Direct Broadcast Software Packages

ITWG Technical Subgroup

ITSC-18 Toulouse, March 2012

INTERNATIONAL
ATOVS
WORKING GROUP

Group Charter

1. Discuss issues related to real-time processing of direct broadcast data from polar orbiting meteorological satellites including MetOp, POES, EOS, JPSS, FY-1/3, Meteor, GCOM

2. Cover all platforms and sensors including sounders (infrared and microwave) <u>and</u> imagers

3. Not a forum to discuss science and algorithms; instead the group will work on the issues which allow the ITWG community of DB users to do science

Topics of Interest

1. Forum for discussion of DB processing packages (AAPP, IAPP, IMAPP, IPOPP, CSPP, and associated packages/utilities)
   - Advertise new features and versions
   - Discuss bugs, problems, feature requests
   - Provide feedback to package developers
2. Provide information to the ITWG DB community on the transition from current polar orbiters (e.g., POES, Terra, Aqua) to new/future missions (e.g., MetOp, NPP, JPSS, Fengyun, GCOM)

DB Software Packages

Review available software packages and versions (e.g., AAPP, IAPP, IMAPP, CSPP…)

Ensure L1B calibration algorithms and LUTs are up to date and *used* by the DB community

Discuss products planned for release or desired by the DB community

Provide mechanism for algorithms developed in the DB community to be packaged and released

Transmit recommendations to package developers on output formats (e.g., BUFR) for ingest into assimilation systems

Understanding and preparing for future systems (e.g., FY-3, NPP, JPSS)

Action Items

1. Group to draft a report titled "Direct Broadcast Processing Packages For Terra, Aqua, MetOp, FY, POES, and NPP: Status And Future Plans" for presentation to the ITWG.
Status: Report presented to ITWG.

2. AAPP team to add support for processing NPP ATMS and CrIS data.
Status: NPP support added in AAPP v7.

3. JPSS project to continue supporting development of DB software for NPP.
Status: CSPP beta testing is underway at multiple ITWG member agencies.

4. Kathy S. and Nigel A. to draft a requirements document describing the needs of the DB atmosphere community for visualization of DB products.
Status: No activity yet.

New Developments

1. FY-3B launch Nov 2010; DB operational (FY-3A DB only over China)

2. FY-3 DB Level 1 software update from NSMC Jan 2012

3. Suomi NPP launch Oct 2011; DB operational Feb 2012

4. CSPP software beta release Dec 2011 and Mar 2012 (public release expected April 2012)

5. AAPP version 7 released. Adds support for Suomi NPP CrIS and ATMS processing