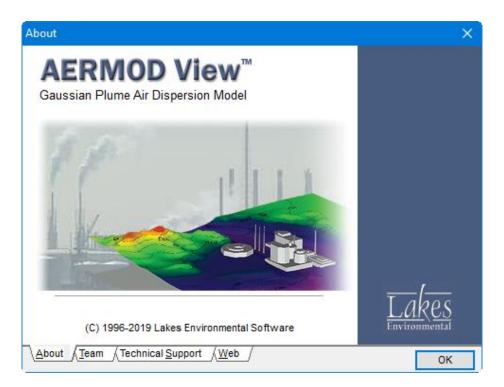
AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

Release Notes

Versions 9.6.x and 9.7



Lakes Environmental Software Tel: (519) 746-5995 – Fax: (519) 746-0793 E-mail: <u>support@webLakes.com</u> Web Site: <u>www.webLakes.com</u>



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AERMOD View™ Version 9.7

Release Notes

June 17, 2019

New Features

Торіс	Feature Description
AERMET View	New AERSURFACE 19039_DRFT Model & AERSURFACE Utility
	On February 21, 2019, the US EPA released the new AERSURFACE 19039_DRFT tool. Updates in the new tool include:
	 Support for National Land Cover Database (NLCD) 2001, 2006, & 2011 GeoTIFF-format land cover data files which cover CONUS, Hawaii, Alaska, & Puerto Rico.
	 Addition of percent Canopy and percent Impervious data files for years corresponding to the selected land cover data.
	Experimental surface roughness calculation methodology (ZOEFF)
	 Separation of airport selection by sector for surface roughness calculations.
	Debug output files for data analysis
	AERMET View's AERSURFACE utility includes support for 19039_DRFT in addition to the existing regulatory version (13016). New features include:
	 Preview window with Tile Maps functionality for visually identifying surface roughness sectors
	 Automated data downloads via webGIS of land cover, canopy, and impervious datasets (see note below)
	Reformatted data inputs in easy-to-use tabs
	Import capabilities for handling existing AERSURACE projects
	Added preview of output files directly to the utility for easy review
	NOTE: Download of NLCD data via WebGIS is limited to users with a current maintenance agreement .



Торіс	Feature Description
AERMET View	New AERSURFACE 19039_DRFT Model & AERSURFACE Utility (Continued)
	Model (mport Run Output Tools) Model Version Import Run Output Tools 986500 Import Run Output Tools 910339 (breft) Import Run Output Tools 13016 (befault) Import Run Output Tools 15039 (breft) Import Run Output Tools 15039 (breft) Import Run Output Tools 15038 (befault) Import Run Output Tools 15038 (befault) Import Run Output Tools 15039 (breft) Import
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	Hemisphere: North Default Location Climate Parameters Surface Roughness Output Files Late Autumn/
	Month Late Audmin without snow Surface Roughness Sectors January V February V March C April C June C Cober C Cober Cocation November C December C L L August C L L L Cocation Clober Cocation Debug Files Zal All GeoTIFF Effective Radius
	Output Files Surface Characteristics File: Sample_SFC.txt Surmary File: Log File: Sample.log Sample.log Sample.log



Торіс	Feature I	Desc	riptio	n										
AERMET View	QA Statistics Spreadsheet for Surface Met Data File (*.SFC)													
	A Surface File QA button has been added to the Output Files tab in AERMET View. This generates an Excel spreadsheet with quarterly data analysis of missing and calm hours. The data can be used to satisfy regulatory requirements for documenting data quality.													
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	Processing Opti			race) Out		3								
	AERMET OU	tput File:	s											
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	3 Longitude: 4 UA ID:	119.77 3198	ww											
	5 SF ID:	23185												
	6 OS_ID:													
	7 VERSION:	18081												
	8 OPTIONS:	ADJ_U	* CCVR_Sub	TEMP_Sub										
	9				Total	Missing	Missing	Calm Hours	Colm	Missing Claud	Missing Cloud	Missing M/ind	Missing Mind	Missing
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		10 Q4 10 Total		2010/12/31										
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	10													





