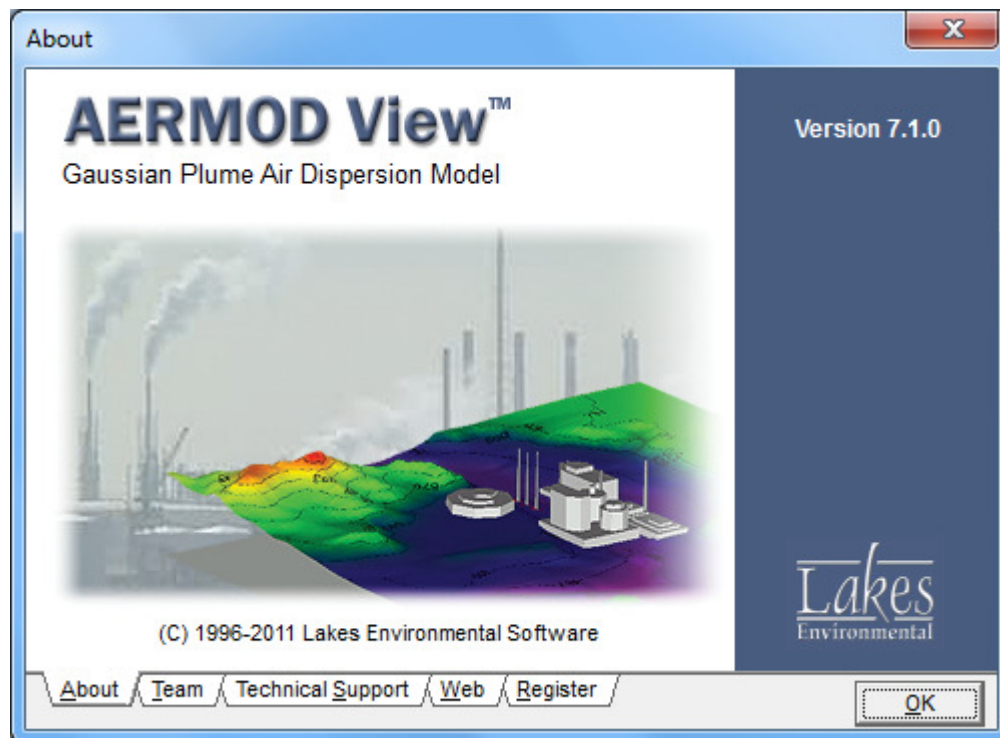


# AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

## Release Notes Version 7.0 & 7.1



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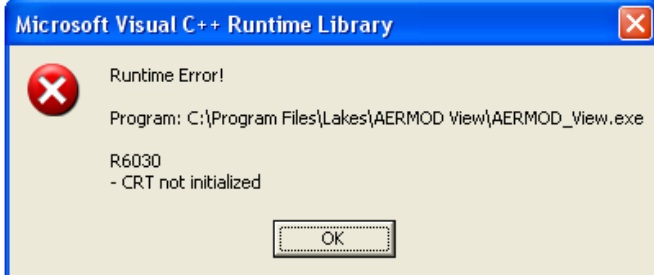
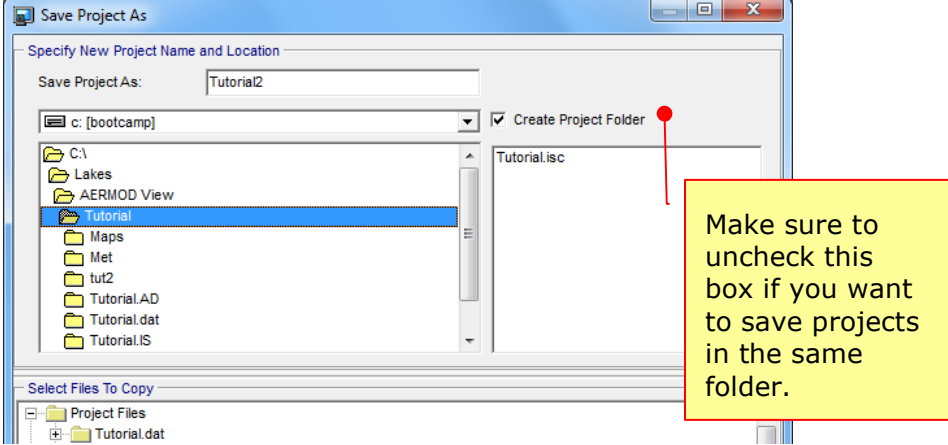


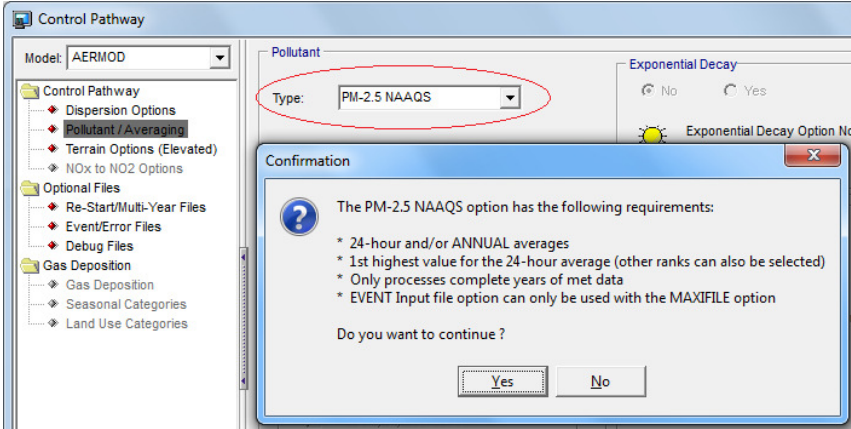
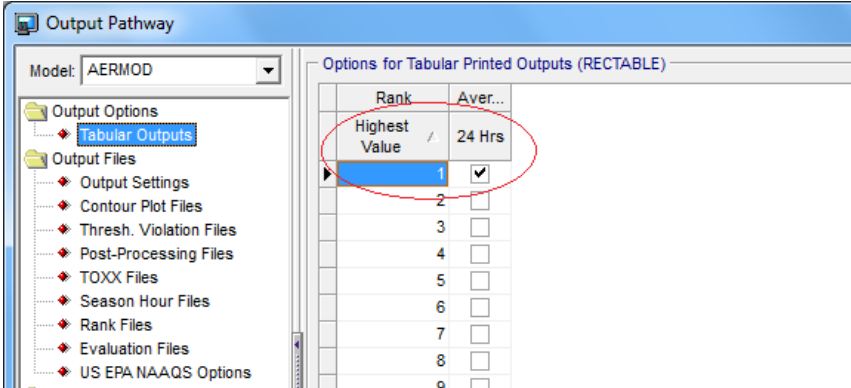
# AERMOD View™ Version 7.1




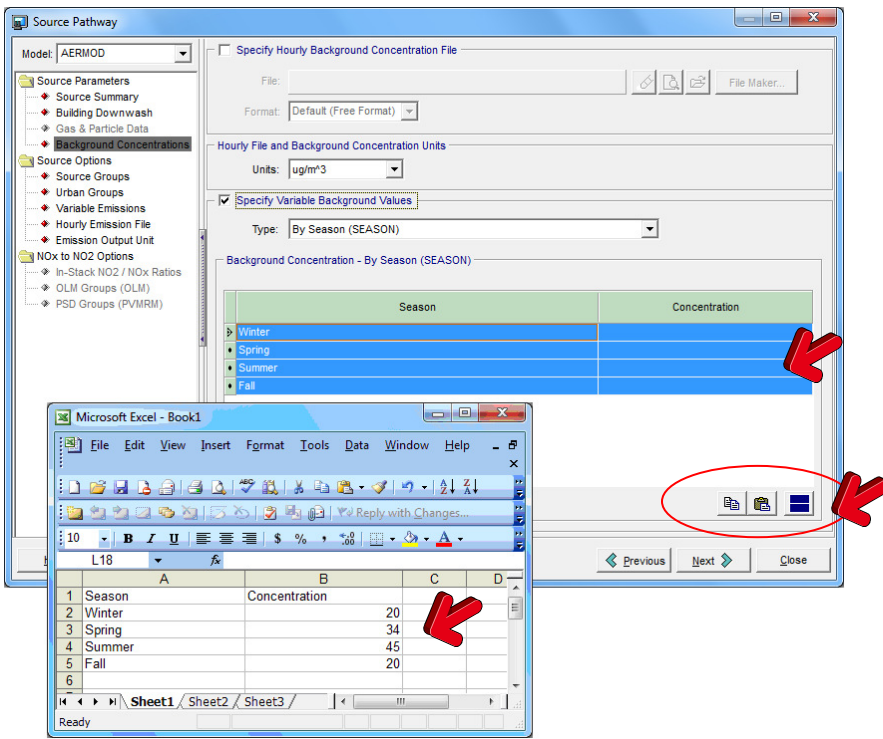
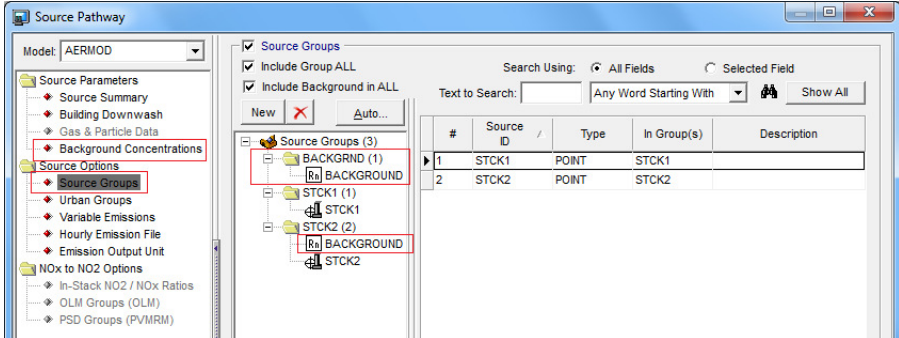
## Release Notes

