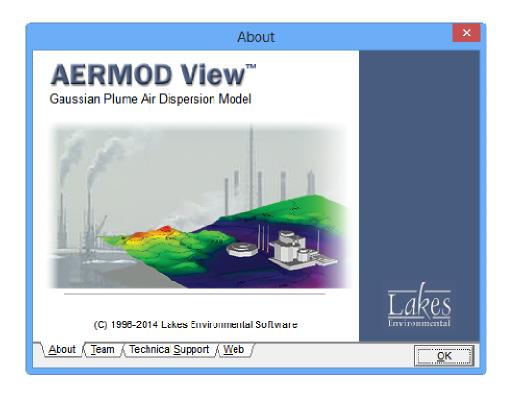
AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

Release Notes

Versions 8.5, 8.6, 8.7, 8.8, and 8.8.9



Lakes Environmental Software

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AERMOD View™ Version 8.8.9

Release Notes

November 20, 2014

New Features

Topic	Feature Description
Terrain	Change to NED Terrain Download
Processor	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	Regional Settings & Non-Unicode Characters
View	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	EVENT Model Run
View	Fixed an issue which prevented the EVENT Model run from executing.
Multi-	Meteorological Data Folder Path
Chemical Run	Fixed an issue that pointed Batcher to the wrong folder path to find the meteorological data files when performing Multi-Chemical runs.
Source	Line Area Source Emissions
Pathway	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	Sectors Tab
View	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	Import Surface Data from Excel
View	The utility was updated to properly read columns containing date and time information.
AERMET	Range Check Error
View	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

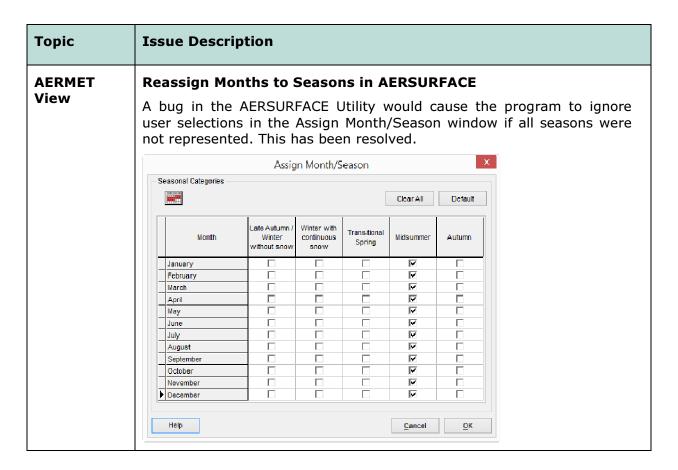
Topic	Feature Description
Models	New AERMINUTE Executable A new version of the US EPA AERMINUTE utility, dated 14237, was released on August 28, 2014. The new executable has been incorporated into AERMET View.
Met Pathway	Added Data Period Validation Additional quality assurance checks were added to 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	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: 12/31/1988 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. Vary Ozone by Downwind Sector # Sectors: 6 Max Start 0 30 90 210 295 360 6
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. Vary Background by Downwind Sector # Sectors: 6 Max Start 0 30 90 210 295 360 End 30 90 210 295 360 0
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).





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.



