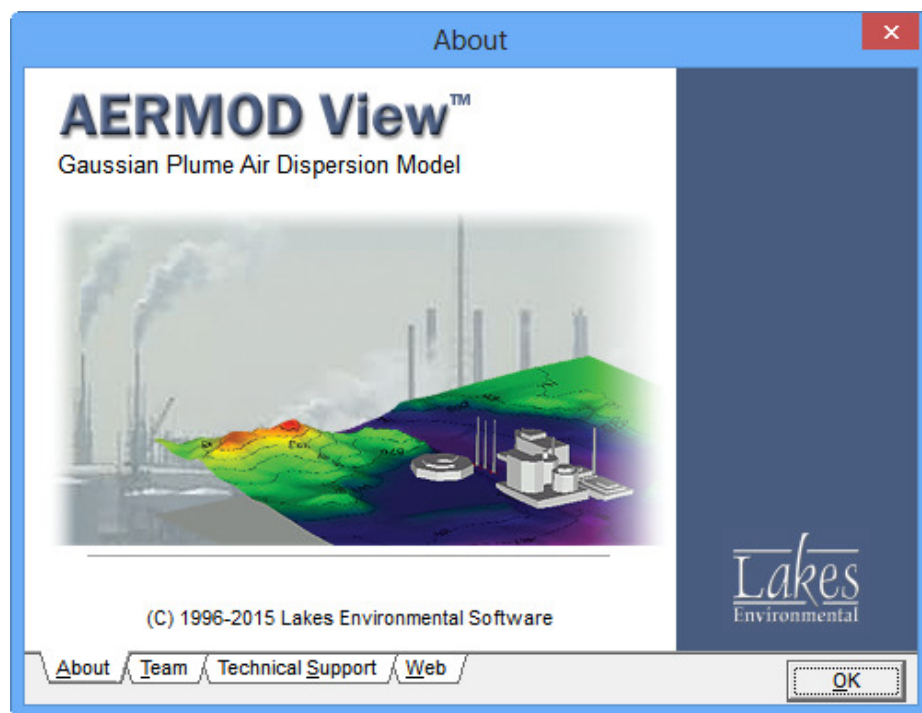# AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

