
Subject: doubt in EOS routines!

Posted by [gtbargavi](#) on Sat, 17 Jul 2010 00:48:35 GMT

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Hi all,

I am using AMSR-E Level 3 data which is in HDF-EOS V2 format. I am trying to subset a region with specific lat/lon values using EOS_GD_DEFBOXREGION and EOS_GD_EXTRACTREGION routines. I would like to know if there is any routine to check the lat/lon values obtained for the subset. i.e. say, I am subsetting a region for lat: 30N to 40 N, lon: 50 E to 60 E, and I would like to know if the result (subset) obtained has correct values for this region. how do i check it?

here is my piece of code..

```
file = 'C:\AMSR-E_2003-04\AMSR-E_2003-04_Data
\AMSR_E_L3_DailyOcean_V04_20031106.hdf'
```

```
grid = 'GlobalGrid'
```

```
dataf = 'Med_res_vapor'
```

```
fid = eos_gd_open(file)
```

```
gid = eos_gd_attach(fid, grid)
```

```
r1 = eos_gd_pixreginfo(gid, pixregcode)
```

```
print, "px", pixregcode
```

```
s1 = eos_gd_readfield(gid, dataf, wv)
```

```
print, "s1", s1
```

```
help, wv
```

```
clon = fltarr(2)
```

```
clat = fltarr(2)
```

```
clon[0] = 94.d
```

```
clon[1] = 96.d
```

```
clat[0] = 2.d
```

```
clat[1] = 4.d
```

```
regionid = eos_gd_defboxregion(gid, clon, clat)
```

```
help, regionid
```

```
s2 = eos_gd_extractregion(gid, regionid, dataf, rdata)
```

```
print, "s2", s2
```

```
help, rdata
```

```
end
```

also, is 'pixel registration code' returned by 'eos_gd_pixreginfo' the one used as 'X or Y offset' value used in the below mentioned formula to find out 'i-th longitude or latitude value'?

$(i + \text{offsetX}) * \text{scaleX} + \text{leftX}$

offsetX - pixel registration

scaleX and leftX - obtained from the range of longitude

Thanks,
Maha!
