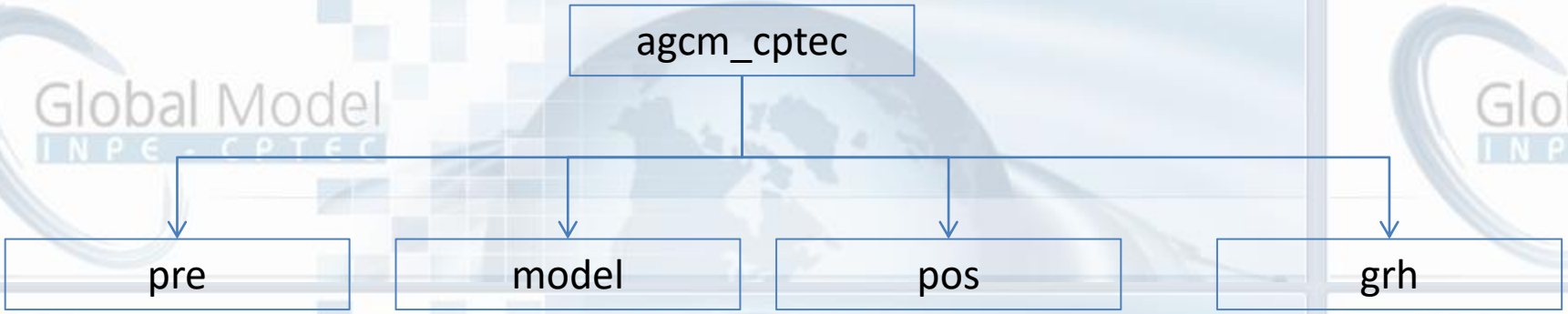
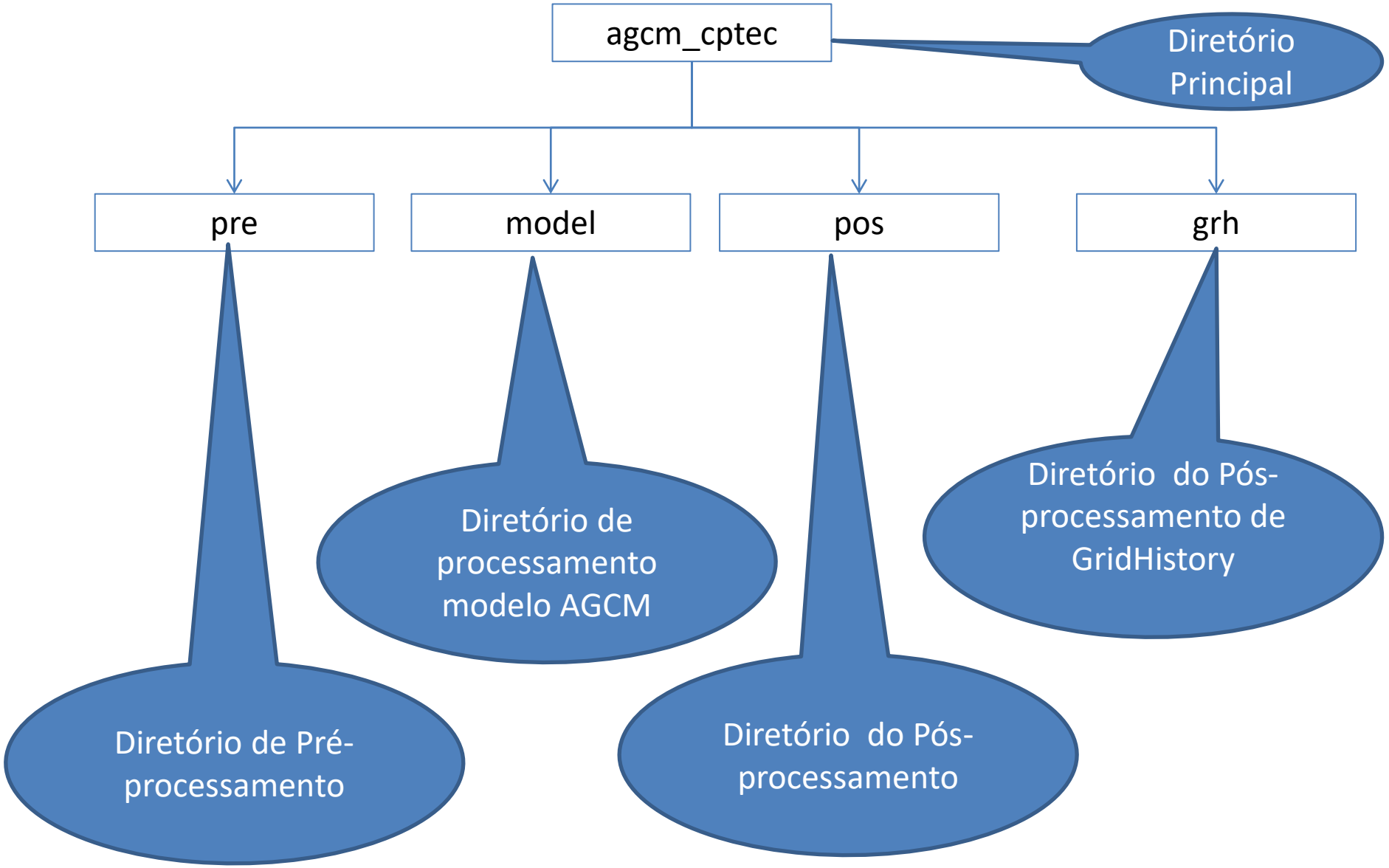
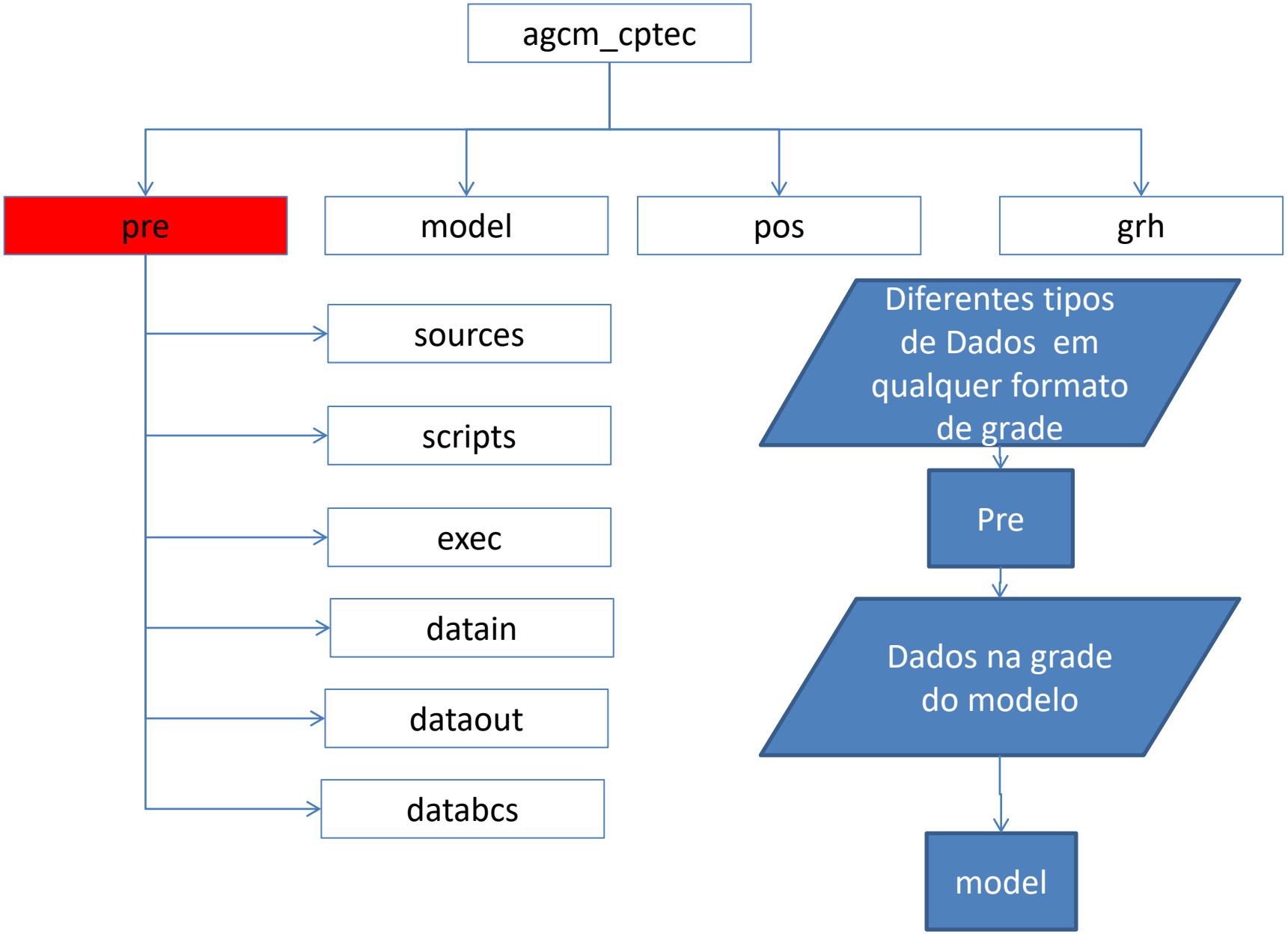


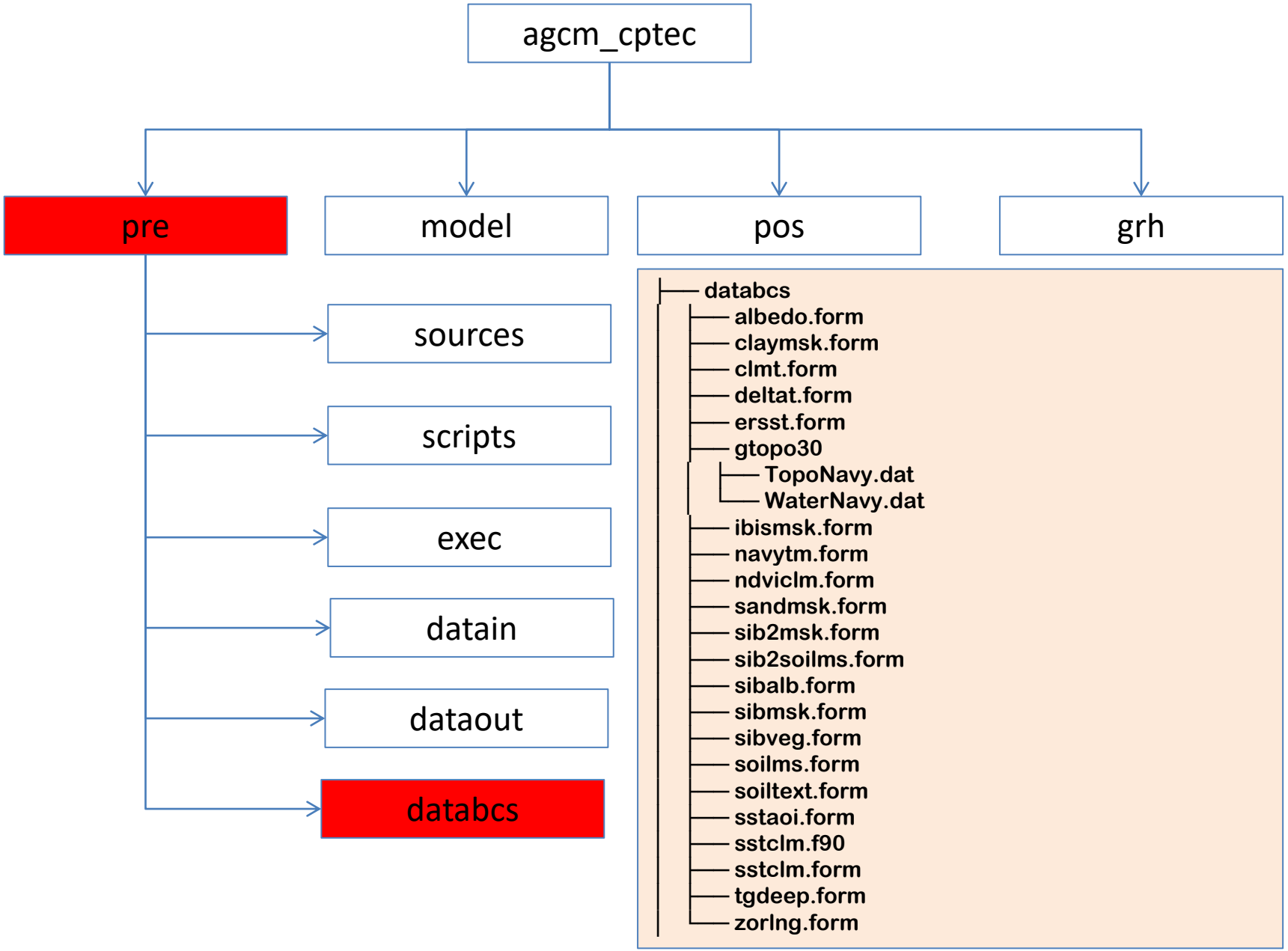
Estrutura do AGCM-CPTEC/INPE

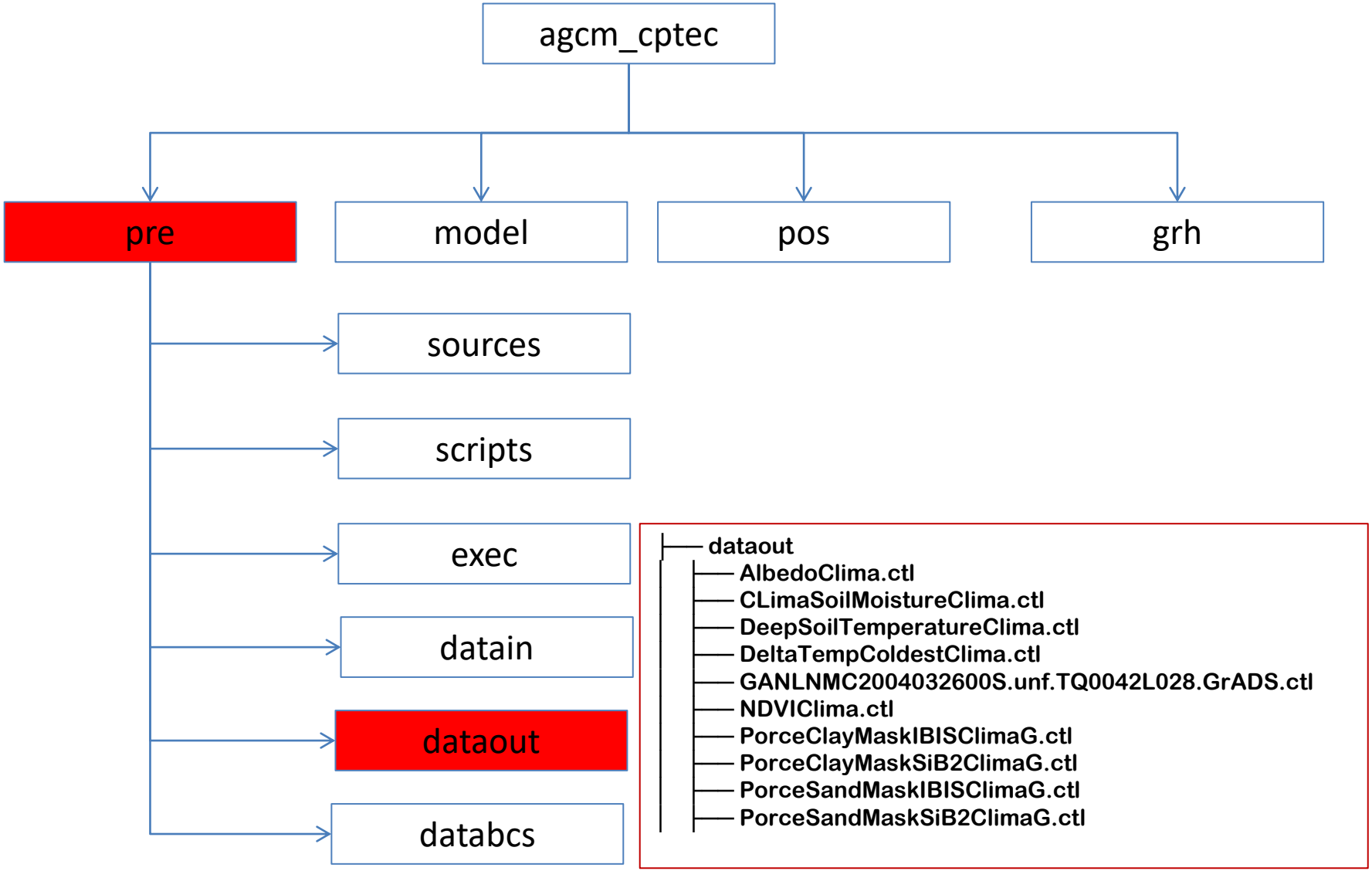
Paulo Yoshio Kubota

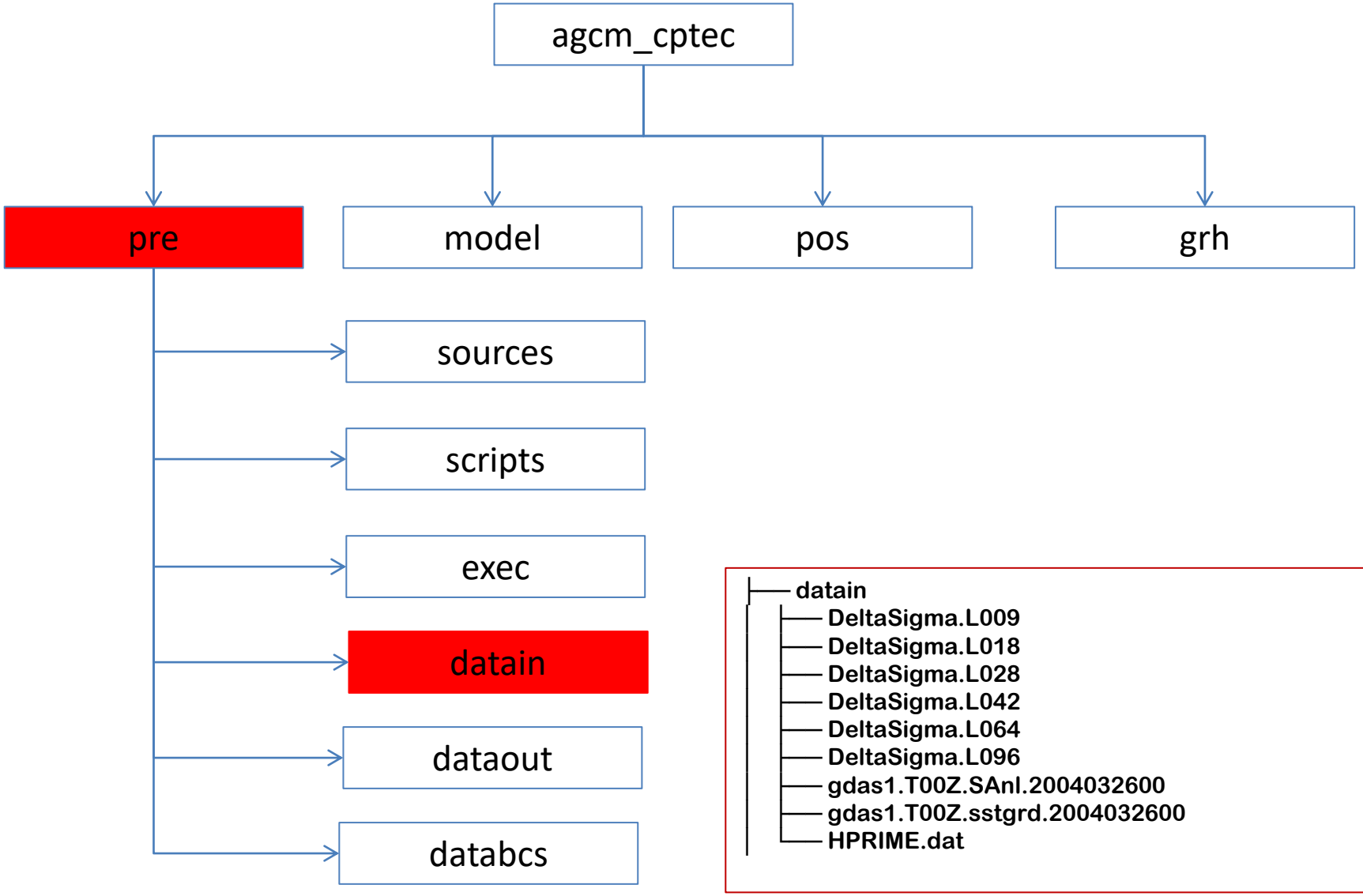
04/2015

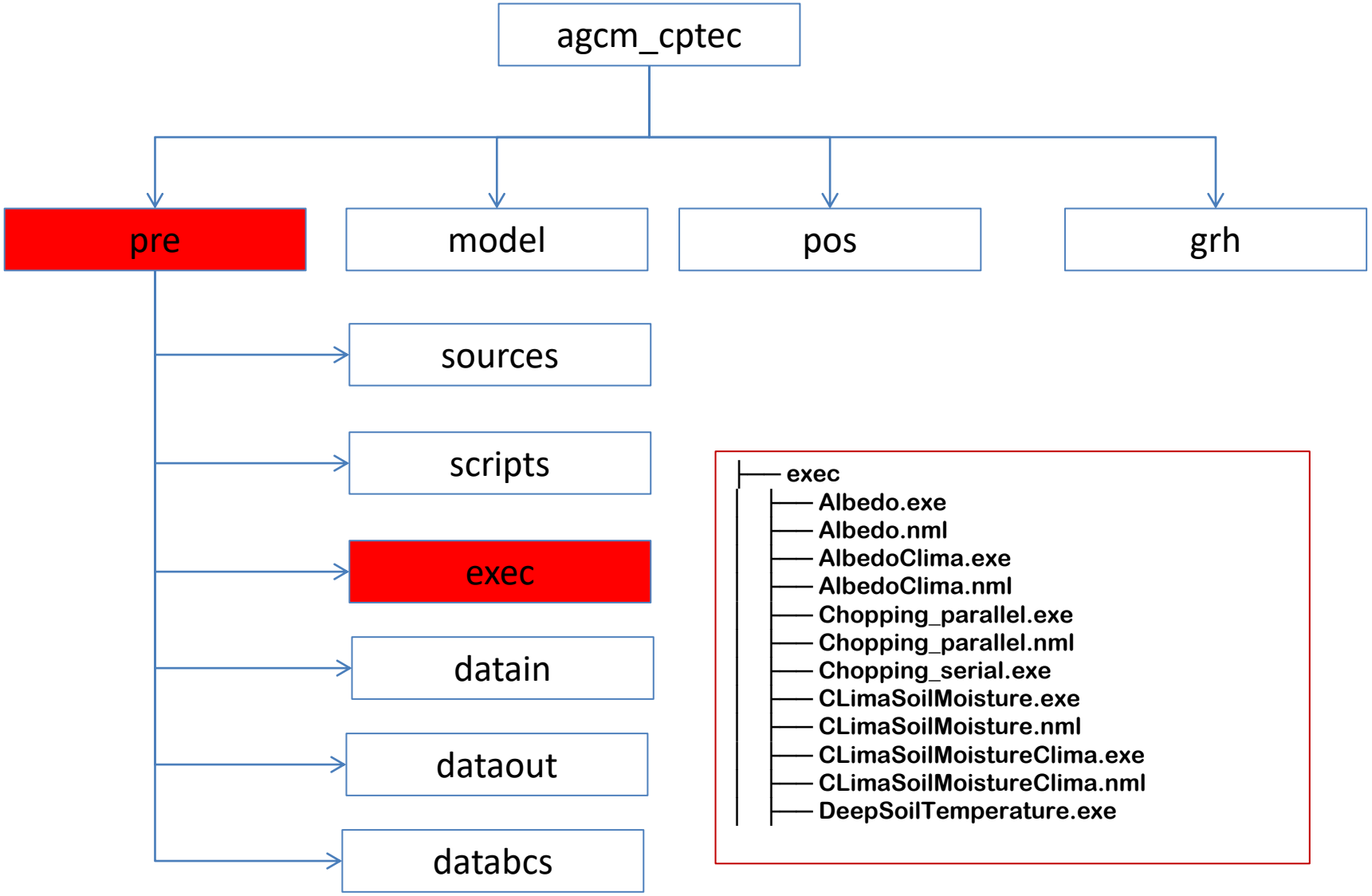

agcm_cptec
Diretório Principal
pre
model
pos
grh
Diretório de Pré-processamento
Diretório de processamento modelo AGCM
Diretório do Pós-processamento
Diretório do Pós-processamento de GridHistory

