

# **AGCM-CPTEC/INPE**

**Data 30/06 (14h-17) –**

**Palestra: MCGA do CPTEC/INPE: Teoria,  
Desenvolvimento e Aplicações - Parte I;**

**Data 01/07 (9h-12) –**

**Palestra: MCGA do CPTEC/INPE: Teoria,  
Desenvolvimento e Aplicações - Parte II;**



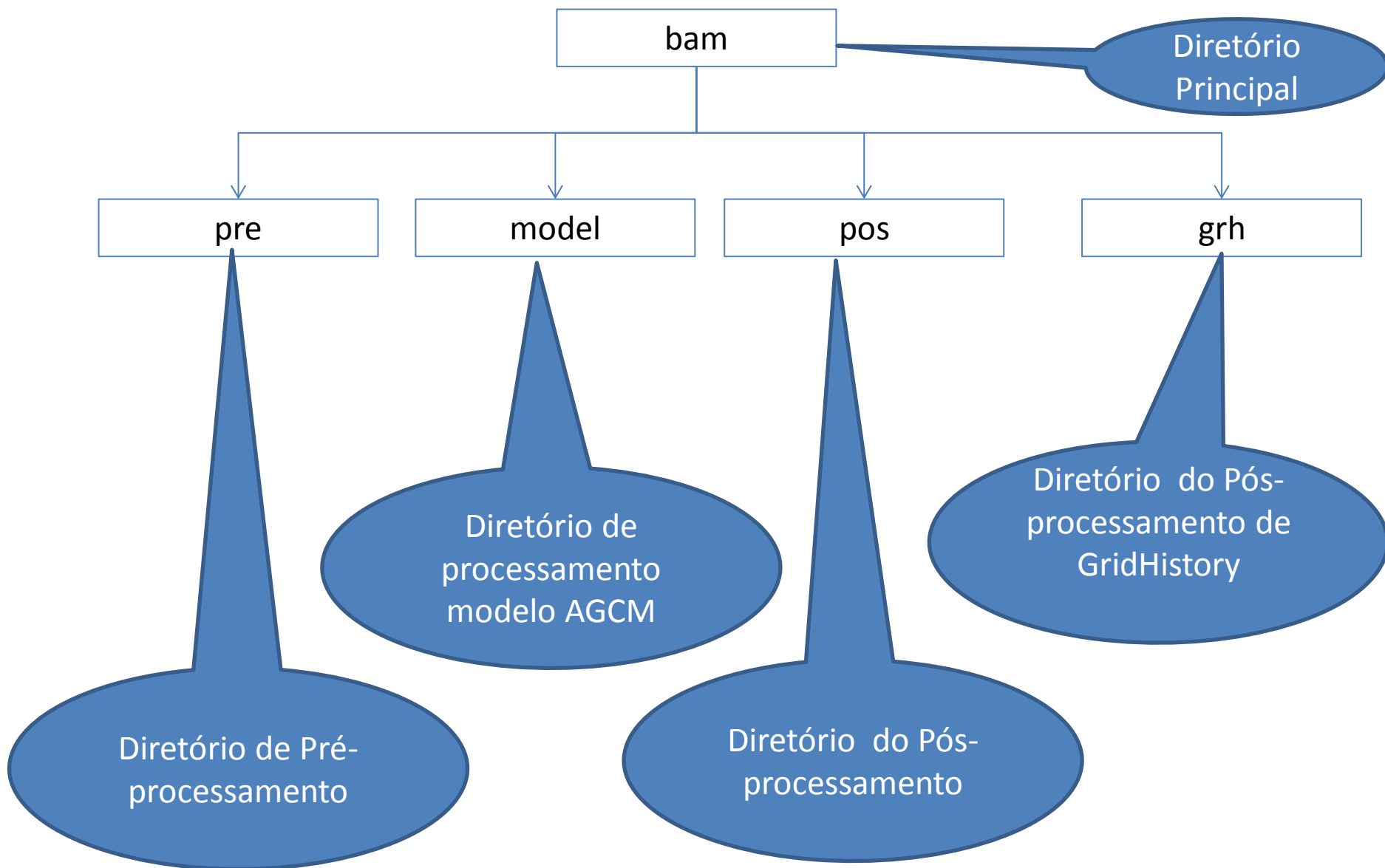
Data 30/06 (14h-17) –

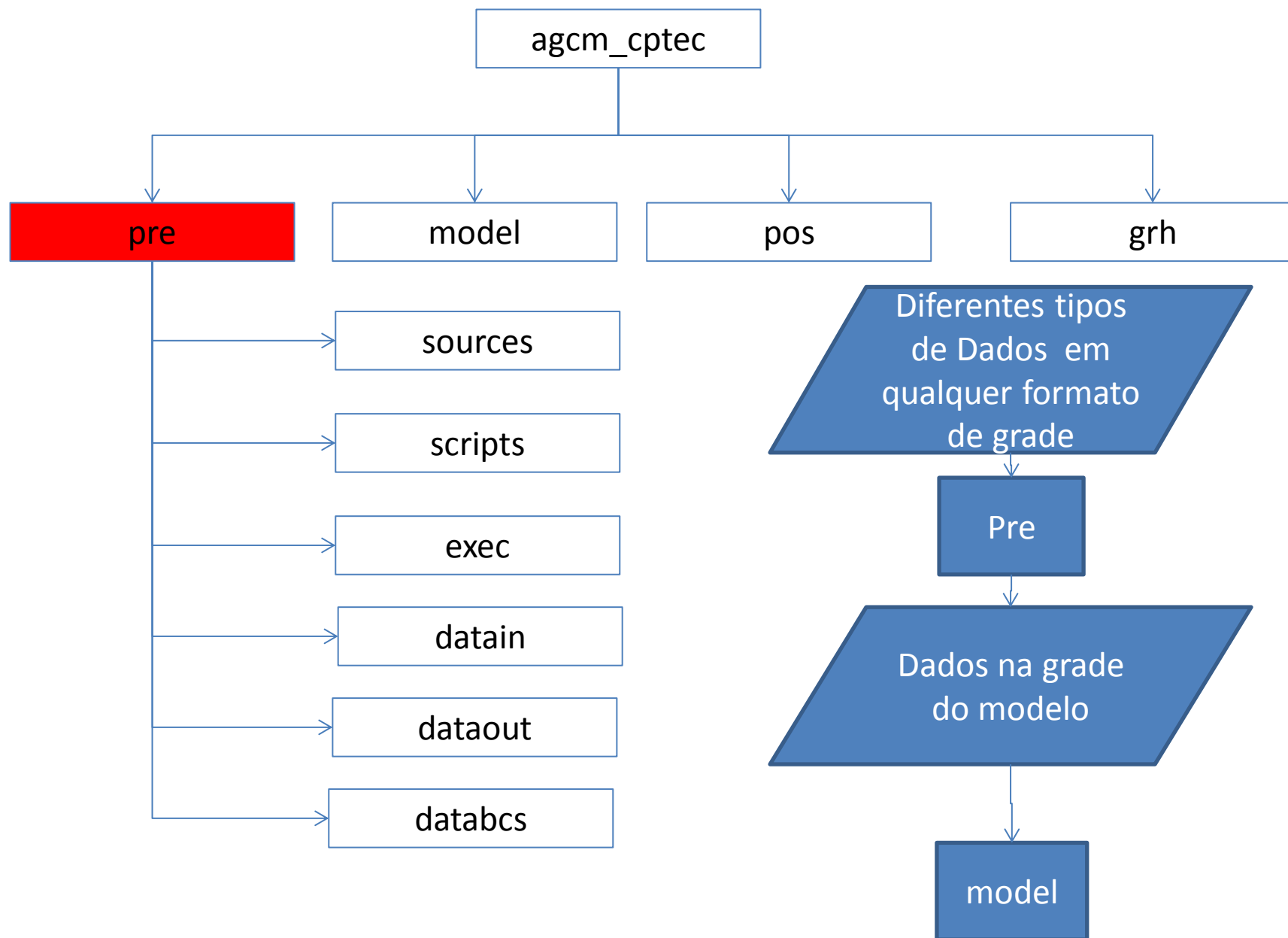
Palestra: MCGA do CPTEC: Teoria, Desenvolvimento e Aplicações - Parte I;

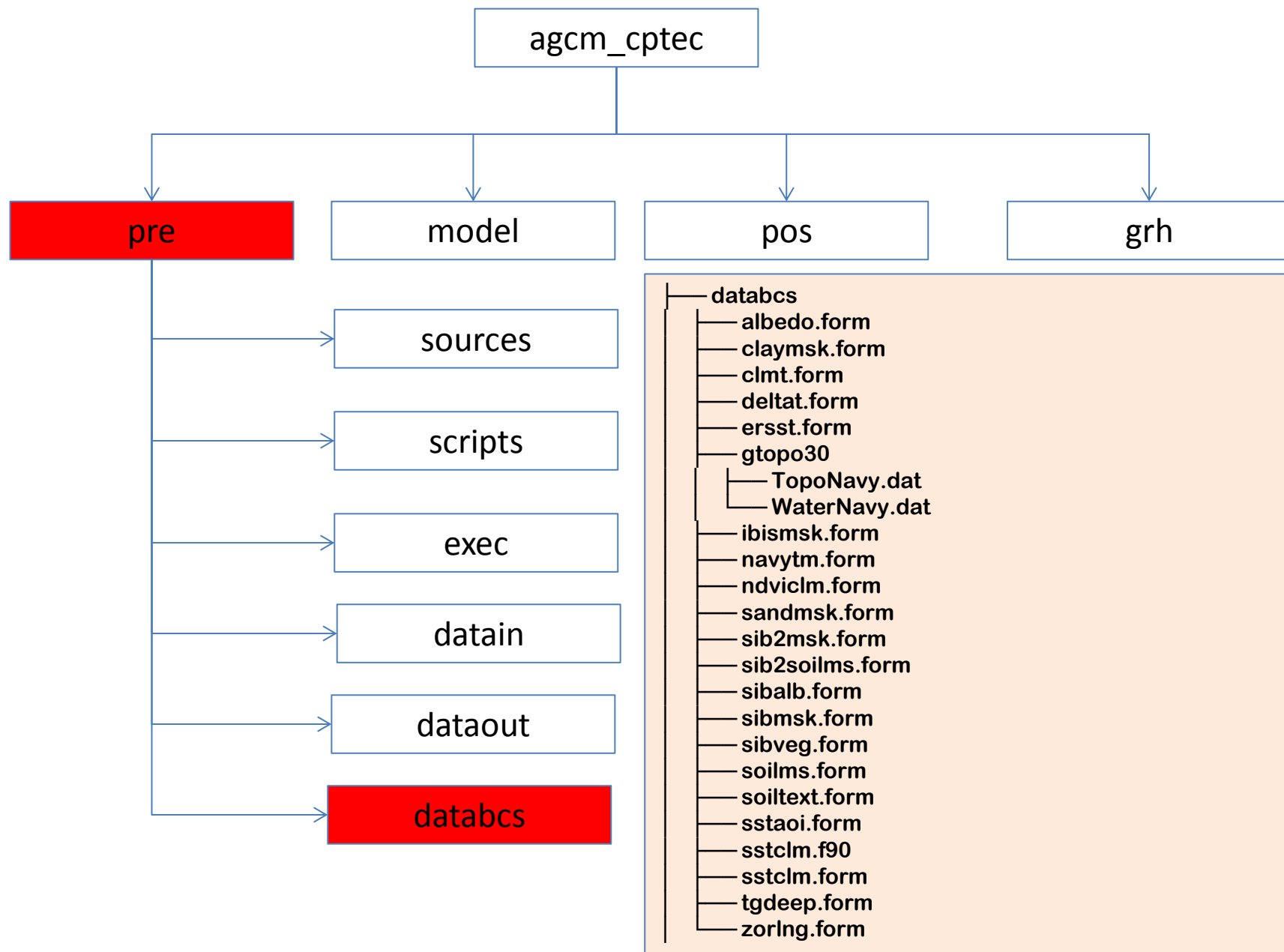
Data 01/07 (9h-12) –

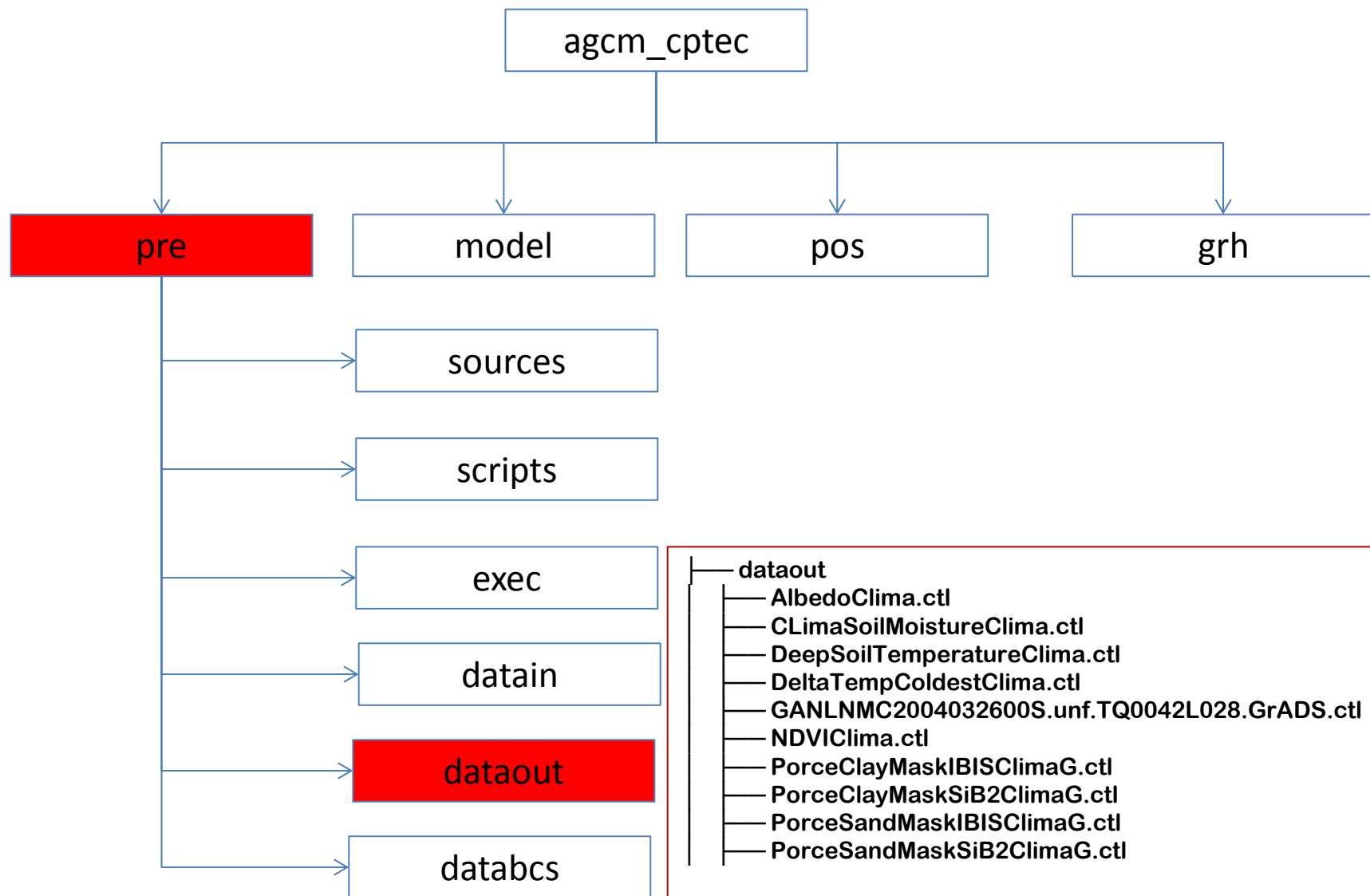
Palestra: MCGA do CPTEC: Teoria, Desenvolvimento e Aplicações - Parte II;

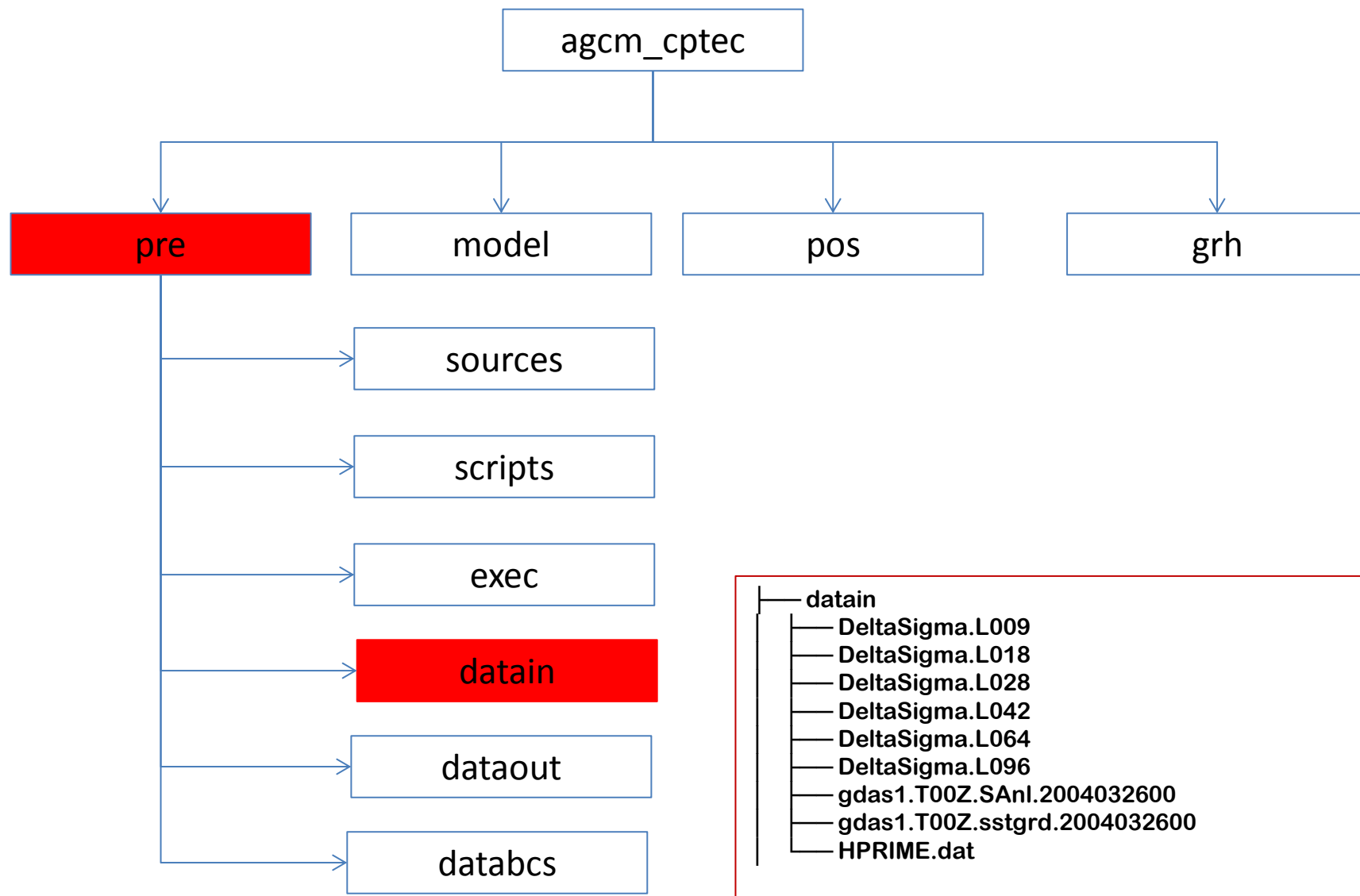
# Estrutura de diretórios do AGCM-CPTEC/INPE



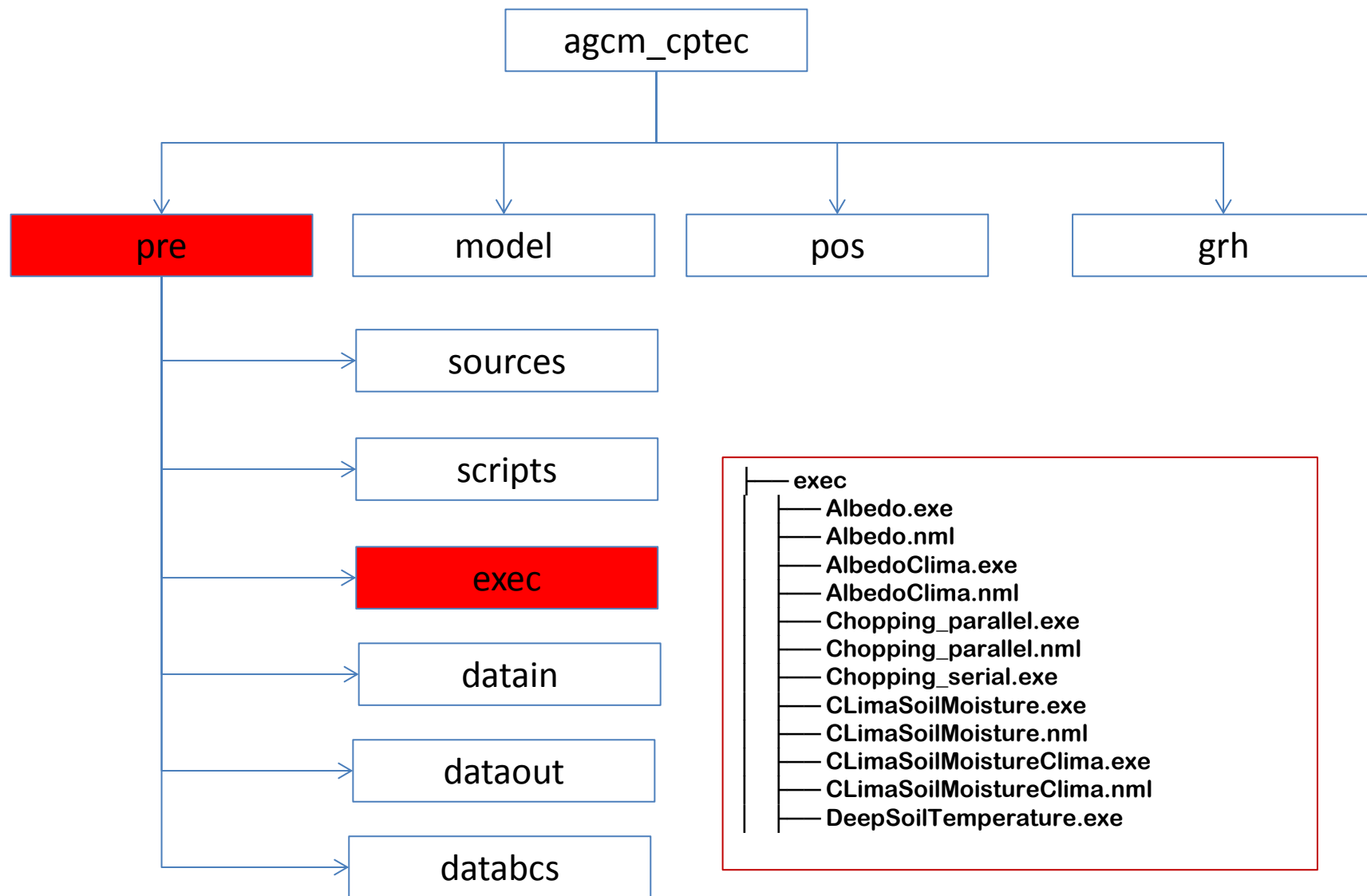




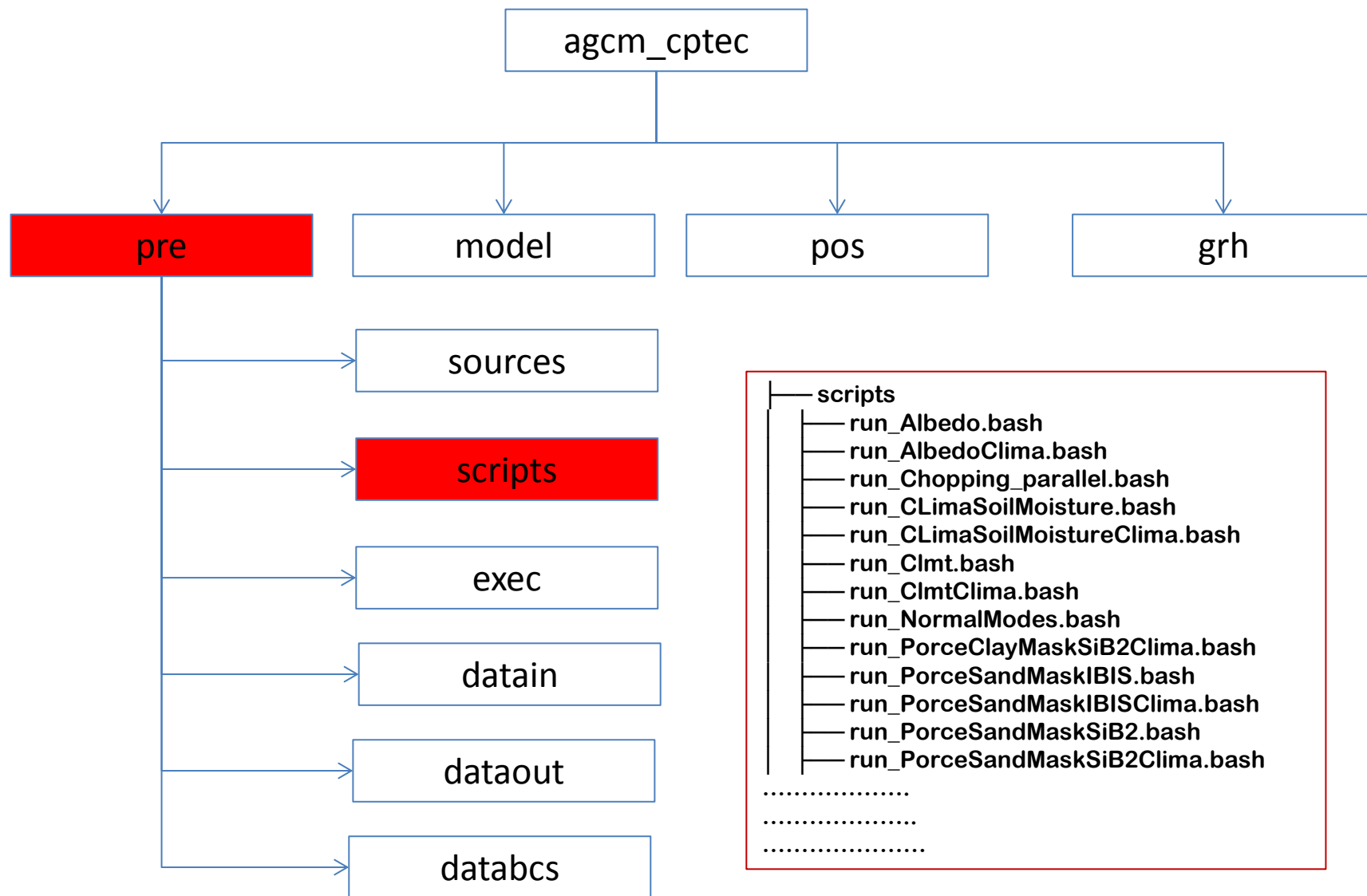












```

#!/bin/bash
#
# script to run CPTEC Global Model on PC Clusters under MPI Scal
# and Sun Grid Engine without OpenMP
# hold: any, present or not;
#     if absent, script finishes after queueing job;
#     if present, script holds till job completion
if [ "$#" == 4 ]
then hold=""
else hold=
fi
export FEXE=`pwd`
export cpu_mpi=1
export cpu_node=2
export RES=3
num=$((cpu_mpi+cpu_node-1))
fra=$((num/cpu_node))
cpu_tot=$((fra*cpu_node))
echo fila=mpi-npn${cpu_node} total cpus=${cpu_tot}

varname=Albedo
ieeefiles='10,20'
#
direxe=${dirdata}/pre/exec
dirsrc=${dirhome}/sources/${varname}
dirout=${dirhome}/scripts/output
dirrun=${dirhome}/scripts
echo " "
host=`hostname`
echo " ${host}"
RUNTM=`date +%d_%H:%M`
#
cat <<EOT0 > ${direxe}/${varname}.nml
&InputDim
  lmax=${lM},    ! Number of Longitudes at Output Gaussian Grid
  jmax=${jM},    ! Number of Latitudes at Output Gaussian Grid
  ldim=72,       ! Number of Longitudes in Climatological Albedo Data
  jdim=46,       ! Number of Latitudes in Climatological Albedo Data
  GrADS=.TRUE., ! Flag for GrADS Outputs
  Linear=.TRUE., ! Flag for Linear (T) or Area Weighted (F) Interpolation
  VarName='AlbedoClima ' ! Output Albedo Archive Name
  DirMain=${dirdata}/ ' ! Main Datain/Dataout Directory
/
EOT0

```

```

export PBS_SERVER=${pbs_server2}
optserver=`printf "$PBS_SERVER \n" | cut -c1-3`
if [ ( ${optserver} = "aux" ) ]; then
export MPPBS="#"
else
export MPPBS="#PBS -l mppwidth=${cpu_mpi}"
fi

cat <<EOT1 > ${direxe}/set${varname}.bash
#!/bin/bash
#PBS -o ${host}:${direxe}/Out.MPI${cpu_mpi}
#PBS -j oe
#PBS -l walltime=${AUX_WALLTIME}
#PBS -A ${QUOTA}
${MPPBS}
#PBS -l mppnppn=${cpu_node}
#PBS -V
#PBS -S /bin/bash
#PBS -N $RES
#PBS -q ${AUX_QUEUE}

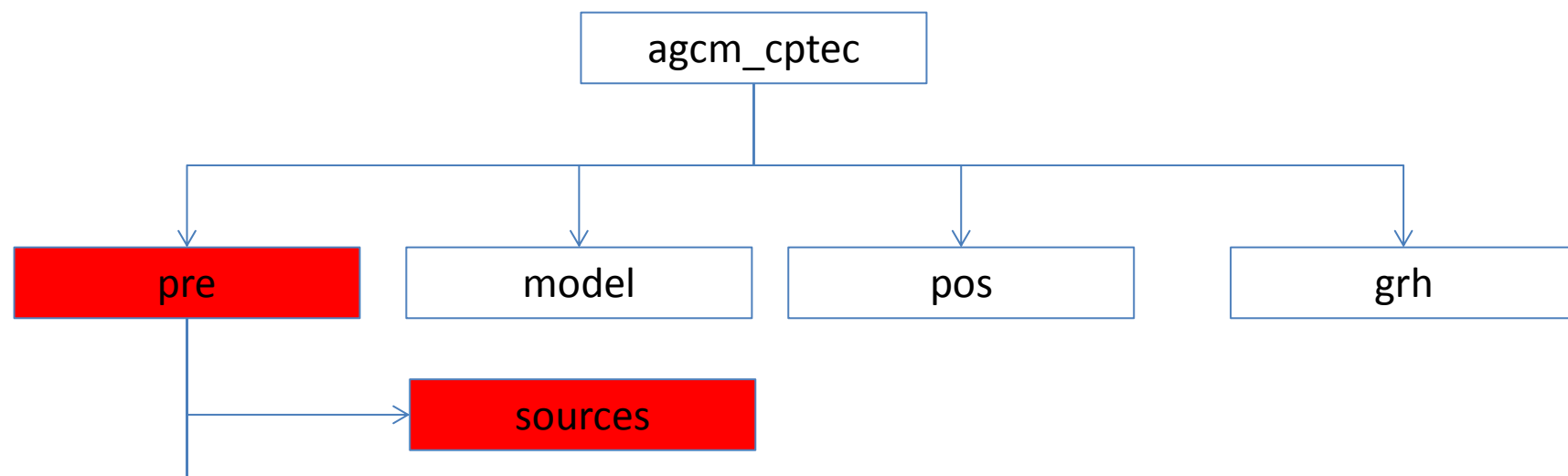
#
export PBS_SERVER=${pbs_server2}

if [ ( ${MAUI} = "Linux" ) || ( ${MAUI} = "linux" ) ]; then
export F_UFMTENDIAN=${ieeefiles}
export GFORTRAN_CONVERT_UNIT=big_endian:${ieeefiles}
echo ${F_UFMTENDIAN}
echo "GFORTRAN_CONVERT_UNIT= " ${GFORTRAN_CONVERT_UNIT}
fi
export KMP_STACKSIZE=128m
ulimit -s unlimited

#
cd ${direxe}
date
optserver=`printf "$PBS_SERVER \n" | cut -c1-3`
if [ ( ${optserver} = "aux" ) ]; then
${direxe}/${varname} -i ${direxe}/${varname}.nml
else
time aprun -n ${cpu_mpi} -N ${cpu_node} ${direxe}/${varname} -i
${direxe}/${varname}.nml
fi
date

EOT1
#
# Change mode to be executable
#
chmod +x ${direxe}/set${varname}.bash
${direxe}/set${varname}.bash








```



Albedo	AlbedoClima	Chopping	Chopping_parallel
Chopping_serial	CLimaSoilMoisture	CLimaSoilMoistureClima	DeepSoilTemperature
DeepSoilTemperatureClima	DeltaTempColdest	DeltaTempColdestClima	LandSeaMask
makefiles	NDVI	NDVIClima	NormalModes
PorceClayMaskIBIS	PorceClayMaskIBISClima	PorceClayMaskSiB2	PorceClayMaskSiB2Clima
PorceSandMaskIBIS	PorceSandMaskIBISClima	PorceSandMaskSiB2	PorceSandMaskSiB2Clima
RoughnessLength	RoughnessLengthClima	SnowClima	SNOWWeekly
SNOWWeeklyNCEP	SoilMoisture	SoilMoistureClima	SoilTextureMaskSiB2
SoilTextureMaskSiB2Clima	SSTClima	SSTDailyDirec	SSTMonthlyDirec
SSTWeekly	SSTWeeklyNCEP	Temperature	TemperatureClima
TopographyGradient	TopoSpectral	TopoWaterPercGT30	TopoWaterPercNavy
VarTopo	VegetationAlbedoSSiB	VegetationMask	VegetationMaskIBIS
VegetationMaskIBISClima	VegetationMaskSiB2	VegetationMaskSiB2Clima	VegetationMaskSSiB
Makefile	Makefile.in		



NormalModes

Nome	Data de modificaç...	Tipo	Tamanho
 Eigen	19/08/2013 11:21	Arquivo F90	28 KB
 HorizontalModes	19/08/2013 11:21	Arquivo F90	17 KB
 InputParameters	03/12/2014 17:15	Arquivo F90	4 KB
 Makefile	19/08/2013 11:21	Arquivo	1 KB
 Makefile.common	19/08/2013 11:27	Arquivo COMMON	2 KB
 NormalModes	02/12/2014 18:19	Arquivo F90	3 KB
 VerticalModes	19/08/2013 11:21	Arquivo F90	17 KB







pre/datain  
DeltaSigma.LYYY

NormalModes

model/datain  
NMI.TQXXXXLYYY



LandSeaMask

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LandSeaMask	07/11/2012 15:42	Arquivo F90	6 KB
 LandSeaMaskNavy.nml	07/11/2012 15:42	Arquivo NML	1 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/datain  
waterNavy.dat

LandSeaMask

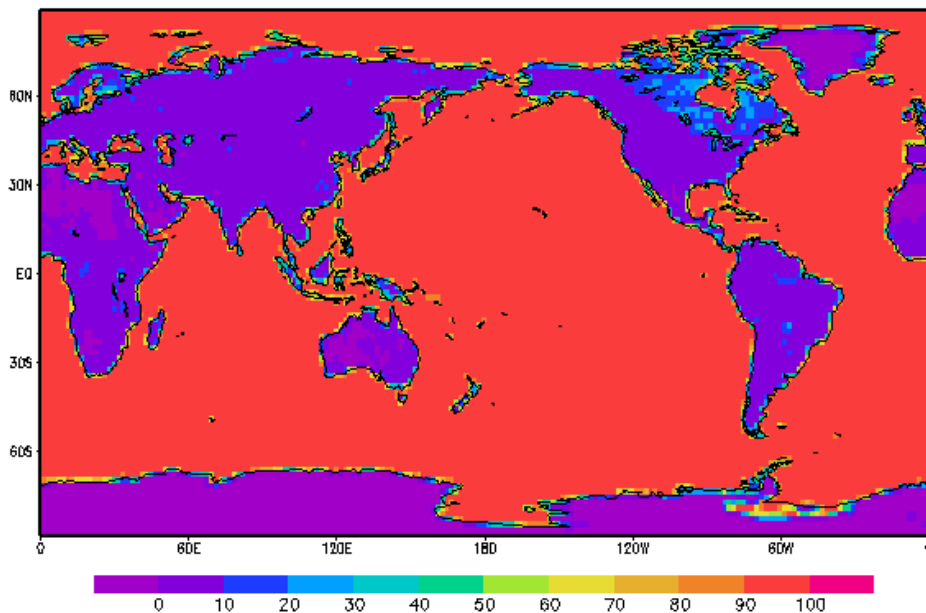
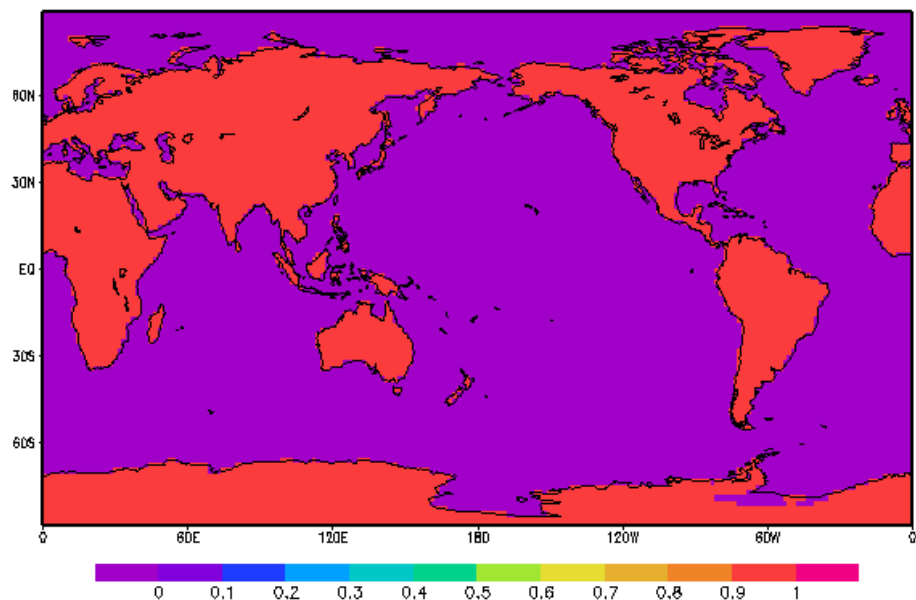
pre/dataout  
LandSeaMask.GZZZZ

pre/dataout  
LandSeaMaskNavy.GZZZZ.dat  
LandSeaMaskNavy.GZZZZ.ctl









```
pre/dataout
LandSeaMaskNavy.GZZZZ.dat
LandSeaMaskNavy.GZZZZ.cti
```

```
YDEF 96 LEVELS -88.57217 -88.57217
....
VARS 2
WPER 0 99 Percentage of Water [%]
LSMK 0 99 Land Sea Mask [1-Land 0-Sea]
ENDVARS
```