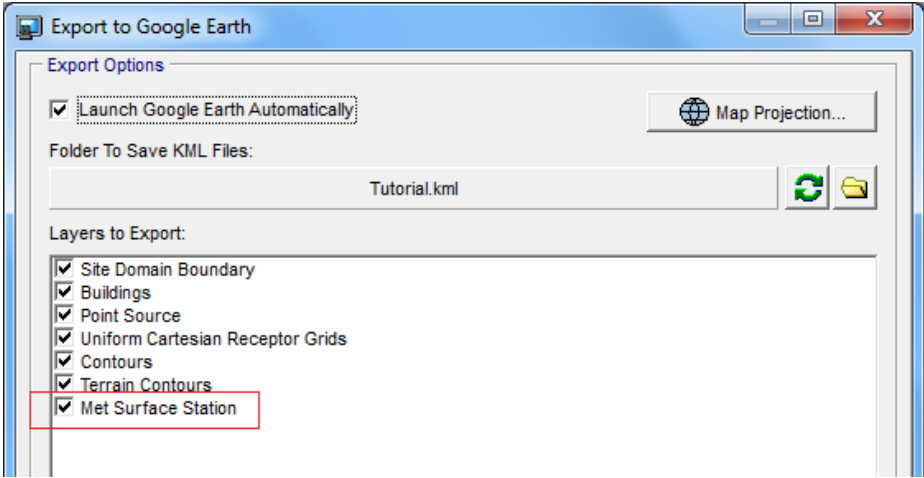
May 31, 2011

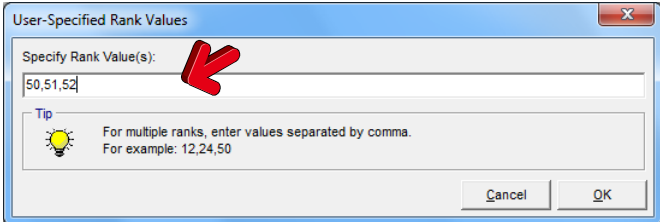
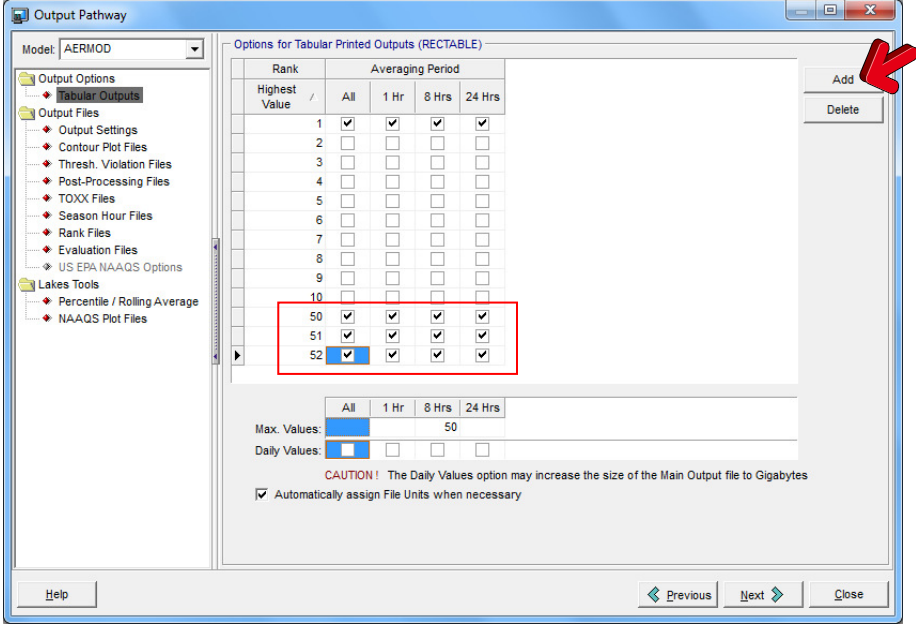
### New Features & Fixed Issues

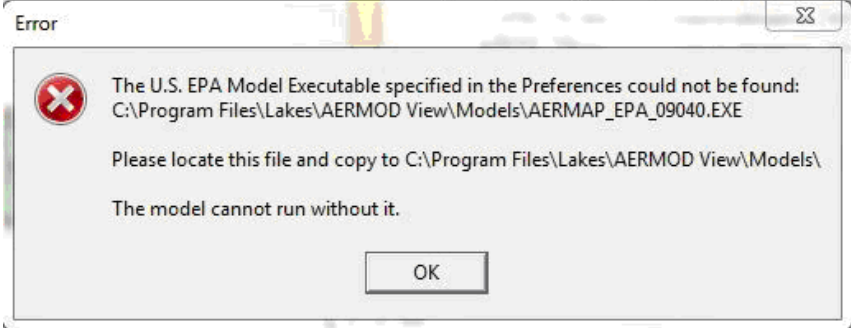
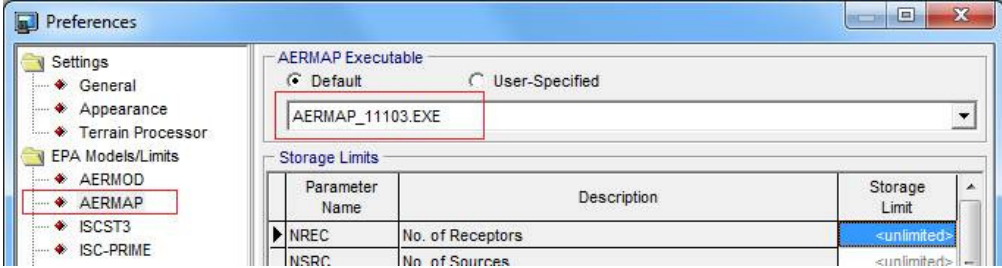
Topic	Feature Description
<b>Installation</b>	<p><b>Run Time Error – CRT not initialized</b></p> <p>The message below was displayed when trying to start AERMOD View Version 7.0.0. in a few machines. This issue has been fixed in version 7.1.</p> 
<b>Save As</b>	<p><b>Not Allowing More than One Project in the Same Folder</b></p> <p>The Save As functionality under AERMOD View Version 7.0.0 was not allowing users to save more than one project in the same folder. This has been fixed in AERMOD View Version 7.1.</p> 

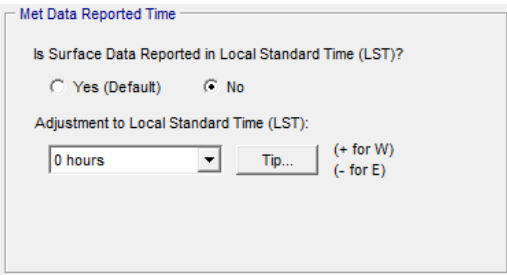
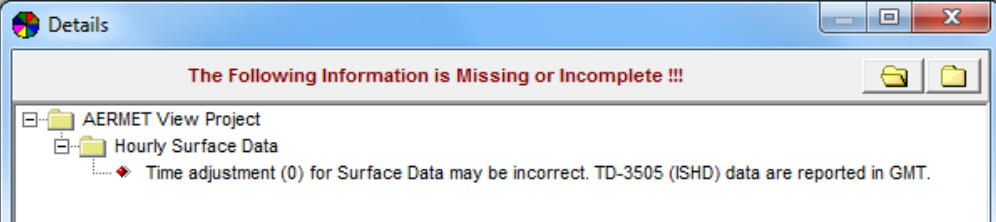
Topic	Feature Description
<b>PM-2.5 NAAQS</b>	<p><b>PM-2.5 NAAQS Option with 1<sup>st</sup>-Highest for 24-hour Average</b></p> <p>When selecting the pollutant type PM-2.5 NAAQS, although the message displayed was indicating that the 1<sup>st</sup> highest should be selected under the Output Pathway, only the 8<sup>th</sup> highest was being automatically selected.</p>  <p>In AERMOD View Version 7.1, the 1<sup>st</sup> highest will be automatically selected if pollutant PM-2.5 NAAQS is selected in the Control Pathway.</p> 

Topic	Feature Description																								
Source Pathway	<h3>Background Concentration Options</h3> <p>Several improvements were added to the Background Concentration Option:</p> <ol style="list-style-type: none"><li>1. You can now select either the hourly file or background values or both</li><li>2. Use the copy, paste, select All buttons (    ) to copy/paste background values between AERMOD View and Excel.</li></ol> <div><table data-bbox="638 869 1224 974"><thead><tr><th>Season</th><th>Concentration</th></tr></thead><tbody><tr><td>Winter</td><td></td></tr><tr><td>Spring</td><td></td></tr><tr><td>Summer</td><td></td></tr><tr><td>Fall</td><td></td></tr></tbody></table><table data-bbox="461 1142 948 1310"><thead><tr><th>Season</th><th>Concentration</th></tr></thead><tbody><tr><td>1 Winter</td><td>20</td></tr><tr><td>2 Spring</td><td>34</td></tr><tr><td>3 Summer</td><td>45</td></tr><tr><td>4 Fall</td><td>20</td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr></tbody></table></div>	Season	Concentration	Winter		Spring		Summer		Fall		Season	Concentration	1 Winter	20	2 Spring	34	3 Summer	45	4 Fall	20	5		6	
Season	Concentration																								
Winter																									
Spring																									
Summer																									
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Season	Concentration																								
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3 Summer	45																								
4 Fall	20																								
5																									
6																									
Source Pathway	<h3>Background Source and Source Group</h3> <p>Background Sources once specified for a specific source group and the Background Source Group will be remembered in case you make the background concentration option inactive and then active again.</p> <div><table data-bbox="850 1646 1273 1751"><thead><tr><th>#</th><th>Source ID</th><th>Type</th><th>In Group(s)</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>STCK1</td><td>POINT</td><td>STCK1</td><td></td></tr><tr><td>2</td><td>STCK2</td><td>POINT</td><td>STCK2</td><td></td></tr></tbody></table></div>	#	Source ID	Type	In Group(s)	Description	1	STCK1	POINT	STCK1		2	STCK2	POINT	STCK2										
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2	STCK2	POINT	STCK2																						

