Subject: Re: GridData Conundrum
Posted by David Fanning on Mon, 19 Apr 2010 18:52:19 GMT
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Klemen writes:

> Hi David, I have no problems with GRIDDATA; take a look at the code.
> The only problem I had was the triangulate function - you might have
> problems with collinear points on the poles if you don't remove
> them).

I've discovered a couple more interesting facts about this process this morning. It turns out that it is mostly Triangulate that is giving me problems. I've found I do NOT have to exclude any values to produce the proper triangulation, and that the "co-linear" problem occurs on my Windows box, but not my Linux box. On Windows, setting the TOLERANCE keyword to 1 appears to solve the problem.

Also interesting is that there is a small gap (mostly camouflaged in my web article) where the longitude vector wraps around from 257.5 to 0 degrees. This is especially apparent in the filled contour method, and less apparent in the NSIDC regrid method. It appears to disappear completely in the GridData method, perhaps justifying my confidence in its power, if we can just learn to harness it. :-)

I'll update my web page article sometime soon. But managing to do this with GridData opens up a path I have been searching for for at least the last two years!

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thue. ("Perhaps thos speakest truth.")