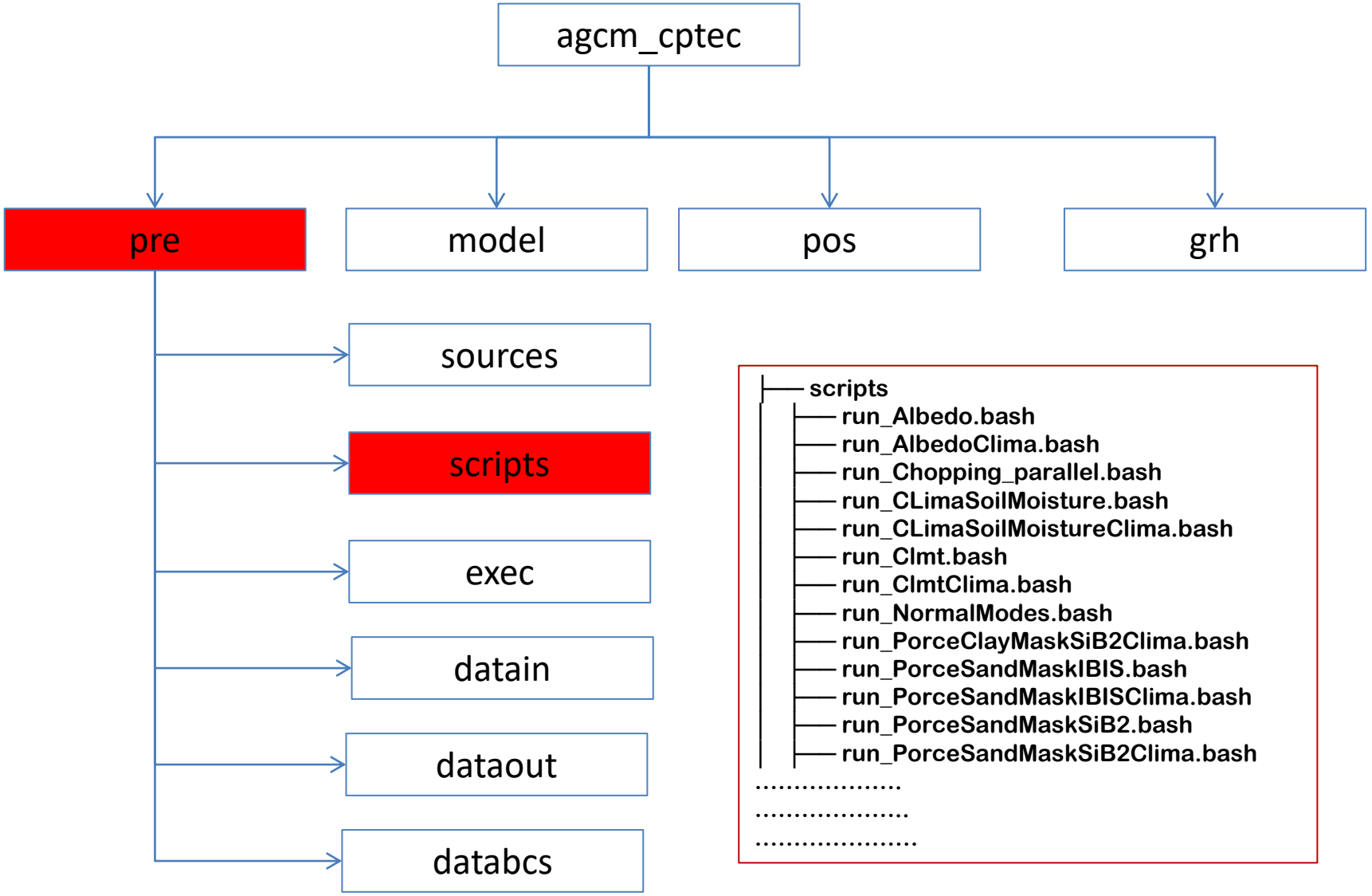

agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
Diferentes tipos de Dados em qualquer formato de grade
Pre
Dados na grade do modelo
model


agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
databcs
albedo.form
claymsk.form
clmt.form
deltat.form
ersst.form
gtopo30
TopoNavy.dat
WaterNavy.dat
ibismsk.form
navytm.form
ndviclm.form
sandmsk.form
sib2msk.form
sib2soilms.form
sibalb.form
sibmsk.form
sibveg.form
soilms.form
soiltext.form
sstaoi.form
sstclm.f90
sstclm.form
tgdeep.form
zorlng.form


agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
dataout
AlbedoClima.ctl
CLimaSoilMoistureClima.ctl
DeepSoilTemperatureClima.ctl
DeltaTempColdestClima.ctl
GANLNMC2004032600S.unf.TQ0042L028.GrADS.ctl
NDVIClima.ctl
PorceClayMaskIBISClimaG.ctl
PorceClayMaskSiB2ClimaG.ctl
PorceSandMaskIBISClimaG.ctl
PorceSandMaskSiB2ClimaG.ctl

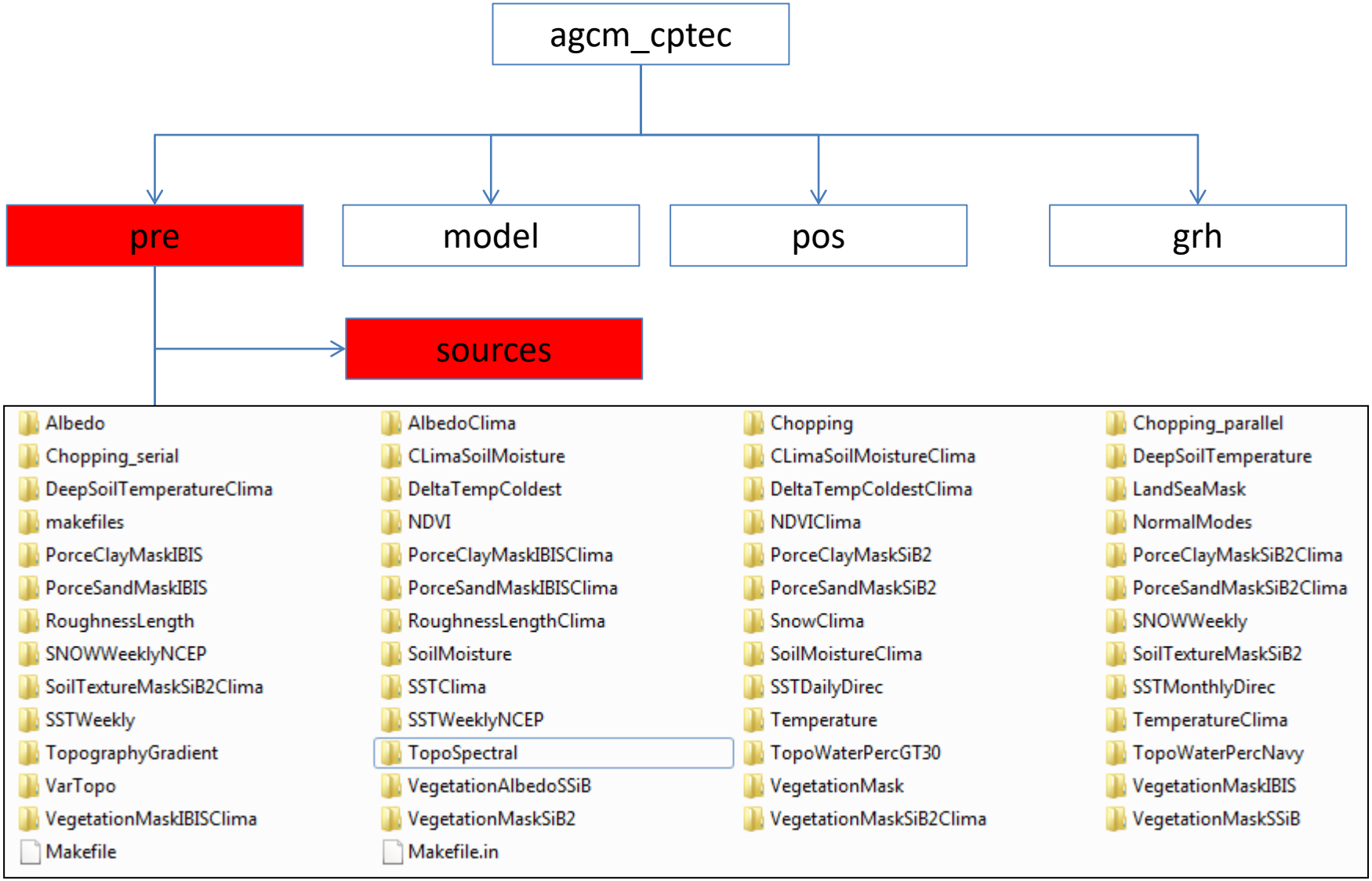

agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
datain
DeltaSigma.L009
DeltaSigma.L018
DeltaSigma.L028
DeltaSigma.L042
DeltaSigma.L064
DeltaSigma.L096
gdas1.T00Z.SAnl.2004032600
gdas1.T00Z.sstgrd.2004032600
HPRIME.dat

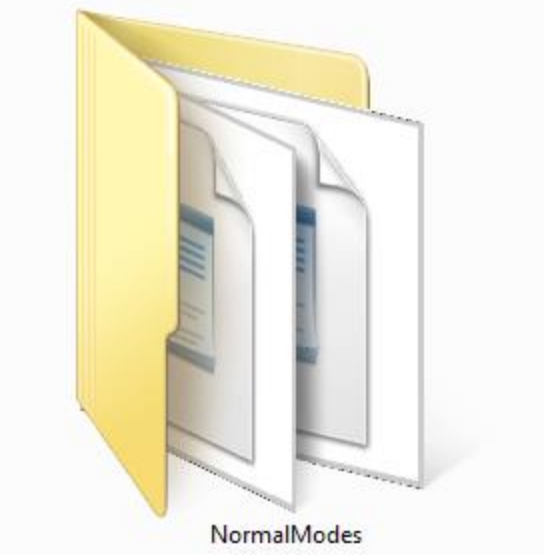

agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
exec
Albedo.exe
Albedo.nml
AlbedoClima.exe
AlbedoClima.nml
Chopping_parallel.exe
Chopping_parallel.nml
Chopping_serial.exe
CLimaSoilMoisture.exe
CLimaSoilMoisture.nml
CLimaSoilMoistureClima.exe
CLimaSoilMoistureClima.nml
DeepSoilTemperature.exe


agcm_cptec
pre
model
pos
grh
sources
scripts
exec
datain
dataout
databcs
scripts
run_Albedo.bash
run_AlbedoClima.bash
run_Chopping_parallel.bash
run_CLimaSoilMoisture.bash
run_CLimaSoilMoistureClima.bash
run_Clmt.bash
run_ClmtClima.bash
run_NormalModes.bash
run_PorceClayMaskSiB2Clima.bash
run_PorceSandMaskIBIS.bash
run_PorceSandMaskIBISClima.bash
run_PorceSandMaskSiB2.bash
run_PorceSandMaskSiB2Clima.bash
.....
.....
.....

```
#!/bin/bash
#
# script to run CPTEC Global Model on PC Clusters under MPI Scali
# 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
  Imax=${IM},      ! Number of Longitudes at Output Gaussian Grid
  Jmax=${JM},      ! Number of Latitudes at Output Gaussian Grid
  Idim=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 [[ (${MAQUI} = "Linux") || (${MAQUI} = "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
```


agcm_cptec
pre
model
pos
grh
sources
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

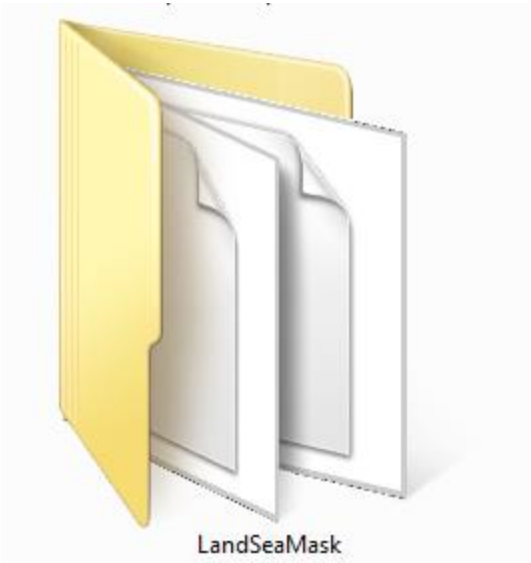


Nome	Data de modificaç...	Tipo	Tamanho
Eigen	19/08/2013 11:21	Arquivo F90	28 KB
HorizontalModes	19/08/2013 11:21	Arquivo F90	17 KB
InputParameters	03/12/2014 17:15	Arquivo F90	4 KB
Makefile	19/08/2013 11:21	Arquivo	1 KB
Makefile.common	19/08/2013 11:27	Arquivo COMMON	2 KB
NormalModes	02/12/2014 18:19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

pre/datain
DeltaSigma.LYYY

NormalModes

model/datain
NMI.TQXXXXLYYY



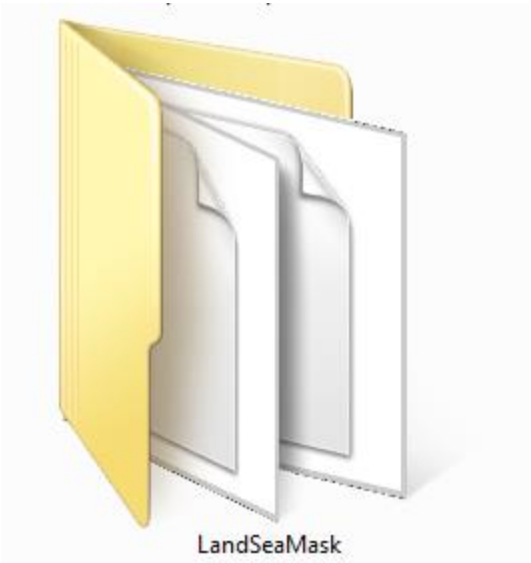
Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LandSeaMask	07/11/2012 15:42	Arquivo F90	6 KB
LandSeaMaskNavy.nml	07/11/2012 15:42	Arquivo NML	1 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012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

