

Daytime Cloud Optical and Microphysical Parameters (DCOMP) for GOES-ABI and VIIRS

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The Advanced Baseline Imager (ABI) onboard the future GOES-R satellite is a multispectral infrared radiometer. Current plans call for *GOES-R* to be *launched* in late 2015. The ABI is designed to measure emitted and solar reflected radiance simultaneously in all 16 spectral channels at a high spatial resolution (0.5 ~ 2km) to provide amongst others radiometric information of microphysical cloud parameters. The cloud algorithm working group at CIMSS developed the algorithm to retrieve Cloud Optical Thickness, Effective Particle Size and Cloud Water Path. The currently launched sensor VIIRS onboard Soumi NPP has similar channel characterizations and provides for the first time GOES-ABI like measurements in the 2.2 micron channel. This gives us the opportunity to validate the planned GOES-ABI algorithm channel settings. We will present several regional and global analysis and validation studies of DCOMP products from VIIRS.