VarTopo

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:41	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:41	Arquivo F90	5 KB
 LinearInterpolation	07/11/2012 15:41	Arquivo F90	9 KB
 Makefile	07/11/2012 15:41	Arquivo	1 KB
 Makefile.common	07/11/2012 15:41	Arquivo COMMON	1 KB
 VarTopo	07/11/2012 15:41	Arquivo F90	7 KB

pre/datain  
TopoNavy.dat

VarTopo

model/dataout  
TopoVariance.GZZZZ

pre/dataout  
Topography.GZZZZ

pre/dataout  
VarTopoNavy.GZZZZ.cti  
VarTopoNavy.GZZZZ.dat





VarTopo

```
pre/dataout
VarTopoNavy.GZZZZ.cti
VarTopoNavy.GZZZZ.dat
```

```
YDEF 96 LEVELS -88.57217 -88.57217
```

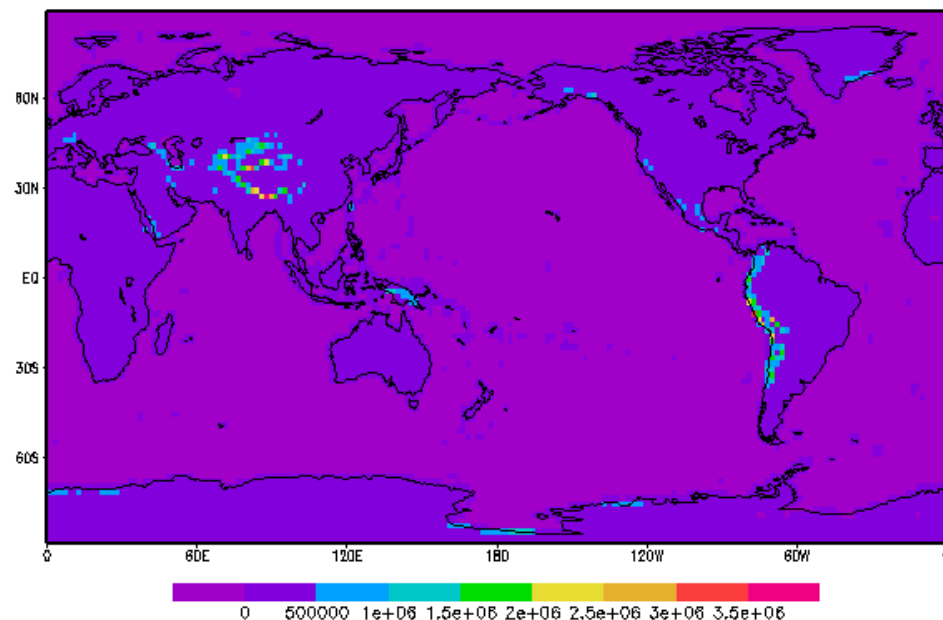
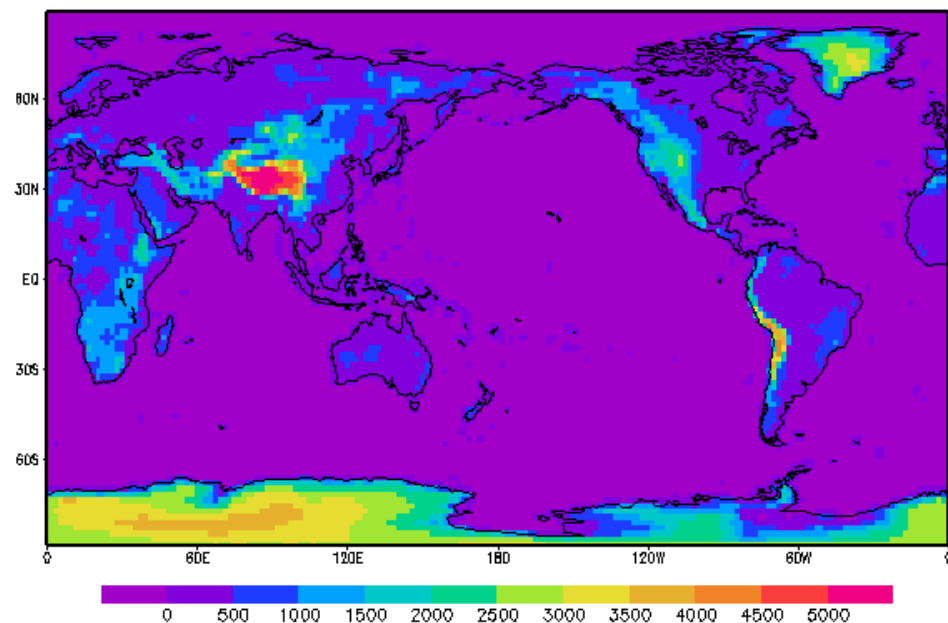
```
....
```

```
VARS 2
```

```
TOPO 0 99 Topography [m]
```

```
VART 0 99 Variance of Topography [m2]
```

```
ENDVARS
```





TopoSpectral

Nome	Data de modificaç...	Tipo	Tamanho
FastFourierTransform	07/11/2012 15:42	Arquivo F90	33 KB
InputParameters	07/11/2012 15:42	Arquivo F90	5 KB
LegendreTransform	07/11/2012 15:42	Arquivo F90	24 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
SpectralGrid	07/11/2012 15:42	Arquivo F90	2 KB
TopoSpectral	07/11/2012 15:42	Arquivo F90	5 KB

pre/datain  
Topography.GZZZZ

TopoSpectral

pre/dataout  
Topography.TQXXXXX

pre/dataout  
TopographyRec.GZZZZ.cti  
TopographyRec.GZZZZ.dat



TopoSpectral

```
pre/dataout
TopographyRec.GZZZZ.cti
TopographyRec.GZZZZ.dat
```

```
YDEF 96 LEVELS -88.57217 -88.57217
```

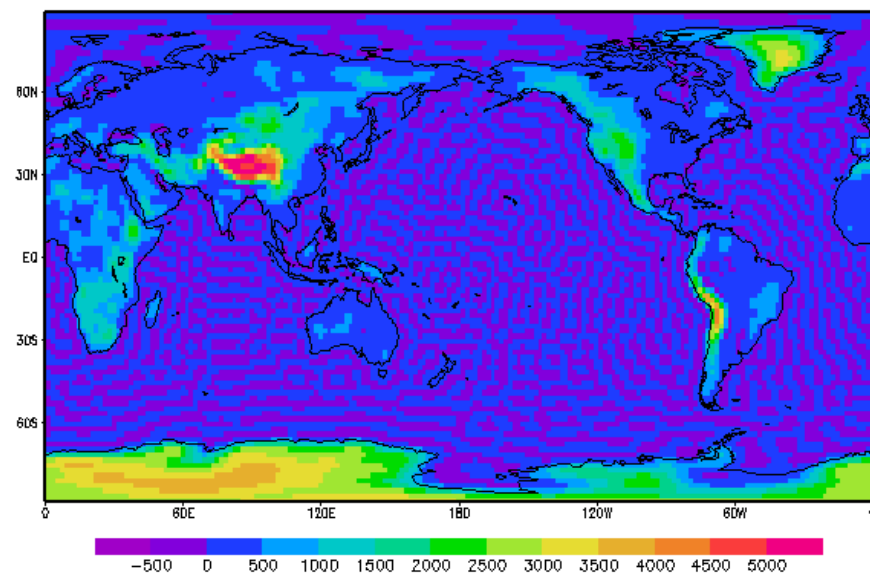
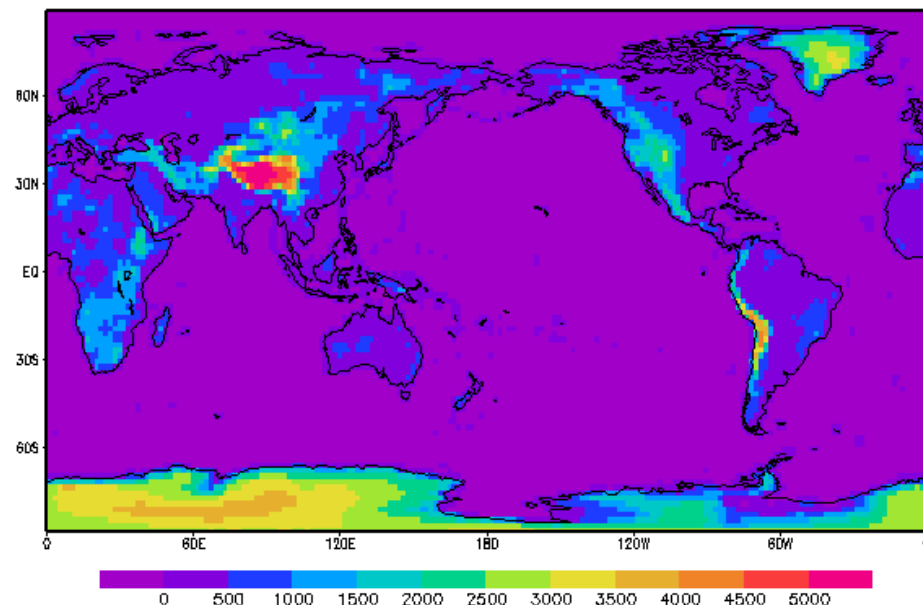
```
....
```

```
VARS 2
```

```
TOPI 0 99 Interpolated Topography [m]
```

```
TOPR 0 99 Recomposed Topography [m]
```

```
ENDVARS
```





Chopping\_parallel

Nome	Data de modificaç...	Tipo	Tamanho
Chopping	08/08/2013 16:15	Arquivo F90	45 KB
Communications	07/11/2012 15:42	Arquivo F90	39 KB
Init	07/11/2012 15:42	Arquivo F90	4 KB
InputArrays	07/11/2012 15:42	Arquivo F90	6 KB
InputParameters	14/12/2012 08:15	Arquivo F90	18 KB
Makefile	07/11/2012 15:42	Arquivo	2 KB
Makefile.common	05/12/2014 17:09	Arquivo COMMON	3 KB
Parallelism	07/11/2012 15:42	Arquivo F90	7 KB
Sizes	07/11/2012 15:42	Arquivo F90	44 KB
SpecDynamics	07/11/2012 15:42	Arquivo F90	16 KB
Transform	07/11/2012 15:42	Arquivo F90	104 KB
Utils	07/11/2012 15:42	Arquivo F90	108 KB
VerticalInterpolation	09/08/2013 09:58	Arquivo F90	11 KB

pre/datain  
gdas1.ThhZ.Sanl.YYYYMMDDHH  
GANLNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/datain  
DeltaSigma.LZZZ

pre/dataout  
Topography.TQXXXXX

Chopping\_parallel

pre/dataout  
OZONNMCMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS  
TRACNMCMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS

pre/dataout  
OZONSMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS  
TRACSMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS

model/datain  
GANLNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ  
OZONNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ  
TRACNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

model/datain  
GANLSMYYYYMMDDHHS.unf.TQYYYYLZZZ  
OZONSMYYYYMMDDHHS.unf.TQYYYYLZZZ  
TRACSMYYYYMMDDHHS.unf.TQYYYYLZZZ

```
pre/datain  
gdas1.ThhZ.Sanl.YYYYMMDDHH
```



Chopping\_parallel

```
READ (UNIT=nficer) ForecastDay, TimeOfDay, DateInitial, &  
DateCurrent, SigIInp, SigLInp
```

```
READ (UNIT=nficer) qTopoInp ! topography
```

```
READ (UNIT=nficer) qLnPsInp ! Ln Surface pressure
```

```
READ (UNIT=nficer) qTvirlInp ! Virtual Temperature
```

```
READ (UNIT=nficer) qDivgInp ! Divergence
```

```
READ (UNIT=nficer) qVortInp ! Vorticity
```

```
READ (UNIT=nficer) qSpHuInp ! Specific Humidity
```

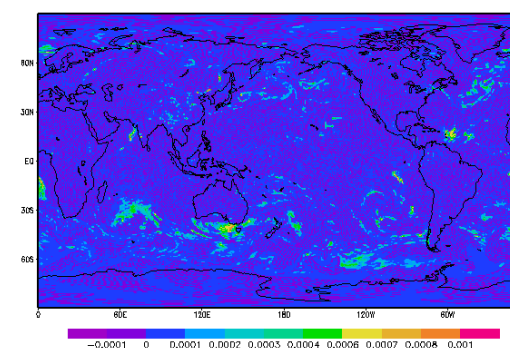
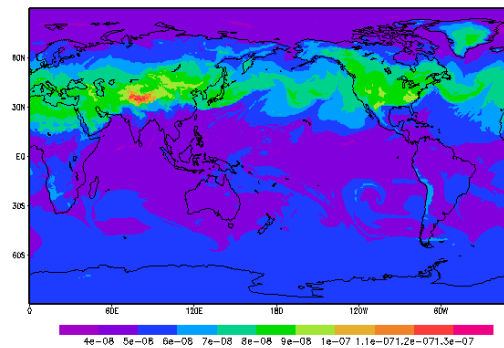
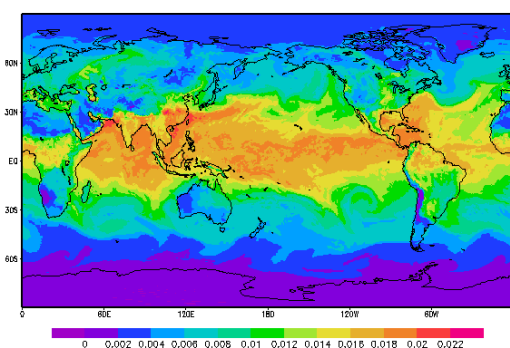
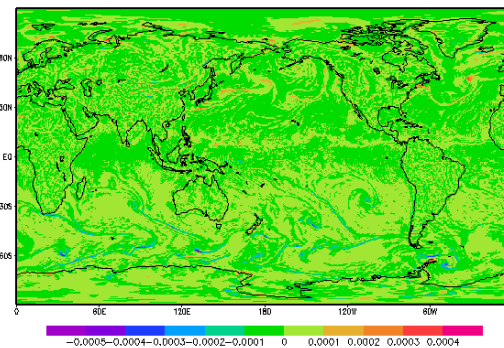
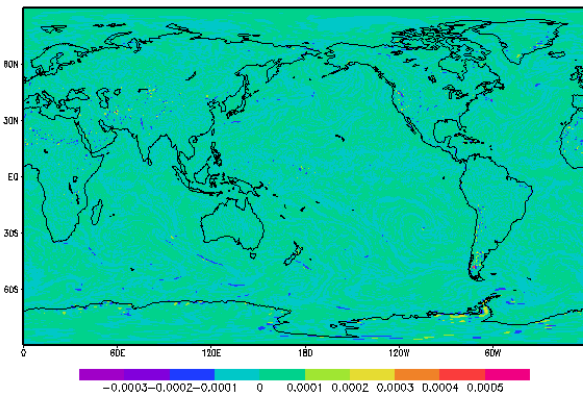
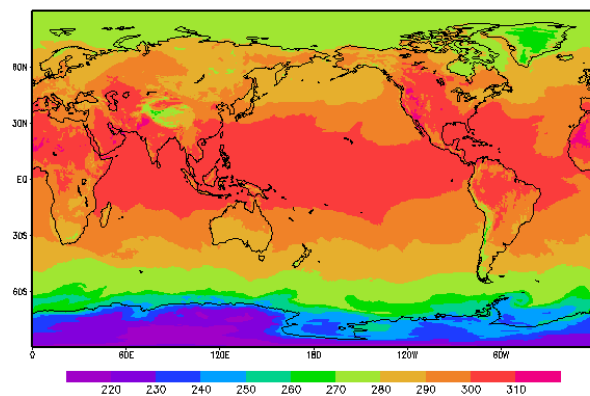
```
READ (UNIT=nfozr) qOzonInp ! Ozone
```

```
READ (UNIT=nftrr) qTracerInp ! tracer
```





Chopping\_parallel



pre/dataout  
GANLNMCMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS  
GANLNMCMYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS.cti

vars 10  
topo 0 99 Topography TQ1534L064 (m)  
pslc 0 99 Surface Pressure TQ1534L064 (hPa)  
tvr 64 99 Virt Temperature TQ1534L064 (K)  
divg 64 99 Divergence TQ1534L064 (1/s)  
vort 64 99 Vorticity TQ1534L064 (1/s)  
umes 64 99 Specific Humidity TQ1534L064 (kg/kg)  
uvel 64 99 Zonal Wind TQ1534L064 (m/s)  
vvel 64 99 Meridional Wind TQ1534L064 (m/s)  
ozon 64 99 Ozone TQ1534L064 (?)  
trc1 64 99 Tracer TQ1534L064 (?)  
endvars



Chopping\_parallel

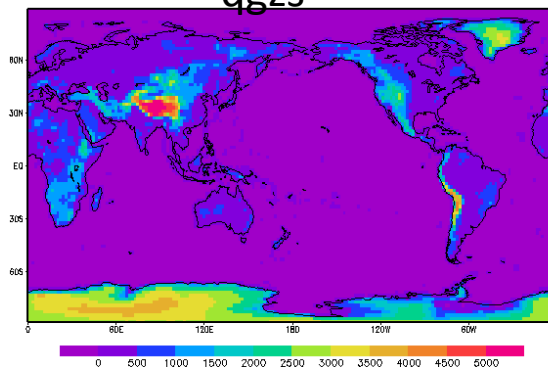
model/datain

GANLNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

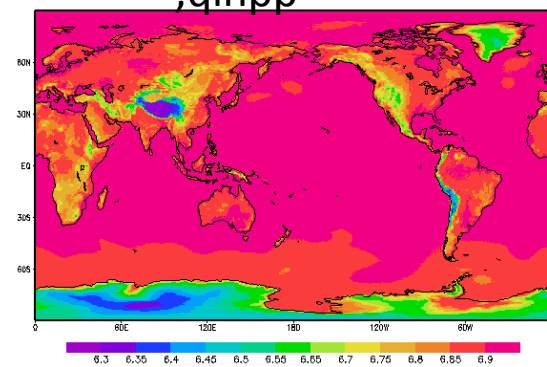
OZONNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

TRACNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

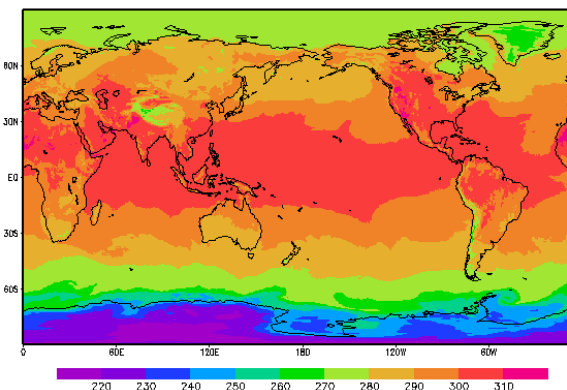
qgz



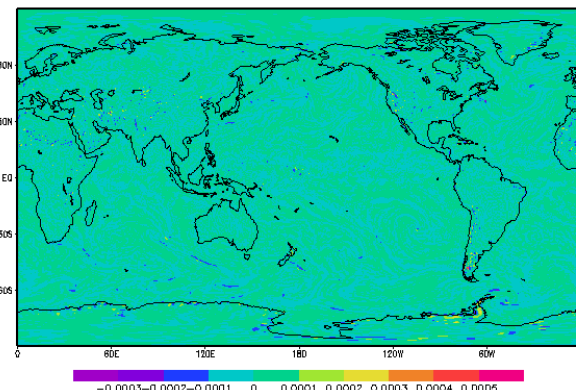
,qlnpp



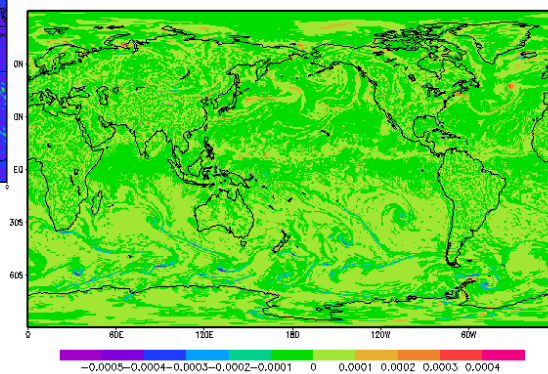
qtmpp



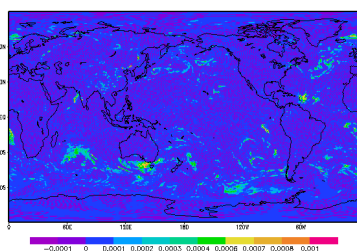
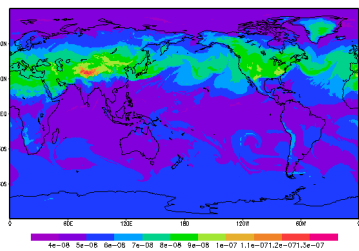
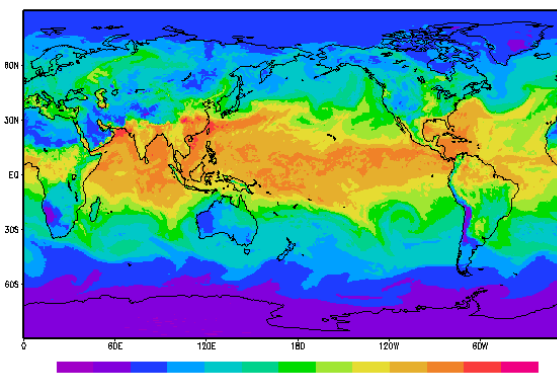
,qdivp



qrotp



,qqp







VegetationMaskSSiB

Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationMaskSSiB	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs  
sibmsk.form

**VegetationMaskSSiB**

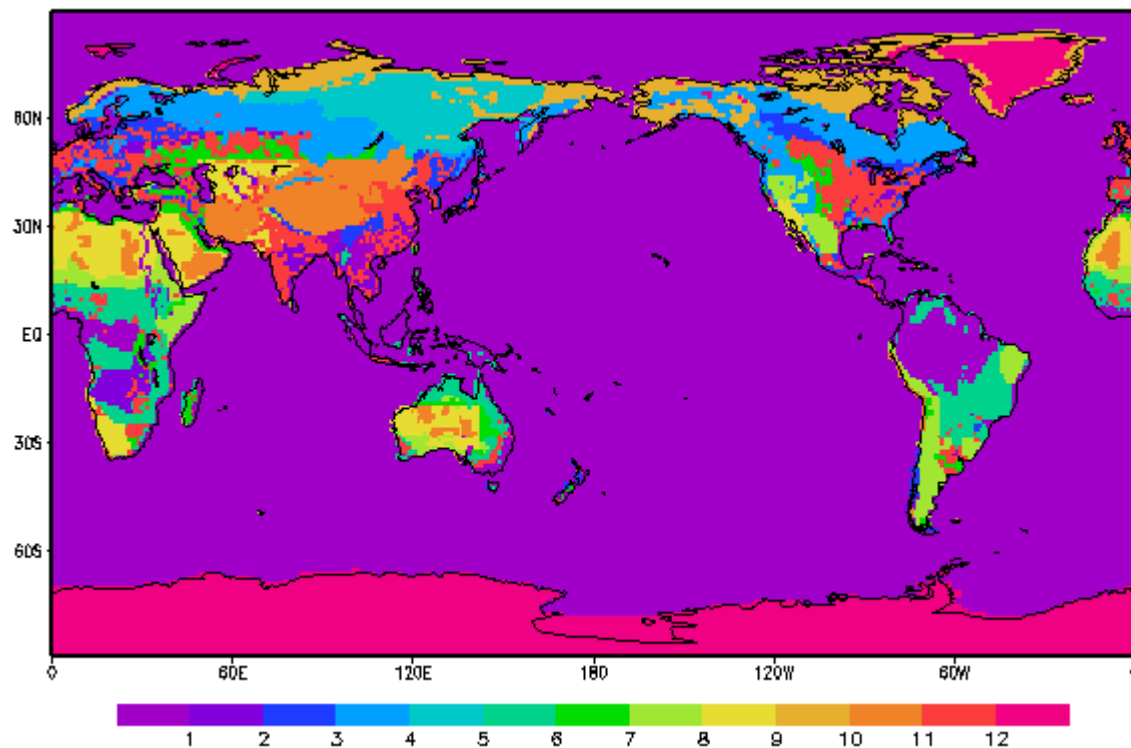
pre/dataout  
VegetationMaskClima.dat

pre/dataout  
VegetationMaskClimaG.dat  
VegetationMaskClimaG.ctl



VegetationMaskSSiB

pre/dataout  
VegetationMaskClimaG.dat  
VegetationMaskClimaG.cti



VARS 1  
VEGM 0 99 Vegetation Mask [No Dim]  
ENDVAR



VegetationMask

Nome	Data de modificaç...	Tipo	Tamanho
AreaIntegerInterp	07/11/2012 15:42	Arquivo F90	19 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationMask	05/03/2013 11:38	Arquivo F90	12 KB

pre/dataout  
VegetationMaskClima.dat

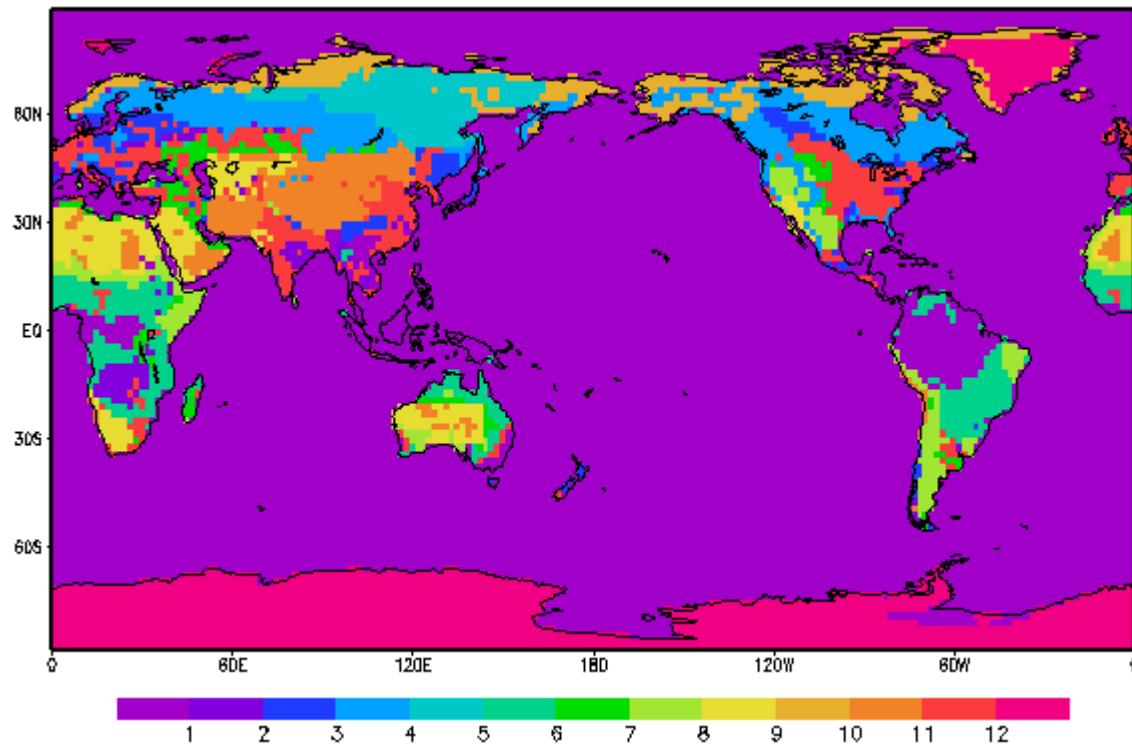
pre/dataout  
LandSeaMask.GZZZZ

**VegetationMask**

pre/dataout  
ModelLandSeaMask.GZZZZ

pre/dataout  
VegetationMask.GZZZZ  
VegetationMask.GZZZZ.cti

model/datain  
VegetationMask.GZZZZ






pre/dataout  
VegetationMask.GZZZZ  
VegetationMask.GZZZZ.cti

VAR 4  
LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]  
LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]  
VGMO 0 99 Vegetation Mask Before Fix [0 to 13]  
VEGM 0 99 Vegetation Mask For Model [0 to 13]  
ENDVAR 5



VegetationMaskSiB2Clima

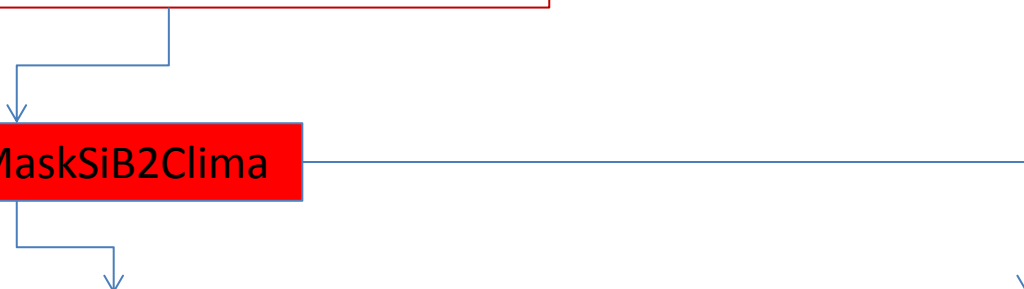
Nome	Data de modificaç...	Tipo	Tamanho
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 VegetationMaskSiB2Clima	07/11/2012 15:42	Arquivo F90	7 KB

pre/databcs  
sib2msk.form

**VegetationMaskSiB2Clima**

pre/dataout  
VegetationMaskClima2.dat

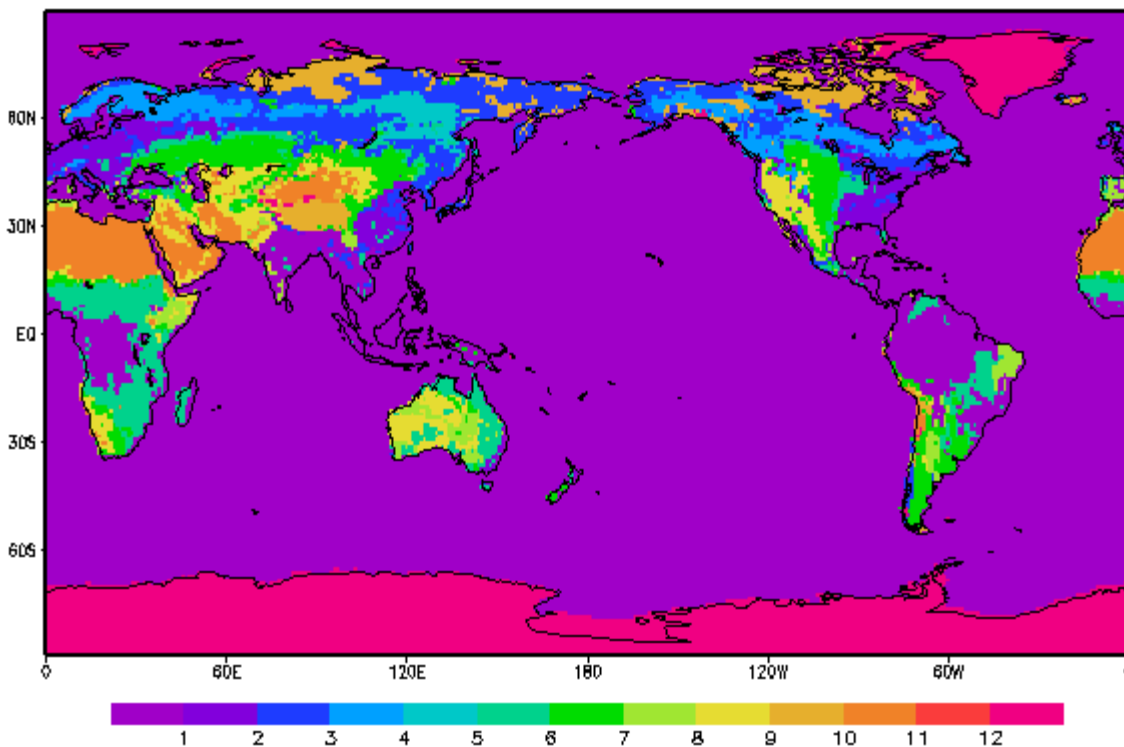
pre/dataout  
VegetationMaskClima2G.dat  
VegetationMaskClima2G.cti





VegetationMaskSiB2Clima






pre/dataout  
VegetationMaskClima2G.dat  
VegetationMaskClima2G.cti



VARS 1  
VEGM 0 99 Vegetation Mask [No Dim]  
ENDVARS



VegetationMaskSiB2

Nome	Data de modificaç...	Tipo	Tamanho
 AreaIntegerInterp	07/11/2012 15:42	Arquivo F90	19 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 VegetationMaskSiB2	07/11/2012 15:42	Arquivo F90	12 KB

pre/dataout  
VegetationMaskClima2.dat

pre/dataout  
LandSeaMask.GZZZZ

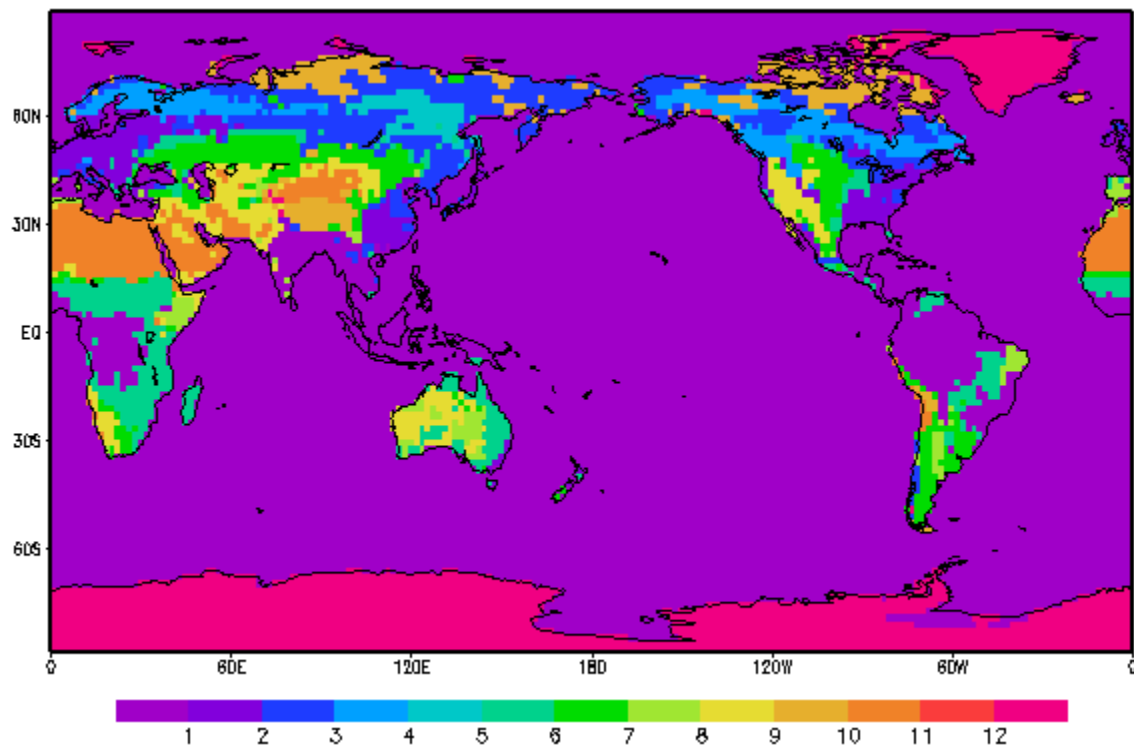
**VegetationMaskSiB2**

pre/dataout  
ModelLandSeaMask.GZZZZ

pre/dataout  
VegetationMaskSiB2.GZZZZ  
VegetationMaskSiB2.GZZZZ.cti

model/datain  
VegetationMaskSiB2.GZZZZ





pre/dataout  
VegetationMaskSiB2.GZZZZ  
VegetationMaskSiB2.GZZZZ.cti

VAR5 4  
LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]  
LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]  
VGMO 0 99 Vegetation Mask Before Fix [0 to 13]  
VEGM 0 99 Vegetation Mask For Model [0 to 13]  
ENDVAR5



VegetationMaskIBISCLima

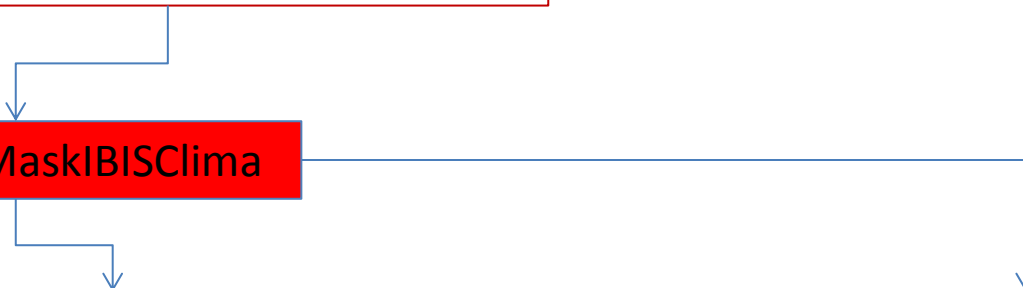
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationMaskIBISCLima	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs  
ibismsk.form

