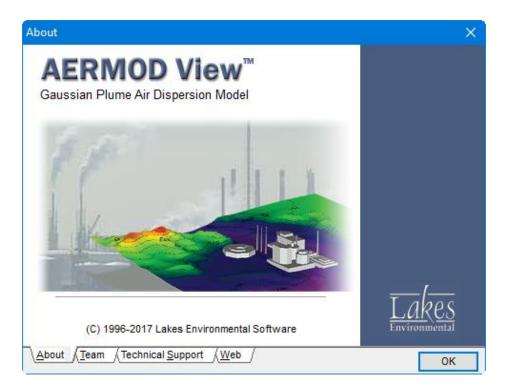


Gaussian Plume Air Dispersion Model - AERMOD

Release Notes

Versions 9.3, 9.4, and 9.5



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AERMOD View™ Version 9.5

Release Notes

September 18, 2017

New Features

Торіс	Feature Description									
Receptor Pathway	Sensitive Receptor Summary Report									
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		2 Sens_2	441783.14	5300031.14		579	103	6		
		3 Sens_3	442284.49	5300532.49	6	00.62	103	6		
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	1		13							



Торіс	Feature Description
Tile Maps	Updates to Open Cycle Maps The Open Cycle Maps server was updated to reflect the most up-to- date server settings and map hosts. Import Tile Maps Server Settings Map Server: Open Cycle Map (www.thunderforest.com) V New Layer Name: Open Cycle Map Add to List Hosts: a.tile.thunderforest.com/cycle b.tile.thunderforest.com/cycle
	<figure></figure>



Торіс	Feature Description
Plots	Zoom to Plot File The Plots Tree View now includes a Zoom to Plot File button to quickly zoom to the extents of a selected plot file. This was done to increase efficiency when moving around a modeling domain. Output Type: Concentration Group: ALL 3-HR (03H1GALL.PLT) 424-HR (24H1GALL.PLT) 424-HR (24H1GALL.PLT) 424-HR (24H2GALL.PLT) 424-HR (24H2GALL.PLT) 407 107 107 107 107 107 107 107 1
Graphical Options	New Layouts Functionality The Layout feature has been updated to include all Contours settings in a single Layout. Importing from or exporting to a Layout now includes all sub-headings under the Contours folder. All Layouts settings can be applied to multiple contour plots at one time. To apply settings to multiple plots, use Ctrl+Click on the Plots Tree View. Image: Select Layout Image: Stored Layouts: Image: Default-Layout Image: Help Cancel Select



Торіс	Feature Description
Reports	Expanded Decimal Values
	The numeric field format was updated for Source Pathway (Source Inputs) reports to include a minimum of two decimal places with each parameter.
	Source Pathway - Source Inputs
	Point Sources Source Source X Coordinate Y Coordinate Base Release Emission Gas Exit Gas Exit Stack Inside Type ID [m] [m] Enversion Height Rate Temp. Velocity Diameter
	vpe iv (m) (m) (optional) (m) (g/s) (p((m/s) (m) POINT STCK1 442023.00 5300264.00 583.37 60.00 1.00000 415.00 11.00 5.00
	POINT STCK2 442058.00 5300289.00 585.05 50.00 1.00000 350.00 10.00 1.00
Multi- Chemical	Support for Non-Consecutive Years
Run	The Multi-Chemical Run Utility now includes support for multi-year meteorological data files which contain non-consecutive years. The AERMOD model supports this so long as the gaps in meteorological data only span entire years.
Backup	AERMOD View's integrated project backup utility now includes all files produced via the Multi-Chemical Run Utility.
	Note: Because Multi-Chem relies on use of 1-hour average Post-
	Processing files (POSTFILE), Backing up the Post folder will lead to very large archive files. The POSTFILEs must be included to produce new contour plots in the future without executing AERMOD again.



Торіс	Feature Description
Import Buildings	 Updates to DXF Object Import The Import Buildings from DXF function was updated to better identify objects in the DXF file for better importing. Note: Not all DXF objects are recognized as buildings. AERMOD View imports line, polyline, and polygon objects. Line objects must have starting and ending points within 0.1 meter for the structure to be recognized.
Met View	Expanded SFC File Header Support Met View now supports the expanded Version information produced by AERMET 16216 including 1-minute threshold, adjusted u-star, and data substitution routines.



