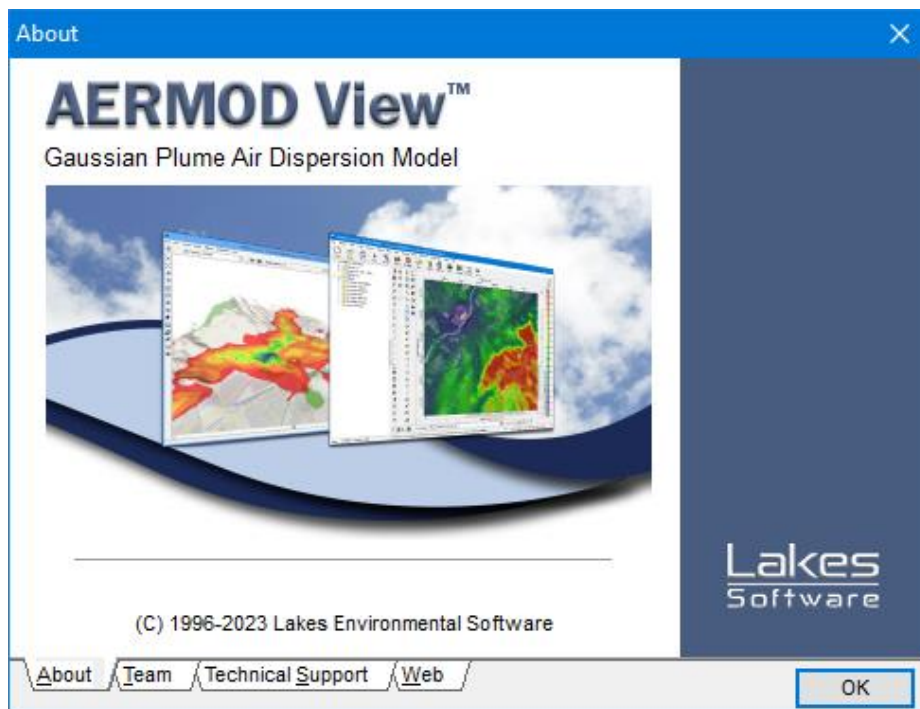


# AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

## Release Notes

Version 12.0



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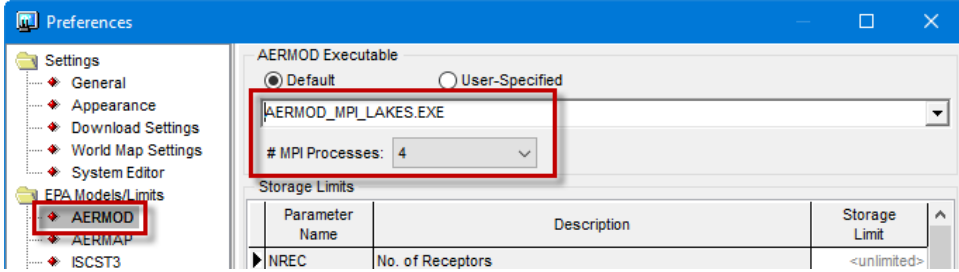
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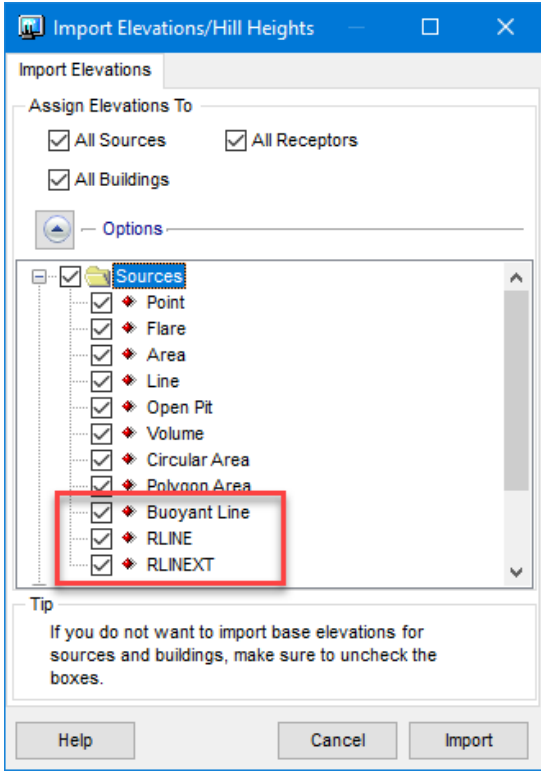
# AERMOD View™ Version 12.0.0

