
Subject: Re: how to use MIN_CURVE_SURF when CONTOUR

Posted by [Jean H.](#) on Mon, 17 Sep 2007 15:48:43 GMT

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qunjie0111@163.com wrote:

```
> hello!
> my data is data(144,73).
> longitude: lon = indgen(144)*2.5
> latitude: lat = indgen(73)*2.5-90.
> Before I CONTOUR it,I want to smooth the data ,using the function
> MIN_CURVE_SURF.MY code is:
>
> smoothdata=MIN_CURVE_SURF(data,xvalues=lon,yvalues =lat,gs= , $
> [1.0,1.0],bounds=[0,-90,359,90],/sphere,/TPS)
```

You have a problem here..

```
gs= , $
[1.0,1.0]
```

you have a useless comma... so basically, gs is nothing, and maybe it is the source of your problem..

Jean

```
>
> But , after runing ,there are some errors :
>
> Attempt to subscript P3 with J is out of range.
> Error occurred at: MIN_CURVE_SURF 310 D:\RS\IDL63\lib
> \min_curve_surf.pro
> ZONAL_MEAN_DATA 45 E:\DATA\ECMWF\zonal_mean_data.pro
> $MAIN$
> Execution halted at: ZONAL_MEAN_DATA 45 E:\DATA\ECMWF
> \zonal_mean_data.pro
> Program caused arithmetic error: Floating illegal operand
>
> I don't know how to correct them , please help me! thanks!
> zuoqunjie
>
```

Subject: Re: how to use MIN_CURVE_SURF when CONTOUR

Posted by [qunjie0111](#) on Tue, 18 Sep 2007 12:56:13 GMT

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Thanks Jean H.

```
smoothdata=MIN_CURVE_SURF(data,xvalues=lon,yvalues=lat,gs=[1
.0,1.0],bounds=[0,-90,359,90],/
sphere)
```

I changed them in this way, but the errors remain!

Thanks again for answering my question!

Subject: Re: how to use MIN_CURVE_SURF when CONTOUR
Posted by [Tal](#) on Tue, 25 Sep 2007 08:17:07 GMT
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Hi Zuoqunjie,

I tried different combinations of this routine with your data.
no success.

however, this could be a bug at the min_curve_surf.pro in the lib
subdirectory of the IDL distribution (see line 310).

This looks to me as the source of the problem as far as i understand,
but does not make much sense. Maybe playing with xgrid, ygrid instead
of xvalues,yvalues will help.

When all else fails try also the ENVI support team
(support@ittvis.com).
I'll be happy to know what the answer was.

Good luck,
Tal

Subject: Re: how to use MIN_CURVE_SURF when CONTOUR
Posted by [qunjie0111](#) on Wed, 26 Sep 2007 01:44:48 GMT
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Thanks Tal

I tried it in your way: using xgrid, ygrid .

But the errors are all the same!

Gloomy! I have no choice but to use the SMOOTH function. I hope the

IDL team can solve this problem as soon as possible!

Thanks Tal again for answering my question!
