
Subject: Re: HDF_SD_ADDDATA problem

Posted by [UV_Catastrophe](#) on Tue, 22 Apr 2008 20:57:56 GMT

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On Apr 21, 7:24 pm, adfra...@utas.edu.au wrote:

```
> Dear Everyone,
>
> I'm having trouble writing to an HDF file using HDF_SD_ADDDATA, but
> let me set the scene quickly first.
>
> I'm using a multispectral satellite imagery dataset in its native L1B
> (HDF-EOS, it's MODIS for those who care!) format. When ordering the
> data, one has the option to channel subset the data to reduce size.
>
> I've written IDL programs to cloud mask the data, which involves
> manipulating an SDS within the HDF. My programs all work fine using
> the full, un-subsetted data, but whenever I try them on the subsetted
> HDFs, they fall over with this error.
>
> -----
> % HDF_SD_ADDDATA: Unable to write the specified HDF-SD slice.
> % Execution halted at: HDFEDITSDS      28 /array/work/adfraser/
> MODIS
> images/18_4_08 processing of winter2 data/output/HDFeditSDS.pro
> %          $MAIN$
> -----
>
> Here is the code which I've been using to write successfully to the
> unsubsetted data but unsuccessfully to the subsetted data:
>
> -----
> PRO HDFeditSDS, filename, sdsname, newdata
>
> sdfileid=hdf_sd_start(filename, /rdwr)
>
> ; Find the index of the "Gridded Data" SDS.
> index = HDF_SD_NAMETOINDEX(sdFileID, sdsname)
>
> ; Select the Gridded Data SDS.
> thisSdsID = HDF_SD_SELECT(sdFileID, index)
>
> HDF_SD_AddData, thisSdsID, newdata
>
> hdf_sd_end, sdfileid
>
> END
> -----
>
```

> I've checked all the obviously stupid things (file access permissions
> are identical, and the SDS name exists within the HDF). I'm at a loss,
> please help!
>
> Cheers,
> Alex.
>
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Hi Alex,

As Mary Jo pointed out, before calling `HDF_SD_END`, you should insert the following command: `"HDF_SD_ENDACCESS, sdfileid"`. However, as she said, that doesn't explain why your code was working for unsubsetted data.

Could you provide a little more information about the data that you're working with? Specifically:

- Have you tried running your code with various different data subsets? (You probably have, but it doesn't hurt to ask.)
- When you channel subset the data, which bands are you keeping?
- Out of curiosity, why aren't you just using the pre-masked data? (I believe that the website can provide you with data that has already been cloud masked.)

Ben Ripman
MODIS IOT
