

Explorer 2.2.1 Release Notes

These release notes cover all the changes and announcements for DUMPStat Explorer versions 2.2.1 and 2.2.

Version 2.2.1

Version 2.2.1 is a maintenance release to correct minor problems that were found since the release of version 2.2.

'Site not found' no longer appears during first load attempt

Explorer no longer displays 'Site not found' when loading a site that was saved in a directory other than the program directory the first time an attempt is made to open it.

Legend printing corrected

In some circumstances the last legend item in Trilinear diagrams was not being correctly printed. This has been fixed so that all legend items now print under all circumstances.

Data merging has been improved

The program is more robust when unexpected text in data files is encountered during data merging.

Network floating licensing added

Floating network licensing has been added. This feature allows multiple people to share an Explorer license over a local area network permitting up to a fixed number of concurrent users.

Version 2.2

This is the first version of Explorer to allow direct data import without relying on DUMPStat or CARStat, allowing unlimited site use with no restrictions. Other new features include additional database tools; regression line printing options; and time-saving commands like mass deletion of incomplete graph items with a single click, and changing the major constituent or well in time series.

Explorer now with its own database functionality

Explorer can now be used on its own without DUMPStat or CARStat

Explorer can now import data directly into the program and save its own site information. It may be used with an unlimited number of sites and there are no licensing restrictions. You may also continue to use Explorer with CARStat and DUMPStat sites; in this case the site must be currently loaded in CARStat or DUMPStat for Explorer to be able to use the data.

How to set up a new site in Explorer:

1. If you already have Explorer open, choose File > Open Site. If you are opening Explorer, you may create a new site from the introductory screen.
2. Select New Explorer Site.
3. In the Save Explorer Site window, enter a file name for the new site and click on Save.
4. In the Site Information window, enter a name for the site as you would like it to appear in on printed output. You may enter additional information as desired. Click on OK when you have finished.

Additional database capabilities

Explorer allows additional database functionality, such as setting aliases for wells and constituents, changing capitalization globally, and setting units for constituents.

- Set Aliases: allows you to globally replace one constituent or well name with another. This is reversible, if you wish to undo the change later.
- Set Units: allows you to set units for constituents such that all instances of that constituent are displayed in those units.
- Set Capitalization: allows you to make case-related changes to unit, constituent, and well names.

Unit Equivalences can be deleted

Unit equivalences can now be deleted if you have made an error or do not wish to have a particular pair interchangeable. This is done in the Unit Equivalences window accessed from either the Settings Menu or the Set Units dialog.

Other enhancements

Regression line information can now be printed on graphs

For time series and scatter plots, you can choose to print regression information on the graphs and what aspects of the information to include. Regression information includes slope, Y-intercept, and correlation coefficient. These options can be set at File > Page Layout.

The regression information can be viewed onscreen by hovering the cursor over a point in the legend box; and it can also be viewed and printed in tabular form by selecting View > View Summary.

Change the major item by pressing F2 in time series

Time series are always based on a single well or constituent, and show concentrations over time for various constituents or wells, respectively. The major item is chosen when you first create the graph, and until now was not editable afterwards. Now you can change the well or constituent to another selection by choosing Edit > Change Well/Constituent, or by simply pressing F2. This saves you from having to create another graph from scratch.

Chemical signature defaults now available

Chemical Signatures can be saved and restored and a 'factory default' signature is now available should you wish to revert to a known state. The default signature is called 'Original Settings' in the saved list and cannot be edited. You may reload it by clicking on Restore from Settings > Select Ions.

View Samples & View Summary tables now sortable

The View Samples and View Summary tables can now be sorted by any one column. Simply click on the header of the desired sorting column to change the ordering. The rows will be sorted in ascending order; and you can click the header a second time to sort the rows in descending order.

Backup copy of site saved in case of unexpected failure

When you work with an Explorer site, an extra copy is kept available should the currently used copy becomes unstable for any reason or unreadable due to an unexpected failure. The next time this site is opened in Explorer, you will be informed that the site had not been closed correctly and may be damaged. In this case you can revert to the last saved version of the site if you choose.

Can have multiple instances of Explorer running

You may now work with multiple instances of Explorer, allowing you to have many sites open at once, including the current DUMPStat/CARStat site. You may not open more than one instance of any one site.

Improved multi-select functionality

Multiple list box items and Stiff patterns can now be selected more easily. This includes legend boxes in Trilinear diagrams, time series, and scatter plots; as well as the selection lists that appear when you create a graph or add points to it. Select an item, then SHIFT + select another to highlight all in between. Select an item, then CTRL + select another to select two nonconsecutive items.

All analyses can include or exclude individual samples

In the View Samples dialog for all analysis types, you may check or uncheck the boxes in the Include Samples column to hand-choose which individual samples make up the point or pattern you have selected.

Delete all incomplete patterns or points with a single click

For Stiff patterns and Trilinear diagrams, you may now delete all incomplete items by choosing Edit > Delete All Incomplete Patterns/Points. This prevents you from having to find and delete all incomplete items individually—a daunting task with large numbers of patterns or points.

Improved Select Symbol dialog

For Trilinear diagrams, time series, and scatter plots, the Symbol chooser window is now clearer. You may select No Symbol as well, if you wish to have only the regression line displayed, without markers.

Search capability added for long lists

For lists of constituents and wells, a search box has been added to aid in finding items if the list is long. You can type in the first few letters of the item you are searching for, and the list will automatically scroll to the appropriate place.

Explorer now works more smoothly with DUMPStat and CARStat

When DUMPStat/CARStat and Explorer are using the same site, there used to be conflicts when each program was attempting to access the database. There is now a higher degree of compatibility between the two programs, and there will be no failures if the database is being accessed simultaneously. Instead, you will be told that another program is using the data, and that it must be closed temporarily to proceed.

Outstanding issues

Axis option in Plot Properties not yet available

In time series and scatter plots, you may set axis scaling by choosing Settings > Plot Options. The dropdown list offers 'Fixed' as one of the options. This option is not yet functional, and refers to user defaults that will be configurable in the next release of Explorer. If you choose Fixed, you will see a message box informing you that the option is currently unavailable, and Explorer will keep your previous selection for this particular setting.