
Subject: Re: Using contour procedure to extract specific regions

Posted by [S. Murray](#) on Wed, 28 Jul 2010 11:52:22 GMT

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On Jul 28, 12:41 pm, "S. Murray" <murray_sop...@hotmail.com> wrote:

> I have a data array of an inclination angle, ranging from 0 to
> 180degrees, which when I plot an image of it shows about 3 specific
> regions that are greater than 130degrees. They basically look like
> 'blobs' on the image map. I need to specifically analyse one of the
> '130degree contour' blobs, not every single region picked out by
> simply contouring at level = 130. I will be analysing this specific
> location, taking averages, min, max, etc, in order to track it's
> changes over several different scans (I'm just looking at the first
> one for the moment). Also will need to plot images of it contoured on
> it's own on the map, rather than having everything else contoured as
> well. I am becoming very confused about how to go about it!

>
> First I thought I would try to look at it with all areas above
> 130degrees, and if that worked I could move onto more specific
> locations:

>
> thresh= data GE 130
> pmm,data*(thresh)
> 0.00000 174.172
>

> So, the result goes from 0 to 174, including the now '0' value area
> and that would be useless if I want to average the specific regions.
> So I abandoned this route.

>
Actaully, I just realised what I was doing wrong here (quite obvious
now I see). If I just 'pmm,data > 130' that'll show me the values. But
I am still unaware how to extract a region with the contouring
below...

> Then, I was reading this page:http://www.dfanning.com/map_tips/contoshape.html
> , and from that gathered that my first 'step' should be:

>
> contour, data,level=130,PATH_INFO=info, PATH_XY=xy, XSTYLE=1,
> YSTYLE=1,/PATH_DATA_COORDS
>

> But, after reading the 'contour.pro' explanation on the IDL webpage, I
> still dont understand exactly what is contained within path_info etc
> to know what to do next! How do I create image plots with these
> outputs like the one on the webpage?

>
> Basically, I need to figure out how do I use this information to
> 'segment' my data, and thus can plot a new image with just this region
> and also analyse it, but I'm stumped at this point and not sure which

> direction to take. What would be my next step in this process? Any
> help would be greatly appreciated, I've been staring at this for too
> long now!

Subject: Re: Using contour procedure to extract specific regions

Posted by [David Fanning](#) on Wed, 28 Jul 2010 12:29:45 GMT

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S. Murray writes:

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> to know what to do next! How do I create image plots with these
> outputs like the one on the webpage?

I think I would take a different approach. Here are
a couple of articles that describe how I handled
a very similar problem in "blob analysis" and the
programs I wrote to do the job:

http://www.dfanning.com/ip_tips/boundary.html
http://www.dfanning.com/ip_tips/blobanalysis.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Using contour procedure to extract specific regions

Posted by [S. Murray](#) on Wed, 28 Jul 2010 16:21:05 GMT

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On Jul 28, 1:29 pm, David Fanning <n...@dfanning.com> wrote:

> S. Murray writes:

>> Then, I was reading this page:http://www.dfanning.com/map_tips/contoshape.html

>> , and from that gathered that my first 'step' should be:

>

>> contour, data, level=130, PATH_INFO=info, PATH_XY=xy, XSTYLE=1,

>> YSTYLE=1, /PATH_DATA_COORDS

>

>> But, after reading the 'contour.pro' explanation on the IDL webpage, I

>> still don't understand exactly what is contained within path_info etc

>> to know what to do next! How do I create image plots with these

>> outputs like the one on the webpage?

>

> I think I would take a different approach. Here are

> a couple of articles that describe how I handled

> a very similar problem in "blob analysis" and the

> programs I wrote to do the job:

>

> http://www.dfanning.com/ip_tips/boundary.html

> http://www.dfanning.com/ip_tips/blobanalysis.html

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks very much for that, a much more understandable method! Works perfectly.

For future searchers, I created a mask and then ran 'blob_analyser' on my image. Then just selected which 'blob' I wanted using 'GetStats' and plotting the stats.perimeter_pts arrays using 'plots'.
