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CSPP Geo: Free Software for creating products from Himawari and GOES-R satellites

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The Community Satellite Processing Package for Geostationary satellites (CSPP Geo) project creates free software to process data directly from the GOES-R series and other geostationary satellites, including Himawari-8/9.   Software packages are available for users interested in creating a suite of Level 2 products from the Advanced Himawari Imager (AHI) on Himawari-8/9 as well as the Advanced Baseline Imager (ABI) and Geostationary Lightning Mapper (GLM) from all GOES-R series instruments. Additionally, users who are within the footprint of the GOES-East or GOES-West satellite can set up an antenna and processing system, and by running CSPP Geo software can generate products from all GOES-R series instruments (Advanced Baseline Imager (ABI), Geostationary Lightning Mapper (GLM) and space weather instruments) at full spatial and temporal resolution. The design of the GOES Rebroadcast (GRB) data stream allows for very low latency (typically data arrives on the user system seconds after observation time), and very high reliability.

In addition to creating products, the CSPP Geo project develops other software packages and tools, including a package that creates high quality single band, Red/Green/Blue (RGB), and satellite product image files easily and efficiently from several geostationary satellites.   This presentation will include an overview of the CSPP Geo project and available software, as well as recent developments and future plans.