
Subject: ENVI File Question

Posted by [David Fanning](#) on Wed, 12 Sep 2007 20:43:18 GMT

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

Folks,

I have an ENVI file question. I just want to open a Geotiff file, do some small amount of processing on it, and save it as an image file ENVI can read. This seems about as straightforward as it can be.

I found an ENVI procedure named ENVI_SETUP_HEAD that looks like what I need to create the ENVI header for this very simple file. My program runs, my ENVI_SETUP_HEAD command gets called. All appears well, but the header file never gets created. (Or at least it doesn't get created in the same place as my image file!)

Here is the output from my program:

```
Image Filename: /home/fanning/b2.img
ENVI Header Filename: /home/fanning/b2.img.hdr
```

The image file is there. The header file is not.

Do I have to do something else to write the header?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: ENVI File Question

Posted by [David Fanning](#) on Thu, 13 Sep 2007 16:15:57 GMT

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

David Fanning writes:

> Sorry for all the ENVI questions, but the documentation is
> wonderful in that it leaves so much for the imagination to
> fill out. :-)

Oh, forget it. I'm not asking anymore ENVI questions.

(Well, that's not true, since asking the questions reveals the answer--usually something dumb I've done--in the shortest amount of time. But it would serve my purpose just as much to send these questions to alt.sex.fetish instead of bothering you good people.)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: ENVI File Question

Posted by Paul.Bowyer@gmail.com on Thu, 13 Sep 2007 16:57:10 GMT

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

On Sep 13, 5:15 pm, David Fanning <da...@dfanning.com> wrote:

> David Fanning writes:

>> Sorry for all the ENVI questions, but the documentation is

>> wonderful in that it leaves so much for the imagination to

>> fill out. :-)

>

> Oh, forget it. I'm not asking anymore ENVI questions.

>

> (Well, that's not true, since asking the questions reveals

> the answer--usually something dumb I've done--in the shortest

> amount of time. But it would serve my purpose just as much

> to send these questions to alt.sex.fetish instead of bothering

> you good people.)

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

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

Hi David,

Couple of suggestions. Do you hard code the header filename into your program?

1.You list the header file as

ENVI Header Filename: /home/fanning/b2.img.hdr

Normally, `envi_write_envi_file`, will create a header file which has the same stem filename as the `.img` file, but substitutes the `.img` extension for `.hdr`, so that your header file would be `b2.hdr` not `b2.img.hdr`. Perhaps this is enough to confuse ENVI, and result in you not seeing the map info displayed, because it is looking for a file it can't find.

2. The difference between `ENVI_SELECT` and `ENVI_PICKFILE`, not updating the available bands list, I can't explain exactly, but just for info, there is a `/NO_OPEN` keyword that may be set in `ENVI_WRITE_ENVI_FILE`, so I would guess that this was why you get the different results, one uses it the other doesn't?

3. Do you really need to be writing ENVI images, ENVI can perfectly well handle GeoTIFFs?

Subject: Re: ENVI File Question

Posted by [David Fanning](#) on Thu, 13 Sep 2007 17:17:23 GMT

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

Paul.Bowyer@gmail.com writes:

> 3. Do you really need to be writing ENVI images, ENVI can perfectly
> well handle GeoTIFFs?

I'm mostly fooling around, trying to understand how all this works. But I wrote a much better Landsat destriping algorithm than the one that is in ENVI, and I wanted to see if I could add it to ENVI via a menu selection. I just got it to work!

Really quite simple once I had a feel for how things are done. I'm becoming a big fan of ENVI, especially now that I can add my own code to it. I see my career taking off again! :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: ENVI File Question

Posted by [Jean H.](#) on Thu, 13 Sep 2007 19:00:22 GMT

> *Normally*, `envi_write_envi_file`, will create a header file which has
> the same stem filename as the `.img` file, but substitutes the `.img`
> extension for `.hdr`, so that your header file would be `b2.hdr` not
> `b2.img.hdr`. Perhaps this is enough to confuse ENVI, and result in you
> not seeing the map info displayed, because it is looking for a file it
> can't find.

it shouldn't be a problem...

indeed, in my code, with no change (I guess I must have changed something, otherwise it would be VERY disturbing), it started to write "data.dat.hdr", while it wasn't before... anyways, I can still open and properly display the map info in envi!

Jean
