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Using Himawari-8 to Prepare Algorithms for GOES-R

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The Algorithm Scientific Software Integration and System Transition Team (ASSISTT) at STAR maintain and update the STAR Algorithm Processing Framework (SAPF), a data processing framework initially used for the GOES-R Algorithm Working Group's (AWG) data processing. This system provides an environment for algorithm development and testing along with the ability to process multiple algorithms in sequence with product precedence. Most of the GOES-R AWG algorithms have already been modified to process different satellite datasets as well as simulated data. The data from the Advanced Himawari Imager (AHI) on board the Himawari-8 satellite has been added to SAPF since it is a close proxy of the GOES-R Advanced Baseline Imager (ABI) instrument. This presentation describes the efforts to enable the AWG cloud and aerosol algorithms in SAPF for AHI data, including both the GOES-R baseline version algorithms developed by the AWG and the updated version used to create Visible Infrared Imaging Radiometer Suite (VIIRS) products. Updates to SAPF and the AWG algorithms along with sample results will be shown. Testing these algorithms with AHI data will provide a preview of the science data products that can be anticipated from the ABI itself.