

CALPUFF View

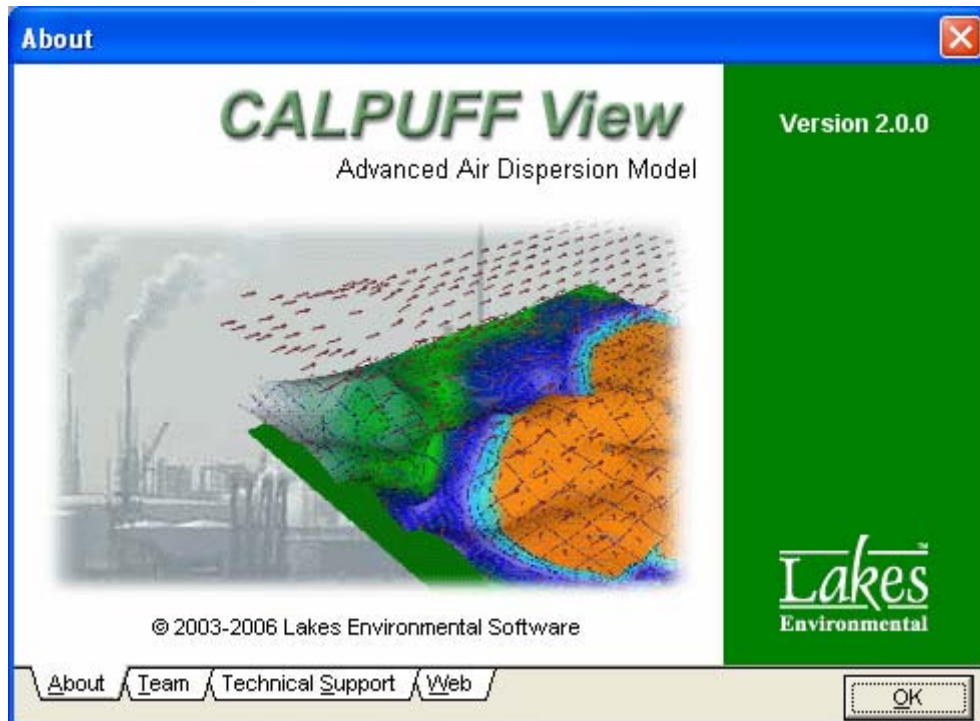
Interface for the CALPUFF Air Dispersion Modeling System:
CALPUFF, CALMET and CALPOST

Release Notes

[Release Notes – Version 2.0](#)

[Release Notes – Version 1.9](#)

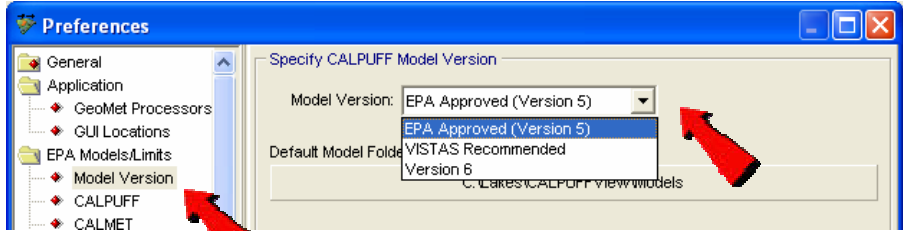
[Release Notes – Version 1.7](#)

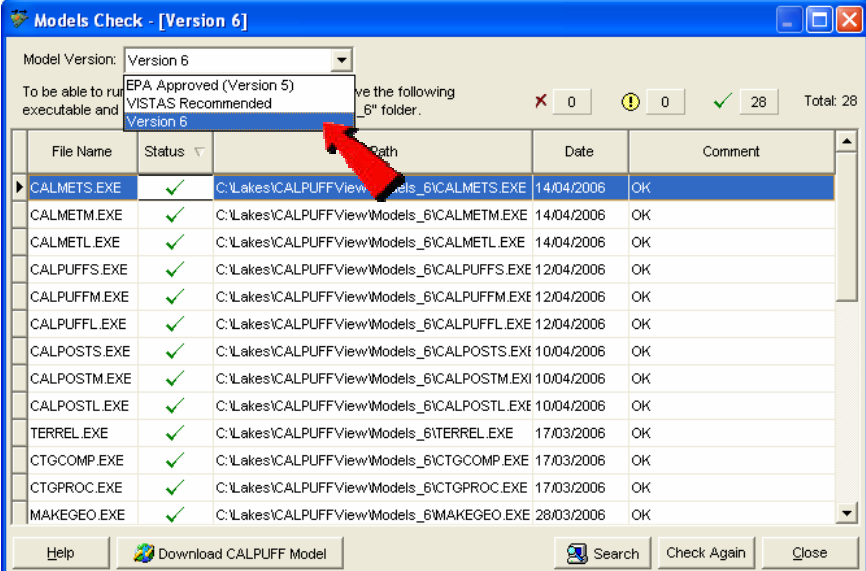


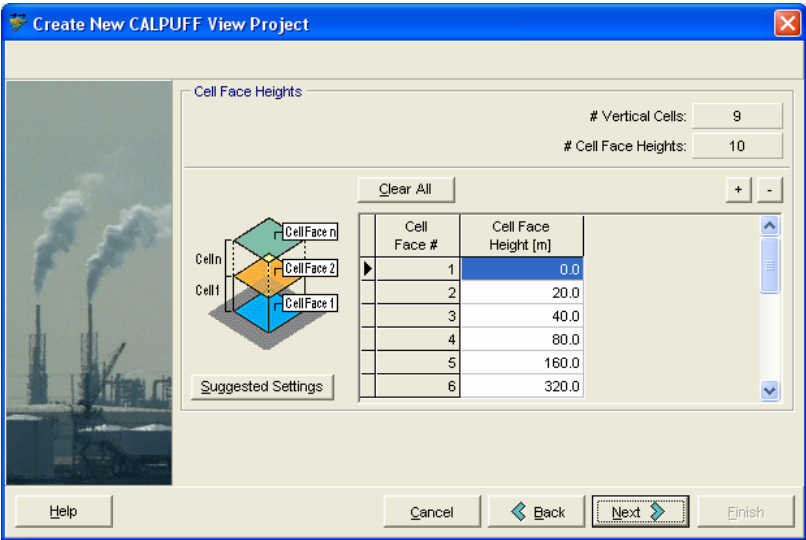
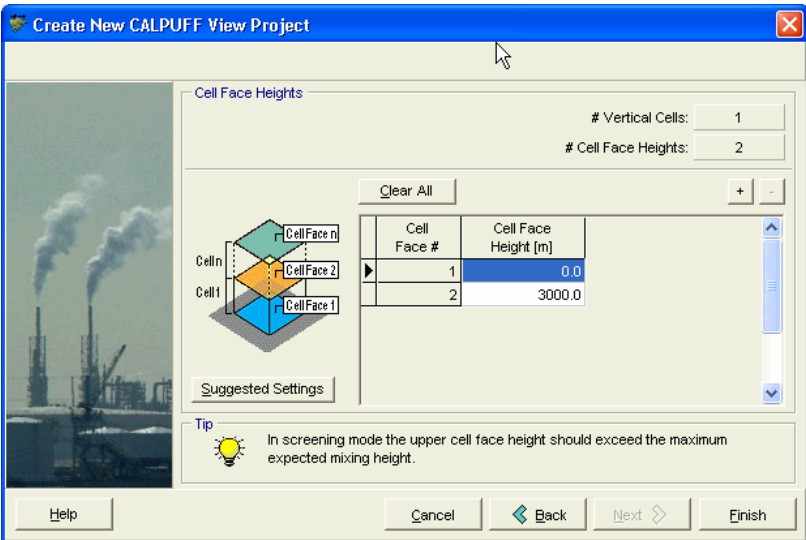
Lakes Environmental Software
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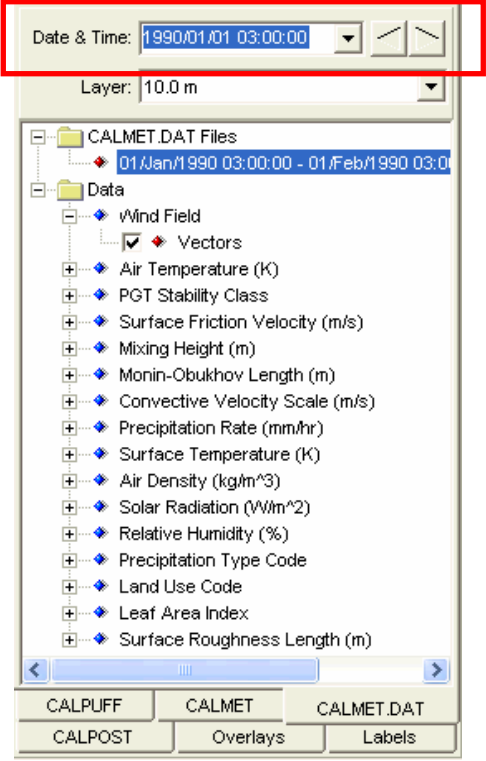
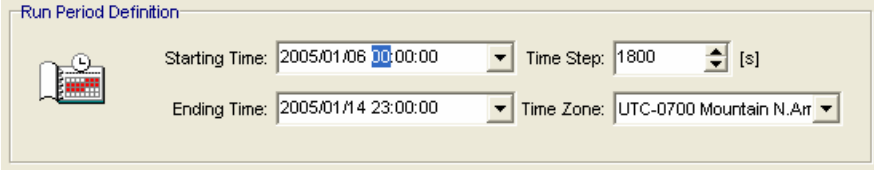
CALPUFF View Version 2.0