AERMOD View™ Version 8.7

Release Notes

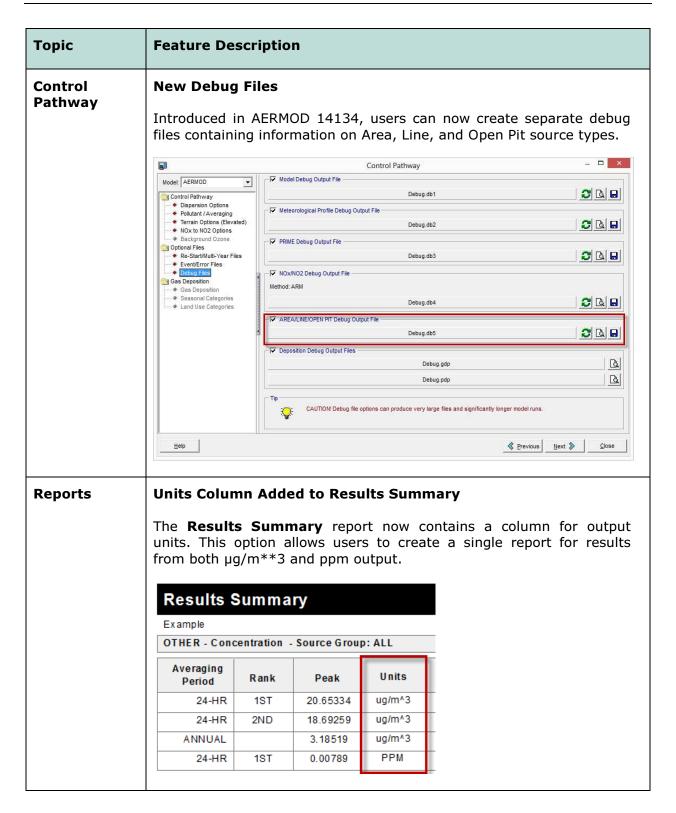
June 4, 2014

New Features

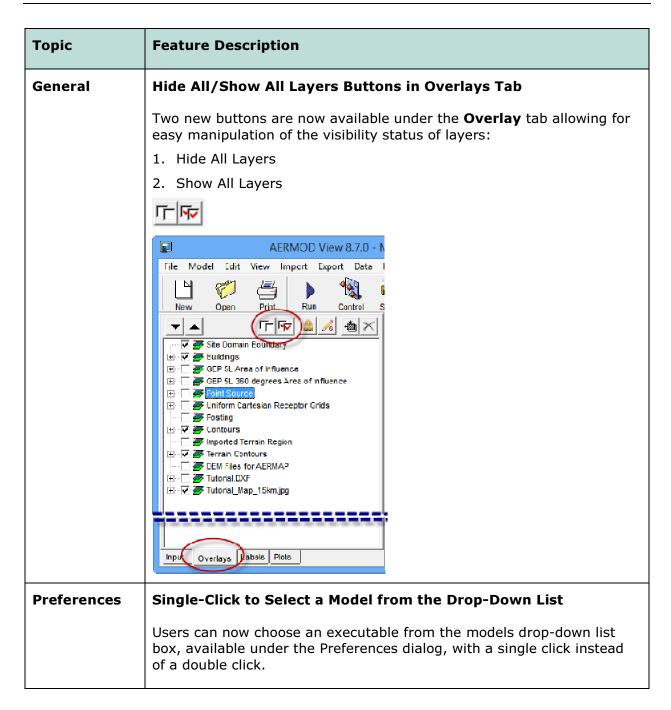
Topic	Feature Description
Models	Latest Releases of US EPA Models Available The following US EPA Models were released since May 2014 and are incorporated into AERMOD View Version 8.7: 1. AERMOD Model 14134 (Released May 2014) 2. AERMET Model 14134 (Released May 2014)
	Note: AERMOD 14134 will not run using met data created using AERMET 11059 or earlier . Old met data must be re-processed using a more recent version of AERMET (preferably 14134) or the modeler must use an older version of the AERMOD model.
AERMOD MPI	New Version of Lakes AERMOD MPI 14134 (Parallel Version) A new version of the Lakes AERMOD MPI for the US EPA Model Version 14134 is now available (AERMOD_MPI_Lakes_14134.exe). You can specify to use this model under the Preferences dialog. Note: AERMOD_MPI_LAKES_14134.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (14134) in parallel mode using up to a maximum of 8 cores.
	Preferences AERMOD Executable General Appearance Download Settings World Map Settings System Editor FPA Models/l imits AERMOD AERMOD AERMOD Description Storage Limit AERMOD Description Storage Limit