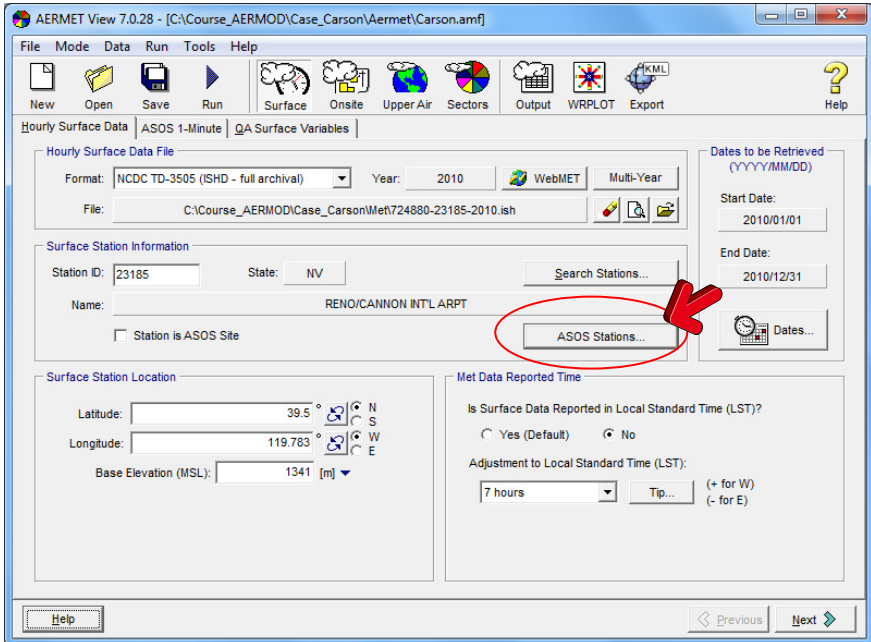
Topic	Feature Description
<b>Backup Option</b>	<p><b>Hourly Background Concentration File Added to Backup File</b></p> <p>Hourly background concentration file is now automatically added to the Project Backup option (File   Backup   Save to ZIP menu option).</p>
<b>Export</b>	<p><b>Export Met Station Location to Google Earth</b></p> <p>If the surface meteorological data (*.SFC) file is specified in the Met Pathway, then the <b>Met Surface Station</b> layer will be available when exporting your project to Google Earth.</p> 

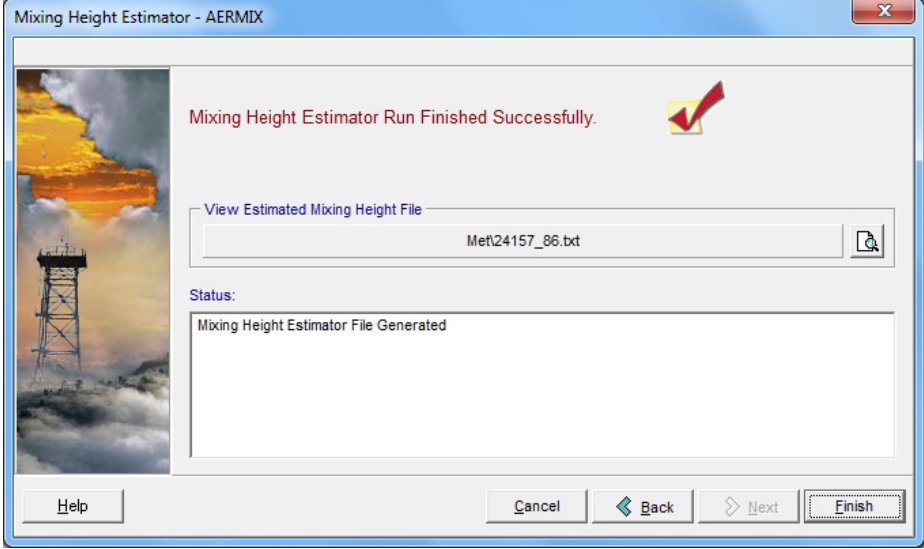
Topic	Feature Description
<b>Output Pathway</b>	<p><b>New Added Ranks are Automatically Selected</b></p> <p>Under the <b>Output Pathway – Tabular Output Options</b>, new ranks added using the <b>Add</b> button will be automatically selected for all available averaging periods.</p>  

Topic	Feature Description
<b>AERMAP</b>	<p><b>Error AERMAP_EPA_09040.EXE Could Not Be Found</b></p> <p>With the release of the US EPA AERMAP Version 11103, the previous version of the AERMAP model executable (AERMAP_EPA_09040.EXE) is no longer part of the AERMOD View installation. Under the Terrain Processor window, when trying to run AERMAP, a message is displayed asking you to locate AERMAP_EPA_09040.EXE.</p>  <p>The solution was to select the menu option <b>File   Preferences</b> and then select the latest US EPA AERMAP executable (AERMAP_11103.EXE or AERMAP.EXE). Press OK to close the Preferences dialog.</p>  <p>AERMOD View Version 7.1 will automatically select AERMAP.EXE in case any user-specified AERMAP executable cannot be found.</p>
<b>AERMAP</b>	<p><b>AERMAP Not Running Due to Background Concentration Options</b></p> <p>In AERMOD View Version 7.0.0, the new background concentration options were being written to the AERMAP input file causing fatal error messages from the AERMAP model.</p> <pre> ***** FATAL ERROR MESSAGES ***** SO E105 44 SETUP:Invalid Keyword Specified. The Troubled Keyword is BACKGRND SO E105 45 SETUP:Invalid Keyword Specified. The Troubled Keyword is BACKUNIT </pre> <p>This issue has been fixed by eliminating any background concentration related keywords from AERMAP input file.</p>

Topic	Feature Description
<b>Contours</b>	<p><b>New Contouring Algorithm Introduced</b></p> <p>With AERMOD View Version 7.0.0 a much faster contouring algorithm was introduced. Certain projects could not be opened using version 7.0.0 due to some very specific situations regarding receptor locations in existing projects. Most of these situations were fixed in AERMOD View Version 7.1.</p>
<b>Batcher</b>	<p><b>Batcher Not Recognizing Certain Paths for Met Files</b></p> <p>In AERMOD View Version 7.0.0, Batcher was not finding certain met data files that were located outside the project folder, issuing a message "Bad Format". This issue has been fixed in AERMOD View V.7.1.</p>
<b>AERMET View</b>	<p><b>Additional Checks Implemented for TD-3505 (ISHD)</b></p> <p>In AERMET View, additional checks were implemented for the Adjustment from GMT to Local Time if surface data is in TD-3505 format (ISHD).</p> <p>Surface data in TD-3505 is reported in GMT time and therefore the user needs to specify the adjustment from GMT to Local Time.</p>  



Topic	Feature Description																					
AERMET View	<div><div>ASOS Station List Available</div><div>The US EPA AERMET Version 11059 checks if a station is an ASOS station and the ASOS Commission Date using an internal station list. You can now have access to the same list by pressing the <b>ASOS Stations</b> button.</div><div></div></div>																					
AERMET View	<div><div>US EPA AERMET Supported Surface Met Files and Year Range</div><div>The US EPA AERMET Model Version 11059 now checks for a range of valid years for the several surface data formats. The acceptable range of years are as follows:</div><table><tr><th>NWS Surface Format</th><th>Start Date</th><th>End Date</th></tr><tr><td>CD-144</td><td>---</td><td>12/31/1995</td></tr><tr><td>HUSWO</td><td>1/1/1990</td><td>12/31/1995</td></tr><tr><td>TD-3505 (ISHD)</td><td>---</td><td>---</td></tr><tr><td>SAMSON</td><td>1/1/1961</td><td>12/31/1990</td></tr><tr><td>SCRAM</td><td>1/1/1984</td><td>12/31/1992</td></tr><tr><td>TD-3280</td><td>---</td><td>---</td></tr></table><div><div>Example:</div><div>If a SAMSON file is provided for one of the NWS stations which are present under the ASOS station list (see previous topic) and the year of the SAMSON file is prior to 1961 or beyond 1990, then AERMET will set all cloud cover values for the surface output file (*.SFC) as missing (99). This SFC file will not be appropriate for use with the AERMOD model.</div></div><div>For stations IDs not found in the ASOS list (e.g., 99999, 66666, etc.), a warning will be given under Stage 1 Report file (*.RP1) but cloud cover values will not be set to missing.</div></div>	NWS Surface Format	Start Date	End Date	CD-144	---	12/31/1995	HUSWO	1/1/1990	12/31/1995	TD-3505 (ISHD)	---	---	SAMSON	1/1/1961	12/31/1990	SCRAM	1/1/1984	12/31/1992	TD-3280	---	---
NWS Surface Format	Start Date	End Date																				
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TD-3505 (ISHD)	---	---																				
SAMSON	1/1/1961	12/31/1990																				
SCRAM	1/1/1984	12/31/1992																				
TD-3280	---	---																				

