CONSTRUCTION OF AQUA LEVEL-2 PROCESSOR

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Abstract : We have constructed a level-2 data processor for the Advanced Microwave Scanning Radiometer for Earth Observation System (AMSR-E) onboard the EOS-PM satellite, Aqua. Our system is based on the Delivered Algorithm Package (DAP) distributed by the National Snow and Ice Data Center (NSIDC), USA. Our contribution is to modify the algorithm to produce level 2 products for the limited 6-minute pass file received by local ground stations. These generated products are to be compared with the products provided by NSIDC. We also constructed a user-friendly environment for automatic processing, where the level 1 data are processed to level 2 data, some of ocean and rain parameters are converted to GRIB2 data which is the standard digital format of Korea Meteorological Administration (KMA). The converted GRIB2 data contain near sea surface wind speed and rain rate, which are used for intercomparison with the in-situ measurement from KMA.