Торіс	Feature Description							
AERMET View	Addition of NLCD 2001/06/11 Data to Land Use Viewer The Land Use Viewer now displays output from the new AERSURFACE 19039_DRFT with NLCD 2001/06/11 land cover categories.							
	Land Use Viewer							
Terrain Processor	Support for Non-US GeoTIFF Terrain Data Files The Terrain Processor is now able to read and process terrain data files in GeoTIFF format for locations outside the United States. This includes the Canadian Digital Elevation Model (CDEM) data. Support is handled by setting the Horizontal Datum selection to "Unknown" for all non-USGS NED files. This forces AERMAP to read coordinates in the same datum as that identified for the project (View Map Projection settings). Terrain Region To Import Import Elevations Advanced AERMAP NED GEOTIFF Digital Terrain File File Name / Horizontal Location Remove File Name / Horizontal File WGS 72 WGS 84 NAD 83 Old Hawaii Puerto Rico							



Торіс	Feature Description									
Receptor Pathway	Multi-Select Tools for Sensitive Receptors									
	To improve selection of discrete receptors as Sensitive, multi-select tools have									
	been added to the Discrete Cartesian Receptors settings.									
	Receptor Pathway									
	Actions Actions Actions									
	→ Terrain Options (Elevated) No. D X - Coord. (m) Y - Coord. (m) T - Coord. (m) <tht -="" coord.<br="">(m) T - Coord. (m)</tht>									
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	Help & Previous Next & Close									
eceptor	Disable Gridded Receptors from Plant Boundary									
-	Gridded receptors can now be disabled directly from within the Plant Boundary dialog. Application of either function will automatically remove all gridded									
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Торіс	Fe	ature De	scriptio	n							
Receptor Pathway	Su Ex	pport fo port to (r the Re SV and	ceptor I Import	D and S from Fil	ensitiv e funct	ions for C	tion has b artesian D	een addeo Viscrete Re disabled (C	ceptors	
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	As	sign Column Dat	a Parameters:								
		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	^	
	I	X 🔽	Y	Elevation	Hill Height	GROUP	Receptor ID	Is Sensitive	Flagpole Height	~	
	Dat	a File Preview:									
		313549	5811630	565.51	565.51			A	1	~	
		313505	5811230	568	568			В	1		
		313479	5811546	568.95	568.95			С	1		
		313439	5811346	569.22	569.22			D	1		
		313622	5811976	562.01	562.01			E	1	- 1	
		314542	5811891	546	564			F	1	- 1	
		314823	5811884	546.92	562			G	1	- 1	
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Source Pathway	W	hen impo	orting so	ources f	rom an	existin	MOD Inpu g AERMOI a the SO EI	D Input Fi	le, AERMC)D Viev	N
Source Pathway	Us		now sel	ect mult	iple sce	narios			issions set	tings i	n



Торіс	Feature Description
Source Pathway	Character Limit to Auto-Generated Source Groups The AERMOD model limits source groups to no more than 8 characters while source IDs can have up to 12 characters. When using the Auto-Generated Source Groups utility, an issue could appear when naming groups by source ID due to the character restriction. AERMOD View now issues a warning in this situation so users can adjust group names accordingly. Warning
	Some source IDs exceed 8 symbols. If you proceed the source group IDs will be truncated to 8 symbols. Do you want to proceed? Yes No
Output Pathway	Zero Values Added to Exceedance Count Contour Plot The contour plot of exceedances generated by AERMOD View after analyzing the Threshold Violation file (MAXIFILE) now includes 0 values at receptors with no exceedances. This produces a smoother contour plot.



Торіс	Feature Description
Output Pathway	Auto-Processing Percentiles When the Percentiles functionality is enabled, AERMOD View will now processing this output automatically before the display of any warning dialogs.
Projects	Warnings for Invalid Characters When starting a new project or saving an existing project, AERMOD View will now warn users who attempt to use invalid characters in the project name. These include apostrophes ('), quotation marks ("), and percent symbols (%). Warning Marning The file name contains invalid character "%". OK
Project Status	Updated Warnings in Details The messages presented in Details for projects with warnings and potential errors have been updated to reflect all project data.



