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Subject: Re: Map\_Image and interpolation  
Posted by [davidf](#) on Wed, 08 Dec 1999 08:00:00 GMT  
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Ben Tupper ([tupper@seadas.bigelow.org](mailto:tupper@seadas.bigelow.org)) writes:

> I have a set of ship positions (Lon/Lat in WGS 84 map datum). I also  
> have a bathymetric grid which I have warped into a tranverse mercator  
> projection (Datum = WGS 84). The ship locations plot correctly on the  
> warped image. Now I would like to interpolate values off of the warped  
> image between consecutive ship locations.

Uh, why?! Surely the ships (and the bathymetric grid) are in "real" space (as opposed to, say, "map" space) and the interpolation should be done there. Once you have the interpolated data, you just put it on the map coordinate system using PLOTS, or whatever you do. This is the beauty of the Map\_Set command: it sets up the mapping between your real coordinate system and the map coordinate system.

> So how do I go from Ship Lon/Lat to WarpedGrid[X,Y]?

Make your calculations in Lon/Lat space and then just \*place\* them on the Map, using the !Map system variable to handle any transformations for you.

Cheers,

David

P.S. I have a sneaking suspicion I have completely missed the point here. If so, I apologize profusely. :-)

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