pre/datain
waterNavy.dat

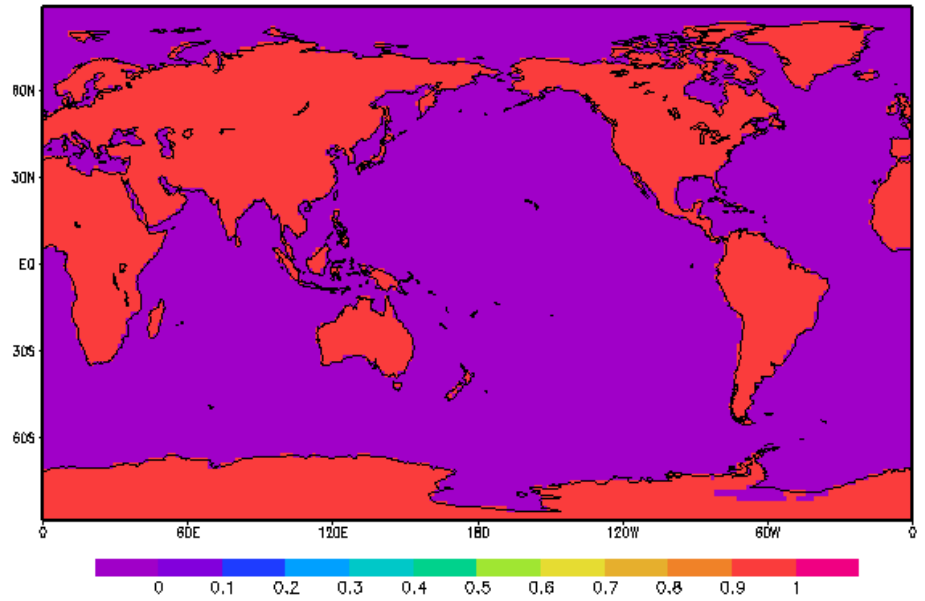
LandSeaMask

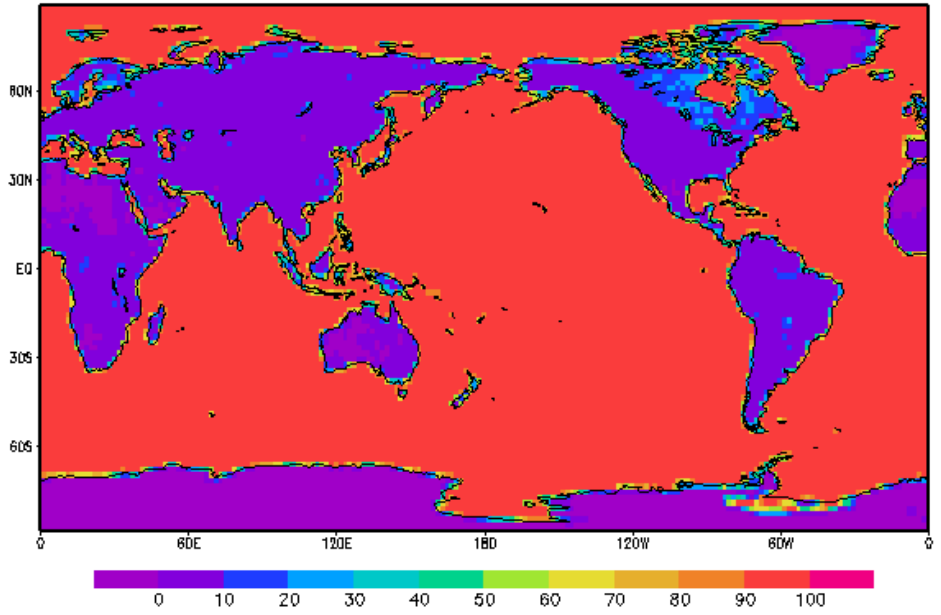
pre/dataout
LandSeaMask.GZZZZ

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

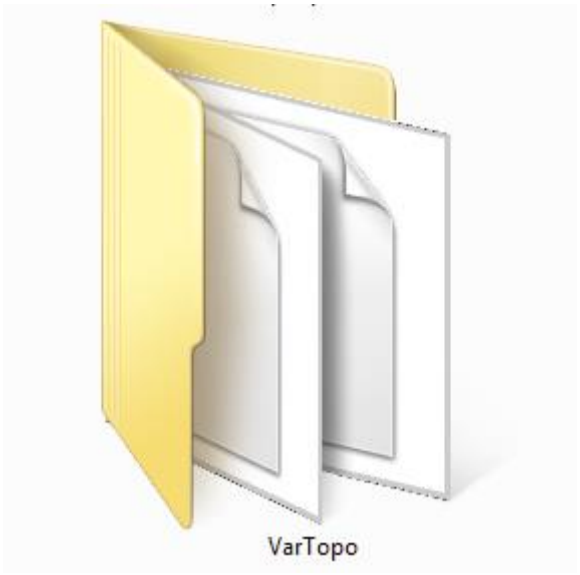


pre/dataout
LandSeaMaskNavy.GZZZZ.dat
LandSeaMaskNavy.GZZZZ.ctl





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



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

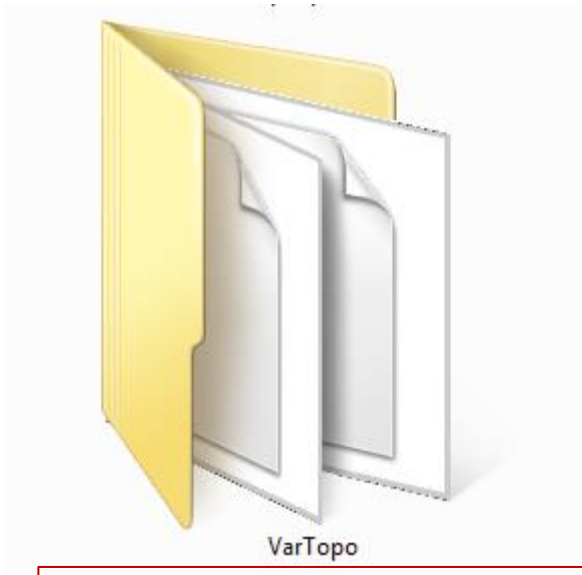
pre/datain
TopoNavy.dat

VarTopo

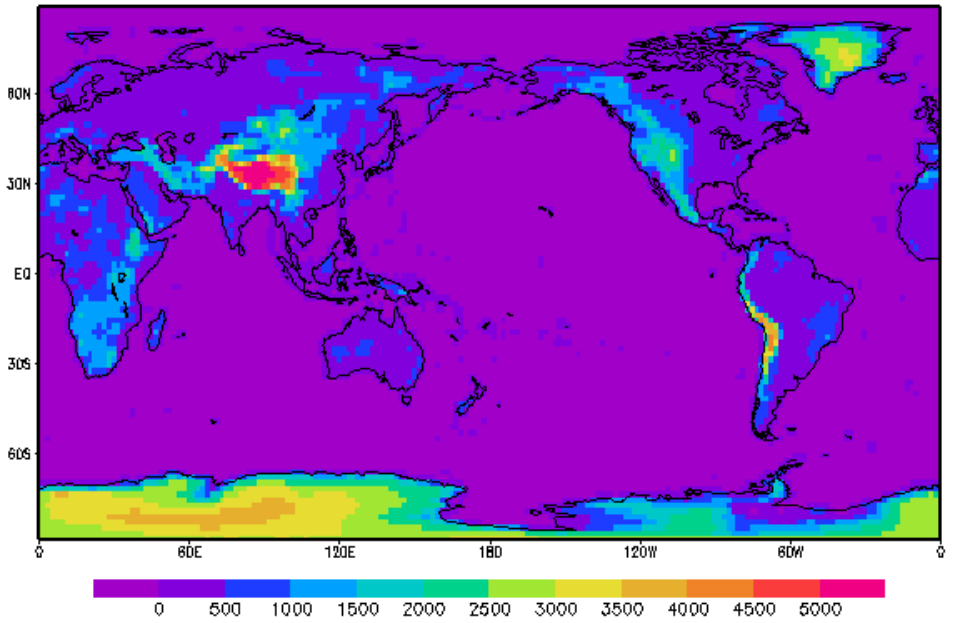
model/dataout
TopoVariance.GZZZZ

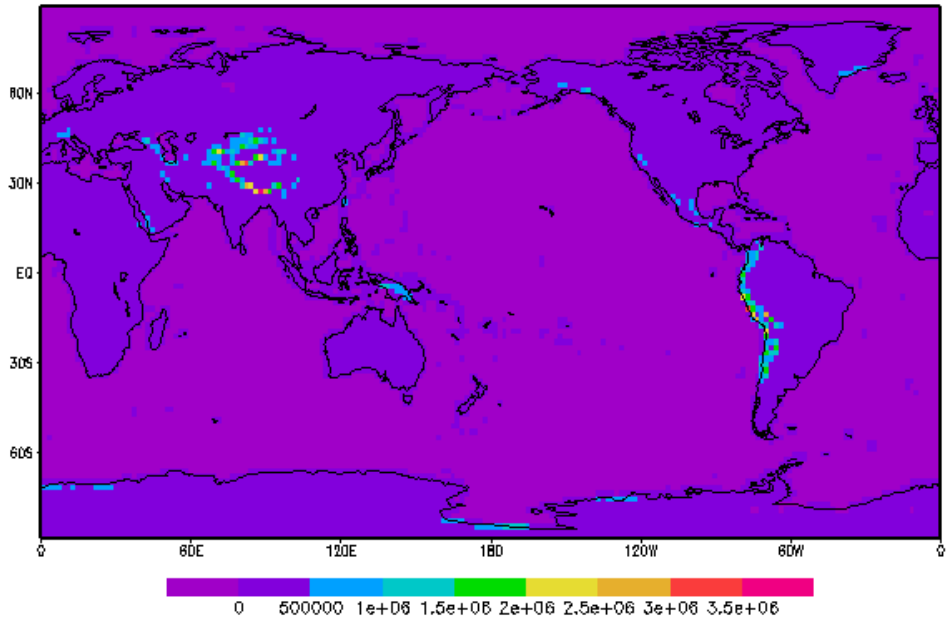
pre/dataout
Topography.GZZZZ

pre/dataout
VarTopoNavy.GZZZZ.ctl
VarTopoNavy.GZZZZ.dat



pre/dataout
VarTopoNavy.GZZZZ.ctl
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

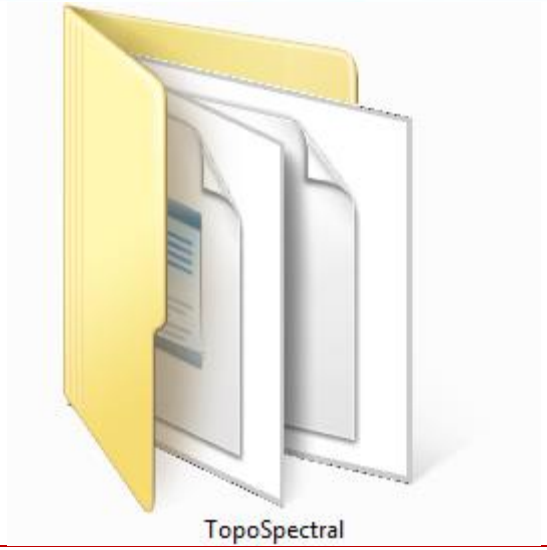
Nome	Data de modificaç...	Tipo	Tamanho
FastFourierTransform	07/11/2012 15:42	Arquivo F90	33 KB
InputParameters	07/11/2012 15:42	Arquivo F90	5 KB
LegendreTransform	07/11/2012 15:42	Arquivo F90	24 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
SpectralGrid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

pre/datain
Topography.GZZZZ

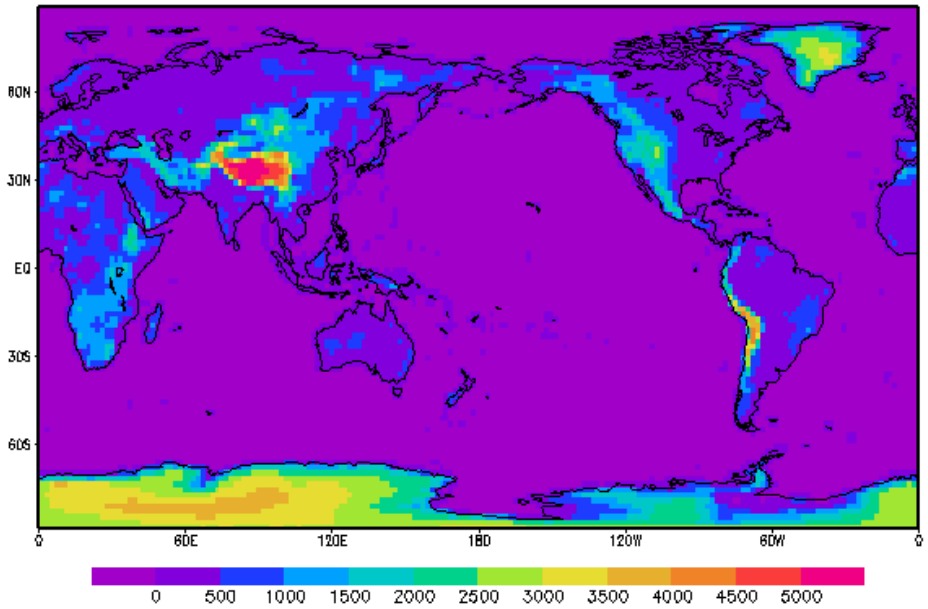
TopoSpectral

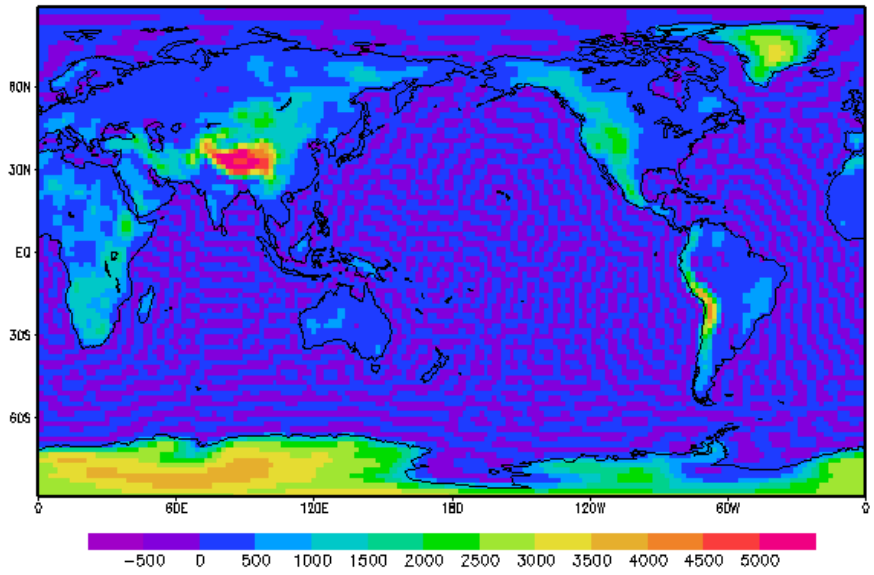
pre/dataout
Topography.TQXXXXX

pre/dataout
TopographyRec.GZZZZ.ctl
TopographyRec.GZZZZ.dat



pre/dataout
TopographyRec.GZZZZ.ctl
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

Global Model
INPE - CPTEC

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
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/datain
DeltaSigma.LZZZ

pre/dataout
Topography.TQXXXXX

Chopping_parallel

pre/dataout
OZONNMCYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS
TRACNMCYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS

pre/dataout
OZONSMTYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS
TRACSMTYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS

model/datain
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ
OZONNMCYYYYMMDDHHS.unf.TQYYYYLZZZ
TRACNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

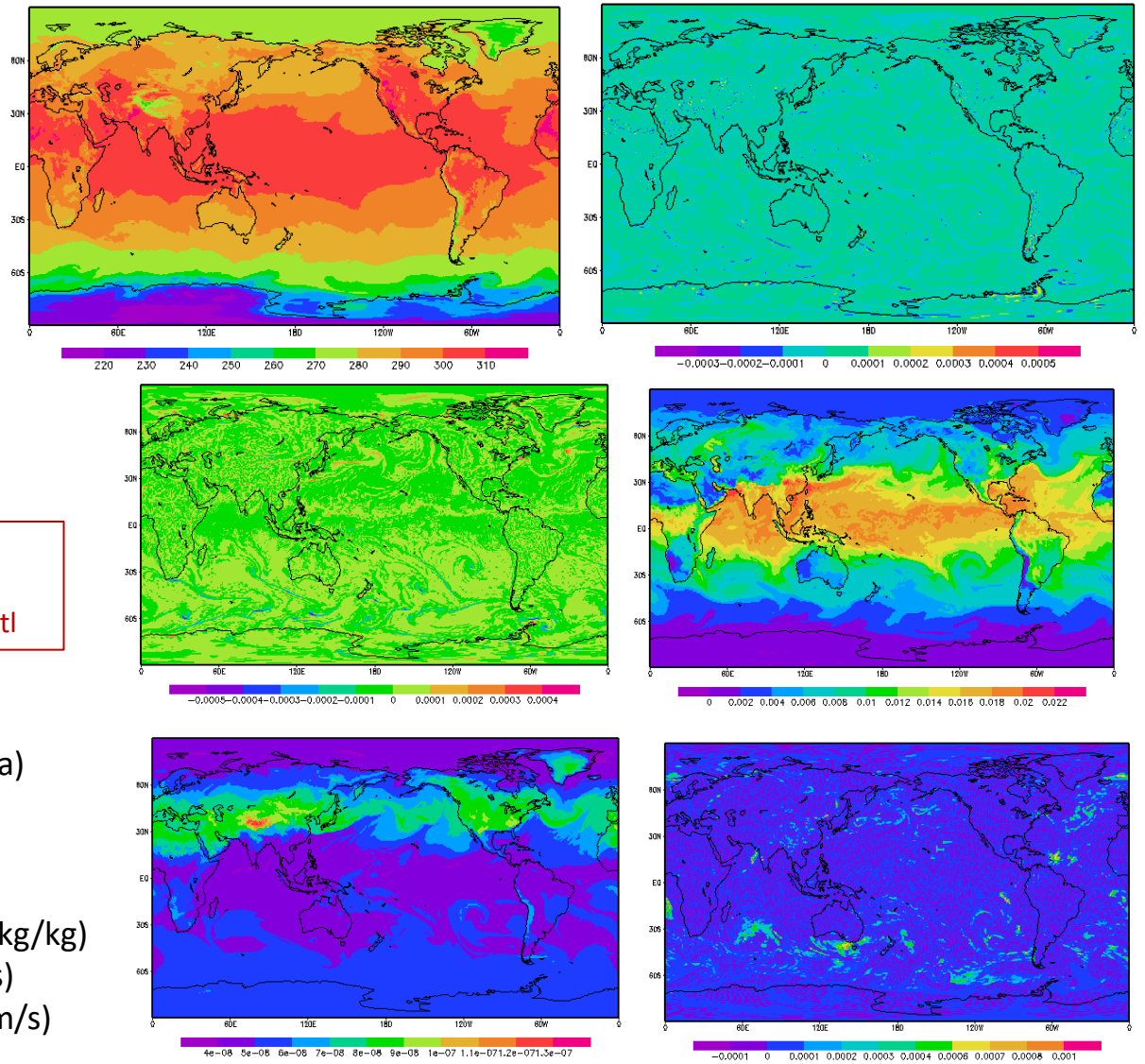
model/datain
GANLSMTYYYYMMDDHHS.unf.TQYYYYLZZZ
OZONSMTYYYYMMDDHHS.unf.TQYYYYLZZZ
TRACSMTYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/datain
gdas1.ThhZ.Sanl.YYYYMMDDHH

```
READ (UNIT=nficr) ForecastDay, TimeOfDay, DateInitial, &
                  DateCurrent, SigIInp, SigLInp
READ (UNIT=nficr) qTopoInp   ! topography
READ (UNIT=nficr) qLnPsInp  ! Ln Surface pressure
READ (UNIT=nficr) qTvirInp    ! Virtual Temperature
READ (UNIT=nficr) qDivgInp   ! Divergence
READ (UNIT=nficr) qVortInp   ! Vorticity
READ (UNIT=nficr) qSpHuInp  ! Specific  Humidity
READ (UNIT=nfozr) qOzonInp ! Ozone
READ (UNIT=nftrr) qTracerInp ! tracer
```

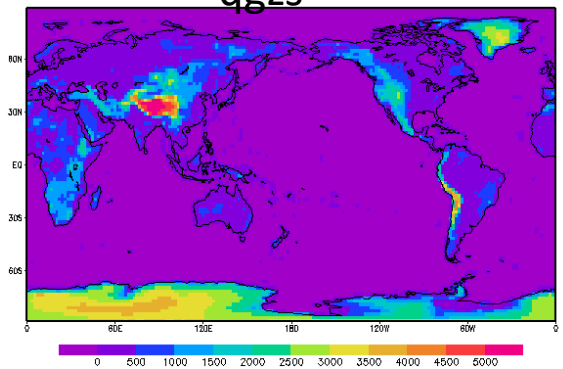
pre/dataout
GANLNMCYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS
GANLNMCYYYYMMDDHHS.grd.TQYYYYLZZZ.GrADS.ctl

vars 10
topo 0 99 Topography TQ1534L064 (m)
pslc 0 99 Surface Pressure TQ1534L064 (hPa)
tvir 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

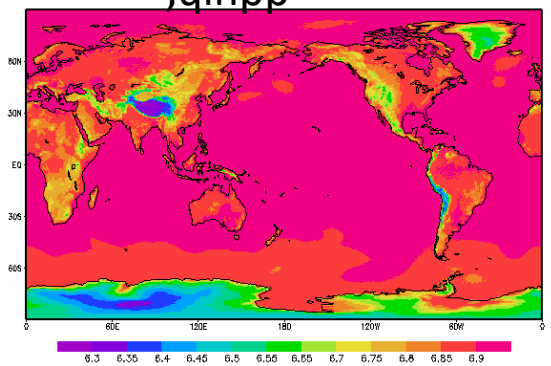


model/datain
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ
OZONNMCYYYYMMDDHHS.unf.TQYYYYLZZZ
TRACNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

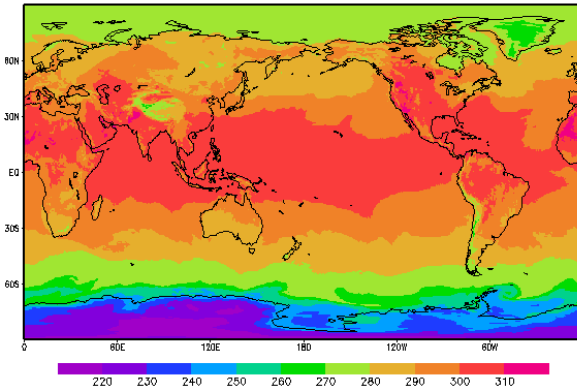
qggz



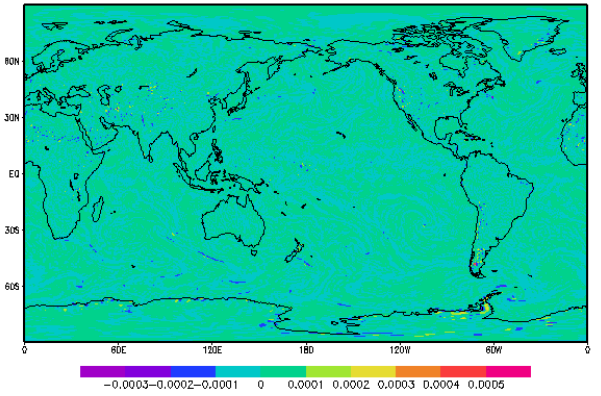
,qlnpp

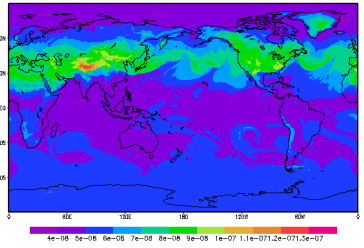


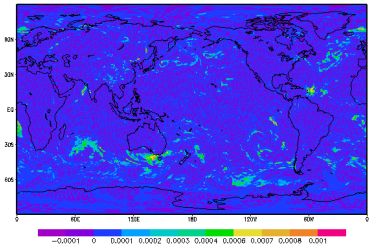
qtmpp



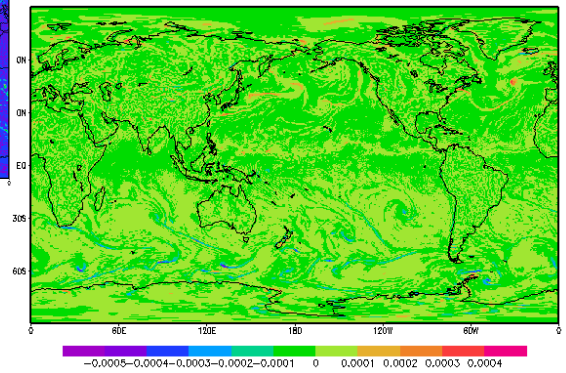
, qdivp



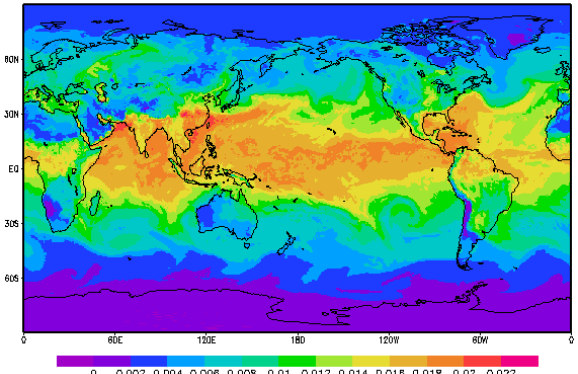


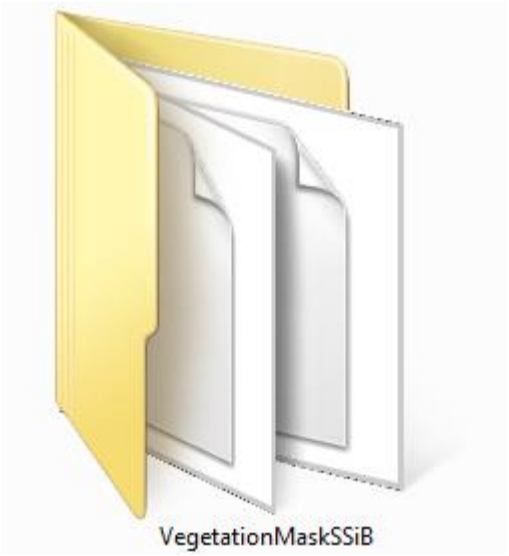


qrotp



, qqp





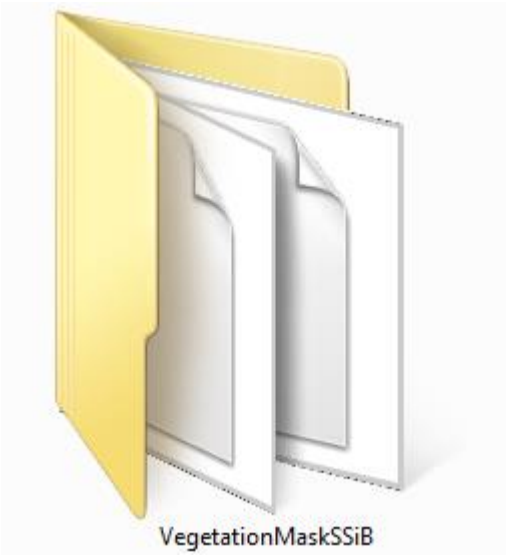
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationMaskSSiB	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs
sibmsk.form

