Subject: bounding box subsetting for lat/lon
Posted by mankoff on Tue, 16 Feb 2010 06:27:55 GMT

Hi,

I'm wondering if a routine already exists that can subset a data set
based on non-square lat/lon limits. I have large 1D arrays of lat,
lon, and data, and want to do something like this:

roi = WHERE(lat LE a AND lat GE b AND lon LE c AND lon GE d)
lat = lat[roi] & lon=lon[roi] & data = data[roi]

But at a minimum I want to specify 4 lat/lon elements that do not
defined the edges of the box but the four corners, so the roi could be
a diamond shape (when projected on, say, the /cylinder projection).
And ideally I could define a path of n points defining a closed region
and get the indices back that lie within that region.

Anyone know if this exists? I don't see it under the ROI section, and
searching for bounding box brings up too much noise.

Thanks,

  -k.