Topic	Feature Description
<b>Rammet View</b>	<p><b>Mixing Height Estimator - AERMIX</b></p> <p>Under AERMOD View Version 7.0.0, the Mixing Height Estimator was not generating output results. This issue has been fixed in Version 7.1</p> 

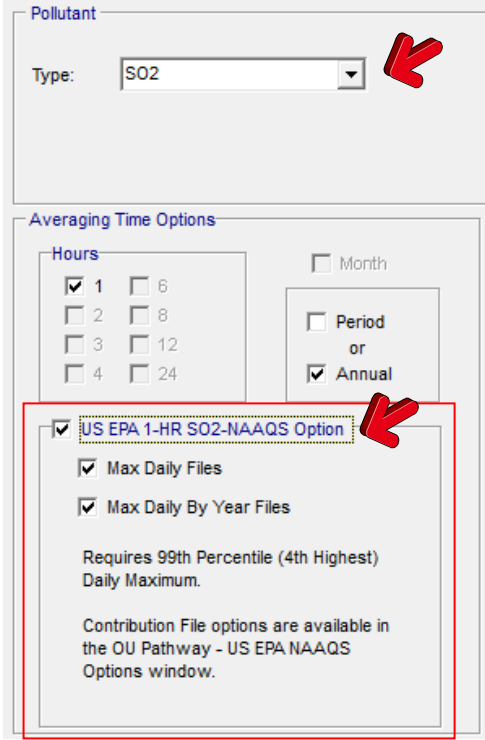
# AERMOD View™ Version 7.0.0

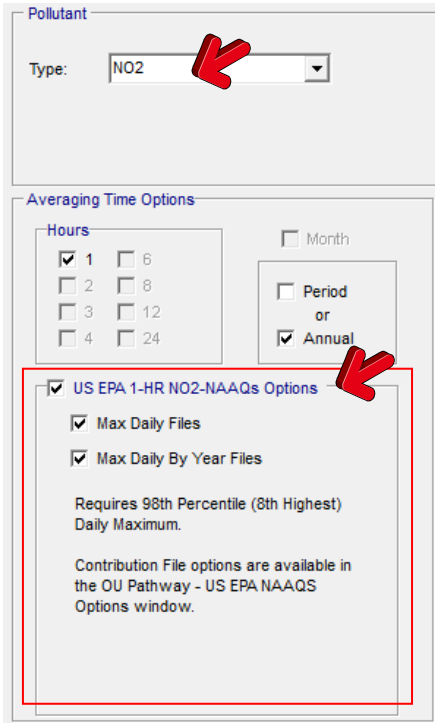
## Release Notes

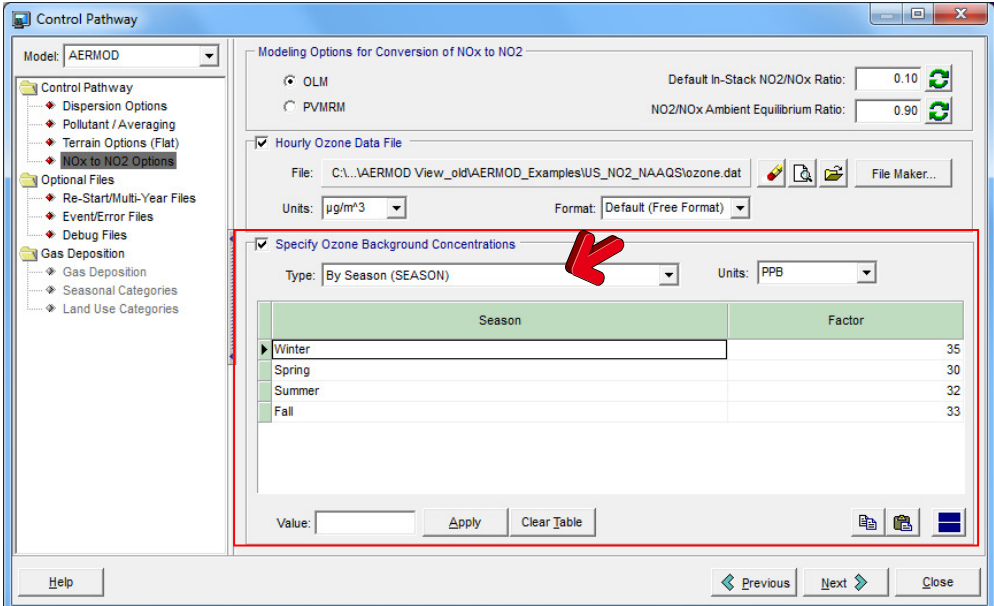
May 10, 2011

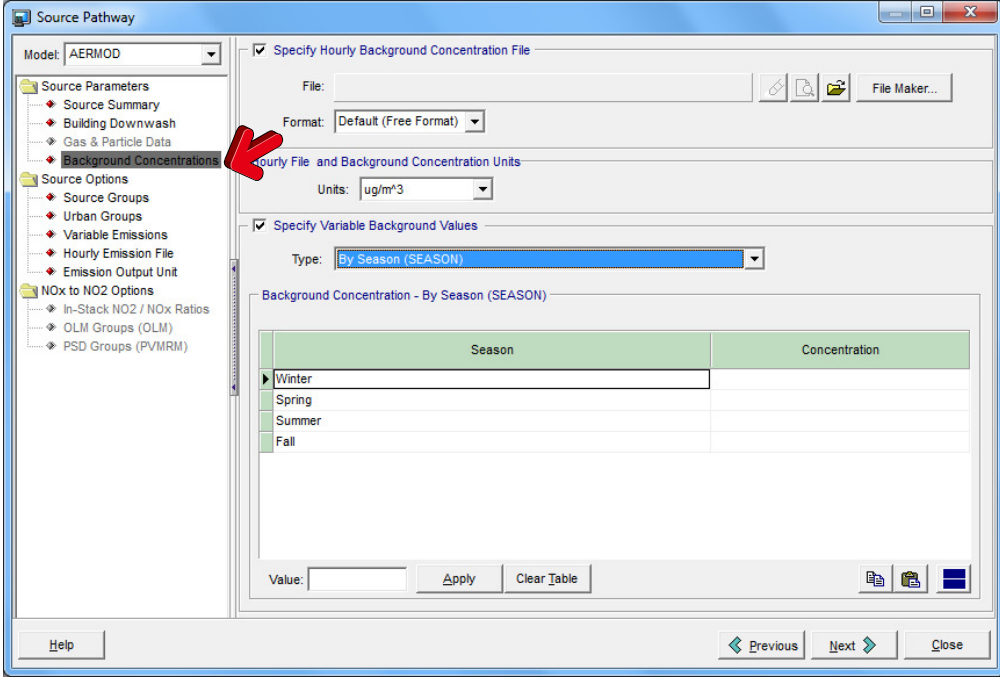
### New Features & Fixed Issues

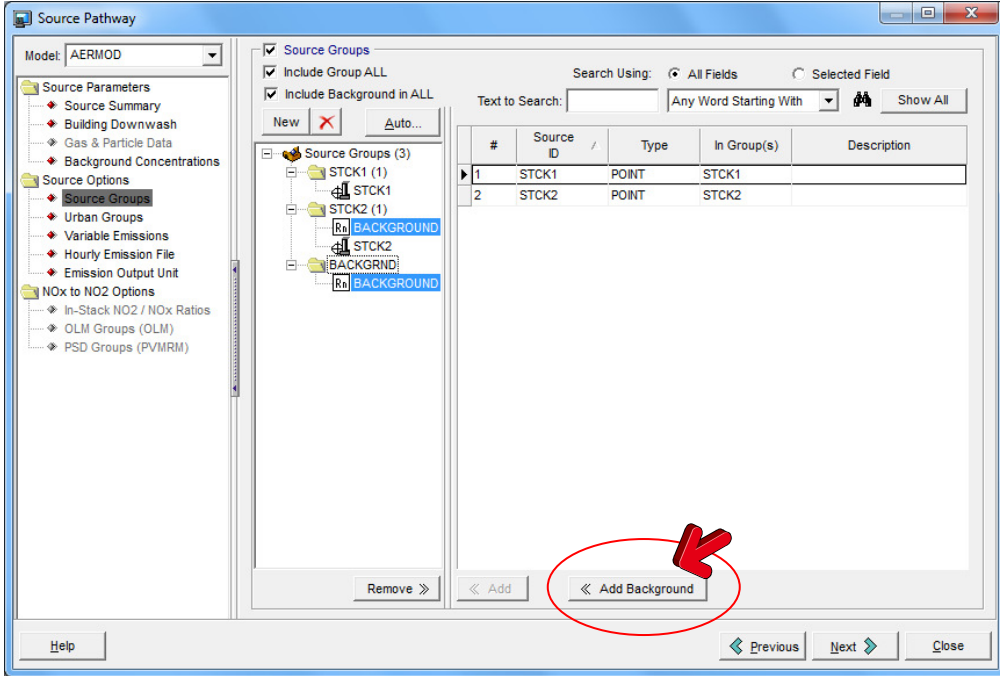
Topic	Feature Description
<b>Models</b>	<p><b>Latest US EPA Models</b></p> <p>AERMOD View Version 7 includes the latest updates and new models made available from the <a href="http://www.epa.gov/ttn/scram/">U.S. EPA TTN SCRAM</a> web site:</p> <ul style="list-style-type: none"><li>▪ AERMOD Version 11103</li><li>▪ AERMAP Version 11103</li><li>▪ AERMET Version 11059</li><li>▪ AERMINUTE Version 11059</li><li>▪ LEADPOST Version 11096</li></ul>
<b>Control Pathway</b>	<p><b>New US EPA 1-Hour SO2 NAAQS Option</b></p> <p>Under the <b>Control Pathway - Pollutant / Averaging</b> screen a new option was introduced to guide modelers complying with the latest US EPA NAAQS standards for SO2.</p> <p>The new 1-hour SO2 NAAQS standard should be calculated based on the average of the 99<sup>th</sup> percentile (4<sup>th</sup> highest) of the annual distribution of daily maximum 1-hour concentrations averaged across the modeled years.</p> <p>After the selection of the pollutant type SO2, the user should check the <b>US EPA 1-HR SO2 NAAQS Option</b> box. This will automatically select a few additional options:</p> <ol style="list-style-type: none"><li>1) 1-hour average (CO Pathway)</li><li>2) 4<sup>th</sup> highest for 1-hour average (OU Pathway)</li><li>3) Max Daily file(s) (OU Pathway)</li><li>4) Max Daily by Year file(s) (OU Pathway)</li></ol>

