

NH LORRI Data Review

NH-P-LORRI-2/3-PLUTO-V3.0

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Overall Assessment

- Excellent datasets as in previous deliveries
- Data labels contain all essential information for display and use the data, such as geometry keywords and orientation keywords, etc.
- Geometric parameters calculated from current SPICE data consistent with values in PDS labels
- PI change is not updated in all relevant document files

Summary Changes from v2.0

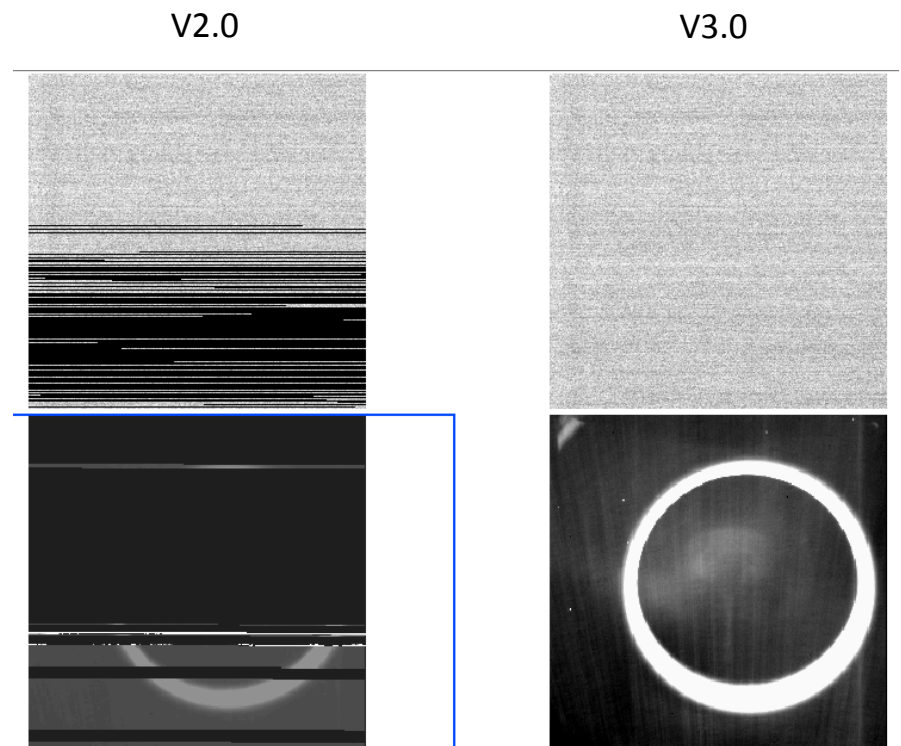
- Updated all version numbers in all related files
- catalog/ directory
 - lorri.cat: PI change from Andy Cheng to Hal Weaver
 - dataset.cat
 - STOP_TIME
 - Description for data included: All data, everything. New sequences included: Pluto departure, transition observations of KBOs and calibrated stars
 - Calibration changes, that typically change the headers but not the data values
 - Added list of new sequences
 - Mentioned LORRI PI change
 - Added Notes about the use of informal target names in FITS headers
 - Updated abstract
 - Updated TARGET_NAME list
- calib/ directory: No remarkable changes
- document/:
 - aareadme.txt: PI still listed as Andy Cheng
 - docinfo.txt: completion of some mission text
 - lorri_ge_plot.lbl: Added DESCRIPTION key
 - lorri_responsivity_plot: Added a pointer to the data for this plot
 - samples/ directory updated with new data
 - seg_lorri_pluto.tab: Added new sequences
 - ICD document file updated
- index/ changed accordingly

Inconsistency

- PI change is mentioned in dataset.cat and lorri.cat, but many other documents are not changed, such as aareadme.txt, document/aareadme.txt

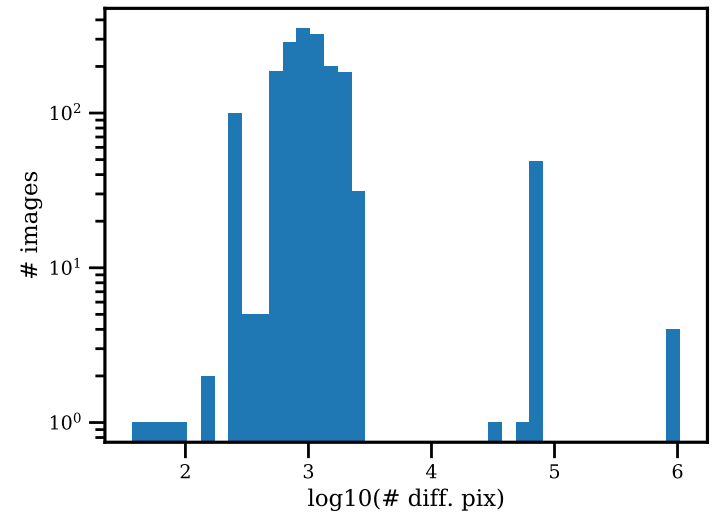
Difference between V2 and V3, Level 2

- v2 has 4234 images, v3 has 6812
 - 2578 new images
- 54 different for the 4234 images originally in v2
 - Random check on a few suggests to be the fix of missing data in the previous version.



