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Subject: Re: SMI/HDF format?

Posted by [Bruce Bowler](#) on Tue, 13 Jul 2010 12:08:53 GMT

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On Tue, 13 Jul 2010 04:13:27 -0700, Dave Poreh set fingers to keyboard and typed:

- > Folks
- > Does anyone know what is SMI/HDF format? I have some images and I can
- > read by nCDF\_Browser, file, but when I open it is giving me an
- > array(8640,4320) without any coordinates. But what I want is having data
- > in (lon,lat,C) format. If this is for entire glob, how can I do this?
- > Any help?
- > Cheers

SMI = "Standard Mapped Image" (I think) and there are 8640 pixels at the equator and 4320 between the poles. From that, there are 8640/360 pixels per degree (at the equator) or 0.041667 degrees per pixel. From that you can construct a grid which corresponds to the lat and lon at the center of each pixel.

Bruce

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Subject: Re: SMI/HDF format?

Posted by [d.poreh](#) on Tue, 13 Jul 2010 13:18:48 GMT

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On Jul 13, 5:08 am, Bruce Bowler <[bbow...@bigelow.org](mailto:bbow...@bigelow.org)> wrote:

- > On Tue, 13 Jul 2010 04:13:27 -0700, Dave Poreh set fingers to keyboard and
- > typed:
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- > can construct a grid which corresponds to the lat and lon at the center
- > of each pixel.
- >
- > Bruce

How could I know where is the 0 0 00 apparently it is not the left most pixel. I mean should I have start from -180 for lon (-90 for lat)?

Cheers

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Subject: Re: SMI/HDF format?

Posted by [Bruce Bowler](#) on Tue, 13 Jul 2010 14:41:53 GMT

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On Tue, 13 Jul 2010 06:18:48 -0700, Dave Poreh set fingers to keyboard and typed:

> On Jul 13, 5:08 am, Bruce Bowler <bbow...@bigelow.org> wrote:  
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>>  
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>> Bruce  
>  
> How could I know where is the 0 0 00 apparently it is not the left most  
> pixel. I mean should I have start from -180 for lon (-90 for lat)?  
> Cheers

In the data I'm familiar with in this format, lat=0, lon=0 is the center of the array and the lower left corner is  $-90+(0.041667/2)$ ,  $-18+(0.041667/2)$  (needed to have the pixels "symetric")

If I were you, I'd display the image (perhaps subsampled) and see where the continents appear and make a decision based on that (strangely, sometimes the image appears "upside down").

Bruce

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Subject: Re: SMI/HDF format?

Posted by [David Fanning](#) on Tue, 13 Jul 2010 15:14:20 GMT

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Bruce Bowler writes:

- > If I were you, I'd display the image (perhaps subsampled) and see where
- > the continents appear and make a decision based on that (strangely,
- > sometimes the image appears "upside down").

In IDL, projected images are *\*always\** upside down. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Seper ma de ni thue. ("Perhaps thos speakest truth.")

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Subject: Re: SMI/HDF format?

Posted by [d.poreh](#) on Wed, 14 Jul 2010 10:09:01 GMT

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On Jul 13, 8:14 am, David Fanning <n...@dfanning.com> wrote:

> Bruce Bowler writes:

- >> If I were you, I'd display the image (perhaps subsampled) and see where
- >> the continents appear and make a decision based on that (strangely,
- >> sometimes the image appears "upside down").

>

> In IDL, projected images are *\*always\** upside down. :-)

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

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

> Seper ma de ni thue. ("Perhaps thos speakest truth.")

Thanks Guys!

Cheers

Dave

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