Topic	Feature Description
	 <p><b>Pollutant</b></p> <p>Type: <input type="text" value="SO2"/></p> <p><b>Averaging Time Options</b></p> <p><b>Hours</b></p> <p><input checked="" type="checkbox"/> 1 <input type="checkbox"/> 6 <input type="checkbox"/> 2 <input type="checkbox"/> 8 <input type="checkbox"/> 3 <input type="checkbox"/> 12 <input type="checkbox"/> 4 <input type="checkbox"/> 24</p> <p><input type="checkbox"/> Month</p> <p><input type="checkbox"/> Period or <input checked="" type="checkbox"/> Annual</p> <p><input checked="" type="checkbox"/> <b>US EPA 1-HR SO2-NAAQS Option</b></p> <p><input checked="" type="checkbox"/> Max Daily Files <input checked="" type="checkbox"/> Max Daily By Year Files</p> <p>Requires 99th Percentile (4th Highest) Daily Maximum.</p> <p>Contribution File options are available in the OU Pathway - US EPA NAAQS Options window.</p>

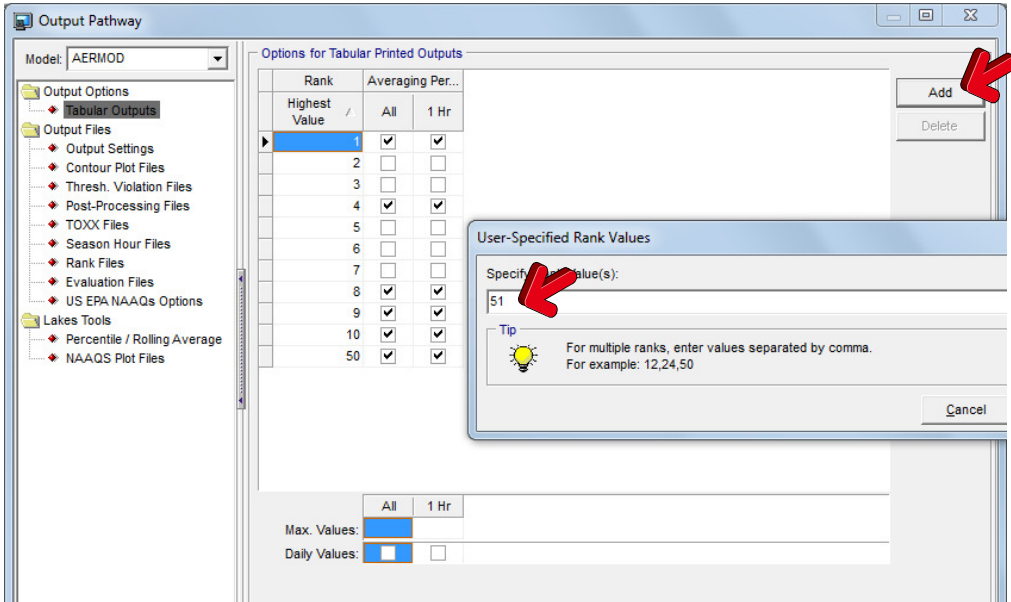
Topic	Feature Description
Control Pathway	<p><b>New US EPA 1-Hour NO2 NAAQS Option</b></p> <p>Under the <b>Control Pathway - Pollutant / Averaging</b> window a new option was introduced to guide modelers complying with the latest US EPA NAAQS standards for NO2.</p> <p>The new 1-hour NO2 NAAQS standard should be calculated based on the average of the 98<sup>th</sup> percentile (8<sup>th</sup> highest) of the annual distribution of daily maximum 1-hour concentrations averaged across the modeled years.</p> <p>After the selection of the pollutant type NO2, the user should check the <b>US EPA 1-HR NO2 NAAQS Option</b> box. This will automatically select a few additional options:</p> <ul style="list-style-type: none"> <li>5) 1-hour average (CO Pathway)</li> <li>6) 8<sup>th</sup> highest for 1-hour average (OU Pathway)</li> <li>7) Max Daily file(s) (OU Pathway)</li> <li>8) Max Daily by Year file(s) (OU Pathway)</li> </ul> 

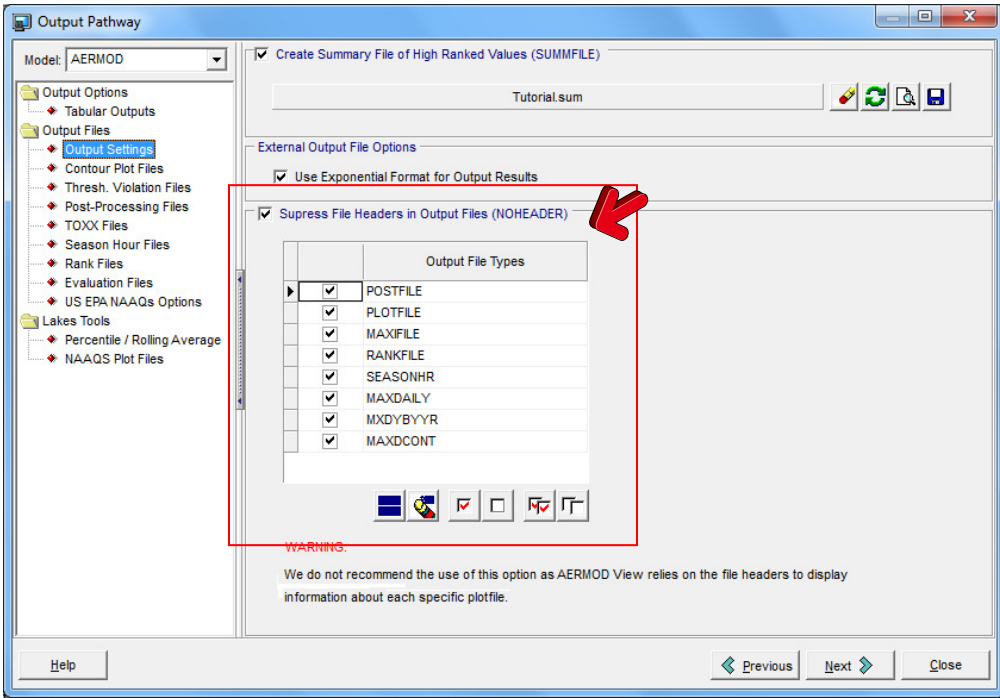
Topic	Feature Description										
Control Pathway	<p><b>New Ozone Background Concentration Options</b></p> <p>A new option to specify temporally-varying background ozone concentrations was introduced with the US EPA AERMOD Version 11059 and 11103.</p>  <p>The screenshot shows the 'Control Pathway' dialog box with the 'Model' set to 'AERMOD'. The 'Specify Ozone Background Concentrations' section is highlighted with a red box and a red arrow pointing to the 'Type' dropdown menu, which is set to 'By Season (SEASON)'. The table below shows seasonal factors: Winter (35), Spring (30), Summer (32), and Fall (33). The units are set to PPB.</p> <table border="1" data-bbox="673 766 1372 892"> <thead> <tr> <th>Season</th><th>Factor</th></tr> </thead> <tbody> <tr> <td>Winter</td><td>35</td></tr> <tr> <td>Spring</td><td>30</td></tr> <tr> <td>Summer</td><td>32</td></tr> <tr> <td>Fall</td><td>33</td></tr> </tbody> </table>	Season	Factor	Winter	35	Spring	30	Summer	32	Fall	33
Season	Factor										
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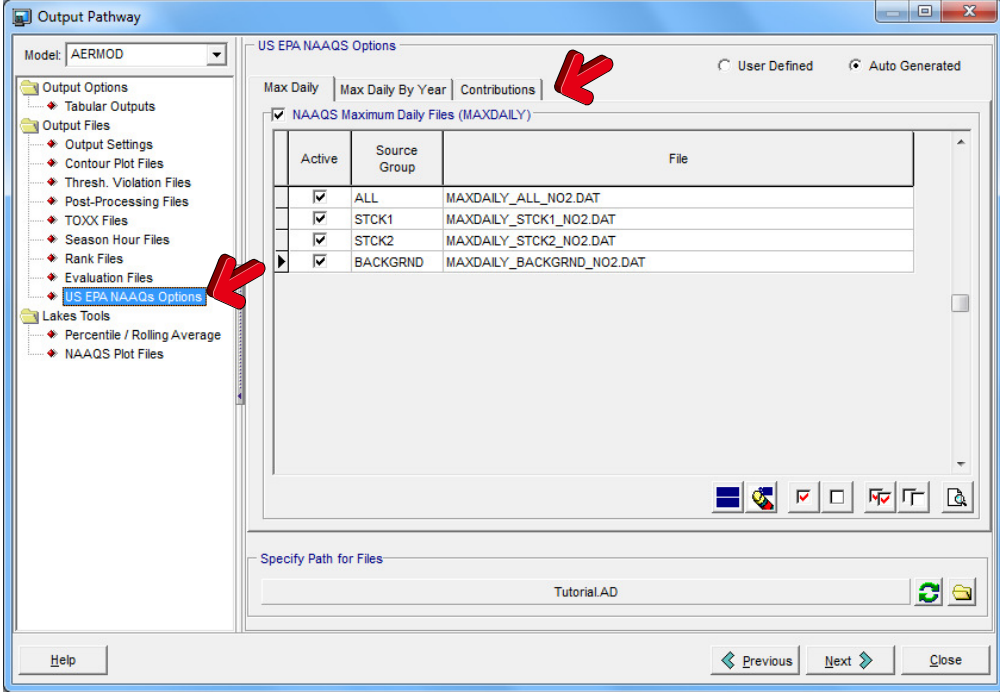
Topic	Feature Description
<b>Source Pathway</b>	<p><b>Background Concentrations</b></p> <p>Beginning with the US EPA AERMOD model version 11059, users can specify uniform or temporally varying background concentrations using the BACKGRND keyword on the SO Pathway. Background concentrations can be included with any source group to estimate cumulative ambient impacts. Background concentrations can be specified using a range of options similar to those available with the Variable Emissions, and/or on an hourly basis from a separate data file.</p>  <p>The screenshot shows the 'Source Pathway' dialog box. On the left, a tree view lists various options, with 'Background Concentrations' highlighted and pointed to by a red arrow. The main area of the dialog is divided into two sections. The top section, 'Specify Hourly Background Concentration File', includes a 'File' field, a 'Format' dropdown set to 'Default (Free Format)', and a 'Units' dropdown set to 'ug/m³3'. The bottom section, 'Specify Variable Background Values', has a 'Type' dropdown set to 'By Season (SEASON)'. Below this is a table titled 'Background Concentration - By Season (SEASON)' with two columns: 'Season' and 'Concentration'. The 'Season' column lists Winter, Spring, Summer, and Fall. At the bottom of the dialog are 'Apply', 'Clear Table', and 'Value' fields, along with 'Previous', 'Next', and 'Close' buttons.</p>