**VegetationMaskIBISCLima**

pre/dataout  
VegetationMaskIBISCLima.dat

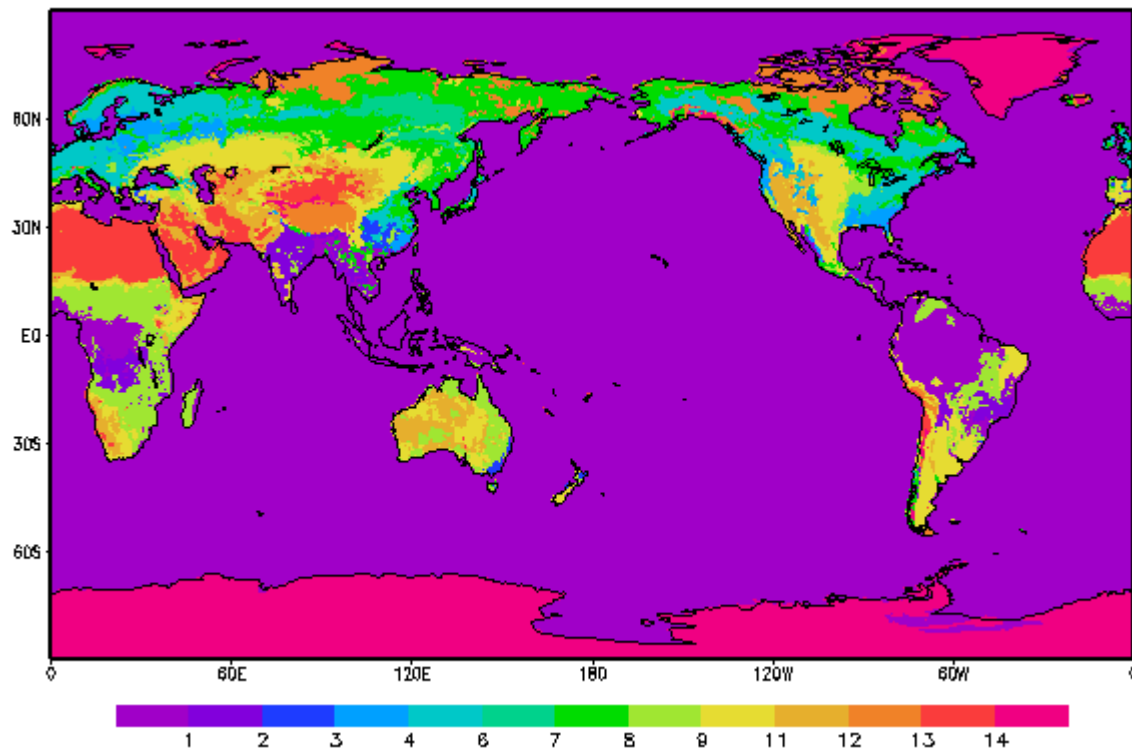
pre/dataout  
VegetationMaskIBISCLimaG.dat  
VegetationMaskIBISCLimaG.cti





VegetationMaskIBISClima






pre/dataout  
VegetationMaskIBISClimaG.dat  
VegetationMaskIBISClimaG.ctl



VAR 1  
VEGM 0 99 Vegetation Mask [No Dim]  
ENDVAR



VegetationMaskIBIS

Nome	Data de modificaç...	Tipo	Tamanho
 AreaIntegerInterp	05/03/2013 11:35	Arquivo F90	19 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 VegetationMaskIBIS	07/11/2012 15:42	Arquivo F90	12 KB

pre/dataout  
VegetationMaskIBISClima.dat

pre/dataout  
LandSeaMask.GZZZZ

**VegetationMaskIBIS**

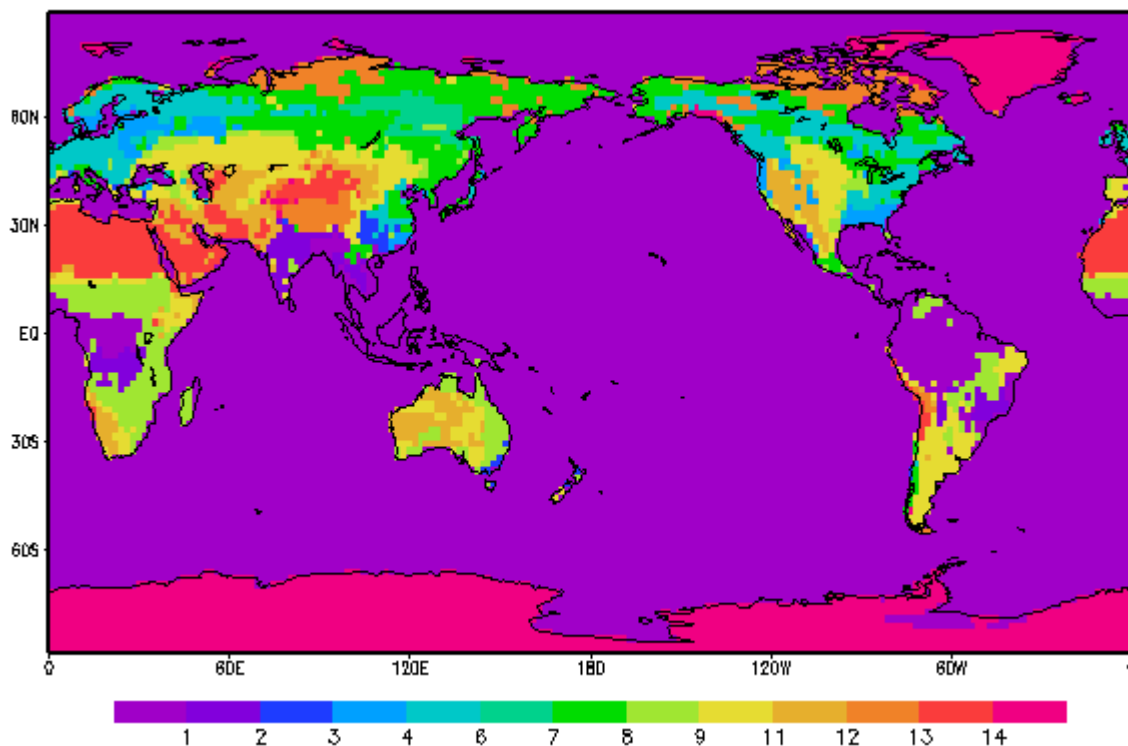
pre/dataout  
ModelLandSeaMask.GZZZZ

pre/dataout  
VegetationMaskIBIS.GZZZZ  
VegetationMaskIBIS.GZZZZ.cti

model/datain  
VegetationMaskIBIS.GZZZZ



pre/dataout  
VegetationMaskIBIS.GZZZZ  
VegetationMaskIBIS.GZZZZ.cti



VARS 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]

VGMO 0 99 Vegetation Mask Before Fix [0 to 15]

VEGM 0 99 Vegetation Mask For Model [0 to 15]

ENDVARS



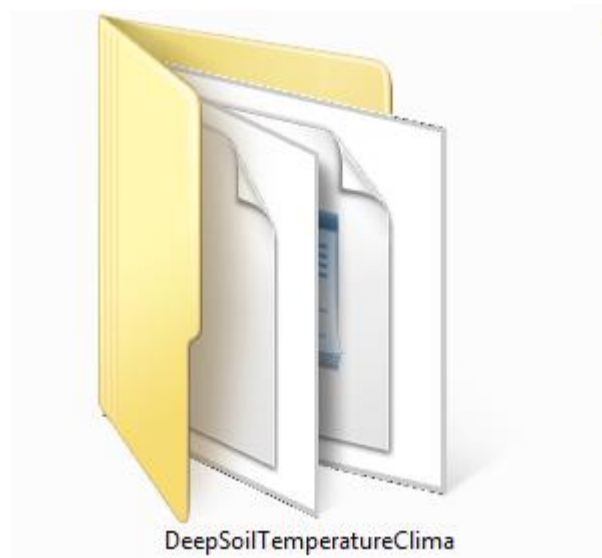
VegetationAlbedoSSiB

Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationAlbedoSSiB	07/11/2012 15:42	Arquivo F90	12 KB

pre/databcs  
sibalb.form

**VegetationAlbedoSSiB**

model/datain  
VegetationSSiB  
AlbedoSSiB



Nome	Data de modificaç...	Tipo	Tamanho
DeepSoilTemperatureClima	07/11/2012 15:42	Arquivo F90	5 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

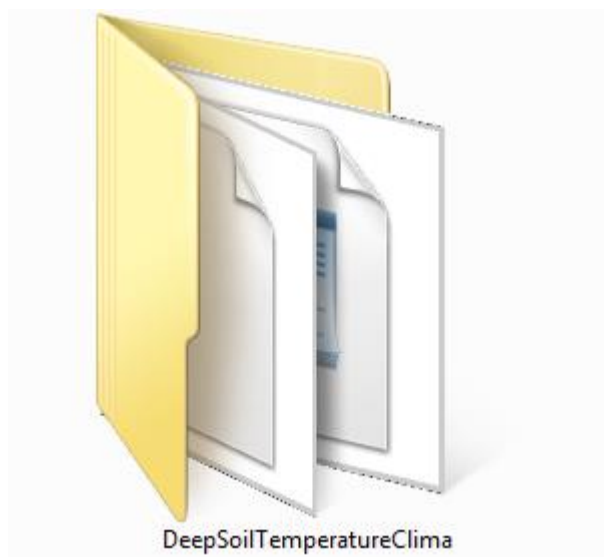
pre/databcs  
tgdeep.form

**DeepSoilTemperatureClima**

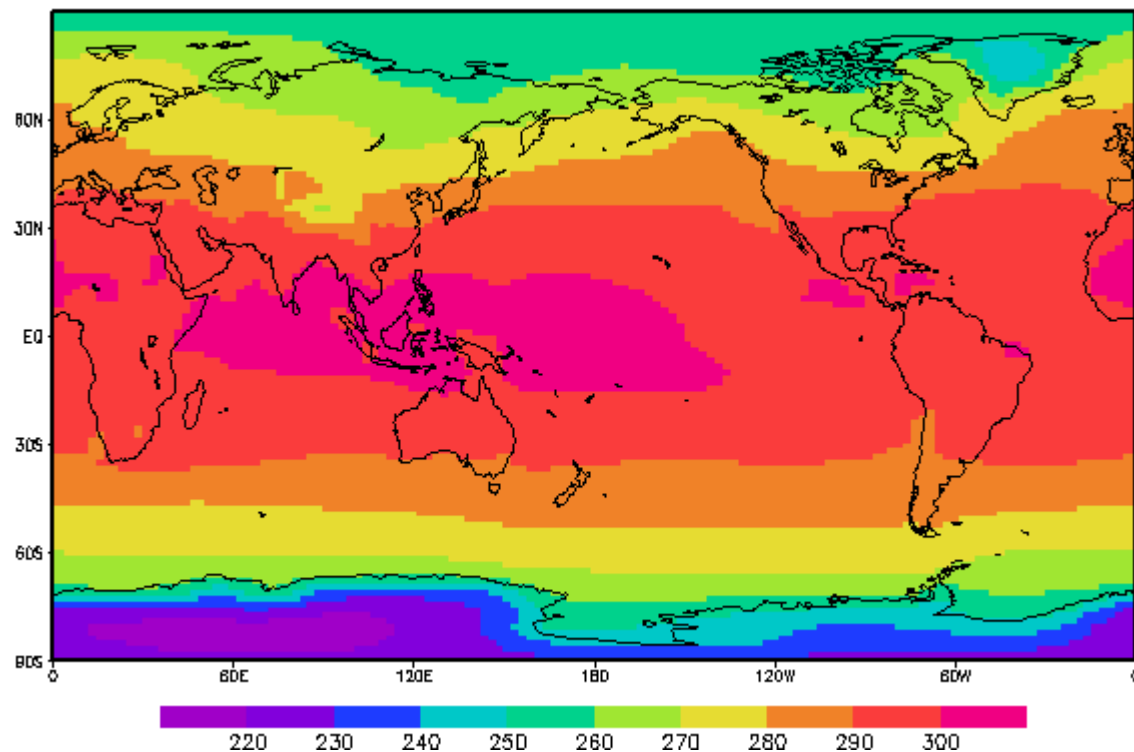
pre/dataout  
DeepSoilTemperatureClima.dat

pre/dataout  
DeepSoilTemperatureClima.dat  
DeepSoilTemperatureClima.cti











```
pre/dataout
DeepSoilTemperatureClima.dat
DeepSoilTemperatureClima.cti
```



```
VAR1 1
DSTP 0 99 Deep Soil Temperature [K]
ENDVAR1
```



DeepSoilTemperature

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 DeepSoilTemperature	07/11/2012 15:42	Arquivo F90	6 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB

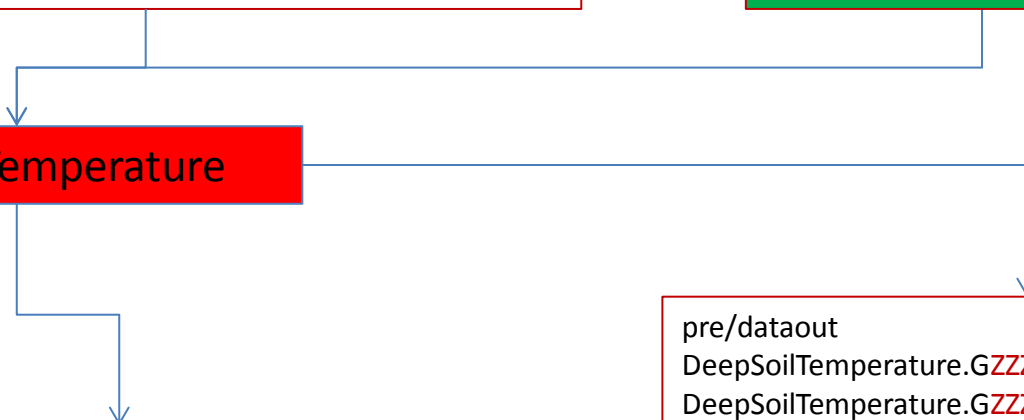
pre/dataout  
DeepSoilTemperatureClima.dat

pre/dataout  
LandSeaMask.GZZZZ

DeepSoilTemperature

pre/dataout  
DeepSoilTemperature.GZZZZ  
DeepSoilTemperature.GZZZZ.cti

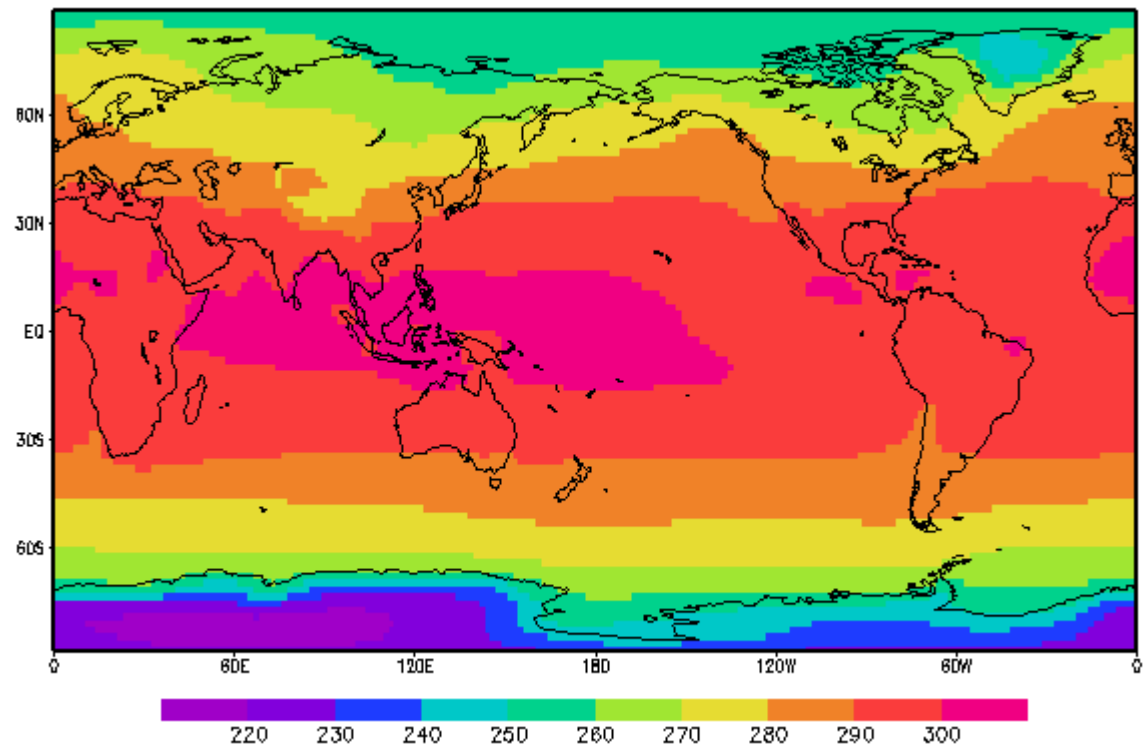
model/datain  
DeepSoilTemperatur.GZZZZ





DeepSoilTemperature

```
pre/dataout
DeepSoilTemperature.GZZZZ
DeepSoilTemperature.GZZZZ.cti
```



### VARS 3

DST1 0 99 Deep Soil Temperature [K]




DST2 0 99 Deep Soil Temperature [K]

DST3 0 99 Deep Soil Temperature [K]

ENDVARS



RoughnessLengthClima

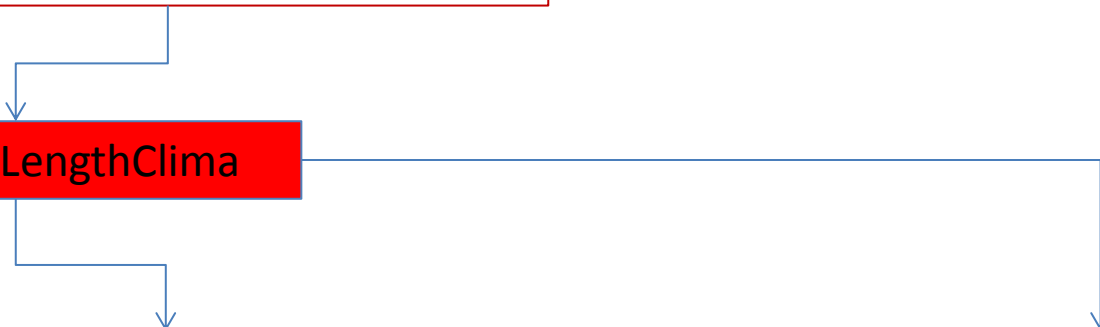
Nome	Data de modificaç...	Tipo	Tamanho
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 RoughnessLengthClima	07/11/2012 15:42	Arquivo F90	5 KB

pre/databcs  
zorlng.form

**RoughnessLengthClima**

pre/dataout  
RoughnessLengthClima.dat

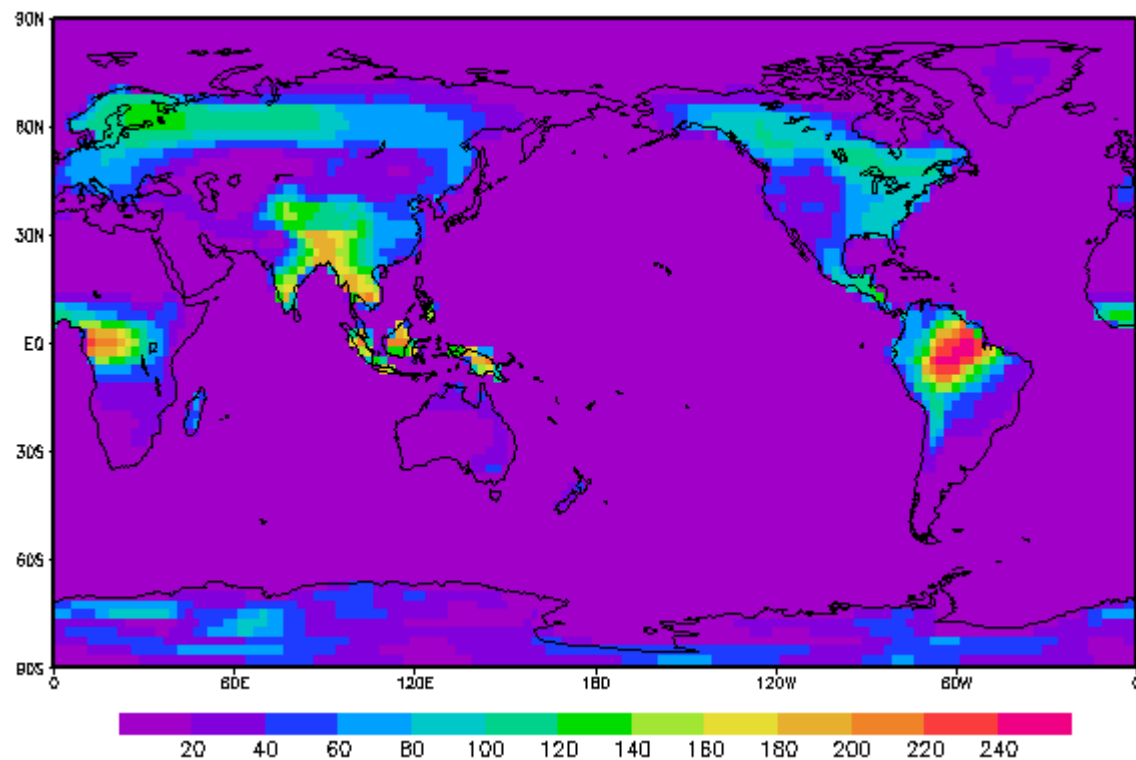
pre/dataout  
RoughnessLengthClima.cti





RoughnessLengthClima







pre/dataout  
RoughnessLengthClima.cti



VARS 1  
RGHL 0 99 Roughness Length [cm]  
ENDVARS



RoughnessLength

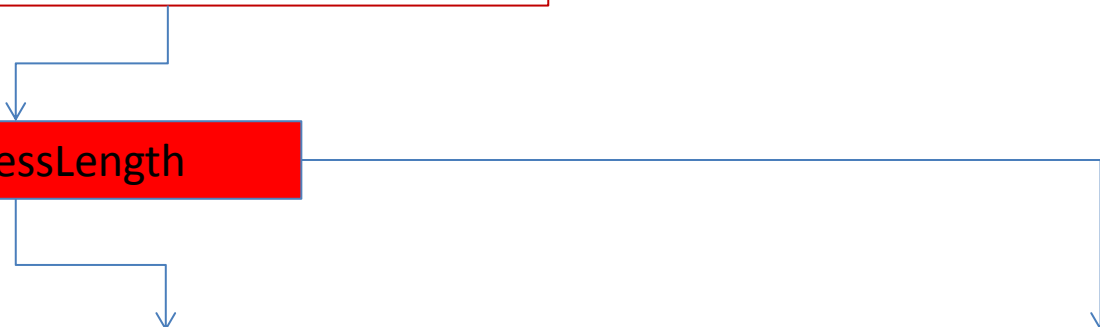
Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
 RoughnessLength	07/11/2012 15:42	Arquivo F90	5 KB

pre/dataout  
RoughnessLengthClima.dat

**RoughnessLength**

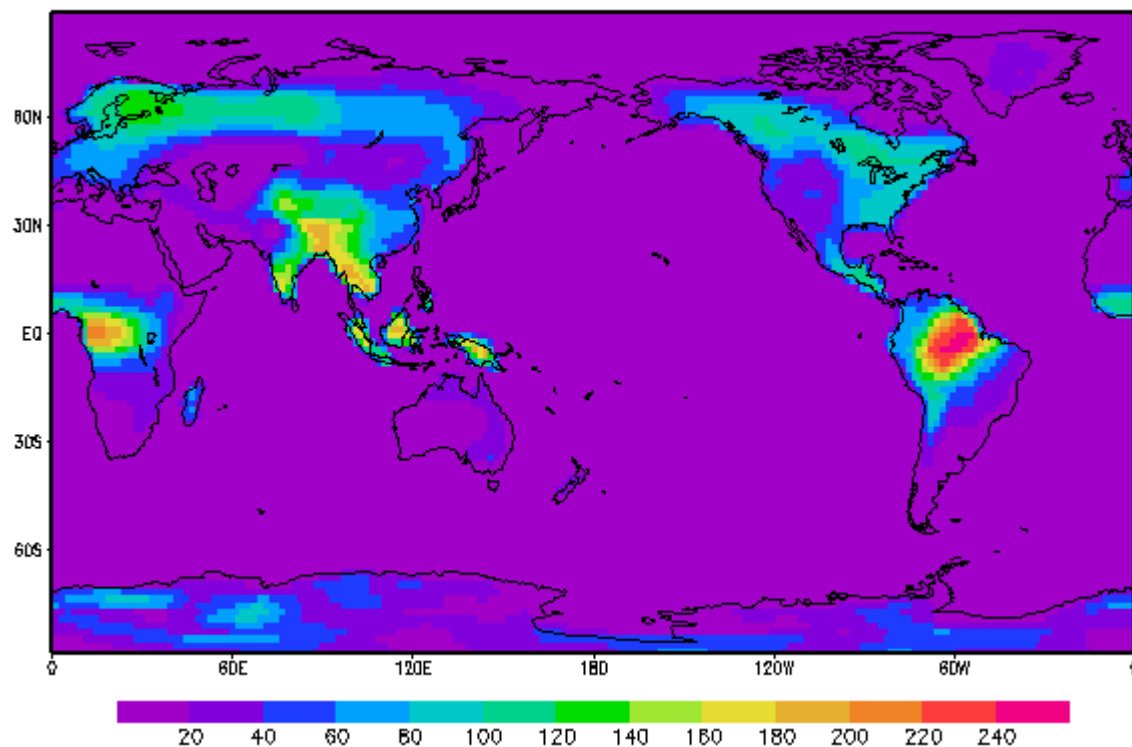
model/datain  
RoughnessLength

pre/dataout  
RoughnessLength. GZZZZ.ctl





pre/dataout  
RoughnessLength. GZZZZ.cti



VARS 1  
RGHL 0 99 Roughness Length [cm]  
ENDVARS





SoilMoistureClima

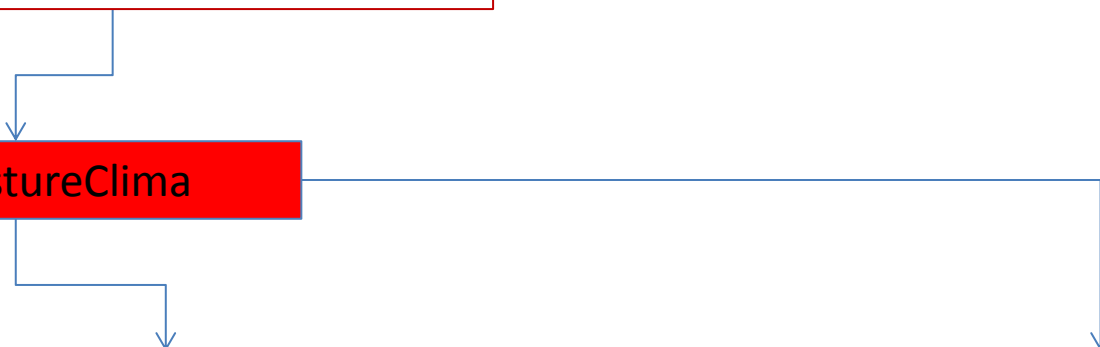
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
Makefile.una	07/11/2012 15:42	Arquivo UNA	1 KB
SoilMoistureClima	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs  
soilms.form

**SoilMoistureClima**

pre/dataout  
SoilMoistureClima.dat

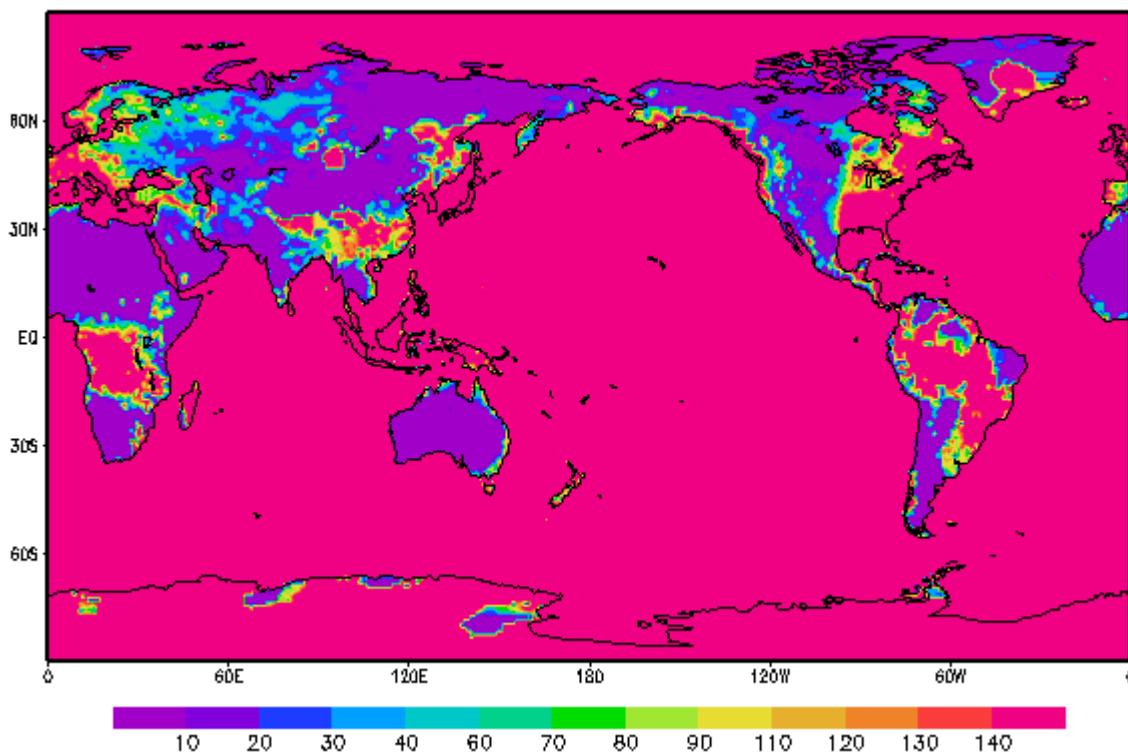
pre/dataout  
SoilMoistureClima.cti





SoilMoistureClima







pre/dataout  
SoilMoistureClima.cti



VAR 1  
SOMO 0 99 SoilMoisture [cm]  
ENDVAR



SoilMoisture

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
 SoilMoisture	07/11/2012 15:42	Arquivo F90	6 KB

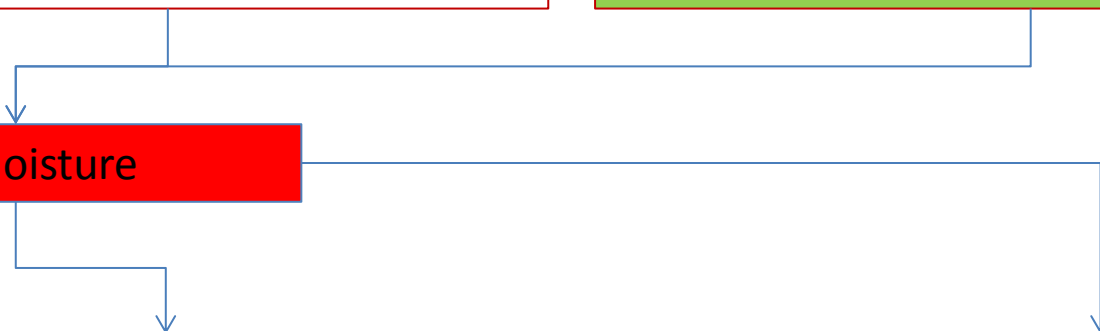
pre/dataout  
SoilMoisture Clima.dat

pre/dataout  
ModelLandSeaMask.GZZZZ

SoilMoisture

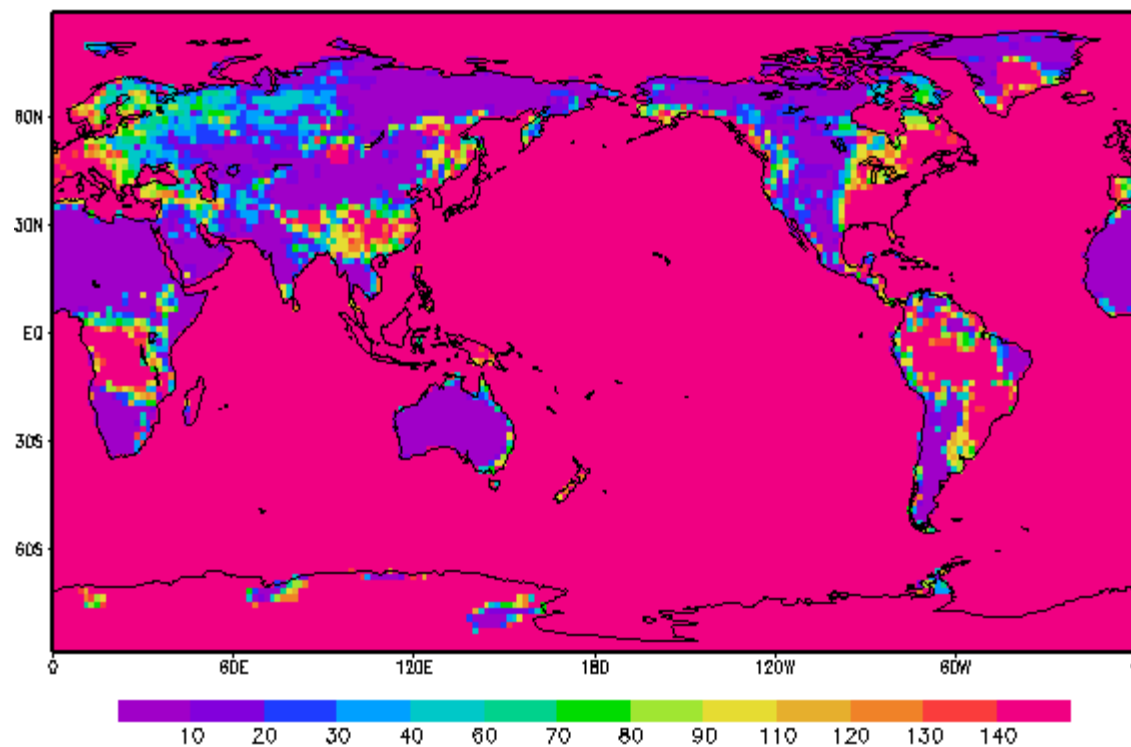
model/datain  
SoilMoisture.GZZZZ

pre/dataout  
SoilMoisture.GZZZZ.cti





SoilMoisture






pre/dataout  
SoilMoisture.GZZZ.cti

```

VARS 1
SOMO 0 99 SoilMoisture [cm]
ENDVARS
    
```



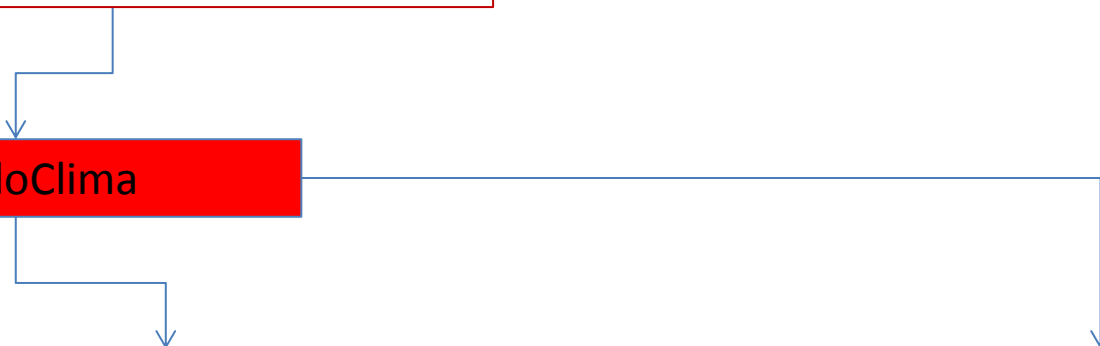
Nome	Data de modificaç...	Tipo	Tamanho
 AlbedoClima	07/11/2012 15:42	Arquivo F90	6 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/databcs  
albedo.form

**AlbedoClima**

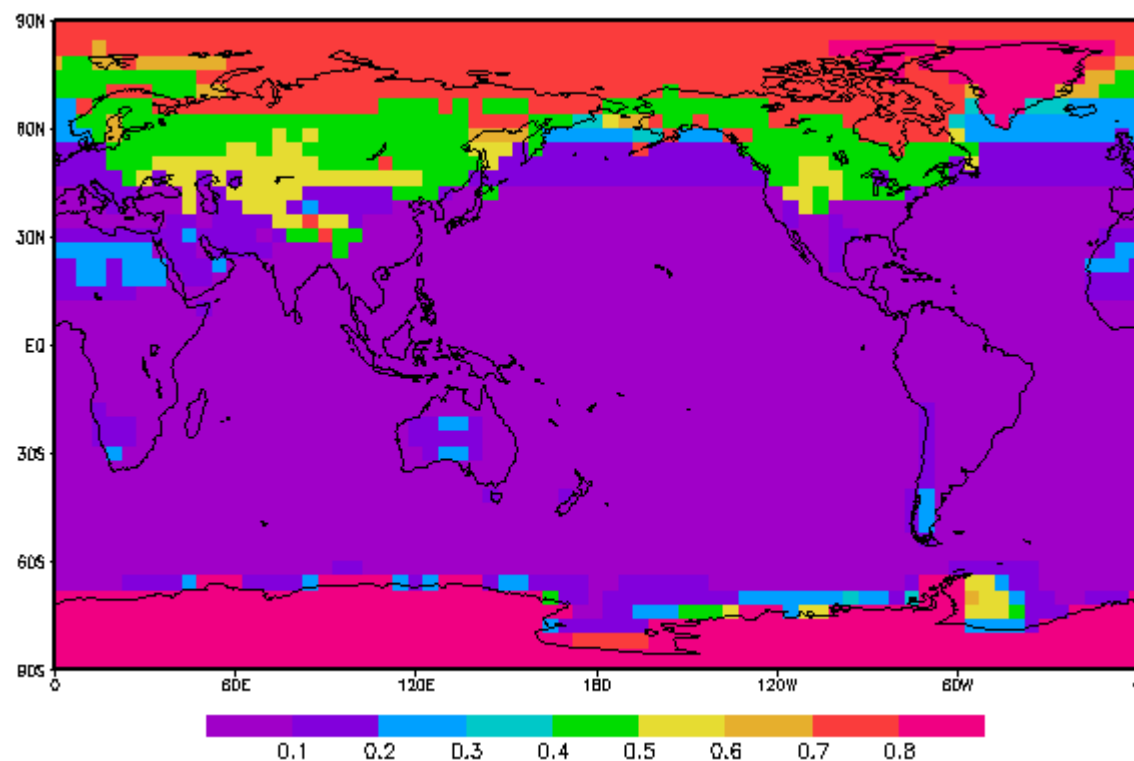
pre/dataout  
AlbedoClima.dat

pre/dataout  
AlbedoClima.cti





pre/dataout  
AlbedoClima.cti



```

VARS 1
ALBE 0 99 Albedo [No Dim]
ENDVARS
    
```





Albedo

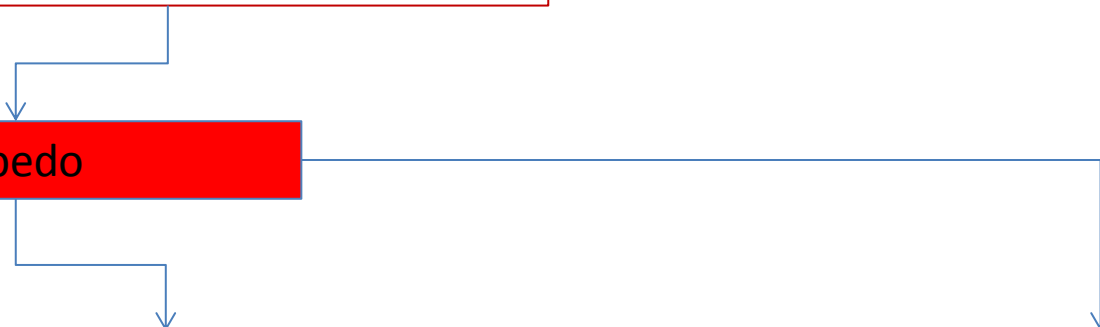
Nome	Data de modificaç...	Tipo	Tamanho
Albedo	07/11/2012 15:42	Arquivo F90	5 KB
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/dataout  
AlbedoClima.dat

