
Subject: Re: IDL function to get area cover of polygon
Posted by [penteado](#) on Tue, 02 Nov 2010 23:55:51 GMT
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On Nov 2, 9:44 pm, Seb <g5s...@web.de> wrote:

> Hi,
>
> I have the longitude/latitude coordinates of a polygon, and I am
> looking for a function which calculates the area covered by the
> polygon (e.g. in km²). I am sure there is a function like this but
> was unable to find it.
>
> Any advice is much appreciated.
>
> Cheers,
> Sebastian

If the polygon is small enough to make the surface curvature negligible, you can convert lat/lon to x/y, and use `poly_area()` or an `IDLanROI`.

Subject: Re: IDL function to get area cover of polygon
Posted by [Seb](#) on Wed, 03 Nov 2010 09:50:16 GMT
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On Nov 2, 11:55 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Nov 2, 9:44 pm, Seb <g5s...@web.de> wrote:
>
>> Hi,
>
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>> looking for a function which calculates the area covered by the
>> polygon (e.g. in km²). I am sure there is a function like this but
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>> Any advice is much appreciated.
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>> Cheers,
>> Sebastian
>
> If the polygon is small enough to make the surface curvature
> negligible, you can convert lat/lon to x/y, and use `poly_area()` or an
> `IDLanROI`.

Thanks, I will give it a try.
Sebastian

Subject: Re: IDL function to get area cover of polygon

Posted by [JDS](#) on Thu, 04 Nov 2010 00:06:25 GMT

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On Nov 2, 7:44 pm, Seb <g5s...@web.de> wrote:

> Hi,

>

> I have the longitude/latitude coordinates of a polygon, and I am

> looking for a function which calculates the area covered by the

> polygon (e.g. in km²). I am sure there is a function like this but

> was unable to find it.

>

> Any advice is much appreciated.

I have a function which computes the solid angle of a spherical polygon in steradians, given ra/dec input:

http://tir.astro.utoledo.edu/idl/spherical_poly_area.pro

JD
