

ATL02 Known Issues & Advisories List

Applicable Software Version: 001

Last Updated: May 18, 2019

ADVISORIES

- The algorithm window used for transmitter echo identification is 100ns wide. The DLB width of an exclusively TE-seeking band is ~170ns wide. Thus, when plotting the ground return photon cloud and filtering out the suspected TE returns, it may give the appearance of a thin, flat cloud with its middle 100ns portion missing. See ATL02 ATBD section 4.5.
- The `tof_flag` values incorporate information about the start centroid calculation as well as identifies if the return is a suspected TEP. See ATL02 ATBD sections 3.4.5 and 4.5 respectively.
- When plotting the return TOFs as a photon cloud, it is possible to see returns occurring outside the boundaries of the DLB. This is an expected behavior. See ATL02 ATBD section 3.8.5.
- The laser gives valid preamp voltage and current telemetry at energy level 0 and 6 or above. At levels 1 through 5, it gives 0 or previously valid stale values. See ATL02 ATBD section 8.4.

ISSUES

IssueID	001 - Calibration product(s) using incorrect toggle information
Release # When First Identified	001
Description	The version of CAL-49 used in release 001 has reversed the rising + falling skew corrections. The impact of this issue is that TEP histograms will be broadened by ~50ps.
Impact(s)	Documentation: ATL01 ATBD, ATL02 ATBD, ATL03 ATBD Product: ATL02, ATL03 Calibration: 17, 49
Notes	It will be corrected in version 002.
Status	Open

IssueID	002 – Documentation Missing for Groups
Release # When First Identified	001
Description	The following groups are not documented in the ATBD: <ul style="list-style-type: none">• <code>/atlas/housekeeping/time_at_the_tone</code>• <code>/atlas/pcex/background</code> Contents of group has been verified and are as expected.
Impact(s)	Documentation: ATL02 ATBD Product: N/A Calibration: N/A
Notes	This is a documentation issue and will be corrected with the next release.
Status	Open

IssueID	003 – Improper Temperature Reference for CAL-54 Selection
Release # When First Identified	001
Description	In the ATL02 ATBD as well as in the ASAS production code, the laser optics radiator temperature is called out for use with CAL-54 when computing transmitted energy from LRS laser spot magnitudes. According to the CAL-54 CPD, CAL-54 was derived using “APID 1120, A_LRS_HK, ANALOGHK channel 33, LRS Laser Detector Card Thermistor”. This appears in ATL01 as <code>/lrs/hk 1120/raw ldc t</code> .

Impact(s)	Documentation: ATL02 ATBD Product: ATL02 Calibration: N/A
Notes	The code and the documentation will be updated to match CAL-54 for the next release.
Status	Open