

# The Development of Polar Orbiting Satellite Processing Packages in Support of International Direct Broadcast Community

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## • IMAPP (International MODIS/AIRS Processing Package):

- L0 to L1 & L1 to L2 for MODIS, AIRS/AMSU, & AMSR-E
- Used by more than 1600 users in 70 countries
- Infusing Satellite Data into Environmental Applications – International (IDEA-I) released in June 2012 for regional Air Quality Forecasts
- Products distributed to more than 59 NWS forecast offices in real time, supporting:
  - Fire Weather Forecasting (NDVI, Surface Temperature, Visible bands)
  - Fog and Visibility forecasting (Fog Product)
  - Precipitation forecasting (TPW product)
  - Temperature Forecasting (SST, Surface Temperature)
  - Severe Weather Damage Analysis (NDVI, True Color)
  - Turbulence (WV Band Mountain Wave Identification)
  - Snow/Ice extent, blowing dust, blowing smoke (True Color Imagery)
  - Space Shuttle Weather Forecasting

## • CSPP (Community Satellite Processing Package):

- 1<sup>st</sup> release (March, 2012) just a few months after launch of Suomi NPP
- VIIRS, ATMS and CrIS calibration and geolocation software (Raw Data Records (RDRs) to Science Data Records (SDRs));
- VIIRS Cloud Mask and Active Fires Environmental Data Records (EDRs);
- VIIRS SDR reprojection software for the creation of GeoTIFFs and/or AWIPS NetCDF files;
- CrIS, AIRS and IASI University of Wisconsin dual regression single Field-of-View (FOV) Temperature, Moisture, Surface and Cloud Retrieval Environmental Data Record (EDR).

<http://cimss.ssec.wisc.edu/imapp/>

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