

Sandia National Laboratories

WAVE Data Analysis System Demo



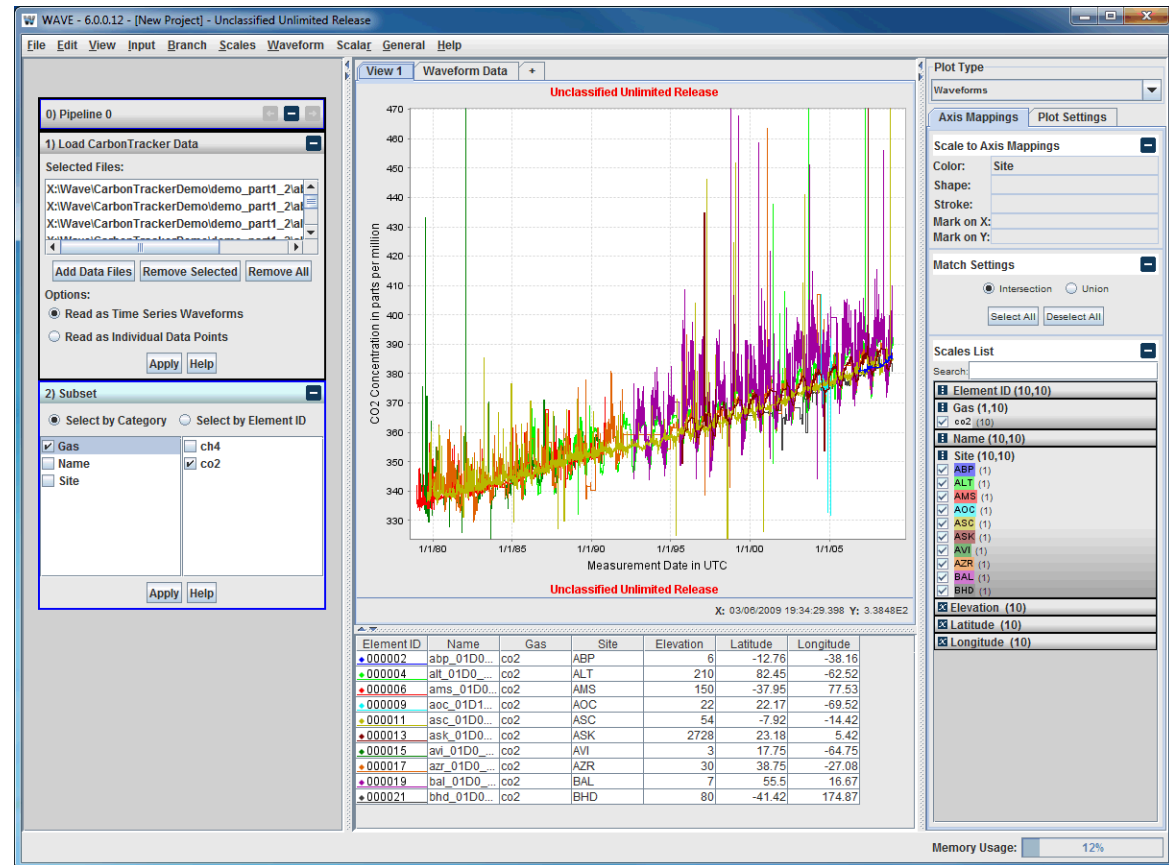
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WAVE

Waveform Analysis and Viewing Environment

- Sandia built application for general data analysis
- Allows users to chain together data analysis steps and create custom visualizations
- Over two hundred regular users and is available to thousands more across the Lab Complex





Software Engineering

- In development for 9 years
- Development team averages 4 developers
- Agile software development methodology
- Managed by rigorous DOE software quality process
- Written completely in Java for cross platform use
- Plug-in architecture: new analysis functions, data types, and visualizations can be added quickly

Data Analysis Example: Greenhouse Gas Data

- Greenhouse gases and global warming represent a critical national security issue
- NOAA CarbonTracker provides data from locations all over the world for analysis

