

The Satellite Analysis Branch Hazard Mitigation Programs and Preparing for the GOES-R and JPSS Future

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The Satellite Analysis Branch (SAB) produces and distributes a wide variety of operational hazard mitigation products to the user community for use in operations, research, validation and verification. The programs associated with these products include a precipitation analysis and estimation, tropical position and intensity classification, volcanic ash tracking, oil detection and smoke and fire detection. This presentation will focus on hazard and disaster detection, product generation and how SAB as a user is getting ready for the GOES-R and JPSS era.

Satellite analysts in SAB have expertise in satellite meteorology. They conduct satellite analyses using data from NOAA's Geostationary Operational Environmental Satellites (GOES), Polar Orbiting Environmental Satellites (POES), also, NASA's Moderate Resolution Imaging Spectroradiometer (MODIS) and other high resolution satellite constellations to provide hazard mitigation products on a 24/7 daily basis. Hazard mitigation products are time sensitive and SAB users depend on the information provided to be of highest quality. SAB continues to improve each program and suite of related products with the help of user input and new satellite techniques.

The GOES-R and JPSS Proving Grounds provide an opportunity for looking at the future of satellite data. SAB analyst must be ready for the large amounts of satellite imagery, numerous new products and be able to use them in order to provide better hazard mitigation products to their users. In the GOES-R Proving Grounds, the GOES "Satellite Champion" is playing an important role in helping SAB get ready for the future by facilitating their needs to the developer and training them with GOES-R simulated products. Hopefully, it will provide SAB a small glimpse of the future of satellite imagery.