Fixed Issues

Торіс	Issue Description
Source Pathway	Hourly Emission File Source Order When preparing an hourly emission file via the Hourly Emission File Maker utility, AERMOD View now orders the sources according to the listing in Source Inputs to avoid fatal errors during the model run.
Source Pathway	Input File Build with Large Ozone Concentration Arrays When supplying Background Ozone data, the largest tables (e.g., By Month / Hour / Seven Days) would cause a failure when preparing the model input file. This has been resolved.
Receptor Pathway	Import Intermediate Plant Boundary Receptors with Flagpole When importing plant boundary receptors, flagpole heights will now be included with intermediate receptors.
Receptor Pathway	Export Nested Grid Receptors to CSV The Export to CSV option in the Actions menu of Nested Grid receptors was corrected to allow export of all generated receptors.
Output Pathway	Plot File Generation for Empty Percentiles AERMOD View produced an error message when projects contained no concentrations at some receptors while calculating percentiles.
Base Maps	DXF Offset When a DXF file was imported as a base map, any offset values applied were lost when the project was closed and subsequently re-opened. This has been resolved.
Base Maps	File Name Checks The check run on map file name were updated for files containing non- ANSI characters. These files are now converted to their standard DOS name during the import process.



Торіс	Issue Description
MAKEMET Utility	Fix for Assigning New File Names When assigning new file names to the PFL or Log files, an incorrect file extension was applied which prevented successful utility execution. This has been resolved.

Known Issues

Торіс	Issue Description
AERMOD 16216r	Receptor Order Bug There is a bug in the US EPA's code related to receptor exclusion when calculating PRIME downwash effects. There exists the potential for model results to change based upon the order of receptors in the input file.
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 View™ Version 9.4

Release Notes

May 11, 2017

New Features

Торіс	Feature Description			
Models	Updated AERMET Model 16216			
	The previous AERMET executable dated 16216 contained a bug which made it incompatible for 32-bit operating systems. The US EPA subsequently released an updated version of the model, and that update is now available in AERMET View.			
	NOTE: This change does not impact any data files produce using the previous AERMET 16216 model. It only restores 32-bit compatibility to the executable.			
New Project Wizard	New Import from AERMOD Input File Options			
	Starting new AERMOD View projects from existing AERMOD input files now allows users to include associated BPIP input files and contour plot files. This makes it easier to open AERMOD projects that were not originally created with AERMOD View.			
	NOTE: Contour plot files are imported from a folder location, so all plot files must be included in the same folder.			
	New Project Wizard ×			
	AERMOD Input File Import Options			
	AERMOD Input File:			
	C:\AERMOD\Example_Project\Example_Project.ADI			
	Import Buildings from BPIP Input File (Optional):			
	C:\AERMOD\Example_Project\Example_Project.bpi			
	Specify Folder where PLOTFILES are Located (Optional): C:\AERMOD\Example_Project\Example_ProjectAD			



Торіс	Feature Description	
New Project Wizard	Default Import of OpenStreet Map Tile Maps The option to automatically import the OpenStreet Map tile maps data is now selected by default when starting a new project. NOTE: Tile Maps are only available for users with a current maintenance agreement. Radius for Modeling Area Radius for Modeling Area Import OpenStreet Map	
New Project Wizard	New Range Checks for Starting Coordinates Checks were added to help avoid starting projects in an incorrect location. Conversion between UTM and Lat/Long values are now limited to valid UTM coordinate ranges.	
Met Pathway	Data Quality Added to the Surface Met Data Section The Surface Met Data section was expanded to include data quality information regarding the percentage of calms and missing hours. This information can assist users in determining if their data meets minimum requirements. Weteorology Pathway Weteorology Pathway Weterion: 16216 CCVR_Sub TEMP_Sub Version: 16216 CCVR_Sub TEMP_Sub Start Date: 16 01 01 1 End Date: 16 12 31 24 WetEVER Version: 16216 CCVR_Sub TEMP_Sub Start Date: 16 01 01 01 End Date: 16 12 31 24 WetEVER Note: When number of missing hours exceeds 10%, the value is displayed in marron color instead of black to warn modelers that the data may not be acceptable for regulatory applications.	



Торіс	Feature Description
File Menu	Expanded Recent Files List
	The list of recent files in the File menu now displays the 6 most recently-opened files. Previously, this list was limited to 4 files.
Receptors	Uniform Cartesian Grid Default Coordinates
	When adding a uniform cartesian grid to a project, the default coordinates was changed from SW corner to center.
Export	XLSX Support for Exporting Buildings
	The Export Buidlings command now defaults to XLSX format to allow for additional vertice pairs since XLS was limited to 255 columns.
Project Status	New Range Checks for Source Parameters
Status	Additional checks were added for Release Height and Exit Temperature values. A warning is issued if the Release Height exceeds 600 meters . An error is issued if the Exit Temperature is less than 200 K .
Project Status	Updated Building Downwash Checks
Status	When running AERMOD, additional checks were added to avoid automatic processing of BPIP-PRIME when a project contains no point or flare sources.
	For BPIP-PRIME processing, the error message now provides clarification regarding supported source types.
	🖾 Details — 🗆 🗙
	The Following Information is Missing or Incomplete !!!
	 Number of POINT/FLARE Sources = 0. BPIP is only applicable for POINT/FLARE Sources.



