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Subject: Re: How can I find the central pixel?

Posted by [David Fanning](#) on Fri, 10 Mar 2006 21:47:07 GMT

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Julio writes:

> 'm studying a way to get some lat/longs from an image...  
>  
> I have a very large array (a binary-classified landsat image), where  
> the pixels with the value '1' are soybean fields and the zero  
> values represent no soybean.  
>  
> In this image there are large fields and small soybean fields. A  
> 'large field' means a group of 50 or more soybean pixels. I have no  
> interest on small fields. But I need to know the lat/long of the center  
> of the larger soybean fields. In other words, I need a way to find the  
> central pixel of the larger fields...  
>  
> Please, if you have an idea or a tip, comment this topic!

I'd use Label\_Region to find the soybean fields. Be sure you expand your image by a single pixel border if any of the fields touch the edge, since Label\_Region doesn't handle edges well.

One by one, go through the fields. You can easily discard any that are "too small" to be bothered with. If they are of the proper size, you can use something like Find\_Boundary to located the boundary. At the same time it will calculate the center, area, and the perimeter for you. Just set the appropriate keywords. You can find Find\_Boundary here:

[http://www.dfanning.com/programs/find\\_boundary.pro](http://www.dfanning.com/programs/find_boundary.pro)

Cheers,

David

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

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