
Subject: Re: hdf_sd_getdata

Posted by [James Kuyper](#) on Wed, 15 May 2002 21:48:13 GMT

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rc wrote:

> Hi all,

>

> I have a 3 dimensional HDF SD (512 pixels * 1000 lines * 14 bands) and

> i would like to extract only 3 bands(4, 8,11). Can anyone tell me how

> i can do that using hdf_sd_getData.thanks in advance.....rc

```
band4 = HDF_SD_GetData(sd_id, start=[0,0,4], count = [512, 1000, 1])
```

```
band8 = HDF_SD_GetData(sd_id, start=[0,0,8], count = [512, 1000, 1])
```

```
band11 = HDF_SD_GetData(sd_id, start=[0,0,11], count = [512, 1000, 1])
```

```
three_band = [ [[band4]], [[band8]], [[band11]] ]
```

Subject: Re: hdf_sd_getdata

Posted by [r_cherukuru3](#) on Thu, 16 May 2002 11:00:12 GMT

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James Kuyper <kuyper@gscmail.gsfc.nasa.gov> wrote in message

> band4 = HDF_SD_GetData(sd_id, start=[0,0,4], count = [512, 1000, 1])

> band8 = HDF_SD_GetData(sd_id, start=[0,0,8], count = [512, 1000, 1])

> band11 = HDF_SD_GetData(sd_id, start=[0,0,11], count = [512, 1000, 1])

>

> three_band = [[[band4]], [[band8]], [[band11]]]

Thanks james.....but is there any possibilty to do this same
task(random,multiple slab extraction) using a single line.....actually
im not clear with the keyword STRIDE....will that be of any use.....rc

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Subject: Re: hdf_sd_getdata

Posted by [James Kuyper](#) on Thu, 16 May 2002 19:05:17 GMT

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rc wrote:

```
> James Kuyper <kuyper@gscmail.gsfc.nasa.gov> wrote in message
>
>
>> band4 = HDF_SD_GetData(sd_id, start=[0,0,4], count = [512, 1000,
>> 1]) band8 = HDF_SD_GetData(sd_id, start=[0,0,8], count = [512,
>> 1000, 1]) band11 = HDF_SD_GetData(sd_id, start=[0,0,11], count =
>> [512, 1000, 1])
```

I knew I should have tested it before posting!

```
HDF_SD_GetData, sd_id, band4, start=[0,0,4], count = [512, 1000, 1])
; etc.
```

```
>>
>> three_band = [ [[band4]], [[band8]], [[band11]] ]
>
>
> Thanks james.....but is there any possibilty to do this same
task(random,multiple
> slab extraction) using a single line.....actually im not clear
> with the keyword STRIDE....will that be of any use.....rc
```

STRIDE is extremely useful - when it's applicable. Which isn't the case with random selections. If you'd asked for bands 5, 8, 11, you could have used

```
HDF_SD_GetData, bands, start=[0,0,5], count=[512,1000,3], stride=[1,1,3]
```

However, since the spacing is irregular, there's no way to do it in a single call. One option is to read in the whole array, and then select out the parts you want. This is only cost-effective for small arrays:

```
HDF_SD_GetData, sd_id, bands
bands = bands[:,*,[4,8,11]]
```
