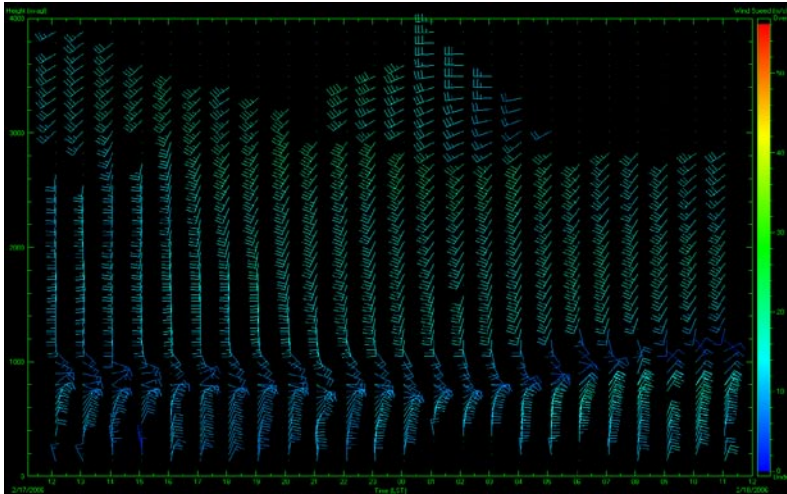


Vaisala Wind Profiler Meteorological Display Software GraphXM™



Benefits

- Automatic creation of graphics for Web pages
- Diagnosing wind flows for forecasting and for boundary layer analyses
- Detecting temperature inversions

Graphical Display Software

The Vaisala GraphXM™ software allows users to easily display, monitor, and perform quality control editing of wind and virtual temperature (Tv) data obtained from the LAP® family of radar wind profilers.

GraphXM™ ingests wind and Tv data from the LAP-XM™ database or proprietary format data files. GraphXM™ provides several data display schemes including wind barb, wind vector, vertical profile, and color contour displays. It includes a text display option that shows a listing of heights and data points for a selected profile.

GraphXM™ allows users to monitor data in real time using the Auto-Update feature which automatically loads the latest available data from radar wind profilers.

GraphXM™ also has a built-in editing feature that allows users to perform manual quality control editing of wind and Tv data. Users may edit individual data points or groups of data by removing outliers before it is used for analysis. Users can use password protection to restrict who edits the data and save a log file of the changes made during the editing process.

GraphXM™ can create Web-ready images in bitmap and GIF formats. It can also run in batch mode to automatically generate images and displays.

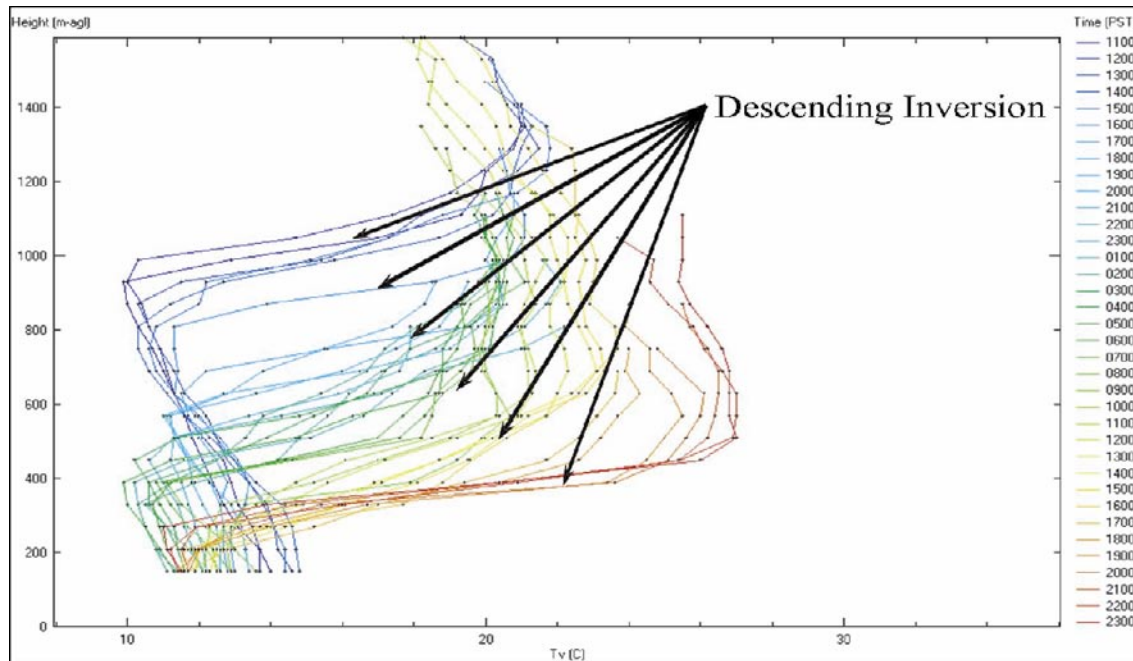
Software Features

- Creates wind barb and wind vector displays
- Creates vertical profile displays
- Creates contour display of winds, Tv, signal-to-noise ratio, and radial velocity
- Opens and displays wind and Tv data from the LAP-XM® database or proprietary format data files
- Includes ability to edit data with the click of a mouse and save changes to the database or file
- Creates bitmap and GIF images
- Saves output to text files
- Runs in batch mode using command lines for full automation
- Runs in Auto-Update mode allowing open displays to be continuously updated. If data are not received within the user-specified frequency, a data warning will be displayed

Technical Data

Hardware requirements

Operating system	Microsoft Windows® 2000 or XP
Processor	Pentium IV, min 1 GHz
RAM	128 MB minimum
Hard drive space	10 MB minimum
Color depth	256 color VGA
Resolution	(640 x 480) resolution or better XGA (1024 x 768) or better



Graph-XM™ may be used to monitor boundary layer evolution and structure for air quality and meteorological applications using vertical profiles of virtual temperature. In this case, a descending inversion lowers from 1000 m to 300 m in 36 hours. This inversion reduced vertical mixing and was an important factor for air quality applications.



Software was developed by STI for distribution by Vaisala



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