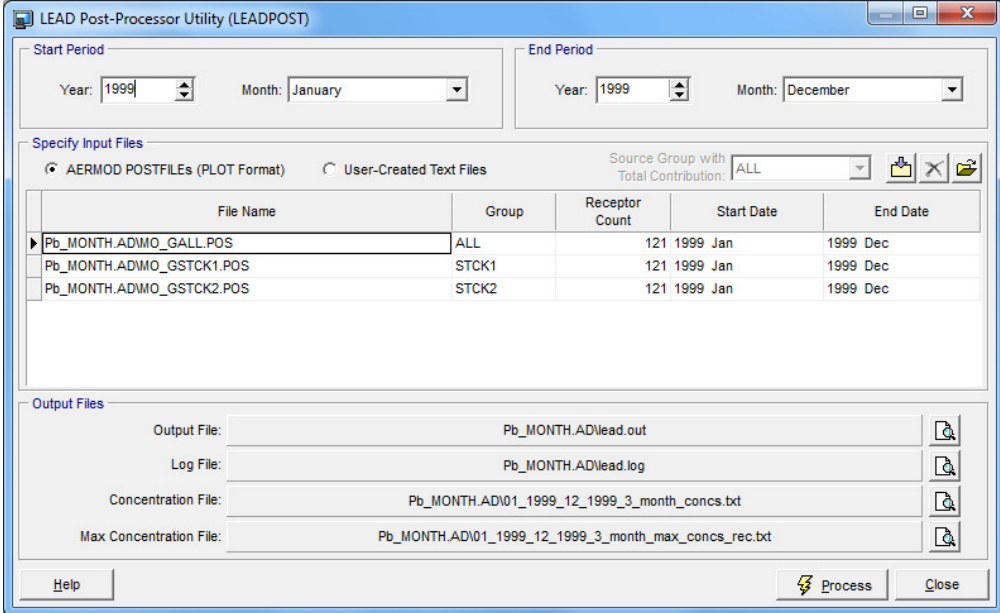
Topic	Feature Description															
Source Pathway	<div><h3>Additional Options for Source Groups</h3><p>With the introduction of the Background Concentrations option, you can request that the special background concentration source (BACKGROUND) be included in any Source Group and/or be also included as an individual Source Group (BACKGRND).</p><p>The screenshot shows the 'Source Pathway' dialog box. On the left is a tree view of source parameters. The main area is divided into two panes. The left pane shows a tree of source groups: 'Source Groups (3)' containing 'STCK1 (1)', 'STCK2 (1)', and 'BACKGROUND'. The right pane shows a table of source groups:</p><table><thead><tr><th>#</th><th>Source ID</th><th>Type</th><th>In Group(s)</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>STCK1</td><td>POINT</td><td>STCK1</td><td></td></tr><tr><td>2</td><td>STCK2</td><td>POINT</td><td>STCK2</td><td></td></tr></tbody></table><p>At the bottom of the dialog, there are buttons for 'Remove', 'Add', and 'Add Background'. The 'Add Background' button is circled in red with a red arrow pointing to it.</p></div>	#	Source ID	Type	In Group(s)	Description	1	STCK1	POINT	STCK1		2	STCK2	POINT	STCK2	
#	Source ID	Type	In Group(s)	Description												
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2	STCK2	POINT	STCK2													

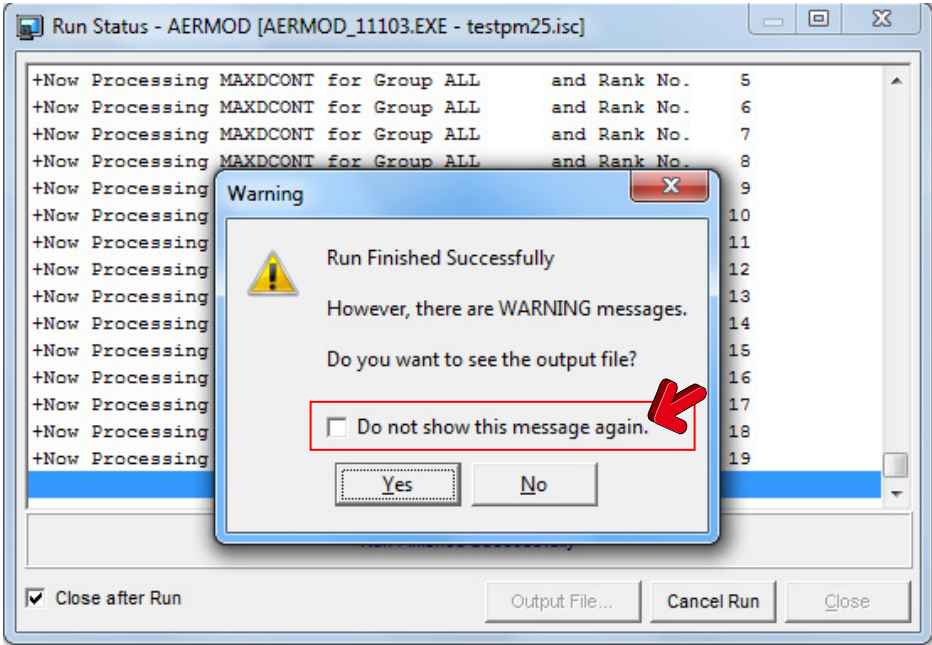
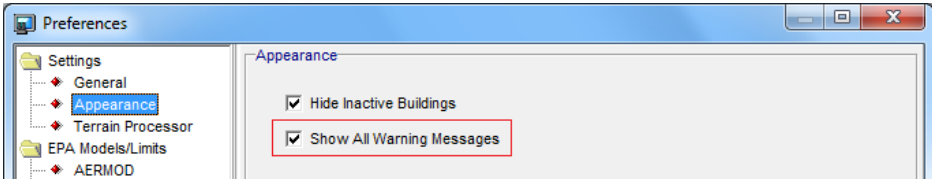