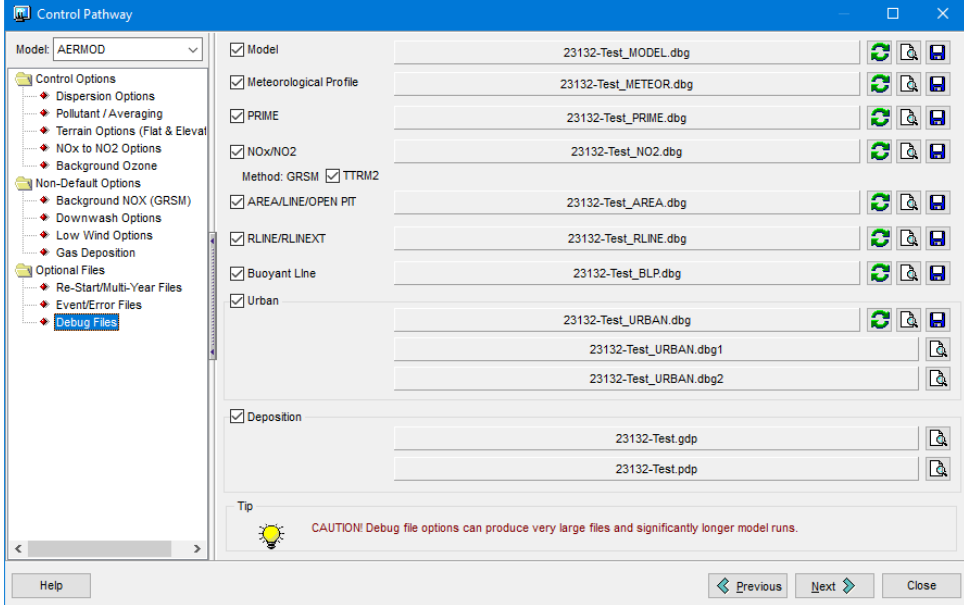
## Release Notes

November 21, 2023

### New Features

Topic	Feature Description
<p><b>AERMOD</b></p>	<p><b>Latest Release of U.S. EPA AERMOD Model Available – Dated 23132</b></p> <p>The following U.S. EPA Models were released on October 23, 2023 and are incorporated into <b>AERMOD View Version 12.0</b>:</p> <ol style="list-style-type: none"> <li>1. AERMOD.EXE is the latest version 23132 (32-Bit Version)</li> <li>2. AERMOD_23132_X32.EXE – The same as above (32-Bit Version)</li> <li>3. AERMOD_23132_X64.EXE – 64-Bit Version</li> </ol> <p>See the Model Change Bulletin for a list of changes and bug fixes:  <a href="https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_mcb17_v23132.pdf">https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_mcb17_v23132.pdf</a></p>
<p><b>AERMOD MPI</b></p>	<p><b>New Version of Lakes AERMOD MPI 23112 (Parallel Version)</b></p> <p>A new version of the Lakes AERMOD MPI for the US EPA Model Version 23132 is now available (AERMOD_MPI_LAKES_23132.exe). Install includes 64-bit and 32-bit versions. You can specify to use this model under the <b>Preferences</b> dialog.</p> <p><b>Note:</b> AERMOD_MPI_LAKES_23132.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (23132) in parallel mode using <u>up to a maximum of 8 cores</u>.</p> 

