

Dear All,

I have got RCM data from Cordex with the following attributes

5 Variables : lat, lon, tasmin, time, height

file global attributes:

Conventions : CF-1.4

contact : sms416@kongju.ac.kr

creation_date : '2012-09-15 T02:44:17Z'

experiment_id : historical

experiment : Projection run with RCP historical

driving_experiment : HadGEM2-AO, projection, r1i1p1

driving_model_id : HadGEM2-AO

driving_model_ensemble_member : r1i1p1

driving_experiment_name : projection

frequency : day

institution_id : KNU

institution : Kongju National University, Gongju, South Korea

model_id : RegCM4

model : Regional Climate Model, ICTP

RCM_version_id : v4

RCM_version : version 4.0

project_id : CORDEX

dimensions:

ncl_scalar = 1

south_north = 195

west_east = 241

time = 1800 // unlimited

variables:

double lat (south_north, west_east)

units : degrees_north

long_name : latitude coordinate

standard_name : latitude

description : Latitude, South is negative

double lon (south_north, west_east)

units : degrees_east

long_name : longitude coordinate

standard_name : longitude

description : Longitude, West is negative

I have used ncl to plot that RCM on the native grid

```
ncl 0> f=addfile("1996_2001.nc","r")
```

```
ncl 1> temp=f->tasmin
```

```
ncl 2> newtemp=temp(0,,:)
```

```
ncl 3> load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/gsn_code.ncl"
```

```
ncl 4> load "$NCARG_ROOT/lib/ncarg/nclscripts/csm/gsn_csm.ncl"
```

```
ncl 5> lat=f->lat
```

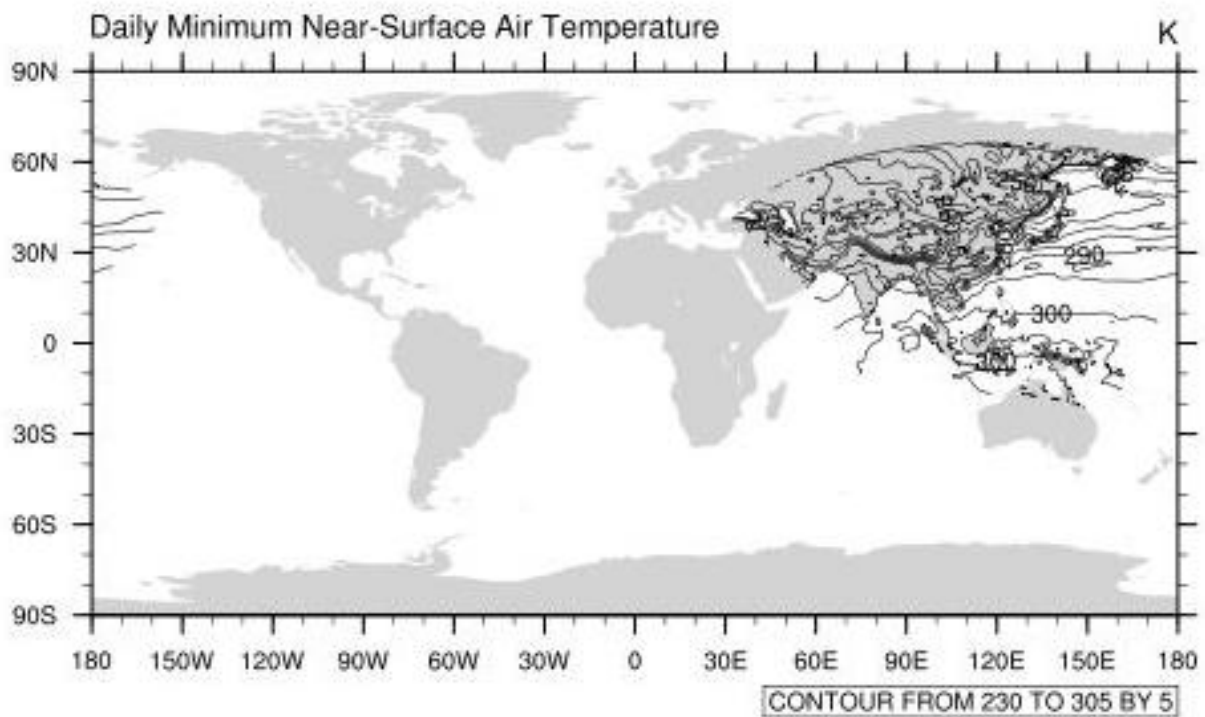
```
ncl 6> lon=f->lon
```

```
ncl 7> newtemp@lat2d=lat
```

```
ncl 8> newtemp@lon2d=lon
```

```
ncl 9> wks=gsn_open_wks("x11","res")
```

```
ncl 10> plot=gsn_csm_contour_map(wks,newtemp,False)
```



Now my problem is , I need to extract data only for study area. My study area ranges from $27^{\circ}09'03''$ N to $28^{\circ}06'24''$ N and $86^{\circ}26'02''$ E to $86^{\circ}2'52''$ E. This RCM data has a resolution of 5KM. How I can identify those grids only covering my study area and extract data for only those grids for the whole period. Please help me in this matter.