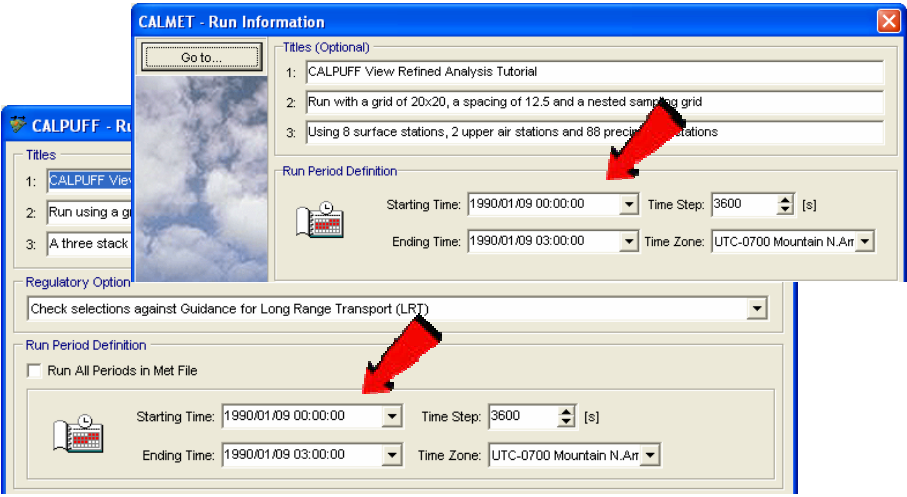
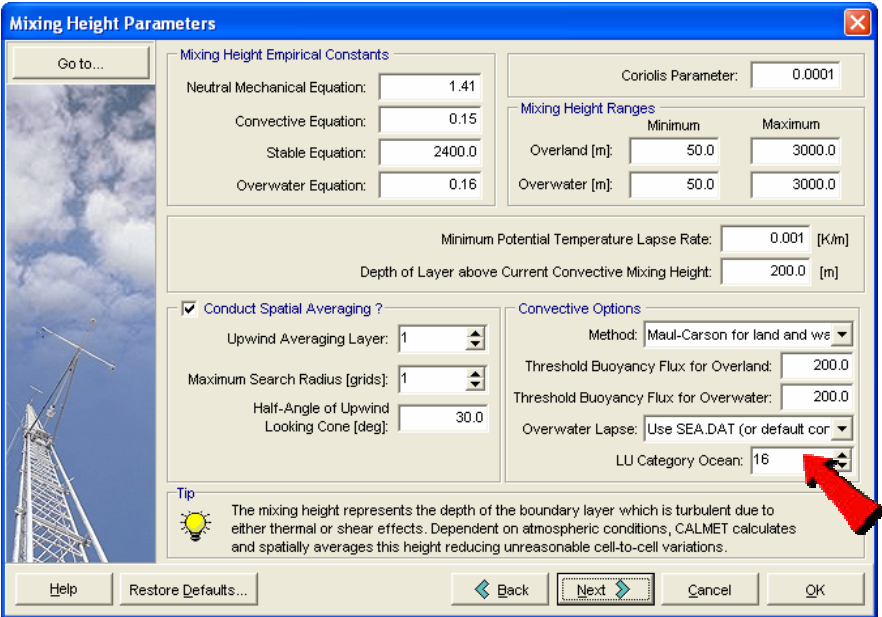
Release Notes November 14, 2006

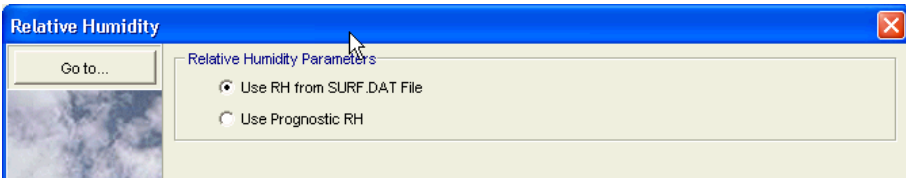
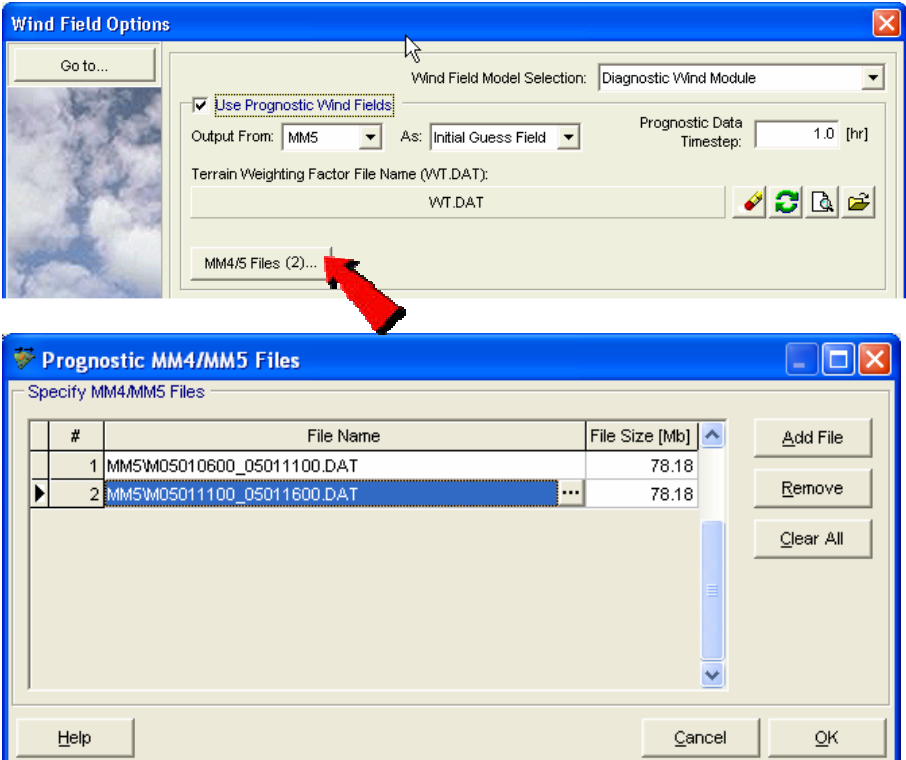
Topic	Feature Description
Models	CALPUFF View Support for Version 6 Models CALPUFF View Version 2.0 contains the latest model enhancements and updates to the TRC CALPUFF modeling system (Version 6). The following Version 6 models are supported by CALPUFF View: ◆ CALPUFF - Version 6.112 - April 12, 2006 ◆ CALMET - Version 6.211 - April 14, 2006 ◆ CALPOST - Version 6.131 - April 10, 2006
General	CALPUFF View - Model Preferences You can now switch seamlessly between the VISTAS Recommended, Version 6 and EPA Approved CALPUFF Models. Model executables are specified independently for each setting. This option is available by selecting File Preferences from the menu and then selecting the Model Version panel. CALPUFF-Version 6 Models: Download the latest models from TRC's web site and place the exe files under the Models_6 folder within the installation folder (C:\Lakes\CALPUFFView\Models_6) Download CALPUFF-Version 6 Models from TRC Web Site CALPUFF-VISTAS Models: Download the latest models from TRC's web site and place the exe files under the Models_V folder within the installation folder (C:\Lakes\CALPUFFView\Models_V) Download CALPUFF-VISTAS Models from TRC Web Site CALPUFF- EPA Approved Models: Download the latest models from TRC's web site and place the exe files under the Models folder within the installation folder (C:\Lakes\CALPUFFView\Models) Download CALPUFF-EPA Approved Models from TRC Web Site 

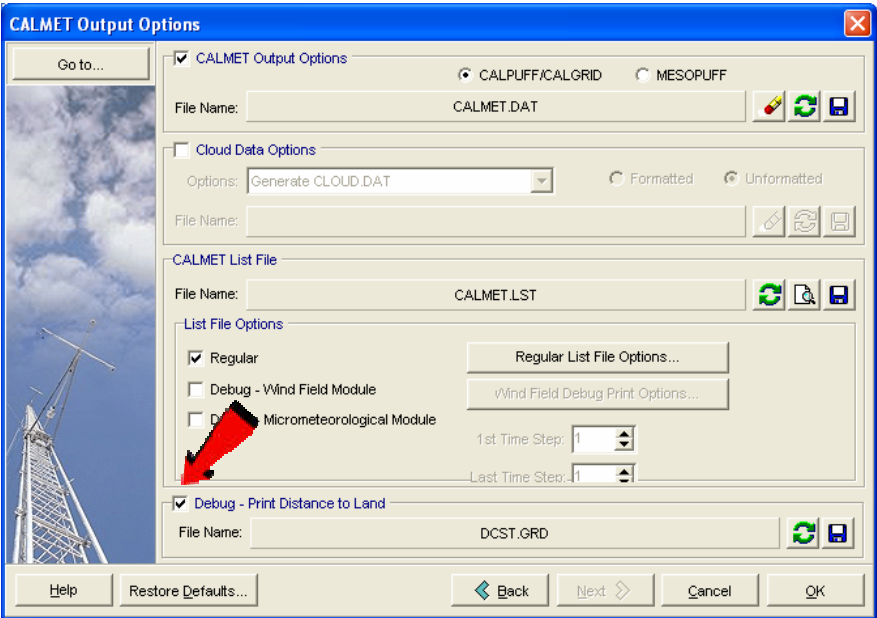
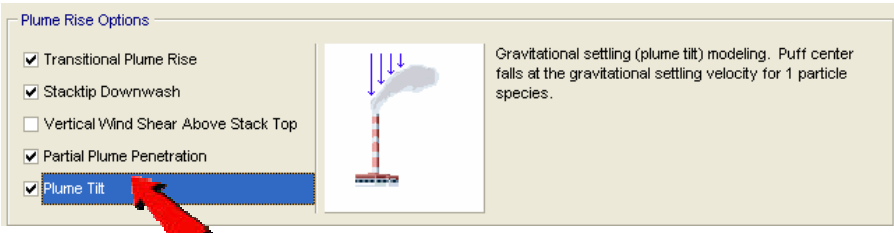
Topic	Feature Description
General	Checking for All Supported Model Versions The Models Check tool (select Tools Models Check menu option), can test for the availability and correct location of all the model EXE files necessary to run each one of the three supported model versions: • EPA Approved (Version 5) • VISTAS Recommended • Version 6 

