

Validation and Maintenance of ABI Shortwave Radiation Budget Algorithm

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Visualization and validation tools have been updated to monitor and validate the ABI Shortwave Radiation Budget (SRB) retrieval products. Version 2 software was expanded with object graphic display on top of the developed IDL graphic interface, which improved the flexibility and functionalities of the visualization of retrieval products. Validation of ABI SRB retrievals with proxy MODIS data was extended to the year 2011 over the Surface Radiation (SURFRAD) network stations, and comparison with ground and TOA measurements showed that the accuracy and precision of retrieved downward shortwave radiation at surface (DSR) and reflected shortwave radiation at TOA (RSR) meet the requirements. A maintenance version of ABI SRB algorithm was prepared with minor revisions to the retrieval section, while a package for preparing gridded inputs was also incorporated. The concept of real-time monitoring and validation has been realized with the current GOES Surface and Insolation Product (GSIP), results of this activity will also be presented in this poster.