Fixed Issues

Торіс	Issue Description
Import	Import Sources from Excel
	Fixed an issue where AERMOD View was unable to recognize some XLSX files.
Import	Buildings from BPIP Input File
	An issue prevented AERMOD View from importing buildings from existing BPIP input files if the building IDs contained spaces. This has been resolved.
Control	ALPHA Keyword Application
Pathway	The ALPHA keyword was incorrectly written to the model input file for 18081 model runs when the Non-Default options were enabled and the Adjusted Surface Friction Velocity (ADJ_U*) option selected.
Sources	Maintain Existing Source Ranges When Removing Individual Sources
	In functions that support specification of source ranges (e.g., Source Groups, PSD Groups, In-Stack NO2/NOx Ratios, etc.), ranges will be preserved after removal of the first or last Source ID within the range. Previously, the entire range was removed from the project setup. Modelers are strongly encouraged to validate source range selections.
Sources	Buoyant Line Emission Rate
	The emission rate label for Buoyant Line sources was updated in the Source List and Multi-Chem Run utility to show the proper g/s label. This change was to the label only as values were processed as g/s in previous versions.
Source	Default Urban Groups Option
Pathway	The default setting for Urban Groups was restored to the "Single Urban Group (ALL Sources)" setting.
Source	Hourly Emission File Maker Utility Support for ISC Model
Pathway	The File Maker utility was updated to fully support ISCST3 & ISC-PRIME projects. The utility now prepares EMI files with two-digit years instead of four-digits and reads meteorological data from the ISC-specific meteorological data file.



Торіс	Issue Description
Overlays	Cartesian Plant Boundary Layer Order
	The Cartesian Plant Boundary layer was added as the bottom-most layer in the Overlays Tree View. This has been corrected so the layer is visible by default.
Project Status	Resized Long Project Names
	Extremely long project names would overrun the Input File and Output File headings on the Project Status window. This has been updated to truncate the file names accordingly.
Multimedia	Default Codec
	When using the Record Animation option, the default video compression Codec has been reset to the Intel IYUV codec. The previous default (Microsoft Video 1) is not supported by the Windows default media player application which could lead to 'Can't play' errors when attempting to view AERMOD View AVI files.
Batcher	Corrected Meteorological Data Error Message
	The Bad Format message for meteorological data files that could not be found was corrected to point to the correct files.

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. This bug has been resolved with the US EPA AERMOD 18081 model release.
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 9.6.5

Release Notes

September 28, 2018

Fixed Issues

Торіс	Issue Description
AERMET View	Onsite Data Records Limits Increased
	To fully support prognostic model (WRF or MM5) output generated by the US EPA MMIF utility, the number of data records per observation period and number of multi-level measurement heights accepted by AERMET View were increased to 50.
	Onsite Data Records Additional Parameters QA Onsite Variables Onsite Variable Ranges
	Onsite Data Records
	No. of Data Records per Observation Period: 50 🔹 No. of Measurement Heights 50 👻 Data Records. 50 V
	2006010101 0.00 0.000 9788.521 22.463 2.00 11.651 89.278 0.523
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	125.00 2.324 156.940 12.170 85.000 150.00 1.792 176.395 11.996 85.000
	Current Record: 2006010101 0.00 0.000 9788.521 22.463
AERMET View	Project Status Update
	Corrected an erroneous message in Project Status that did not recognize an AERSURFACE output file in the Sectors tab without the user first reviewing the tab.
AERMET View	Upper Air Estimator
	A minor adjustment was made to the code to prevent unexpected shutdown of the Upper Air Estimator in rare cases.