Topic	Feature Description																				
General	Cell Face Heights Cell Face Heights can now be also specified in the Create New CALPUFF View Project Wizard. Default values are available for both the Refined and the Screening modes.  <table border="1" data-bbox="824 625 1047 814"> <thead> <tr> <th>Cell Face #</th><th>Cell Face Height (m)</th></tr> </thead> <tbody> <tr><td>1</td><td>0.0</td></tr> <tr><td>2</td><td>20.0</td></tr> <tr><td>3</td><td>40.0</td></tr> <tr><td>4</td><td>80.0</td></tr> <tr><td>5</td><td>160.0</td></tr> <tr><td>6</td><td>320.0</td></tr> </tbody> </table>  <table border="1" data-bbox="824 1192 1047 1297"> <thead> <tr> <th>Cell Face #</th><th>Cell Face Height (m)</th></tr> </thead> <tbody> <tr><td>1</td><td>0.0</td></tr> <tr><td>2</td><td>3000.0</td></tr> </tbody> </table> Tip In screening mode the upper cell face height should exceed the maximum expected mixing height.	Cell Face #	Cell Face Height (m)	1	0.0	2	20.0	3	40.0	4	80.0	5	160.0	6	320.0	Cell Face #	Cell Face Height (m)	1	0.0	2	3000.0
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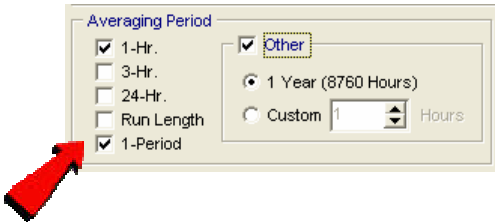
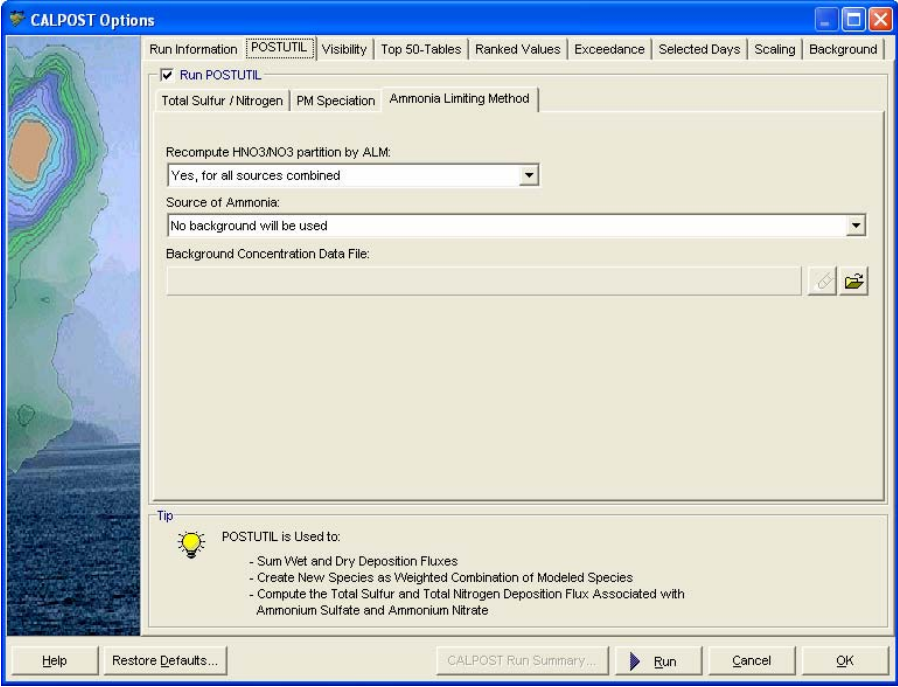
Topic	Feature Description
General	Date & Time Selector An improved Date & Time selector has been implemented in CALPUFF View and CALPUFF 3D to allow time steps less than one hour. 
CALPUFF CALMET CALPOST Options (Version 6)	Version 6 and VISTAS Model Options Interface options implemented in CALPUFF View Version 1.9 to support the VISTAS Version of the models (CALMET, CALPUFF, CALPOST) were also implemented to support the Version 6 of the models. For a description of these options, please see the Release Notes for CALPUFF View Version 1.9.
CALPUFF CALMET CALPOST Option (Version 6)	Run Period Definition The Run Period Definition options for the Version 6 of the CALMET, CALPUFF and CALPOST models are now defined by a starting and ending time, rather than a starting time and a run length. A time step of less than one hour (3600 s) is now allowed. 

Topic	Feature Description
General	Date and Time Auto-Fill – Run Period Definition When a date and/or time is entered into either the CALMET or CALPUFF - Run Information dialog, this date and/or time will be automatically entered into the other Run Information dialog if these fields were previously empty. 
CALMET Option (Version 6)	Ocean Land Use Category When using the Version 6 Models, the ocean land use category may be specified in the CALMET – Mixing Height Parameters dialog. 

Topic	Feature Description									
CALMET Option (Version 6)	Relative Humidity Parameters The option to either use relative humidity parameters from the SURF.DAT file or to use the prognostic relative humidity was implemented under the CALMET – Relative Humidity dialog. This option is compatible with Version 6 of the CALMET Model. 									
CALMET Option (Version 6)	Multiple MM5 Files Version 6 of the CALMET Model now accepts multiple consecutive or overlapping MM5/MM4 meteorological data. This option is available under the CALMET – Wind Field Options dialog.  <table data-bbox="474 1194 1359 1608"><thead><tr><th>#</th><th>File Name</th><th>File Size [Mb]</th></tr></thead><tbody><tr><td>1</td><td>MM5\M05010600_05011100.DAT</td><td>78.18</td></tr><tr><td>2</td><td>MM5\M05011100_05011600.DAT</td><td>78.18</td></tr></tbody></table>	#	File Name	File Size [Mb]	1	MM5\M05010600_05011100.DAT	78.18	2	MM5\M05011100_05011600.DAT	78.18
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2	MM5\M05011100_05011600.DAT	78.18								

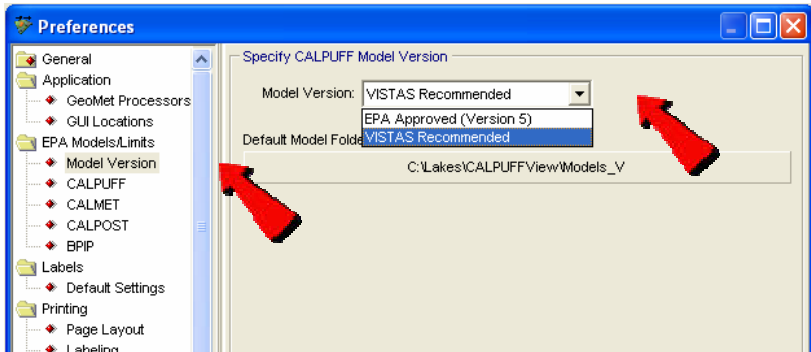
Topic	Feature Description
CALMET Option (Version 6)	Debug - Print Distance to Land Output Option Version 6 of the CALMET model includes the option to print distances to land to an output file. This option was implemented in the CALMET Output Options dialog. 
CALPUFF Option (Version 6)	Plume Tilt – Plume Rise Option The Plume Tilt (gravitational settling) option was implemented in the CALPUFF – Plume Rise dialog. This is an option introduced in Version 6 of the CALPUFF model. 

