
Subject: Re: SMI/HDF format?

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

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

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:

>> 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

>

> 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
