

New Features

This is an overview of some of **Surfer 10's** new features.

User Friendly

- Install 32-bit or 64-bit version of **Surfer 10**.
- Access and change properties for all objects in the always available [Property Manager](#).
- Updated to modern Windows look.
- Use the mouse scroll wheel in the object manager.
- [View | Reset Windows](#) returns the managers to the default location and size.
- **Tools | Options** can be accessed from any open window.
- Blanked nodes displayed in [Grid Node Editor](#) window as different color and shape.

Map Features

- Import maps in [projected coordinates](#).
- [Change the projection](#) of maps.
- Overlay maps from different coordinate systems with all maps appearing at the correct location.
- Save time! [Grid | Math](#) and [Grid | Function](#) save the equation used between **Surfer** sessions. Up to 10 functions are saved in the drop-down box.
- [Reverse](#) any color map.
- Due to popular demand, [Map | Overlay Maps](#) command is again available.
- Option to [automatically delete empty map layers](#) when dragging and dropping maps.
- [Save a data file](#) from any post or classed post map.
- [Extract a grid file](#) from any grid based contour, image, shaded relief, vector, wireframe, or surface map.
- Increase post map [label distance](#) to 4 inches in either direction.
- Specify [starting and ending rows](#) for post map data files.
- Status bar option [shows XYZ value](#) for selected map layer.
- [Export contour lines](#) to XYZ data file using **Map | Export Contours**.
- Export to [Google KML and KMZ](#) file formats.
- Set contour map levels using either the [Simple](#) or [Advanced](#) contour level method.

Drawing and Digitizing Features

- New [Spline Polyline](#) drawing tool creates smooth lines between polyline points.
- [Digitize X, Y, and Z values](#) using the **Map | Digitize** command.
- Set number of digits and [numeric format](#) for digitized values in **Map | Digitize** dialog.

Data Features

- Surfer now supports [Access ACCDB](#) file format.
- Import [queries](#) from Access MDB and ACCDB files.
- [Assign a coordinate system](#) to a data file. Save the coordinate system information to an external file.

Grid Features

- Combine as many grid files as desired in the [Grid | Math](#) process.
- Define how to treat blank nodes using [Grid | Math](#) command. Either blank the output or remap to a value. You determine what value to use for each grid individually.
- New [Grid | Grid Info](#) command determines information about a grid without first creating a map.
- More convenient! Grid line geometry settings are remembered when changing gridding method or properties in the [Grid Data](#) dialog.
- When using a [Data Exclusion Filter](#) for **Grid | Data**, **Grid | Variogram**, or in a worksheet using **Data | Spatial Filter**, data can be excluded based on numeric information in any column.
- New sum overlap method for [Grid | Mosaic](#) allows overlapping grids to be added together.
- [Assign a coordinate system](#) to a grid file. Save the coordinate system to an external file.

Automation

- [Load .CLR file](#) for a contour map from a script.
- [Reverse](#) any color map from a script.
- Change the grid file for a surface map and wireframe map from a script.
- Show or hide the position/size toolbar from a script.

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