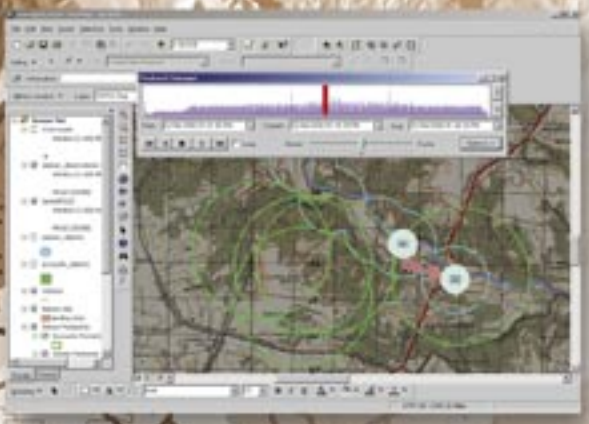


ArcGIS™ Tracking Analyst

Temporal Data Visualization and Analysis

ArcGIS™ ESRI

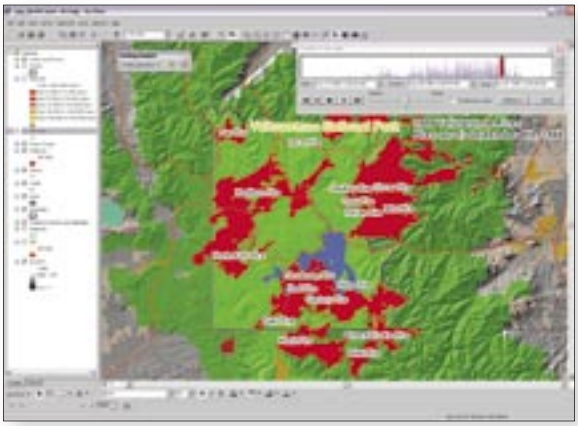
ArcGIS™ Tracking Analyst

Temporal Data Visualization and Analysis

The ESRI® ArcGIS™ Tracking Analyst extension enables you to visualize and analyze temporal data by defining events including time, location, and attribute information.

With ArcGIS Tracking Analyst you can explore, visualize, and analyze information relative to time, location, and change. ArcGIS Tracking Analyst provides capabilities for the sophisticated visualization and analysis of time-related data by defining temporal events that consist of the following information:

- Time: The date and time of the event
- Position: The geographic location of the event
- Attributes: Object-specific characteristics and properties



The Playback Manager permits rendering of historical data sets. Playback controls allow the user to rewind, stop, fast-forward, and play data in real time.

The Playback Manager's Continuous Loop setting recycles the playback to repeat data display. The Animation tool can save playback as an AVI video file or individual frames.

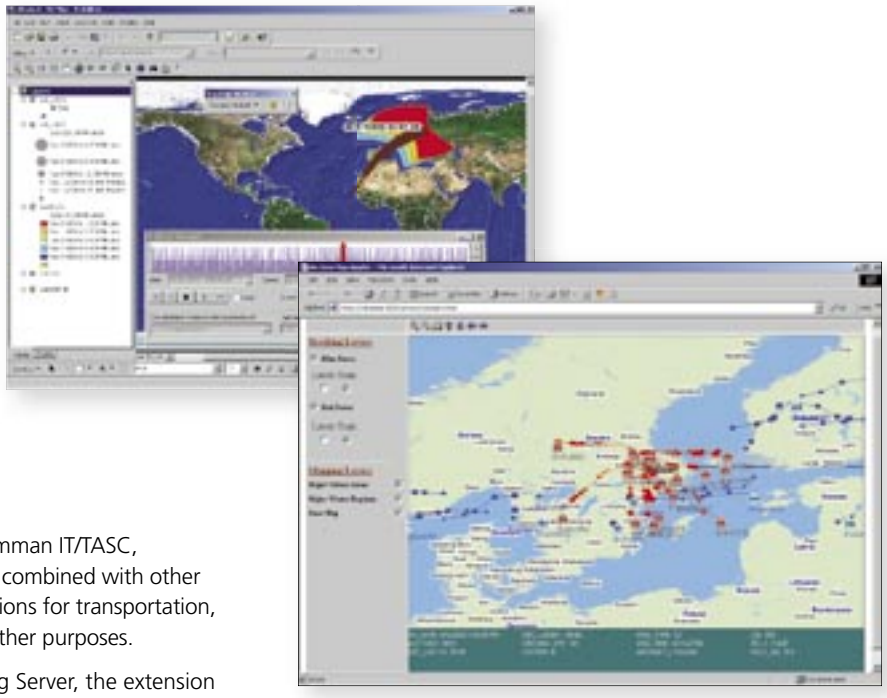
ArcGIS Tracking Analyst can display data types, including points, lines, polygons, and tracks, for historical or real-time data analysis (from connections to the ArcIMS® Tracking Server*). Users can record, play back, and conduct temporal analysis including data clock charting and temporal offset. Monitoring and analysis actions are available such as highlight, suppress, filter, and user-defined Visual Basic® (VB) scripts. Existing temporal data can be set with future time windows (for mission planning) or past time windows (for historical data).