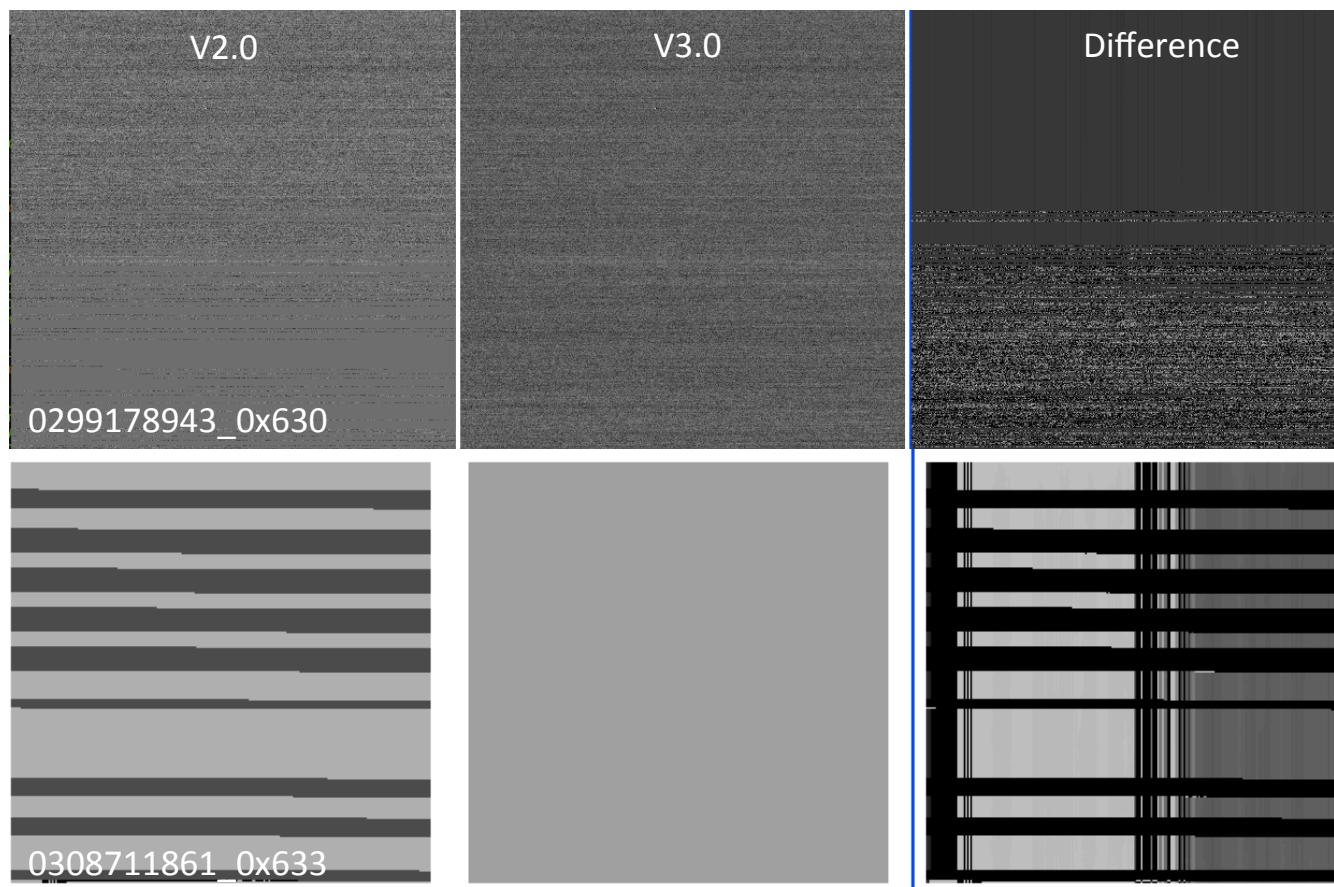
Difference between V2 and V3, Level 3

- 1735 images different, but mostly just small diff in a few 1000s pixels different



Difference between V2 and V3, Level 3

- 53 images has relative difference $>1e-3$
- Seems to be due to fix of missing data and improved calibration



Example Images

