
Subject: Re: Using IDL's map database

Posted by [Hermann Mannstein](#) on Mon, 04 Mar 1996 08:00:00 GMT

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dean@phobos.cira.colostate.edu wrote:

>
> I would like to access the IDL map data base to add a map to satellite
> images from GOES-8 or GOES-9. I have an algorithm to do this (MAP_SET, /SAT
> doesn't map correctly), but I need lat/long numbers to draw a map over my
> image.
>
> Is there a way to obtain this information from IDL's high resolution data
> set?

yes, the structure of the IDL high resolution data set is exactly the same as
it has been in the old SMA routines by Thomas Oettli, and the data within is
chains of lat/long numbers.

First read the index-file - ../maps/high/*.ndx:
with

```
nsecs=0L
```

```
openr, lun, ndxf, /xdr, /get_lun  
readu, lun, nsecs
```

```
ndx=replicate( { fptr:0L, npts:0L,maxlat:0.,minlat:0.,$  
                maxlon:0.,minlon:0. },nsecs )
```

```
readu, lun, ndx  
free_lun, lun
```

and then the *.dat (here: map_f) with

```
openr, lun, /get, map_f, /xdr, /stream
```

```
for i=0,n_elements(ndx)-1 do begin  
  point_lun, lun, mmndx(ndx(i)).fptr  
  xy=fltarr(2,mmndx(ndx(i)).npts)  
  readu, lun, xy
```

```
.....  
endfor
```

xy are the lat/lon coordinates of one line segment.

