



NOAA NWS Satellite Readiness

Project Highlights

Task Areas

- Requirements Support
- Remote Sensing Science
- Applications Support
- Systems Engineering, Planning, and Coordination
- Communication, Documentation, and Outreach

Benefits to NOAA

- 30+ years at NOAA and NASA
- Highly specialized workforce of engineering, technical, and scientific experts
- Capabilities in meteorology, science algorithms, software engineering, scientific outreach, systems engineering, and satellite communications
- Work with NOAA's major satellite programs including JPSS and GOES

GST Support for NWS Satellite Readiness

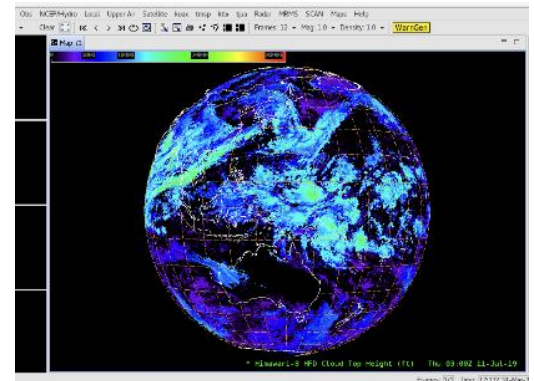
GST works with NOAA's National Weather Service (NWS) Office of Observations (OBS) in providing NWS forecasters and modelers with satellite data, products, and information they need to ensure that the United States is a *Weather Ready Nation*. We provide requirements management, systems engineering, software development, maintenance, implementation, and sustainment, as well as user engagement and outreach, communications, task management, and planning.

Remote Sensing Science and Related Subject Matter Expertise: GST leads and coordinates the infusion and use of satellite data in NWS. This includes preparing technical summaries and conducting remote sensing assessments, such as analysis of alternatives, courses of action, and tradeoffs, all with supporting documentation and references. We provide subject matter experts in remote sensing, data analytics, and meteorology.

Applications Support: GST engineers devise, test, verify, and deploy configurations and data manipulations to deliver satellite data products to field sites and ingest and display them in Advanced Weather Interactive Processing System (AWIPS). We implement new L2+ space weather products; develop methods for anomaly/error tracking and streamline testing and deployment of L2+ algorithm packages into the Satellite Product Analysis and Distribution Enterprise System (SPADES).

Systems Engineering, Planning, and Coordination: GST provides technical and administrative support to the operational release of satellite data products and their integration into AWIPS systems. To this end, GST sustains an effective dialogue between satellite programs, remote sensing science teams, data management and dissemination activities, and end users in NWS Weather Forecast Offices, River Forecast Centers, and National Centers devoted to Aviation Weather, Hurricanes, Ocean Prediction, and others.

Documentation/Communication/Outreach: GST ensures that coordinated information flows quickly between NWS and its stakeholders, and that data products and capabilities are well documented on NOAA's Virtual Lab (VLab) Web portal. We publish a monthly newsletter with over 650 readers and convene quarterly briefings summarizing recent and upcoming activities and changes to data products and service capabilities.



AWIPS Himawari cloud top image