Subject: Q: Lat/Lon to gridpoint interpolation
Posted by Liam Gumley on Mon, 24 Apr 1995 07:00:00 GMT
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Hey folks,

I have two arrays, one is latitude and the other longitude. These lat/lons correspond to satellite sensor fields-of-view on the earth surface, and are irregularly spaced. I am trying to come up with a method of finding the array indices closest to a given lat/lon, without having to do a search of the lat/lon arrays. This is so that I can lay a coastline over an un-resampled satellite image. I have already found a couple of ways to do it by array searching, and it's a bit cumbersome.

I can't figure out how to do it using a simple fitting algorithm. What I want to do is this:

lat is an x by y real array
lon is an x by y real array

I want to find the fractional x, y corresponding to a given lat, lon.

Any suggestions?