
Subject: Re: Surface Problem

Posted by [Timm Weitkamp](#) on Tue, 08 Jun 2004 09:30:52 GMT

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On 07.06.04 at 07:22 -0700, Jeff Waksman wrote:

- > Hi, I have a huge amount of data that I'm working with and need to
- > plot and was hoping that someone could help me with.
- >
- > The data has three coordinates - radius, polar angle, and time. I
- > want to create a circular image and then to create an MPEG out of the
- > different frames (imagine a moving satellite picture of the Earth...).
- > I did this by using "POLAR_SURFACE" and interpolating between the
- > data points. However, the problem is that I can't get a smooth outer
- > circle. IDL is taking the points with the largest radius and
- > connecting the dots to create the outline of my surface. Thus, I end
- > up with jagged edges and a misshapen diagram. Does anyone know what I
- > can do to make the interpolation spread throughout a larger circle
- > that would encompass the entire previous shape? Any help would be
- > greatly appreciated.

If your data is regularly gridded in polar coordinates, then you might interpolate it onto a grid with finer angular spacing (with REBIN or CONGRID or INTERPOLATE or BILINEAR) before the POLAR_SURFACE operation.

Good luck,
Timm

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