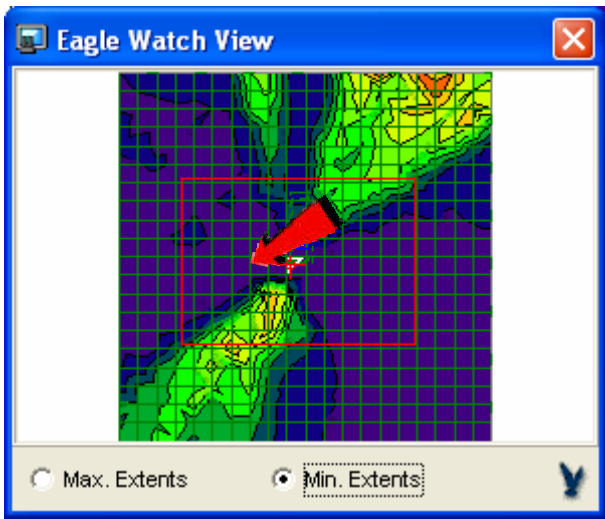
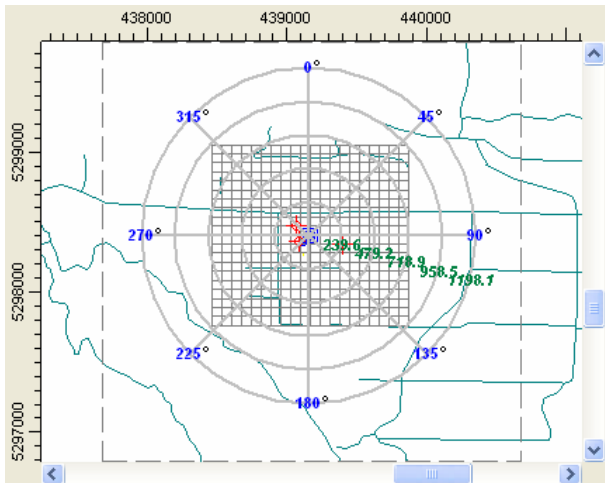
Topic	Feature Description
CALPUFF Option (Version 6)	Building Downwash Calculated by CALPUFF Version 6 of the CALPUFF model has the capability of calculating building downwash using either the ISC (Huber-Snyder / Schulman-Scire) or the PRIME method directly. This eliminates the need to run the BPIP program separately.
CALPUFF Option (Version 6)	QA Plot File Output Option Version 6 of the CALPUFF model has the option to output a QA plot file - a standard series of output files (e.g. locations of sources, receptors, grids ...) suitable for plotting. This option was implemented under the CALPUFF Output Options dialog – Binary Files & Debug tab.

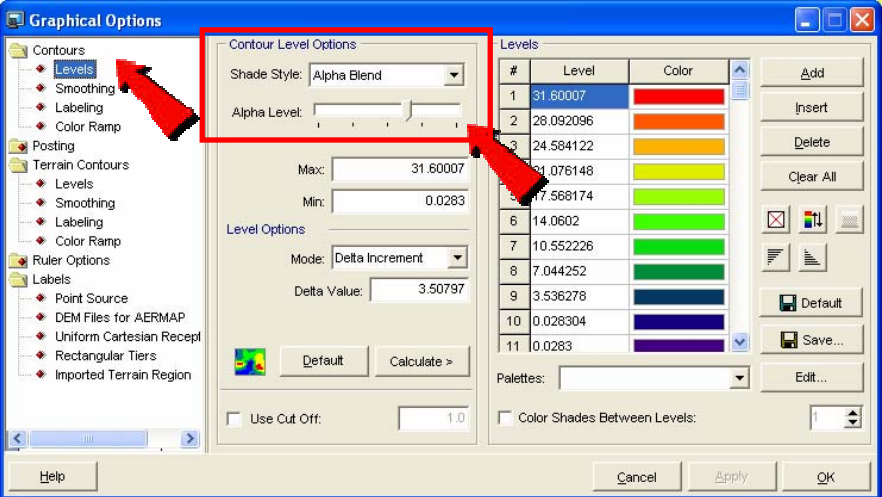
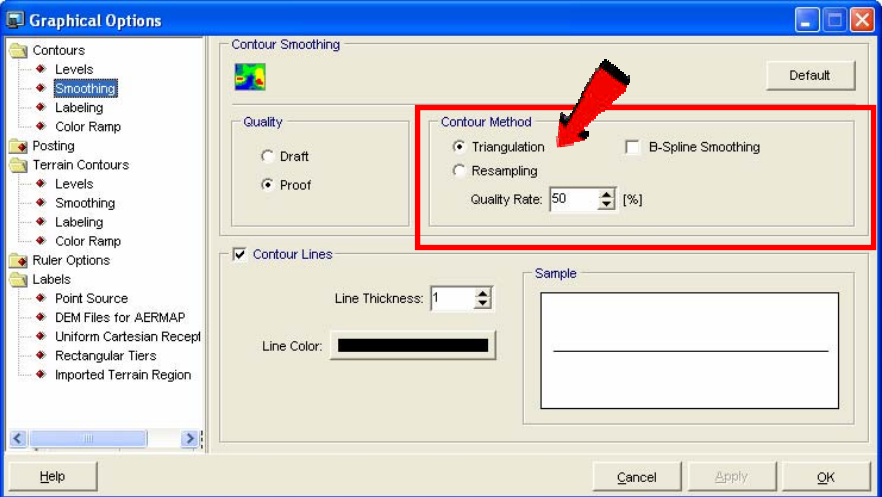
Topic	Feature Description
CALPOST Option (Version 6)	New Averaging Period (1-Period) An averaging period equal in length to the CALPUFF time step is now available in CALPOST Options – Run Information tab. This option is compatible with Version 6 of the CALMET model only. 
CALPOST Option (Version 6)	One Step ALM The Ammonia Limiting Method in CALPOST may now be completed in a single step. 

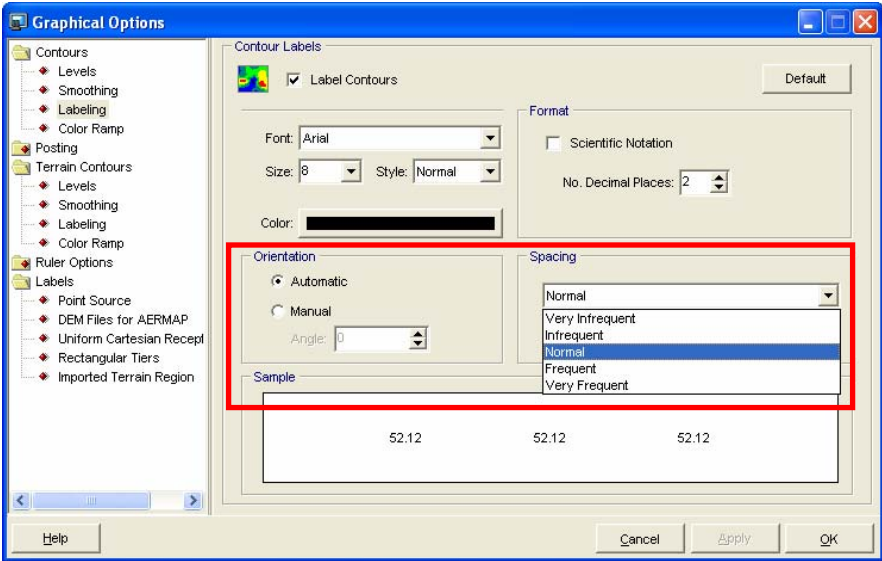
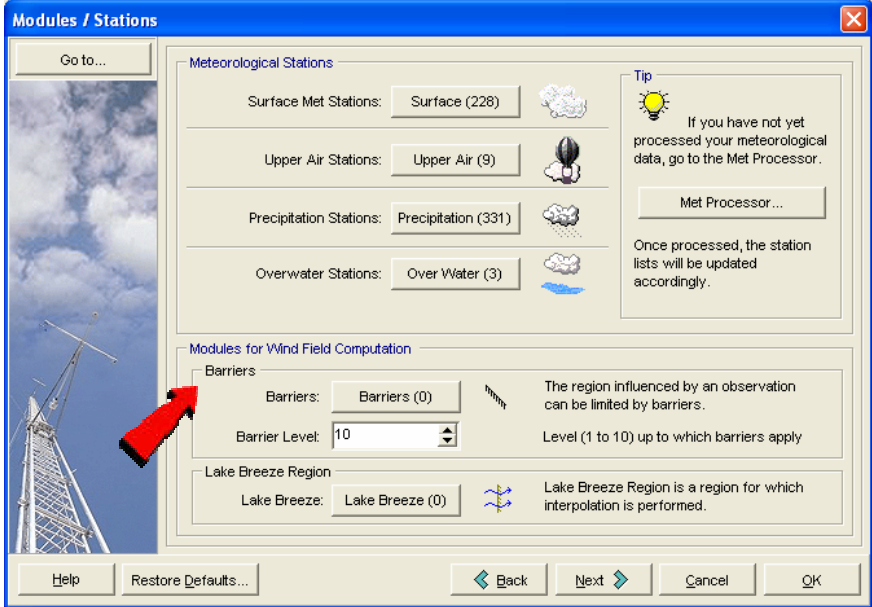
CALPUFF View Version 1.9