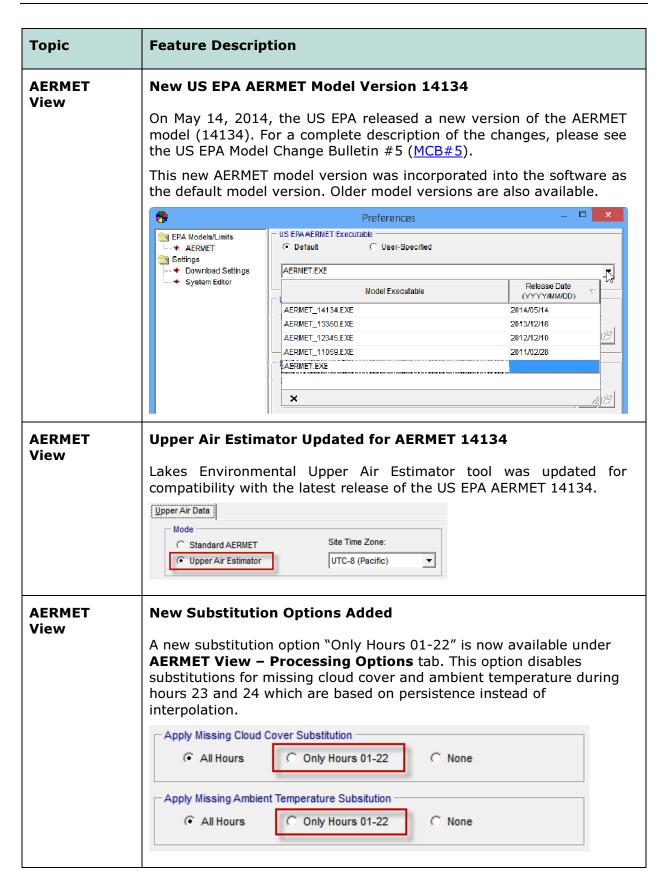


Topic	Feature Description
Control Pathway	New Pollutant/Averaging Options
	The Pollutant/Averaging options window has been redesigned to incorporate new options for 1-hour NO ₂ , 1-hour SO ₂ , and 24-hour PM _{2.5} analyses. The new display features new 1-Hour Average Options:
	• 1-Hour NO ₂ /1-Hour SO ₂ /24-Hour PM _{2.5} US NAAQS: This option corresponds to special processing which calculates multi-year averages of daily maximum 1-hour (for NO ₂ & SO ₂) or maximum 24-hour (for PM _{2.5}) for specific percentiles.
	 1-Hour NO₂/1-Hour SO₂/24-Hour PM_{2.5} Non-NAAQS: This option adds an additional option to the POLLUTID mode keyword – H1H, H2H, or INC. Use of the new option disables the US EPA NAAQS processing routines associated with these pollutants/averaging combinations.
	Control Pathway - 🗆 🗵
	Modet: AERMOD Control Pathway Dispersion Options Modet: Averagetis Type: S02 Type: S02
	→ NOX to NO2 Options → Background Ozone Averaging Time Options Dispersion Coefficient
	□ Optional Files → Re-Start/Multi-Year Files → EventiError Files □ 2-Hour □ 8-Hour □ Berind □ Urban
	Debug Files 7 7 3-Hour 12-Hour or
	→ Debug Files Gas Deposition → Land Use Categories → Land Use Categories
	Debug Files Gas Deposition Gas Deposi
	Debug Files Gas Deposition Gas Deposi



Topic	Feature Description
New Project Wizard	Automatically Import OpenStreet Map Imagery
	When starting a new project through the New Project Wizard, users can select an option to automatically import tile map imagery from the OpenStreet Map tile server.
	Radius for Modeling Area 5.000 [km] Check
	Import OpenStreet Map
	Note: This feature is only available for in-maintenance users.







Fixed Issues

Topic	Issue Description
Reports	Building Downwash Included Fixed a bug which omitted Building Downwash information from the "Source Pathway (Other)" report.
MAXTABLE Viewer	Support for Extra Characters in Source Group IDs Resolved an issue which prevented the MAXTABLE Viewer from reading Source Group IDs which began with a hashtag (#) character.
Batcher	Fixed Deletion of AERMOD.INP File Prevents deletion of input files named "aermod.inp" if that is the user-assigned name for the input file added to the Batcher list. Note: If multiple input files from the same working directory are added to Batcher, unique-named input files will still be renamed AERMOD.INP to initialize the call to the AERMOD executable and will be subsequently deleted.

