
Subject: avhrr data extraction

Posted by [anil](#) on Mon, 04 Jun 2012 12:46:53 GMT

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Hi,

I have downloaded some daily ,04km, night time sea surface temperature data from avhrr. an example:

`ftp://podaac-ftp.jpl.nasa.gov/allData/avhrr/L3/pathfinder_v5 /daily/ni...`

I want to read these data and extract the values for a region (defined latitudes and longitudes). To read the data , I use:

```
file=hdf_sd_start('2002252.s04d1pfv50-sst.hdf')
indexa=hdf_sd_nametoindex(file,'lon')
indexb=hdf_sd_nametoindex(file,'lat')
indexc=hdf_sd_nametoindex(file,'sst')
varida=hdf_sd_select(file,indexa)
varidb=hdf_sd_select(file,indexb)
varidc=hdf_sd_select(file,indexc)
hdf_sd_getdata,varida,loni
hdf_sd_getdata,varidb,lati
hdf_sd_getdata,varidc,ssti
hdf_sd_endaccess,varida
hdf_sd_endaccess,varidb
hdf_sd_endaccess,varidc
hdf_sd_end,file
```

```
;bsloni=loni(4715:5057)
```

```
;bslati=lati(1006:1142)
```

```
end
```

I want to extract the latitudes (1006 to 1142) and longitudes (4715 to 5057) and the corresponding sea surface temperatures (sst's) .At the end I need to end up with something like:

```
40.75  36.74  sst1
```

```
40.75  36.88  sst2
```

```
40.82  37.12  sst3
```

..... and so on. How can i do this? Defining a bsloni and bslati gives me the latitudes and longitudes but how do i get the corresponding sst's? With some kind of a where function? or a few for loops?or some other way?