Торіс	Feature Description		
Terrain Processor	New Receptor Warning The Terrain Processor now issues a warning if receptors are not present in the project and the user tries to run AERMAP as receptors are required to run AERMAP. Warning Receptors are required for AERMAP to run. OK		
Graphical Options	Project-Specific Color Mapping Settings Color Mapping selections made by the user will now remain selected after closing a project.		



ERMET		iption					
lew	Data Quality A	dded to	Outpu	t Files I	Display		
View	The ACRMET Output Files section was superioded to include data						
	The AERMET Output Files section was expanded to include data quality information regarding the number (and percentage) of calm or						
	missing hours					isers in	aetermining
	their data meets	s minimu	m requi	rements	S.		
	AERMET View						- 🗆 X
	File Mode Data Run Tools	Help	$\sim \sim$			AKMI	0
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	AERMET Output Files	100)					
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ERMET	Updated Mont	h/Seaso	n Assid	anment		cations.	Hemisphere
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Торіс	Feature Description
AERMET & AERMOD View	Order Met Data Order Met Data The Order Met Data button was added to the Met Pathway window in AERMOD View and to the main window in AERMET View. This takes you to Lakes Environmental's Met Services webpage for ordering worldwide AERMET-Ready MM5 or WRF data or US-based AERMOD- Ready meteorological station data. https://www.weblakes.com/services/met_order.html
Installation	Prevention of Old Version Installation The application installation file was updated to no longer allow installation of previous releases when a newer version is already installed. The newer version must now be uninstalled before an earlier version can be installed.



Fixed Issues

Торіс	Issue Description
Control Pathway	Updated NOx to NO2 Options Heading The group heading for the NOx to NO2 Options was updated for model version 16216r. The previous release incorrectly labeled these as Non- Default options when the Default options setting was used.
Output Pathway	Rolling Averages Support was restored for creating rolling average contour plot files without a corresponding percentile value specified. The process was also optimized to avoid running out of memory during calculation.
Multi- Chemical Run	Fixed Status Messages The Status column was updated to avoid false positive checks (e.g., "Bad Format" when not properly reading the meteorological data file locations).
Import	Restored Import of Building Descriptions When importing buildings from a BPIP input file, the description field was cut off if a space was present. This has been resolved.
Reports	Output Type and Depletion Options Updated The Control Pathway report was not properly printing the dispersion and depletion options. This has been resolved.
Sources	Updated Buoyant Line Source Emission Rate Unit The emission rate unit for buoyant line sources was updated to g/s after a clarification regarding a typo in the model documentation for the original implementation of this source type. Source Release Parameters Emission Rate: Y2 Coordinate: Y2 Coordinate: Specify Average Properties



Торіс	Issue Description
Buildings	Reset Wind Flow Vector Window Location Previously, the window position of the GEP Structure Influence Zone's Wind Flow Vector was stored. This now resets to the default location so the window does not become lost off screen when using a different screen resolution from that which previously opened the project.
Eagle Watch View	Range Check Error Resolution The Eagle Watch View issued a "Range Check Error" when initially switching between the Max and Min Extents. This has been corrected. The Eagle Watch View The Eagle Watch View Min. Extents Min. Extents Min. Extents Min. Extents Min. Extents Min. Extents Min. Extents
AERMET View	Seasonal Surface Parameters Label Updated When using the Seasonal Period option for defining surface characteristics, labels for Southern Hemisphere projects displayed seasonal names which could be misinterpreted. These labels have been replaced with months so users can be sure to which time period the specified values apply.
AERMET View	Upper Air Pathway Not Reading FSL Files AERMET View was not properly reading the longitude from FSL files due to a lack of spacing between the coordinates when the station had a longitude > 100°E. This has been fixed.



AERMOD View™ Version 9.3

Release Notes

February 15, 2017

New Features

Торіс	Feature Description
Models	Latest Releases of US EPA Models Available
	The following US EPA Models were released in December 2016 and January 2017 and are incorporated into AERMOD View Version 9.3:
	1. AERMOD Model 16216r (Released January 2017)
	2. AERMET Model 16216 (Released December 2016)
	3. MAKEMET Model 16216 (Released December 2016)
	Note: AERMOD 16216r 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 16216) or the modeler must use an older version of the AERMOD model.
AERMOD MPI	New Version of Lakes AERMOD MPI 16216r (Parallel Version)
	A new version of the Lakes AERMOD MPI for the US EPA Model Version 16216r is now available (AERMOD_MPI_Lakes_16216r.exe). You can specify to use this model under the Preferences dialog.
	Note: AERMOD_MPI_LAKES_16216r.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (16216r) in parallel mode using <u>up to a maximum of 8 cores</u> .
	Preferences – D X
	Settings General AERMOD Executable Default User-Specified AERMOD_MPI_LAKES.EXE MOI Map Settings System Editor EPA Models/Limits Storage Limits
	AERMOD Parameter Description Storage ▲ AERMAD Name Description Limit ▲ ISCST3 ▶ NREC No. of Receptors <unlimited></unlimited>



