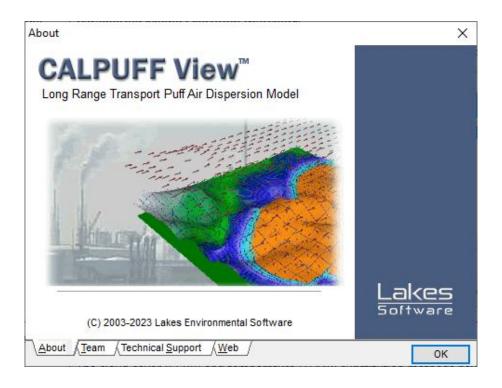
# **CALPUFF View™**

Puff Air Dispersion Model – CALPUFF

### **Release Notes**

Version 10.0



Lakes Environmental Software

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CALPUFF View<sup>™</sup> Release Notes

## **CALPUFF View™ Version 10.0**

## **Release Notes**

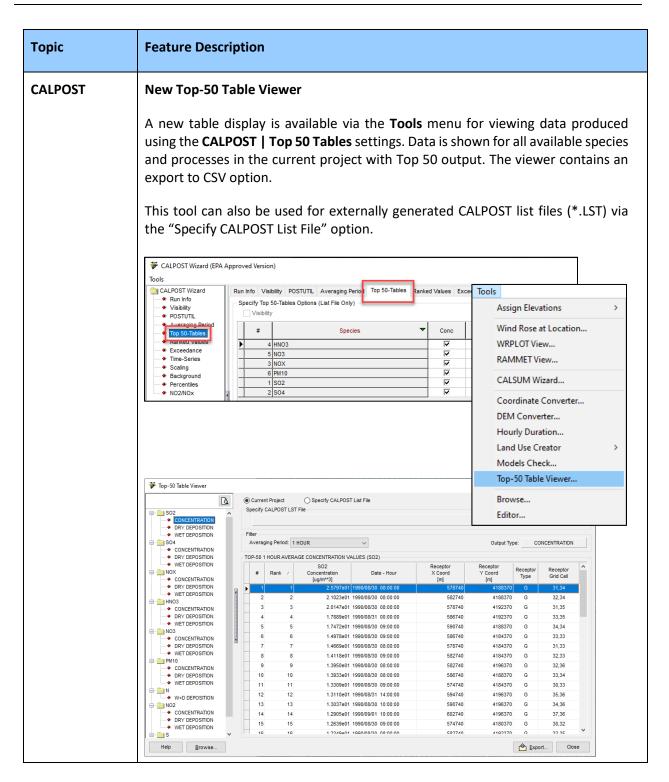
## September 8, 2023

### **New Features**

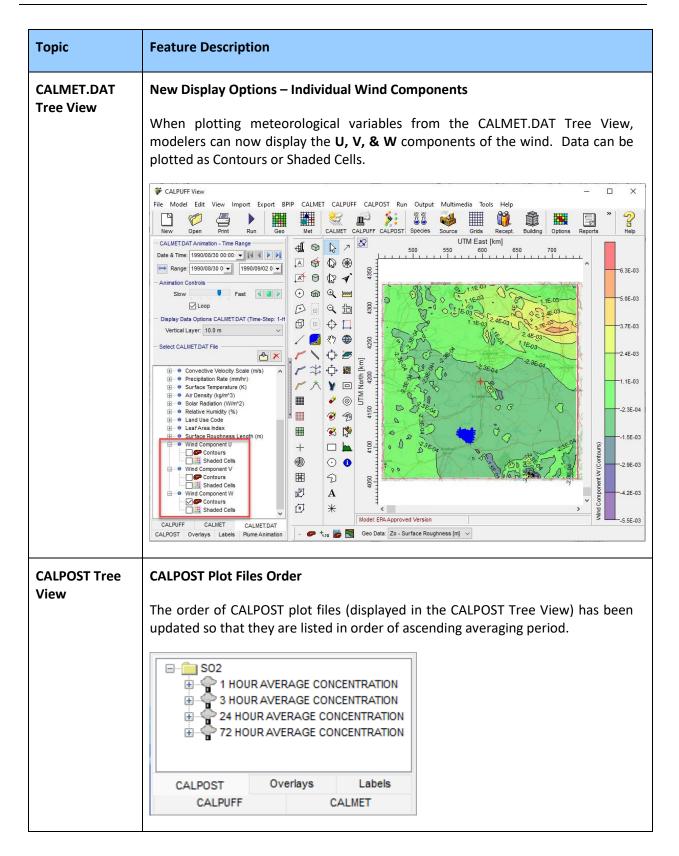
New Ranked Values Grid View Table  A new output display option has been added to CALPUFF View to help mode more easily review and export Ranked Values data from their CALPUFF projection of the company of the context of the context of the second data used to generate contour plots in the main display.  Accessible via the CALPOST Tree View, right-clicking on any plot name of provides the View As Grid context menu option. Selecting this will open Ranked Values Grid View. Tables can be exported to CSV format for furt external analysis.	cts. ime now the
more easily review and export Ranked Values data from their CALPUFF projeth This output is enabled via the CALPOST   Ranked Values settings and is the set data used to generate contour plots in the main display.  Accessible via the CALPOST Tree View, right-clicking on any plot name in provides the View As Grid context menu option. Selecting this will open Ranked Values Grid View. Tables can be exported to CSV format for furt external analysis.    Pank (Pank (Pank ALL) 502 THR CON)   Panked Values Grid View   Panked Values Grid Vi	cts. ime now the