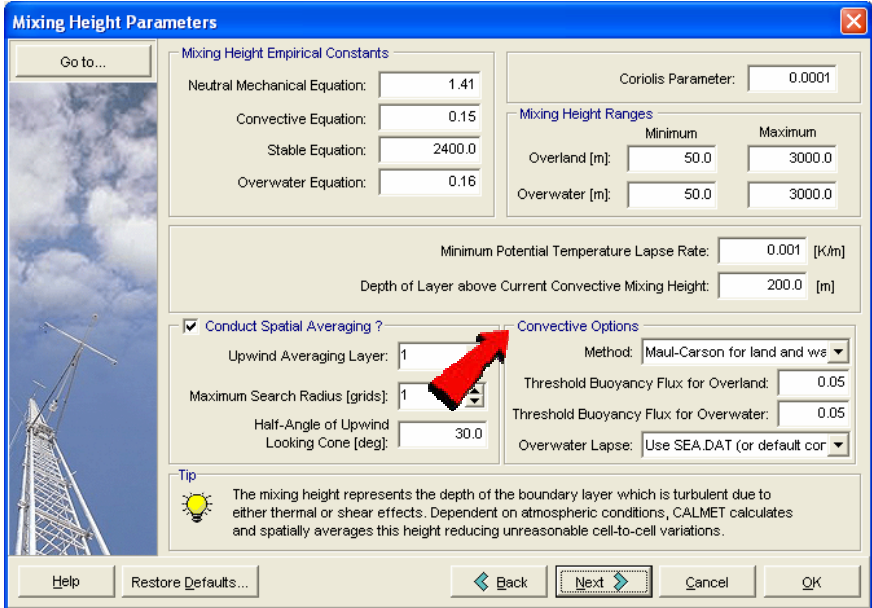
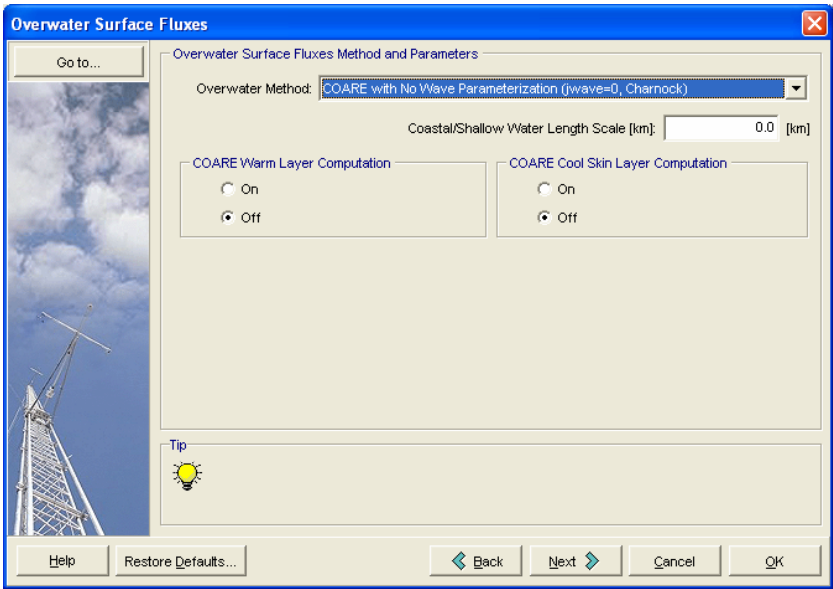
Release Notes July 13, 2006

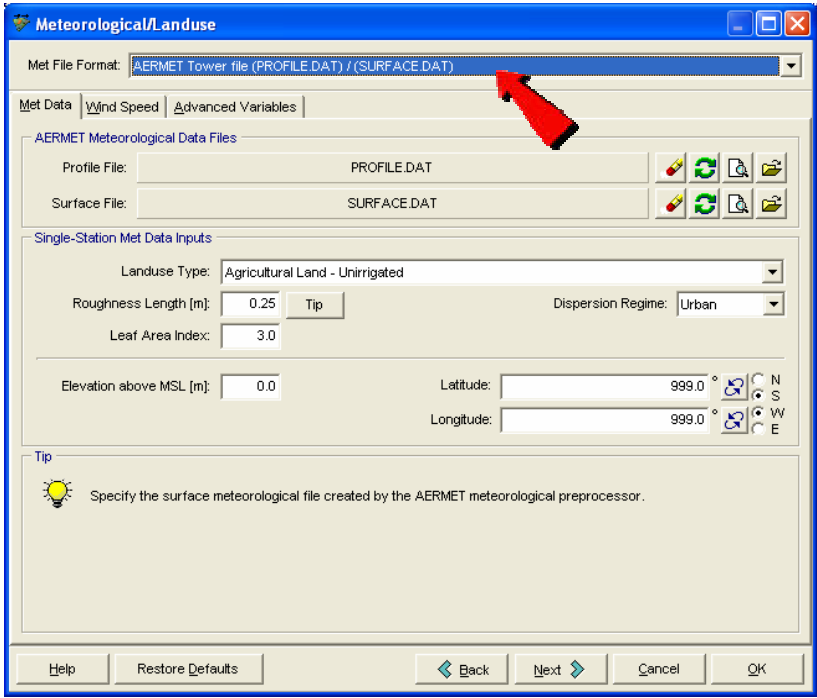
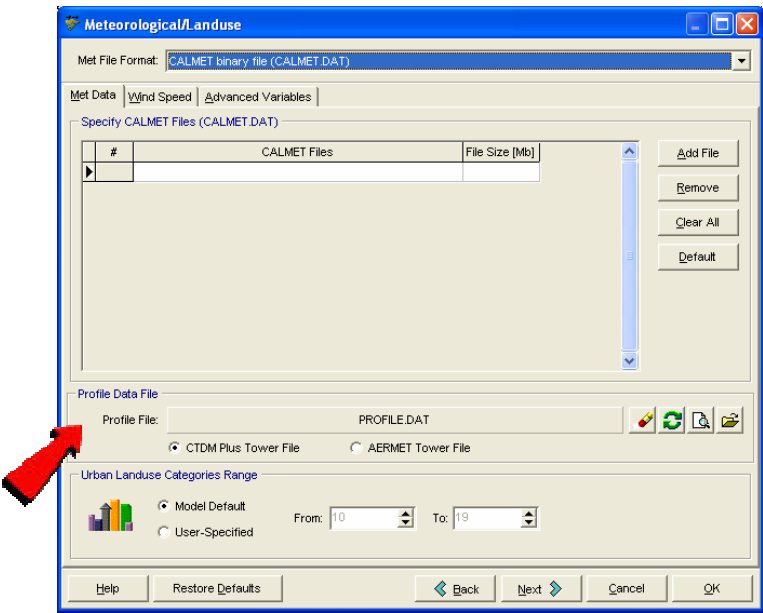
Topic	Feature Description
Models	CALPUFF – VISTAS Recommended for BART Modeling The version of the CALPUFF modeling system recommended by VISTAS (and other Regional Planning Organizations) for Best Available Retrofit Technology (BART) analyses is now fully supported in the CALPUFF View interface. Model Versions supported by CALPUFF View Version 1.9 are: ◆ CALPUFF - Version 5.754 - February 2, 2006 ◆ CALMET - Version 5.724 - April 14, 2006 ◆ CALPOST - Version 5.6393 - February 2, 2006
Models	Model Preferences You can now switch seamlessly between the VISTAS Recommended and EPA Approved CALPUFF Models – model executables are specified independently for each setting. This option is available by selecting File Preferences from the menu and then selecting the Model Version panel. CALPUFF-VISTAS models: Download the latest models from TRC's web site and place the exe files under the Models_V folder within the installation folder (C:\Lakes\CALPUFFView\Models_V) Download CALPUFF-VISTAS Models from TRC Web Site CALPUFF- EPA Approved models: Download the latest models from TRC's web site and place the exe files under the Models folder within the installation folder (C:\Lakes\CALPUFFView\Models) Download CALPUFF-EPA Approved Models from TRC Web Site 

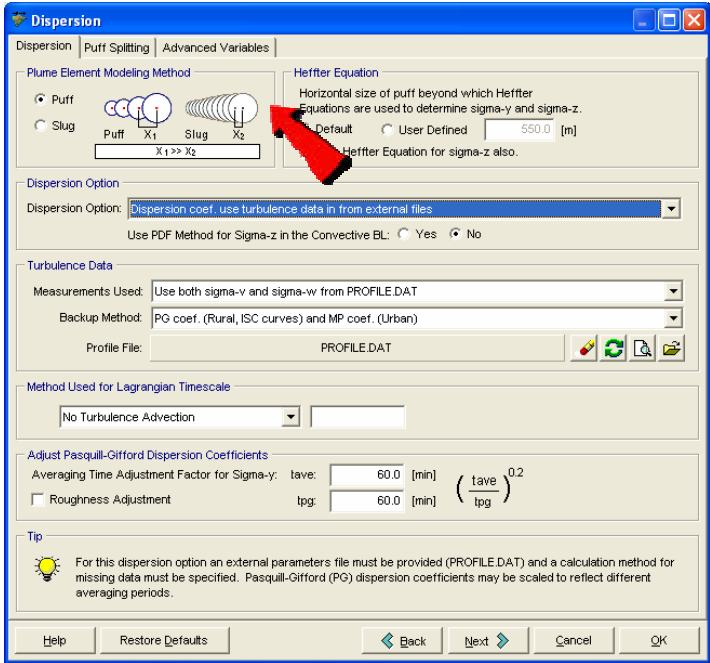
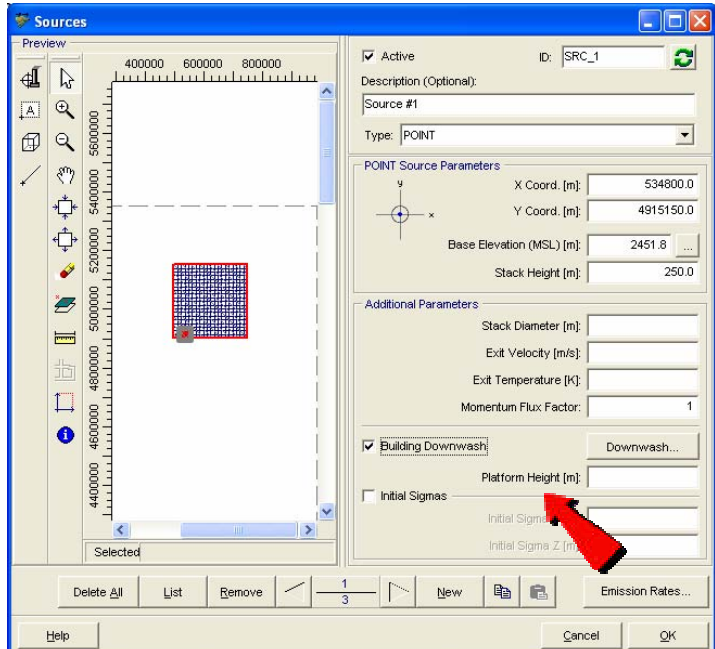
Topic	Feature Description
Graphical Tool	New Eagle Watch View Tool  The Eagle Watch View tool displays a small window showing the full extents of your modeling domain with a red rectangle marking the area that is currently displayed in the main graphical area. In the Eagle Watch View window, you can use the mouse pointer to draw a new rectangle around the area that you would like to zoom in on. This will automatically update the display in the main window. 
Graphical Tool	New Web Annotation Tool  The Web Annotation tool allows you to draw a polar grid with the option to specify rings, rays, and labels at specific distances for annotation purposes only. This annotation tool can be especially useful when used as a scaling tool for graphical visualization of the modeling area and its dimensions. 