AERMOD View[™] Version 9.6

Release Notes

May 30, 2018

New Features

Торіс	Feature Description
Models	Latest Releases of US EPA Models Available
	The following US EPA Models were released in April 2018 and are incorporated into AERMOD View & AERMET View Version 9.6:
	 AERMOD Model 18081 AERMET Model 18081 AERMAP Model 18081
	Note: Installation includes both 64-bit (X64) and 32-bit (X32) compiled executables. Select the appropriate version for your operating system.
Models	Removal of Outdated Model Executables
	The AERMOD model has been in wide use since its 2005 promulgation as a preferred regulatory air dispersion model in the United States. Since that time, there have been over a dozen model releases by the U.S. EPA. Some of these releases contained significant updates to model routines and changes to calculation methodology.
	We have removed several outdated model executables from the installation to promote the current state of science while maintaining backwards compatibility for regulatory applications.
	The supported models include both EPA and MPI versions of the following:
	 AERMOD 12345, 13350, 14134, 15181, 16216r, 18081 AERMET 12345, 13350, 14134, 15181, 16216, 18081 AERMAP 18081 BPIP-PRIME 04274 AERSURFACE 13016 AERMINUTE 15272



Торіс	Feature Description
AERMOD MPI	 New Version of Lakes AERMOD MPI 18081 (Parallel Version) A new version of the Lakes AERMOD MPI for the US EPA Model Version 18081 is now available (AERMOD_MPI_Lakes_18081.exe). Install includes 64-bit and 32-bit versions. You can specify to use this model under the Preferences dialog. Note: AERMOD_MPI_LAKES_18081.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (18081) in parallel mode using <u>up to a maximum of 8 cores</u>.
	Settings AERMOD Executable • General Default • Download Settings User-Specified • World Map Settings # MPI Processes: 4 • System Editor EPA Models/Limits • AERMOD Parameter • Name Description • ISCST3 No. of Receptors
AERMAP MPI	 New Version of Lakes AERMAP MPI 18081 (Parallel Version) A new version of the Lakes AERMAP MPI for the US EPA Model Version 18081 is now available (AERMAP_MPI_Lakes_18081.exe). Install includes 64-bit and 32-bit versions. You can specify to use this model under the Preferences dialog. Note: AERMAP_MPI_LAKES_18081.EXE or AERMAP_MPI_LAKES.EXE will run the latest version of the AERMAP model (18081) in parallel mode using <u>up to a maximum of 8 cores</u>.
	Preferences - X Settings • General • • Appearance • Default User-Specified • Download Settings • World Map Settings • • System Editor • Imits • • AERMAP Parameter Description Storage • Name Description Limit Mit • ISCS13 NREC No. of Receptors <unlimited></unlimited>



users running 32- executables.	executable (AERMOD_18081_X64.EXE) will not run on this operating system (32-bit) OK
users running 32- executables.	2-bit operating systems do not accidentally use 64-bit executable (AERMOD_18081_X64.EXE) will not run on this operating system (32-bit) e 32-bit executable from the Preferences menu OK
View Selected 64-bit ex Please select the Updated Dispersion	executable (AERMOD_18081_X64.EXE) will not run on this operating system (32-bit) e 32-bit executable from the Preferences menu OK
Vpdated Dispersion	OK
	on Options
model changes and r and earlier. The Model Options selected in Preferer model version and r	tions have been reorganized to support the AERMOD 18081 d maintain backwards compatibility for model versions 16216r as group heading still confirms which version of the model is ences, and options are enabled or disabled according to the regulatory status (Default or Non-Default).
	Titles XYZ Company - Concentration Calculation - 1986 Met Data
	Regulatory Options Output Type Default Non-Default Total Deposition Wet Deposition Disable Dry Depletion Disable Wet Depletion Model Options (Version #18081) Medel Options (Version #18081)
Re-Start/Multi-Year Files Event/Error Files Debug Files Gas Deposition Gas Deposition Seasonal Categories Land Use Categories	Model Options (Version #Todol) Filt (FLAT) Filt (FLAT) Filt (FLAT) Low Wind Options (ALPHA) No Stack-Tip Downwash (NOSTD) Disable Horizontal Meander (LOWWIND1) Conversion of NOx to NO2 Adjust Horizontal Meander (LOWWIND2) Conversion of NOx to NO2 Capped and Horizontal Stack Releases Fast All Sources (FASTALL) Fast Area Sources (FASTAREA) Optimized Area Source Plume Depletion (AREADPLT) No Output Warnings (NOWARN) Gas Deposition Non-fatal Warnings for Non-sequential Met Data (WARNCHKD) Sampled Chronological Input Model (SCM) No Cutput Warnings (NOURBTRAN) ClowWND1 & LOWWIND2 valid for model versions 15181-16216r only (BETA) LOWWND1 & LOWWIND2 valid for model versions 1081 only (ALPHA)
	The Model Option selected in Prefere model version and



