



GLOBAL SCIENCE & TECHNOLOGY, INC.

INSIGHT Product

WAFS-METLAB2™ and BriefNet™: Weather Workstations for the Global Market Professional Weather Tools for Meteorology, Aviation, and Product Generation

WAFS-METLAB2™ is an exciting way to visualize and process weather information. The WAFS-METLAB2™ workstation is independent of any data source and can be installed standalone or used in a client/server configuration. The workstation integrates many sources of government and commercially-available data, including World Area Forecast System (WAFS), Global Telecommunication System (GTS), and Aircraft Fixed Telecommunication Network (AFTN). The workstation also can ingest data from Automated Weather Observing System (AWOS) networks and GeoNetCast-Americas (GNC-A).

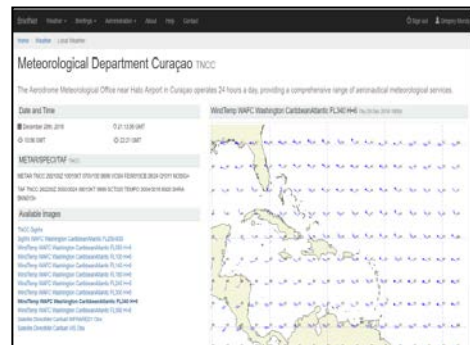
WAFS-METLAB2™ is built with a robust data collection module that acquires WAFS data (WIFS, GIFS, SADIS) from file servers. Modules include alphanumeric data, numerical models, DIFAX, SigWx, time series, time profile, thermodynamic profile, and vertical cross-sections. Optional modules are added for satellite, radar, and lightning. The workstation has functionality for overlays, folders, draw, alerts, print, and animation to visualize finished products.

BriefNet™ is a companion subsystem added to WAFS-METLAB2™ for automatic chart production, web access, and web briefings. BriefNet™ is the data processing and production engine that serves in-house analysis and then extends it to external users via internet access. BriefNet™ also includes a module for on-demand production of flight folders or general briefings, which can be disseminated via the internet for remote users.

WAFS-METLAB2™



BriefNet™



The flexibility and ease of its use supports a wide range of weather professionals in the commercial, government, and military markets by alerting users to warning conditions or the arrival of warning bulletins such as volcanic ash or hurricane. Meteorology professionals use WAFS-METLAB2™ for detailed data integration as well as for defining areas of interest to trigger alerts upon data arrival.

Users can create side-by-side comparisons of data products and then easily switch to alternate views that contain auto-updating product windows. Users can quickly change window configurations for different sector views as well as monitor conditions and imagery with automatic data updates. The emphasis on automatic product updating in display windows aids in monitoring changes in weather or flight conditions. Users can also personalize alerts and alarms (via a popup dialog box) upon the receipt of text bulletins (such as tsunamis, volcano, and hurricane). Defined conditions, such as the ability to specify an area of interest for parameter values to trigger alert conditions, can also be set to alert the user. Users can create custom startup profiles of the products they wish to view upon starting WAFS-METLAB2™, including the capability to establish multilayer overlays or views of specific geographical areas with the click of a mouse. Several user profiles can be created, saved, and reloaded at any time. This personalizes WAFS-METLAB2™ for specific forecaster tasks.

The workstation includes a comprehensive macro facility for customized overlays of the different data input. The GRIBbed Binary (GRIB) generator (GRIBGEN) produces additional derived parameters beyond those included in the traditional GRIB datasets.

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