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Subject: Re: lat/lon projection

Posted by [Kenneth P. Bowman](#) on Wed, 23 Mar 2011 14:23:12 GMT

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In article

<609aa0ff-fc2a-4e18-b37d-ea7993a2db4a@q40g2000prh.googlegroups.com>, nata <bernat.puigdomenech@gmail.com> wrote:

> Hi folks,  
>  
> Is there a way to convert a matrix of points on a certain lat/lon grid  
> to an another lat/lon grid ?  
> Right now, I am doing the projection taking the nearest neighbour  
> points but I would prefer some kind of interpolation.  
> I can not use MAP\_SET, MAP\_PATCH, etc because my final lat/lon grid is  
> not necessarily defined by one of the IDL projections.  
>  
> I don't know if TRIANGULATE or QHULL could help in this case. I don't  
> have any experience on this kind of things.....  
>  
> Any help is appreciated,  
> nata

If your original grid is regular or separable (longitude is only a function of x-index and latitude is only a function of y-index), it is an easy matter to interpolate. See the interpolation chapter in my book, which is available online

<http://idl.tamu.edu/idl/Book.html>

There is also an example in that chapter of how to use TRIGRID for an unstructured grid.

Ken Bowman

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