

New Features

This is an overview of some of **Surfer 16's** new features.

User Friendly

- A new [Grid Data Advanced Options](#) dialog includes a scatter plot, search ellipse, and easier to use controls
- Quickly transfer styles between objects with [Copy Format](#) and [Paste Format](#)

Map Features

- [Contour labels](#) can be drawn along the curved path of the contours
- Generate [equal area contour](#) levels
- The new [Colormap Editor](#) includes opacity mapping, color stretch by histogram equalization or even distribution, and new interpolation methods
- Display post, classed post, and base (vector) layers as 3D scatterplots in the [3D view](#) window
- The contour map [color scale bar](#) can show the line style from the contour levels
- Format numeric base map [labels](#)
- The shaded relief map has been combined with the [color relief](#) map
- [Add geometry attributes](#) to the **Attribute Table**
- Create new or modify existing attributes by [calculating attributes](#) in the **Attribute Table**

Gridding Features

- The [Kriging](#) gridding method now supports Kriging with external drift
- Copy grid geometry from an existing grid when creating a new grid with the [Grid Data](#), [Mosaic](#), [Grid from Contours](#) commands or [Map Wizard](#)

Drawing and Boundary Editing Features

- [Move or copy features](#) to different base layers with a command or by dragging and dropping the feature in the [Contents](#) window
- Move, copy, or export features returned by a [Query](#)
- [Duplicate](#) objects

Import and Export Improvements

- Export [DBF files](#)
- Export [GPX files](#)

- Import Esri [MDB files](#)
- Import [GDB files](#)
- Import and export Adobe addendum style [GeoPDF](#) files

Automation

- Add and edit a [graticule](#)
- Perform [queries](#)
- Perform geoprocessing commands: [line thinning](#), [line smoothing](#), [buffer](#), [create intersection points](#), [change type](#), [connect polylines](#), [union](#), [intersect](#), [or difference of polygons](#), [break polyline](#), [break polyline at intersections](#), [combine island/lakes](#), and [split island/lakes](#)
- Save the [gridding report](#) and [grid volume reports](#) to TXT or RTF files

Projections, Coordinate Systems, and Datums

- New Coordinate System: EPSG 2169 (Luxembourg 1930 Gauss)
- New Coordinate Systems: various Australia GDA2020 systems
- New Coordinate Systems: various Africa UTM Zones
- New Datum: GDA2020