Торіс	Feature Description			
Control Pathway	Revamped Dispersion Options			
	The Dispersion Options page has been reorganized to support the US EPA 16216r changes and maintain backwards compatibility for model versions 15181 and earlier.			
	The Model Options group heading now confirms which version of the model is selected in Preferences , and options are enabled or disabled according to the model status (Default or Non-Default Regulatory Options).			
	Vocal Artiss Optimized Area Sources (FASTALL) Fast All Sources (FASTALL) Gast Deposition Adjust deforming Mode (SCREEN) Copted and Horizontal Stack Releases Fast All Sources (FASTALL) Gast Area Sources (FASTALL) Gast			
	Help Next Close			



Торіс	Feature Description
Terrain Processor	Updated NED Download Routines The process for downloading USGS National Elevation Dataset 1/3 arc- second (NED 1/3) and 1 arc-second (NED 1) data formats has been updated to reflect a name change implemented by USGS in their storage servers. The updated download includes updated tiles in some locations. Terrain Processor [AERMAP Executable: AERMAP.EXE] Terrain Options
Plume Animation	Implementation Updates Added options for selecting / de-selecting source groups when the Show Plume Animation option is enabled. Also, improved handling of source groups included adding warnings to the Details window to ensure the correct plume animation output is displayed. Implementation
Risk Mode	Supported Feature Improvements Risk Mode was updated to integrate more fully the latest AERMOD model features. Changes include: • Inclusion of circular area and polygon area source types in RiskGen • Incorporation of required gas deposition parameters for vapor and vapor mercury pathways • Updated program warnings and details messages to clarify project status. • Bug fixes and internal efficiency improvements
Project Status	Improved Error Handling The Details and Warnings have been updated to provide additional information to users and prevent errors from occurring.



Торіс	Feature Description		
AERMET View	New US EPA AERMET Model Version 16216		
	On December 20, 2016, the US EPA released a new version of the AERMET model (16216). For a complete description of the changes please see the US EPA Model Change Bulletin #7 (MCB#7).		
	This new AERMET model version was incorporated into the software as the default model version. Older model versions are also available.		
AERMET View	Updated Group Heading		
	The adjusted u-star (ADJ_U*) group heading was adjusted based on the US EPA 16216 model updates. When running AERMET 16216, the heading reflects the regulatory default status of this option (assuming no onsite turbulence data is included). Non-Default Option (BETA) Adjust Surface Friction Velocity (ADJ_U*) AERMET 15181 and earlier Low Wind Option Adjust Surface Friction Velocity (ADJ_U*) AERMET 16216		
MAKEMET Utility	New US EPA MAKEMET Model Version 16216		
	On December 20, 2016, the US EPA released a new version of the MAKEMET model (16216). The MAKEMET Utility was updated to use this version of the executable.		



Fixed Issues

Торіс	Issue Description
Source Pathway	Set All Gas Deposition Parameters to Real Values
Fathway	In previous versions, input values not explicitly listed as real values would be written as integers. This lead to an 'illegal numerical field' error. The application now correctly writes these values as reals in the input file.
Source Pathway	Copy / Paste Update for Gas & Particle Data
Fatiiway	Resolved a problem where the copy and paste buttons on the Gas & Particle Data settings would be lost when modifying the Source ID of the pasted parameters.
Meteorology Pathway	Updated MAXDCONT # Met Years Option
Falliway	Fixed an issue where the drop-down box for the # Met Years field would not appear even when input criteria was met.
Receptor Pathway	Discrete Polar Receptor New Button
Fathway	Previously, discrete polar receptors could only be added using the Tab or Arrow Down keys as the New button would produce an error. This has been fixed.
Import	Import Buildings from BPIP Input File
	Updated the process for importing buildings from existing BPIP input files. The update allows for expanded support for non-standard input file conventions.
Percentiles	Updated Date and Rank Columns in Contour Plot Files
	When preparing percentile contour plot files, the date and rank columns were filled in with data from a different receptor reference than the receptor containing the reported concentration. The columns now reflect the values associated with the reported concentration. This update does not change calculated concentration values.
Multimedia	Restored Codec Selection
	When choosing Advanced Settings for recording animations, the Select Codec button did not always work. This has been restored.



Торіс	Issue Description
MAXTABLE Viewer	Table Sort UpdateWhen sorting the MAXTABLE Viewer data value column (e.g., Concentration, Dry Deposition, etc.), the value was sorted as a string instead of number. This has been resolved.

