
Subject: Re: MAP_CONTINENTS with MAP_PROJ_INIT created !Map
Posted by [David Fanning](#) on Wed, 19 Nov 2008 16:41:28 GMT
[View Forum Message](#) <> [Reply to Message](#)

mike.otecka@gmail.com writes:

```
> Here's what I know how to do w.r.t. mapping continents onto an image
> (i.e. using MAP_SET):
>
> IDL> window,/f,xs=<xdim>,ys=<ydim>
> IDL> map_set,ctrlat,ctrlon,/projection_name,/noborder,/horiz, $
>           xmargin=[0,0],ymargin=[0,0],limit=
> [latmin,lonmin,latmax,lonmax]
> IDL> tv, image
> IDL> map_continents
>
>
>
> Is there a way to do this using MAP_PROJ_INIT to create my !Map
> variable rather than MAP_SET?
> Here's what I've got so far:
>
> IDL> map = map_proj_init(projection_name, $
>           limit=[latmin,lonmin,latmax,lonmax], $
>           center_latitude =ctrlat, $
>           center_longitude=ctrlon,
> $
>           /GCTP)
>
> (Yeah, I know, not much.)
>
> According to IDL Help, MAP_PROJ_FORWARD or MAP_PROJ_INVERSE need to
> come into play but I don't really see how.
```

Oh, dear.

Well, I assume from this sketchy portrait that you have an image that is already in a map projection, and you wish to associate a map data coordinate system with it. Is that correct?

If so, you may be interested in this article, which will explain how I use the MAP_PROJ* routines to do that:

http://www.dfanning.com/map_tips/precipmap.html

Of course, the method outlined in that article is not *exactly* right, but it does point you (at the end of the article) to the exact right solution. This is all going to be quite a bit more

complicated than what you are used to. Hope you are up for it. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: MAP_CONTINENTS with MAP_PROJ_INIT created !Map

Posted by [mike.otepka](#) on Wed, 19 Nov 2008 16:59:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

> Well, I assume from this sketchy portrait that you have an image
> that is already in a map projection, and you wish to associate
> a map data coordinate system with it. Is that correct?

Yes, that's basically it. Some of my images don't give any clue as to where the land/water is, so I was simply wanting to map the continents as a reference.

> Of course, the method outlined in that article is not *exactly*
> right, but it does point you (at the end of the article) to the
> exact right solution. This is all going to be quite a bit more
> complicated than what you are used to. Hope you are up for it. :-)

I was afraid you were going to say that. Fairly certain I've read this article before, so hopefully I just need to give it another read and things will actually make sense this time around. ;)

Thanks, David.

-Mike

Subject: Re: MAP_CONTINENTS with MAP_PROJ_INIT created !Map

Posted by [David Fanning](#) on Wed, 19 Nov 2008 17:17:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

mike.otepka@gmail.com writes:

> I was afraid you were going to say that. Fairly certain I've read
> this article before, so hopefully I just need to give it another read
> and things will actually make sense this time around. ;)

Yeah, clear instructions are hard to come by, apparently. :-)

If you want land/water separation, and you can get your map projection parameters set appropriately, I'd have a look at this article for the mapping:

http://www.dfanning.com/map_tips/gshhs.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