Topic	Feature Description
<p><b>AERMET</b></p>	<p><b>Latest Release of U.S. EPA AERMET Model Available – Dated 23132</b></p> <p>The following U.S. EPA Models were released on October 23, 2023 and are incorporated into <b>AERMET View Version 12.0</b>:</p> <ul style="list-style-type: none"> <li>• AERMET.EXE is the latest version 23132 (32-Bit Version)</li> <li>• AERMET_23132_X32.EXE – The same as above (32-Bit Version)</li> <li>• AERMET_23132_X64.EXE – 64-Bit Version</li> </ul> <p>See the Model Change Bulleting for a list of changes and bug fixes:  <a href="https://gaftp.epa.gov/Air/aqmg/SCRAM/models/met/aermet/aermet_mcb13.pdf">https://gaftp.epa.gov/Air/aqmg/SCRAM/models/met/aermet/aermet_mcb13.pdf</a></p>
<p><b>Terrain Processor</b></p>	<p><b>Elevation Import for All Source Types</b></p> <p>When processing terrain data, AERMOD View Version 12.0 will now interpolate elevations for all source types including those not directly supported within AERMAP. The added source types include <b>buoyant line, RLINE, &amp; RLINEXT</b>.</p> <p><b>Note:</b> This functionality does not replace or preclude existing model requirements / guidance on the use of terrain with these source types. Modelers should use this functionality in accordance with such requirements.</p> 

Topic	Feature Description
<p><b>Control Pathway</b></p>	<p><b>Updated Debug File Options</b></p> <p>A new urban debug file was added in AERMOD 23132. This file reports temperature and vertical potential temperature profiles for urban sources. It is assigned a default name of &lt;project&gt;_URBAN.dbg2.</p> <p>In addition, the Debug Files options were reorganized to provide clarity on which files are generated by specific selections.</p>  <p><b>Note:</b> AERMOD 23132 maintains the limitation of <b>no more than 6 debug files</b> in a single project. An error message will be presented in the Run Status display if more than 6 files are enabled at one time.</p>
<p><b>Project Status</b></p>	<p><b>New Warnings Added to Details</b></p> <p>The list of messages was updated to include additional warnings to assist users in identifying potential sources of error in their projects.</p>

## Fixed Issues

Topic	Feature Description
<b>Sources</b>	<p><b>Generated Source IDs for Line Sources</b></p> <p>An issue was addressed in which the generated sources along a Line Volume or Line Area source would have their ID incremented once the project was copied.</p> <p>In this update, copies of projects will maintain the original source IDs for these generated sources so long as the source parameters remain unchanged.</p>
<b>Control Pathway</b>	<p><b>Removed Invalid Keyword</b></p> <p>When specifying background ozone data, an issue occurred where the OZONUNIT was still written to the input file even if the “Specify Ozone Background Concentrations” option was disabled. This has been fixed.</p>
<b>New Project Wizard</b>	<p><b>Project Name Incompatibility</b></p> <p>Updates were made to support additional file naming conventions that were unsupported in previous releases due to an incompatibility with a default file unit number in the model code.</p>
<b>AERMET View</b>	<p><b>Land Use Viewer Sector Rotation</b></p> <p>The display within the Land Use Viewer was updated to show the correct layout for defined sectors. The previous release added an additional rotation based on the Albers projection used by AERSURFACE, but this was not necessary due to output being presented in a relative coordinate system.</p>

## Known Issues

Topic	Issue Description
<b>AERMOD Model</b>	<p><b>AERMOD System Bugs, Errata, and Related Guidance</b></p> <p>The U.S. EPA now maintains a list on their website of known issues with the current modeling system. Users will find the list at:</p> <p><a href="https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/AERMOD_System_Bugs_and_Related_Guidance.pdf">https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/AERMOD_System_Bugs_and_Related_Guidance.pdf</a></p>
<b>AERMOD Model</b>	<p><b>RLINE &amp; RLINEXT Results Sensitive to Receptor Order</b></p> <p>When modeling with the RLINE or RLINEXT source in AERMOD 19191 or later, results are dependent upon receptor order in the input file.</p> <p><b>Note:</b> AERMOD MPI results for these source types <b>may differ slightly</b> from those produced by the non-parallelized executables due to this issue.</p>
<b>New Project Wizard</b>	<p><b>No Spaces in Project Name with ISC</b></p> <p>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.</p>