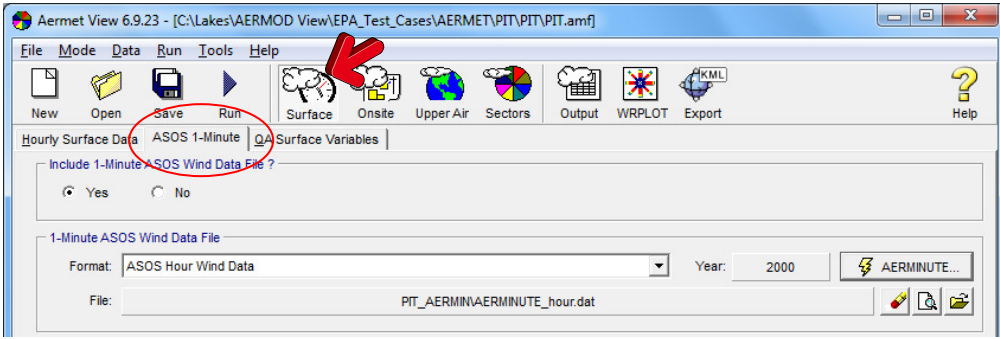
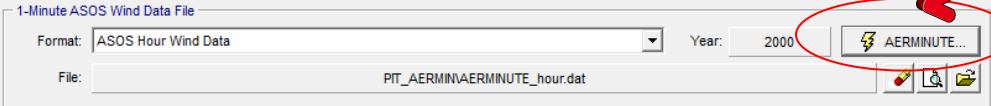
Topic	Feature Description																																				
Output Pathway	<h3>Highest Values Table</h3> <p>Introduced with AERMOD Version 11059 and 11103, you can now specify more than the 10<sup>th</sup>-highest values up to a maximum of 999<sup>th</sup>.</p> <p>In AERMOD View, the Highest Values table was re-designed to accommodate this new option. By default, only the 10 highest values will be automatically displayed in the table. Additional highest values can be specified by pressing the <b>Add</b> button.</p>  <p>The screenshot shows the 'Output Pathway' dialog box with the 'Model' set to 'AERMOD'. The 'Output Options' tree on the left includes 'Tabular Outputs' and 'Output Files'. The 'Options for Tabular Printed Outputs' section contains a table for specifying the number of highest values to display. The table has columns for 'Rank', 'Highest Value', and 'Averaging Period' (All, 1 Hr). The 'Add' button is highlighted with a red arrow. A 'User-Specified Rank Values' dialog box is also shown, with a red arrow pointing to the 'Specify Rank Value(s):' field where '51' is entered. A tip box indicates that for multiple ranks, values should be separated by commas (e.g., 12,24,50).</p> <table data-bbox="672 638 875 932"><thead><tr><th>Rank</th><th>Highest Value</th><th>Averaging Per...</th></tr></thead><tbody><tr><td>1</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>2</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>3</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>4</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>5</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>6</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>7</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>8</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>9</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>10</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>50</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></tbody></table> <p>Max. Values: <input type="text"/> All <input type="checkbox"/> 1 Hr <input type="checkbox"/></p> <p>Daily Values: <input type="text"/> <input type="checkbox"/></p>	Rank	Highest Value	Averaging Per...	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	<input type="checkbox"/>	<input type="checkbox"/>	6	<input type="checkbox"/>	<input type="checkbox"/>	7	<input type="checkbox"/>	<input type="checkbox"/>	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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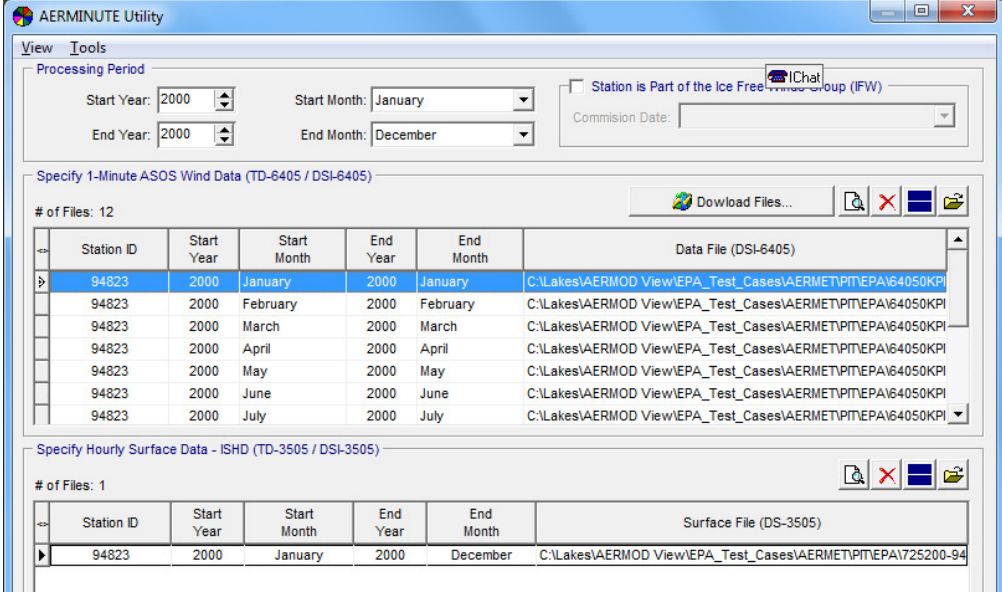
Topic	Feature Description
<b>Output Pathway</b>	<p><b>Additional Output Settings</b></p> <p>The <b>Output Settings</b> window under the Output Pathway was redesigned to accommodate the new option introduced with AERMOD Version 11059 and 11103 which allows the user to suppress output file headers from several output files such as PLOTFILES, POSTFILES, etc. We do not recommend the use of this option unless you need to post-process these files outside the AERMOD View interface.</p> <p>The exiting <b>Summary File</b> option is now selected as default for all new projects and has a new extension (*.sum instead of *.osf).</p> 

Topic	Feature Description
<b>Output Pathway</b>	<p><b>US EPA NAAQS Options</b></p> <p>Introduced with AERMOD Version 11059 and 11103, three new special output file options are available that can only be used for the special processing of 1-HR SO<sub>2</sub>, 1-HR NO<sub>2</sub>, and 24-HR PM<sub>2.5</sub> NAAQS options:</p> <ol style="list-style-type: none"> <li>1) <b>MAXDAILY:</b> Output file of daily maximum 1-hour concentrations for a specified source group, for each day in the data period processed.</li> <li>2) <b>MXDYBYR:</b> Output file with a summary of daily maximum 1-hour concentrations by year for each rank specified on the RECTABLE keyword.</li> <li>3) <b>MAXDCONT:</b> Contribution files</li> </ol> 

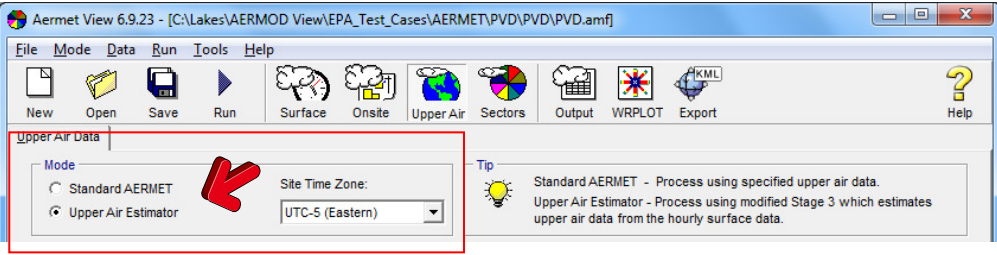
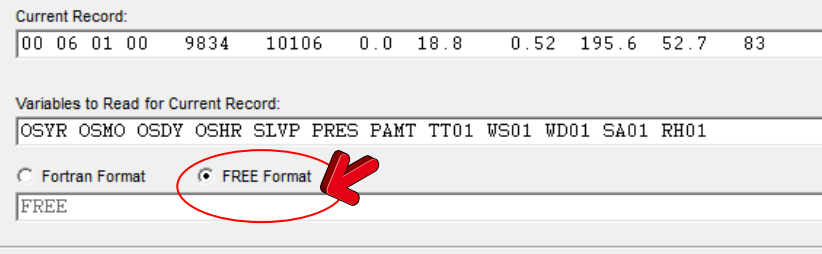
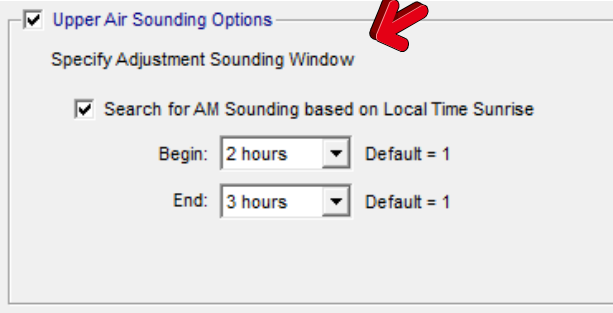
Topic	Feature Description
Tools	<p><b>LEAD Post-Processor Utility (LEADPOST)</b></p> <p>On April 13, 2011, the US EPA released the latest version of the LEAD post-processor (LEADPOST Version 09096). LEADPOST was incorporated into AERMOD View as an external utility available under the <b>Tools</b> menu. The Pollutant “LEAD” was also incorporated in the Pollutant list in the Control Pathway. The simple steps on how to use the Lead Post-Processor Utility are outlined below:</p>  <ol style="list-style-type: none"> <li>1) Select Pollutant “<b>LEAD</b>” in Control Pathway</li> <li>2) Select Averaging Time “<b>Month</b>”</li> <li>3) Specify <b>Source Groups</b> you want to analyze</li> <li>4) Specify the <b>POSTFILE option for each Source Group</b>. Make sure the format type is <b>PLOT (ASCII)</b>, not the UNIFORM (Binary). LEADPOST will only work with ASCII type POSTFILES.</li> <li>5) <b>Run</b> the <b>AERMOD</b> model</li> <li>6) Select <b>Tools   LEAD Post-Processor</b></li> <li>7) Review the input data. You will notice that all input data for your project was automatically recognized and loaded.</li> <li>8) Press the <b>Process</b> button. After processing finished, close the utility.</li> <li>9) The 3-month rolling average maximum concentration file is automatically loaded into AERMOD View Plots list and is displayed as contours.</li> </ol>

Topic	Feature Description
Run	<p><b>Option Not to Display Messages</b></p> <p>A warning message was introduced with AERMOD View Version 6.8.0 which is displayed after the model finished running. In case Warnings and/or Error messages are found in the main output file, this message was always displayed. Starting in AERMOD View Version 7.0, you are able now turn on/off the display of this message after the run.</p>  <p>The option for displaying the run messages can be turned on/off under the <b>Preferences</b>.</p> 

