

# Supplement to: “The Regional Aerosol Model Intercomparison Project (RAMIP)”

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This supplement contains an example of using the CDO functions, `mergegrid` and `sellonlatbox`, to modify SSP emission files for the RAMIP simulations. In the example below, `mergegrid` is used to insert SSP1-2.6 data from a specified geographical region into an array containing SSP3-7.0 data everywhere else.

```
5 #!/bin/bash
#List emission files
list=`ls /example/ssp126/*.nc`
for ll in $list; do
file="{ll##*/}"
10 echo $file

#Replace SSP3-7.0 with SSP1-2.6 for the longitude-latitude box bounded
#by lon1,lon2,lat1,lat2
```

```
cdo -mergegrid /example/ssp370/$file \  
15 -sellonlatbox,lon1,lon2,lat1,lat2 \  
/example/ssp126/$file /example/ramip/$file  
  
#Extract the 12 months of data for 2050 (time indices tmin to tmax) from  
#the timeseries to make the input file for the fixed SST simulations  
20 ncks -d time,tmin,tmax /example/ramip/$file /example/ramip_fsst/$file  
  
#Update attributes in the file for the fixed SST simulations  
ncatted -a update_type,global,m,1,2 /example/ramip_fsst/$file  
done  
25 exit
```