Release Notes

Versions 8.8, 8.8.9, and 8.9

Lakes Environmental Software
Tel: (519) 746-5995 - Fax: (519) 746-0793
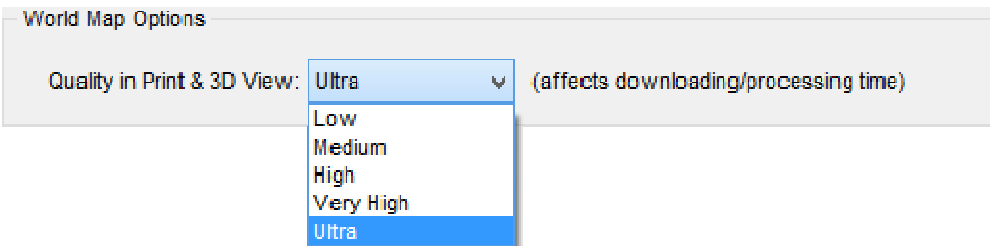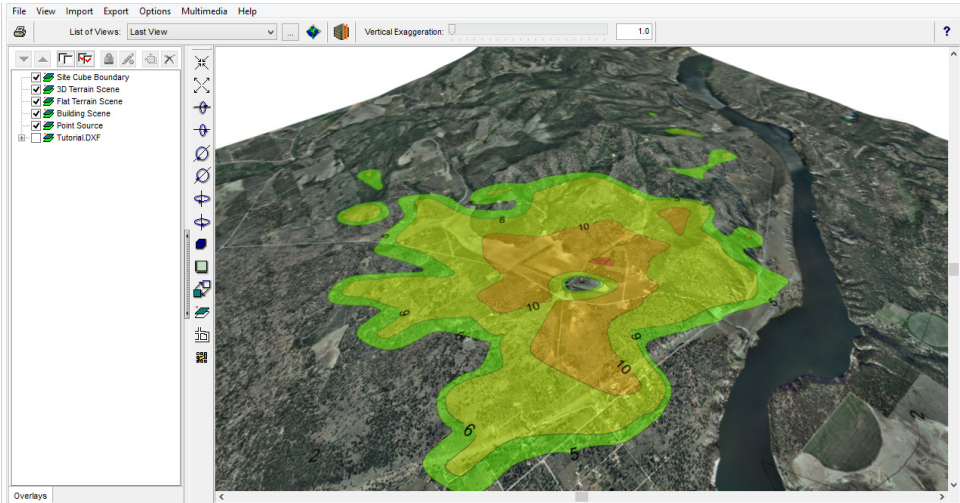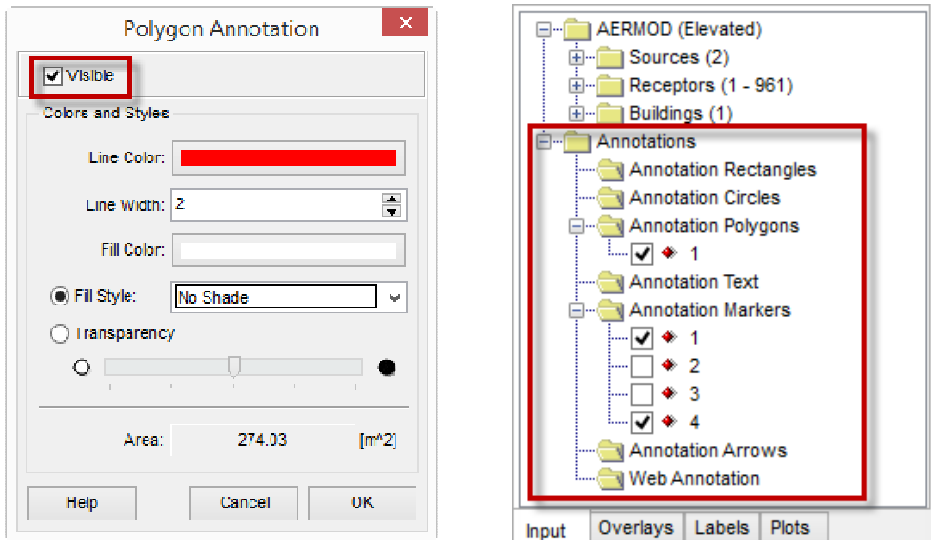E-mail: **support@webLakes.com**
Web Site: **www.webLakes.com**