24 HC	
# CALPUFF CALMET   72 HOUR AVERAGE CONC_C DAT   72 HOUR AVERAGE DR Select Output File:   C:Lakes\CALPUFF View\Tutoria\Refined\Refined\Dost\SOZ\RANK(ALL)_SO2_1HR_CONC_C DAT	
T2 HOUR AVERAGE DR  T2 HOUR AVERAGE WE  Relect Output File: C:C:LakesiCALPUF ViewiTutorialRefined:Refined_postSO2RANK(ALL)_SO2_1HR_CONC_C.DAT  RANKED 1 HOUR AVERAGE CONCENTRATION  CALPOST Overlays Labels CALPUFF CALMET  T1	×
# Discrete Receptor D (Group Name)	~
CALPUFF CALMET  Discrete Receptor D (Group Name)  # 1 456740.00 4056370.00 3.7689E-02 2.8946E-02  2 8946E-02 3.2835E-02  3 466740.00 4058370.00 4.0071E-02 3.5443E-02	
CALPOST Overlays Labels CALPUFF CALMET  1	#52
CALPUFF CALMET 2 462740.00 4056370.00 3.9284E-02 3.2383E-02 3 466740.00 4058370.00 4.0071E-02 3.5443E-02	
4 470740.00 4056370.00 4.0267E-02 3.8079E-02	
5 474740.00 4056370.00 4.0088E-02 3.9852E-02	
6 478740.00 4056370.00 4.1674E-02 3.8786E-02 7 482740.00 4056370.00 4.2499E-02 3.7286E-02	
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9 490740.00 4059370.00 4.1978E-02 3.3013E-02	
10 494740.00 4056370.00 4.0770E-02 3.0500E-02	
11 498740.00 4056370.00 3.8936E-02 2.7863E-02	
12 502740.00 4056370.00 3.6910E-02 2.4781E-02	
13 506740.00 4058370.00 3.4658-02 2.40538-02 4058370.00 3.4658-02 2.40538-02	
14 510740.00 4056370.00 3.2042E-02 2.3842E-02 15 514740.00 4056370.00 2.9258E-02 2.3143E-02	
15 51474.0,00 4,05637.0,00 2,5505.0,02 2,31435.0,0 16 51874.0,00 4,05637.0,0 2,56486.0,2 2,21106.0,2	
Average 9.1316E-01 Average: 5.9607E-01	



