Subject: Interpolating on two variables
Posted by mankoff on Sun, 06 Feb 2011 00:35:58 GMT
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Hi Group,

I'm comfortable interpolating a variable from one vector to another, but I've come across a slightly more complicated case and am seeking advice.

I have two variables on a flight path. I have lat1, lon1, var1, and lat2, lon2, var2. var1 and var2 are sampled on the same track, but at different rates and locations, and no elements in lat1 are ever exactly equal to any elements in lat2.

Currently I take the higher frequency sample rate, convert to distance_along_track, repeat for the other variable, then find the nearest element, etc... then convert back to lat/lon.

I could also leave things in lat/lon coords, and for each element in var1, find all var2s within a few 10s of m, do a geo-spatial weighted average, etc.

Is there some other technique I'm missing to easily get var1, lat1, and lon1 easily comparable to var2, lat2, and lon2?

Thanks,

-k.