Subject: how to make a map project in envi Posted by stin.wang on Wed, 07 Jan 2009 08:01:17 GMT

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i have there data(latitude, lontitude, and land surface temperature) how to make it into a envi file(*.img) with map project(albers)

Subject: Re: how to make a map project in envi Posted by David Fanning on Wed, 07 Jan 2009 17:55:11 GMT View Forum Message <> Reply to Message

stin.wang@gmail.com writes:

- i have there data(latitude,lontitude,and land surface temperature)
- > how to make it into a envi file(*.img) with map project(albers)

Well, I think the easiest thing to do would be to make a GeoTIFF image that you could easily read into ENVI. You will have to project your data to create the projected image. If you are familiar with the MAP_PROJ_*** routines, I would use those. Otherwise, you might get away with MAP PATCH.

You can probably get a start on how to fill out the GeoTiff structure (for this you *will* have to learn how to use the MAP_PROJ_*** routines) by having a look at this article, which uses an Albers map projection:

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

This process is not for the faint of heart, unless someone knows an easier method in ENVI. (I which case, I am all ears, too.)

Cheers,

David

--

David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: how to make a map project in envi Posted by stin.wang on Thu, 08 Jan 2009 15:08:59 GMT View Forum Message <> Reply to Message

- > stin.w...@gmail.com writes: >> i have there data(latitude,lontitude,and land surface temperature) >> how to make it into a envi file(*.img) with map project(albers) > Well, I think the easiest thing to do would be to make a > GeoTIFF image that you could easily read into ENVI. You will > have to project your data to create the projected image. > If you are familiar with the MAP_PROJ_*** routines, I would > use those. Otherwise, you might get away with MAP PATCH. > > You can probably get a start on how to fill out the > GeoTiff structure (for this you *will* have to learn > how to use the MAP_PROJ_*** routines) by having a look > at this article, which uses an Albers map projection: > http://www.dfanning.com/map_tips/tiffoverlay.html > > This process is not for the faint of heart, unless > someone knows an easier method in ENVI. (I which case, > I am all ears, too.) > > Cheers. > David > > David Fanning, Ph.D.
- my data format is HDF5, in which latitude ,lontitude,and lst were

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i think there must be some easier way to get my work done, but before i get some idea about that , i will read your advice first. thanks for your help.

Subject: Re: how to make a map project in envi Posted by Jean H. on Thu, 08 Jan 2009 15:29:31 GMT View Forum Message <> Reply to Message

```
stin.wang@gmail.com wrote:
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consisted.

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<n...@dfanning.com> wrote:
>> stin.w...@gmail.com writes:
>>> i have there data( latitude,lontitude,and land surface temperature )
>>> how to make it into a envi file(*.img) with map project(albers)
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- >> Well, I think the easiest thing to do would be to make a
- >> GeoTIFF image that you could easily read into ENVI. You will
- >> have to project your data to create the projected image.
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- >> use those. Otherwise, you might get away with MAP_PATCH.

>>

- >> You can probably get a start on how to fill out the
- >> GeoTiff structure (for this you *will* have to learn
- >> how to use the MAP_PROJ_*** routines) by having a look
- >> at this article, which uses an Albers map projection:

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>>

- >> This process is not for the faint of heart, unless
- >> someone knows an easier method in ENVI. (I which case,
- >> I am all ears, too.)

>>

>> Cheers,

>>

>> David

>>

- >> --
- >> David Fanning, Ph.D.
- >> Coyote's Guide to IDL Programming (www.dfanning.com)
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>

- > my data format is HDF5, in which latitude ,lontitude,and lst were
- > consisted.
- > i think there must be some easier way to get my work done, but before i
- > get some idea about that , i will read your advice first.
- > thanks for your help.

Hi,

not sure if it is exactly what you are looking for, but I found that writing the header file (for envi files) directly is the easiest way...

Jean

Subject: Re: how to make a map project in envi Posted by David Fanning on Thu, 08 Jan 2009 15:58:18 GMT View Forum Message <> Reply to Message

Jean H. writes:

- > not sure if it is exactly what you are looking for, but I found that
- > writing the header file (for envi files) directly is the easiest way...

Perhaps you could outline how to get continental boundaries on an image in ENVI. I've read the documentation on how to do it, and I've tried it. But it takes nearly three minutes to put boundaries on with the GSHHS shoreline dataset (this is nearly instantaneous with IDL), so I'm certain I am not doing it correctly.

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: how to make a map project in envi Posted by Wasit.Weather on Thu, 08 Jan 2009 18:03:52 GMT View Forum Message <> Reply to Message

On Jan 8, 9:58 am, David Fanning <n...@dfanning.com> wrote:

- > Jean H. writes:
- >> not sure if it is exactly what you are looking for, but I found that
- >> writing the header file (for envi files) directly is the easiest way...

>

- > Perhaps you could outline how to get continental boundaries
- > on an image in ENVI. I've read the documentation on how to
- > do it, and I've tried it. But it takes nearly three minutes
- > to put boundaries on with the GSHHS shoreline dataset
- > (this is nearly instantaneous with IDL), so I'm certain
- > I am not doing it correctly.

>

> 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.")

If it is MODIS data, the easiest way to do it MODIS conversion Tooklit (MCTK).

You can download it here: http://www.ittvis.com/Downloads/toolkits.aspx You can run it in batch or in a single mode. MCTK converts your data into Geographic coordinate system, then you can play with it whatever

Good luck

Subject: Re: how to make a map project in envi Posted by David Fanning on Thu, 08 Jan 2009 19:16:39 GMT View Forum Message <> Reply to Message

Elkunn writes:

- > If it is MODIS data, the easiest way to do it MODIS conversion Tooklit
- > (MCTK).
- > You can download it here: http://www.ittvis.com/Downloads/toolkits.aspx
- > You can run it in batch or in a single mode. MCTK converts your data
- > into Geographic coordinate system, then you can play with it whatever
- > you want to convert.

Yes, I am not making myself clear. It is, in fact, MODIS data I'm trying to display continental outlines on. I *have* converted the swath data to a projected data set, I *can* open the file in ENVI, it *is* georeferenced. It just takes me minutes to display the data with outlines. I'm looking for a fast way to do that. :-)

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com) Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: how to make a map project in envi Posted by jeffnettles4870 on Thu, 08 Jan 2009 19:59:43 GMT View Forum Message <> Reply to Message

On Jan 8, 2:16 pm, David Fanning <n...@dfanning.com> wrote:

- > Elkunn writes:
- >> If it is MODIS data, the easiest way to do it MODIS conversion Tooklit
- >> (MCTK).
- >> You can download it here:http://www.ittvis.com/Downloads/toolkits.aspx
- >> You can run it in batch or in a single mode. MCTK converts your data
- >> into Geographic coordinate system, then you can play with it whatever
- >> you want to convert.

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>
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- > on. I *have* converted the swath data to a projected
- > data set, I *can* open the file in ENVI, it *is*
- > georeferenced. It just takes me minutes to display
- > the data with outlines. I'm looking for a fast way
- > to do that. :-)

> Cheers,

>

- > David
- > David Fanning, Ph.D.
- > Coyote's Guide to IDL Programming (www.dfanning.com)
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I'm trying out a few ideas, i'll let you know what i come up with (if anything).

Jeff