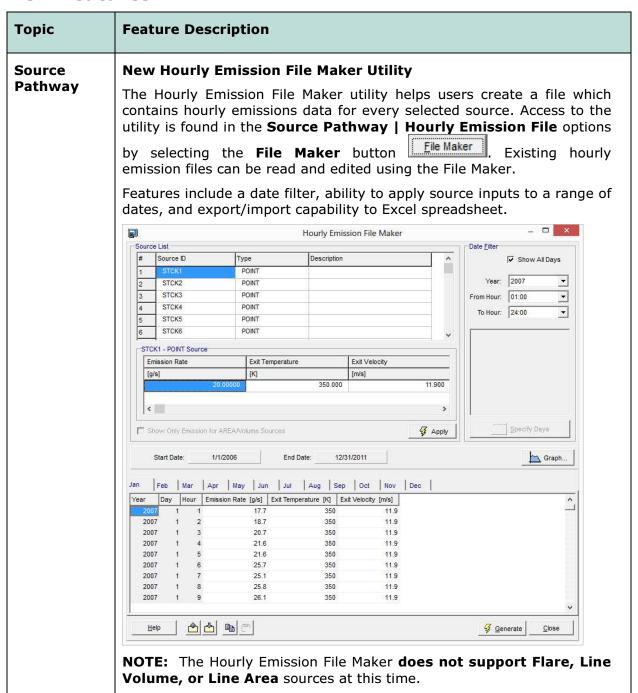


AERMOD View™ Version 8.6

Release Notes

May 7, 2014

New Features

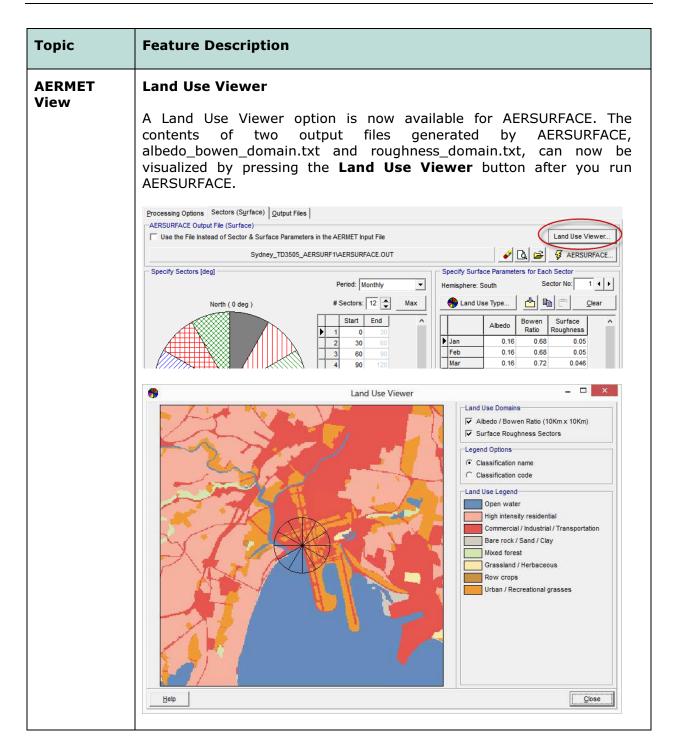




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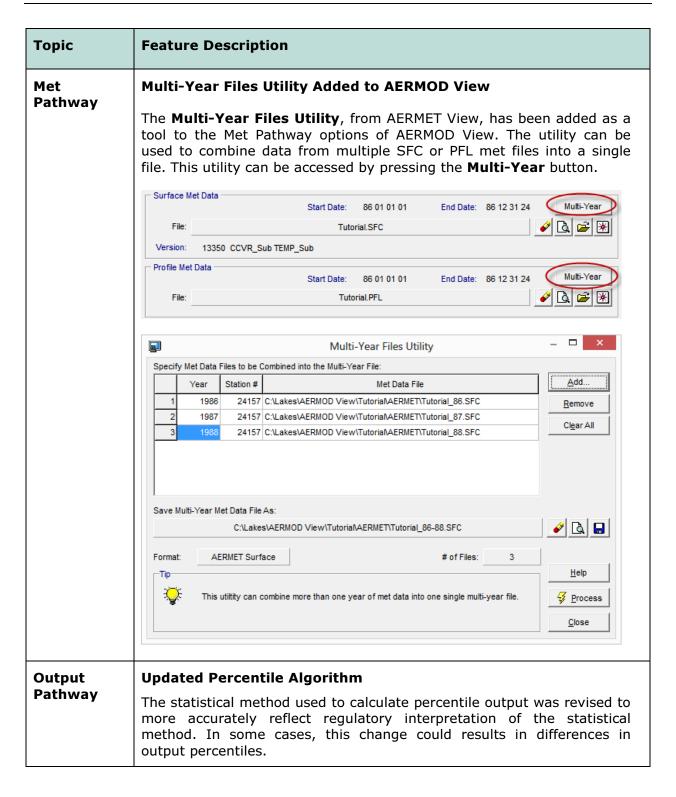
Topic Feature Description Source **Hourly Emission Graph Pathway** The Hourly Emission File Maker utility includes an Hourly Emission Graph feature. Varying input parameters can be displayed as a line graph or in tabular format. _ 🗆 × Hourly Emission Graph **3 3** Source: STCK1 Emission Rate [g/s] Exit Temperature [K] 140 120 100 Time (hrs) Emission Rate [g/s] <u>H</u>elp Building **New Sloped Roof Utility** Inputs New utility which allows users to automatically create multiple building tiers based on the defined top and bottom tier to create the appearance of a sloped roof. See this feature under the Building Inputs dialog, Sloped Roof button. Generated Tiers 3D View

Topic Feature Description AERMET New Land Use Creator Utility View The Land Use Creator allows you to easily create land use files in NLCD92 format which can be used to calculate surface roughness, albedo, and Bowen ratio for any location world-wide using the U.S. EPA **AERSURFACE** utility. The utility can import data from existing NLCD92 GeoTIFF (.TIF), NLCD92 Binary (.BIN), and GLCC (.IMG) land use files. Base maps and Tile maps can also be imported to further refine land use selections. Define areas by individual cells or by selecting multiple cells with the selection tools. You can access this utility by selecting the menu option Tools | Land **Use Creator.** _ 🗆 × Land Use Creator 77000 -6000 -5000 -4000 -3000 -2000 -1000 0 1000 2000 3000 4000 5000 6000 7000 View Import Export Output Tools Station Coordinates 151.173056 ° 8 6 Long: E 8 W Land Use Grid Settings ⊕ 00 Origin: Centre • -15.0 [m] Q X Coord.: -15.0 [m] Φ 2000 Cell Size: \$ 8-# Cells Y: 400 • ₽ 0-Land Use Code Selection (NLCD92) -当 Select Area Unassigned **(1)** 7 4000 File: C:\...\LUC\Sydney_Onsite\Sydney.tif 🗳 😅 Author: Lakes 0 [™] Import WebGIS WebGIS MebGIS Meb Editor Overlays Transparency Level: O Transparent • <u>H</u>elp Save Close



Topic	Feature Description
Overlays	Additional Overlay Tools
	Two additional overlay tools are now available:
	1. Disable selection
	2. Disable graphical editing
	These tools will help you disable certain overlays when using the select tool to edit or move objects in the graphical area.
	File Model Edit View Import Export (
	New Open Print Run Conti Site Domain Boundary Gers St. Area of Influence Joint Source Joint Cartesian Receptor Grids Posting Footnurs Totorial DXF Tutorial DXF Map Quest (Satellite) Tutorial Map 1.5km.jpg
	Input Overlays Labels Plots
Source Pathway	Vertices Range Check for Circular Area Sources
i aciiway	Added a range check for the Number of Vertices field with circular area sources. There must be at least 3 vertices to create the source.

