Subject: Spherical triangulation does not work for this data
Posted by Carsten Lemmen on Tue, 23 Jul 2002 07:50:55 GMT
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Hi all,

I am trying to put irregularly spaced geo data onto a grid. Doesn't seem to work with the test data below, at least not in spherical gridding mode. The range of values is spread massively, cmp. original data with results. This is what I get

```
IDL> print,min(data,max=md),md
       2.01690      3.04770
IDL> print,min(result,max=mr),mr
      -35.4423      14.1332
```

How can that happen? Help very much appreciated

Carsten

```
.....................................................
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Paste this into your idl comand line
; This is some test data (part of an actual ozone data set):
data = [2.4373,  2.7141,  2.3265,  2.8369,  2.7715,  2.3347,  2.3997,  $
        2.0169,  3.0362,  2.7579,  2.8260,  2.1901,  3.0477,  2.8023]
lat  = [40.9423, 43.8911, 43.3905, 46.0351, 47.9382, 49.0647, 48.9252, $
        52.8167, 52.0945, 55.3319, 56.3629, 58.4239, 59.8312, 59.0832]
lon  = [94.3195, 82.7758, 91.3826, 87.9544, 80.6488, 81.2267, 85.4324, $
        83.4327, 84.4105, 84.7905, 85.4792, 86.5243, 87.5318, 97.5873]
limits  = [80.00, 40.00,100.00, 60.00]
spacing = [2.0,2.0]

; Do a spherical triangulation:
triangulate,lon,lat,tr,/degree,sphere=sphere,fvalue=data
result=trigrid(data,spacing,limits,sphere=sphere,/degree, $
               xgrid=gx,ygrid=gy)

; look at the data / result:
print,min(data,max=md),md
print,min(result,max=mr),mr

; end of test script
.....................................................
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
```