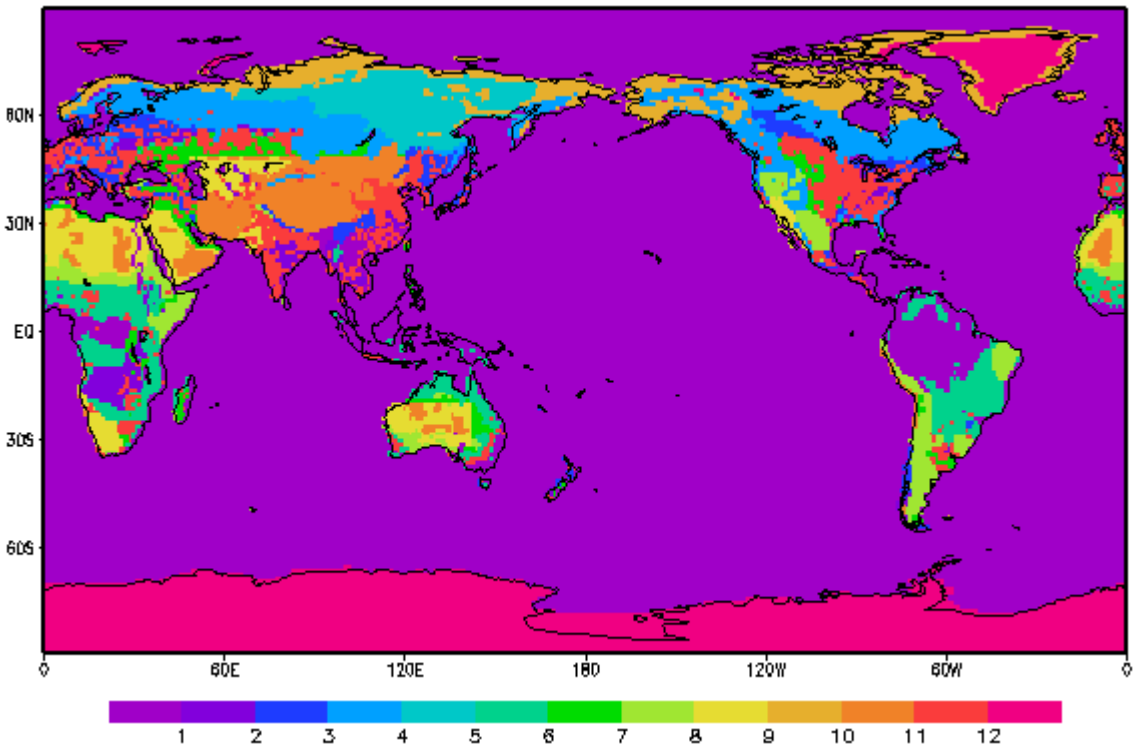
VegetationMaskSSiB

pre/dataout
VegetationMaskClima.dat

pre/dataout
VegetationMaskClimaG.dat
VegetationMaskClimaG.ctl



pre/dataout
VegetationMaskClimaG.dat
VegetationMaskClimaG.ctl



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

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

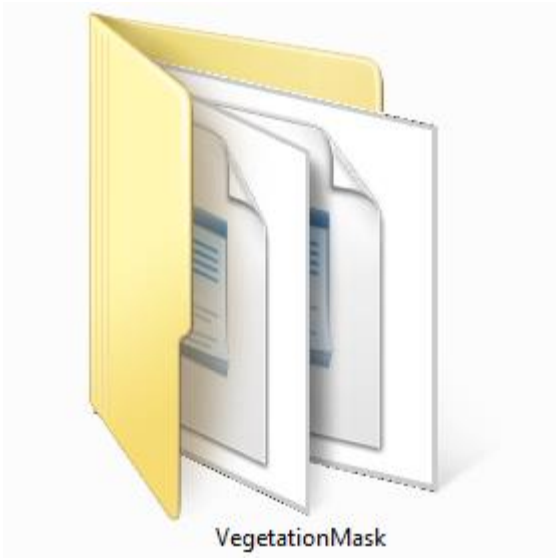
pre/dataout
LandSeaMask.GZZZZ

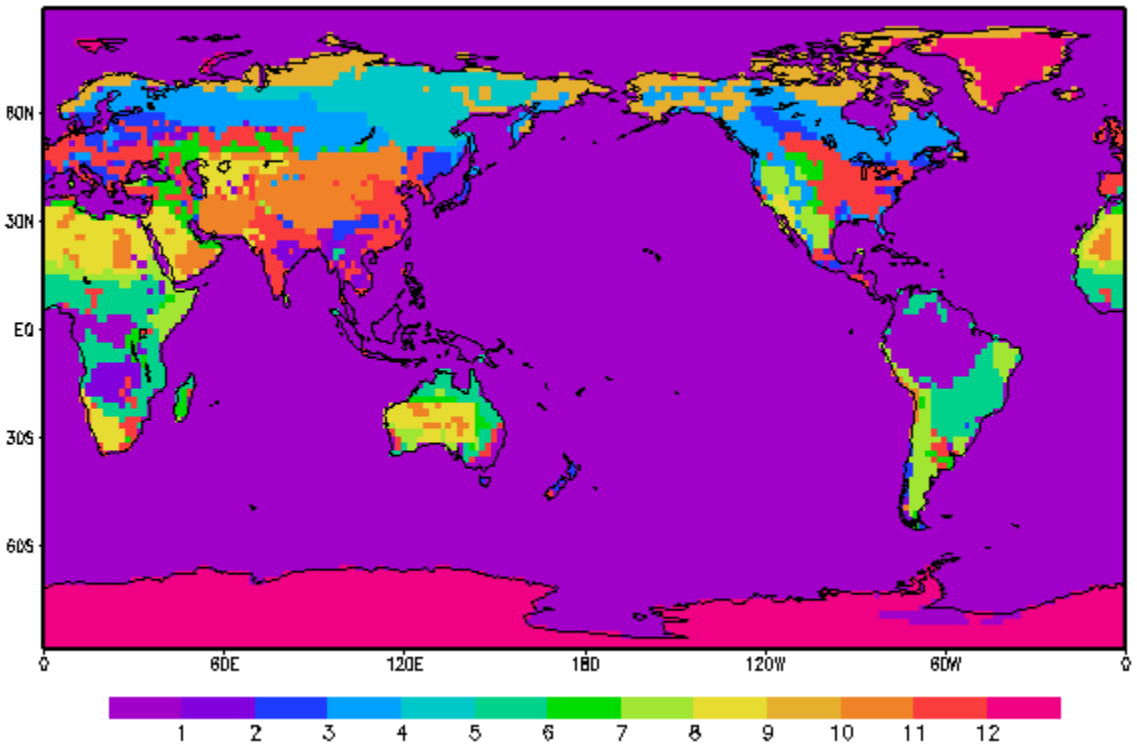
VegetationMask

pre/dataout
ModelLandSeaMask.GZZZZ

model/datain
VegetationMask.GZZZZ

pre/dataout
VegetationMask.GZZZZ
VegetationMask.GZZZZ.ctl





pre/dataout
VegetationMask.GZZZZ
VegetationMask.GZZZZ.ctl

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 13]
VEGM 0 99 Vegetation Mask For Model [0 to 13]
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
VegetationMaskSiB2Clima	07/11/2012 15:42	Arquivo F90	7 KB

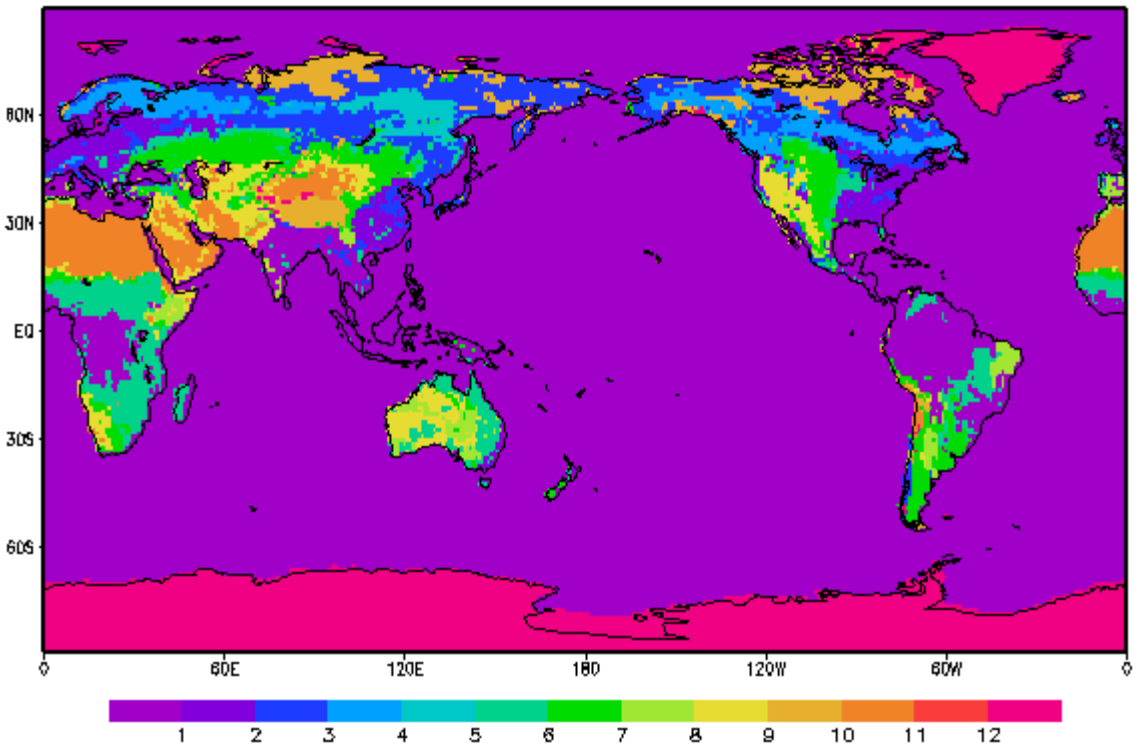
pre/databcs
sib2msk.form

VegetationMaskSiB2Clima

pre/dataout
VegetationMaskClima2.dat

pre/dataout
VegetationMaskClima2G.dat
VegetationMaskClima2G.ctl

pre/dataout
VegetationMaskClima2G.dat
VegetationMaskClima2G.ctl



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

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

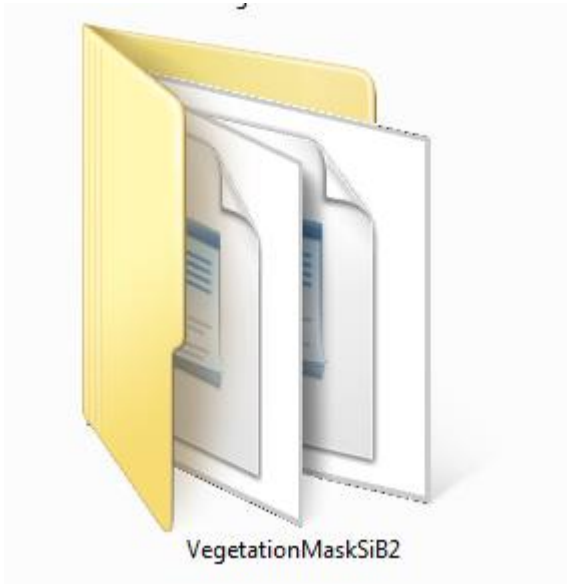
pre/dataout
LandSeaMask.GZZZZ

VegetationMaskSiB2

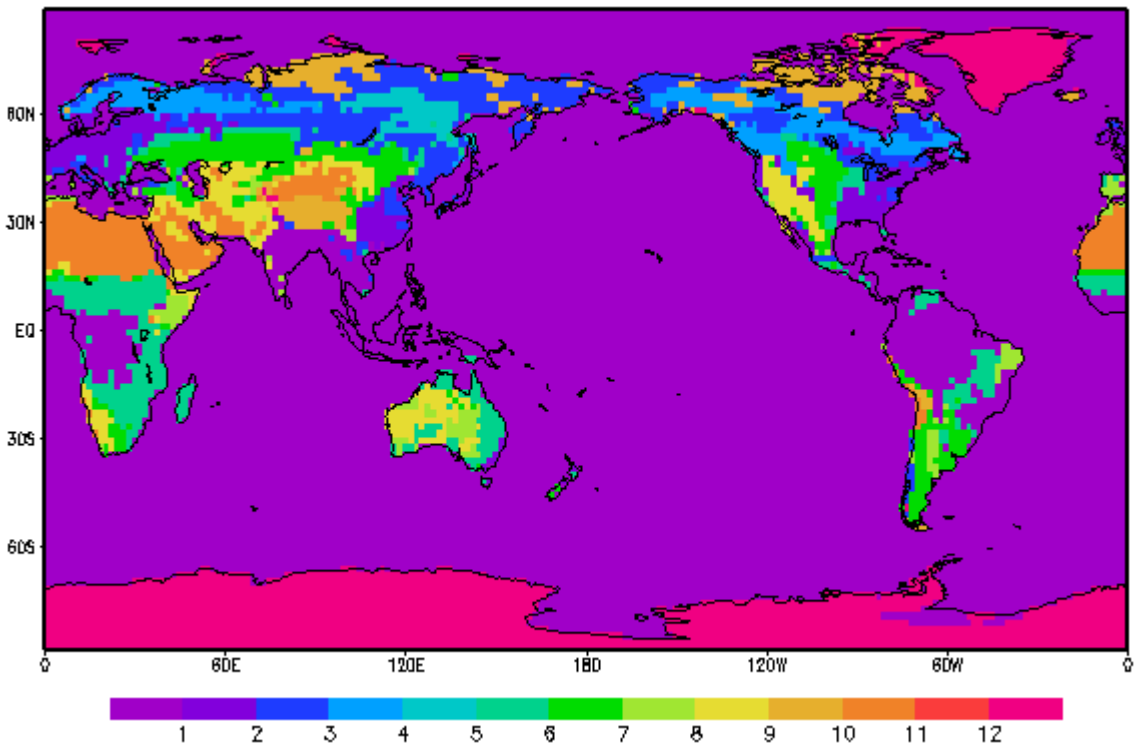
pre/dataout
ModelLandSeaMask.GZZZZ

model/datain
VegetationMaskSiB2.GZZZZ

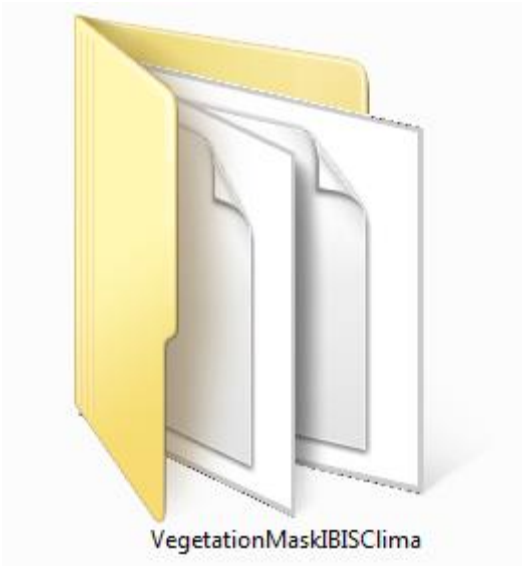
pre/dataout
VegetationMaskSiB2.GZZZZ
VegetationMaskSiB2.GZZZZ.ctl



pre/dataout
VegetationMaskSiB2.GZZZZ
VegetationMaskSiB2.GZZZZ.ctl



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 13]
VEGM 0 99 Vegetation Mask For Model [0 to 13]
ENDVARS



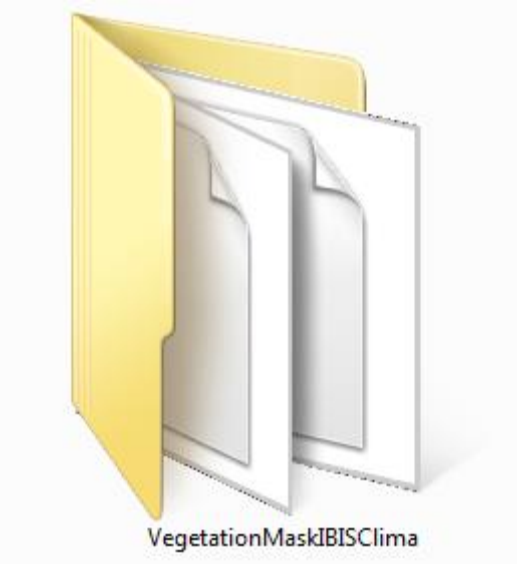
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationMaskIBISClima	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs
ibismsk.form

