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Subject: Re: matching 2 grids

Posted by [envi35@yahoo.ca](mailto:envi35@yahoo.ca) on Thu, 09 Mar 2006 01:01:32 GMT

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Hi Mark,

Thanks for your reply!

Sorry I'm not very clear about my problem. But it seems more complex than the one posted yesterday. They are 2-D arrays. I have 2 files for grid1: 600\*600 array for lat1, and 600\*600 array for lon1, one lat1/lon1 pair (same coordinate in the array) represents the true location on earth. So generally lat1 increase along a column, and also slightly different along a row. Same for lon1, increase along a row, slightly different along a column. I think grid1 was produced from polar stereographic projection, so that they are not equally spaced lat/lon pairs. grid2 is a polygon shaped subset of grid1, they are also one 2-d array for lat2 and one for lon2 (say 100\*120 with 0 filled in some places), but not exactly the same values as those in grid1, grid2 was defined in a different projection. What I want is to find the closest lat1/lon1 for each of the lat2/lon2 based on the geographic location the lat/lon represents.

I'll check the Motley library. I'd appreciate any further insights!

-Jenny

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