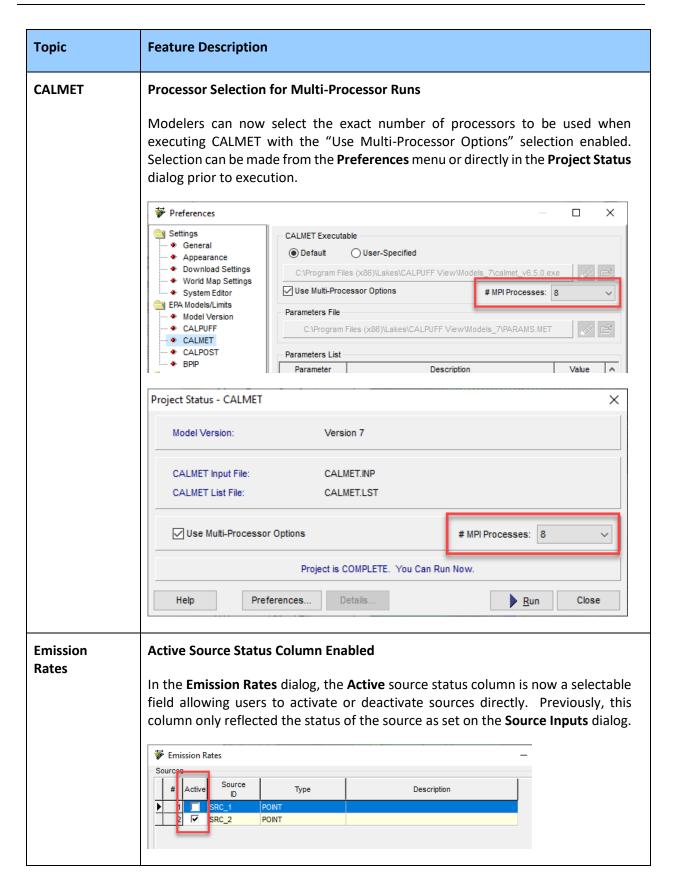
CALPUFF View<sup>™</sup> Release Notes





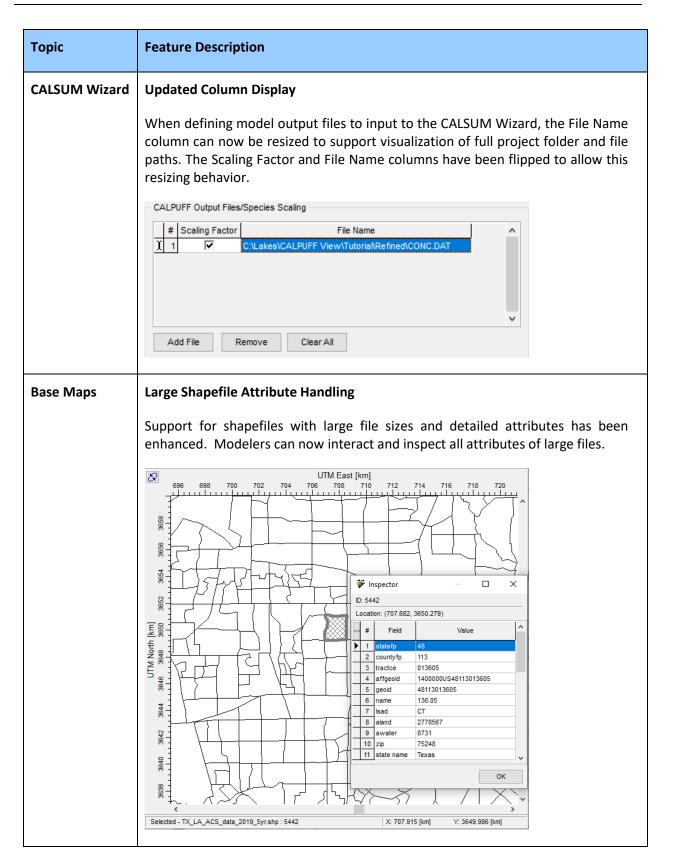








Topic	Feature Description				
CALPUFF	Calculated Monthly Ozone Checks Applied  In the Chemical Transformation settings, additional QA checks have been added to the Calculate from Ozone File option in the Monthly O3 tab including:  • Disabling the button if the option to include an external OZONE.DAT file is not included on the Options tab, and • Issuing a warning message if the button is clicked without an OZONE.DAT file being input.  Warning  Could not calculate ozone monthly values. OZONE.DAT file not specified under the Options tab.				
Sources	Polygon Area Import Support  CALPUFF View has supported the unique Polygonal Area Source type for many years, but the CALPUFF model only supports area sources with a maximum of four vertices. The application works by breaking up large area sources with unlimited vertices into smaller tetragons allowing the total area to be modeled.  With this update, importing CALPUFF input files generated using CALPUFF View will automatically recombine the individual tetragons into its single polygon spanning the full area.  For CALPUFF input files created outside of CALPUFF View, modelers can replicate the functionality by assigning a source ID prefix to all polygons that are meant to be combined (e.g., PREFIX_n where n is the polygon number).				



