Subject: GRIDDATA ignoring MISSING keyword?
Posted by haffner on Thu, 27 Mar 2003 20:43:05 GMT
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We just recently moved from 5.4 to 5.6, and I was getting excited about putting TRIGRID (especially the buggy spherical gridding!) to rest. But, I'm having some trouble with IDL 5.6 using GRIDDATA and the MISSING keyword for data outside of the region containing irregular data.

Imagine that your irregular data resides in a concave surface, say an L-shaped region. Without any 'buffering', both TRIGRID and GRIDDATA cause 'streaking' between the vertical and horizontal sections that contain the irregular data as the routines try to interpolate between the sections. To get rid of the streaking, I use a buffering routine to create a boundary of fake data points outside of the real data region and set these to the MISSING value. When the routines interpolate between the segments then, they just fill the formerly streaked areas with the value MISSING. This works fine with both TRIGRID and GRIDDATA.

Outside of that transition region, with TRIGRID points are all set to MISSING. With GRIDDATA, they all seems to be set to 0, no matter what you pass in for MISSING.

Any ideas how to get around this?

mh