

Status of Level 0 and Level 1 Software for JPSS-1

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JPSS-1 Level 0 Software

- RT-STPS v5.8 (released August 2016) from NASA DRL supports creation of Raw Data Record (RDR) files in HDF5 format for JPSS-1.
- Has been tested with JPSS-1 spacecraft level test data; some issues with packet trackers were identified.
- These issues are fixed by either (a) DRL fixes, or (b) patches developed by SSEC.

JPSS-1 Level 1 Software (1/3)

Overview

- CSPP Sensor Data Record (SDR) version 3.0 will support ATMS, CrIS, and VIIRS SDR processing for both SNPP and JPSS-1 (one package supporting both satellites).
- CSPP SDR v3.0 will be based on ADL Block 2.0.
- CentOS 6.8 x86_64 operating system will be required (no change from current CSPP SDR).
- Computer hardware and memory requirements will be very similar to CSPP SDR v2.2.

JPSS-1 Level 1 Software (2/3)

Implementation Details

- Multiple versions of ADL Block 2.0 SDR software have been built and tested at SSEC since spring 2016.
- There are some changes in the underlying architecture of the ADL software, but these can be hidden by the CSPP infrastructure so that they are not visible to the end user.
- Reduced spectral resolution CrIS SDR will be the default product for SNPP.
- Full spectral resolution CrIS SDR will be the default product for JPSS-1.

JPSS-1 Level 1 Software (3/3)

Current Status

- ADL Block 2.0 v23 has been built and tested at SSEC using DB data (VIIRS, CrIS, ATMS).
- SSEC is completing testing with JPSS-1 spacecraft data.
- Goal is to have a beta version of CSPP SDR v3.0 ready for testing by the end of 2016.
- Funding for CSPP is provided by JPSS; it is a Level 1 requirement for JPSS to provide software to the community. Continued funding for CSPP is therefore assured.