Development of the IASI Near Real-Time Operational Product Processing System


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The NOAA/NESDIS/STAR IASI product processing system is being tested and prepared for delivery to operations. This system will ingest near-real time IASI level 1C data from EUMETSAT as well as AVHRR, AMSU-A and MHS orbital data from NOAA/NESDIS/OSDPD. These data will be used to produce spatial and spectral subsets of the IASI level 1C radiances and NOAA unique products such as principal components, reconstructed radiances, cloud-cleared radiances and trace gas profiles. These data will be made available in BUFR and netCDF format to NWP (Numerical Weather Prediction) centers in the United States through the NOAA/NESDIS/ESPC data distribution server. The system also produces a set of gridded and binary data sets which are used internally for near-real time monitoring, product validation, and reprocessing. The EUMETSAT level 1C and NOAA unique products will be archived to NOAA/NESDIS/CLASS. In preparation for the ingestion of the actual data, a simulation system is currently providing pseudo near-real time IASI, AMSU-A, and MHS data for system testing and code refinement. This will speed the transition of the system into near real-time operations when the actual data are made available.
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