Topic	Feature Description
Receptor Pathway	Import / Export Plant Boundaries to Excel Plant boundaries can now be exported to an Excel spreadsheet (.XLS) in addition to the existing Comma-Separated File (CSV) and Blanking File (.RPB) options. Use the Export Plant Boundaries menu option or select the Export button in the Receptor Pathway window. Plant boundaries can also be imported from an existing Excel spreadsheet. A template is included in C:\Lakes\AERMOD View\Templates\Plant-Boundaries.xls. Export Data Run Output Risk AEI Copy to File Copy to File Sources Buildings / Stacks to DXF Pathway to File Plotfile to Surfer Shapefiles Google Earth Shapefiles Google Earth



Topic	Feature Description							
Reports	Results Summary Displays Averaging Period							
	Results created using the Concentration Converter utility will their new averaging periods displayed in the Results Summary rep							
	Results S	umma	ry					
	XYZ Company			=				
	SO2 - Concent	ration - So	urce Group: AL					
	Averaging Period	Rank	Peak					
	3-I IR	1ST	32.67619					
	24-HR	19T	19.06537					
	3-HR	2ND	29.23302					
	24-HR	2ND	19.75017					
	ANNUAL		4.86354					
	15-MN	1ST	53.71150					
Map Projection	New Datum Option for Australia – GDA94 The Geocentric Datum of Australia 1994 (GDA94) datum was added to list of available datum.							
LEAD Post-	Incorporated latest LEADPOST Executable							
Processor	Updated the LEADPOST executable to Version 13262.							
Batcher	User-Defined Units Added to Plot Files Created with Batcher							
	When performing runs through Batcher as a stand-alone application, changes to the default Emission Output Label selection are now reflected in the comment lines at the end of the contour plot files.							
Batcher	Expanded	Path L	ength for	External Files				
	Path lengths for HOUREMIS and background data files were expanded to allow up to 200 characters.							

Topic	Feature Description							
AERMET View	lect Text Editor							
view	AERMET View now includes the option to choose which text editor is used to open project files. The selection is made under Preferences Settings System Editor .							
	You may choose between the two pre-defined text editors, WordPad and Notepad , or use the User-Specified Editor option to select any text editor installed on your machine.							
	Preferences							
	EPA Models/Limits AERMET Settings Download Sattings NOTEPAD User-Specified Editor System Editor System Editor							
AERMET	No Seasonal Option in AERSURFACE for Southern Hemisphere							
View	When running AERSURFACE for projects located in the Southern Hemisphere (in conjunction with the new Land Use Creator utility), the Seasonal period option has been removed. This was done to reduce confusion as AERSURFACE defines seasons using Northern Hemisphere conventions (e.g., winter = Dec, Jan, Feb). Users with Southern Hemisphere projects can still use the Annual or Monthly options for defining surface characteristics.							

Topic Feature Description AERMET New Layers in Google Earth Export View When exporting data to Google Earth from AERMET View, the program now exports layers based on whether AERSURFACE was used or not. For projects using AERSURFACE, the surface roughness radius (default 1-km) will be used and the user-defined sectors drawn. The 10-km x 10-km domain used to calculate Bowen ratio and albedo are also displayed. Projects not using AERSURFACE will have a 3-km radius around the met station displayed. _ 🗆 × Google Earth File Edit View Tools Add Help ▼ Search Search Get Directions History ▼ Places My Places Sightseeing Tour Make sure 3D Buildings layer is checked ☐ ☑ S Temporary Places ☐ ☑ S AERMET View - Sydne... ☐ ☑ Ø Onsite Station Onsite Station + + Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2014 Sinclair Knight Merz □ 🌣 Weather

Fixed Issues

Topic	Issue Description					
Control Pathway	Incorrect NO2 Conversion Option Selected					
Patnway	The NOx to NO2 conversion option defaulted to 'None (Full Conversion)' instead of OLM or PVMRM when opening existing projects. The fix now identifies the proper conversion option.					
Tile Maps	Open Street Map Failed to Load					
	A change in the Open Street Map configuration caused the maps to fail to load from the Tile Maps server. This has been resolved in AERMOD View Version 8.5.1 and up.					
Tile Maps	MapQuest Satellite Map Failed to Load					
	A change in the MapQuest Satellite Map configuration caused the maps to fail to load from the Tile Maps server. This has been resolved.					
Plots	MAXDCONT Plot File Missing					
	Fixed an issue which prevented plot files associated with the MAXDCONT keyword from being displayed in the Plots tree menu.					
ВРІР	Source ID Warning Message					
	Updated the Details dialog to warn users when source IDs contain 9 characters (BPIP-PRIME only allows 8-character source IDs). Previous versions only warned users when the source ID was 10 or more characters.					
AERMET View	Temporary File Error (TmpScript.sql)					
VICVV	Some users creating new projects in AERMET View Version 8.5 received an error which prevented the project from being created. A fix was implemented which removed a temporary file requirement (TmpScript.sql).					