**Albedo**

pre/dataout  
Albedo.GZZZZ

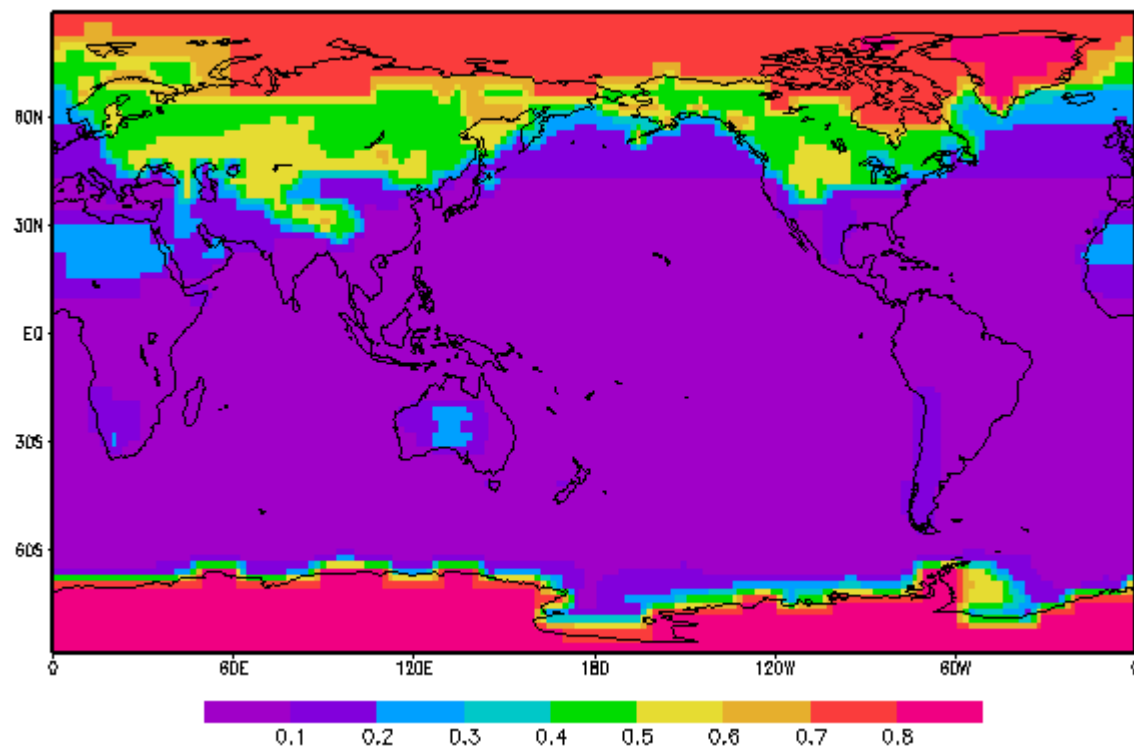
pre/dataout  
Albedo.GZZZZ.cti





Albedo

pre/dataout  
Albedo.GZZZZ.cti







VARS 1

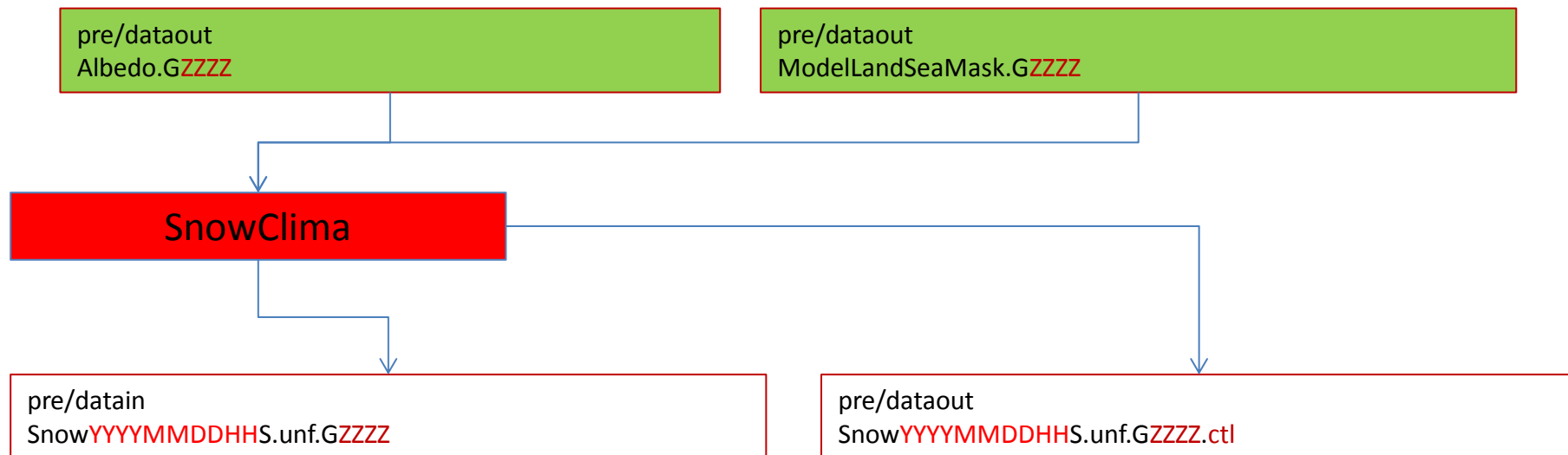
ALBE 0 99 Albedo [No Dim]

ENDVARS



SnowClima

Nome	Data de modificaç...	Tipo	Tamanho
 InputParameters	07/11/2012 15:41	Arquivo F90	5 KB
 Makefile	07/11/2012 15:41	Arquivo	1 KB
 Makefile.common	07/11/2012 15:41	Arquivo COMMON	1 KB
 SnowClima	07/11/2012 15:41	Arquivo F90	8 KB

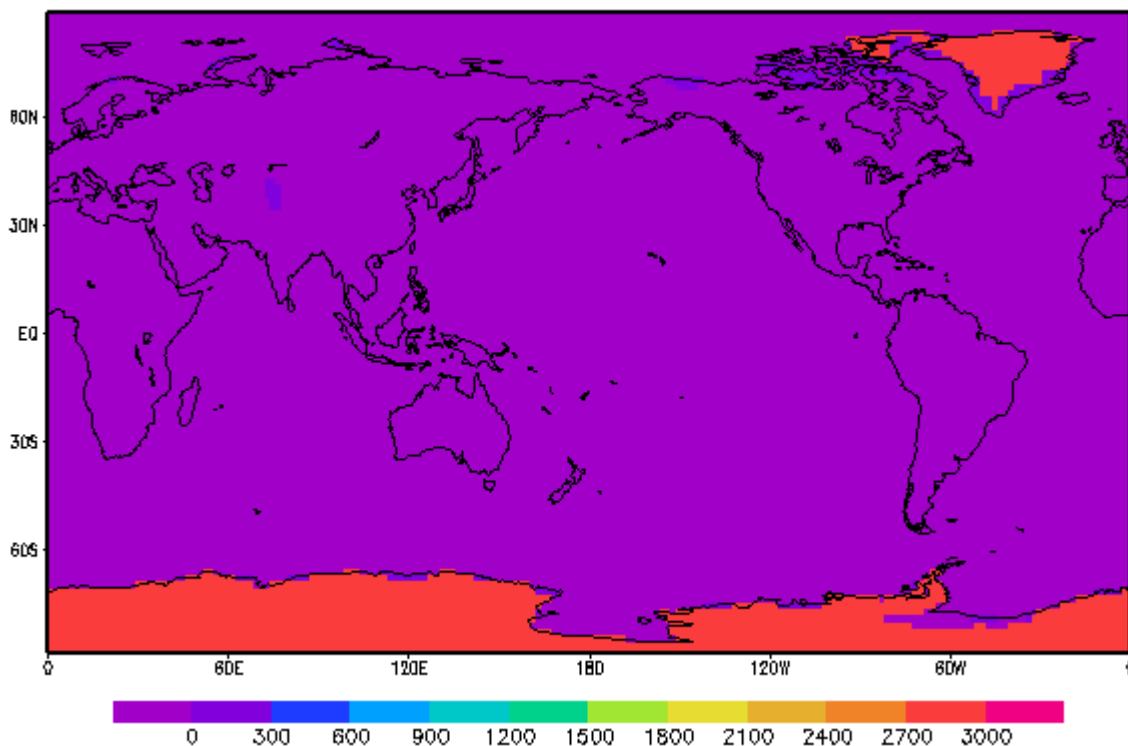




SnowClima

pre/dataout

SnowYYYYMMDDHHS.unf.GZZZZ.cti



VAR 1

SNOW 0 99 Climatological Snow Depth [kg/m²]

ENDVAR 1



SSTClima

Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:41	Arquivo F90	16 KB
FastFourierTransform	07/11/2012 15:41	Arquivo F90	33 KB
InputParameters	07/11/2012 15:41	Arquivo F90	8 KB
LegendreTransform	07/11/2012 15:41	Arquivo F90	25 KB
LinearInterpolation	07/11/2012 15:41	Arquivo F90	9 KB
Makefile	07/11/2012 15:41	Arquivo	2 KB
Makefile.common	07/11/2012 15:41	Arquivo COMMON	2 KB
SpectralGrid	07/11/2012 15:41	Arquivo F90	2 KB
SSTClima	07/11/2012 15:41	Arquivo F90	11 KB

pre/databcs  
ersst.form

pre/dataout  
ModelLandSeaMask.GZZZ

SSTClima

model/datain  
GANLNMCMYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/datain  
SSTClimaYYYYMMDDS.unf.GZZZ

pre/dataout  
SSTClimaYYYYMMDDS.unf.GZZZ  
SSTClimaYYYYMMDDS.unf.GZZZ.cti



pre/dataout

SSTClimaYYYYMMDDS.unf.GZZZZ

SSTClimaYYYYMMDDS.unf.GZZZZ.cti

VAR 4

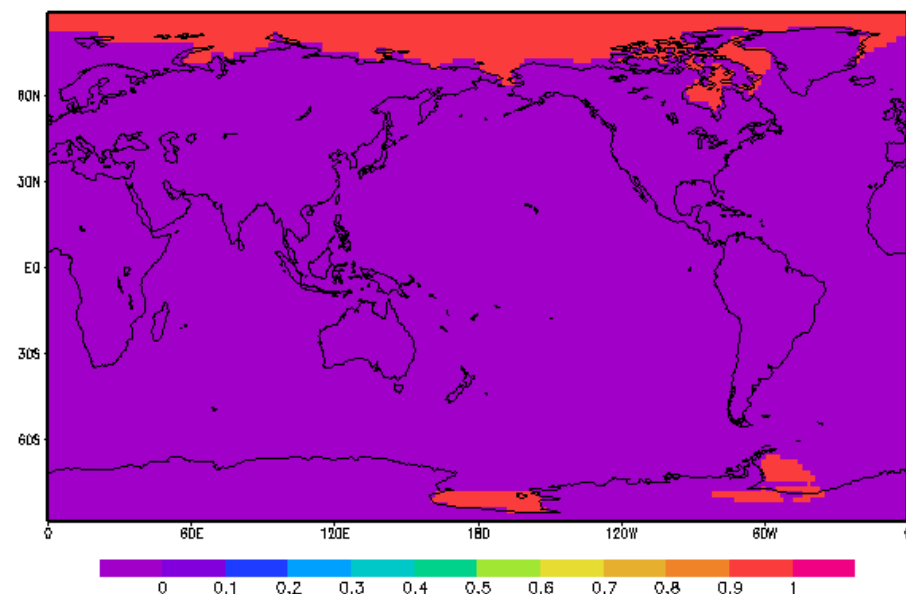
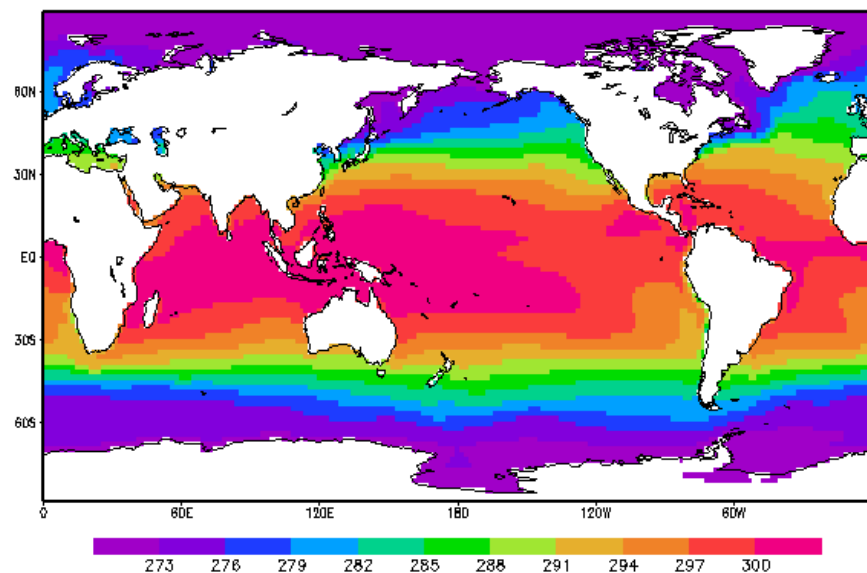
TOPO 0 99 Model Recomposed Topography [m]

LSMK 0 99 Land Sea Mask [1:Sea -1:Land]

SIMK 0 99 Sea Ice Mask [1:SeaIce 0:NoIce]

SSTC 0 99 Climatological SST Topography Corrected [K]

ENDVAR 5







Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
SSTWeeklyNCEP	07/11/2012 15:42	Arquivo F90	6 KB

pre/datain  
gdas1.ThhZ.sstgrd.YYYYMMDDHH

**SSTWeeklyNCEP**

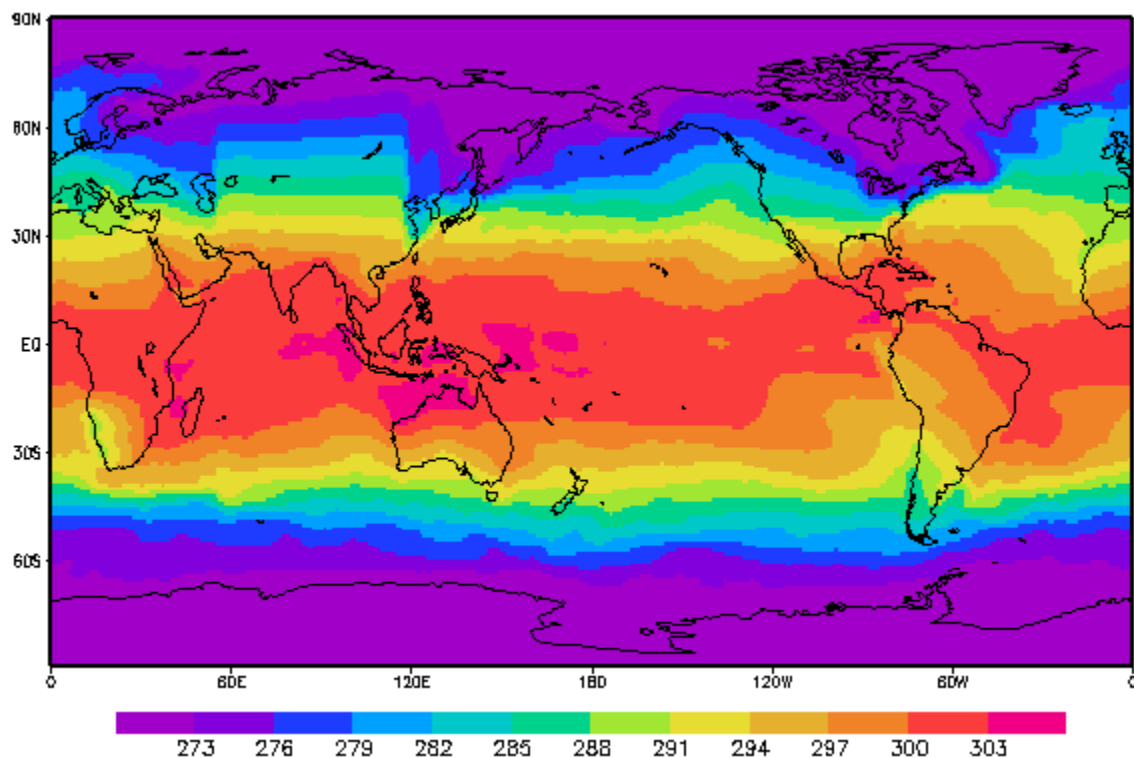
pre/dataout  
SSTWeekly.YYYYMMDD

pre/dataout  
SSTWeeklyYYYYMMDD.cti



pre/dataout










SSTWeeklyYYYYMMDD.cti



VARS 1

SSTW 0 99 NCEP Weekly SST [K]

ENDVARS

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 FastFourierTransform	07/11/2012 15:42	Arquivo F90	33 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	9 KB
 LegendreTransform	07/11/2012 15:42	Arquivo F90	25 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	2 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
 SpectralGrid	07/11/2012 15:42	Arquivo F90	2 KB
 SSTWeekly	07/11/2012 15:42	Arquivo F90	15 KB



SSTWeekly

pre/databcs  
sstaoi.form

pre/dataout  
ModelLandSeaMask.GZZZ  
SSTWeekly.YYYYMMDD

SSTWeekly

model/datain  
GANLNMCMYYYYMMDDHHS.unf.TQYYLZZZ

pre/datain  
SSTWeeklyYYYYMMDD.GZZZ

pre/dataout  
SSTWeeklyYYYYMMDD.GZZZ  
SSTWeeklyYYYYMMDD.GZZZ.cti



SSTWeekly

pre/dataout

**SSTWeekly**YYYYMMDD.GZZZZ

**SSTWeekly**YYYYMMDD.GZZZZ.cti

VARs 4

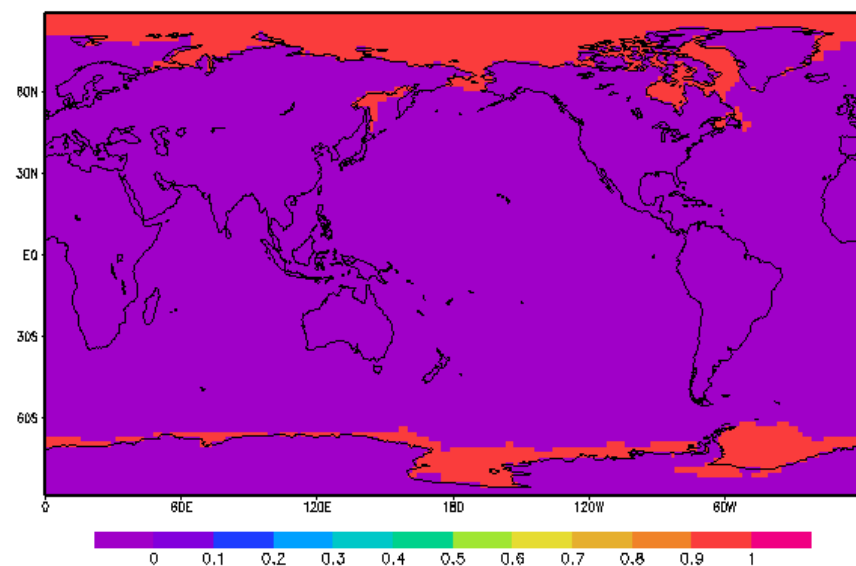
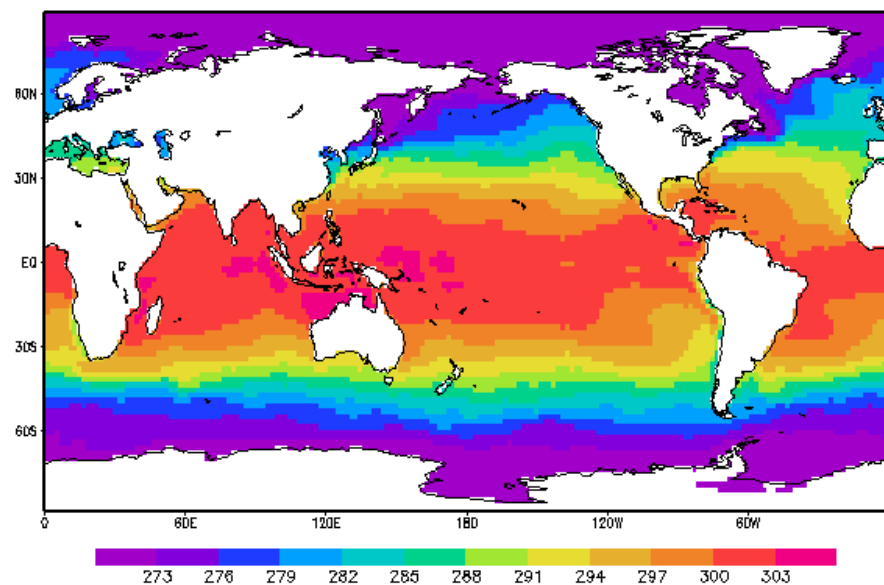
TOPO 0 99 Model Recomposed Topography [m]

LSMK 0 99 Land Sea Mask [1:Sea -1:Land]

SIMK 0 99 Sea Ice Mask [1:SeaIce 0:NoIce]

SSTW 0 99 Weekly SST Topography Corrected [K]

ENDVARs





SNOWWeeklyNCEP

Nome

Data de modificaç...

Tipo

Tamanho



Makefile

06/03/2013 10:13

Arquivo

1 KB



Makefile.common

06/03/2013 10:20

Arquivo COMMON

1 KB



SNOWWeeklyNCEP

06/03/2013 11:27

Arquivo F90

6 KB

pre/datain  
gdas1.ThhZ.snogrd.YYYYMMDDHH

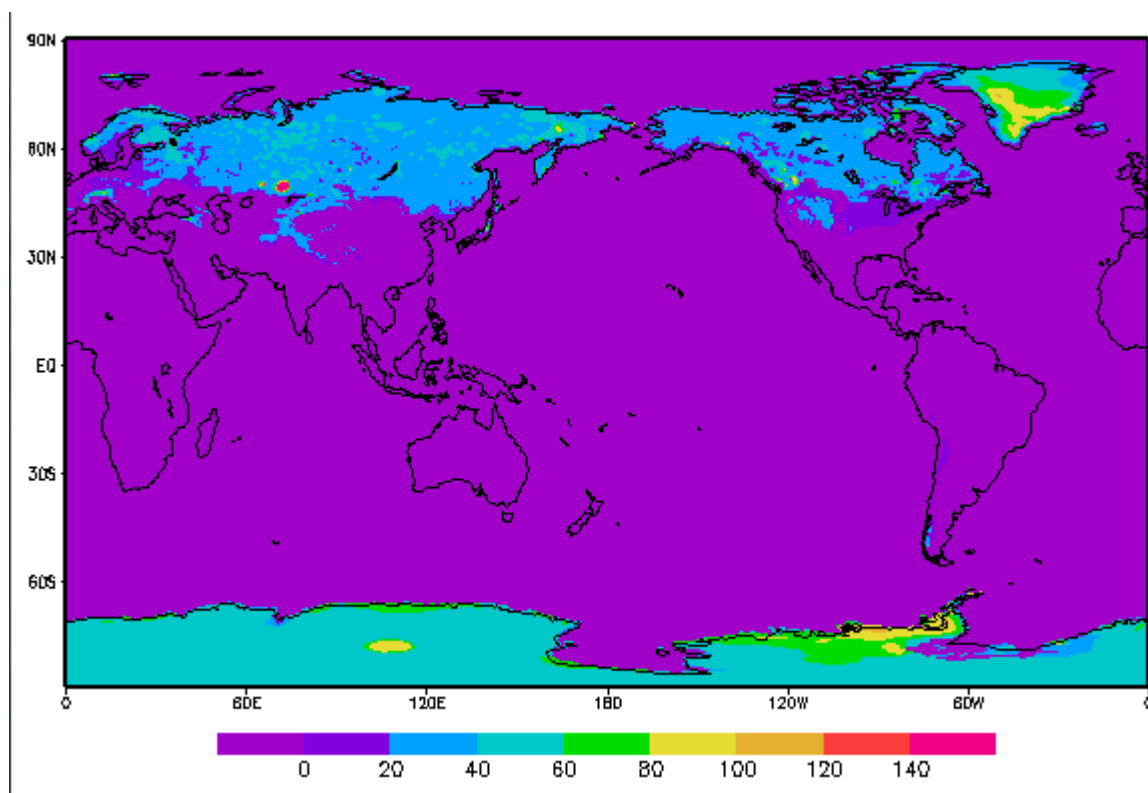
SNOWWeeklyNCEP

pre/dataout  
SNOWWeekly.YYYYMMDD

pre/dataout  
SNOWWeekly.YYYYMMDD.ctl



pre/dataout  
SNOWWeekly.YYYYMMDD.cti



VARS 1  
SNOW 0 99 NCEP Weekly SNOW [kg/m2]  
ENDVARS





SNOWWeekly

Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	06/03/2013 13:44	Arquivo F90	16 KB
InputParameters	06/03/2013 14:23	Arquivo F90	4 KB
LinearInterpolation	06/03/2013 13:44	Arquivo F90	9 KB
Makefile	06/03/2013 13:44	Arquivo	1 KB
Makefile.common	06/03/2013 13:59	Arquivo COMMON	2 KB
SNOWWeekly	06/03/2013 14:35	Arquivo F90	6 KB

pre/dataout  
**SNOWWeekly.YYYYMMDD**

**SNOWWeekly**

model/datain  
**SNOWWeekly.YYYYMMDD.GZZZZ**

pre/dataout  
**SNOWWeekly.YYYYMMDD.GZZZZ**  
**SNOWWeekly.YYYYMMDD.GZZZZ.cti**

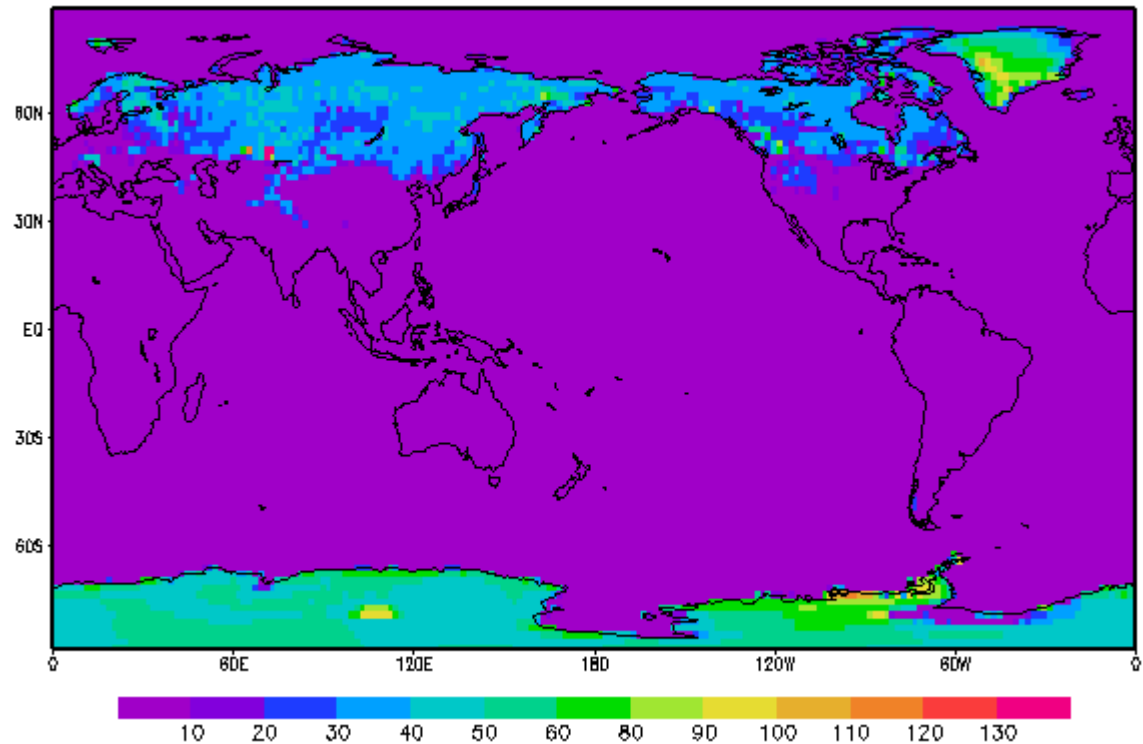


SNOWWeekly

pre/dataout

SNOWWeeklyYYYYMMDD.GZZZZ

SNOWWeeklyYYYYMMDD.GZZZZ.cti






VARS 1

snow 0 99 SNOWWeekly [kg/m3]

ENDVARS



Nome	Data de modificaç...	Tipo	Tamanho
 CLimaSoilMoistureClima	07/11/2012 15:42	Arquivo F90	5 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/databcs  
sib2soilms.form

**ClimaSoilMoistureClima**

pre/dataout  
**CLimaSoilMoistureClima.dat**

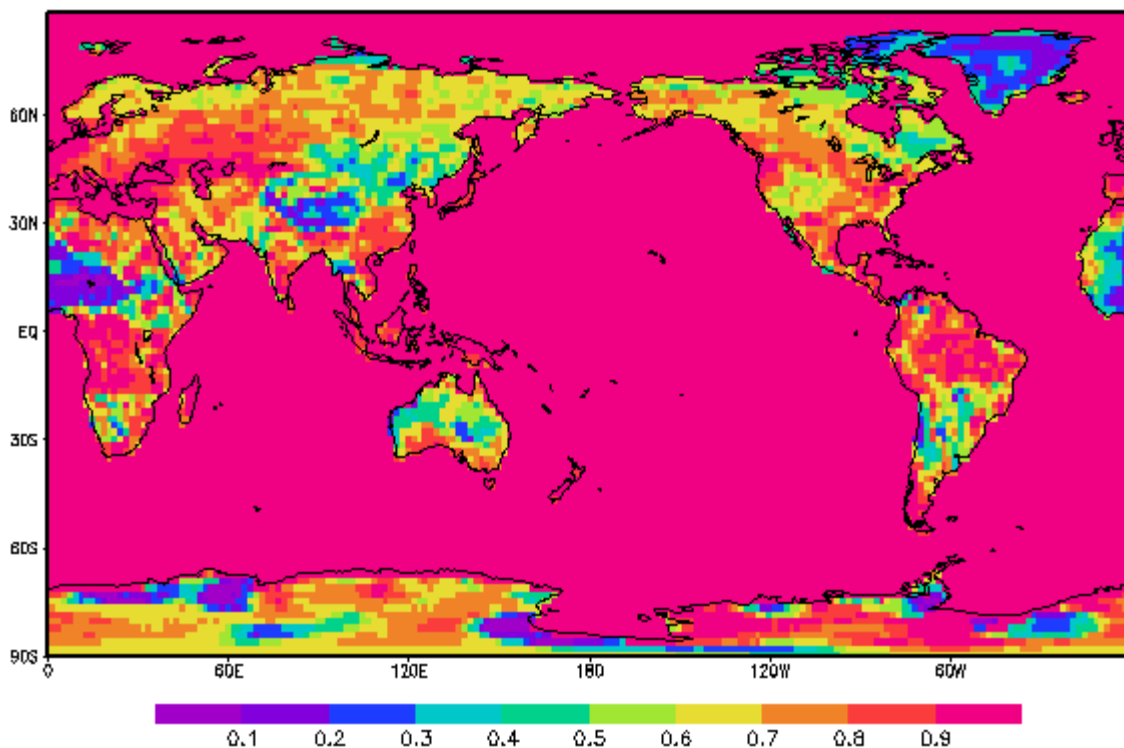
pre/dataout  
**CLimaSoilMoistureClima.ctl**



ClimaSoilMoistureClima

[pre/dataout](#)

[ClimaSoilMoistureClima.cti](#)



VAR 1  
soilm1 3 99 CLimaSoilMoistureClima [%]  
ENDVAR 1



CLimaSoilMoisture

Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
CLimaSoilMoisture	07/11/2012 15:42	Arquivo F90	6 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB

pre/dataout

**CLimaSoilMoistureClima.dat**

**ClimasoilMoisture**

model/datain

**CLimaSoilMoisture.GZZZZ**

pre/dataout

**CLimaSoilMoisture.GZZZZ**

**CLimaSoilMoisture.GZZZZ.cti**

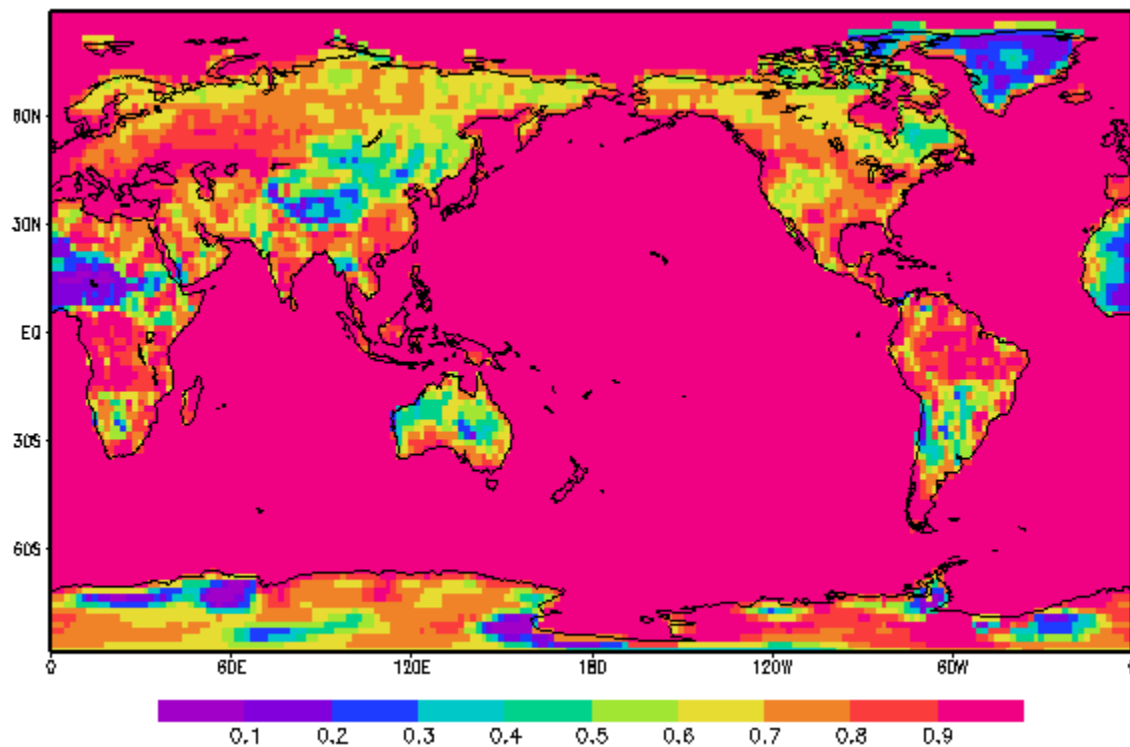


ClimaSoilMoisture

pre/dataout

**ClimaSoilMoisture.GZZZ**

**ClimaSoilMoisture.GZZZ.ctl**



VARS 1

soilms 3 99 SoilMoisture [C]

ENDVARS





Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
TemperatureClima	07/11/2012 15:42	Arquivo F90	5 KB

pre/databcs  
clmt.form







**TemperatureClima**

pre/dataout  
**TemperatureClima.dat**

pre/dataout  
**TemperatureClima.ctl**



Temperature

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
 Temperature	07/11/2012 15:42	Arquivo F90	5 KB




pre/dataout  
TemperatureClima.dat

Temperature

model/datain  
Temperature.GZZZZ

pre/dataout  
Temperature.GZZZZ  
Temperature.GZZZZ.cti



Nome	Data de modificaç...	Tipo	Tamanho
 DeltaTempColdestClima	07/11/2012 15:42	Arquivo F90	5 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/databcs  
deltat.form







