S04-4

The Advancement of Community Based LEO and GEO Satellite Processing and Applications Packages

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In cooperation with the NOAA Suomi NPP/JPSS, NASA EOS Terra/Aqua, and NOAA GOES-R program, SSEC/CIMSS continues to leverage and expand International MODIS/AIRS Processing Package (IMAPP) effort, and to facilitate the use of international Low Earth Orbit (LEO) and Geostationary Earth Orbit (GEO) satellite data through the development of a unified Community Satellite Processing Package (CSPP) to support the Suomi NPP, JPSS, METOP series, and the GOES-R geostationary meteorological and environmental satellites for the global weather and environmental user community.

Main emphasis of this presentation is to report several ongoing projects, such as 1) status of CSPP LEO for VIIRS, CrIS/ATMS SDR/EDR, 2) status of CSPP GEO for GOES GVAR and GOES-R GRB, 3) Innovative Satellite Enhancement Exploration (ISEE), and 4) high performance computing for accelerated NWP forecasts, to advance CSPP towards facilitating enhanced LEO/GEO satellite processing and applications.