AERMOD View™ Version 8.9
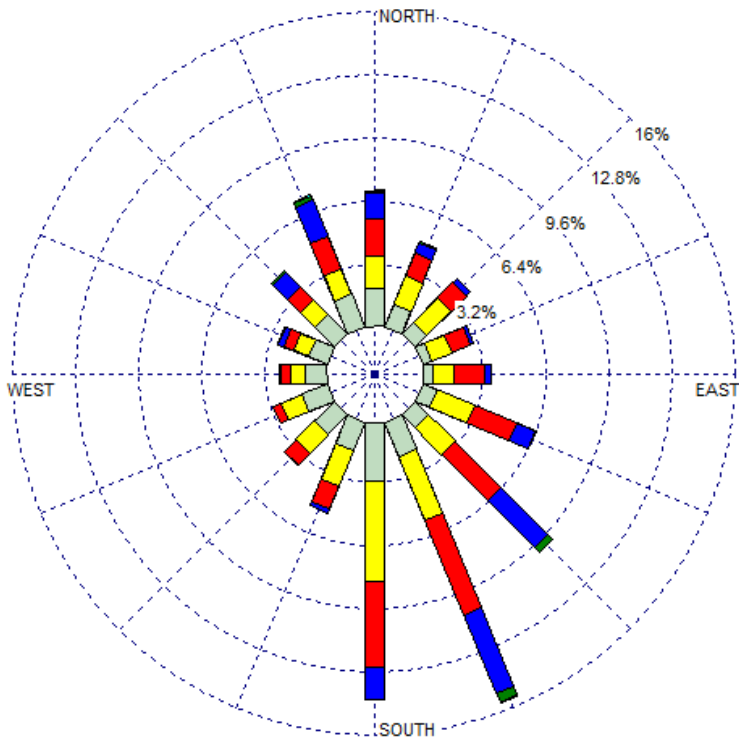
Release Notes

June 2, 2015

New Features

Topic	Feature Description
Base Maps	**Quality Selector for Printing and Exporting Tile Maps Imagery** Users can now select the quality level for imported Tile Maps which are included in **Print** and **3D View**. Higher quality levels require additional downloading and processing time. This feature is available in the **File | Preferences | Settings | World Map Settings**.

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Topic	Feature Description
Annotations	**Visibility Option for Annotation Objects** All annotation objects can now be visually disabled using the **Visible** checkbox or the Annotations entries in the **Input** tab under the **Tree View**.
Tools	**Updated Concentration File Maker** The **Concentration File Maker** utility now supports values greater than 1000. Files generated with the utility should be read using the **Free Format** setting in the AERMOD model.
AERMET View	**New AERMINUTE 14337 Executable** An updated version of AERMINUTE.EXE dated 14337 has been incorporated into AERMET View.

Topic	Feature Description
WRPLOT View	**Uniform Petal Size** Users can now set the Rose Petal size in WRPLOT View to **Uniform**. This avoids the over-proportional growth of the colored sector areas for high frequency values. This option is set in the **Wind Rose Options** under the **Colors & Brushes** tab.

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Fixed Issues

Topic	Issue Description
Base Maps	**Tile Maps Caused Application Freezing** Resolved an issue which caused the application to freeze while zooming in/out of the main display with Tile Maps enabled.
Project Repair	**Fixed Project Repair Utility** A problem in Project Repair was corrected to restore the full functionality of the utility.
Source Pathway	**Fixed Deletion of OLM Groups** The Delete Selected Group button in the OLM Groups options has been restored. The button was not functioning in the previous release.
Source Pathway	**Restored Cut-Copy-Paste Functions for Source List Table** In the previous release, users could only cut, copy, and paste data in the Source List table using the keyboard functions (i.e., Ctrl+X, Ctrl+C, Ctrl+V). This update restores the functionality of using context menu operations by right-clicking the mouse.
Meteorology Pathway	**Assign Default Upper Air ID when SFC File has No Value** A recent AERMET model update allowed users to input data for the Onsite pathway only. In this case, the upper air station ID number in the SFC file header was left blank. AERMOD View was updated to assign a value of 0 for the upper air station ID number to avoid a fatal error in AERMOD.
Output Pathway	**Fixed RECTABLE Averaging Period Issue** In limited cases, AERMOD View would mistakenly assign Receptor Table output to averaging periods that were not enabled in the project. The problem most frequently affected PM-2.5 and PM-10 cases. This has been resolved.
Output Pathway	**Recognition of Automatically-Generated Source Groups with the PSDGROUP Option** The AERMOD model only allows two automatically-generated source groups, **NAAQS** and **PSDINC**, when the PSDGROUP model option is enabled. The Output Pathway window did not properly recognize these groups for the purposes of assigning output files (e.g., Contour Plot Files, Threshold Violation Files, etc.). This issue has been resolved.