**DeltaTempColdestClima**

pre/dataout  
**DeltaTempColdestClima.dat**

pre/dataout  
**DeltaTempColdestClima.ctl**



DeltaTempColdest

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 DeltaTempColdest	07/11/2012 15:42	Arquivo F90	6 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB

pre/dataout  
DeltaTempColdestClima.dat

DeltaTempColdest

model/datain  
DeltaTempColdest.GZZZZ

pre/dataout  
DeltaTempColdest.GZZZZ  
DeltaTempColdest.GZZZZ.cti



Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:41	Arquivo	1 KB
Makefile.common	07/11/2012 15:41	Arquivo COMMON	1 KB
NDVIClima	07/11/2012 15:41	Arquivo F90	5 KB

pre/databcs  
ndviclm.form

**NDVIClima**

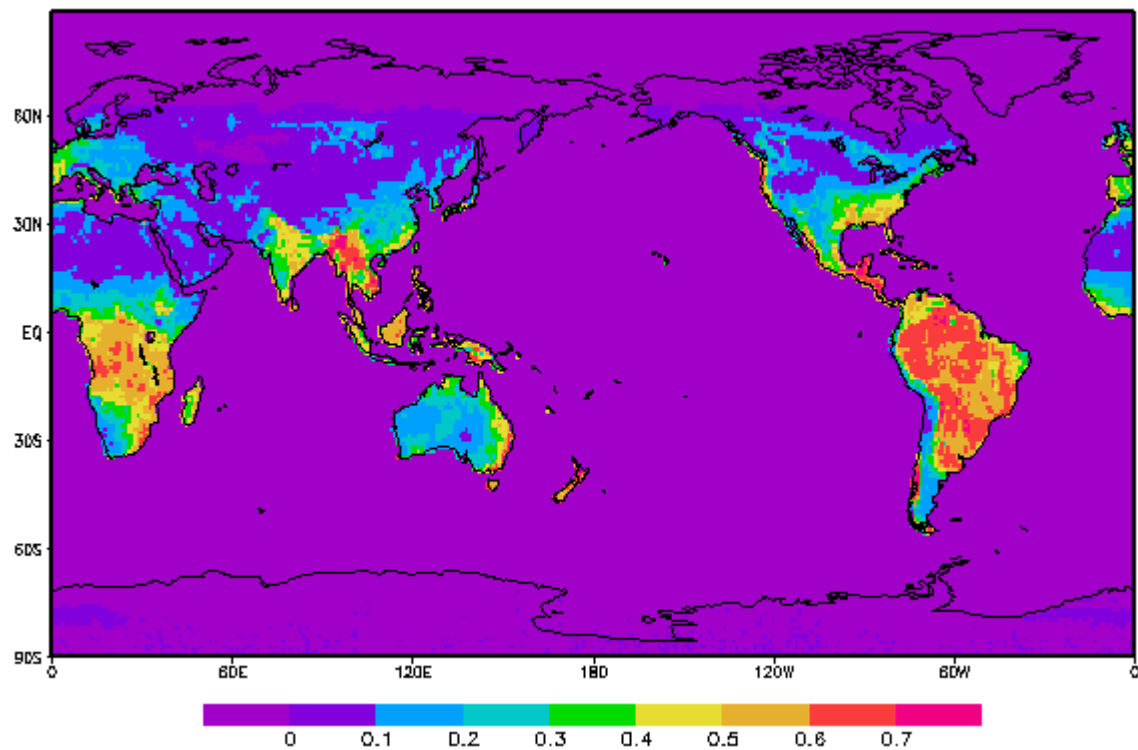
pre/dataout  
**NDVIClima.dat**

pre/dataout  
**NDVIClimactl**



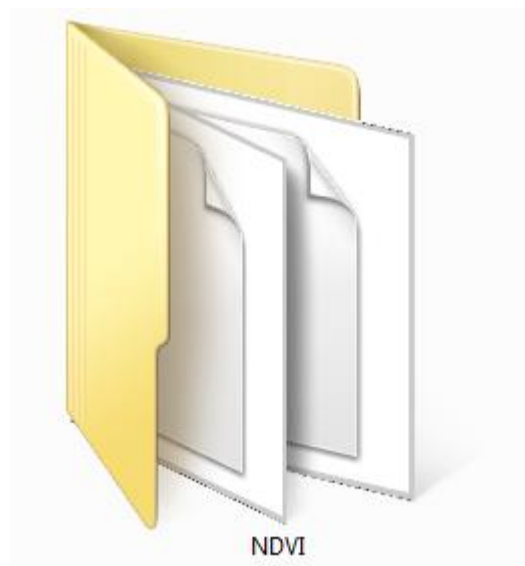
pre/dataout






NDVIClima.cti



VARS 1  
ndvi 0 99 NDVI [%]  
ENDVARS





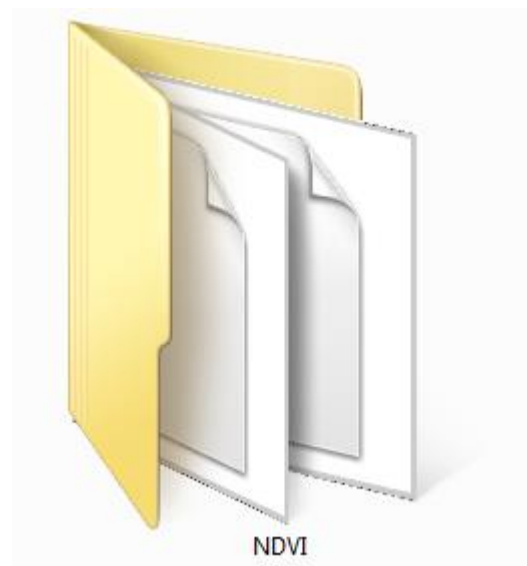
Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
 LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 NDVI	07/11/2012 15:42	Arquivo F90	5 KB

pre/dataout  
NDVIClima.dat

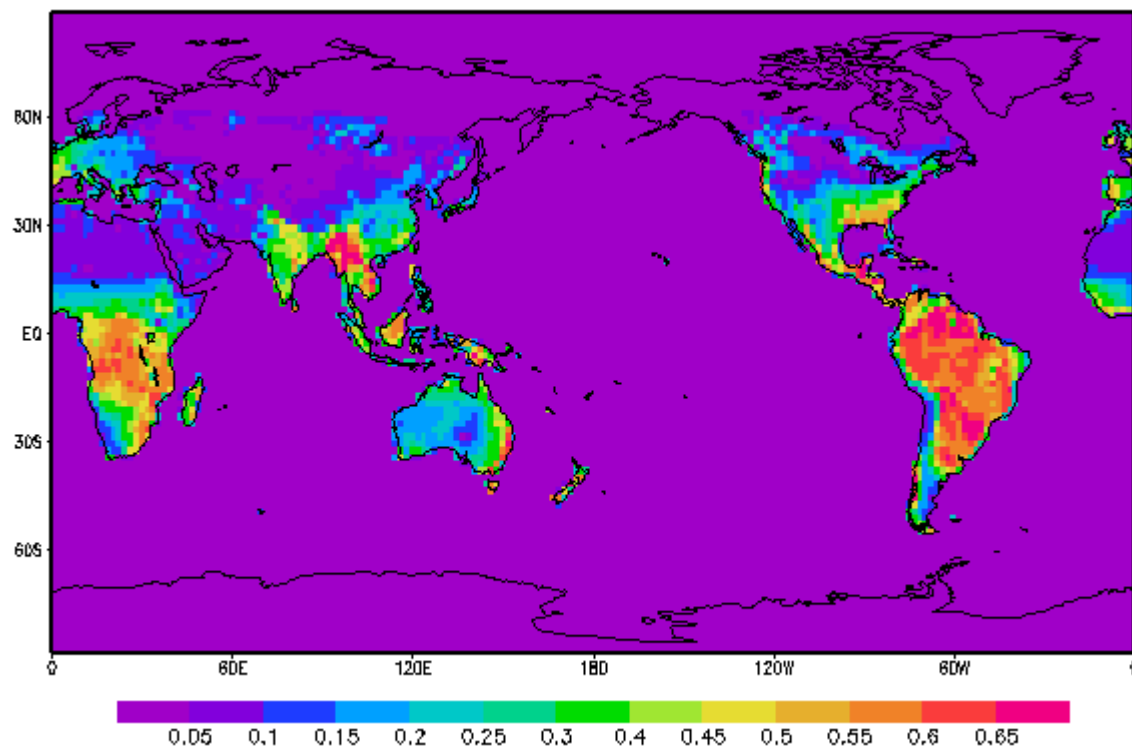
NDVI

model/datain  
NDVI.GZZZZ

pre/dataout  
NDVI.GZZZZ  
NDVI.GZZZZ.cti



pre/dataout  
NDVI.GZZZZ  
NDVI.GZZZZ.cti



VARS 1

ndvi 0 99 NDVI [%]

ENDVARS



Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceClayMaskIBISCLima	07/11/2012 15:42	Arquivo F90	7 KB

pre/databcs  
claymsk.form

**PorceClayMaskIBISCLima**

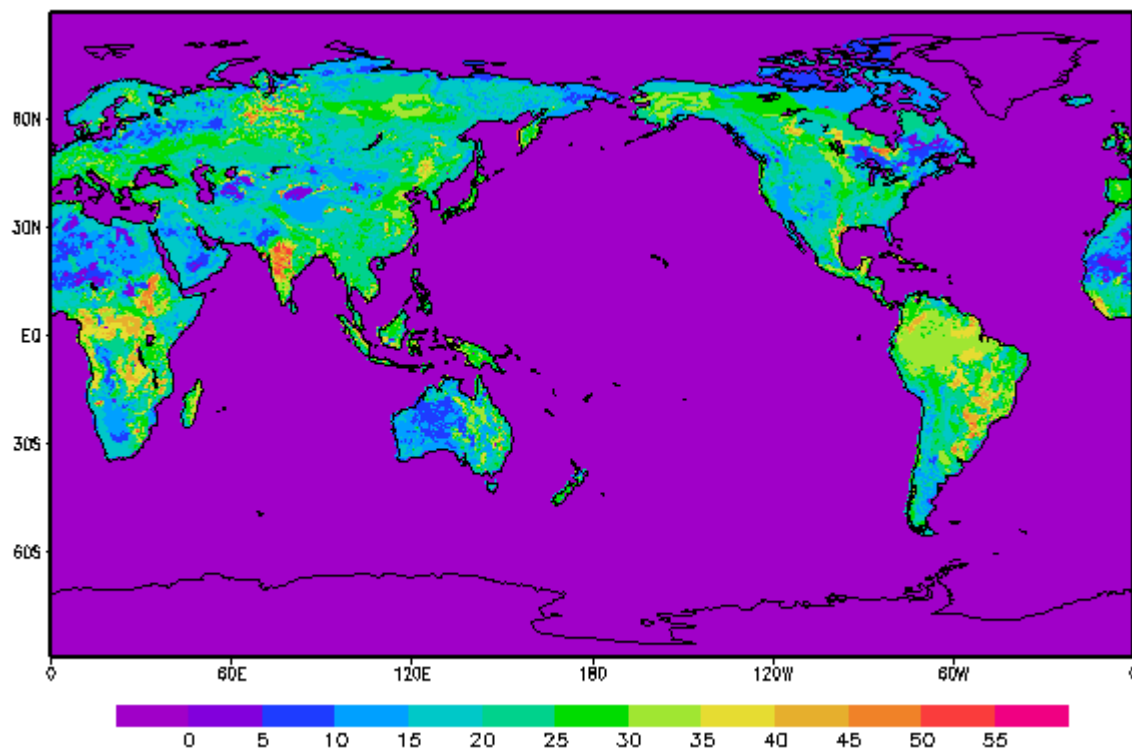
pre/dataout  
**PorceClayMaskIBISCLima.dat**

pre/dataout  
PorceClayMaskIBISCLimaG.dat  
**PorceClayMaskIBISCLimaG.cti**



PorceClayMaskIBISCLima

pre/dataout  
PorceClayMaskIBISCLimaG.dat  
[PorceClayMaskIBISCLimaG.cti](#)



VARs 1  
clay6 99 PorcClay Mask [No Dim]  
ENDVARs



PorceClayMaskIBIS

Nome	Data de modificaç...	Tipo	Tamanho
AreaIntegerInterp	05/03/2013 15:01	Arquivo F90	19 K
InputParameters	05/03/2013 14:41	Arquivo F90	5 K
Makefile	07/11/2012 15:42	Arquivo	1 K
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 K
PorceClayMaskIBIS	05/03/2013 14:58	Arquivo F90	14 K

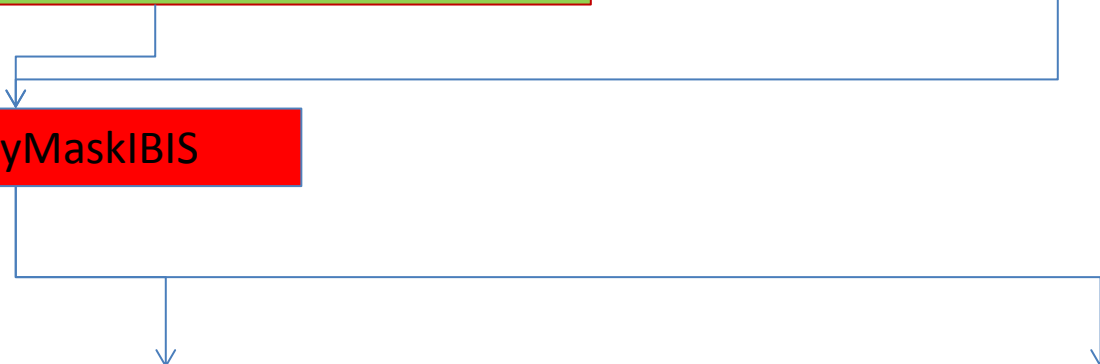
pre/dataout  
LandSeaMaskGZZZZ

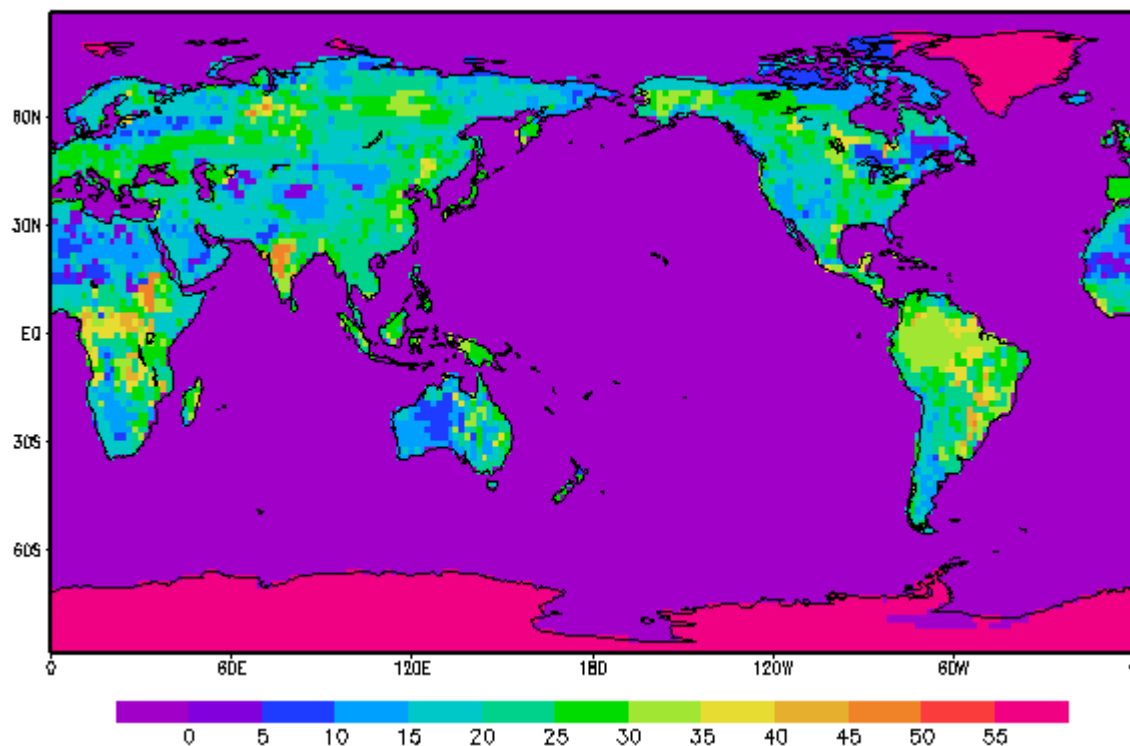
pre/dataout  
PorceClayMaskIBISclima.dat

PorceClayMaskIBIS

model/datain  
PorceClayMaskIBIS.GZZZZ

pre/dataout  
ModelLandSeaMask.GZZZZ  
PorceClayMaskIBIS.GZZZZ  
PorceClayMaskIBIS.GZZZZ.cti





pre/dataout  
PorceClayMaskIBIS.GZZZZ  
PorceClayMaskIBIS.GZZZZ.cti

VARs 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]

clayO 6 99 Vegetation PorceClayMaskIBIS.Before Fix [0 to 100]




clayM 6 99 PorceClayMaskIBIS Mask For Model [0 to 100]

ENDVARs





PorceClayMaskSiB2Clima

Nome	Data de modificaç...	Tipo	Tamanho
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 PorceClayMaskSiB2Clima	05/03/2013 15:22	Arquivo F90	7 KB

pre/databcs  
claymsk.form

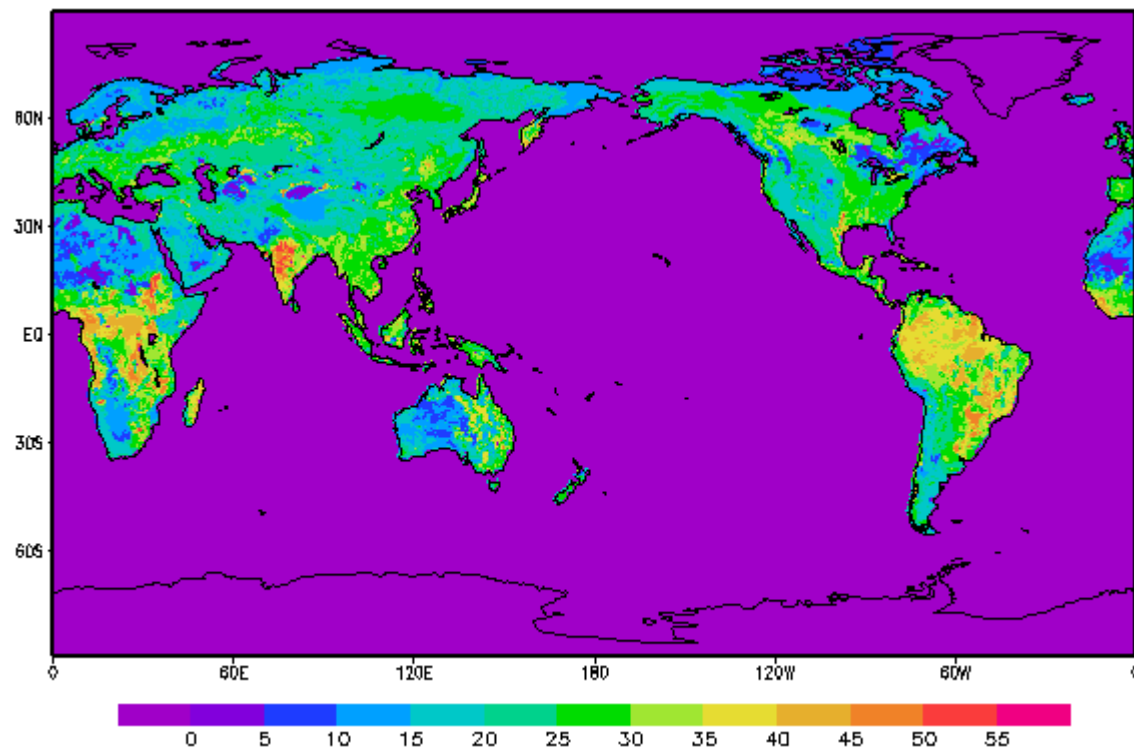
**PorceClayMaskSiB2Clima**

pre/dataout  
**PorceClayMaskSiB2Clima.dat**

pre/dataout  
PorceClayMaskSiB2ClimaG.dat  
**PorceClayMaskSiB2ClimaG.cti**



PorceClayMaskSiB2Clima



pre/dataout  
PorceClayMaskSiB2ClimaG.dat  
[PorceClayMaskSiB2ClimaG.cti](#)

VAR 1  
clayM 1 99 PorcClay Mask [No Dim]  
ENDVAR



Nome	Data de modificaç...	Tipo	Tamanho
AreaIntegerInterp	05/03/2013 17:45	Arquivo F90	19 KB
InputParameters	07/11/2012 15:42	Arquivo F90	5 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceClayMaskSiB2	05/03/2013 17:44	Arquivo F90	13 KB

pre/dataout  
LandSeaMaskGZZZZ

pre/dataout  
PorceClayMaskSiB2Clima.dat

PorceClayMaskSiB2

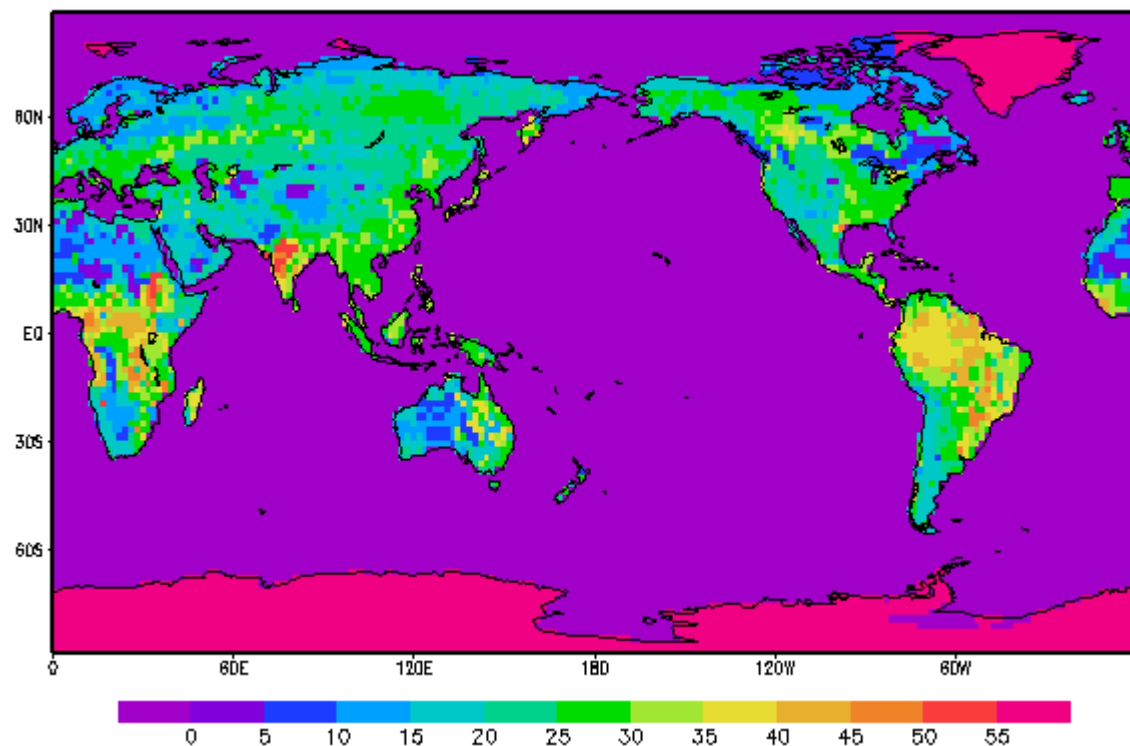
model/datain  
PorceClayMaskSiB2.GZZZZ

pre/dataout  
ModelLandSeaMask.GZZZZ  
PorceClayMaskSiB2GZZZZ  
PorceClayMaskSiB2.GZZZZ.cti



PorceClayMaskSiB2

```
pre/dataout
PorceClayMaskSiB2GZZZZ
PorceClayMaskSiB2.GZZZZ.cti
```



VARs 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]

VGMO 6 99 PorceClayMaskSiB2 Mask Before Fix [0 to 100]

VEGM 6 99 PorceClayMaskSiB2 Mask For Model [0 to 100]

ENDVARs



PorceSandMaskIBISclima

Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceSandMaskIBISclima	05/03/2013 17:49	Arquivo F90	7 KB

pre/databcs  
sandmsk.form

**PorceSandMaskIBISclima**

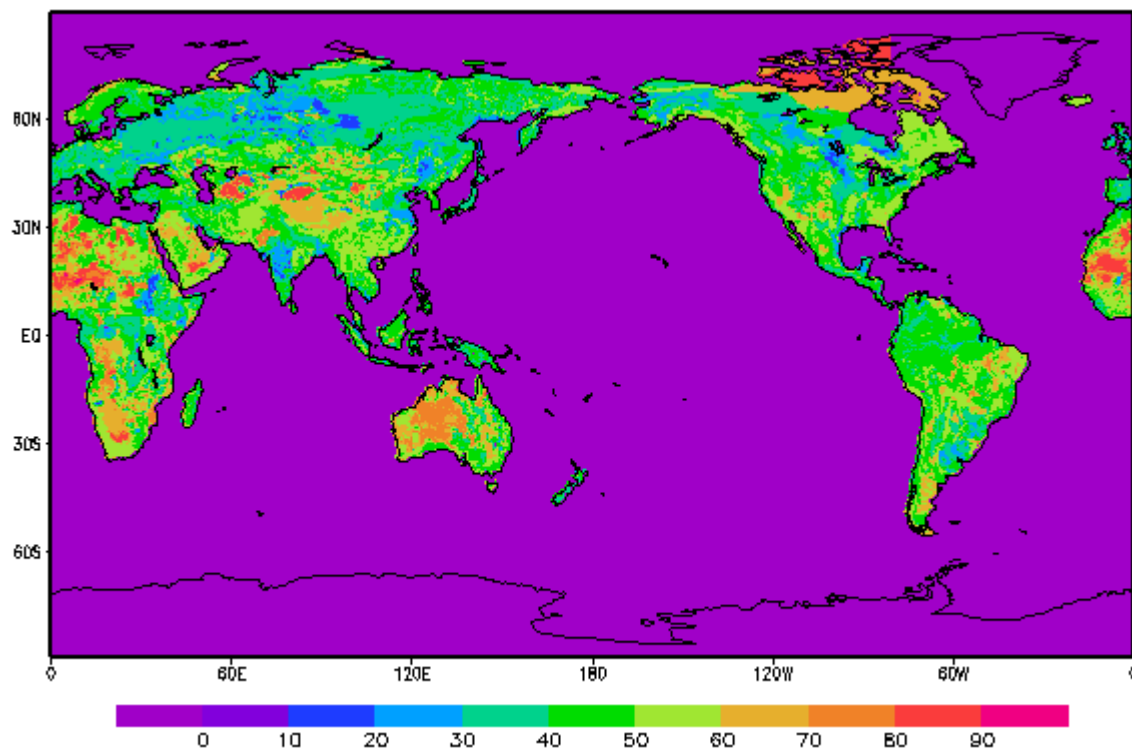
pre/dataout  
**PorceSandMaskIBISclima.dat**

pre/dataout  
PorceSandMaskIBISclimaG.dat  
**PorceSandMaskIBISclimaG.cti**



PorceSandMaskIBISCLima

pre/dataout  
PorceSandMaskIBISCLimaG.dat  
[PorceSandMaskIBISCLimaG.cti](#)








VAR 1  
Sand 6 99 PorcSand Mask [No Dim]  
ENDVAR





PorceSandMaskIBIS

Nome	Data de modificaç...	Tipo	Tamanho
 AreaIntegerInterp	05/03/2013 17:55	Arquivo F90	19 KB
 InputParameters	07/11/2012 15:42	Arquivo F90	5 KB
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 PorceSandMaskIBIS	05/03/2013 17:54	Arquivo F90	13 KB

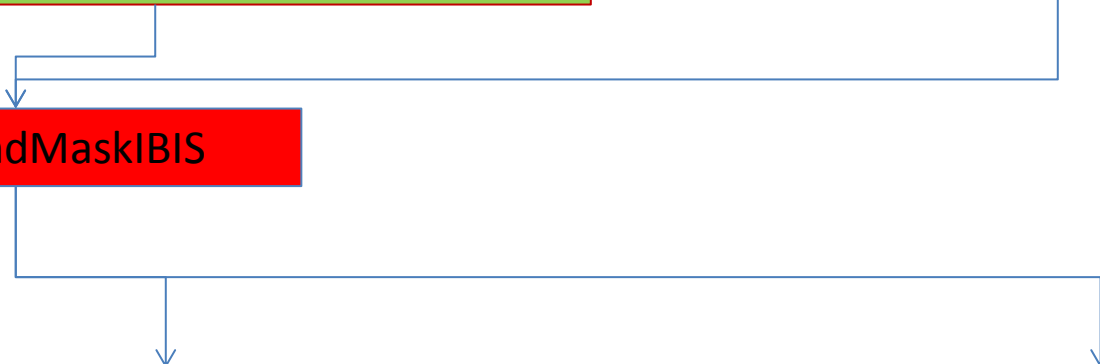
pre/dataout  
LandSeaMaskGZZZZ

pre/dataout  
PorceSandMaskIBISClima.dat

PorceSandMaskIBIS

model/datain  
PorceSandMaskIBIS.GZZZZ

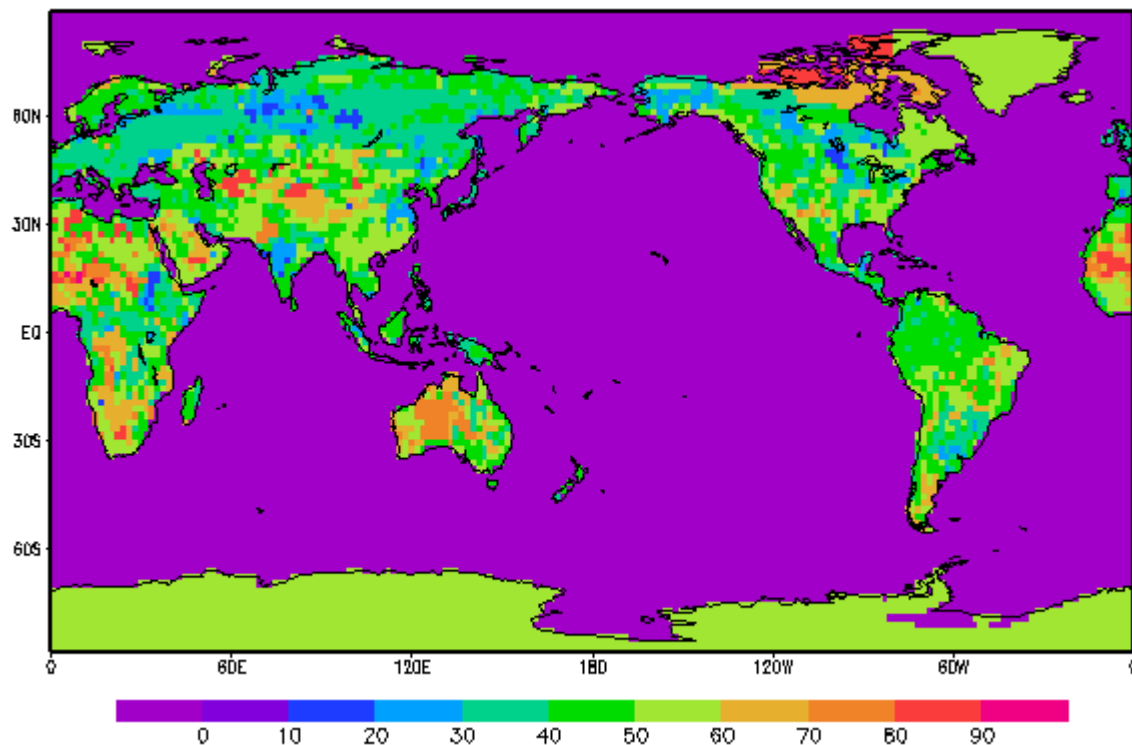
pre/dataout  
ModelLandSeaMask.GZZZZ  
PorceSandMaskIBIS.GZZZZ  
PorceSandMaskIBIS.GZZZZ.cti





PorceSandMaskIBIS

pre/dataout  
PorceSandMaskIBIS.GZZZZ  
PorceSandMaskIBIS.GZZZZ.cti



VARS 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]




sandO 6 99 PorceSandMaskIBIS Mask Before Fix [0 to 100]

sandM 6 99 PorceSandMaskIBIS Mask For Model [0 to 100]

ENDVARS



PorceSandMaskSiB2Clima

Nome	Data de modificaç...	Tipo	Tamanho
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 PorceSandMaskSiB2Clima	05/03/2013 17:58	Arquivo F90	7 KB

pre/databcs  
sandmsk.form

**PorceSandMaskSiB2Clima**

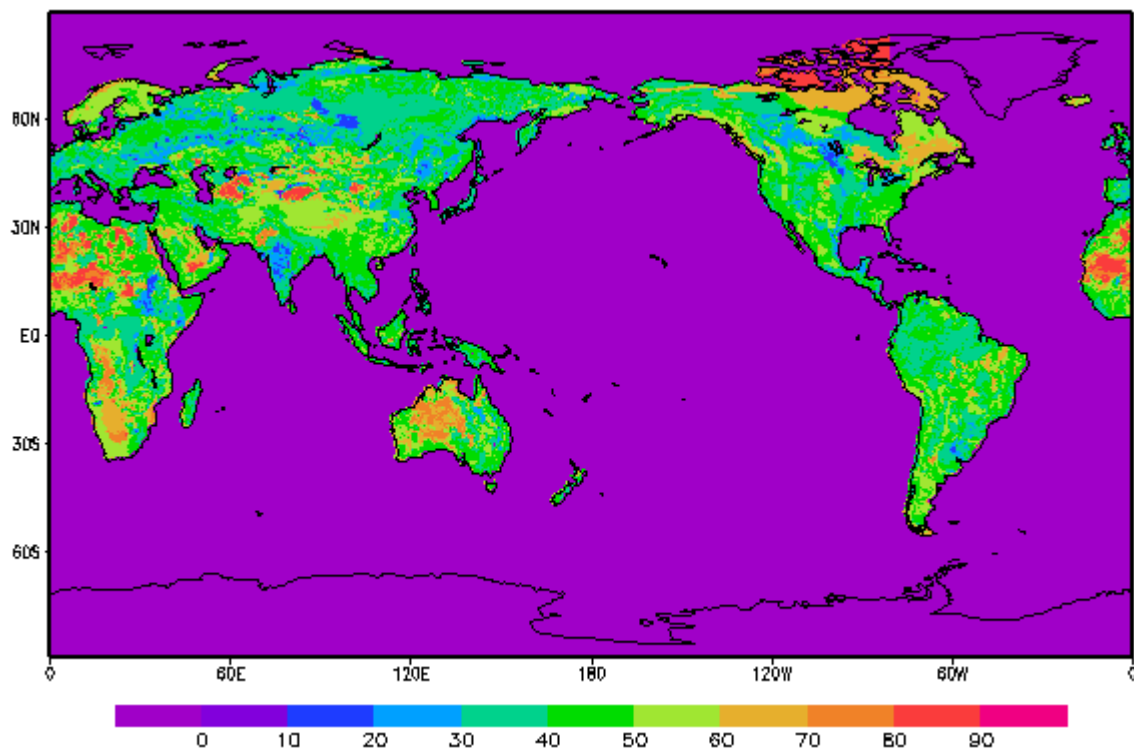
pre/dataout  
**PorceSandMaskSiB2Clima.dat**

pre/dataout  
PorceSandMaskSiB2ClimaG.dat  
**PorceSandMaskSiB2ClimaG.ctl**



PorceSandMaskSiB2Clima

pre/dataout  
PorceSandMaskSiB2ClimaG.dat  
**PorceSandMaskSiB2ClimaG.cti**



VARS 1  
SandM 6 99 PorcSand Mask [No Dim]  
ENDVARS



PorceSandMaskSiB2

Nome	Data de modificaç...	Tipo	Tamanho
AreaIntegerInterp	05/03/2013 18:06	Arquivo F90	19 KB
InputParameters	07/11/2012 15:42	Arquivo F90	5 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceSandMaskSiB2	05/03/2013 18:03	Arquivo F90	13 KB

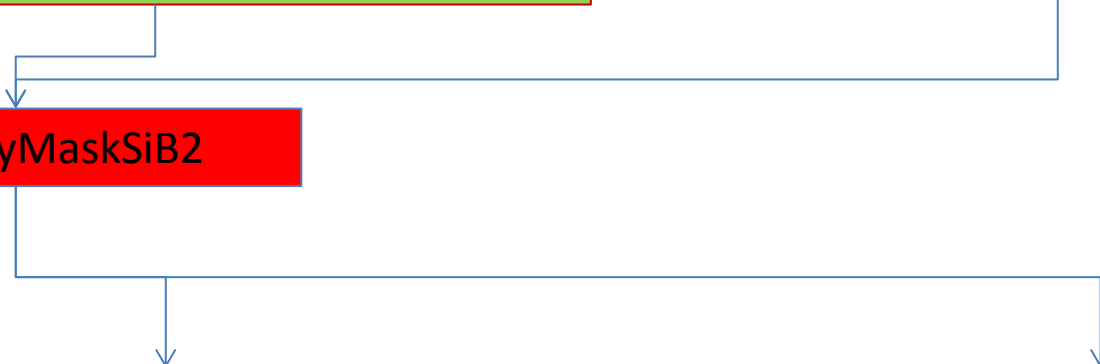
pre/dataout  
LandSeaMaskGZZZZ

pre/dataout  
PorceSandMaskSiB2Clima.dat

PorceClayMaskSiB2

model/datain  
PorceSandMaskSiB2.GZZZZ

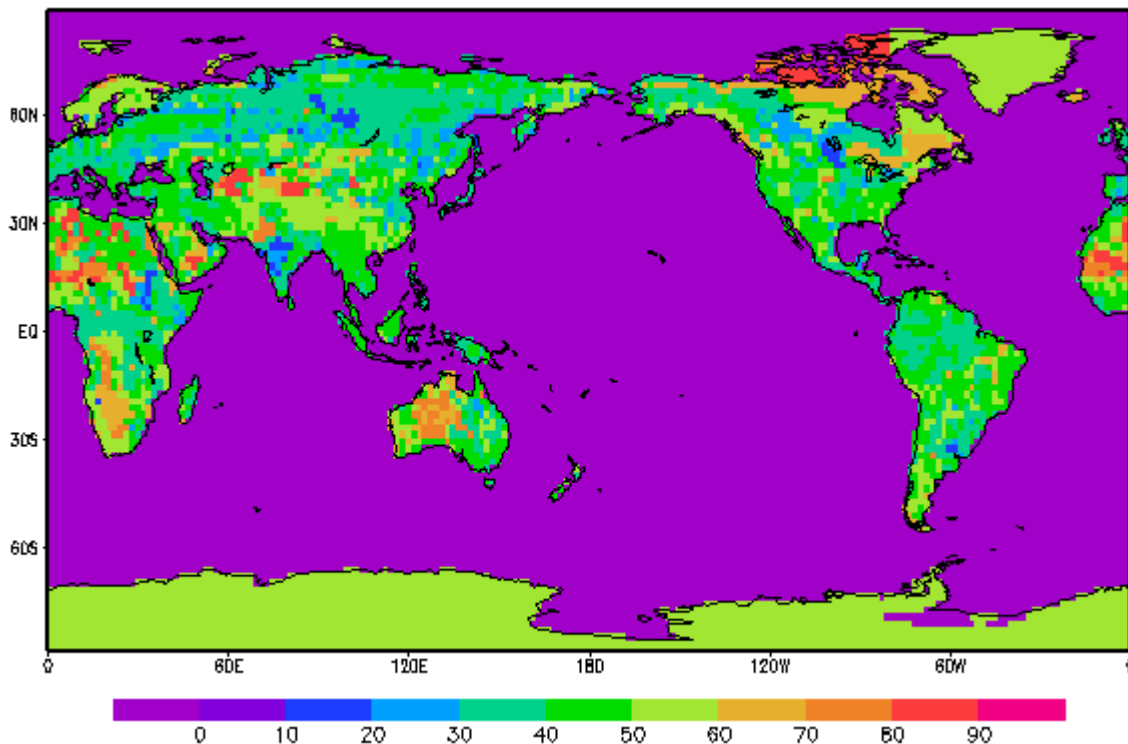
pre/dataout  
ModelLandSeaMask.GZZZZ  
PorceSandMaskSiB2GZZZZ  
PorceSandMaskSiB2.GZZZZ.cti





PorceSandMaskSiB2

```
pre/dataout
PorceSandMaskSiB2GZZZZ
PorceSandMaskSiB2.GZZZZ.cti
```



VARS 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]

VGMO 0 99 PorceSandMaskSiB2 Mask Before Fix [0 to 100]




VEGM 0 99 PorceSandMaskSiB2 Mask For Model [0 to 100]

