
Subject: satellite data

Posted by [mmccabe](#) on Tue, 13 May 2003 20:17:33 GMT

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Hi all.

I know this is an old question, but I'm a new poster so please be gentle.

I muck around with all sorts of satellite data and am interested in finding a nice simple method of plotting said data onto a map projection or regular grid without using ENVI. Some of the data I use (TRMM-TMI) is irregular in that I just have lat/lon and the associated data values. Others, such as when I extract info from TERRA or AQUA files, is regular data, but only has the bounding co-ords of the image.

Can someone, in the spirit of 'shepherding the weak through the valley of darkness' offer me some basic tips on addressing this. It would be nice if I didn't have to interpolate the data also - so that I could interrogate the image for actual information rather than just displaying it.

While I'm at it, any tips on efficiently reading binary data of unknown size into an array - the data consists of 11 values (4byte records) for each pixel, but you never know how many pixels there are going to be for a particular overpass.

What I do at the moment is:

...

```
openr, lun, file, /get_lun, /swap_if_little_endian
fileinfo = FStat(lun)
rows = fileinfo.size/(11*4)
tmp=fltarr(11,rows)
```

```
while not eof(lun) do begin
  readu,lun,tmp
endwhile
```

....

Then I just need to extract the particular columns I'm interested in and make them into a 2D Array for plotting purposes (associated with lat/lon) but I'm not sure whether this is the best way to do it...hmmm - this probably doesn't make much sense so if your interested I could email you with some more detailed information.

Thanks for your patience!
