Subject: contouring data over a map
Posted by twh18 on Thu, 08 Jun 2006 21:14:58 GMT
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Hello,

I am trying to contour a data set in the form of [lat lon value] onto a
map. I have no problems plotting individual data locations, or
contouring the data set without the map. I have tried to contour the
data set on the map first using the overplot keyword with contour, then
using sph_scat. Both methods fail, saying only "TRIANGULATE: spherical
triangulation failed".

I can successfully contour a set of 999 randomly generated points onto
my map. When I increase to 1000 random points, it says "TRI-GRID:
points are co-linear, no solution". Increasing to 75000 points (the
size of my data set) returns "TRIANGULATE: spherical triangulation
failed" again.

There are several posts that hint at similar issues from around ten
years ago, but I hvaen't found anything that talks about my problem
specifically. Is there a (very small) upper limit on the number of
points triangulate can handle? I'm an IDL newby and I would appreciate
any advice very much.

Thanks,
Tim