Subject: EOF Arctic Oscillation for beginner
Posted by siumtesfai on Fri, 06 Mar 2015 22:03:41 GMT
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Hello All,

I have difficulty in reproducing AO regression map
(http://www.cpc.ncep.noaa.gov/products/precip/CWlink/daily_ao _index/ao.loading.shtml)

I am working with the code (http://www.idlcoyote.com/code_tips/eof_analysis.html)

According the website it says
Note that my latitude values go from 47.5 to 90.0 degrees of latitude, in 2.5 degree increments. I am going to subtract 1.75 degrees from each of these latitude values, in order to locate the latitudes in the center of the grid, and to avoid multiplying by zero for all the latitudes at 90 degrees.

so dlat/2. should be 1.75

```
dims = Size(air_temp, /Dimensions)
 nlon = dims[0] & nlat = dims[1] & ntime = dims[2]
 lon = Reform(lon_ncep[*,0]) & dlon = Abs(lon[1]-lon[0])
 lat = Reform(lat_ncep[0,*]) & dlat = Abs(lat[1]-lat[0])
 weights = Sqrt(Cos((lat_ncep - dlat/2.) * !DtoR))
 FOR j=0,ntime-1 DO air_temp[*,*,j] = air_temp[*,*,j] * weights
```

any suggestion

Best regards