ENDVARS





SoilTextureMaskSiB2Clima

Nome	Data de modificaç...	Tipo	Tamanho
 Makefile	07/11/2012 15:42	Arquivo	1 KB
 Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
 SoilTextureMaskSiB2Clima	05/03/2013 18:08	Arquivo F90	7 KB

pre/databcs  
soiltext.form

**SoilTextureMaskSiB2Clima**

pre/dataout  
**SoilTextureMaskClima2.dat**

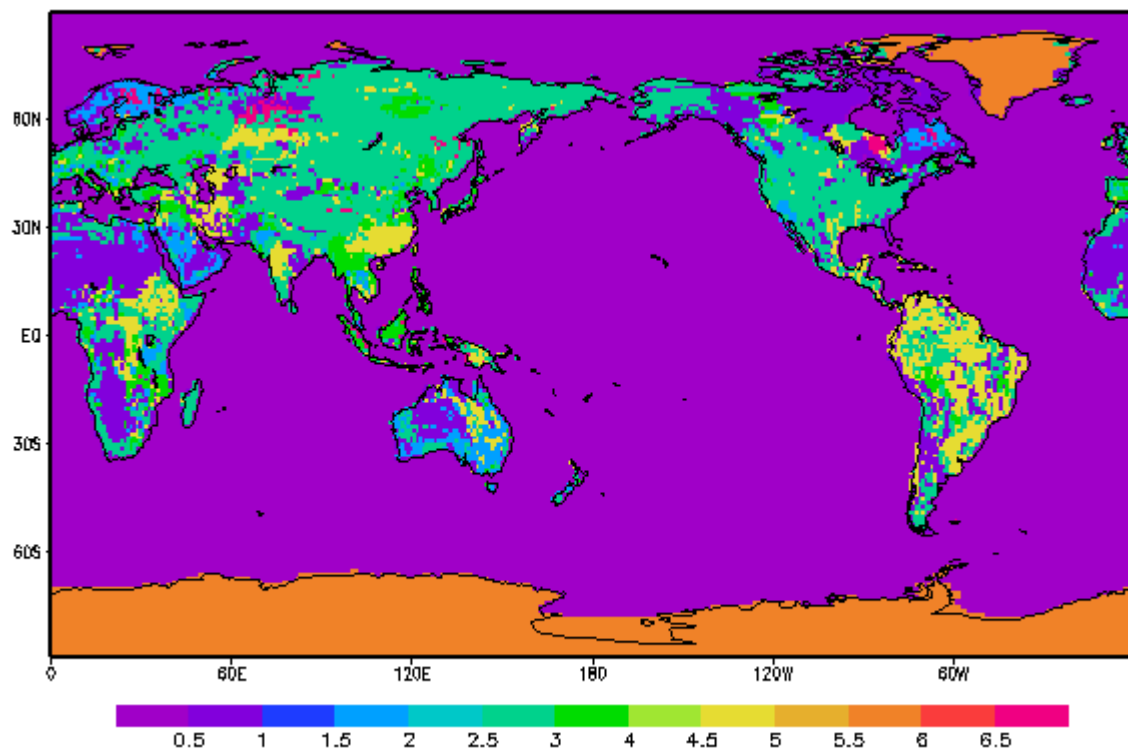
pre/dataout  
SoilTextureMaskClima2G.dat  
**SoilTextureMaskClima2G.cti**





SoilTextureMaskSiB2Clima

pre/dataout  
SoilTextureMaskClima2G.dat  
**SoilTextureMaskClima2G.ctl**








VARS 1

soilTxt 0 99 **SoilTextureMask** Mask [No Dim]

ENDVARS



SoilTextureMaskSiB2

Nome	Data de modificaç...	Tipo	Tamanho
 AreaIntegerInterp	05/03/2013 18:11	Arquivo F90	19 KB
 InputParameters	07/11/2012 15:41	Arquivo F90	4 KB
 Makefile	07/11/2012 15:41	Arquivo	1 KB
 Makefile.common	07/11/2012 15:41	Arquivo COMMON	1 KB
 SoilTextureMaskSiB2	05/03/2013 18:13	Arquivo F90	12 KB

pre/dataout  
LandSeaMaskGZZZZ

pre/dataout  
SoilTextureMaskClima.dat

SoilTextureMaskSiB2

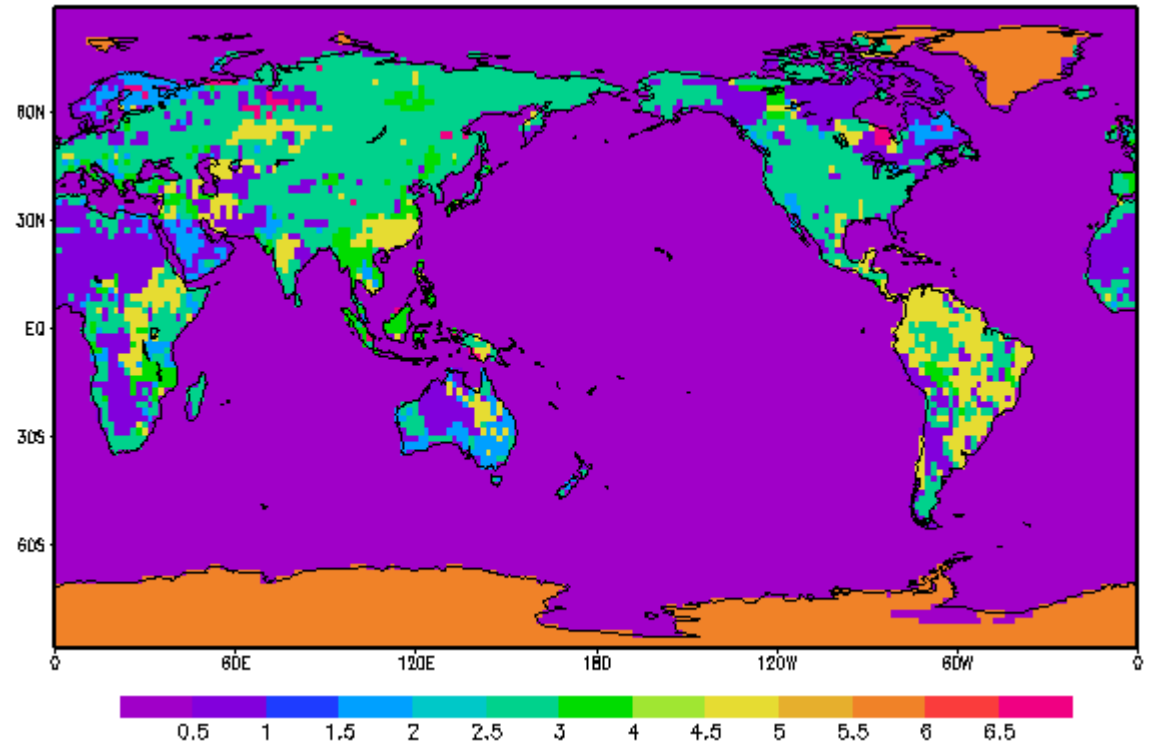
model/datain  
SoilTextureMaskSiB2.GZZZZ

pre/dataout  
ModelLandSeaMask.GZZZZ  
SoilTextureMaskSiB2.GZZZZ  
SoilTextureMaskSiB2.GZZZZ.cti



SoilTextureMaskSiB2

pre/dataout  
SoilTextureMaskSiB2.GZZZZ  
SoilTextureMaskSiB2.GZZZZ.cti



TDEF 1 LINEAR JAN2005 1MO

VARS 4

LSMO 0 99 Land Sea Mask Before Fix [0-Sea 1-Land]

LSMK 0 99 Land Sea Mask For Model [0-Sea 1-Land]

SoilTexO 0 99 SoilTextureMaskSiB2 Mask Before Fix [0 to 12]

SoilTexM 0 99 SoilTextureMaskSiB2 Mask For Model [0 to 12]

ENDVARS



SSTMonthlyDirec

Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
FastFourierTransform	07/11/2012 15:42	Arquivo F90	33 KB
InputParameters	07/11/2012 15:42	Arquivo F90	9 KB
LegendreTransform	07/11/2012 15:42	Arquivo F90	25 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	2 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
SpectralGrid	07/11/2012 15:42	Arquivo F90	2 KB
SSTMonthlyDirec	07/11/2012 15:42	Arquivo F90	19 KB

pre/databcs  
sstaoi.form

model/datain  
GANLNMYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/dataout  
ModelLandSeaMask.GZZZZ

pre/datasst/oiv2monthly  
sstmtd.nml  
Sstoiv.YYYYYMMDD

SSTMonthlyDirec

model/datain  
SSTMonthlyDirec.YYYYYMMDD.GZZZZ

pre/dataout  
SSTMonthlyDirec.YYYYYMMDD.GZZZZ.bin  
SSTMonthlyDirec.YYYYYMMDD.GZZZZ.ctl



SSTMonthlyDirec

pre/dataout

SSTMonthlyDirec. YYYYMMDD.GZZZZ.bin

SSTMonthlyDirec. YYYYMMDD.GZZZZ.cti

VAR 4

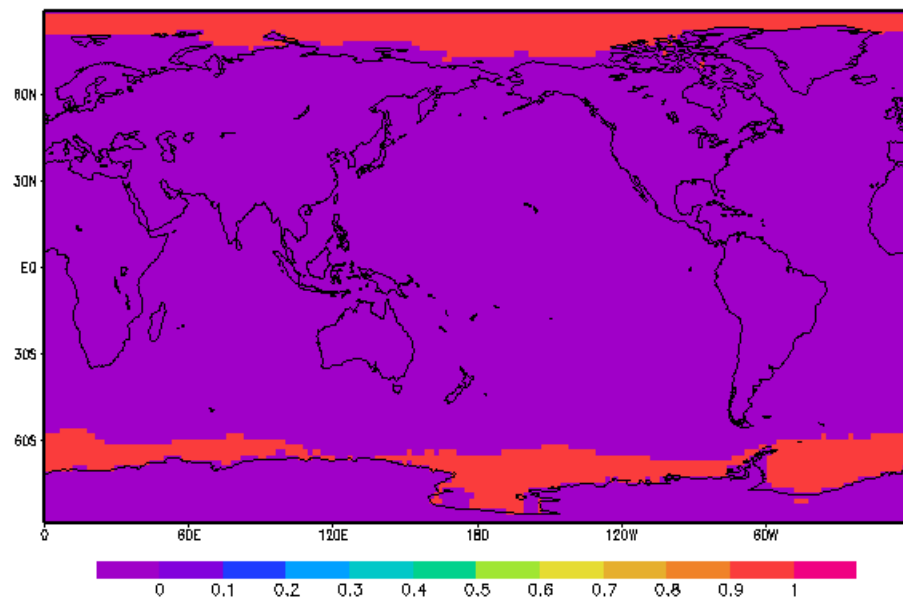
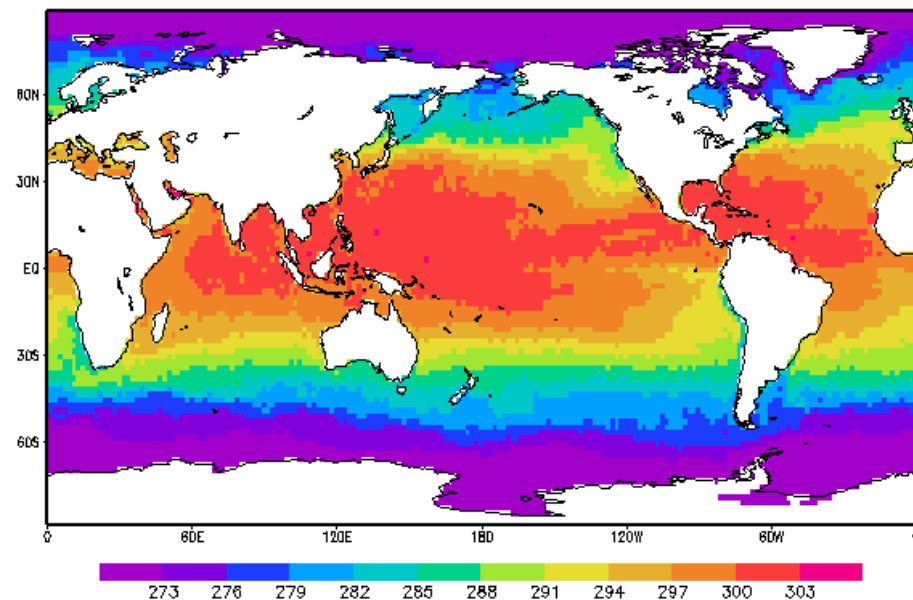
TOPO 0 99 Model Recomposed Topography [m]

LSMK 0 99 Land Sea Mask [1:Sea -1:Land]

SIMK 0 99 Sea Ice Mask [1:SeaIce 0:NoIce]










SSTW 0 99 Weekly SST Topography Corrected [K]

ENDVAR 5





SSTDailyDirec

Nome	Data de modificaç...	Tipo	Tamanho
 AreaInterpolation	05/02/2013 15:04	Arquivo F90	16 KB
 FastFourierTransform	05/02/2013 15:04	Arquivo F90	33 KB
 InputParameters	05/02/2013 15:49	Arquivo F90	9 KB
 LegendreTransform	05/02/2013 15:04	Arquivo F90	25 KB
 LinearInterpolation	05/02/2013 15:04	Arquivo F90	9 KB
 Makefile	05/02/2013 15:04	Arquivo	2 KB
 Makefile.common	05/02/2013 15:12	Arquivo COMMON	2 KB
 SpectralGrid	05/02/2013 15:04	Arquivo F90	2 KB
 SSTDailyDirec	05/02/2013 17:07	Arquivo F90	20 KB

pre/databcs  
sstaoi.form

model/dain  
GANLNMYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/dataout  
ModelLandSeaMask.GZZZZ

pre/datasst/oiv2daily  
sstmtd.nml  
Sstoiv.YYYYYMMDD

SSTDailyDirec

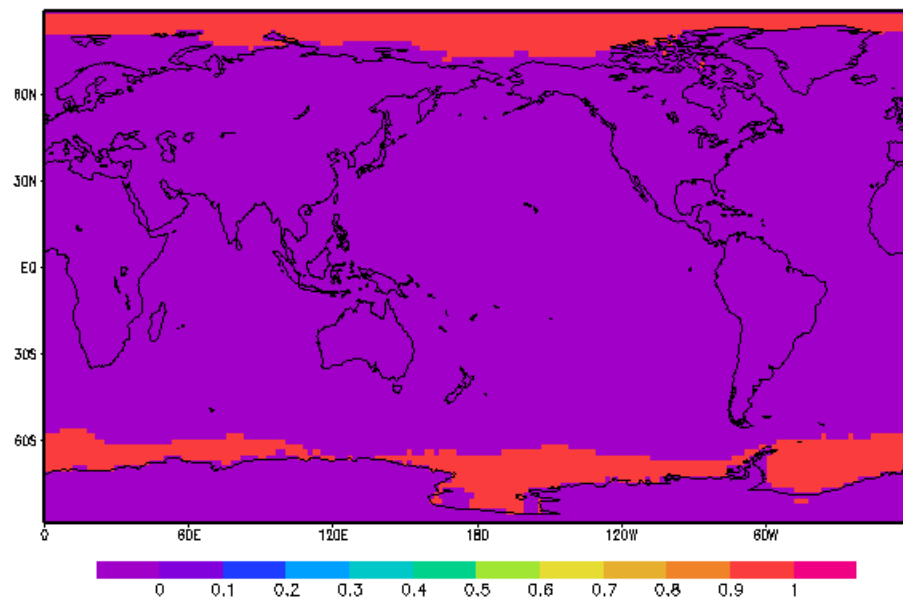
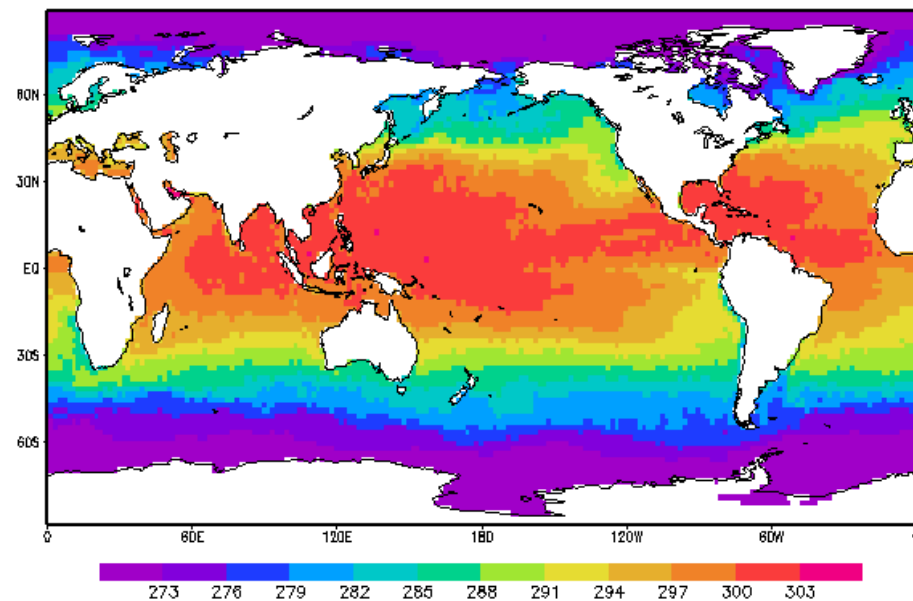
model/dain  
SSTDailyDirec. YYYYYMMDD.GZZZZ

pre/dataout  
SSTDailyDirec. YYYYYMMDD.GZZZZ.bin  
SSTDailyDirec . YYYYYMMDD.GZZZZ.ct!





pre/dataout  
SSTDailyDirec. YYYYMMDD.GZZZZ.bin  
SSTDailyDirec . YYYYMMDD.GZZZZ.ctl







TopographyGradient

Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	29/04/2013 20:04	Arquivo F90	16 KB
FastFourierTransform	07/11/2012 15:42	Arquivo F90	33 KB
InputArrays	07/11/2012 15:42	Arquivo F90	2 KB
InputParameters	02/05/2013 08:38	Arquivo F90	8 KB
LegendreTransform	07/11/2012 15:41	Arquivo F90	29 KB
LinearInterpolation	29/04/2013 20:04	Arquivo F90	9 KB
Makefile	29/04/2013 20:07	Arquivo	2 KB
Makefile.common	29/04/2013 20:07	Arquivo COMMON	2 KB
Spectral2Grid	07/11/2012 15:41	Arquivo F90	2 KB
TopographyGradient	02/05/2013 08:36	Arquivo F90	10 KB

pre/databcs  
sstaoi.form

model/datain  
GANLNMYYYYMMDDHHS.unf.TQYYYYLZZZ

TopographyGradient

pre/dataout  
ModelLandSeaMask.GZZZZ

pre/dataout/  
HPRIME.dat

pre/dataout  
HPRIME. GZZZZ  
HPRIME.GZZZZ.ctl

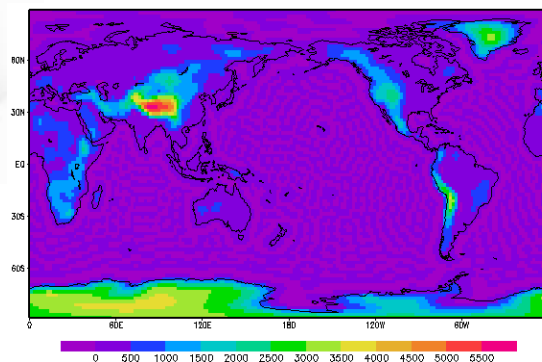
model/datain  
TopographyGradient. YYYYMMDDHH.GZZZZ  
HPRIME..GZZZZ

pre/dataout  
TopographyGradient. YYYYMMDDHH.GZZZZ.bin  
TopographyGradient. YYYYMMDDHH.GZZZZ.ctl

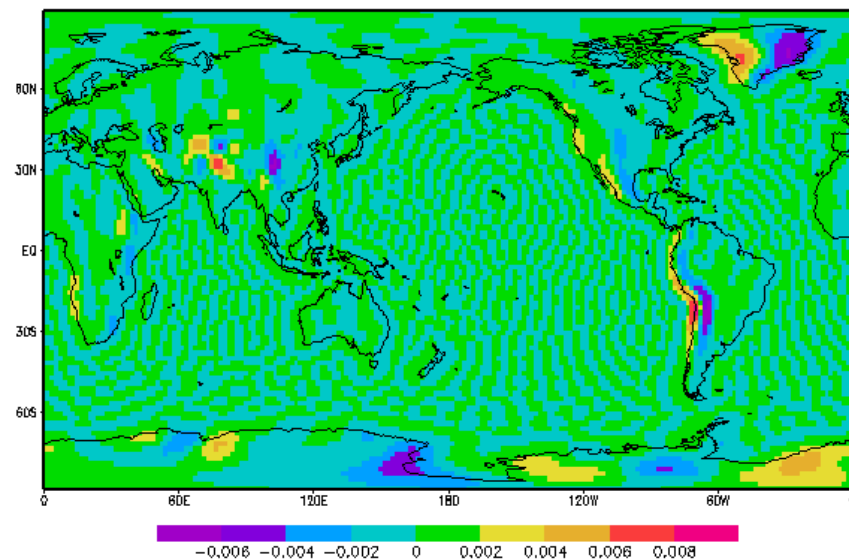


TopographyGradient

topo



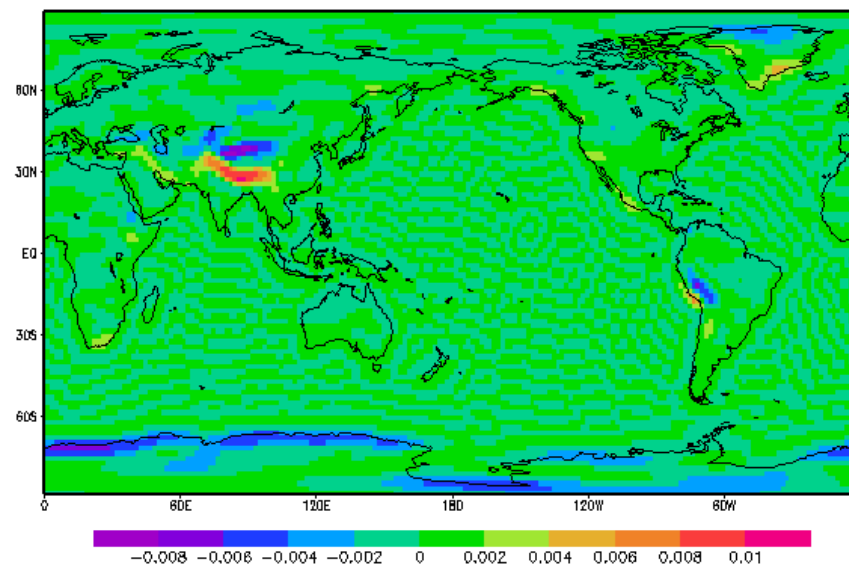
dtpx



pre/dataout  
HPRIME.GZZZZ  
HPRIME.GZZZZ.cti

pre/dataout  
TopographyGradient.YYYYMMDDHH.GZZZZ.bin  
TopographyGradient.YYYYMMDDHH.GZZZZ.cti

dtpy



vars 3

topo 1 99 Topography (m)

dtpx 1 99 Zonal Gradient of Topography (m/m)

dtpy 1 99 Meridional Gradient of Topography (m/m)

endvars



TopographyGradient

## HSTDV

HPRIME. GZZZZ  
HPRIME.GZZZZ.ctf

VAR 14

HSTDV 0 99 standard deviation of orography

HCNVX 0 99 Normalized convexity

HASYW 0 99 orographic asymmetry in W-E plane

HASYS 0 99 orographic asymmetry in S-N plane

HASYSW 0 99 orographic asymmetry in SW-NE plane

HASYNW 0 99 orographic asymmetry in NW-SE plane

HLENW 0 99 orographic length scale in W-E plane

HLENS 0 99 orographic length scale in S-N plane

HLENSW 0 99 orographic length scale in SW-NE plane

HLENNW 0 99 orographic length scale in NW-SE plane

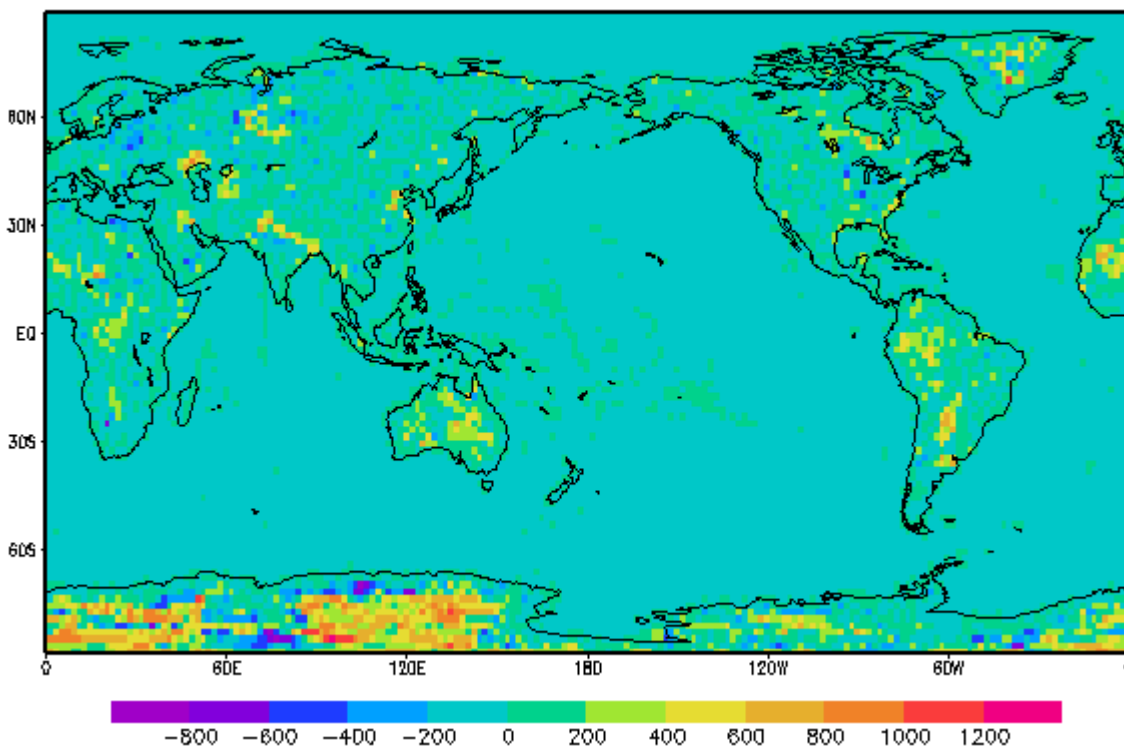
HANGL 0 99 angle of the mountain range w/r/t east

HSLOP 0 99 slope of orography

HANIS 0 99 anisotropy/aspect ratio

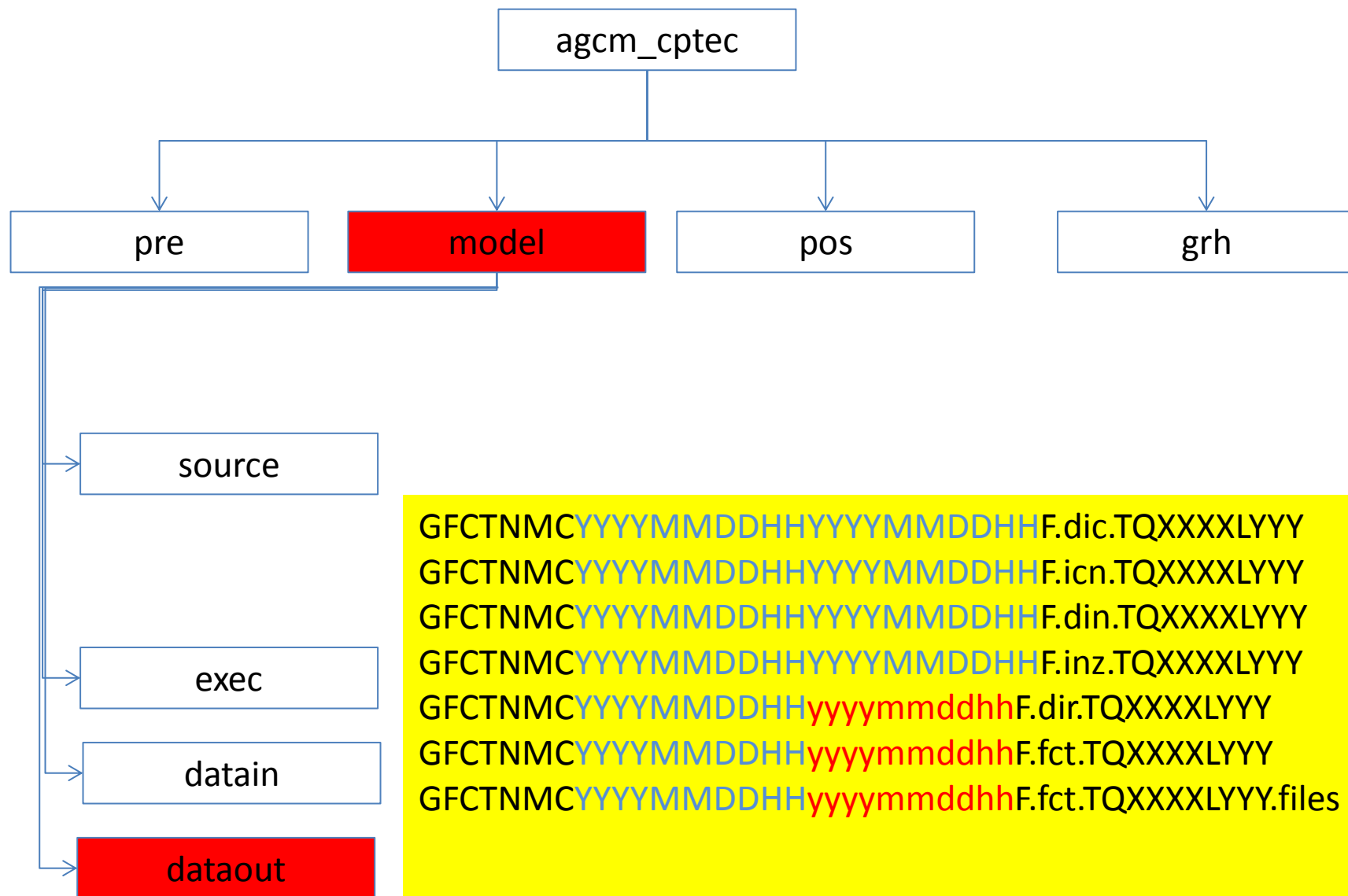
HZMAX 0 99 max height above mean orography

ENDVARS

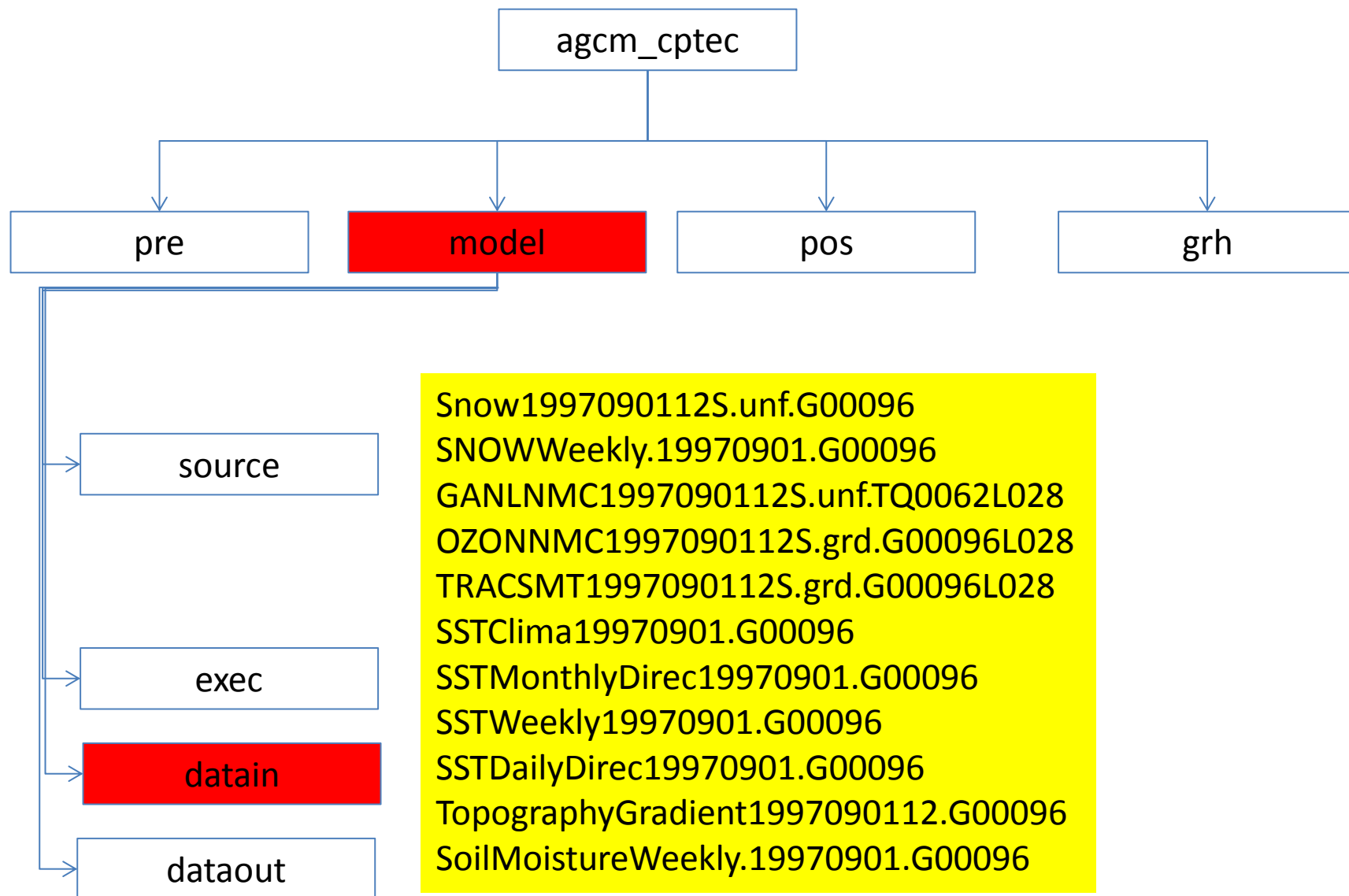




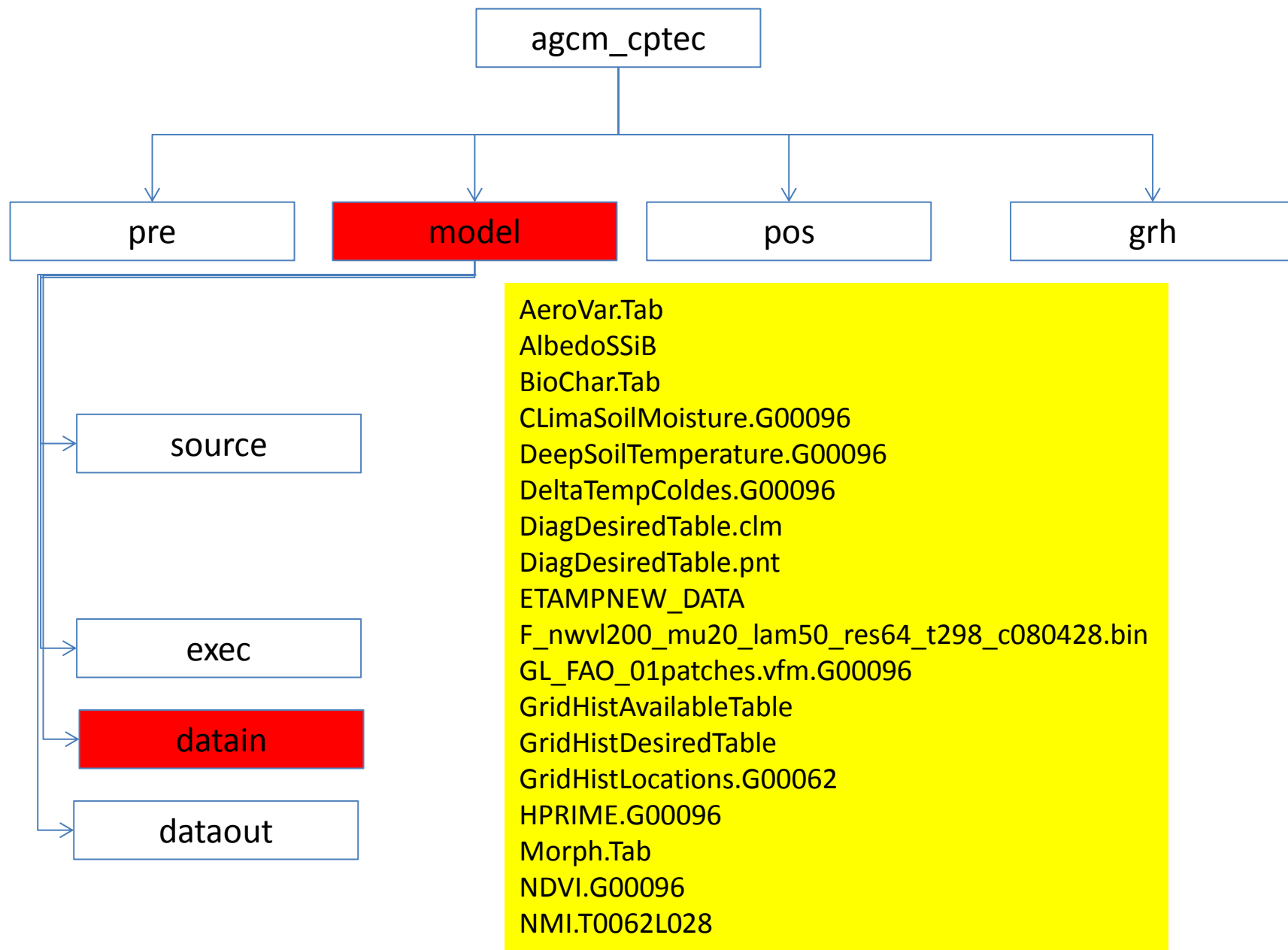
## **Estrutura do modelo AGCM-CPTEC/INPE**