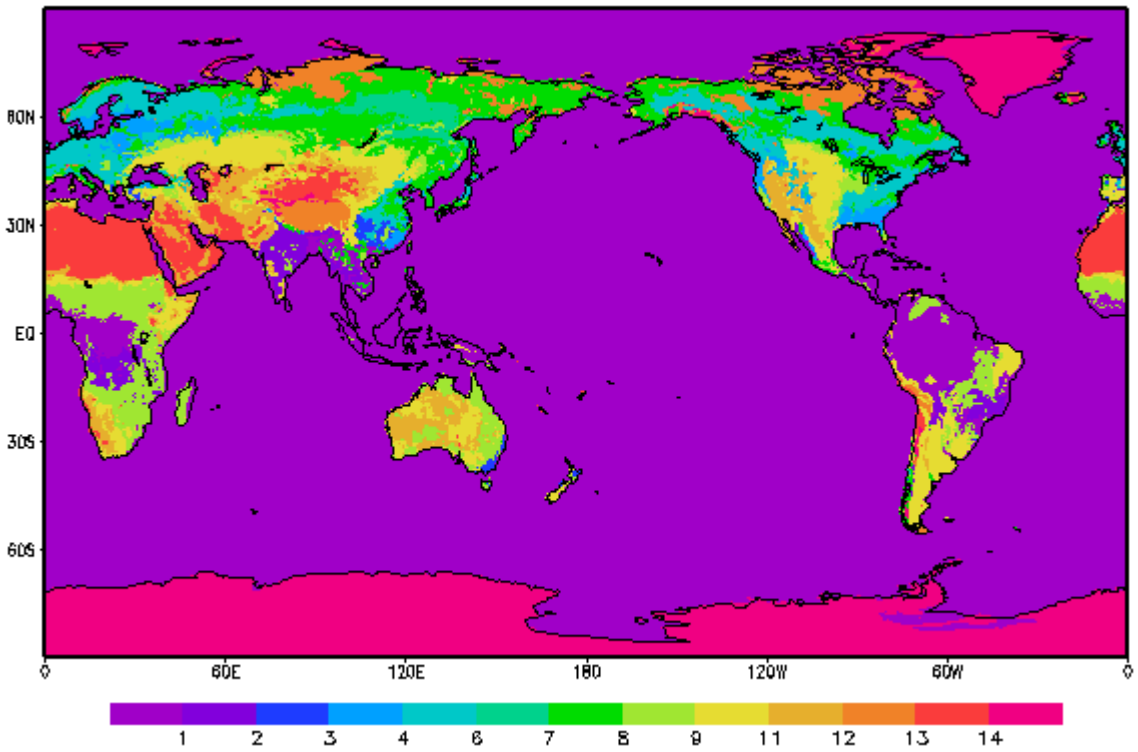
VegetationMaskIBISClima

pre/dataout
VegetationMaskIBISClima.dat

pre/dataout
VegetationMaskIBISClimaG.dat
VegetationMaskIBISClimaG.ctl



pre/dataout
VegetationMaskIBISClimaG.dat
VegetationMaskIBISClimaG.ctl



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

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

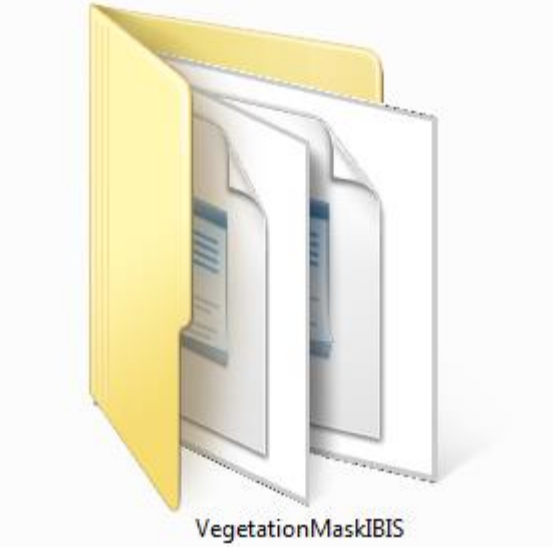
pre/dataout
LandSeaMask.GZZZZ

VegetationMaskIBIS

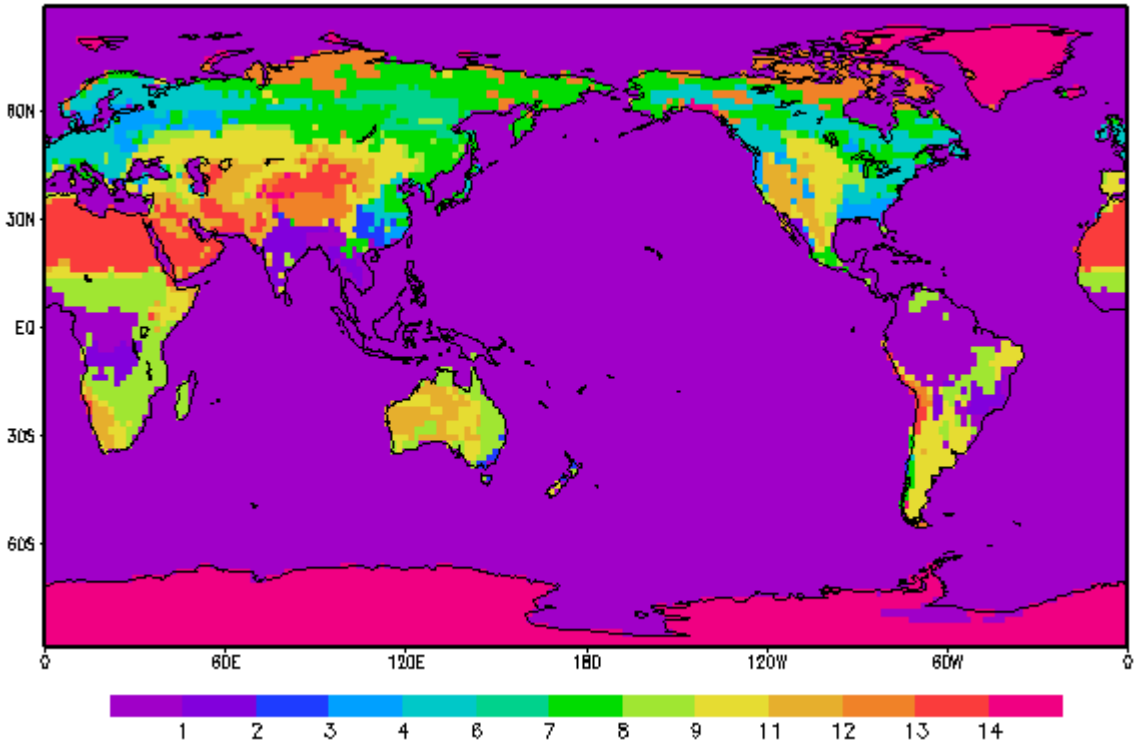
pre/dataout
ModelLandSeaMask.GZZZZ

model/datain
VegetationMaskIBIS.GZZZZ

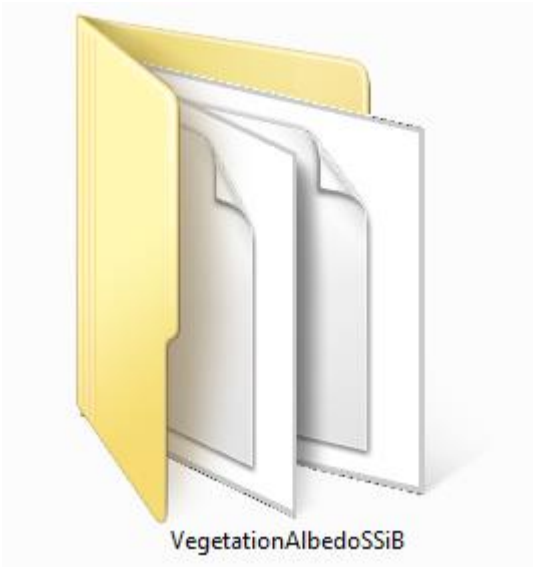
pre/dataout
VegetationMaskIBIS.GZZZZ
VegetationMaskIBIS.GZZZZ.ctl



pre/dataout
VegetationMaskIBIS.GZZZZ
VegetationMaskIBIS.GZZZZ.ctl



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

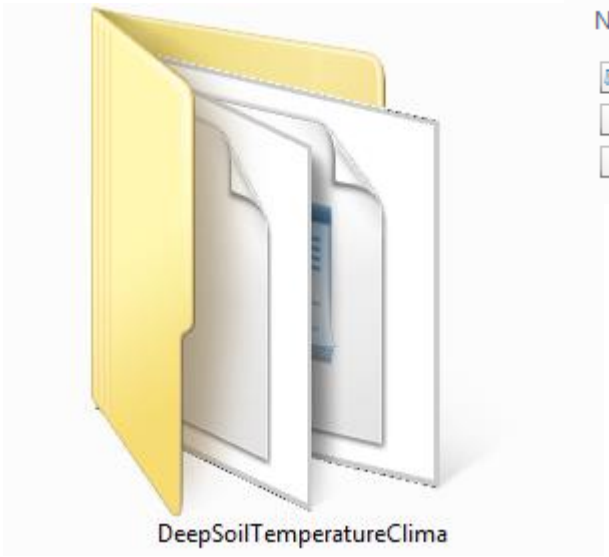


Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
VegetationAlbedoSSiB	07/11/2012 15:42	Arquivo F90	12 KB

pre/databcs
sibalb.form

VegetationAlbedoSSiB

model/datain
VegetationSSiB
AlbedoSSiB



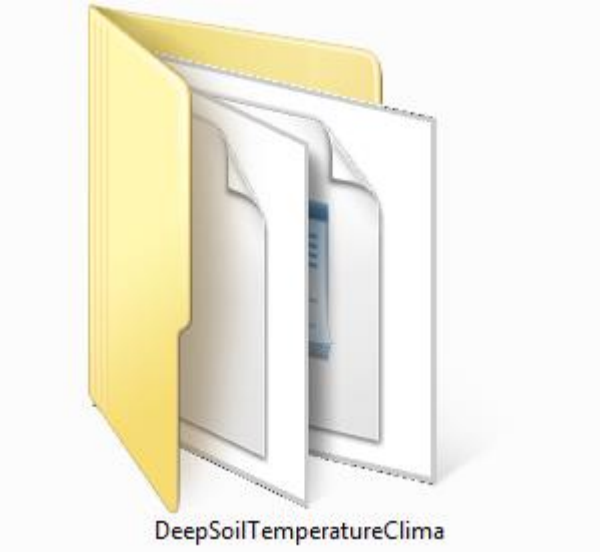
Nome	Data de modificaç...	Tipo	Tamanho
DeepSoilTemperatureClima	07/11/2012 15:42	Arquivo F90	5 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/databcs
tgdeep.form

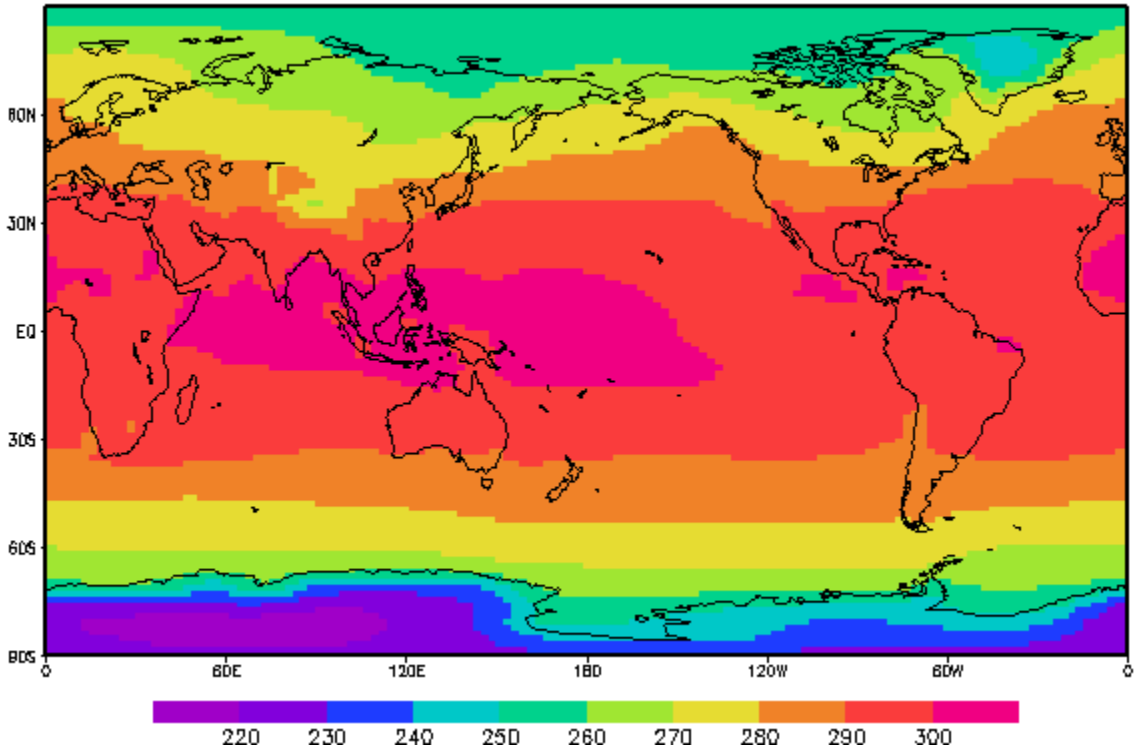
DeepSoilTemperatureClima

pre/dataout
DeepSoilTemperatureClima.dat

pre/dataout
DeepSoilTemperatureClima.dat
DeepSoilTemperatureClima.ctl



pre/dataout
DeepSoilTemperatureClima.dat
DeepSoilTemperatureClima.ctl



VARS 1
DSTP 0 99 Deep Soil Temperature [K]
ENDVARS

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

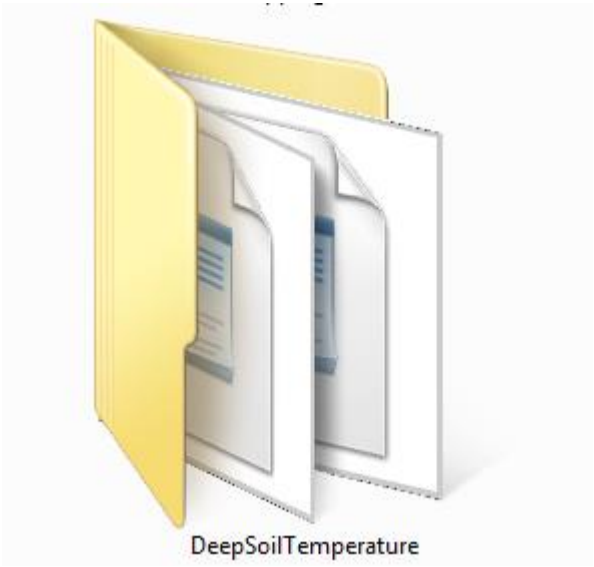
pre/dataout
DeepSoilTemperatureClima.dat

pre/dataout
LandSeaMask.GZZZZ

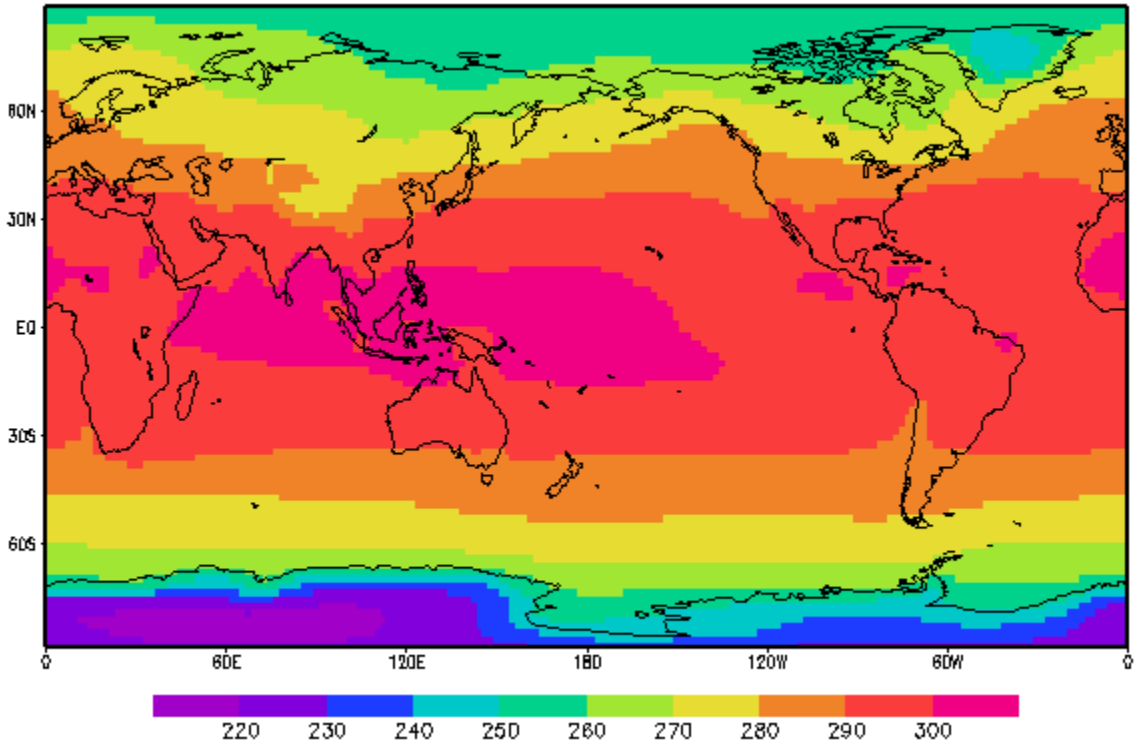
DeepSoilTemperature

pre/dataout
DeepSoilTemperature.GZZZZ
DeepSoilTemperature.GZZZZ.ctl

model/datain
DeepSoilTemperatur.GZZZZ



pre/dataout
DeepSoilTemperature.GZZZZ
DeepSoilTemperature.GZZZZ.ctl



VARS 3
DST1 0 99 Deep Soil Temperature [K]
DST2 0 99 Deep Soil Temperature [K]
DST3 0 99 Deep Soil Temperature [K]
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
RoughnessLengthClima	07/11/2012 15:42	Arquivo F90	5 KB

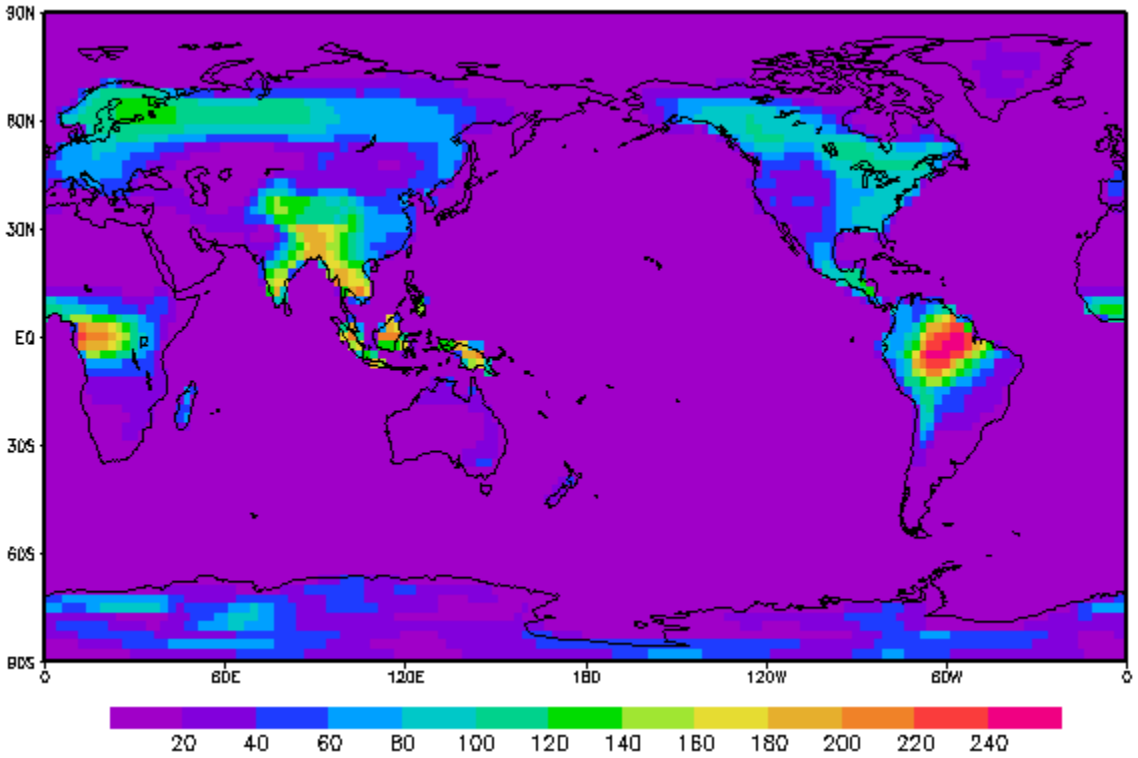
pre/databcs
zorlng.form

RoughnessLengthClima

pre/dataout
RoughnessLengthClima.datl

pre/dataout
RoughnessLengthClima.ctl

pre/dataout
RoughnessLengthClima.ctl



VARS 1
RGHL 0 99 Roughness Length [cm]
ENDVARS

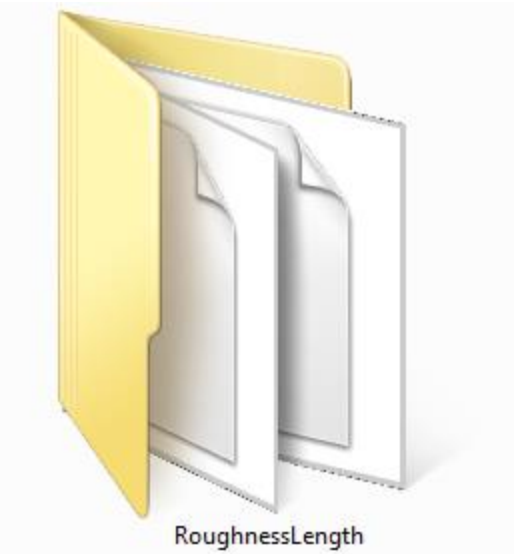
Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
RoughnessLength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

pre/dataout
RoughnessLengthClima.dat

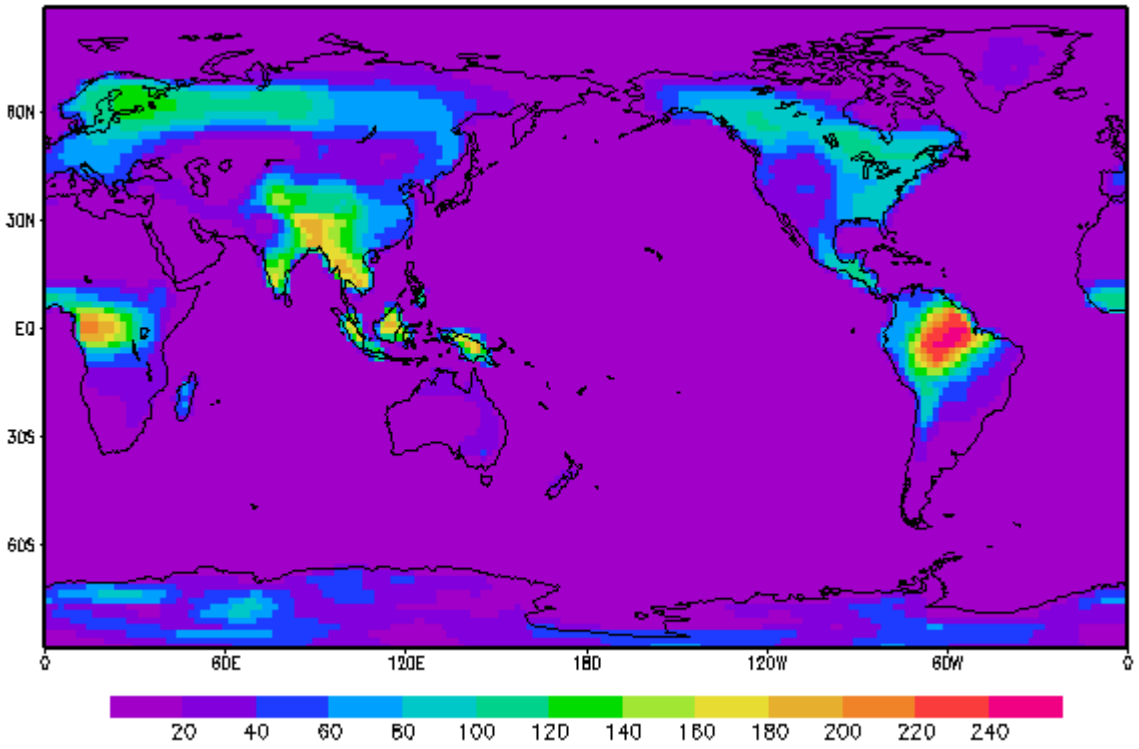
RoughnessLength

model/datain
RoughnessLength

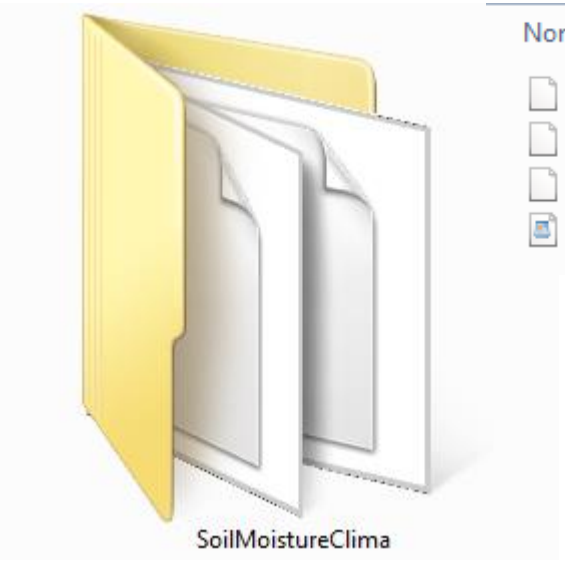
pre/dataout
RoughnessLength. GZZZZ.ctl



pre/dataout
RoughnessLength. GZZZZ.ctl



VARS 1
RGHL 0 99 Roughness Length [cm]
ENDVARS



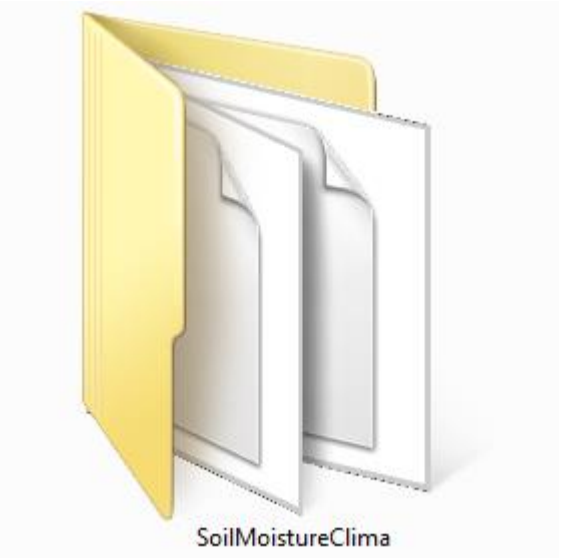
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
Makefile.una	07/11/2012 15:42	Arquivo UNA	1 KB
SoilMoistureClima	07/11/2012 15:42	Arquivo F90	6 KB

