
Subject: Re: satellite field of view pole projection
Posted by [penteado](#) on Fri, 24 Jun 2016 01:21:02 GMT
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The functionality to handle overlapping polygons, keeping track of everything that falls on each point in the map, so that one can decide on how to combine these values (take a mean, remove outliers, choose the stacking order, etc.) was lurking in `pp_drawsphericalpoly`, but because I had not decided on the algorithm and API, I had not documented it. I made some changes when I used it last week, and now I added some documentation, including some examples, of how to handle that (most relevant keywords are `do_stack`, `stackmap` and `stackcount`). I will probably add some alternative algorithms in the future, which would be chosen using other values for the keyword `do_stack` (at this time the only usable one is `do_stack=1`).

On Thursday, June 2, 2016 at 11:27:20 PM UTC-7, [audrey.sch...@gmail.com](#) wrote:

> thank you, that looks exactly like what I want to plot, but unfortunately I seem to already fail a step earlier in the process if I use your approach.
>
> In your example you have a certain number of field-of-views you want to plot, which are not overlapping. In my question I was only talking about one orbit, and in that case your solution would work well.
>
> But I actually have hundreds of orbits, where the fields-of-view overlap. I would like to average these measurements before I plot them. I am not sure how this actually influences the mapping process...
>
> So far (for the equatorial region) I have simply been adding up the counts in one array, and have been creating a second array where I sum up the 'exposure' (how many times a surface element was seen). I then divided the first array by the second, the result of which I plotted.
>
> If I wanted to use your approach, I would like to make use of the part where I determine what region a rectangle covers, but would then need to somehow be able to further process the result, and not directly plot it.
>
> Any ideas?
>
> best,
> Audrey
