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Subject: Re: eos\_gd\_getpixvalues() and eos\_gd\_\* generally  
Posted by [James Kuyper](#) on Tue, 29 Aug 2006 16:32:48 GMT  
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Ed Hyer wrote:

> Hi Knowledgeable People,  
>  
> 1) I am working with specific files, namely HDF\_EOS granules of the  
> level 3 MOD43 MODIS albedo product. This problem seems not to occur  
>  
> 2) The difference, maybe, is grid attributes with non-geographic  
> dimensions. MODIS LC(works) provides a single grid (x,y), while MOD43  
> 'Albedo' (does not work) provides multiple fields (10,2,x,y).  
>  
> 3) Problem outline:  
> fid=eos\_gd\_open(HDF\_filename)  
> ngrid=eos\_gd\_inqgrid(filename,grid)

HDF\_filename => filename?

> gid=eos\_gd\_attach(fid,grid); grid name from previous INQGRID  
> status=eos\_gd\_getpixels(gid,n\_xy,x\_latlong,y\_latlong,x\_image ,y\_image)

I'm presuming that, despite their odd names, x\_latlong contains the  
list of longitude values you're interested in, and y\_latlong contains  
the corresponding list of latitudes?

> f=where(x\_image ge 0 and y\_image ge 0,nf)  
> if(nf eq 0) then message, 'no points within image!'  
> fieldname='Albedo'  
> n\_extracted=eos\_gd\_getpixvalues(gid,nf,x\_image[f],x\_image[f],fieldname,extracted\_data)

I think the second x\_image should be y\_image.

> Now, according to the documentation, n\_extracted should be (nf \* 10 \*  
> 2), ...

The size is in bytes, so that should be multiplied by 2 when you're  
extracting the 'Albedo' field.

> .... and extracted data should be [10,2,nf], but this is not the case.  
> extracted\_data is [nf], and n\_extracted is [N \* nf], where N=8 to 40.

I can confirm similar symptoms, though I get corrupted descriptors and  
bus errors rather than segmentation faults. I also sometimes get  
n\_extracted that is correct, and sometimes I get 0; but I never get a  
multidimensional extracted\_data.

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