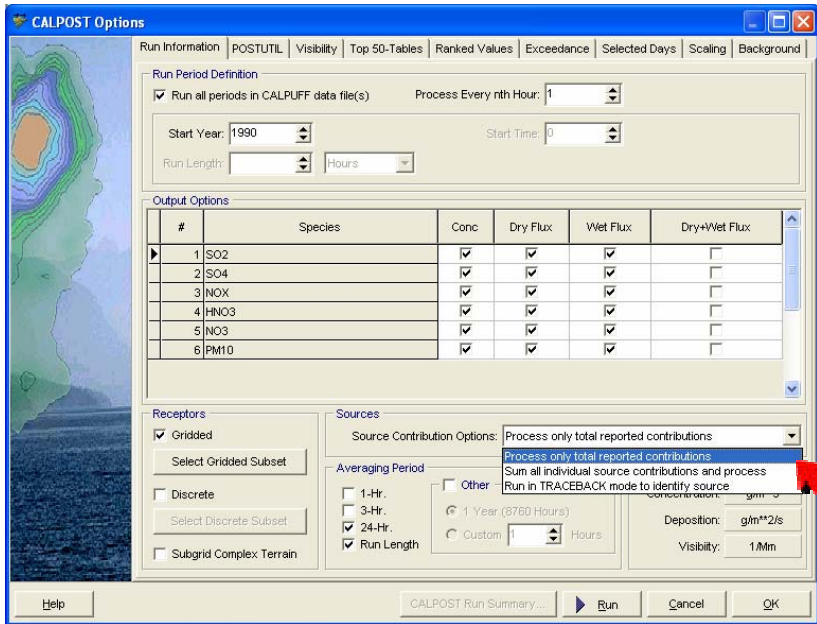
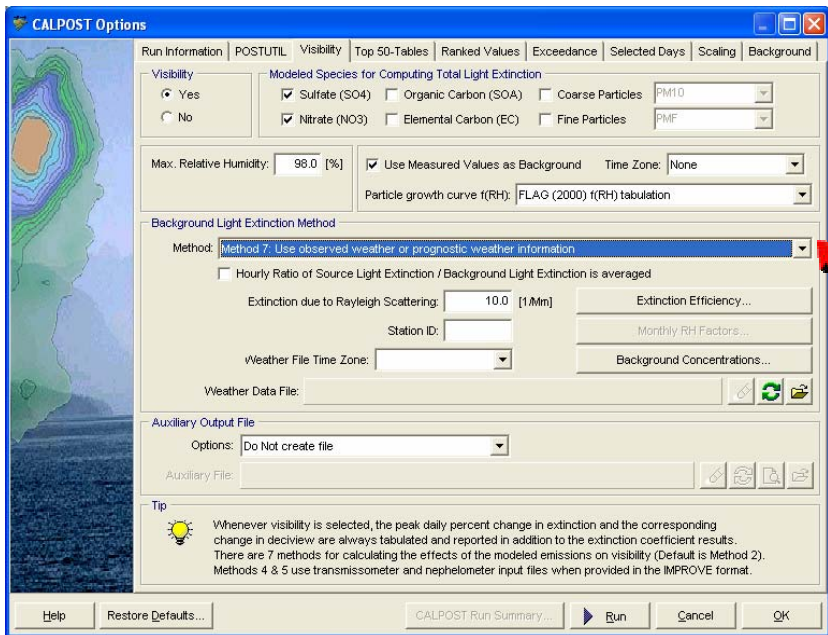
Topic	Feature Description
Graphical Options	Transparency Option for Contours Using Alpha Blending Alpha Blending has been implemented to support real transparency of your concentration or terrain contours. You can access this option from the <i>Graphical Options</i> dialog, <i>Levels</i> panel, <i>Shade Style</i> drop-down list box. 
Graphical Options	New Contour Method – Triangulation A new contouring method, Triangulation, has been added to the Contour Smoothing options in the <i>Graphical Options</i> dialog. While the contours created by the <i>Triangulation</i> method may not be as smooth as those created by the <i>Resampling</i> method, they may be more representative in some cases. 

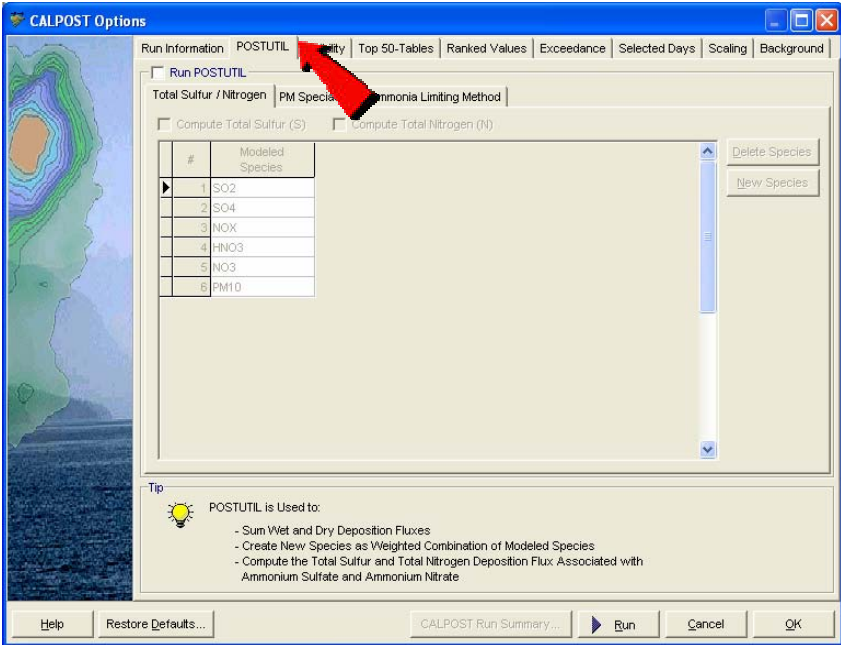
Topic	Feature Description
Graphical Options	New Contour Label Options – Orientation and Spacing Two new contour label options are available, <i>Orientation</i> and <i>Spacing</i>. You can now specify the orientation angle, as well as the spacing between labels, for contour labels. These options can be accessed from the <i>Graphical Options</i> dialog, <i>Labelling</i> panel for concentration or terrain contours. 
VISTAS CALMET	Barrier Levels The VISTAS version of CALMET now includes barriers, which may be used to limit the influence of an observation. 

Topic	Feature Description
VISTAS CALMET	Convective Options A series of convective options have been introduced in the VISTAS version of CALMET. 
VISTAS CALMET	Overwater Surface Fluxes New methods for the calculation of overwater surface fluxes have been introduced in the VISTAS version of CALMET. 

Topic	Feature Description
VISTAS CALPUFF	New Met File Format AERMET tower file has been added as an accepted met file format. 
VISTAS CALPUFF	Profile Data file VISTAS CALPUFF accepts a profile data file to be used in addition to another met file (E.g. CALMET.DAT) 

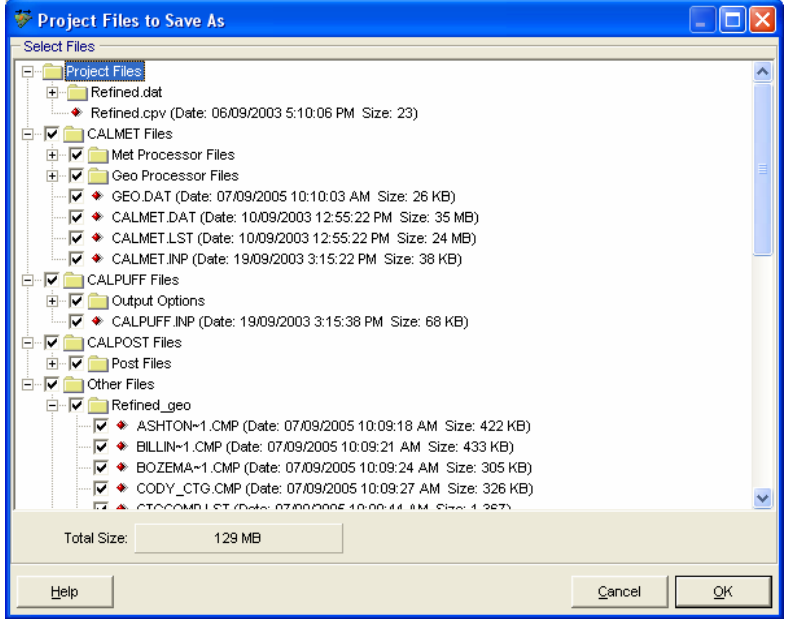
Topic	Feature Description
VISTAS CALPUFF	Additional Dispersion Options Dispersion options have been added to the VISTAS CALPUFF, including turbulence data and Lagrangian timescale methods. 
VISTAS CALPUFF	Platform Height The VISTAS version of CALPUFF now contains a platform height parameter for point sources. 

