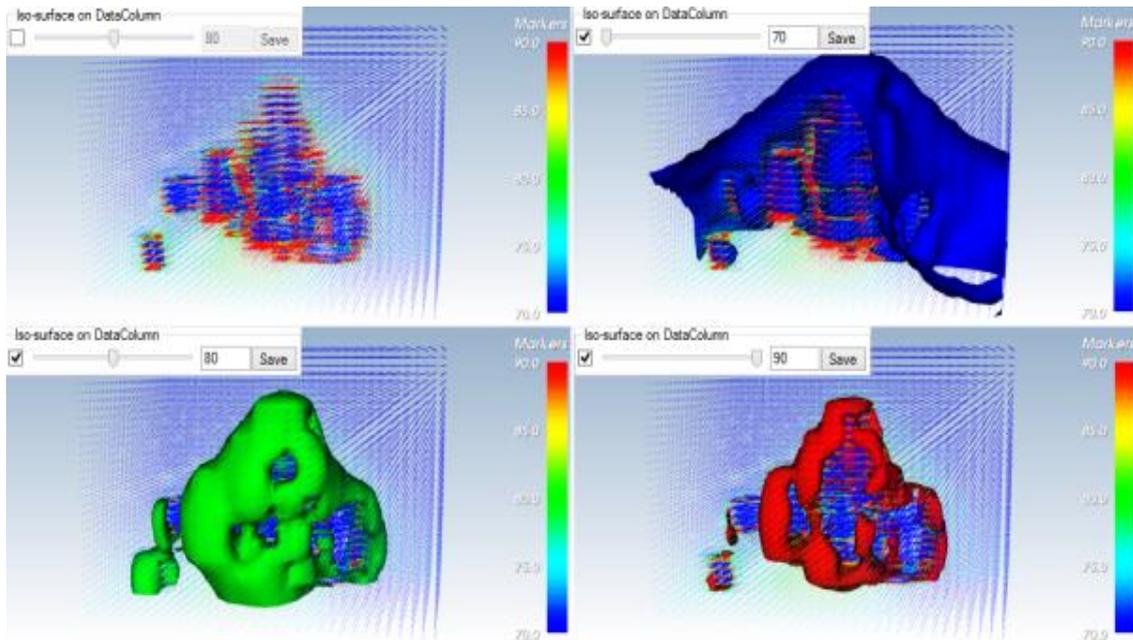


Ever wished you could easily create iso-surfaces from data points and save them as DXF-files?

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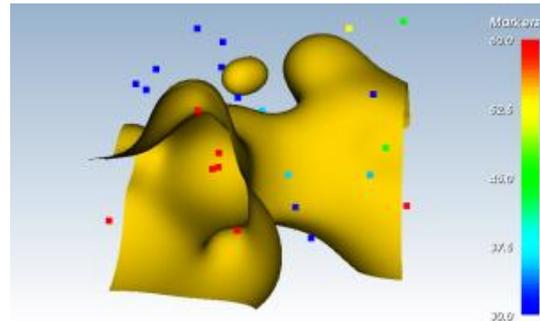
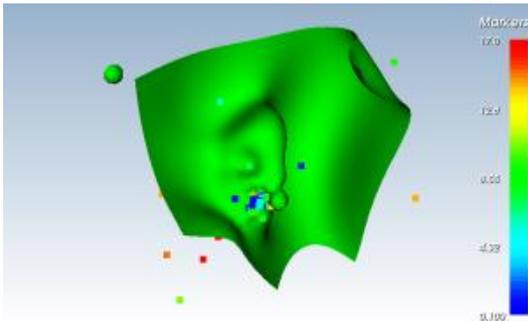
*Iso-surfaces of Map3D results created with multiple grids and exported as points, many thanks to Ben Barsanti for playing with me to fine tune the iso-surface capability and providing the data file.*

## Creating iso-surfaces cannot get any simpler

Iso-surface creation is complex in the few programs that support implicit modelling. GEM4D largely automates the process and intelligently select appropriate set-up parameters, all you have to do:

1. Press the **"Marker"** button in the top toolbar to load a comma- or TAB-delimited file that is formatted as Easting, Northing, mRL, DataColumn1, DataColumn2 ...
2. Select a column to colour code in **"DataColumn"** to activate the iso-surface capability.
3. Check the **"Iso-surface on DataColumn"** checkbox.
4. Drag the slider to dynamically and instantaneously change the iso-surface according to the selected value, or fill in a specific value in the text box next to the slider.

5. Press the **"Save DXF"** button below the slider to save the iso-surface as a DXF-file.
  - For a step-by-step explanation with screenshots go to [My blog](#).
  - A fully functional GEM4D Beta is available free of charge from the [GEM4D web-page](#).
  - Previous newsletters are available from the [BasRock Facebook page](#).



#### What happens behind the scenes?

GEM4D automatically does the following tasks for you:

1. Identify the file as comma or TAB-delimited and load accordingly.
2. Test if the first line is a header line and use the data column names.
3. Use the selected column as the input for the iso-surface creation.
4. Do tests on the data file to determine if the format is correct, and provide feedback if problems are found.
5. When you check the iso-surface check box; GEM4D creates a regular grid, interpolates the values with inverse distance, and create the iso-surface triangulation within seconds.

#### Can I hide the points?:

Yes, hide the data points with the "Hide all" button.

#### Can I change the slider range?:

Yes, if you prefer other start and end values:

1. Change **"Mode"** from "Automatic" to "Manual" to manually change the start and end values.
2. Changing the **"Value start"** and **"Value end"** values to your preferred values.
3. Uncheck and recheck the **"Iso-surface on DataColumn"** check box to recreate the iso-surface.
4. Hide the data points with the **"Hide all"** button.

#### Can I change the iso-surface resolution?:

6. GEM4D inspects the data file and estimates the best interpolation search radius to use for the file. This can be changed with the second drop-down box below the slider.

Yes, you can change both the iso-surface resolution and interpolation search radius with the drop-down boxes below the slider. Play with combination of these two variables to get the best iso-surface for your specific data set.

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