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 km^2). I am sure there is a function like this but

> was unable to find it.

> Any advice is much appreciated.
```

> Cheers.

Sebastian

> 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 View Forum Message <> Reply to Message

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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,
>> 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 km^2). 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.
Thanks, I will give it a try.
```

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 km^2). 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