AERMOD View™ Version 8.5

Release Notes

January 21, 2014

New Features

Topic	Feature Description						
Models	Latest Releases of US EPA Models Available The following US EPA Models were released since December 2013 and are incorporated into AERMOD View Version 8.5: 3. AERMOD Model 13350 (Released Dec 2013) 4. AERMET Model 13350 (Released Dec 2013)						
	Note: AERMOD 13350 will not run using met data created using AERMET 11059 or earlier . Old met data must be re-processed using a more recent version of AERMET (preferably 13350), or the modeler must use an older version of the AERMOD model.						
AERMOD MPI	New Version of Lakes AERMOD MPI 13350 (Parallel Version) A new version of the Lakes AERMOD MPI for the US EPA Model Version 13350 is now available (AERMOD_MPI_Lakes_13350.exe). You can specify to use this model under the Preferences dialog. Note: AERMOD_MPI_LAKES_13350.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (13350) in parallel mode using up to a maximum of 8 cores.						
	Preferences Preferences AERMOD Executable Default User-Specified AERMOD_MPI_LAKES_13350.EXE APPROD_MPI_LAKES_13350.EXE # MPI Processes: 2 # MPI Processes: 2 Storage Limits Parameter Name Description Storage Limit						



Topic Feature Description Control **New NO2 Modeling Methods Pathway** The U.S. EPA incorporated two new options for modeling NO2: the Ambient Ratio Method (ARM) and the Ambient Ratio Method - 2 (ARM2). ARM can be modeled as a Regulatory Default option while ARM2 is a non-default BETA option. Conversion Methods ARM2 Options C None (Full Conversion) Minimum NO2/NOx Ratio: 0.200 Maximum NO2/NOx Ratio: 0.900 C ARM (ARM2 (BETA) Tier 3 C OLM C PVMRM Control **Vary Background Ozone by Downwind Sector Pathway** Introduced with AERMOD 13350, background ozone concentrations can now vary by downwind sector. Sectors are defined by the flow vector (direction the wind blows towards). The original background ozone variance options (including hourly emission files) are applied to each individual sector. _ 🗆 × Control Pathway ─ Vary Ozone by Downwind Sector Model: AERMOD # Sectors: 2 Max Start • Control Pathway 120 Dispersion Options End Downwind Sectors 300 Pollutant / Averaging Sector 1 Sector 2 North (0 dea) Terrain Options (Flat) NOx to NO2 Options - ☐ Hourly Ozone Data File Background Ozone Optional Files Re-Start/Multi-Year Files File: ◆ Event/Error Files Units: µg/m^3 → Debug Files Specify Ozone Background Concentrations Gas Deposition Gas Deposition Seasonal Categories Type: By Year (ANNUAL) (OZONEVAL) → Land Use Categories 03 Value: 55.0 [PPB] The options available under the "Type" drop-down list of the value(s) will be use to substitute for hours with mis <u>H</u>elp Close <u>H</u>elp



Topic	Feature Description									
Control Pathway	Background Ozone Options Moved The Background Ozone options used with the OLM and PVMRM model options have been relocated to their own window (CO Pathway – Background Ozone).									
Control Pathway	New Debug Files Introduced in AERMOD 13350, files containing: • PRIME downwash parame • Gas and particle deposition • NO2 model options (OLM,	eters, on output, and								
	■ Co	ontrol Pathway	_ 🗆 ×							
	Model: AERMOD	Model Debug Output File ARIM2 db1								
	Control Pathway ◆ Dispersion Options ◆ Pollutant / Averaging ✓ Meteorological Profile Debug Output									
	Terrain Options (Flat) NOx to NO2 Options Background Ozone	ARM2.db2								
	Optional Files Re-Start/Multi-Year Files Event/Error Files Debug Files Gas Deposition	ARM2.db3								
	◆ Gas Deposition ◆ Seasonal Categories ◆ Land Use Categories Method: ARM2	ARM2.db4	CAR							
	□ □ Deposition Debug Output Files	GDEP.DAT								
		PDEP.DAT								
	Tip CAUTION Debug file optio	ons can produce very large files and significantly longer	model runs.							
	Help									
Source Pathway		ources can now be ojects using the Lake Details are included i	exported to and es Format Template in the Help file. X3							

