
Subject: About Triangulate

Posted by [qunjie0111](#) on Fri, 08 Feb 2008 08:44:13 GMT

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HALLO:

I wanted to interpolate the irregularly data (satellite data) to regularly_gridded data, and used TRIANGULATE and TRIGRID function, but after run the .pro, there was a problem:

Attempt to store into an expression: <FLOAT Array[912]>.

Execution halted at: HALOE_TRIGRID 176 E:\haloe\haloe_trigrid.pro
\$MAIN\$

MY CODE:

```
fidr=ncdf_open('h:\haloe\HALOE_Version19_sr_2004_03.nc')
```

```
varid=ncdf_varid(fidr,'latitude')
```

```
ncdf_varget,fidr,varid,lat
```

```
varid=ncdf_varid(fidr,'longitude')
```

```
ncdf_varget,fidr,varid,lon
```

```
varid=ncdf_varid(fids,'theta')
```

```
ncdf_varget,fidr,varid,theta
```

```
ncdf_close,fidr
```

```
index_theta=where(theta[0,*] ne 1.00000e+024)
```

```
TRIANGULATE, lon[0,index_theta], lat[0,index_theta],
```

```
Tri,sphere=s,fvalue=f,/degrees
```

```
grid_data = trigrid(f,[2.5,2.5],[0,-80,357.5,80],sphere=s,/degrees)
```

```
.  
.
.
```

What's the problem? Please help me!

thanks!

Subject: Re: About Triangulate

Posted by [wgallery](#) on Fri, 08 Feb 2008 17:18:53 GMT

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On Feb 8, 3:44 am, qunjie0...@163.com wrote:

> HALLO:

> I wanted to interpolate the irregularly data (satellite data) to

> regularly_gridded data, and used TRIANGULATE and TRIGRID function, but

> after run the .pro, there was a problem:

>

> Attempt to store into an expression: <FLOAT Array[912]>.

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> \$MAIN\$

```

> MY CODE:
> fidr=ncdf_open('h:\haloe\HALOE_Version19_sr_2004_03.nc')
> varid=ncdf_varid(fidr,'latitude')
> ncdf_varget,fidr,varid,lat
>
> varid=ncdf_varid(fidr,'longitude')
> ncdf_varget,fidr,varid,lon
>
> varid= ncdf_varid(fids,'theta')
> ncdf_varget,fidr,varid,theta
> ncdf_close,fidr
>
> index_theta=where(theta[0,*] ne 1.00000e+024)
> TRIANGULATE, lon[0,index_theta], lat[0,index_theta],
> Tri,sphere=s,fvalue=f,/degrees
> grid_data = trigrid(f,[2.5,2.5],[0,-80,357.5,80],sphere=s,/degrees)
> .
> .
> .
> What's the problem? Please help me!
> thanks!

```

When executing the procedure:

Triangulate, x, y
the x and y parameters are rearranged (reordered.) Therefore, x and y
must be named variables (not expressions as you have). Try:

```

x = lon[0,index_theta]
y = lat[0,index_theta]
TRIANGULATE, x, y,
Tri,sphere=s,fvalue=f,/degrees

```

Good luck,

Bill Gallery