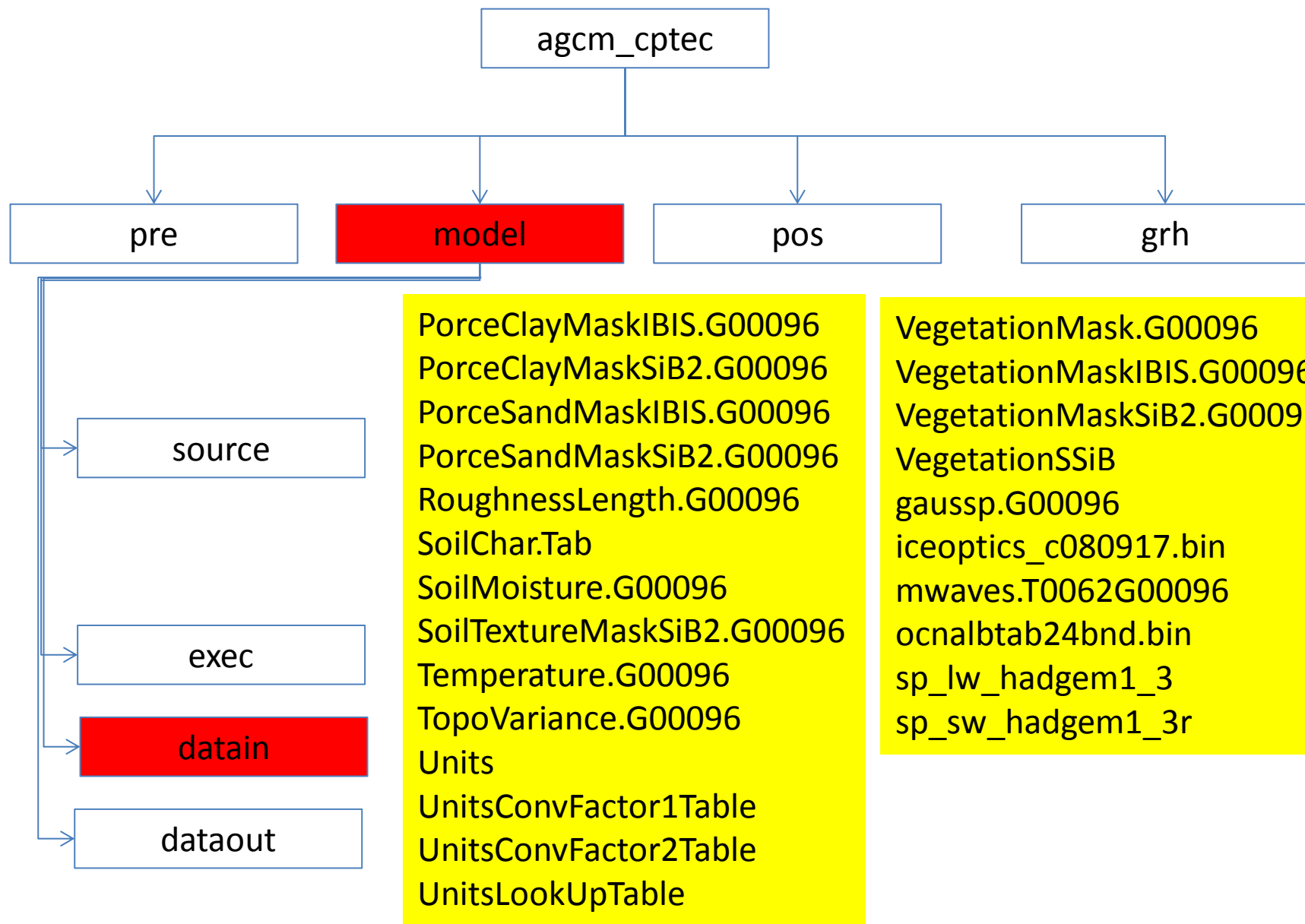
GFCTNMCYYYYMMDDHHYYYYMMDDHHF.dic.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.icn.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.din.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.inz.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.dir.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY.files

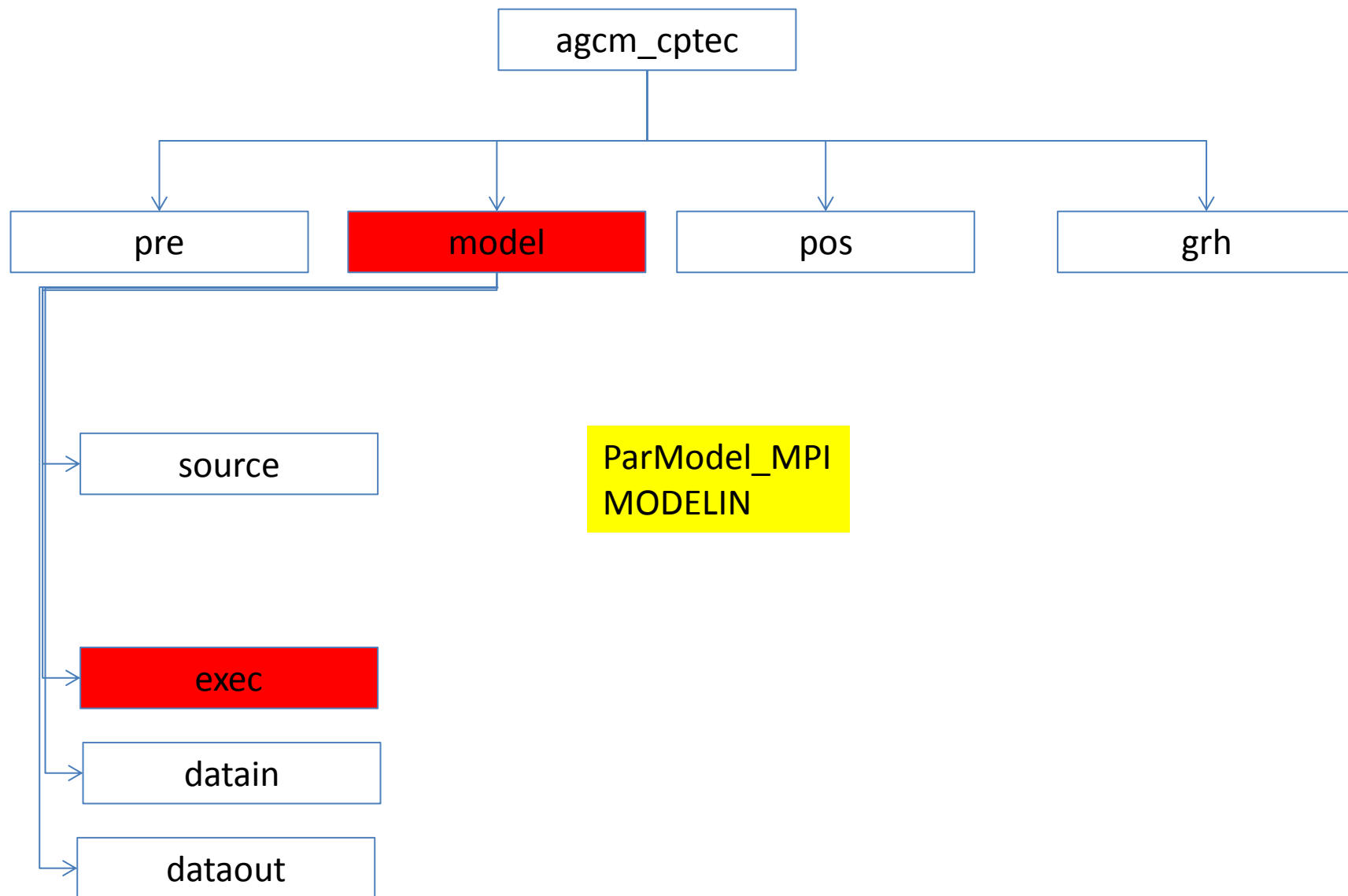


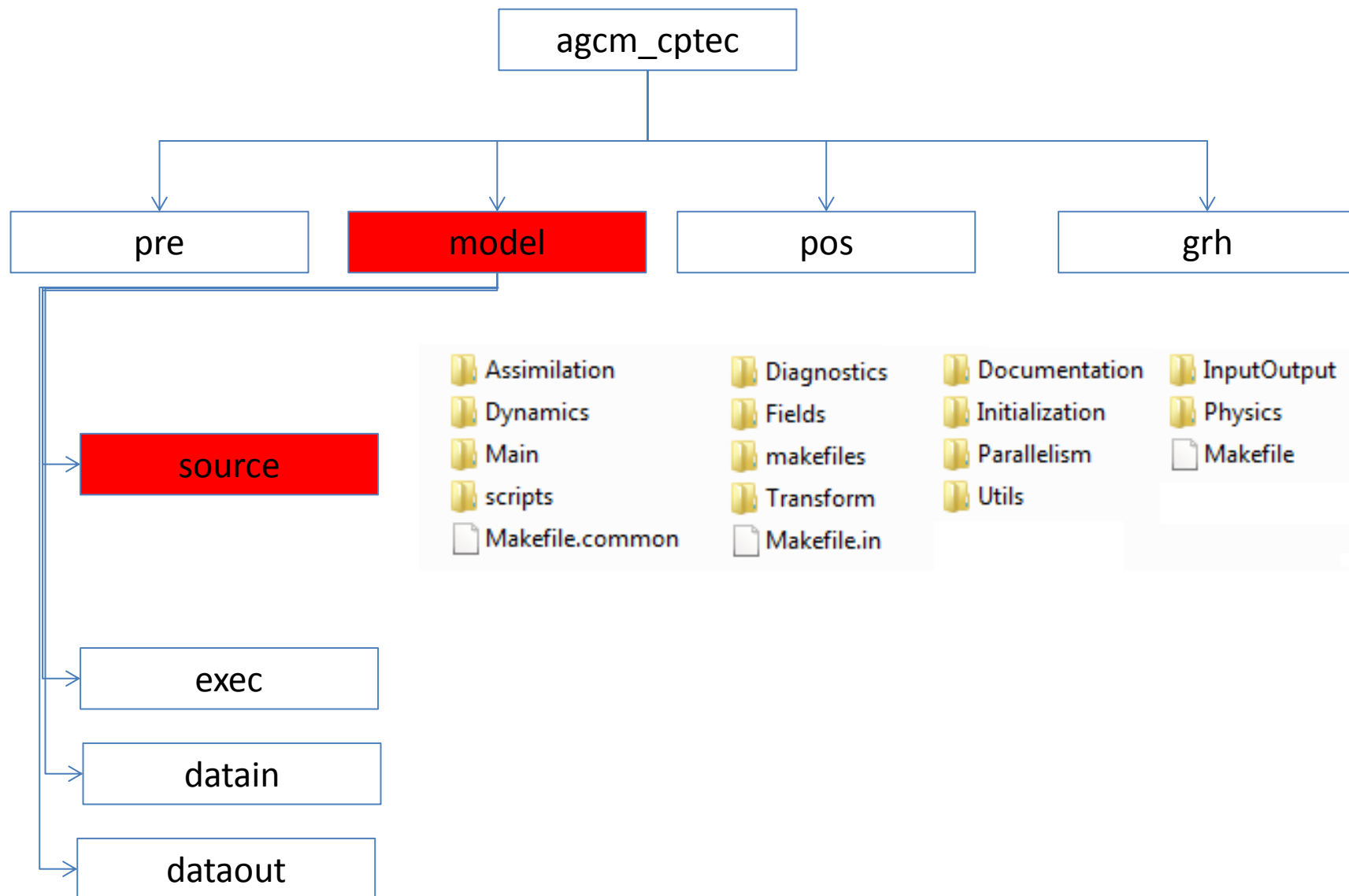












agcm\_cptec

pre




model

pos

grh

source



Nome	Data de modificaç...	Tipo	Tamanho
 GridDump	28/08/2013 14:06	Arquivo F90	22 KB
 SpecDump	06/04/2015 09:34	Arquivo F90	27 KB
 SpecDump.f90.in	28/08/2013 14:06	Arquivo IN	27 KB

agcm\_cptec

pre

model

pos

grh

source




Diagnostics

Nome

Data de modificaç...

Tipo


Tamanho

 Diagnostics

28/08/2013 14:06

Arquivo F90

137 KB

 GridHistory

28/08/2013 14:06

Arquivo F90

49 KB

agcm\_cptec

pre

model





pos

grh

source



Dynamics

Nome	Data de modificaç...	Tipo	Tamanho
 GridDynamics	28/08/2013 14:06	Arquivo F90	58 KB
 SemiLagrangian	28/08/2013 14:06	Arquivo F90	85 KB
 SpecDynamics	28/08/2013 14:06	Arquivo F90	39 KB
 TimeStep	28/08/2013 14:06	Arquivo F90	41 KB

agcm\_cptec

pre

model

pos

grh

source




Fields

Nome

Data de modificaç...

Tipo


Tamanho

 FieldsDynamics

28/08/2013 14:06

Arquivo F90

14 KB

 FieldsPhysics

28/08/2013 14:06

Arquivo F90

30 KB



agcm\_cptec

pre

model




pos

grh

source



Initialization

Nome	Data de modificaç...	Tipo	Tamanho
 Init	28/08/2013 14:06	Arquivo F90	17 KB
 NonLinearNMI	28/08/2013 14:06	Arquivo F90	63 KB
 Options	02/09/2013 15:43	Arquivo F90	111 KB

agcm\_cptec

pre

model

pos

grh

source



InputOutput

Nome

InputOutput

IOLowLevel

Data de modificaç...

28/08/2013 14:06

28/08/2013 14:06

Tipo

Arquivo F90

Arquivo F90

Tamanho

75 KB

77 KB

agcm\_cptec

pre

model



pos

grh

source



Main

Nome	Data de modificaç...	Tipo	Tamanho
 Atmos_Model	28/08/2013 18:06	Arquivo F90	55 KB
 Model	28/08/2013 14:06	Arquivo F90	1 KB

agcm\_cptec

pre

model

pos

grh

source

Nome

Data de modificaç...

Tipo

Tamanho

Makefile.cray_cray	28/08/2013 14:06	Arquivo CRAY_CR...	4 KB
Makefile.cray_cray32	28/08/2013 14:06	Arquivo CRAY_CR...	3 KB
Makefile.cray_craydbg	28/08/2013 14:06	Arquivo CRAY_CR...	3 KB
Makefile.cygwin_gnu	05/12/2014 19:50	Arquivo CYGWIN_...	1 KB
Makefile.cygwin_gnu_dbx	05/12/2014 19:43	Arquivo CYGWIN_...	2 KB
Makefile.gnu_cray	28/08/2013 14:06	Arquivo GNU_CRAY	1 KB
Makefile.gnu_cray_dbx	28/08/2013 14:06	Arquivo GNU_CR...	2 KB
Makefile.gnu_cray2	28/08/2013 14:06	Arquivo GNU_CR...	2 KB
Makefile.linux_gnu	02/12/2014 17:15	Arquivo LINUX_G...	1 KB
Makefile.linux_intel	28/08/2013 14:06	Arquivo LINUX_IN...	1 KB
Makefile.linux_intel_dbx	28/08/2013 14:06	Arquivo LINUX_IN...	1 KB
Makefile.pgi_cray	28/08/2013 14:06	Arquivo PGI_CRAY	2 KB
Makefile.pgi_cray_craydbg	28/08/2013 14:06	Arquivo PGI_CRA...	2 KB
Makefile.sx6	28/08/2013 14:06	Arquivo SX6	1 KB
Makefile.tupay	28/08/2013 14:06	Arquivo TUPAY	1 KB
Makefile.una_gnu	24/05/2014 14:37	Arquivo UNA_GNU	1 KB
Makefile.una_intel	28/08/2013 14:06	Arquivo UNA_INTEL	1 KB



makefiles

agcm\_cptec

pre

model



pos

grh

source



scripts

Nome	Data de modificaç...	Tipo	Tamanho
 MODELIN	28/08/2013 18:09	Arquivo	16 KB
 runModel.XT6	28/08/2013 14:06	Arquivo XT6	15 KB

agcm\_cptec

pre

model

pos

grh

source



Parallelism

Nome	Data de modificaç...	Tipo	Tamanho
Communications	28/08/2013 14:06	Arquivo F90	69 KB
Parallelism	28/08/2013 14:06	Arquivo F90	7 KB
Sizes	28/08/2013 14:06	Arquivo F90	65 KB



Parallelism

Sizes.f90

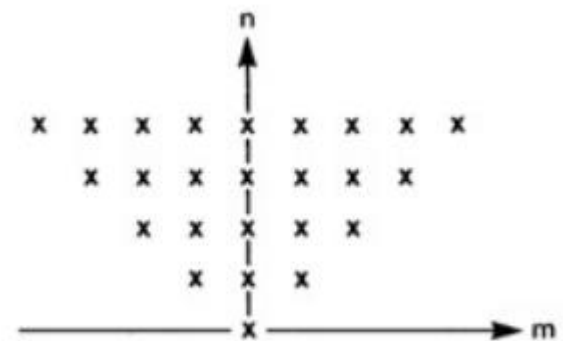
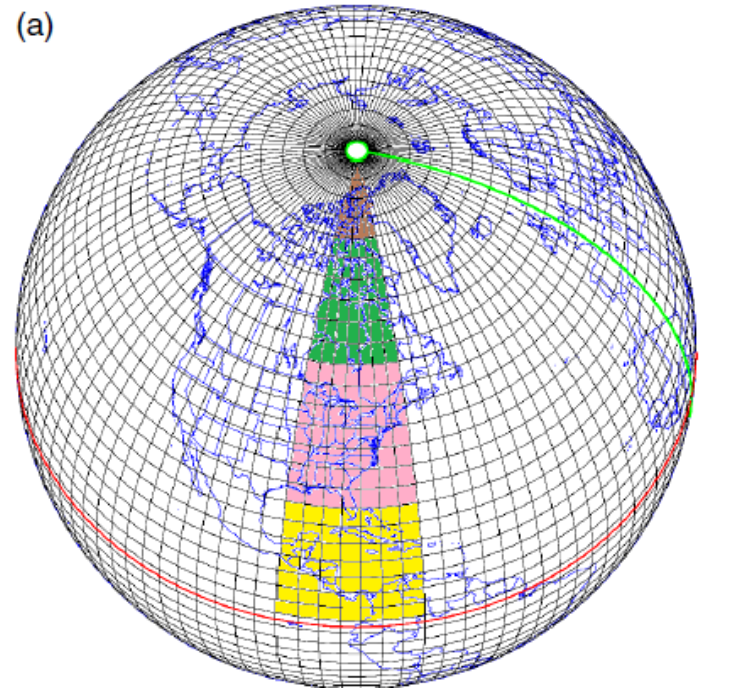
$$F(\lambda, \varphi) = \sum_{m=-\infty}^{\infty} \sum_{n=|m|}^{\infty} F_n^m Y_n^m(\lambda, \varphi),$$

$$Y_n^m(\lambda, \varphi) = e^{im\lambda} P_n^m(\sin \varphi)$$

$$\boxed{\nabla^2 Y_n^m = \frac{-n(n+1)}{a^2} Y_n^m}$$

Onde o Harmônico esférico  $Y_n^m$  são as autofunções do laplaciano sobre a esfera

$$\bar{F} = \sum_{m=-M}^M \sum_{n=|m|}^{N(m)} F_n^m Y_n^m.$$



Triangular truncation

Triangular truncation:  $N = M$ .



agcm\_cptec

pre

model

pos


grh

source



Transform

Nome

 Transform

Data de modificaç...

28/08/2013 14:06

Tipo

Arquivo F90

Tamanho

104 KB

agcm\_cptec

pre

model






pos

grh

source



Utils

Nome	Data de modificaç...	Tipo	Tamanho
 Constants	28/08/2013 14:06	Arquivo F90	9 KB
 Constants.f90.in	28/08/2013 14:06	Arquivo IN	8 KB
 PhysicalFunctions	28/08/2013 14:06	Arquivo F90	718 KB
 Utils	28/08/2013 14:06	Arquivo F90	151 KB
 Watches	28/08/2013 14:06	Arquivo F90	10 KB

agcm\_cptec

pre

model







pos

grh

source



Physics

Nome	Data de modificaç...	Tipo	Tamanho
 BoundaryLayer	04/09/2013 00:15	Pasta de arquivos	
 Convection	04/09/2013 00:17	Pasta de arquivos	
 GravityWaveDrag	04/09/2013 00:16	Pasta de arquivos	
 Radiation	04/09/2013 00:15	Pasta de arquivos	
 Surface	04/09/2013 00:16	Pasta de arquivos	
 PhysicsDriver	28/08/2013 14:06	Arquivo F90	106 KB

agcm\_cptec

pre

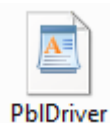
model

pos

grh

source

BoundaryLayer Convection GravityWaveDrag Radiation Surface



PblDriver



HostlaqBoville



MellorYamada1



MellorYamada0



ParkBretherton

Physics

agcm\_cptec

pre

model

pos

grh

source

BoundaryLayer Convection GravityWaveDrag Radiation Surface

Convection

CloudFraction DeepConvection MicroPhysics ShallowConvection

DeepConvection

GrellEns  
GrellEnsCPTEC  
Kuo  
Ras  
Zhang

MicroPhysics

Ferrier  
Hack  
HWRF  
LrgScl  
MORRISON  
MORRISON\_AERO  
UKME

ShallowConvection

JHack  
Souza  
Tied  
UWShCu

Physics

agcm\_cptec

pre

model

pos

grh

source

BoundaryLayer Convection GravityWaveDrag Radiation Surface

GwddDriver

Alpert

CAM

ECMWF

UKMET

Physics

agcm\_cptec

pre

model

pos

grh

source

BoundaryLayer Convection GravityWaveDrag Radiation Surface

RadiationDriver

Clirad

CliradTarasova

COLA

RRTMG

UKMET

Physics



agcm\_cptec

pre

model

pos

grh

source

BoundaryLayer

Convection

GravityWaveDrag

Radiation

Surface

Surface

Land

Ocean

IBIS2.6

SiB2.5

SSiB

Sfc\_SeaFlux\_Interface

SeaFlux\_CO LA

SeaFlux\_UKME

SeaFlux\_W GFS

SeaIceFlux\_WRF

Physics

Main

**PROGRAM Main**

**USE** AtmosModelMod, **Only** :  
atmos\_model\_init,atmos\_model\_run,at  
mos\_model\_finalize

**IMPLICIT NONE**

**CALL** atmos\_model\_init()

**CALL** atmos\_model\_run()

**CALL** atmos\_model\_finalize()

**STOP**

**END PROGRAM Main**

Main/Atmos\_Model.f90

```
SUBROUTINE atmos_model_init()  
END SUBROUTINE atmos_model_init
```

```
SUBROUTINE atmos_model_run()  
END SUBROUTINE atmos_model_run
```

```
SUBROUTINE atmos_model_finalize()  
END SUBROUTINE atmos_model_finalize
```

```
CALL .....  
CALL CreateParallelism  
CALL InitAll  
CALL InitPhysicalFunctions  
CALL InitInputOutput  
CALL InitDiagnostics  
CALL InitReadWriteSpec  
CALL InitFieldsPhyscs  
CALL InitPBLDriver  
CALL InitGWDDDriver  
CALL InitConvection  
CALL InitSurface  
CALL InitRadiationDriver  
CALL .....  
  
CALL Diaten  
CALL Nlnmi  
CALL .....
```

Main/Atmos\_Model.f90

```
SUBROUTINE atmos_model_init()  
END SUBROUTINE atmos_model_init
```

```
SUBROUTINE atmos_model_run()  
END SUBROUTINE atmos_model_run
```

```
SUBROUTINE atmos_model_finalize()  
END SUBROUTINE atmos_model_finalize
```

CALL TimeStep

CALL Finalize\_\*  
CALL DestroyParallelism

Main/Atmos\_Model.f90

```
SUBROUTINE atmos_model_init()  
END SUBROUTINE atmos_model_init
```

```
SUBROUTINE atmos_model_run()  
END SUBROUTINE atmos_model_run
```

```
SUBROUTINE atmos_model_finalize()  
END SUBROUTINE atmos_model_finalize
```

```
CALL .....  
CALL TimeStep  
CALL .....
```

Main/Atmos\_Model.f90

```
SUBROUTINE atmos_model_init()  
END SUBROUTINE atmos_model_init
```

```
SUBROUTINE atmos_model_run()  
END SUBROUTINE atmos_model_run
```

```
SUBROUTINE atmos_model_finalize()  
END SUBROUTINE atmos_model_finalize
```

```
CALL .....  
CALL Finalize_*  
CALL DestroyParallelism
```

Main/Atmos\_Model.f90  
TimeStep.f90

**CALL** BackTrans()  
**CALL** TimeFilterStep2()  
**CALL** grpcomp ()  
**CALL** AddTend()  
**CALL** DirTrans()

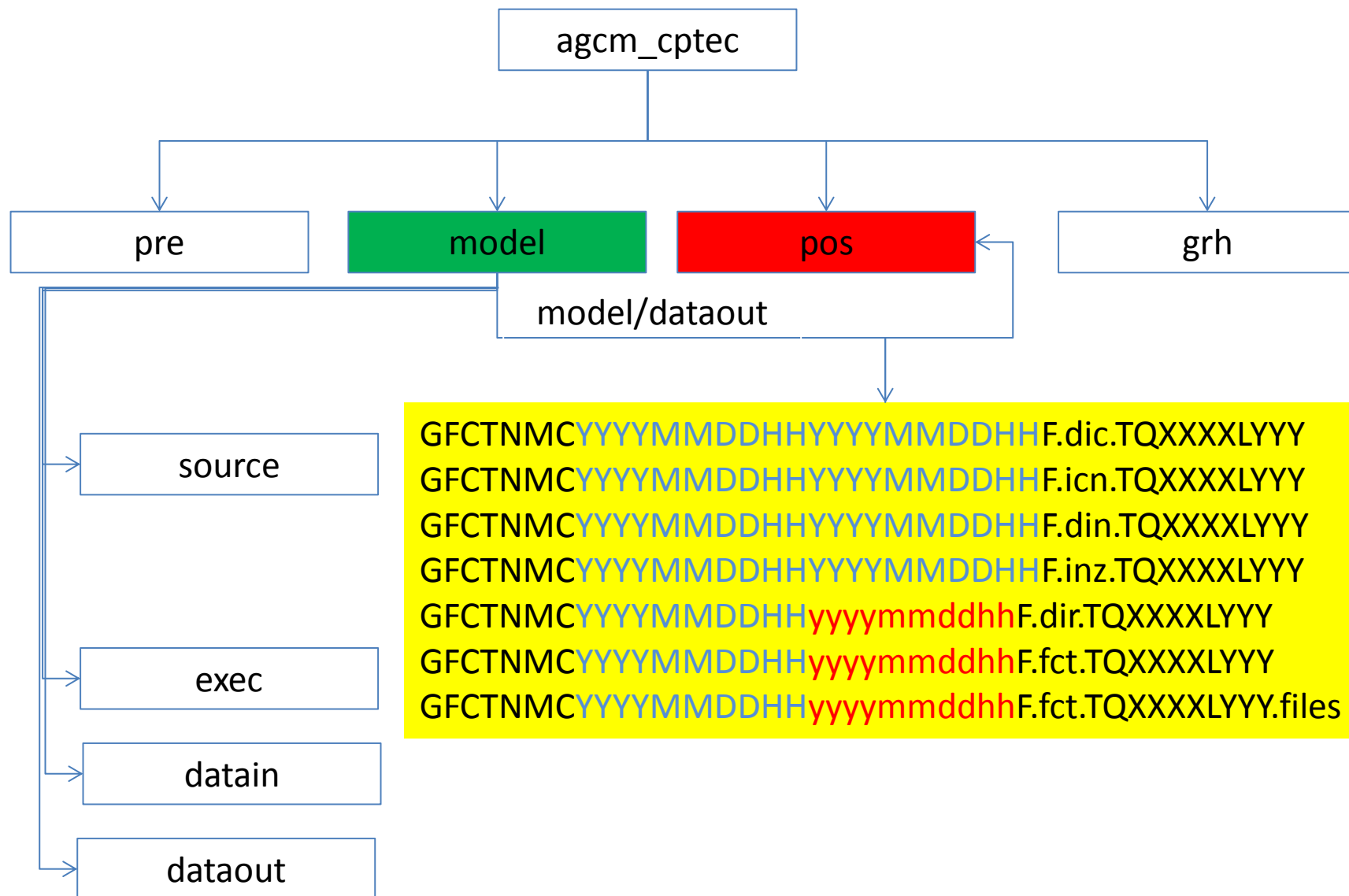
**CALL** SemImpl()

**CALL** HumidBackTrans  
**CALL** MCGASourcesDriver  
**CALL** HumidPhysics  
**CALL** TimeFilterStep1  
**CALL** HumidDirTrans

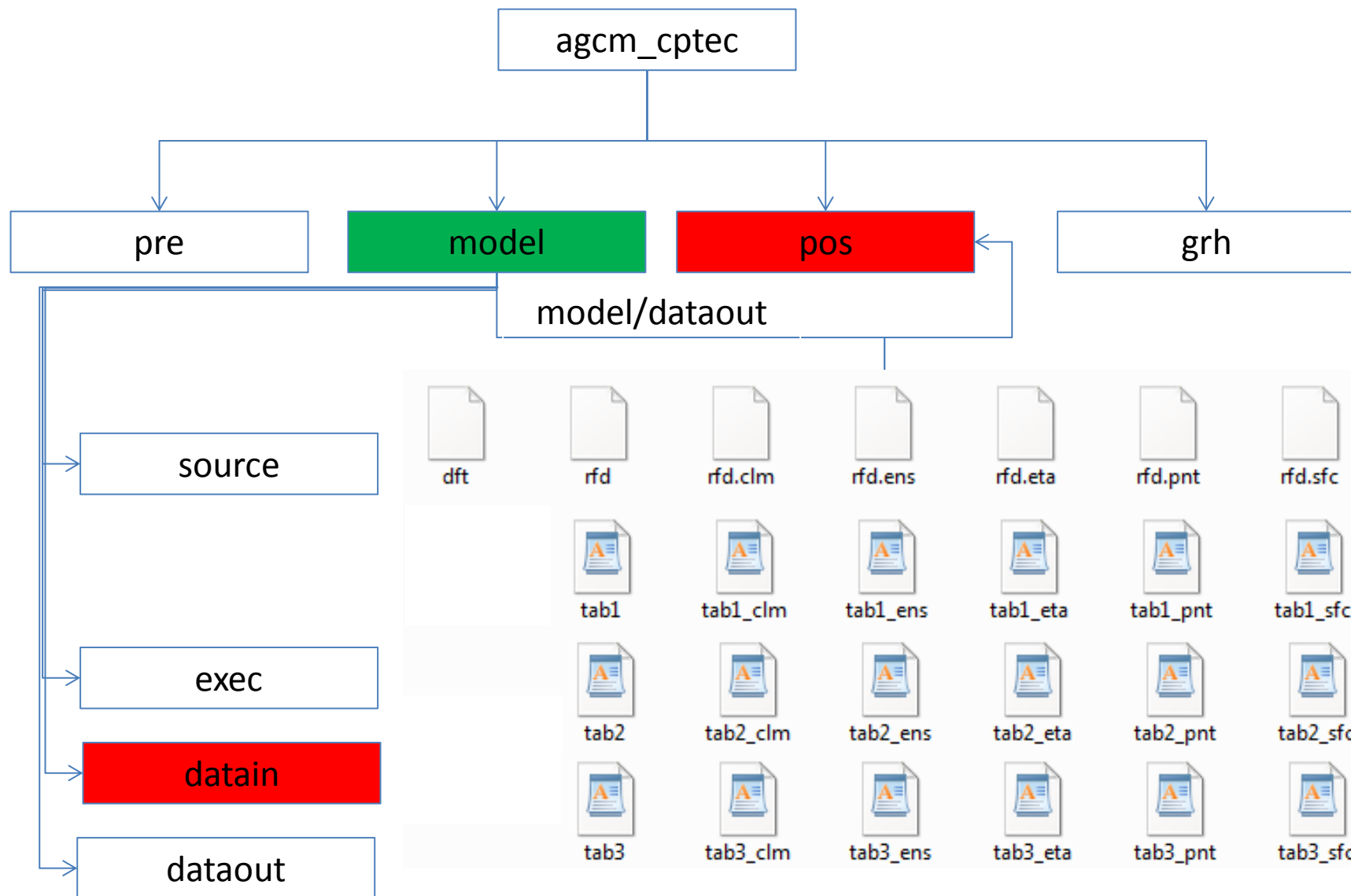
**CALL** ImplDifu

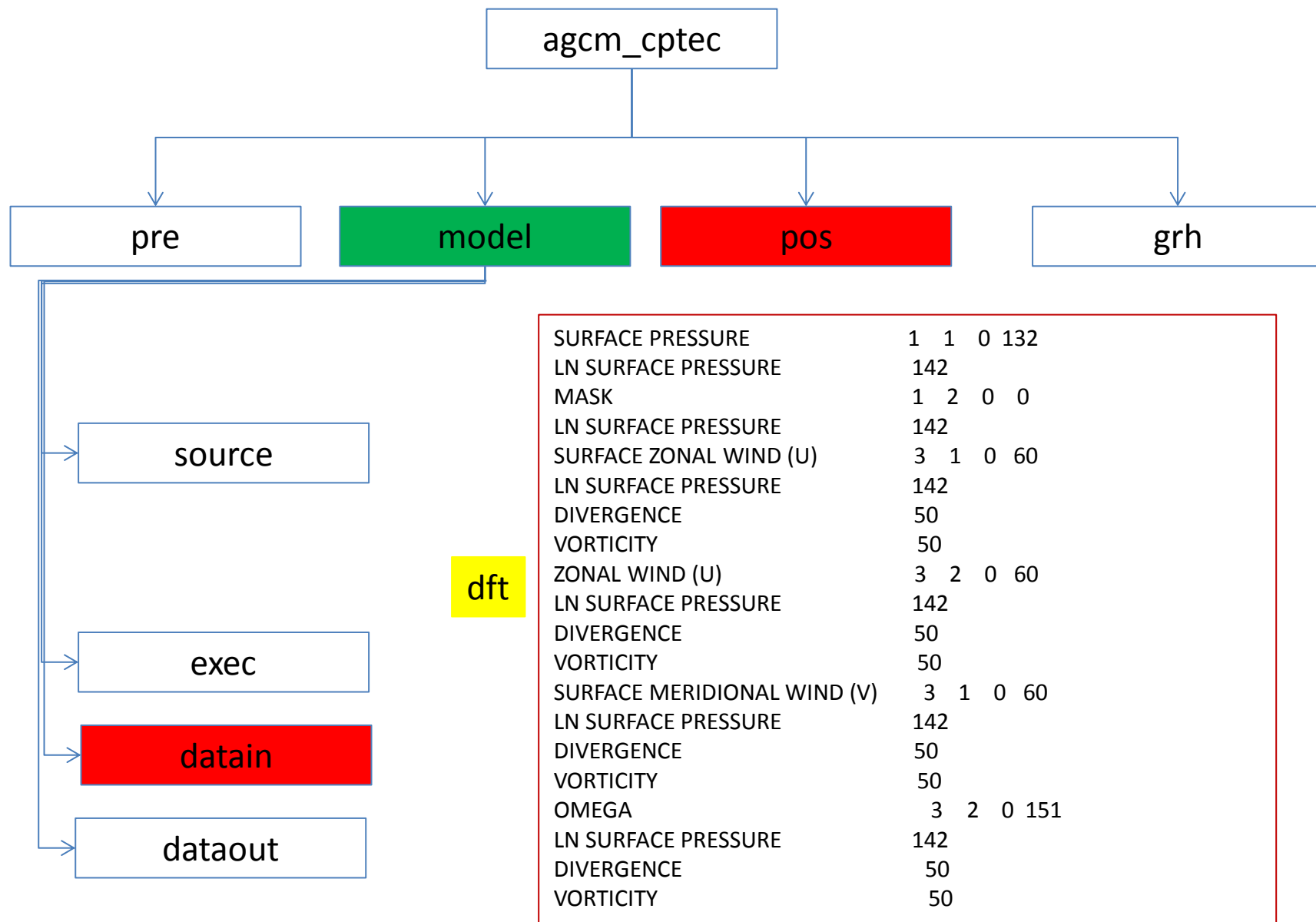


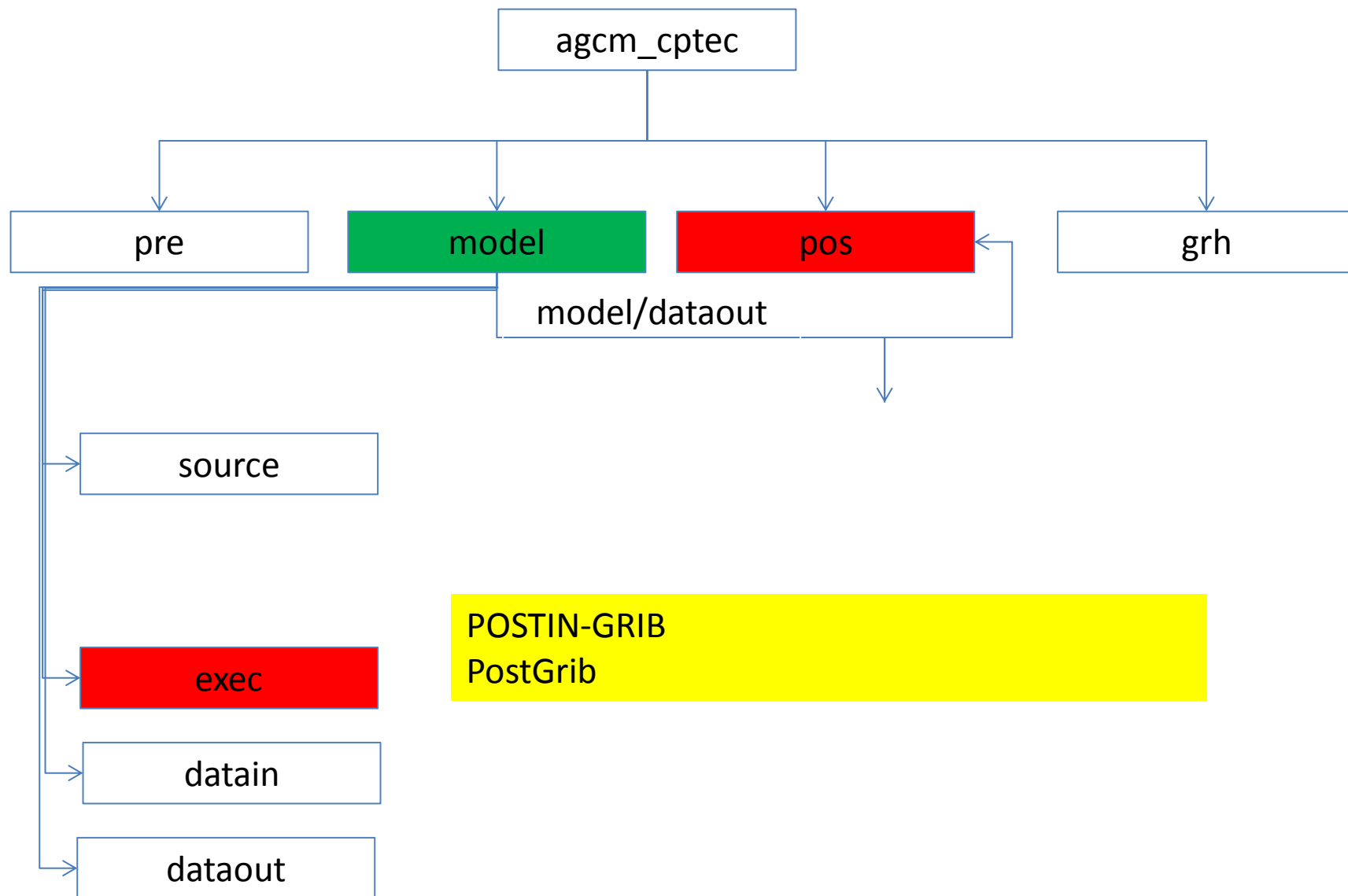
## **Estrutura do Pos-Processamento AGCM-CPTEC/INPE**