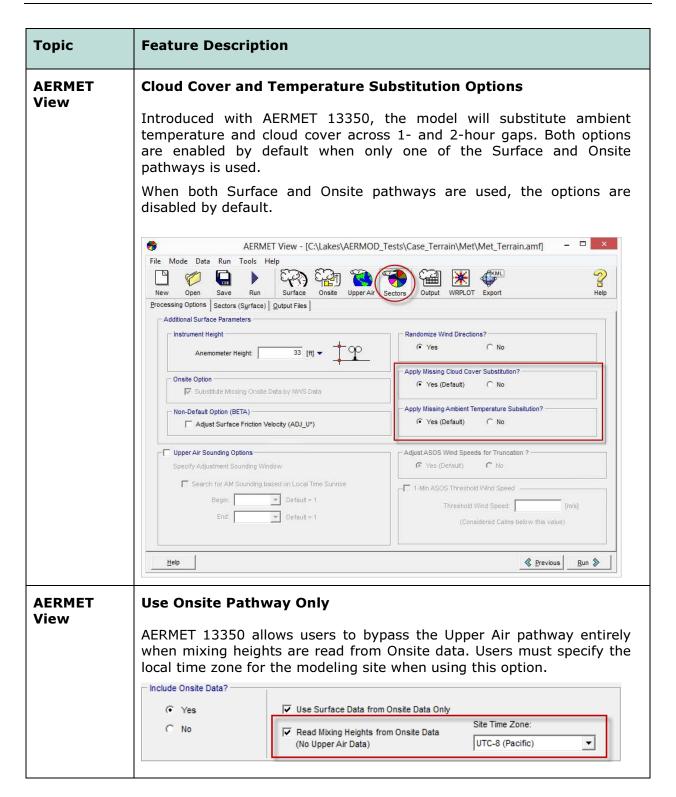
Topic Feature Description Source Vary Background Concentrations by Downwind Sector **Pathway** Introduced with AERMOD 13350, background concentrations can now vary by downwind sector. Sectors are defined by the flow vector (direction the wind blows towards). The original background variance options are applied to each individual sector. _ 🗆 × Source Pathway ✓ Vary Background by Downwind Sector — Model: AERMOD • Source Parameters Source Summary End Building Downwash Sector 1 | Sector 2 | Sector 3 | **Downwind Sectors** Background Conc Specify Hourly Background Concentration File Source Options North (0 deg) Source Groups Urban Groups Variable Emissions Format: Default (Free Format) 🕶 Hourly Emission File Emission Output Unit Hourly File and Background Concentration Units NOx to NO2 Options In-Stack NO2 / NOx Ratios Units: ug/m^3 • ◆ OLM Groups (OLM) ◆ PSD Groups (PVMRM) Specify Variable Background Values Type: By Month (MONTH) Background Concentration - By Month (MONTH) February March April June <u>H</u>elp Close Apply Clear Table Source **New Line Volume Source Configuration Pathway** Adds a third configuration to line volume sources: **Separated 2W**. This option follows the original ISCST3 model guidance for placement of separated volume sources (center-to-center distance = 2 * length of side). The existing **Separated** method is still available. This method places sources at the start and end nodes then calculates an even center-tocenter distance for all other sources along the line.

Topic	Feature Description					
Source Pathway	Modified Seasonal Labels for Southern Hemisphere When the Map Projection is set to the Southern Hemisphere, all seasonal labels (e.g., Background Concentrations, Variable Emission Rates) are reversed and display what months apply to each value. Variable Emission Factors - by Season / Hour (Scenario 2) The Emission Factor is a multiplier of the emission rate you specified for the source Season Hour (Ending of Summer Fall Winter Spring Hour Period) (Dec, Jan, Feb) (Mar, Apr, May) (Jun, Jul, Aug) (Sep, Oct, Nov)					
Printouts	Maximum Value Decimal Places The maximum value field shown in the Printout is now controlled by the "No. Decimal Places" field in the Graphical Options Contours Color Ramp settings. The full maximum value to 5 decimal places is still displayed in the Contours Panel. PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL Wax 32.7 [Ug/m³] (442023.00, 5300264.00) DATE 1:166,770 COMMENTS SOURCES COMPANY NAME 2 RECEPTORS MODELER: 961 OUTPUT TYPE: SCALE 1:166,770 COMPANY NAME 2 RECHARDO View: Lakes Environmental Software CULakes MARPINDO View: Lakes Environmental Software CULakes Environmental Software C					
AERMOD 3D	Visualization and Control Enhancements The AERMOD 3D View has been updated to include several new features: • Quick-zoom to sources and buildings using new toolbar button • Introduces vertical exaggeration scale Vertical Exaggeration: • New mouse controls: left-click and pan to change viewing angle, right-click and pan to change center point.					



Topic	Fea	Feature Description										
Met View	Exp	Export SFC & PFL Files to CSV and Excel										
	CSV	Surface (.SFC) and Profile (.PFL) files can be exported from Met View to CSV or Excel spreadsheet. The exported file contains all column headers and unit descriptions.										
	<u></u>	Exp	ort	butt	on	is avai	ilable i	in Met	View win	idow.		
	_ A	В	С	D	E	F	G	Н	I	J	K	L
						Sensible		ve	Vertical Potential Temperature		Generated	Monin-
	1 Yea	ar Month	Day	Julian Day		Heat Flux	Velocity	_	Gradient above PBL	Boundary Layer - PBL	Boundary Layer - SBL	Obukhov Length
	2					W/m^2	m/s	m/s		m	m	m
	3 19		1					_				83.6
	4 19 5 19		1 1									6.4 -99999
	6 19		1					_	_			
	7 19	86 1	. 1	1	. 5	-12.9	0.236	-9	-9	-999	263	83.8
	8 19		. 1	_					_			
	9 19		1 1			-12.9 -8.1			_			
	11 19		1	_					_			
	12 19		1	1	10				-9			
AERMET View	On AER	Dece MET	mt m	oer 1	l6, (1:	2013, 3350).	, the For	US EF a com	iplete de	ed a nev	w version of the c #4).	