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Topic	Issue Description
Terrain Processor	**Fixed Issue Along US-Canadian Border** Projects involving DEM tiles from both US and Canada would sometimes display an issue where objects were assigned 0 elevation depending on which DEM tile was read first. This has been resolved.
Export	**Updated Overlays for Exporting to Shapefile** The list of available layers for exporting to shapefile was updated to remove layers that could not be exported. This includes base maps, tile maps, and imported shapefile layers.
AERMET View	**AERSURFACE Utility Updates** The AERSURFACE utility was updated to correct two issues: 1. The number of Sectors would change back to 1 when changing the Period. 2. Some cases would fail on the first run attempt with the Annual or Monthly Period. This was due to an issue with assigning months to seasons.
AERMET View	**Import Model Input Updates** Corrected the **File | Import Model Input** option to verify and import the upper air time zone adjustment and base elevation value for onsite stations.
WRPLOT View	**Incorrect Number of Petals Displayed** In some cases, WRPLOT View would default to a display with the full 36 petals while ignoring the user-specified Wind Directions value. This has been resolved.

AERMOD View™ Version 8.8.9

Release Notes

November 20, 2014

New Features

Topic	Feature Description
Terrain Processor	**Change to NED Terrain Download** A format change implemented by USGS caused NED data downloads in prior versions of AERMOD View to fail. The WebGIS feature has been updated to restore this functionality. **Note:** The NED Terrain Download feature is only available for users with a current maintenance agreement. Please contact our sales team if you need to renew your maintenance (sales@weblakes.com).

Fixed Issues

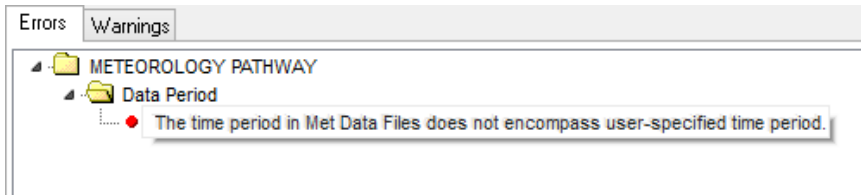| Topic	Issue Description
AERMOD View	**Regional Settings & Non-Unicode Characters** The program was updated to better handle non-US regional settings and non-Unicode characters. Some places fixed include Import Buildings from DXF function, AERMET View's Land Use Viewer, and AERMET View's AERSURFACE utility.
AERMOD View	**EVENT Model Run** Fixed an issue which prevented the EVENT Model run from executing.
Multi-Chemical Run	**Meteorological Data Folder Path** Fixed an issue that pointed Batcher to the wrong folder path to find the meteorological data files when performing Multi-Chemical runs.
Source Pathway	**Line Area Source Emissions** Updated the emission calculation procedure for all line area sources. Users who created line area sources using earlier releases of Version 8.8 should select the Generate button on the Line Area sources to recalculate the unit emissions.

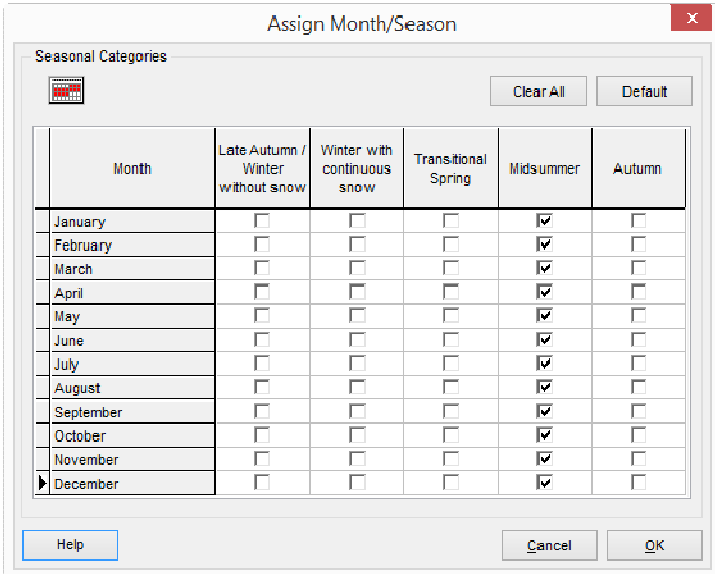| Topic	Issue Description
Reports	**Printing Problems** Corrected some issues which caused specific projects to be unable to view certain reports or print to certain printers.
Export	**Plotfiles to Surfer** Fixed an issue where exported Surfer GRID files did not have the user-assigned file name and extension.
AERMET View	**Sectors Tab** Resolved two issues on the Sectors tab: • The surface characteristics table was locked from manually editing values. This has been fixed. • The sectors table was fixed so it would expand properly when the number of sectors was increased.
AERMET View	**Import Surface Data from Excel** The utility was updated to properly read columns containing date and time information.
AERMET View	**Range Check Error** After executing an AERMET model run in Version 8.8.5, some users reported receiving a message that read "Range check error". This issue has been resolved.