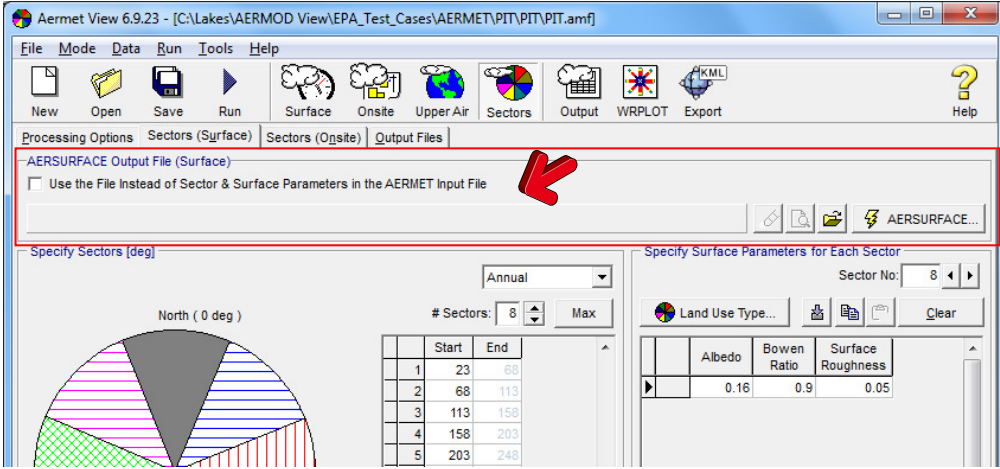
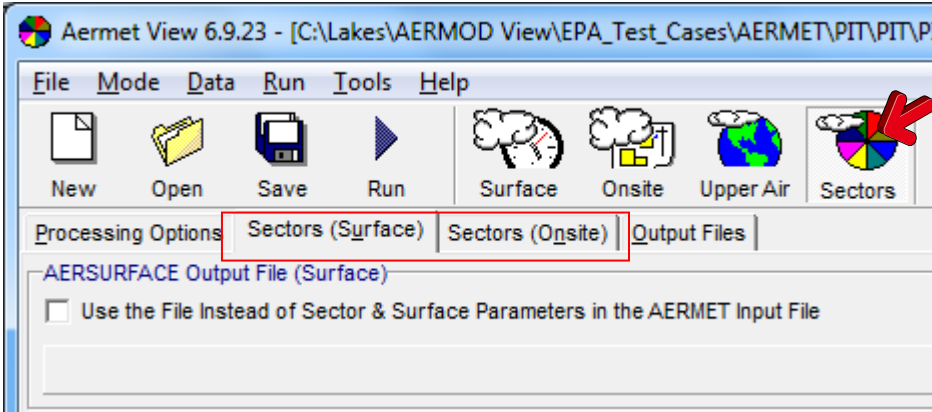
Topic	Feature Description
<b>AERMET View</b>	<p><b>1-Minute ASOS Data Option</b></p> <p>Introduced with AERMET Version 11059, you can specify the hourly averaged winds derived from 1-minute ASOS wind data pre-processed by the US EPA AERMINUTE program.</p> <p>The hourly averaged wind speed and direction generated by the AERMINUTE program can be merged with data from standard surface files (such as TD-3505/ISHD), along with upper air and onsite data (if available) in Stage 2 of AERMET processing.</p> <p>In AERMET View, this option is available under the <b>Surface</b> section – <b>ASOS-1 Minute</b> tab.</p> 
<b>AERMET View</b>	<p><b>AERMINUTE Utility</b></p> <p>The US EPA released AERMINUTE (Version 11059) on April 8, 2011. AERMINUTE is a program that processes 1-minute Automated Surface Observing Stations (ASOS) wind data available from the National Climatic Data Center (NCDC) in the TD-6405 format.</p> <p>AERMINUTE generates hourly averaged wind speed and wind direction to supplement the standard hourly ASOS observations used in AERMET to improve the number of calms and missing winds.</p> <p>In AERMET View, you have access to the <b>AERMINUTE Utility</b> under the <b>Surface</b> section – <b>ASOS-1 Minute</b> tab and by pressing the <b>AERMINUTE</b> button.</p> 

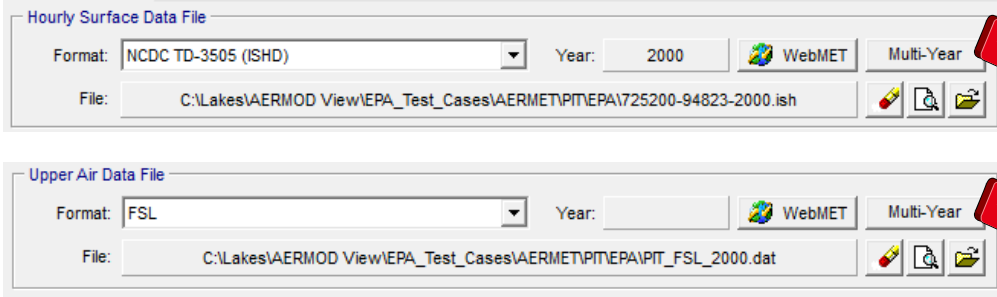
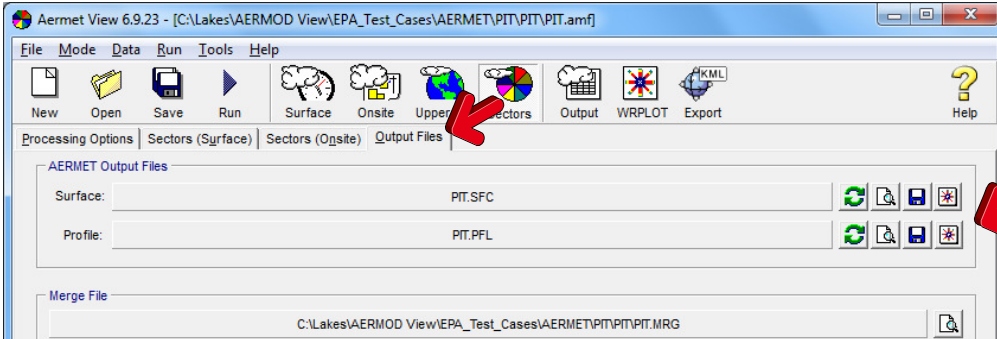
Topic	Feature Description
	 <p>The screenshot shows the AERMINUTE Utility window with the following sections:</p> <ul style="list-style-type: none"> <li><b>Processing Period:</b> Start Year: 2000, Start Month: January, End Year: 2000, End Month: December. There is a checkbox for "Station is Part of the Ice Free Environment Group (FW)" and a "Commission Date" field.</li> <li><b>Specify 1-Minute ASOS Wind Data (TD-6405 / DSI-6405):</b> # of Files: 12. A table lists files for Station ID 94823 from January to July 2000, all pointing to the same file path: C:\Lakes\AERMOD View\EPA_Test_Cases\AERMET\PT\EPA\64050KPI.</li> <li><b>Specify Hourly Surface Data - ISHD (TD-3505 / DSI-3505):</b> # of Files: 1. A table lists a file for Station ID 94823 from January to December 2000, pointing to the file path: C:\Lakes\AERMOD View\EPA_Test_Cases\AERMET\PT\EPA\725200-94.</li> </ul>



Topic	Feature Description
<b>AERMET View</b>	<p><b>Upper Air Estimator Updated</b></p> <p>Lakes Environmental <b>Upper Air Estimator</b> was updated according to latest US EPA AERMET Version 11059.</p> <p>The <b>Upper Air Estimator</b> is a Lakes Environmental tool and it is not part of the official US EPA AERMET code.</p> 
<b>AERMET View</b>	<p><b>FREE Format Option for Onsite Data Records</b></p> <p>You can now specify your onsite data records as free-formatted, using keyword FREE. The AERMET model reads date fields as integers (Fortran "I" format) and all other variable as REAL format (Fortran "F" or "E" format)</p> 
<b>AERMET View</b>	<p><b>New Upper Air Sounding Options</b></p> <p>Introduced with AERMET Version 11059, you can now select the most appropriate sounding based on local sunrise. This is an important feature for modelers doing projects beyond North America.</p> 



Topic	Feature Description
<b>AERMET View</b>	<p><b>Option to Specify AERSURFACE Output File</b></p> <p>The option to specify the AERSURFACE output file directly into the AERMET input file for Stage 3 is now available.</p> 
<b>AERMET View</b>	<p><b>Surface Parameters for Secondary Station</b></p> <p>Introduced with the US EPA AERMET Version 11059, you are required to specify a secondary set of surface characteristics when winds from NWS surface station are substituted for missing onsite winds.</p> 

Topic	Feature Description
<b>AERMET View</b>	<p><b>Ability to Specify Multiple Year Files</b></p> <p>The <b>Multi-Year</b> button for surface and upper Air files launches the <b>Multi-Year Data</b> utility from where you can select multiple files to be combined into one multi-year file. After files are combined, the multi-year file is automatically loaded into your AERMET View project.</p>  <p>The screenshot shows two data entry sections. The 'Hourly Surface Data File' section has a 'Format' dropdown set to 'NCDC TD-3505 (ISHD)', a 'Year' field set to '2000', and a 'File' field containing a path to an .ish file. The 'Upper Air Data File' section has a 'Format' dropdown set to 'FSL', an empty 'Year' field, and a 'File' field containing a path to a .dat file. In both sections, the 'Multi-Year' button is highlighted with a red arrow.</p>
<b>AERMET View</b>	<p><b>New Output File tab Available</b></p> <p>A new tab is now available under the <b>Sectors</b> section. From the Output Files tab you have easy access to the output files created by the AERMET model. You can change the output name, view the results in grid format, and visualize the wind rose.</p>  <p>The screenshot shows the AERMET View 6.9.23 application window. The 'Sectors' menu item in the top toolbar is highlighted with a red arrow. Below the toolbar, the 'Output Files' tab is selected and highlighted with a red arrow. The 'Output Files' tab displays a table of output files with columns for 'Surface', 'Profile', and 'Merge File'. The 'Surface' column shows 'PIT.SFC', the 'Profile' column shows 'PIT.PFL', and the 'Merge File' column shows a path to a .MRG file. The 'Output Files' tab is also highlighted with a red arrow.</p>