Topic	Feature Description									
AERMET View	Preferences Option for AERMET Model Version									
	AERMET 13350 was added as the default model version. The Preferences menu was modified to include a drop-down menu for model executable selection. You can select from AERMET 13350 (the default and recommended), AERMET 12345, or AERMET 11059.									
	The AERMET View Project Status dialog will display the model version being used when you run AERMET.									
	AERMET View interface for backward compatibility; however modelers should always use the latest versions of the US EPA models. Preferences Preferences US EPA AERMET Executable O Default O User-Specified									
	Settings — → Download Settings AERMET_13350.EXE									
	Model Executable Release Date CYYY/MM/DD)									
	AERMET_13350.EXE 2013/12/16 AERMET_12345.EXE 2012/12/10 AERMET_11059.EXE 2011/02/28									
	X X									



Topic Feature Description Sectors Modifications AERMET View The **Sectors** options have been modified to make inputs more transparent for projects located in the Southern Hemisphere where seasons are reversed from AERMET defaults. The Hemisphere (North or South) is noted Season definitions are now listed as the month range instead of the season name. Specify Surface Parameters for Each Sector Sector No: 1 4 F Hemisphere: North Land Use Type... Clear Bowen Surface Albedo Ratio Roughness DEC-FEB 0.5 1.5 0.5 MAR-MAY 0.12 0.7 1 Ε JUN-AUG 0.12 0.3 1.3 SEP-NOV 0.12 1 8.0 **AERMET Added Version and Date Period Details** View The Output Files tab now includes version number and options, selected model options, start date, and end date for the Surface and Profile files. - AFRMET Output Files Version: 13350 CCVR_Sub TEMP_Sub Start Date: 10 01 01 01 End Date: 10 12 31 24 Surface: Met_Terrain.SFC Start Date: 10 01 01 01 End Date: 10 12 31 24 **②** 🚨 🗷 Met Terrain PFI Profile: **AERMET Upper Air Estimator Updated for AERMET 13350** View Lakes Environmental Upper Air Estimator tool was updated for compatibility with the latest release of the US EPA AERMET 13350. Upper Air Data Mode C Standard AERMET Site Time Zone: Upper Air Estimator UTC-8 (Pacific) ▾

Fixed Issues

Topic	Issue Description				
Save Project As	Renamed Met Data Files When meteorological data files had an identical name to a project, the file names were changed when running the Save Project As menu option. The option now maintains the original path to the met data files.				
Control Pathway	Ozone File Maker Update The "Auto Populate for Missing Hours" option in the Hourly Ozone Concentration File Maker utility was removed. When building the file, the utility automatically adds a missing indicator (-99) to all blank cells. Confirmation The Concentration data file has been created. File: C:\Users\lakes\Desktop\13350\OLM\OLM\DLM.tot Note: a missing indicator "-99" was applied to any hours with non-defined concentration values. Do you want to view this file?				
Source Pathway	Gas & Particle Data Fixes Fixed a bug which did not write deposition parameters to sources with IDs longer than 10 characters. Also fixed an issue with the Copy and Paste functions.				
Source Pathway	Line Volume Source Coordinates Expanded the number of source node coordinates written to the model input file so coordinates of individual sources along the line can be recreated.				
Reports	Missing Fields Fields like Pollutant Type in the Control Pathway report went missing for certain values. This has been fixed.				
Contours Panel	Shortened Plotfile List Removed the full project folder path from the Plotfile List menu to make file names shorter. Previous versions occasionally had issues with paths that extended beyond the available space.				



Topic	Issue Description					
Color Ramp	Duplicate Title Fixed an issue with the original Color Ramp title remaining after renaming.					
WRPLOT View	 Miscellaneous Updates Updates include: New default "Files of type" set to All Files when adding files Setting Wind Classes display to show 2 decimal places and refined conversions between m/s and knots. Bug fixes to the Data File Info panel when multiple files or years of data are analyzed. Fixes include displaying the proper number of missing records and total number of hours when the Date Range is modified. Inclusion of February 29 in the Specify Days option when a leap year is present. All percentages normalized to the total number of hours. Previous versions would correct calm frequencies to remove missing records. Modification to reading TD-3505/ISHD files to match code from AERMET. The program now reads observations found between :30 of the previous hour and :01 of the current hour. Added XLSX support to the Import Surface Data from Excel utility. Modifications to the Years and Time Range fields to allow subsets of multiple years and overnight hours to be analyzed. 					