Торіс	Feature Description
Control Pathway	New ALPHA Model Keyword
	The US EPA has added a new ALPHA keyword in AERMOD 18081 to distinguish research / experimental model options (ALPHA) from community-vetted options under consideration for promulgation (BETA).
	The ALPHA keyword will be automatically written to the model input file if a user selects an ALPHA option. Current ALPHA options are:
	 New option for handling low wind speeds (LOW_WIND)
	 Modeling NO2 increment credits with PVMRM (PSDCREDIT)
	Note: No BETA options exist in AERMOD 18081.
Control	New Low Wind Options
Pathway	The LOWWIND1-3 model options have been replaced with the new LOW_WIND model keyword accessible via the Low Wind Parameters button.
	Low Wind Options (ALPHA) Disable Horizontal Meander (LOWWIND1) Adjust Horizontal Meander (LOWWIND2) Adjustment similar to FASTALL (LOWWIND3) Low Wind Parameters
	Low Wind Parameters
	LOW_WIND
	Minimum Sigma-V [m/s]: 0.2 0.2 0.1.1.0]
	Minimum Wind Speed [m/s]: 0.2828 0 [0.011.00]
	Maximum Meander Factor: 0.95 0.51.00
	Help Cancel OK
	The new keyword allows modification of the Minimum Sigma-V, Minimum Wind Speed, and Maximum Meander Factor to improve model performance in stable,



Торіс	Feature Description	
Control Pathway	No Multi-Year Average When Reporting Maximum Annual Average For Each Met Year	
	The 'Report Maximum Annual Average For Each Met Year' option only produces the individual year results in AERMOD 18081. Previous model versions included the multi-year average values in the model-generated POSTFILE.	
	Multi-year average concentrations are still available via the annual average Contour Plot file.	
	Averaging Time Options I -Hour 6-Hour 2-Hour 8-Hour 3-Hour 12-Hour 4-Hour 24-Hour Report Maximum Annual Average for Each Met Year	
	Output Type: Concentration Layer: Year 1 Year 1 Year 2	
	Group Year 3 Year 4 Year 5 Max Annual Average for Each Met Year Group: ALL ANNUAL (ANNUAL_G001.PLT)	
Control Pathway	5	
	Seasonal Categories # Midsummer Autumn Winter without Winter Transitional Winter Transitional	
	January	
	February	
	April May	
	June 🔽	
	August Image: Constraint of the sector of the	
	September Image: Constraint of the sector	
	November	
	December	
	Clear All Default	



Торіс	Feature Description
Control Pathway	Removal of NO2 Ambient Ratio Method (ARM) AERMOD 18081 no longer supports the Ambient Ratio Method (ARM) for NOx to NO2 conversion. Results can be replicated by selecting ARM2 and setting the Minimum and Maximum ratios to the same value.
	Conversion Methods Tier 1 None (Full Conversion) Tier 2 ARM ARM2 Tier 3 OLM PVMRM PVMRM PVMRM2 (BETA) If importing an existing AERMOD input file containing the ARM option, a warning
Source Pathway	message will be issued. Emissions Units for Odor When 'Odor Units' is selected on the Emission Output Units options, the displayed units for Emission Rate in the Source Release Parameters will now be labeled as OU/S or OU/s-m**2.
	Source Release Parameters Emission Rate: 1 [OU/S] Gas Exit Temperature: 415.0 V [K] I Fixed (
	Source Release Parameters Emission Rate: 0.00335 Length of the X Side: 22.56 ✓ [m]
Source Pathway	Updated PSD Groups Header The header of the PSD Source Groups option for PVMRM now reflects the model option's status as an ALPHA option. PSD Source Groups - NO2 Increment Credits Modeling with PVMRM (ALPHA)



