BREEZE AERMOD Version 7.8 – new features

BREEZE AERMOD Version 7.8 includes the updated 13350 U. S. EPA executable, released December 24, 2013, that provides new, state-of-the-science tools for modeling NO_2. BREEZE AERMOD Version 7.8 includes **new features** that:

- Integrate the U.S. EPA version 13350, including high-speed parallel and BREEZE-enhanced executables
- Incorporate the Ambient Ratio Method (ARM) and ARM2 for NO_2 modeling
- Add several new output file types to examine results of the Ozone Limiting Method (OLM), ARM, ARM2, and PRIME building downwash components
- Improve the Results Summary tool to include all pollutant types and averaging periods, including the new U.S. NAAQS standards (e.g. 1-hour SO_2 and NO_2 results and 24-hour $PM_{2.5}$ results)
- Import and view Shapefile attributes
- Open .AMZ files directly with BREEZE AERMOD
- Improve installation speed for some users

Basic features

- Preserve U.S. EPA AERMOD versions 12345, 12060, 09292, and 07026 compatibility
- Streamlined graphical user interface for more intuitive and easier dispersion modeling
- Simplifies the setup of pre-modeling objects with a variety of utilities
- Analyze post-modeling results using BREEZE 3D Analyst, BREEZE Downwash Analyst, tables for sensitive receptors, and 3D visuals for surface terrain
- Organizes model scenarios using a skeleton and neat file structure for better file management
- Uses inputs that are consistent and compatible with U.S. EPA AERMOD inputs, including test cases in U.S. EPA SCRAM website

Technical features

- Streamlines NO2, SO2 and PM2.5 modeling for U.S. NAAQS
- Models an unlimited number of sources and receptors
- Models numerous source types including point / stack (vertical, horizontal and capped), area, volume, open pit, flare, BREEZE area line and EPA area line
- Models numerous receptor types including discrete Cartesian grid, polar grid, and variable density grid
- Models multiple emission scenarios simultaneously
- Models an unlimited number of buildings with integrated BPIP analysis and downwash
- Utilizes CAD drawing tools
- Supports 7.5 DEM, 1 minute DEM, XYZ, and NED terrain data files
- Uses historical, hourly meteorological data with single or multiple hours
- Includes BREEZE AERMOD Parallel and Remote Parallel modeling option
- Includes ISC model

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