The ArcGIS Tracking Analyst extension extends the range of functionality first released in the ArcView® 3.x Tracking Analyst extension. This new ArcGIS extension is compatible with existing ArcView Tracking Analyst data sets.

With ArcGIS Tracking Analyst You Can

- Display common data types temporally, including points, lines, polygons, and tracks, for historical or real-time data (from connections to the ArcIMS Tracking Server*).
- Apply layer-specific time windows to manage multiple temporal layers.
- Symbolize time by color, size, or shape to show the aging of data.
- Interactively play back time-related data.
- Apply actions to individual temporal layers based on attributes, location, or a combination of the two: highlight, suppress, or filter.
- Set temporal offset for comparisons of temporal events.
- Create animation files for AVI output.
- Create a data clock temporal chart for additional analysis.

Historical Satellite Point and Polygon Data in Playback

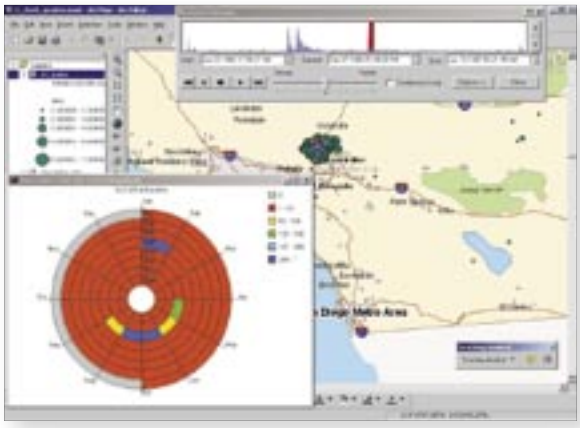


Track Data Fed to a Customized Internet Client

Potential Applications

Developed in conjunction with Northrop Grumman IT/TASC, ArcGIS Tracking Analyst can be used alone or combined with other ArcGIS extensions to create powerful applications for transportation, emergency response, military, and a host of other purposes.

Used in conjunction with the ArcIMS Tracking Server, the extension supports the display, management, and broadcast of real-time data over the Internet from GPS, custom data feeds, and similar technologies*.



Historical Earthquake Data in Southern California, Using the Tracking Analyst Data Clock

Developer Tools

The extension allows for complete customization by writing macros in Visual Basic for Applications (included with ArcGIS Desktop) or creating extensions for ArcGIS Desktop, developed in standard development environments (VB, C++, Delphi, etc.). The extension includes a tool set for system integrators and advanced users with more than 50 new ArcObjects™ components.

Supported Platforms

ArcGIS Tracking Analyst is available for Windows NT® 4.0, Windows® 2000, and Windows XP (Home Edition and Professional). ArcGIS Tracking Analyst requires ArcGIS 8.3 Desktop (ArcInfo™, ArcEditor™, or ArcView).

TRY ArcGIS Tracking Analyst

www.esri.com/trackinganalyst

* Check the ArcGIS Tracking Analyst Web page for availability of ArcIMS Tracking Server.

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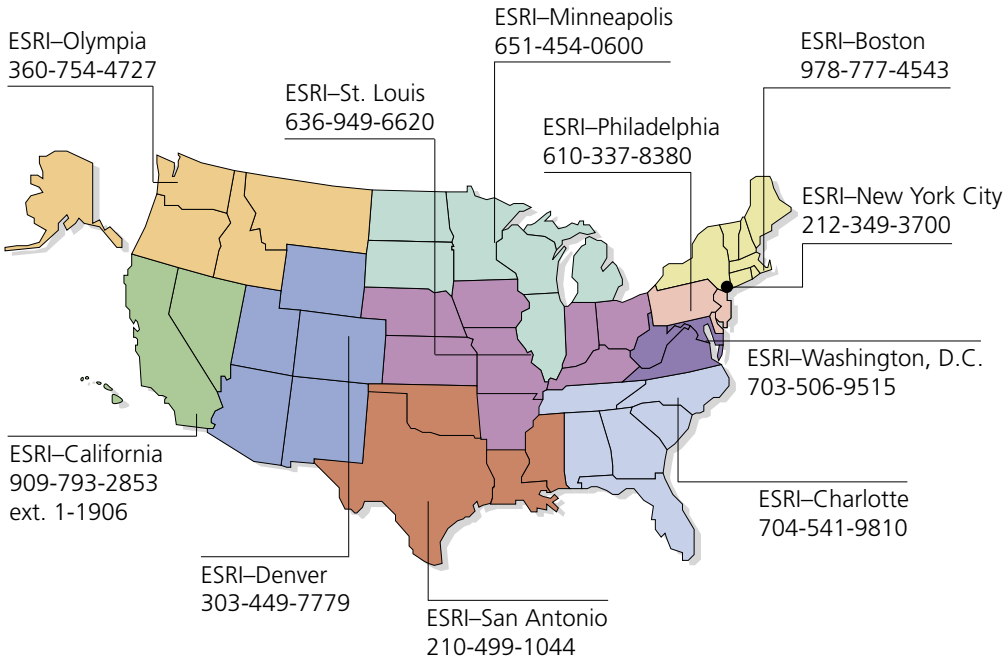

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