The Global Impact of 10+ Years of IMAPP
Software in Support of Aqua and Terra

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Atmosphere Products

Utilities

Atmosphere and Polar Products

10 workshops taught on 5 continents

IMAPP Forum:
Reach out to Find the Needs of the Community

Needs of Users are
CSPP (Community Satellite Processing Package) since 2011
IMAPP (International MODIS/AIRS Processing Package) since 2011
ITPP (International ATOVS Processing Package) since 1998

Build Upon Experience

Air Quality Forecasting Products

- Software Standards
  - Software must be robust, portable, efficient and reliable
  - Software must have high scientific integrity – include peer reviewed references
  - Software must be thoroughly tested prior to release
  - IMAPP has Beta testers on 6 continents
  - All Packages must be well documented

Collaborations

- Work with Other Groups in their Areas of Expertise
  - NASA Jet Propulsion Laboratory
  - NASA Ocean Biology Group
  - Boston University BRDF Group
  - UK Met Office
  - Australia Bureau of Meteorology
  - Taiwan Central Weather Bureau
  - South Africa CSIR
  - NOAA Cryosphere Scientist Jeff Key

Cost and Good Quality of the Aqua and Terra Data

Free Distribution of Data, Software and Visualization Tools

Result is explosion in the use of the data!

Future Enhancements

Current Funding Through 2013

- Updated MODIS Level 2 Atmosphere Software
  - Collection 6 Algorithms
  - AIRQ Forecasting using AIRS retrievals
  - Additional Projections Available
  - Additional Output Parameters: Update to IMAPP Virtual Appliance
  - Add Multi-node processing capability
  - MODIS Physical Retrieval

Supplementing the MOD07 statistical retrieval of vertical profiles of temperature and moisture over the next 48 hours

Build Upon Experience

- More than 5 Years of Support for Direct Broadcast Users
  - IAPP (International TDVS Processing Package) since 1985
  - ITPP (International ATOVS Processing Package) since 1998
  - IMAPP (International MODIS/AIRS Processing Package) since 2000
  - CSPP (Community Satellite Processing Package) since 2011

The goal is to allow DB users the capability to create their own local products for local applications.

Needs of Users are THE Priority

Build Upon Experience

- Easy way to find and meet the needs of the Community
- Workshops:
  - http://cimss.ssec.wisc.edu/dbts/
- Site Visits Including:
  - US Weather Service Forecast Offices and Regional Headquarters
  - NOAA EDRS and reprocessed reflectance Image Products
  - True color GeoTIFF and KML
  - NDBRDF-adjusted reflectance Image Products

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