pre/databcs
soilms.form

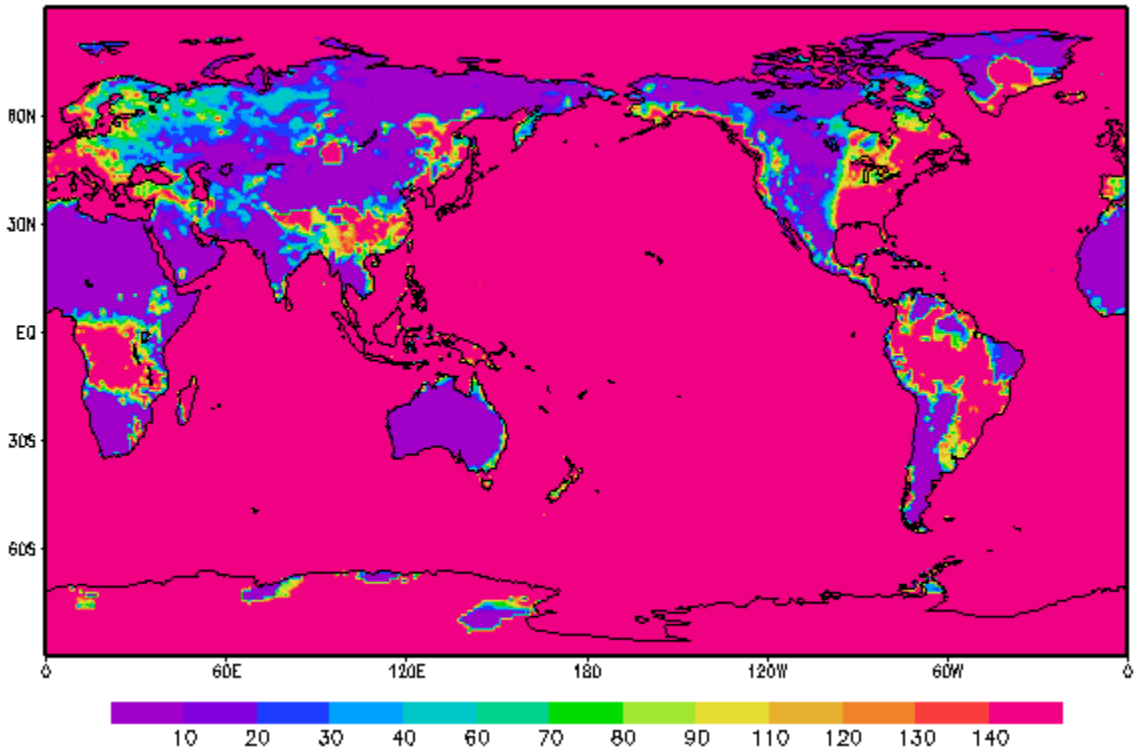
SoilMoistureClima

pre/dataout
SoilMoistureClima.dat

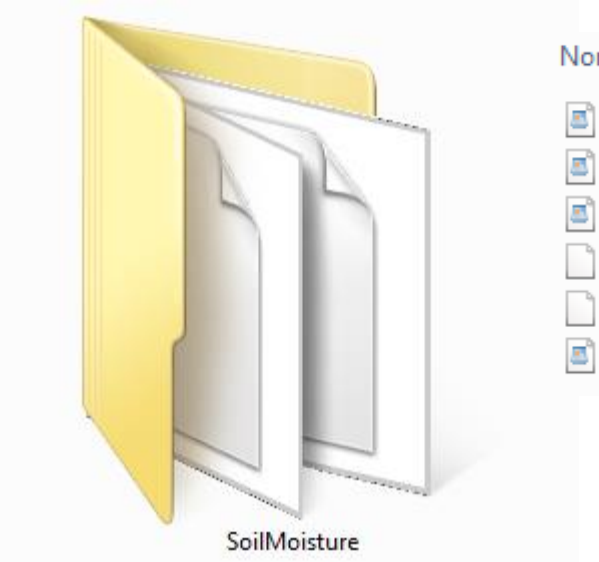
pre/dataout
SoilMoistureClima.ctl



pre/dataout
SoilMoistureClima.ctl



VARS 1
SOMO 0 99 SoilMoisture [cm]
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
Makefile.common	07/11/2012 15:42	Arquivo COMMON	2 KB
SoilMoisture	07/11/2012 15:42	Arquivo F90	6 KB

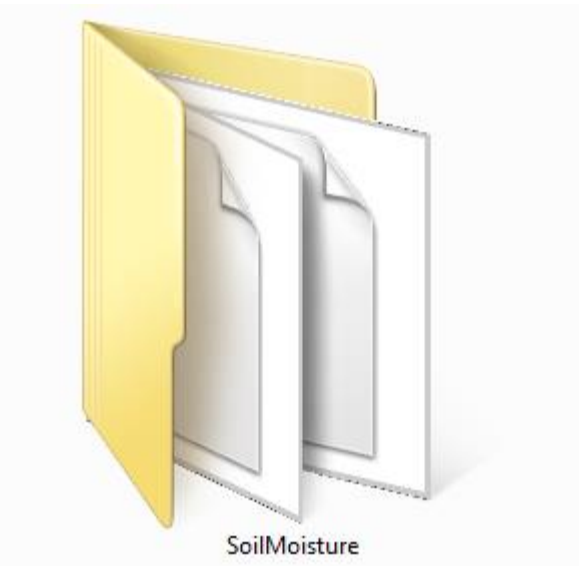
pre/dataout
SoilMoisture Clima.dat

pre/dataout
ModelLandSeaMask.GZZZZ

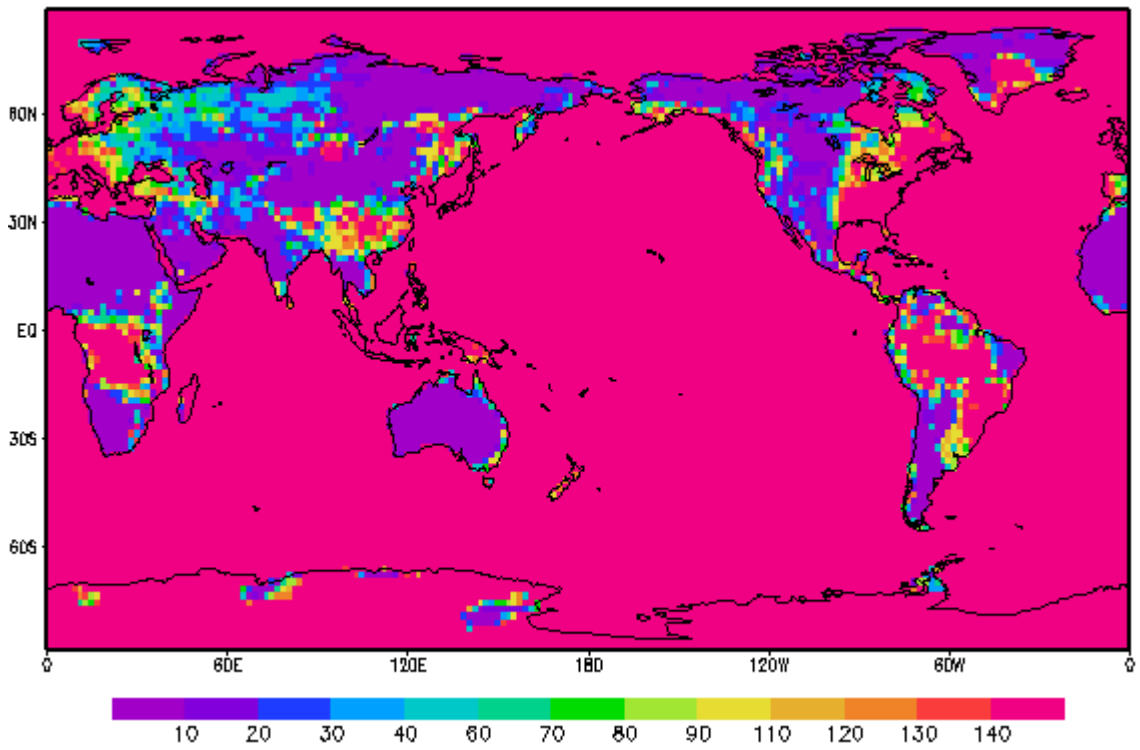
SoilMoisture

model/datain
SoilMoisture.GZZZZ

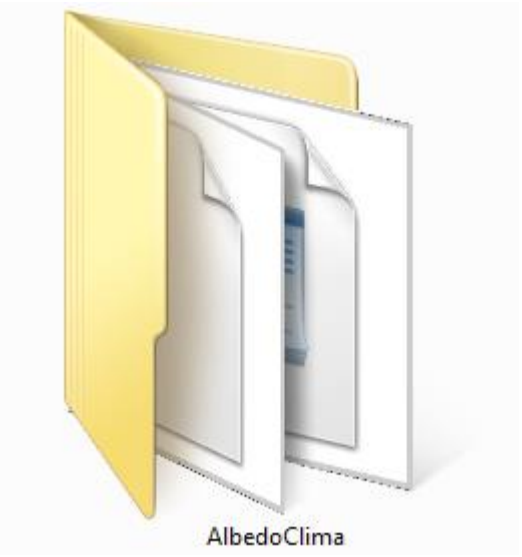
pre/dataout
SoilMoisture.GZZZZ.ctl



pre/dataout
SoilMoisture.GZZZZ.ctl



VARS 1
SOMO 0 99 SoilMoisture [cm]
ENDVARS



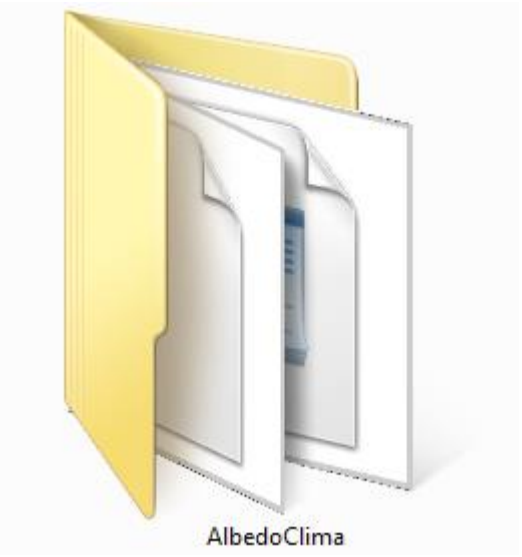
Nome	Data de modificaç...	Tipo	Tamanho
AlbedoClima	07/11/2012 15:42	Arquivo F90	6 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB

pre/databcs
albedo.form

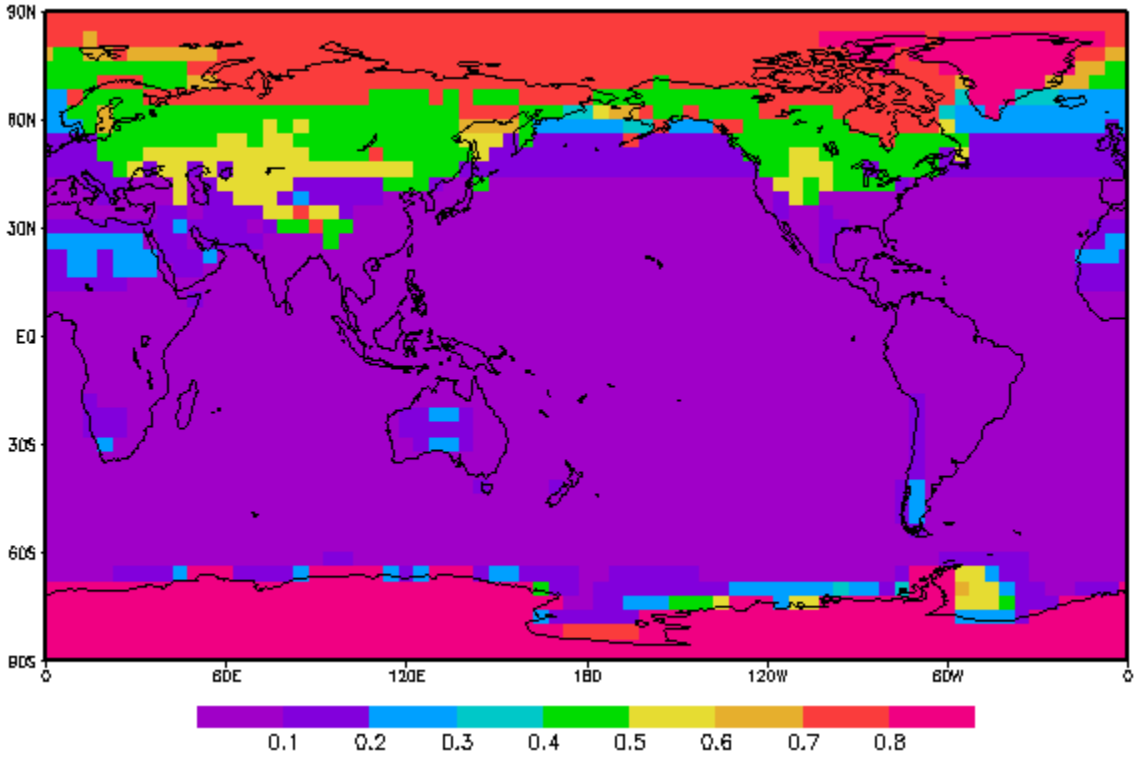
AlbedoClima

pre/dataout
AlbedoClima.dat

pre/dataout
AlbedoClima.ctl



pre/dataout
AlbedoClima.ctl



VARS 1
ALBE 0 99 Albedo [No Dim]
ENDVARS

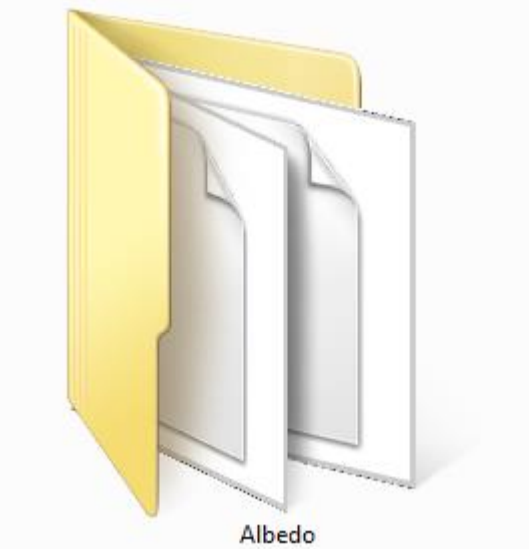
Nome	Data de modificaç...	Tipo	Tamanho
Albedo	07/11/2012 15:42	Arquivo F90	5 KB
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012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

pre/dataout
AlbedoClima.dat

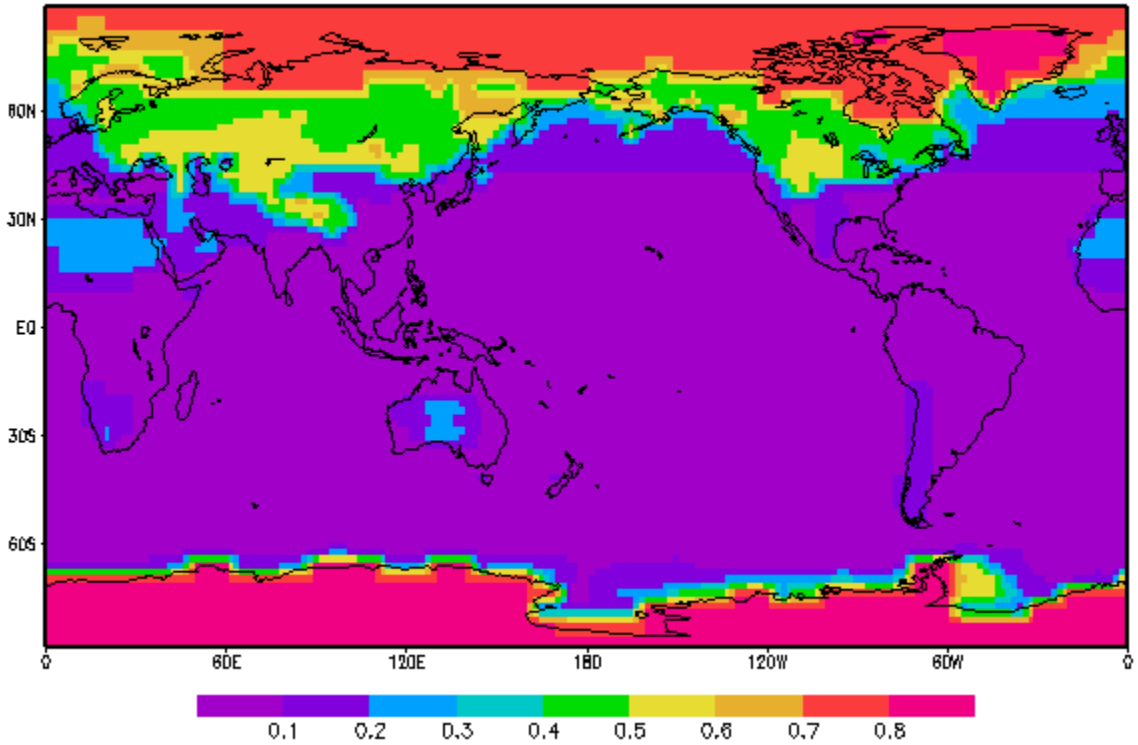
Albedo

pre/dataout
Albedo.GZZZZ

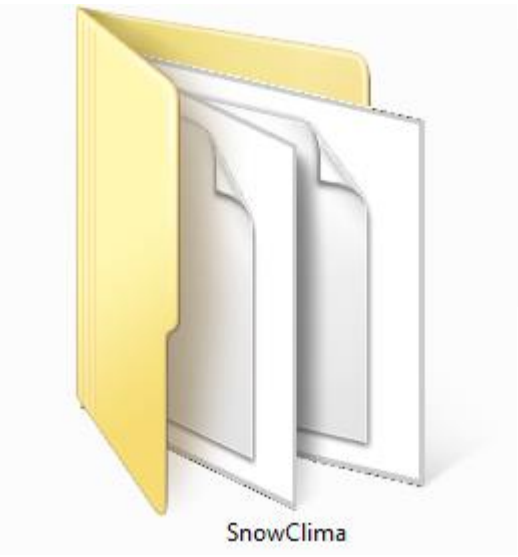
pre/dataout
Albedo.GZZZZ.ctl



pre/dataout
Albedo.GZZZZ.ctl



VARS 1
ALBE 0 99 Albedo [No Dim]
ENDVARS



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

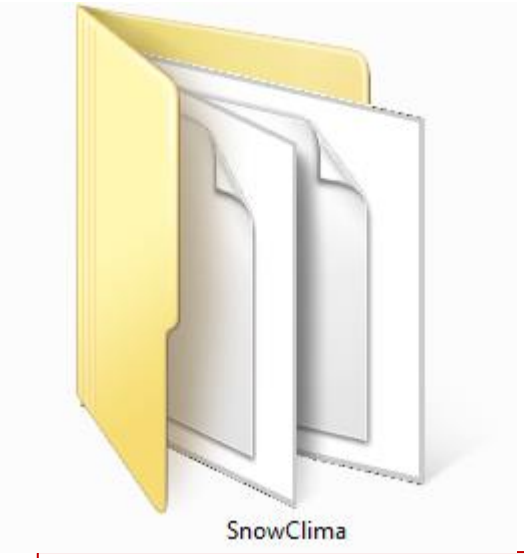
pre/dataout
Albedo.GZZZZ

pre/dataout
ModelLandSeaMask.GZZZZ

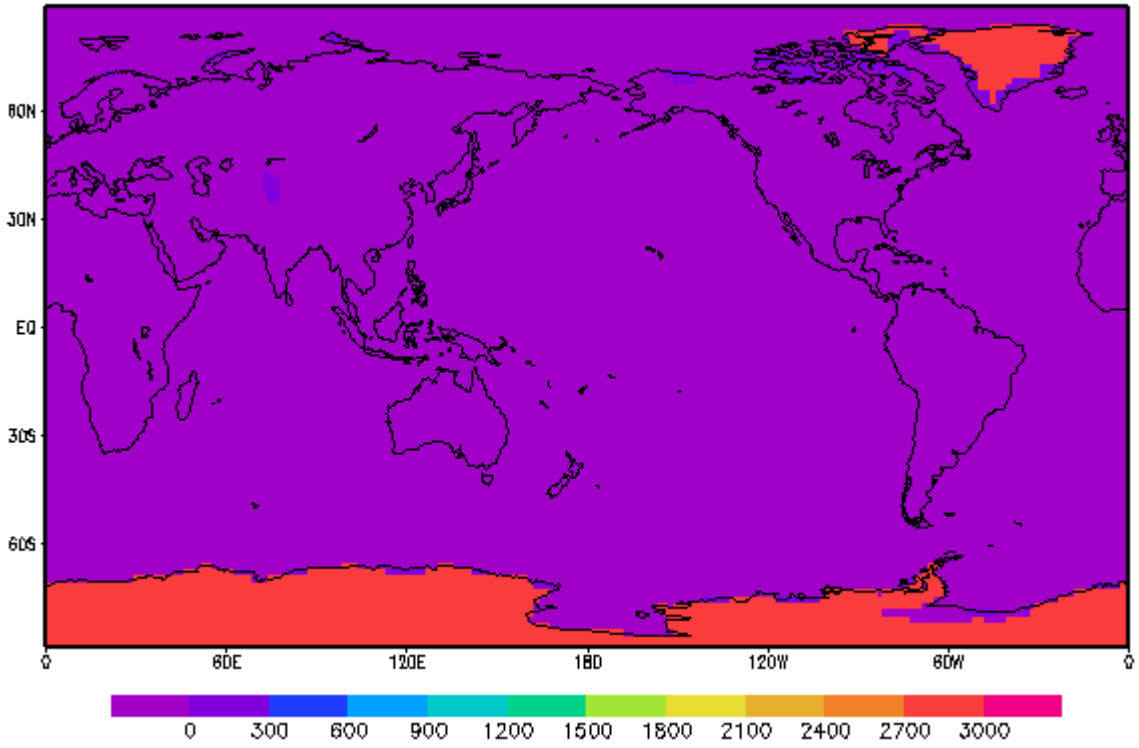
SnowClima

pre/datain
SnowYYYYMMDDHHS.unf.GZZZZ

pre/dataout
SnowYYYYMMDDHHS.unf.GZZZZ.ctl



pre/dataout
SnowYYYYMMDDHHS.unf.GZZZZ.ctl



VARS 1
SNOW 0 99 Climatological Snow Depth [kg/m2]
ENDVARS

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/dataout
ModelLandSeaMask.GZZZZ