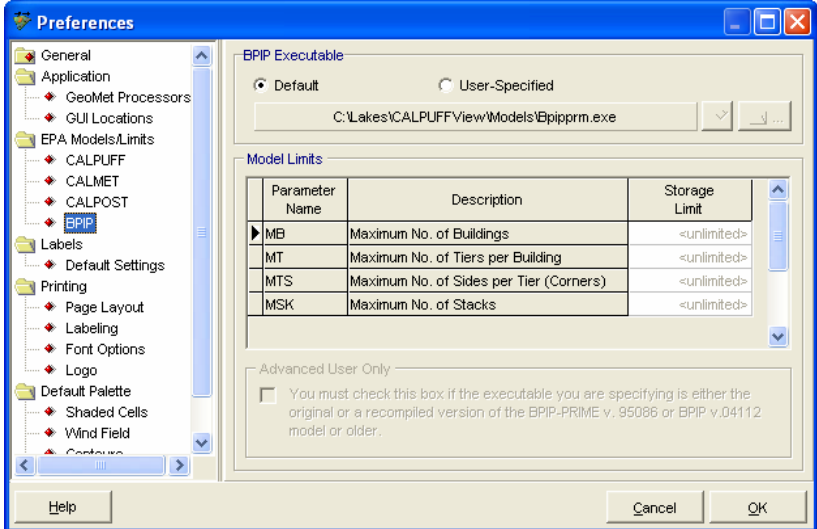
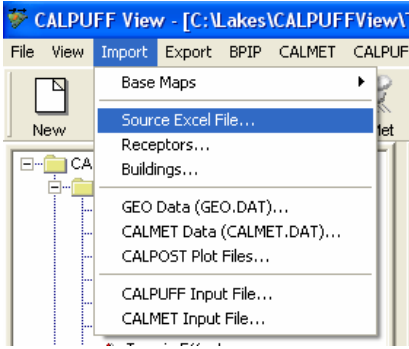
Topic	Feature Description
VISTAS CALPOST	Source Contribution Options The VISTAS version of CALPOST includes source contribution options. 
VISTAS CALPOST	New Light Extinction Methods A seventh method of light extinction – “use observed weather or prognostic weather information” – has been added to the VISTAS CALPOST. 

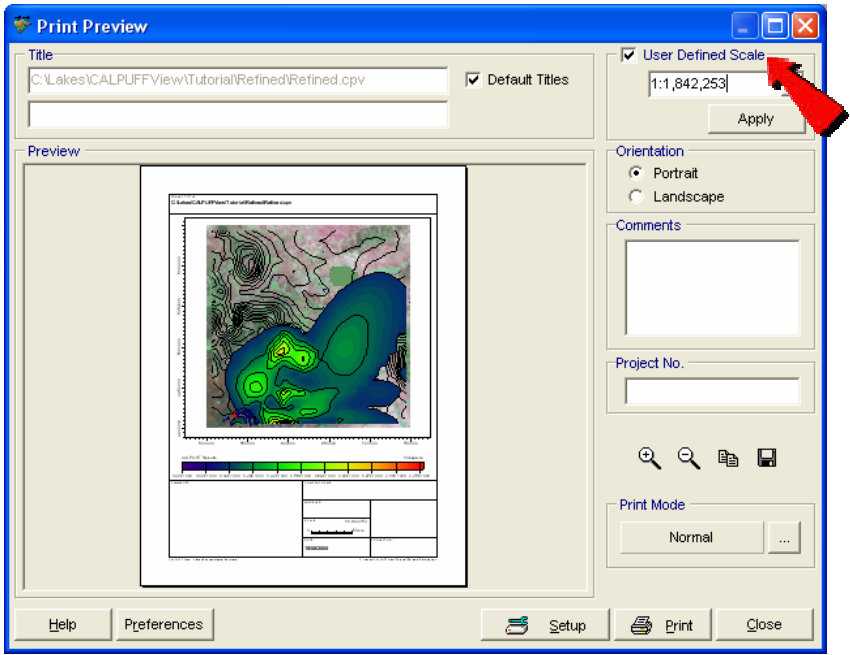
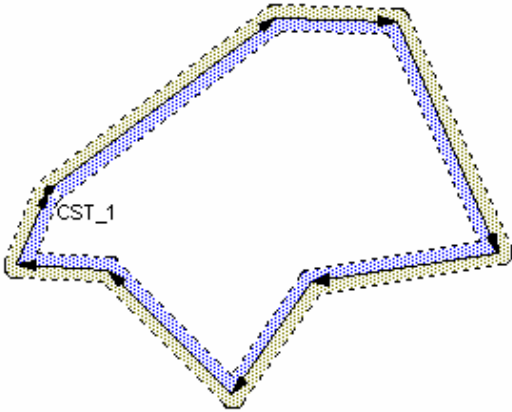
Topic	Feature Description
VISTAS CALPOST	POSTUTIL TAB In VISTAS mode, CALPOST contains a separate POSTUTIL tab. 

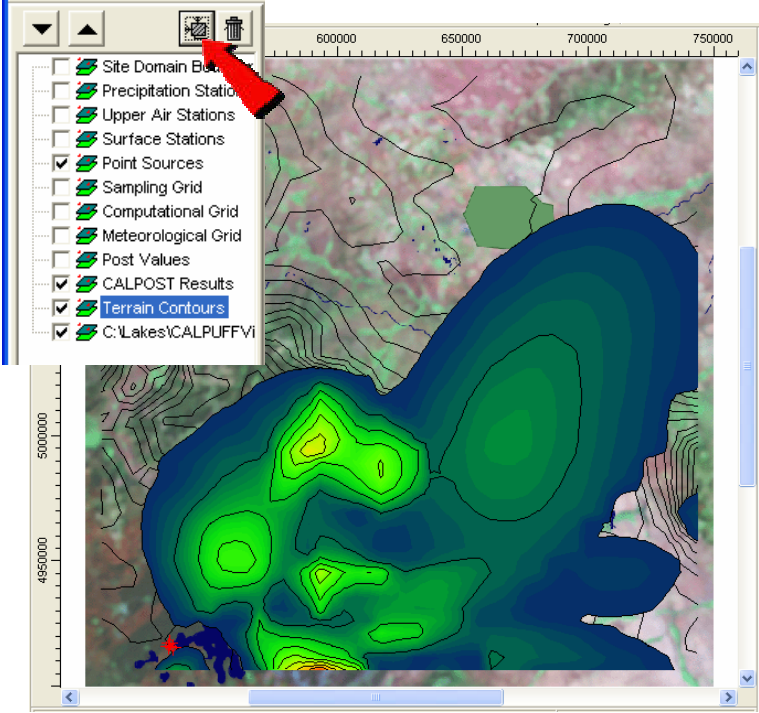
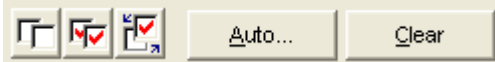
CALPUFF View Version 1.7

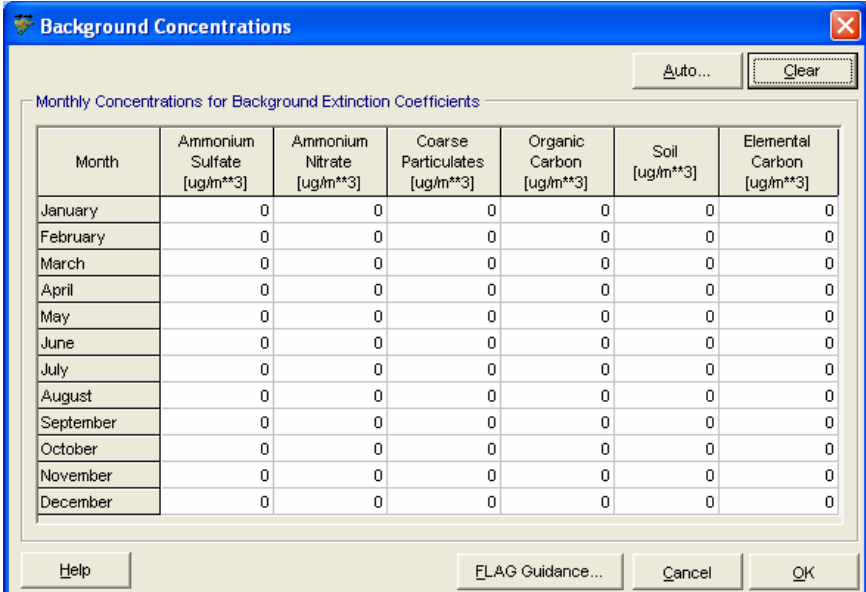
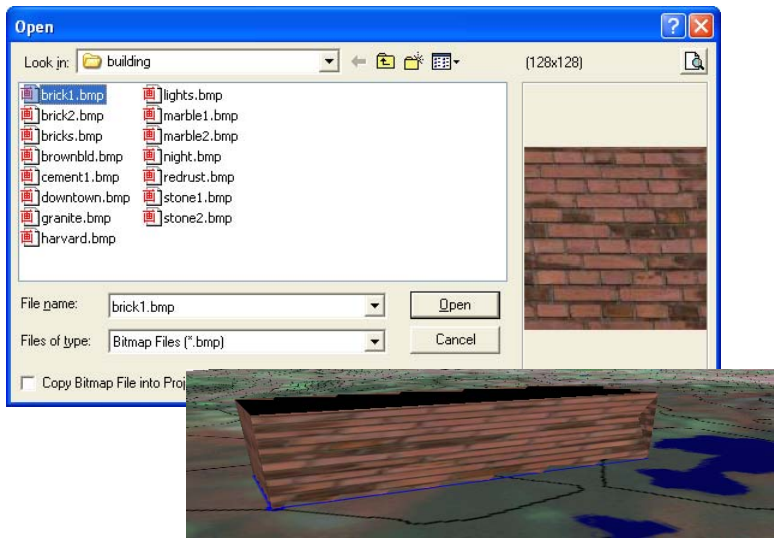
Release Notes Sep 27, 2005