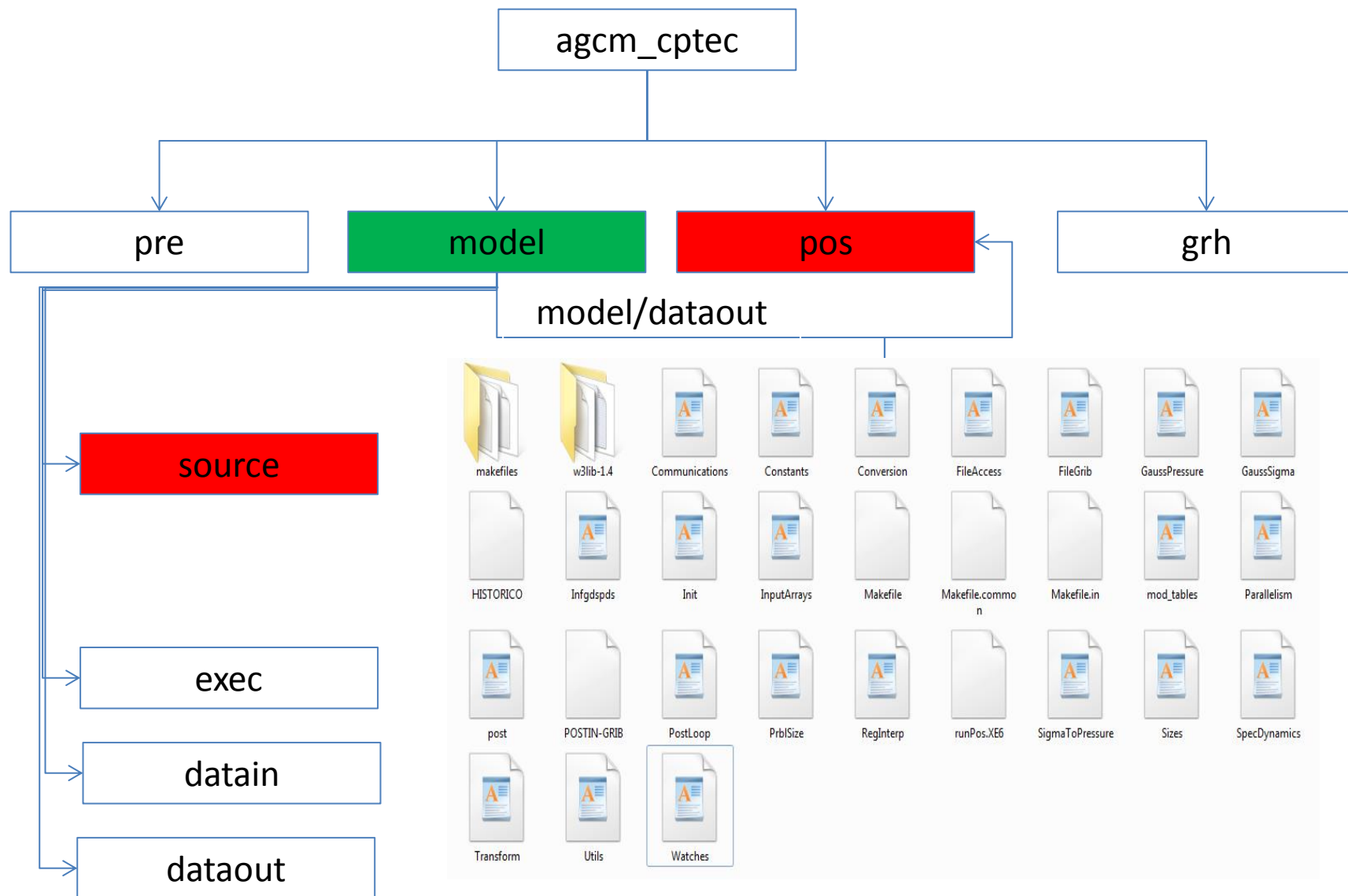


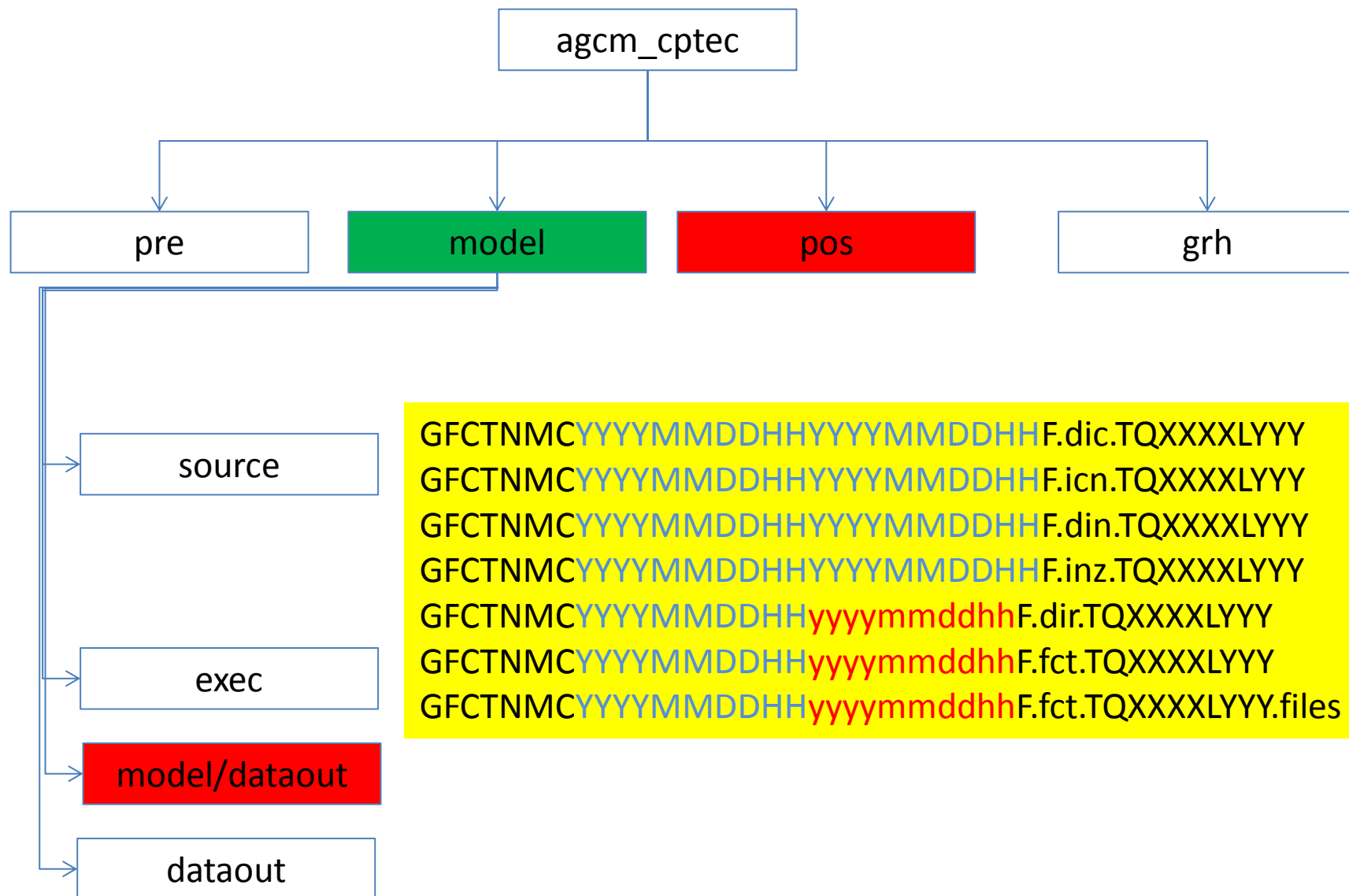
GFCTNMCYYYYMMDDHHYYYYMMDDHHF.dic.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.icn.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.din.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.inz.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.dir.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY.files





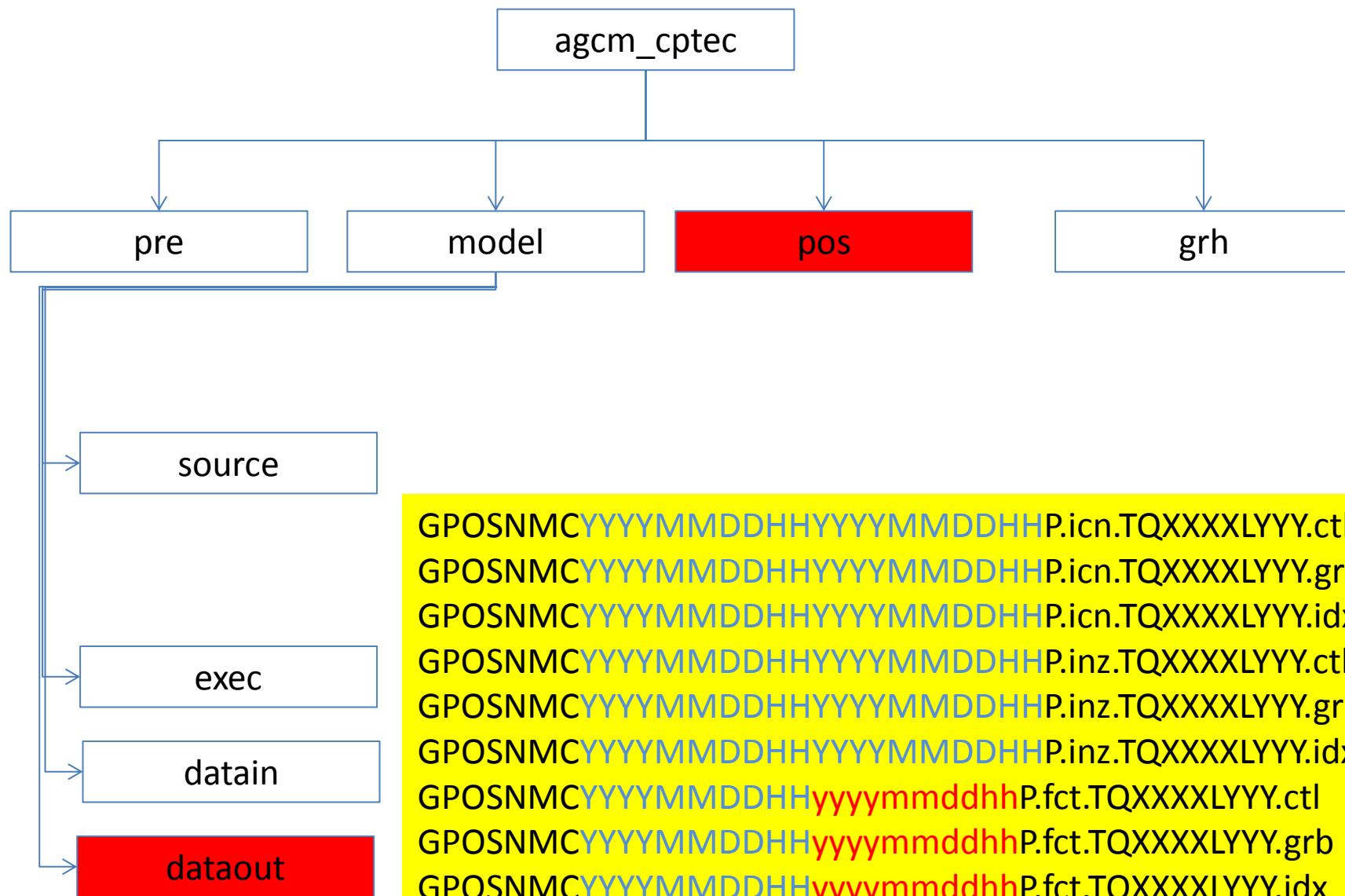






GFCTNMCYYYYMMDDHHYYYYMMDDHHF.dic.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.icn.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.din.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHYYYYMMDDHHF.inz.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.dir.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY  
 GFCTNMCYYYYMMDDHHyyyymmddhhF.fct.TQXXXXLYYY.files



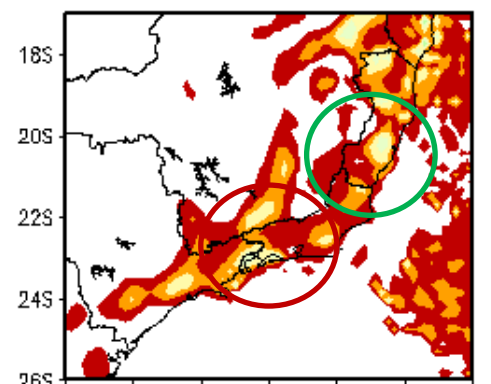
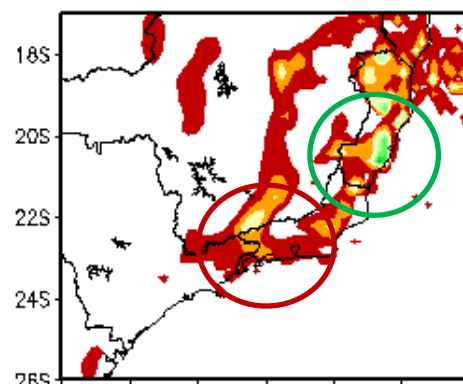
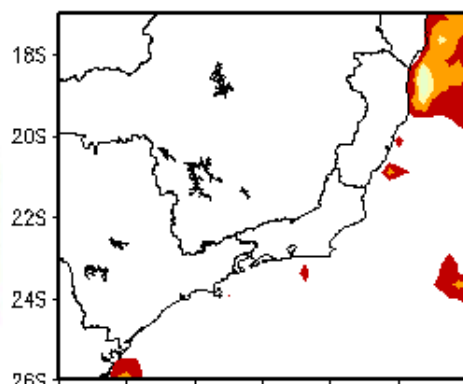
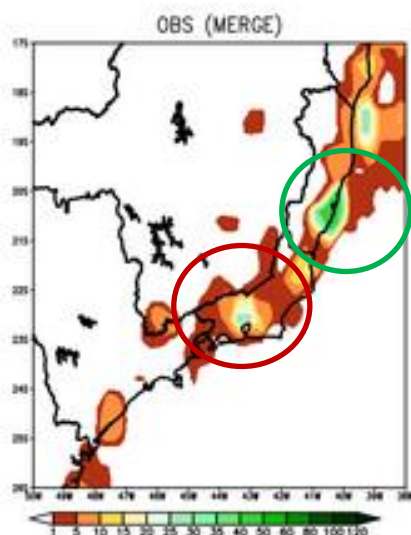


Prec.Acum.(T666L64-20km) para 12z 25/Jun/2015 quinta-feira

TRMM3B42

24h

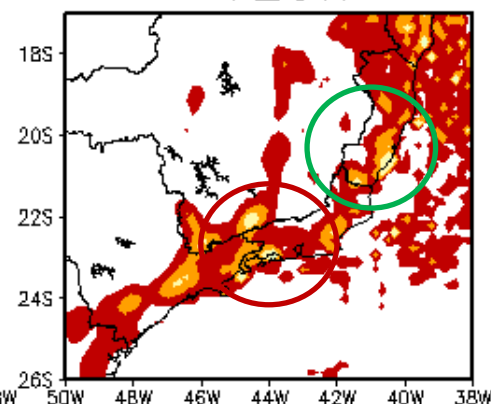
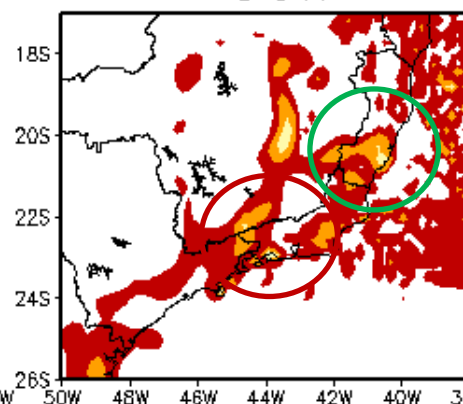
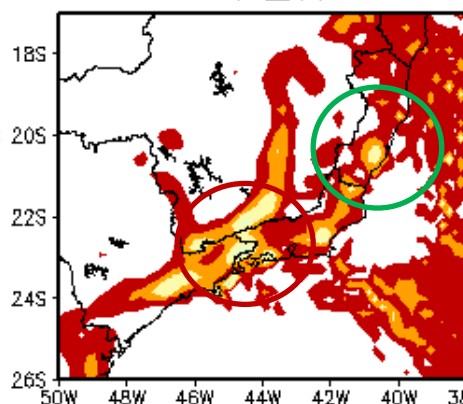
48h



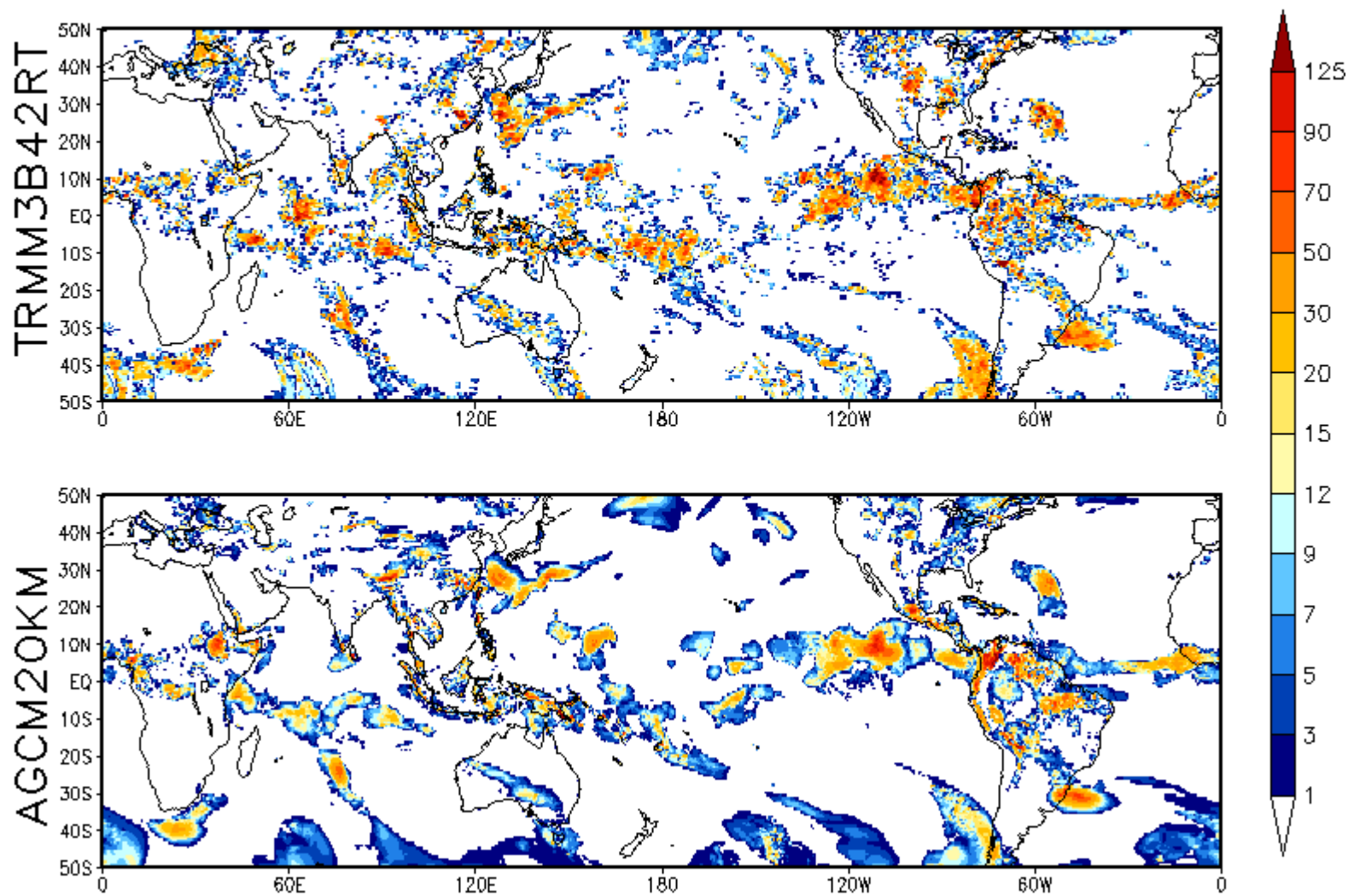
72h

96h

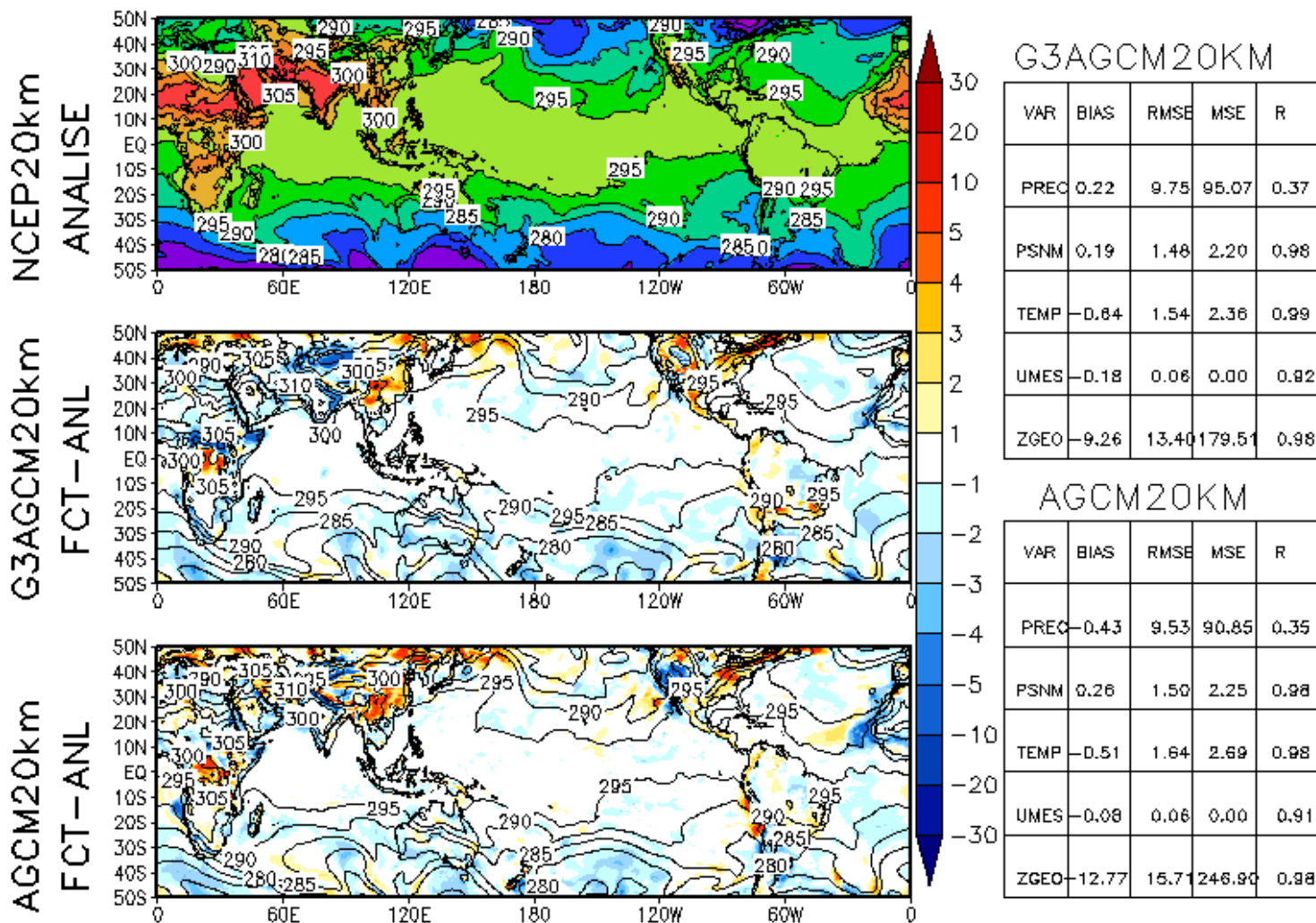
120h



Condicao Inicial 12z27may2015 FCT=24h  
Precipitacao 12z27may2015–12z28may2015



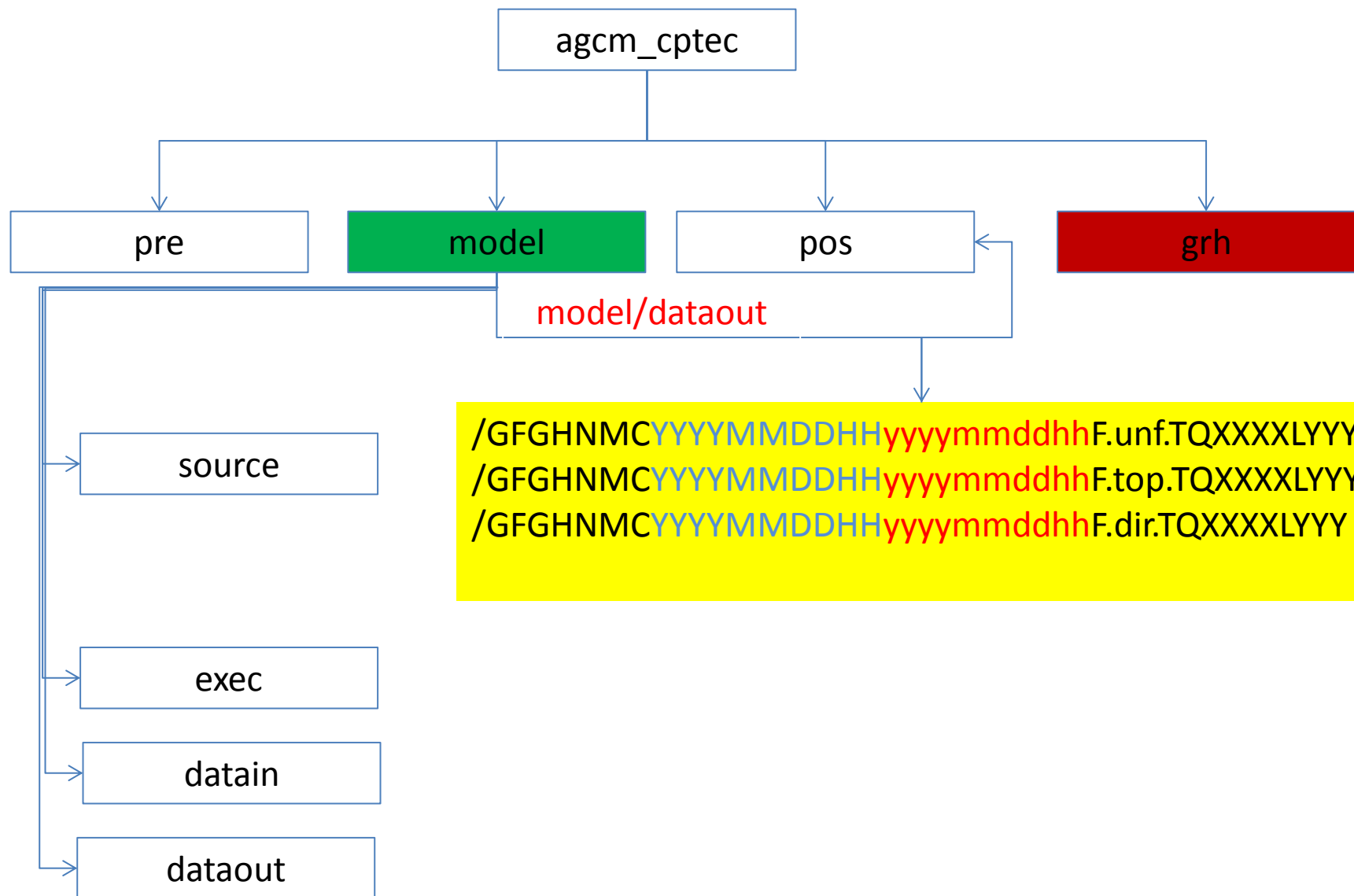
Condicao Inicial 12z30may2015 FCT=24h  
VirtualTemperature 12z31may2015

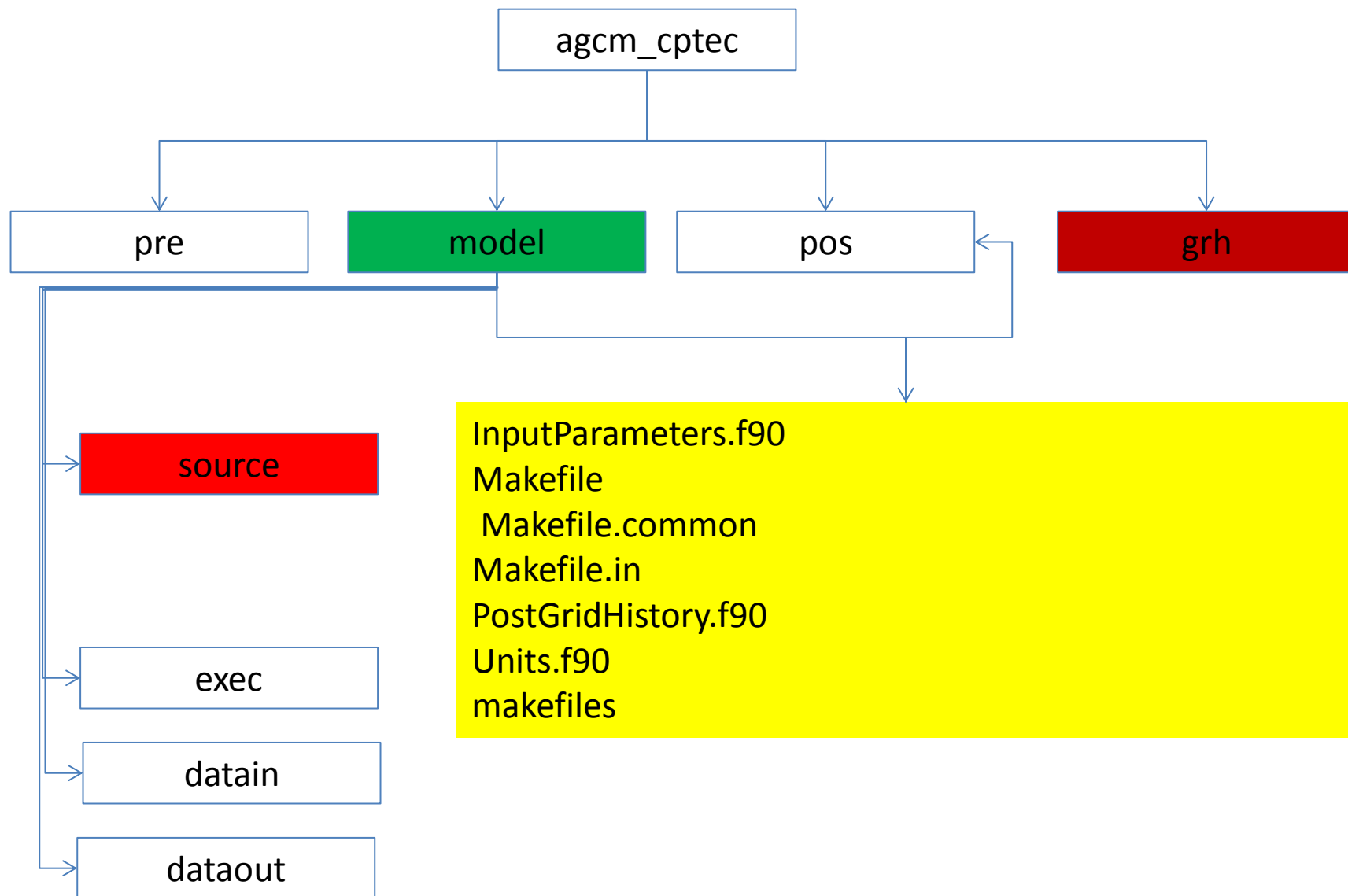




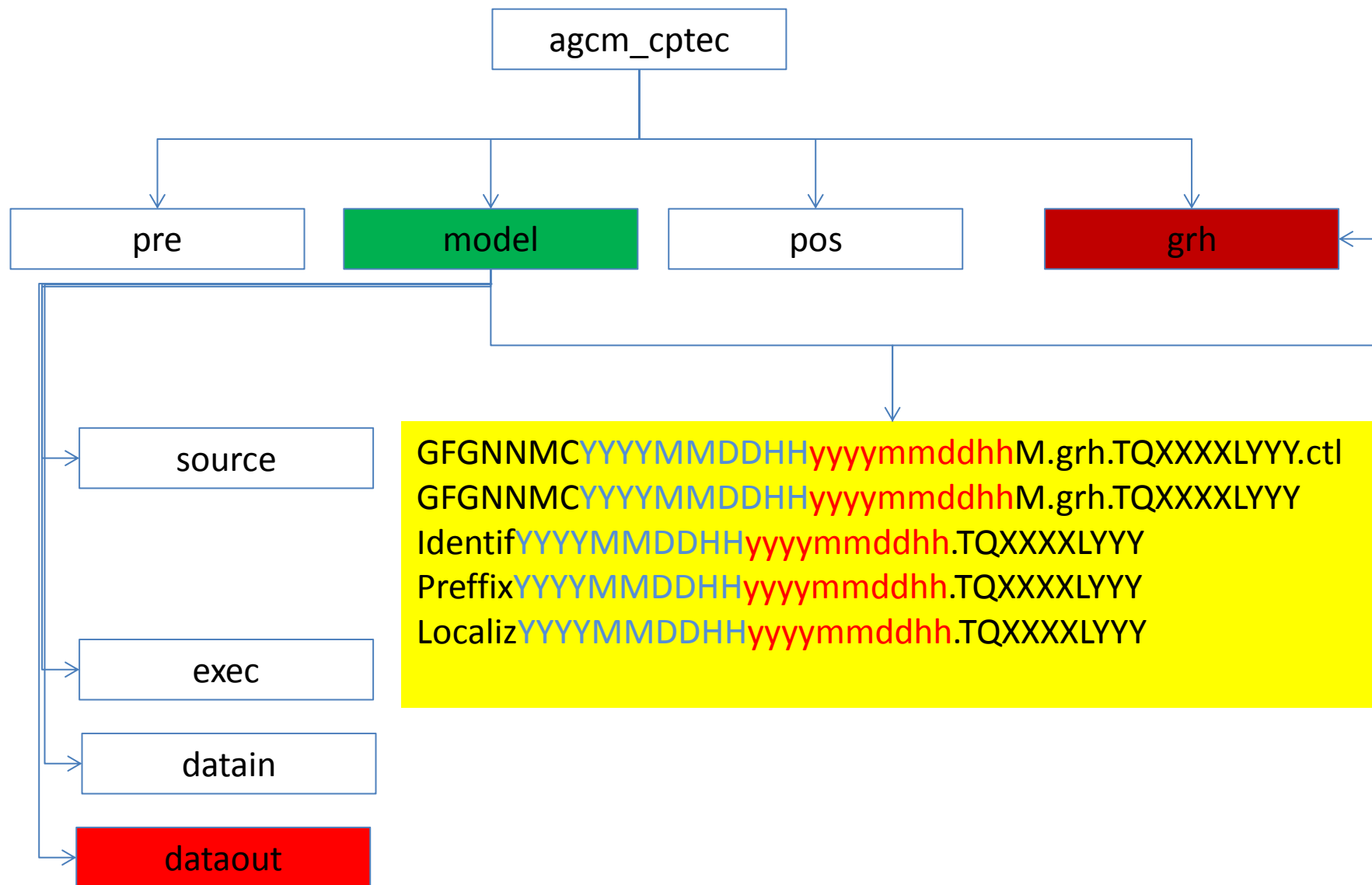


## **Estrutura do Pos-GridHistory AGCM-CPTEC/INPE**





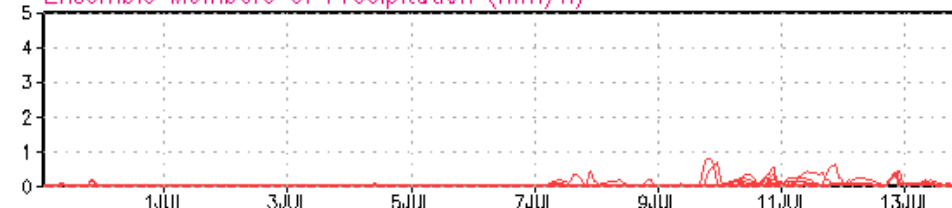




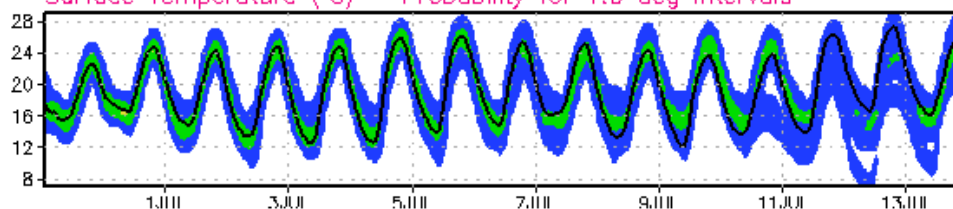
PROBABILITY PLUMES - GLOBAL ENSEMBLE FORECAST - TQ0126L028  
CPTEC: 047:49W-15:26S BRASILIA (DF)  
29JUN2015 00Z: Greenwich Meridian Time: Vertical Dotted Line: Midnight

1 - 20 % 20 - 40 % 40 - 60 % 60 - 80 % 80 - 100 %  
Model Altitude: 853 m Control Forecast

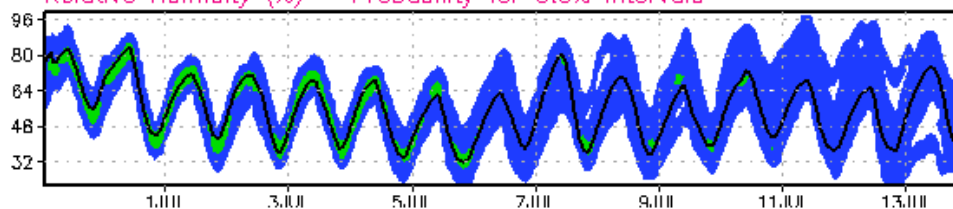
Ensemble Members of Precipitation (mm/h)



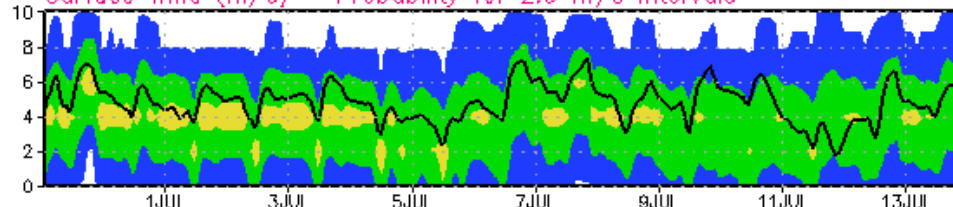
Surface Temperature ( $^{\circ}\text{C}$ ) - Probability for 1.0 deg intervals



Relative Humidity (%) - Probability for 3.0% intervals



Surface Wind (m/s) - Probability for 2.0 m/s intervals



Surface Pressure (hPa) - Probability for 3.0 hPa intervals