pre/databcs
ersst.form

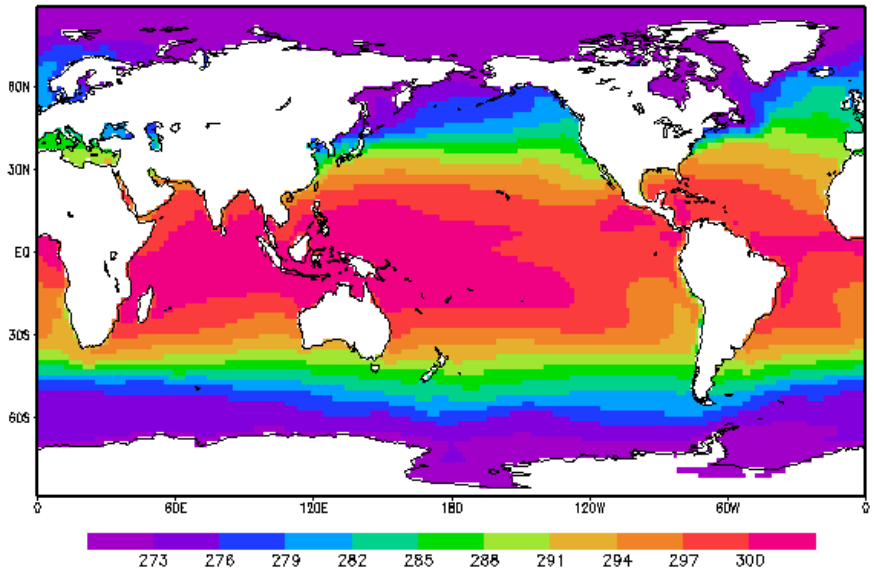
SSTClima

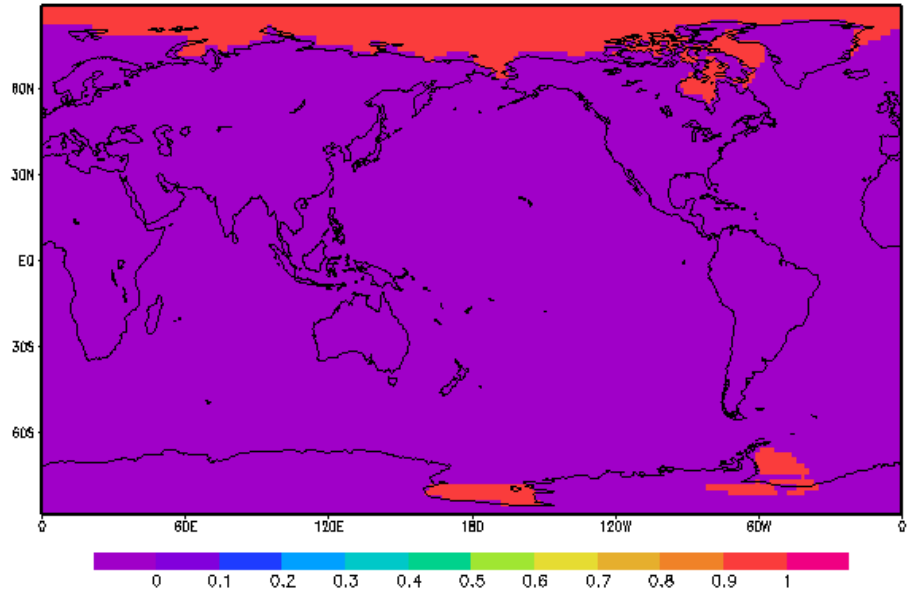
model/datain
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/datain
SSTClimaYYYYMMDDS.unf.GZZZZ

pre/dataout
SSTClimaYYYYMMDDS.unf.GZZZZ
SSTClimaYYYYMMDDS.unf.GZZZZ.ctl

pre/dataout
SSTClimaYYYYMMDDS.unf.GZZZZ
SSTClimaYYYYMMDDS.unf.GZZZZ.ctl





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]
SSTC 0 99 Climatological SST Topography Corrected [K]
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
SSTWeeklyNCEP	07/11/2012 15:42	Arquivo F90	6 KB

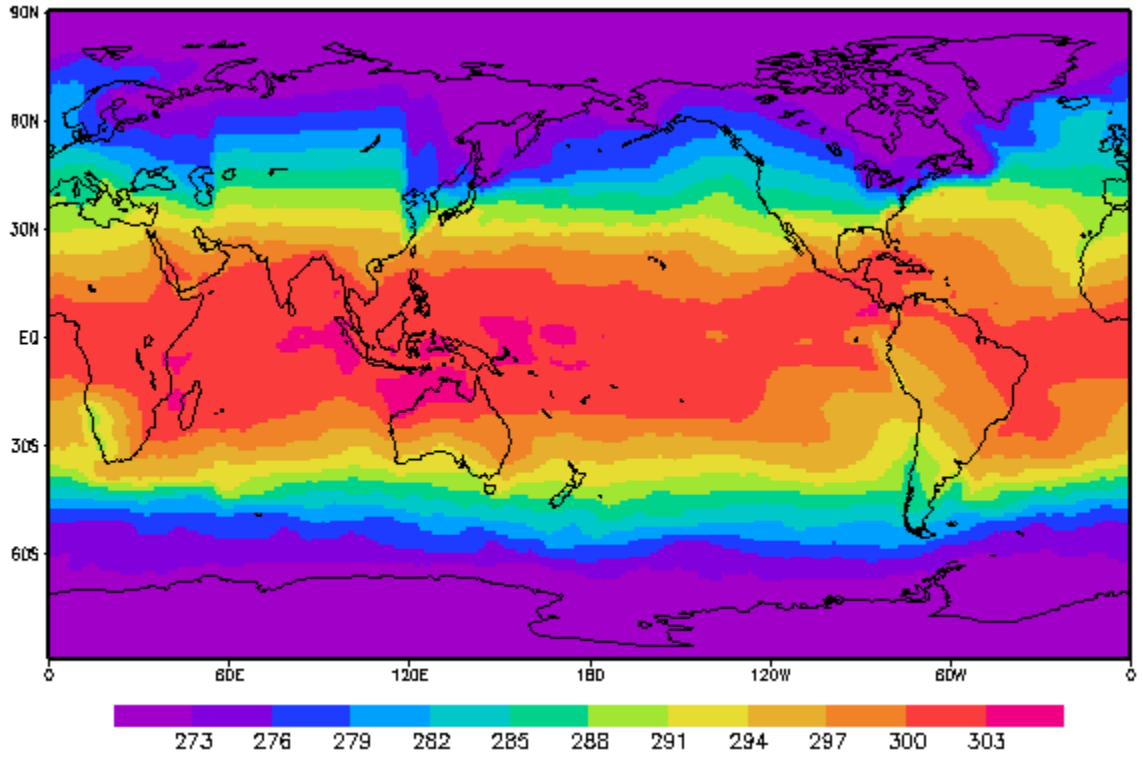
pre/datain
gdas1.ThhZ.sstgrd.YYYYMMDDHH

SSTWeeklyNCEP

pre/dataout
SSTWeekly.YYYYMMDD

pre/dataout
SSTWeeklyYYYYMMDD.ctl

pre/dataout
SSTWeeklyYYYYMMDD.ctl



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

pre/databcs
sstaoi.form

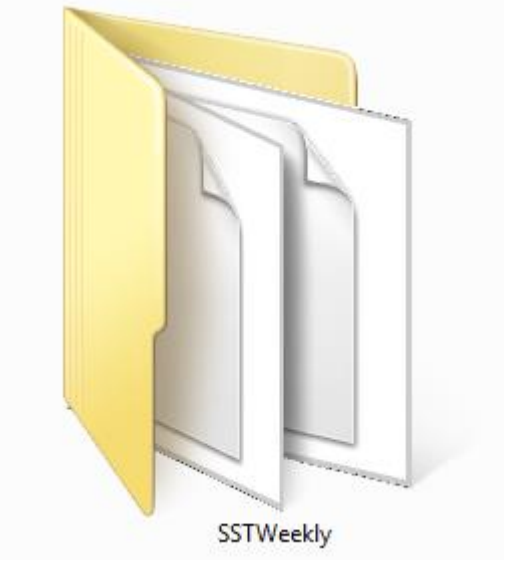
pre/dataout
ModelLandSeaMask.GZZZZ
SSTWeekly.YYYYMMDD

SSTWeekly

model/datain
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

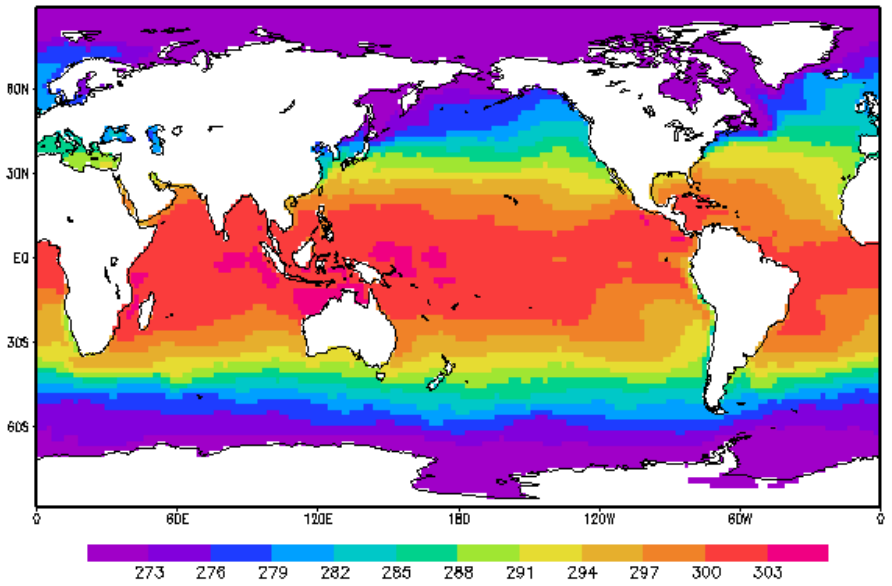
pre/datain
SSTWeeklyYYYYMMDD.GZZZZ

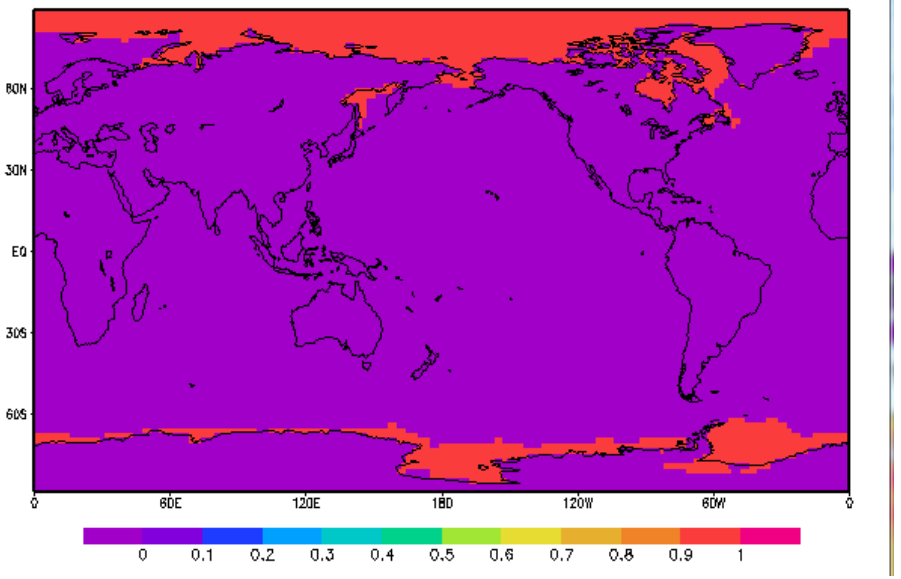
pre/dataout
SSTWeeklyYYYYMMDD.GZZZZ
SSTWeeklyYYYYMMDD.GZZZZ.ctl



pre/dataout
SSTWeeklyYYYYMMDD.GZZZZ
SSTWeeklyYYYYMMDD.GZZZZ.ctl

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





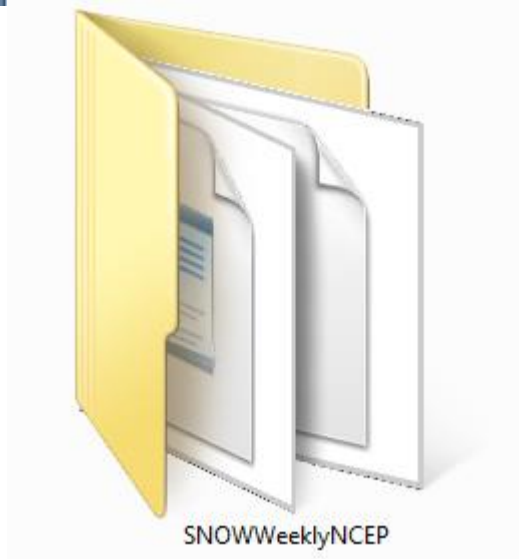
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	06/03/2013 10:13	Arquivo	1 KB
Makefile.common	06/03/2013 10:20	Arquivo COMMON	1 KB
SNOWWeeklyNCEP	06/03/2013 11:27	Arquivo F90	6 KB

pre/datain
gdas1.ThhZ.snogrd.YYYYMMDDHH

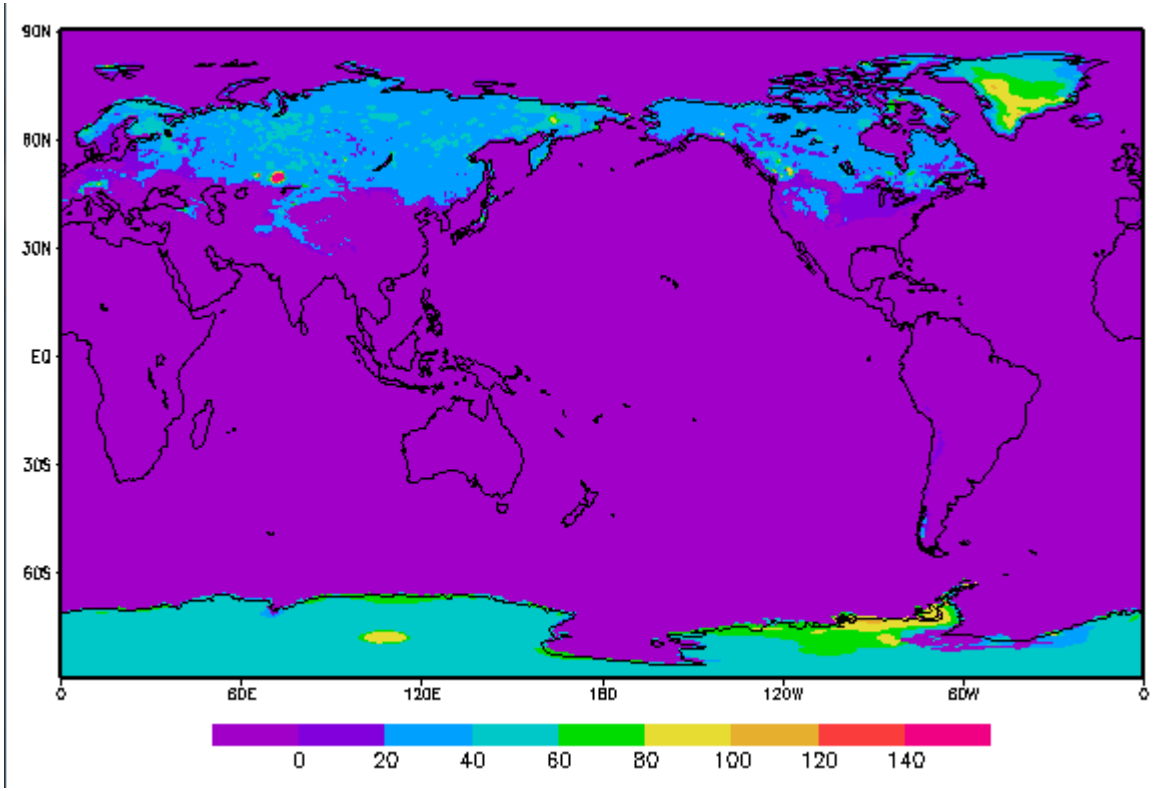
SNOWWeeklyNCEP

pre/dataout
SNOWWeekly.YYYYMMDD

pre/dataout
SNOWWeekly.YYYYMMDD.ctl



pre/dataout
SNOWWeekly.YYYYMMDD.ctl



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

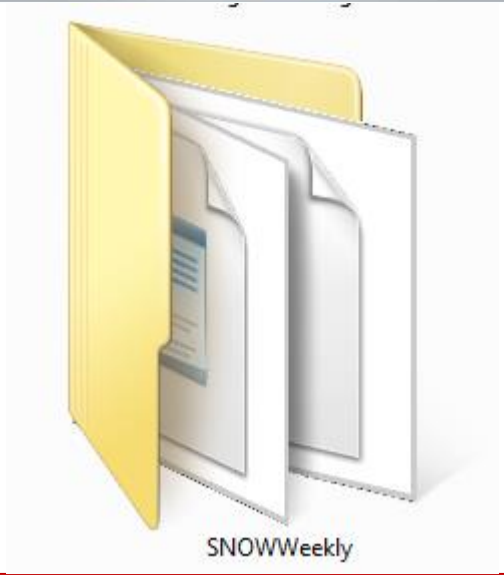
Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	06/03/2013 13:44	Arquivo F90	16 KB
InputParameters	06/03/2013 14:23	Arquivo F90	4 KB
LinearInterpolation	06/03/2013 13:44	Arquivo F90	9 KB
Makefile	06/03/2013 13:44	Arquivo	1 KB
Makefile.common	06/03/2013 13:59	Arquivo COMMON	2 KB
SNOWWeekly	06/03/2013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

