Subject: Re: Find pixel based on latitude/longitude.
Posted by David Fanning on Thu, 26 Jan 2012 03:37:46 GMT
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Daniel Otis writes:

> This is a very basic question, but I am struggling to find a good
> solution. I have image arrays and want to find a pixel and a line
> value based on a latitude and a longitude.
>
> For example, a global SST array is 2D (8640x4320). I have a 1D array
> of latitudes(4320) and 1D array of longitudes(8640). Based on depth
> and other considerations, I have a latitude value and a longitude
> value where I want to extract data and I need to find the closest
> pixel.
>
> I can't use a WHERE command because my desired lat/lon values don't
> exactly correspond to those in the lat/lon arrays. I just want to find
> the closest pixel in the 2D array based on the lat and lon that I
> provide.
>
> This seems simple, but I have not been able to find a good solution.
> Any ideas are appreciated. Thanks.

```
latindex = Value_Locate(lats, mylat)
lonindex = Value_Locate(lons, mylon)
valueIwant = image[lonindex, latindex]
```

Cheers,

David

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David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")