

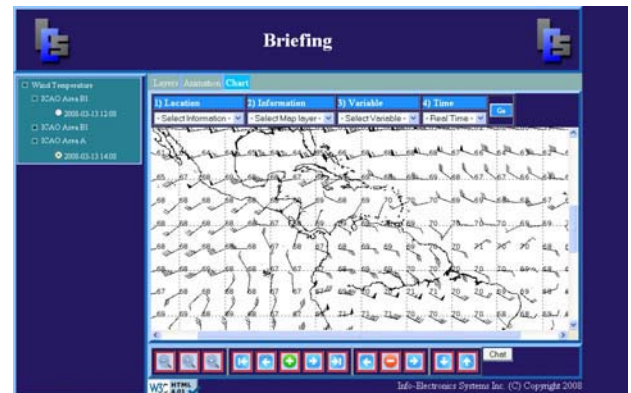
ABOUT THE SYSTEM

The **Web Weather Briefing** Application is:

- A powerful Web-based **Geographical Information System (GIS)** using the Open Geospatial Consortium (OGC) standard for Web Map Service (WMS).
- Designed to present weather information in a graphical format on a geographic map background.
- A Web-based application (zero footprint client interfaces).
- World Wide Web Consortium W3C compliant.
- A visualization tool which can display various types of geographical data. It can also interface with ULTIMA (powerful WAFS server application) and can handle meteorological data from other sources as well.
- Able to generate alarms and warnings on verification of specific weather conditions that have been predefined on the system.

The **objective** of the system is to display weather information in a dynamic manner so that users get access and display real-time data on the area of interest.

The application also offers a live communication tool for chat and discussion where the operator (meteorologist) can support the client and clarify the weather information that the client would have on their Web page.



GRAPHICAL INFORMATION DISPLAY

- **Information Layers**
 - Satellite image background
 - Topography, Geography, Geopolitical boundaries, Hydrological network
 - Cities/Airports/Weather stations
 - Flight Information Regions Layer
 - Customized background (Power distribution grid, location of sensitive facilities, etc.)
- **Functionalities**
 - Zoom/unzoom, Pan
 - Animation on satellite images, radar images and/or lightning strikes



- Display of more/less information depending upon the level of the zoom, such as more airports, more cities and more lat/long lines, etc.
- Layer display order control (e.g.: geography should be on the top)

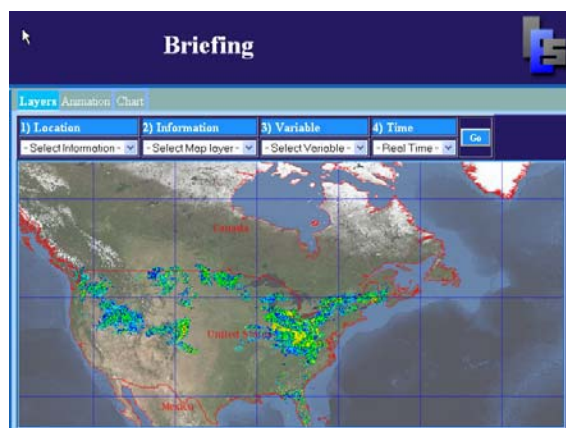
• Display of Weather Observation

- Temperature (value), Wind (wind barbs), Sky cover (symbols/images), Precipitation information (symbols/images)
- Raw bulletin: SYNOP, TAF or METAR, SIGMET (text box on a mouse-click)
- Color coded display of METARS and TAF
- SIGMET area and symbol on graphical interface
- Lightning data
- Satellite images
- Radar images



• Display of Weather Forecast

- Gridded Wind and Temperature (wind barbs/values)
- Contours and filled contours charts
- Significant Weather Charts



DECISION SUPPORT SYSTEM

• Chat for Client Support

- Log in for chat session (account/password)
- Private chat (One to one)
- Public chat (One to All)
- Save chat log
- Board sharing for graphical drawing/annotation on weather charts background

• Event generation on information analysis

- Alarm/Alert generation on severe weather conditions for customer defined location or area
- Alarm level customization

• Warning on Specific Weather Conditions

- Management of warning announcements (audio and visual)



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