Subject: Using contour procedure to extract specific regions
Posted by S. Murray on Wed, 28 Jul 2010 11:41:19 GMT
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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.

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!