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Subject: 3-d viz

Posted by [patrick](#) on Thu, 11 Jul 2002 23:43:52 GMT

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Folks-

This is a continuation of the note I sent about trying to create a volume visualization from three structure data arrays. With the help of a couple of more experienced programmers I decided that what I was trying to do was heading in the wrong direction. This is what I think I need to do but I'm not sure how to go about it without getting very tied up with multiple loops and function calls. I have three data arrays representing three different CTD profiles (oceanographer types will know what this is), the values are monotonically ascending or descending with depth depending on the field. For each value in a profile I need to interpolate to a similar value in an adjacent profile so there will be a surface of constant value. That's not all though, to create the volume, I need to interpolate between depth/altitude values as well so that the profiles are horizontally and vertically interpolated, and then visualized three dimensionally similar to a geological block diagram. I don't know if this makes much sense but it's what the PIs want. My idea is to somehow perform multiple calls to INTERPOL but I'm confused as to how to do this. Any suggestions?

Regards,

Patrick

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