

一、这是一个用 function_cmip_3D.ncl 的示意，文件名为 test.ncl

```
load "/*function_cmip_3D.ncl"
```

```
begin
```

```
;      Define parameters,You must set this part to run the program
```

```
;      including interpolation year, range, method, accuracy
```

需要输出参数如下

```
-----
```

```
;      set interpolation year
```

```
-----
```

```
yrStrt  = 1950
```

```
yrLast  = 1961
```

给出插值年份

```
-----
```

```
;      set interpolation scope
```

```
-----
```

```
latS    = 5
```

```
latN    = 42
```

```
lonW    = 102
```

```
lonE    = 130
```

给出插值范围

```
-----
```

Conserve (守恒插值) 在 CDO 中没有提供，但是对于降水、碳通量的插值可能需要用到。

```
;      set interpolation method
```

```
;      and accuracy
```

```
;      InterpMethods = ("/bilinear","patch","conserve","neareststod"/)
```

```
;      "1x1", "2x3", "0.25x0.25", etc
```

```
;      "1deg", "0.25deg" "0.25 deg" "0.25" (which means "0.25deg")
```

```
;      "G64", "G128" (gaussian)
```

```
-----
```

```
Method = "bilinear"
```

```
GridType = 0.5
```

给出插值方式和插值格网

```
-----
```

```
;      Sets the file read/write location and name
```

```
-----
```

```
path = "/*test/"
```

```
pathout = "/*regrid/"
```

```
outputname = "alltest.nc"
```

给出文件所在位置，输出位置及文件名字

```
nclcmip(path,pathout,outputname,yrStrt,yrLast,latS,latN,lonW,lonE,Method,GridType)
```

```
end
```

调用插值函数

二、Path 路径下的文件可以是相同气象要素（只有 ps），也可以是不同气象要素(ps,tas,tos…)但是一个路径下 Frequency 要一致(mon/day/6hr/3hr)

```
ps_Amon_CanESM5_historical_r10i1p2f1_gn_185001-201412.nc
ps_Amon_CanESM5_historical_r24i1p2f1_gn_185001-201412.nc
ps_Amon_CanESM5_historical_r7i1p2f1_gn_185001-201412.nc
ps_Amon_CanESM5_historical_r8i1p2f1_gn_185001-201412.nc
ps_Amon_CanESM5_historical_r9i1p2f1_gn_185001-201412.nc
ps_Amon_CESM2-FV2_historical_r1i1p1f1_gn_185001-189912.nc
ps_Amon_CESM2-FV2_historical_r1i1p1f1_gn_190001-194912.nc
ps_Amon_CESM2-FV2_historical_r1i1p1f1_gn_195001-199912.nc
ps_Amon_CESM2-FV2_historical_r1i1p1f1_gn_200001-201412.nc
ps_Amon_CESM2-WACCM-FV2_historical_r1i1p1f1_gn_185001-189912.nc
ps_Amon_CESM2-WACCM-FV2_historical_r1i1p1f1_gn_190001-194912.nc
ps_Amon_CESM2-WACCM-FV2_historical_r1i1p1f1_gn_195001-199912.nc
ps_Amon_CESM2-WACCM-FV2_historical_r1i1p1f1_gn_200001-201412.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_185001-185912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_186001-186912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_187001-187912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_188001-188912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_189001-189912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_190001-190912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_191001-191912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_192001-192912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_193001-193912.nc
ps_Amon_FGOALS-g3_historical_r1i1p1f1_gn_194001-194912.nc
```