Торіс	Feature Description
RiskGen	Project Management Project files generated via the RiskGen utility are now stored in a project sub- folder <project_name>.RSK. This provides better organization of project files and makes it easier to find data when needed.</project_name>
Project Backup	RiskGen Files Included AERMOD View's integrated project backup utility now includes all files produced via the RiskGen utility in support of modeling analyses for human health risk assessment.
	Backup Options Image: Constraint of the second difference of the second dif
	Total Size: 45.3 MB Max: 2 GB Add Files Add Folder Help Cancel OK
Project Status	Variable Emissions Scenario Check Project Status now issues a warning if sources are not included with a variable emissions scenario.



Торіс	Feature Description
AERMET View	Upper Air Estimator
	The Upper Air Estimator utility has been updated for the AERMET 18081 model.
AERMET View	New KML Export Objects
	When exporting AERMET View project data to Google Earth, all projects now display sectors in accordance with the recommendations of Section 3.1.2 of the U.S. EPA's AERMOD Implementation Guide. This includes:
	• 10km x 10km area for calculating albedo & Bowen ratio
	1km radius for calculating surface roughness
	Spails Tear Surface Station



Fixed Issues

Торіс	Issue Description
Terrain Processor	Downloading NED Data for Projects with Existing Tiles NED 1 and NED 1/3 tiles will now be successfully downloaded from WebGIS even if existing tiles are already present in the project folder. Previous versions would issue an error if NED data already existed in the project folder.
Control Pathway	Default Minimum NO2/NOx Ratio for ARM2 The default value for the ARM2 Minimum NO2/NOx Ratio model option has been reset to 0.50 in accordance with regulatory guidance.
Meteorology Pathway	Loading File Information The Surface Met Data and Profile Met Data groups of the Met Input Data options will complete all of the Start Date, End Date, Version, Calms, and Missing fields when the Surface and/or Profile files are input and the corresponding file exists in the same location. Surface Met Data Start Date: 86 01 01 01 End Date: 86 12 31 24 Multi-Year File: Tutorial SFC Version: 18081 ADJ_U* CCVR_Sub TEMP_Sub Profile Met Data Start Date: 86 01 01 01 End Date: 86 12 31 24 Multi-Year File: Tutorial SFC Version: 18081 ADJ_U* CCVR_Sub TEMP_Sub File: Tutorial PFL
Receptor Pathway	 Flagpole Heights Option Two issues involving the Flagpole Heights option were resolved: When importing receptors from an AERMOD input file with the Flagpole Heights option enabled, Hill Heights were incorrectly applied to the Flagpole Heights column for discrete receptors. Individual flagpole heights are now applied to onsite receptors.
Reports	Sensitive Receptor Summary Report This report was updated to include all sensitive receptors in the report. The previous release only reported the first four sensitive receptors.



Торіс	Issue Description
Reports	Results Summary Peak Date Update
	The Results Summary report was modified to remove any date and hour information from Deposition results. Those values are specific to concentration results only in AERMOD's contour plot file.
AERMET View	Warnings List Updated
	When using the "Read Mixing Heights from Onsite Data" option, the application issued an incorrect warning message stating that Upper Air data was missing. This warning no longer appears.
AERMET View	AERSURFACE File Option Retained
	The "Use AERSURFACE File Instead of Sector & Surface Parameters" option would become disabled if the user left and returned to the Sectors tab. While the model always used the user-specified selection, the selection is now properly retained within the interface.
AERMET View	Onsite QA Table Updated
	Values on the Onsite Variable Ranges table were corrected to match Table B-4 of the US EPA AERMET user's guide.
AERMET View	Upper Air Estimator Fix
	In very rare instances, the Upper Air Estimator encountered an early termination due to solar elevation angle. This has been fixed for AERMET version 16216 and later.
WRPLOT View	Wind Classes Table
	When supplying new values to the Wind Classes table, the From column would not automatically update when switching units from m/s to knots. This has been fixed.

