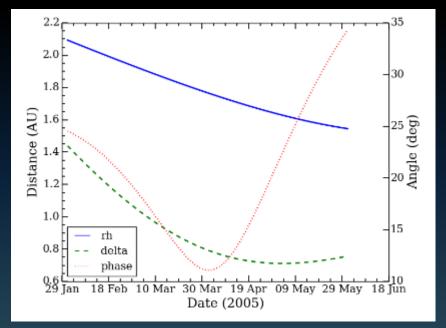
- Comet and star (x, y) positions provided in tables.
- 0-based indexing? (Lien?)
- (Lien) Bad star names in 2005_may15/sa_110 (easy fix).
- (Lien) Missing comet file from 2005_april09.

Data exercise

- Combine all comet images into two movies:
 - Remove image background.
 - Extract a sub-frame centered on the comet.
 - raw movie:
 - All images.
 - Linear scale from 0 to ~(comet max).
 - cal movie:
 - R-band images.
 - Log scale from 1e-11 to 1e-8 erg/s/cm2/Å/pixel.

Movies

Why the brightness variations?



• Background?

Seeing?

 Focus or tracking details that need to be noted?

13-14 Jan 2014

Summary

- Straightforward dataset with few critical liens.
 - Other liens and minor comments are noted in my review write up.
- I consider it certifiable.