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Subject: Matching two arrays of Lat and Lon

Posted by [Meredith Pind](#) on Mon, 30 Jan 2012 20:31:32 GMT

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Hi everyone,

I have been struggling to match latitude and longitude data that I have extracted from MODIS hdf files (100646 points) with my in situ lat and lon file (118808 points) in order to compare the remotely sensed values to the in situ values.

I have tried to find where the lat and lon location between the two files are the same, but have come up with nothing (there is not a single line with exactly the same lat and lon). Is there a way to find where both the lat and lon position in the MODIS data matches the in situ lat and lon +/- 0.008 degrees (the closer the better)?

Thanks,

Meredith

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Subject: Re: Matching two arrays of Lat and Lon

Posted by [JDS](#) on Tue, 31 Jan 2012 23:08:50 GMT

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Yes... you look through the search data x2,y2 for the target data points x1,y1. You should do fine with the cos(mean(lat)) trick.

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