
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  
.....  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```
