

Weather Sentinel

The new and improved weather analysis and visualization tool from Trinnovations. This cutting edge software allows users to effectively visualize predicted, real-time, and historical weather data in AGI's Satellite Tool Kit (STK).

Features

- Reporting Tools
- Vehicle Path Visualization
- 2D Visualization
- Assisted Weather Data Download
- 3D Visualization
- Weather Data Management

Uses

- plan missions
- be effective in operations
- build antennas and sensors optimized for their region of use
- discover the weakness of current sensors and antennas
- minimize clouds in satellite imaging



Weather
Sentinel™

Weather. It affects everything.



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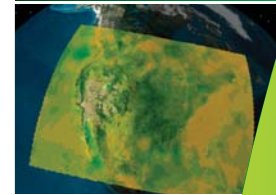


Contact Us

Trinnovations

42108 Roick Drive, Suite A
Temecula, CA 92590
Phone: 951.719.3787
Fax: 951.719.3749
Email: weather@trinnovations.com
Web: www.trinnovations.com

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What's new?

version
2

Increased file compatibility

Regardless of the weather data file you may have, Weather Sentinel (WS) can support it. WS now supports all of the following file formats:

- GRIB (GRIdded Binary) - Versions 1 & 2
- WSR-88D (Doppler Radar - Level 1
- HDF format
- netCDF
- Shape file
- Weather Sentinel export
- Plain text

Easily automated weather downloads

Using the new download Wizard, users can set up live, automated weather downloads for cloud cover, Doppler radar, and wind vectors. This makes live, automated weather downloads as simple as a few clicks.

Greater visualization options

New visualization capabilities include 2D & 3D contour, in addition to the previous ability to view 2D & 3D cloud cover, vehicle paths, various altitudes, and the traditional flat weather map. Now users have the ability to set resolution for visualization, making it easier to set area targets to limit an area, and use separate multipliers to increase/decrease resolution (e.g., latitude, longitude, altitude, & time).

Larger variety of weather indicators

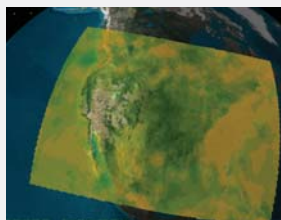
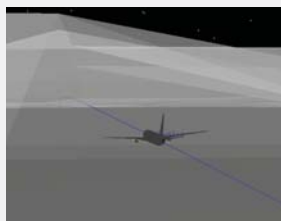
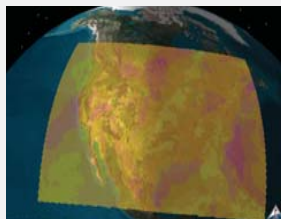
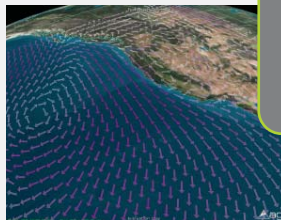
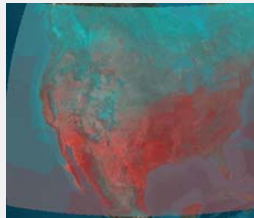
Weather savvy users can choose to use traditional weather indicators in their visualizations, which can include wind barbs, contours, isotherms, and isobars. Meanwhile, for those who may be less familiar with weather analysis, there are a variety of standard or default options for indicating weather.

Simple debugging tools

A read log is now created when weather is loaded into WS, which can be a great tool for debugging or finding missing weather data.

User-generated weather files

Create and edit your own weather files, guaranteeing that you are able to analyze the weather and area that is important for your project.



Do you have a weather solution to handle everything from line-of-sight to communications to force modeling or does it just do visualization?

Does your current weather solution interact with scenario objects (planes, trucks, facilities, etc.)?

Would weather be useful to include in your analyses?

Would it be useful to visualize weather in a 3D environment?

Are you interested in a multi-faceted weather tool that handles battle space management?

If you answered yes to any of these questions, then
Weather Sentinel is right for you!!

Comparison Chart

Choose the best Weather Sentinel edition for you:	Basic	Advanced	WeatherX*
2D Visualization	●	●	●
Object path visualization	○	○	○
Access calculations	●	●	●
Live Weather download	○	○	○
Read multiple weather file formats	●	●	●
Editable/custom weather	○	○	○
Import/export and merge weather files	●	●	●
Weather file search engine	○	○	○
Weather data management	●	●	●
Visualize missing data regions	○	○	○
Reporting tools	●	●	○
GUI interface	○	○	○
3D Visualization	○	●	○
Communication calculations	○	○	○

*WeatherX includes the engine behind Weather Sentinel, but does not include the GUI interface. This version is optimal for those wanting to integrate this application into their own tool.

Current Users

Analytical Graphics, Inc.
Northrop Grumman Air Combat Systems
RABA Technology Center
Raytheon

Scott Air Force Base
Space Data
US Army Strategic Command