
Subject: Re: Spherical gridding

Posted by [wmconnolley](#) on Wed, 18 Jun 2003 19:09:47 GMT

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Elias J. Hunter <hunter@imcs.rutgers.edu> wrote:

> I have a matrix of surface pressure north of 60N, that is currently on a
> gaussian lat-lon grid. My goal is to interpolate this grid to a one
> degree by one degree lat-lon grid. Now when I attempt this using
> sph_sct, the field south of 75 degrees lat looks good, the grid north of
> 75 degrees lat is a mess.

You (probably) don't want to use sph_scat. You're (probably) best off
regarding your input (and output) grids as rectangular orthogonal
(ie treat the process in lat-lon space).

If you must regrid using "physical" coordinates, I find that mapping the
data onto polar stereo coords (using convert_coord) then remapping in
device coords works well.

-W.

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Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself

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