Topic	Feature Description			
Tools	Enhanced Shapefile Support for Land Use Creator			
	Several updates were made to better handle importation of shapefiles into the utility. These include:			
	<ul> <li>Updated category mapping</li> <li>Support for manually entering Land Use Codes when assigning codes for attribute values</li> <li>Setting WGS-84 as the default datum</li> </ul>			
Met Processor	Support for Updated Buoy Data File Format			
Trocessor	An update was made to the <b>Overwater</b> tab to accept all data file formats output by the National Data Buoy Center (NDBC).			
Project Status	Updated Error Checking			
	Routines designed to locate errors in the project have been updated to better reflect the state of the project at the time the Run option is called. This includes removing erroneous messages and adding additional ones.			
Project	Large File Support			
Backup	The Project Backup utility was expanded to include 7-Zip packing & unpacking for projects larger than 2GB in size. The user will be prompted to install the 7-Zip file archiver application if they do not already have it.			
Help	Updated Web Links			
	Web links in the Help menu have been updated to reflect current URLs to the Lakes Environmental Software website.			

## **Fixed Issues**

Торіс	Issue Description						
CALMET	Multi-Processor Support for Version 7.3 (Beta) System						
	An issue was corrected that prevented users from utilizing the Multi-Processor option for CALMET runs conducted using the Version 7.3 (Beta) modeling system.						
CALMET	Anemometer Heights Fix						
	When editing individual anemometer heights in the Surface Met Stations dialog, heights would be reset to the default value (10m) each time the dialog was reopened. While this did not impact CALMET model runs, the issue has been addressed so that users do not have to re-enter the heights each time.						og was
CALPOST	Corrected Process Column						
	When selecting C Flux, etc.) on som correct Process fo  CALPOST Wizard (EPA App Jools  CALPOST Wizard  A Run Info  Visibility  POSTUTIL  A Veraging Period  Top 50-Tables	ne tabs had incore each selection	correct titles. Th	is has bee	en correcte	ed to sh	•
	Ranked Values  Exceedance	Concentration	S02	✓	1		
	Time-Series Scaling	Concentration	SO4 NOX		1		
	◆ Background	Concentration Concentration	HNO3	V	1		
	◆ Percentiles ◆ NO2/NOx	Concentration	NO3	<b>V</b>	1		
	* Hozmox	Concentration	PM10	<b>V</b>	1		
		Concentration Dry Flux	NO2 SO2	V	1		
		Dry Flux	S04	V	1		
CALPOST	Time Series Leap Year Support  The CALPOST Wizard has been updated to correctly reflect all 366 days when specifying Time Series output. February 29 <sup>th</sup> can now be selected from the Specify Days table for applicable years.						
Reports	Sensitive Receptor	or Reports Up	date				
	An update was made to ensure that results from all receptors flagged as 'Sensitive' appear in the Sensitive Receptors Summary Report.				nsitive'		



### **Known Issues**

Topic	Issue Description			
CALPOST	Background Data Files Not Accepted in EPA-Approved Version			
	A bug in the model code prevents the EPA-Approved CALPOST model (Version 6.221, Level 080724) from reading hourly background data files (BACK.DAT). Code modification is necessary for the process to work correctly.			
CALPUFF	Buoyant Line Source with Variable Emission Factors Not Recognized			
	A bug in the CALPUFF model version 7.2.1 prevents the model from properly recognizing buoyant line source IDs when variable emission factors are included. The issue is addressed in CALPUFF 7.3.2.			
CALPUFF	Sub-Hourly External Source Files with Different Time Steps			
	CALPUFF model version 7.2.1 is unable to process external source files with different sub-hourly time steps.			