AERMOD View™ Version 8.8

Release Notes

October 17, 2014

New Features

Topic	Feature Description
Models	**New AERMINUTE Executable** A new version of the US EPA **AERMINUTE** utility, dated 14237, was released on August 28, 2014. The new executable has been incorporated into AERMET View.

Met Pathway	**Added Data Period Validation**
	
	Additional quality assurance checks were added to ensure the Data Period to Process is encompassed by both the Surface (.SFC) and Profile (.PFL) meteorological data files.
	
	Errors Warnings
	METEOROLOGY PATHWAY
	   Data Period
	     ● The time period in Met Data Files does not encompass user-specified time period.

Reports	**Data Period** Updated the Meteorology Pathway report to include the "Data Period to Process" input for the model run. **Data Period** **Data Period to Process** Start Date: 1/1/1986 Start Hour: 1 End Date: 12/31/1986 End Hour: 24
Graphical Display	**Updated Area Source Vertices Calculation** The display of angled area sources was updated to account for fractional Angle of Rotation values.

Fixed Issues

Topic	Issue Description
Export	**Exporting Colored Contour Lines to Google Earth** Fixed an issue where un-filled, colored contour lines would sometimes have incorrect settings on one of the levels when exported to Google Earth.
Control Pathway	**Background Ozone Sectors Limited to 6** The number of sectors allowed for the "Vary by Downwind Sector" option with Background Ozone is now limited to 6 in accordance with the model code.
Source Pathway	**Background Concentration Sectors Limited to 6** The number of sectors allowed for the "Vary by Downwind Sector" option with Background Ozone is now limited to 6 in accordance with the model code.
Met Pathway	**Vector Wind Speed Option with Regulatory Defaults** Corrected an issue which prevented the "Wind Speeds are Vector Mean" option from being enabled concurrently with regulatory default options on the Control Pathway. `MODELOPT DFAULT CONC VECTORWS`
Receptor Pathway	**Lost Hill Height When Converting Plant Boundary Receptors** When a set of plant boundary receptors were converted to discrete receptors via the Actions menu, the hill height scale was not carried over to the new discrete receptors forcing the user to re-run AERMAP. The hill height scale is now retained during the conversion process.
AERMET View	**Default Executable** The previous release of AERMET View defaulted to AERMET_13350.EXE instead of AERMET.EXE (the 14134 model version).

Topic	Issue Description
AERMET View	**Reassign Months to Seasons in AERSURFACE** A bug in the AERSURFACE Utility would cause the program to ignore user selections in the Assign Month/Season window if all seasons were not represented. This has been resolved.

Known Issues

Topic	Issue Description
New Project Wizard	**No Spaces in Project Name with ISC** The ISCST3 and ISC-PRIME models are included in AERMOD for backwards compatibility purposes. Due to limitations in their code, these models will issue a fatal error if the project name contains spaces or special characters.
AERMOD MPI	**Incompatible Results with FASTAREA in 14134** A bug in the USEPA's AERMOD code for the 14134 model version results in questionable results at receptors very near sources when the FASTAREA algorithm is used. The results produced by the AERMOD MPI executable exhibit similar behavior but some values are not identical in these very limited scenarios.

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