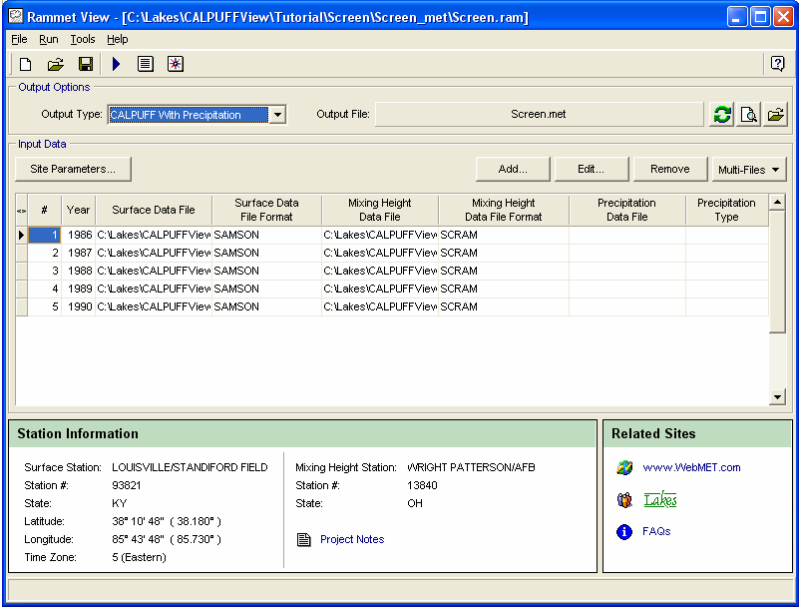
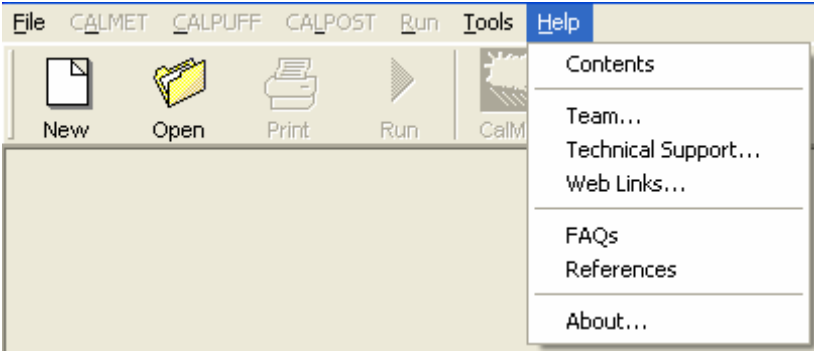
Topic	Feature Description
Installation	Default Installation Path CALPUFF View is now being installed, by default, under C:\Lakes\CALPUFFView instead of C:\CALPUFFView. Tutorial files are also being included with the install.
General	Save Project As CALPUFF View now has a Save Project As feature that allows you to save your current project under another name. You may also choose which files you wish to include in the new project folder. 

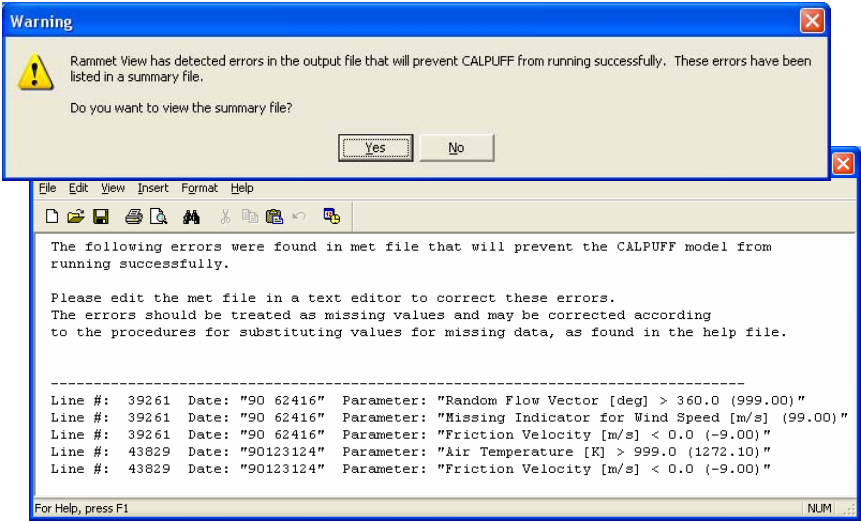
Topic	Feature Description															
BPIP	Latest U.S. EPA BPIP PRIME Model The latest U.S. EPA BPIP model (BPIP.RRM.EXE dated 04274) is now being included with this version. This latest model allows for an unlimited number of buildings, tiers, stacks, etc.  <table><thead><tr><th>Parameter Name</th><th>Description</th><th>Storage Limit</th></tr></thead><tbody><tr><td>MB</td><td>Maximum No. of Buildings</td><td><unlimited></td></tr><tr><td>MT</td><td>Maximum No. of Tiers per Building</td><td><unlimited></td></tr><tr><td>MTS</td><td>Maximum No. of Sides per Tier (Corners)</td><td><unlimited></td></tr><tr><td>MSK</td><td>Maximum No. of Stacks</td><td><unlimited></td></tr></tbody></table>	Parameter Name	Description	Storage Limit	MB	Maximum No. of Buildings	<unlimited>	MT	Maximum No. of Tiers per Building	<unlimited>	MTS	Maximum No. of Sides per Tier (Corners)	<unlimited>	MSK	Maximum No. of Stacks	<unlimited>
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MTS	Maximum No. of Sides per Tier (Corners)	<unlimited>														
MSK	Maximum No. of Stacks	<unlimited>														
General	Import Sources from Excel Sources can now be imported directly from Excel; this includes source parameters and emission rates. The Excel file, Source-Parameters.xls, is being supplied in the installation under the folder "Templates". This file contains the format structure that your Excel file should have in order for CALPUFF View to successfully import sources parameters and emissions from your Excel file. See the help files for more information. 															

Topic	Feature Description
General	Printing to Scale You can now specify the scale of your printouts. Select from a predefined list, or type in the desired scale. 
General	Coastline Tool An improved coastline tool now maintains land/water color indicators for closed polygons. 

Topic	Feature Description
General	Zoom to Overlay Tool A Zoom to Overlay option has been added to the Overlays tab of the Tree View allowing you to zoom to a specified layer. 
General	Grid Spacing When creating a new project, the computational grid may now be specified with greater accuracy.
General	UTM Coordinate Check UTM coordinates are now checked to ensure they are within a valid range. A warning will be issued if they are not.
General	Import From ISC The “Create from ISC input file” tool has an improved ability to import rotated area sources.
CALPOST	Run Period Check The run period check in CALPOST has been corrected.
CALPOST	Select Tools New select tools have been added to CALPOST to help you enter your data more quickly. 

Topic	Feature Description
CALPOST	Monthly Concentrations for Background Extinction The default values for the Monthly Concentration for Background Extinction Coefficients have been changed to zero. In addition, a FLAG Guidance suggested values button has been added. 
3D View	Building Textures BITMAP files for the building textures in 3D View have been added to the CALPUFF View installation. 

Topic	Feature Description
CALMET	Run Period Check The CALPUFF run period is now checked for validity against the CALMET meteorological period.
RAMMET	Multi-Year Rammet View Rammet View can now easily process multiple years of data in its completely redesigned interface. You have the option to output a combined multi-year file in addition to individual year files. This avoids the need for multiple runs to create a multi-year file. 
Documentation	FAQs and References FAQs and reference articles are now available directly from the help menu. The FAQ page will require your user name and password, the references page will not. 

Topic	Feature Description
General	Source Check Before running, CALPUFF will now check that all sources are within the computational grid.
Documentation	Help File and User's Guide The Help File, User's Guide, and Getting Started guide have been revised and improved.
RAMMET	Error Checking Rammet View now includes a built-in error checker that will search for and identify errors in the meteorological data file that will cause CALPUFF runs to fail. 
General	Show Terrain Tool The Show Terrain Tool allows you to easily switch between hiding and viewing the terrain contours. 