Subject: interpolation help required
Posted by sheppard on Thu, 12 Jun 1997 07:00:00 GMT

Hi all,

I'm trying to write a program for IDL to interpolate grid points. My original
dataset contains "spikes" in the data, so I don't want to use polynomial
interpolations as this produces instabilities in the interpolated field. Any
other form of interpolation would be fine though. I'm currently trying to use
the BILINEAR function. My input dataset contains 288 longitudes (1.25 degs.)
by 217 latitudes (0.83 deg.). I want to interpolate this to 320 longitudes
(1.125 deg.) by 160 latitudes (gaussian grid at about 1.125 deg.). I seems to
constantly get the error message "Coordinate arrays must have same length
if Grid not set". I haven't come across this error before, and find help less
than helpful. Can anyone explain the meaning of this to me? Also, if
someone has already tackled a similar problem, I'd be EXTREMELY greatful if
you could send me a copy of the program with a brief explanation (if
necessary). My email address is:

    sheppard@geo.umnw.ethz.ch

Thanks in advance,

Rae