

**SI-GRID**



**Strike Interpretive Gridding**

**Scott Hogg & Associates Ltd.**

**Geophysical Services**

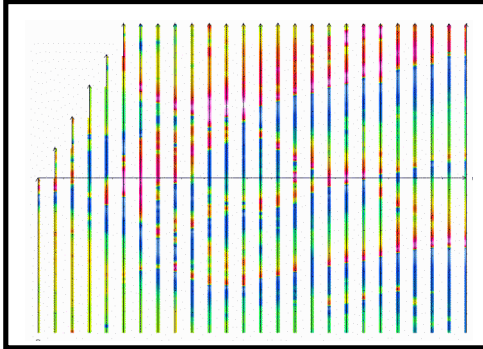
85 Curlew Drive, Suite 104

Toronto, Canada, M3A 2P8

www.shageophysics.com

Tel: (416) 444-8245 Fax: (416) 444-4409

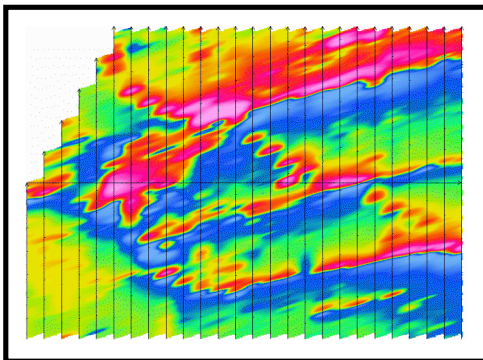
Strike-Interpretive Gridding, SI-GRID, is a new software tool that provides the geoscientist with a specialized, simple, interactive software program for the express purpose of building very high definition, coherent grids, from profile data. It is an efficient, easy to use routine that provides immediate confirmation of results, visually.



### Profile Data:

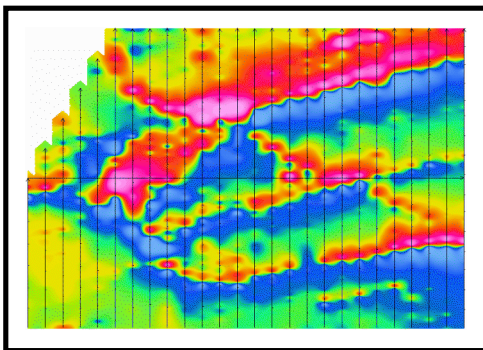
A geophysical map begins with detailed information along airborne or ground profiles. Approximately 80% of the map area is blank; unknown values to be predicted. How the blank space is filled determines the quality of the final map. The basic rules for interpolation are:

- A smooth transition from line to line
- No modification of the profile data



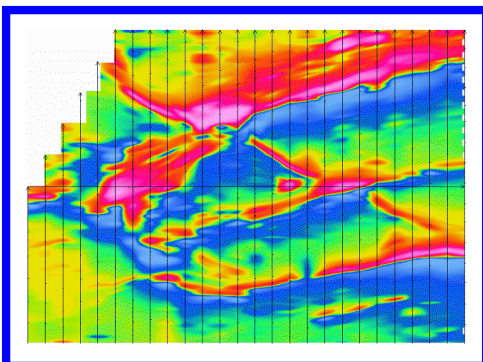
### Trend Enhanced Bi-Cubic Spline:

This interpolation method meets the basic interpolation requirements. Its limitation is that a single trend direction must be applied to the entire map. In this example SW/NE trends are reasonably presented but NW/SE trends are broken and distorted.



### Minimum Curvature:

This interpolation method can meet the basic interpolation requirements but can also be relaxed about the degree of fit to the profile data and thus smooth the result. Trend emphasis tends to be towards the closest points which are perpendicular to the line direction. In this example, a uniform but mediocre rendition of NW/SE and NE/SW trends results.



### SI-GRID:

This interpolation method meets all the basic interpolation requirements. Note how well the presentation renders anomaly detail for both NW/SE and NE/SW trend directions simultaneously.