Subject: Management of griddata around the borders of the data
Posted by Matt Harner on Tue, 05 Sep 2006 18:37:09 GMT
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> From what we can read, there is no way to manage border/missing data using a keyword in GRIDDATA. From what we can read, the only way to manage GRIDDATA around borders is to explicitly eliminate the border data from the input. From what we can read, the TRIANGULATE function has a B keyword that identifies the border pixels in some encoded fashion. 1) Do we assume that GRID_INPUT can take the B output from TRIANGULATE in the EXCLUDE keyword? 2) Will this fix the problem at the borders?

BTW the problem at the borders is that the GRIDDATA does a very bad job of interpolation on some of the edge values. It returns a value much larger or much smaller than the minimum or maximum of our original data.

We determined that this is a problem, by simply removing those very large or very small values. The remaining data looked more appropriate. We do not know about intermediate values which may also be incorrect. Hence we need a more systematic way of determining which data points to exclude.

3) What is a systematic way to determine which data points will be interpolated incorrectly and hence which data points to exclude from the GRIDDATA input?

So far, we have been using the linear interpolation option. We would prefer to use the cubic or bi-cubic interpolation.

4) Will the answer to the GRIDDATA problem also help with the other interpolation methods?