pre/dataout
SNOWWeekly.YYYYMMDD

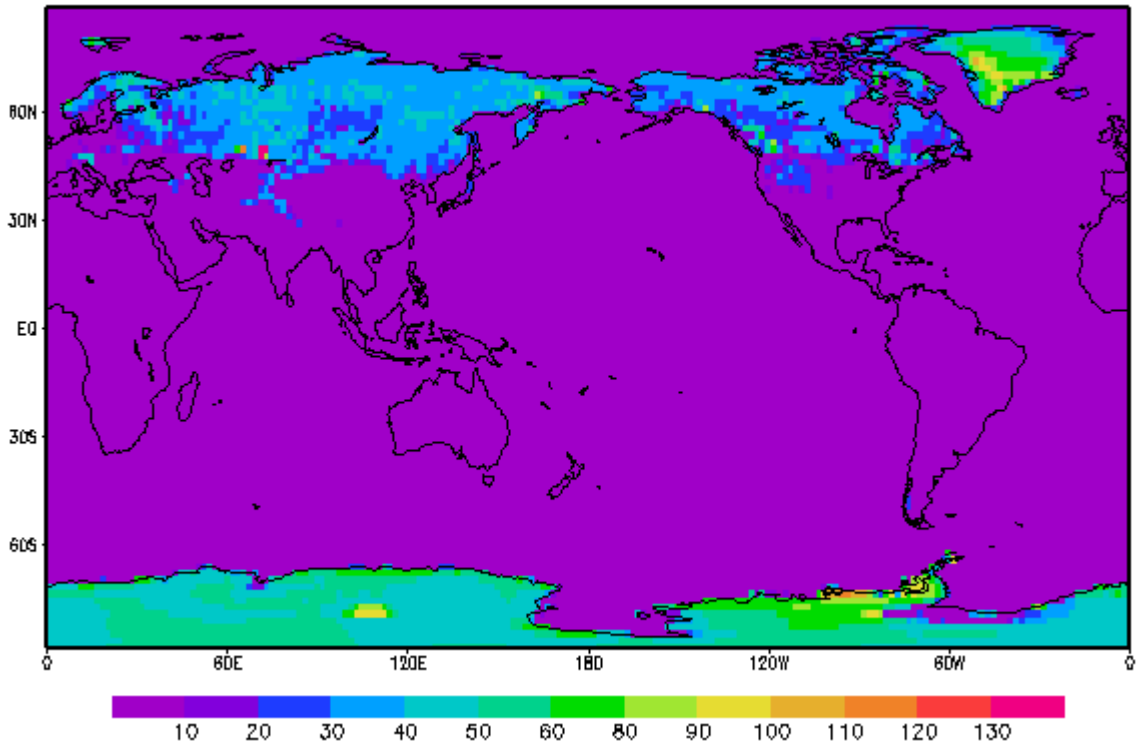
SNOWWeekly

model/datain
SNOWWeeklyYYYYMMDD.GZZZZ

pre/dataout
SNOWWeeklyYYYYMMDD.GZZZZ
SNOWWeeklyYYYYMMDD.GZZZZ.ctl



pre/dataout
SNOWWeeklyYYYYMMDD.GZZZZ
SNOWWeeklyYYYYMMDD.GZZZZ.ctl



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

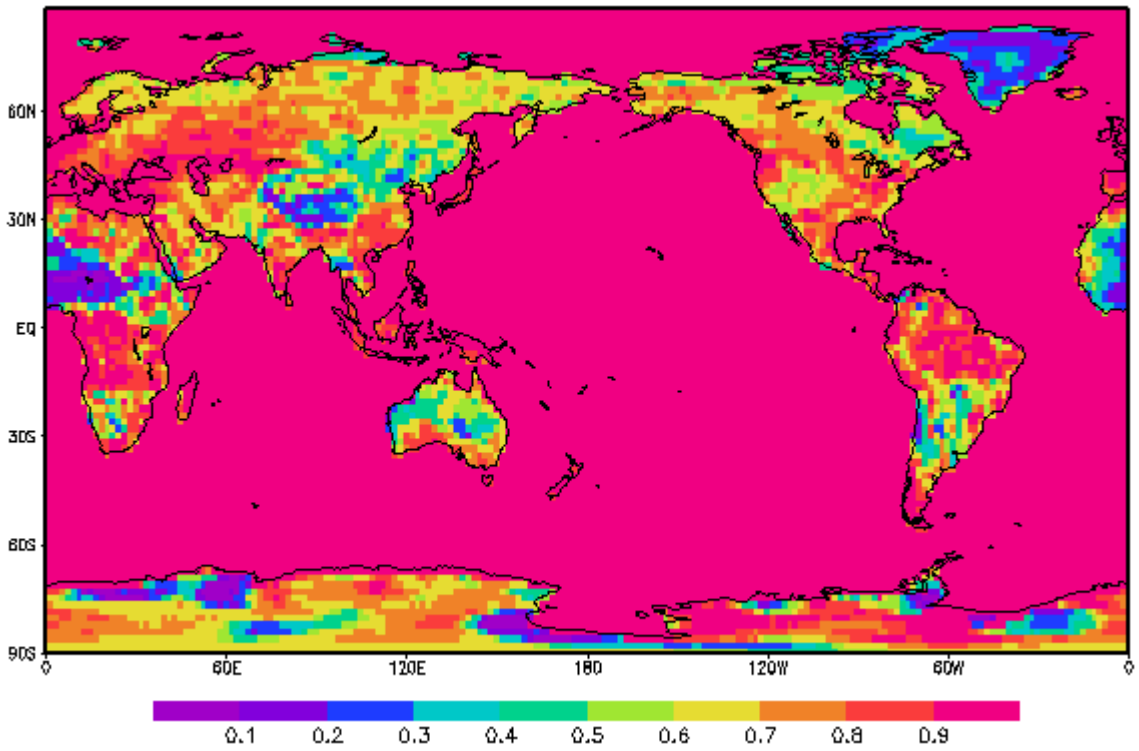
pre/databcs
sib2soilms.form

ClimaSoilMoistureClima

pre/dataout
CLimaSoilMoistureClima.dat

pre/dataout

CLimaSoilMoistureClima.ctl



pre/dataout

CLimaSoilMoistureClima.ctl

VARS 1
soilml 3 99 CLimaSoilMoistureClima [%]
ENDVARS

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

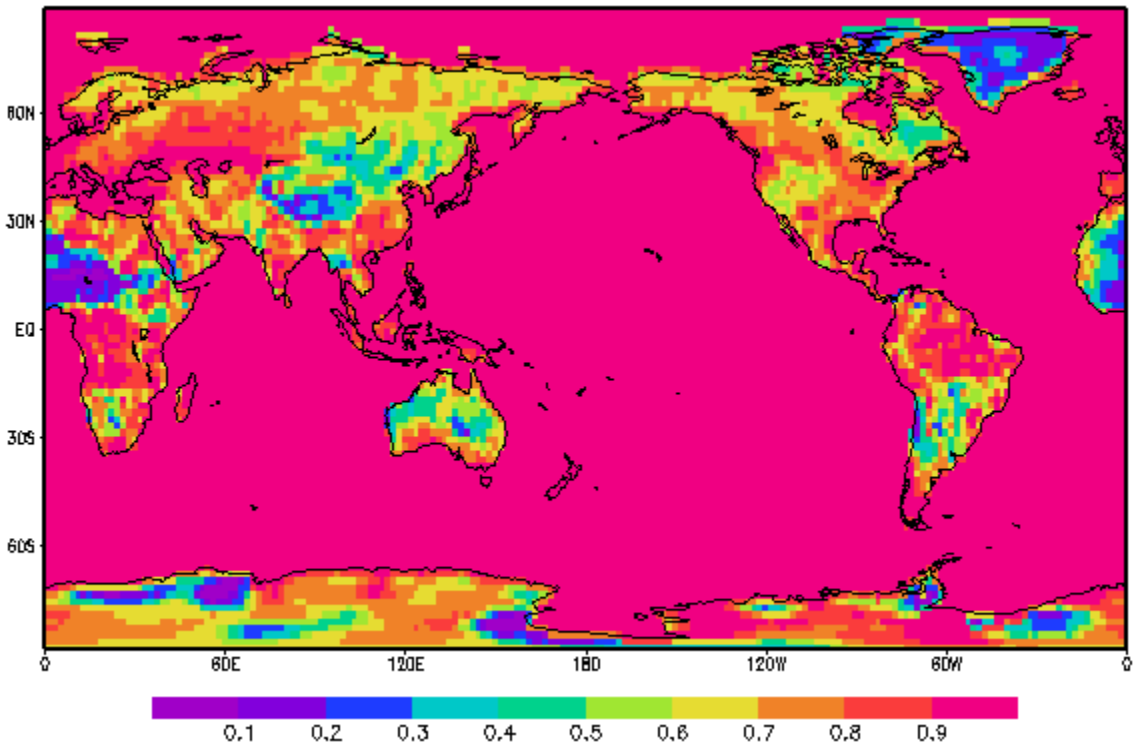
pre/dataout
CLimaSoilMoistureClima.dat

ClimasoilMoisture

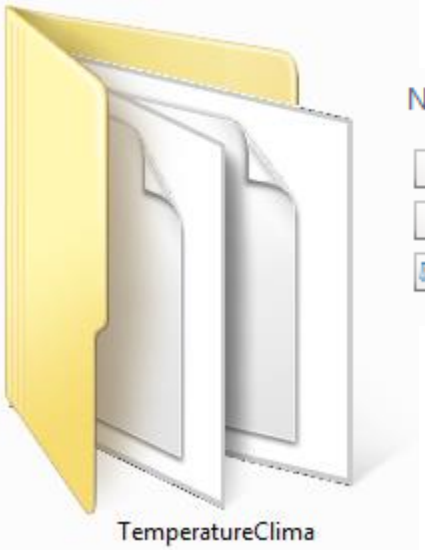
model/datain
CLimaSoilMoisture.GZZZZ

pre/dataout
CLimaSoilMoisture.GZZZZ
CLimaSoilMoisture.GZZZZ.ctl

pre/dataout
CLimaSoilMoisture.GZZZZ
CLimaSoilMoisture.GZZZZ.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

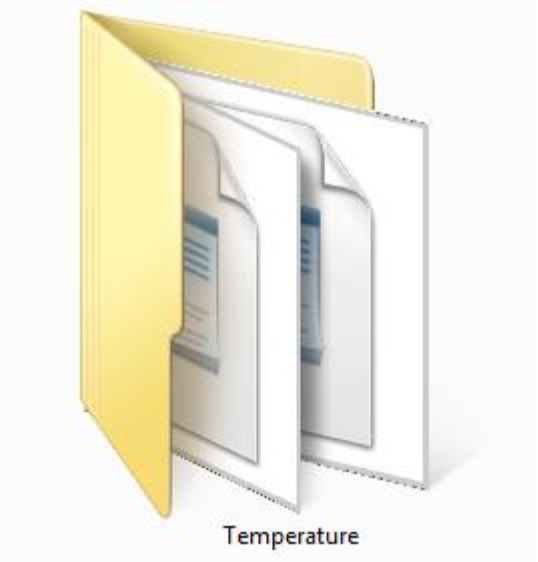
pre/databcs
clmt.form

TemperatureClima

pre/dataout
TemperatureClima.dat

pre/dataout

TemperatureClima.ctl



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.ctl

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

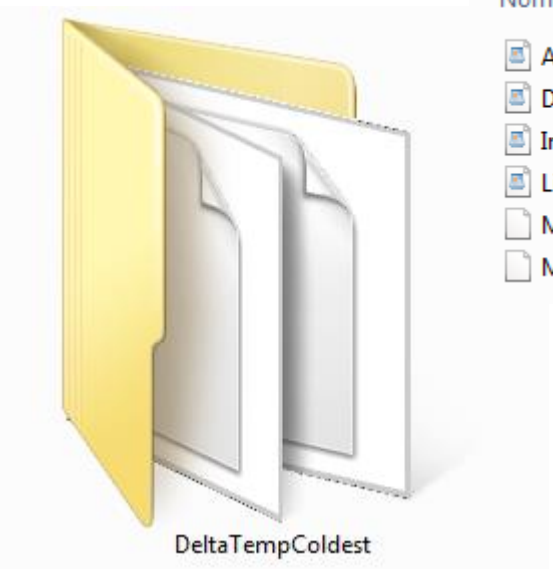
pre/databcs
deltat.form

DeltaTempColdestClima

pre/dataout
DeltaTempColdestClima.dat

pre/dataout

DeltaTempColdestClima.ctl



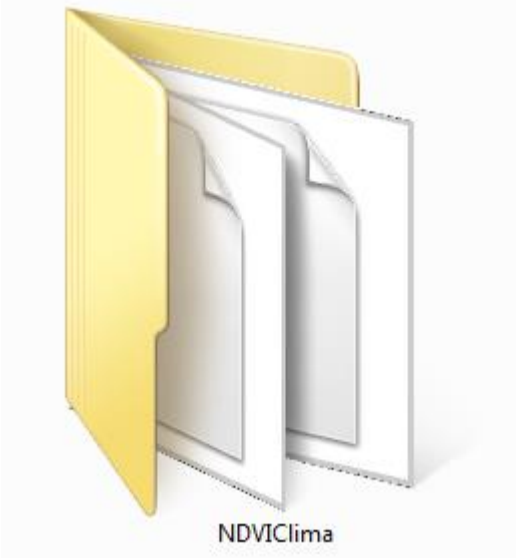
Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
DeltaTempColdest	07/11/2012 15:42	Arquivo F90	6 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common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

pre/dataout
DeltaTempColdestClima.dat

DeltaTempColdest

model/datain
DeltaTempColdest.GZZZZ

pre/dataout
DeltaTempColdest.GZZZZ
DeltaTempColdest.GZZZZ.ctl



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

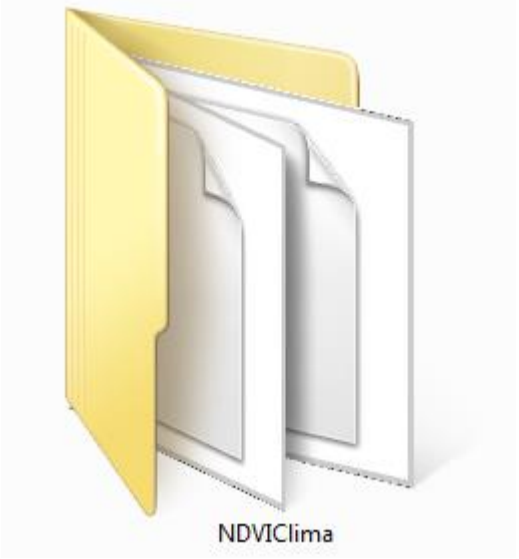
pre/databcs
ndviclm.form

NDVIClima

pre/dataout
NDVIClima.dat

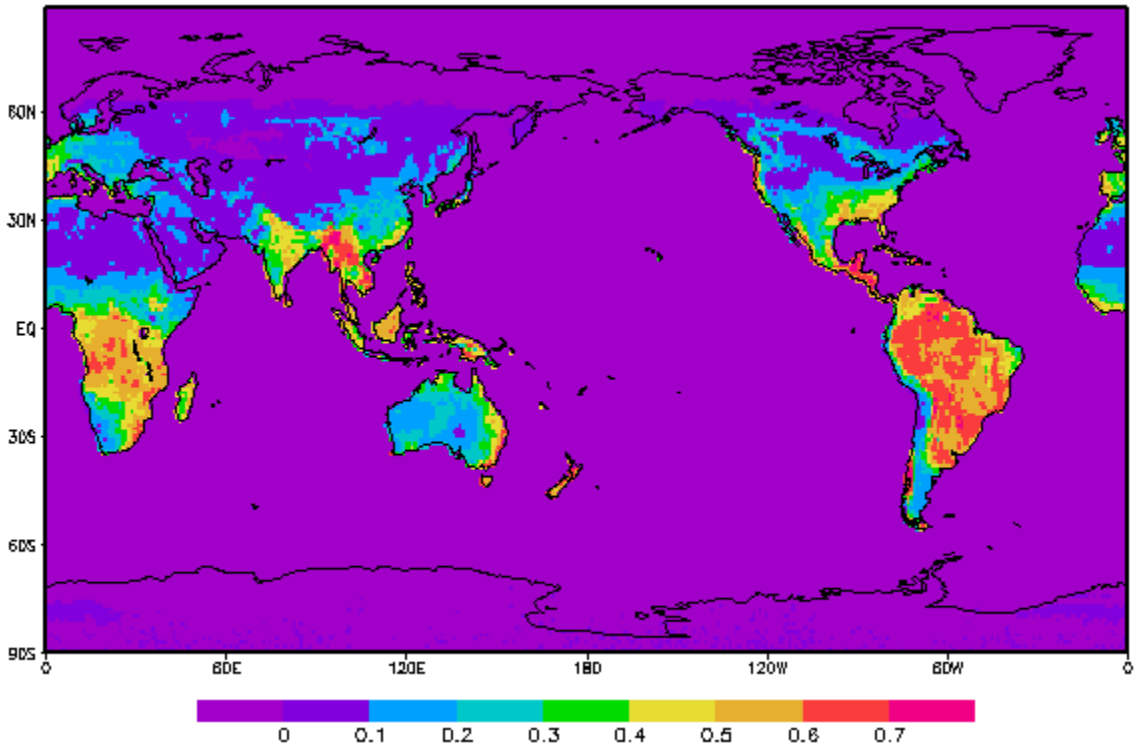
pre/dataout

NDVIClima.ctl

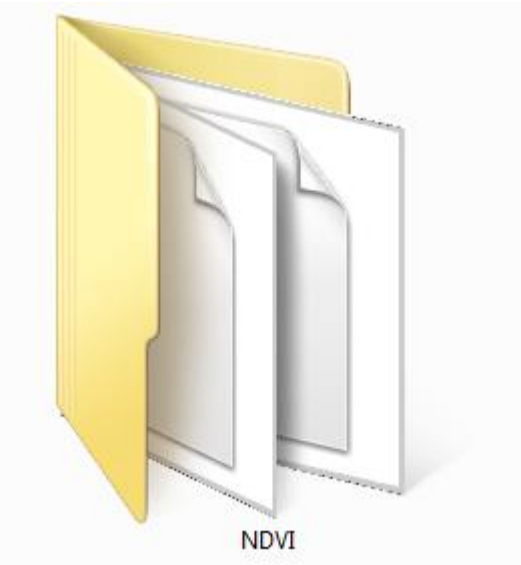


pre/dataout

NDVIClima.ctl



VARS 1
ndvi 0 99 NDVI [%]
ENDVARS



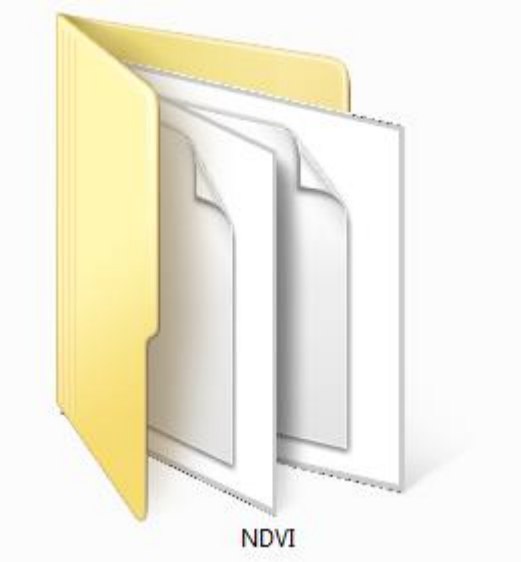
Nome	Data de modificaç...	Tipo	Tamanho
AreaInterpolation	07/11/2012 15:42	Arquivo F90	16 KB
InputParameters	07/11/2012 15:42	Arquivo F90	4 KB
LinearInterpolation	07/11/2012 15:42	Arquivo F90	9 KB
Makefile	07/11/2012 15:42	Arquivo	1 KB
NDVI	07/11/2012 15:42	Arquivo F90	5 KB

pre/dataout
NDVIClima.dat

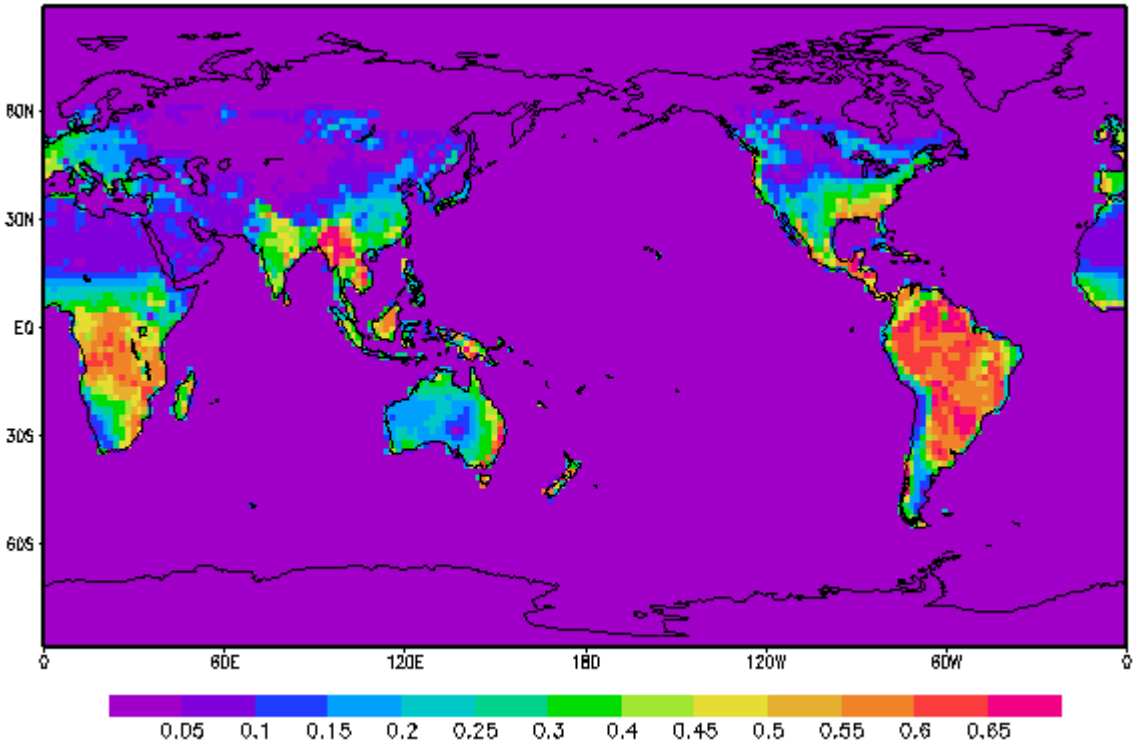
NDVI

model/datain
NDVI.GZZZZ

pre/dataout
NDVI.GZZZZ
NDVI.GZZZZ.ctl



pre/dataout
NDVI.GZZZZ
NDVI.GZZZZ.ctl



VARS 1
ndvi 0 99 NDVI [%]
ENDVARS

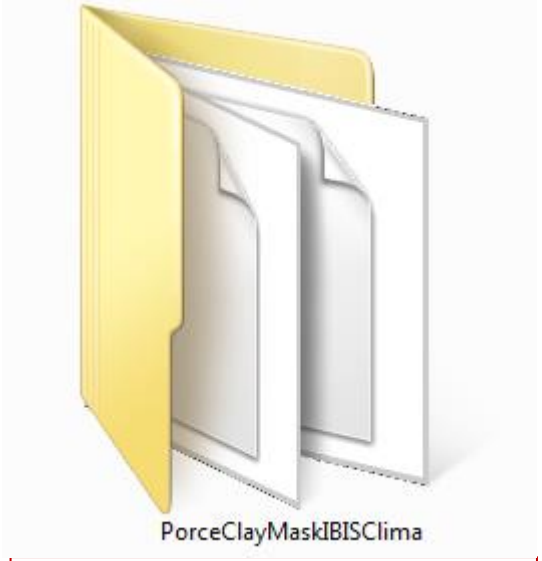
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceClayMaskIBISClima	07/11/2012 15:42	Arquivo F90	7 KB

pre/databcs
claymsk.form

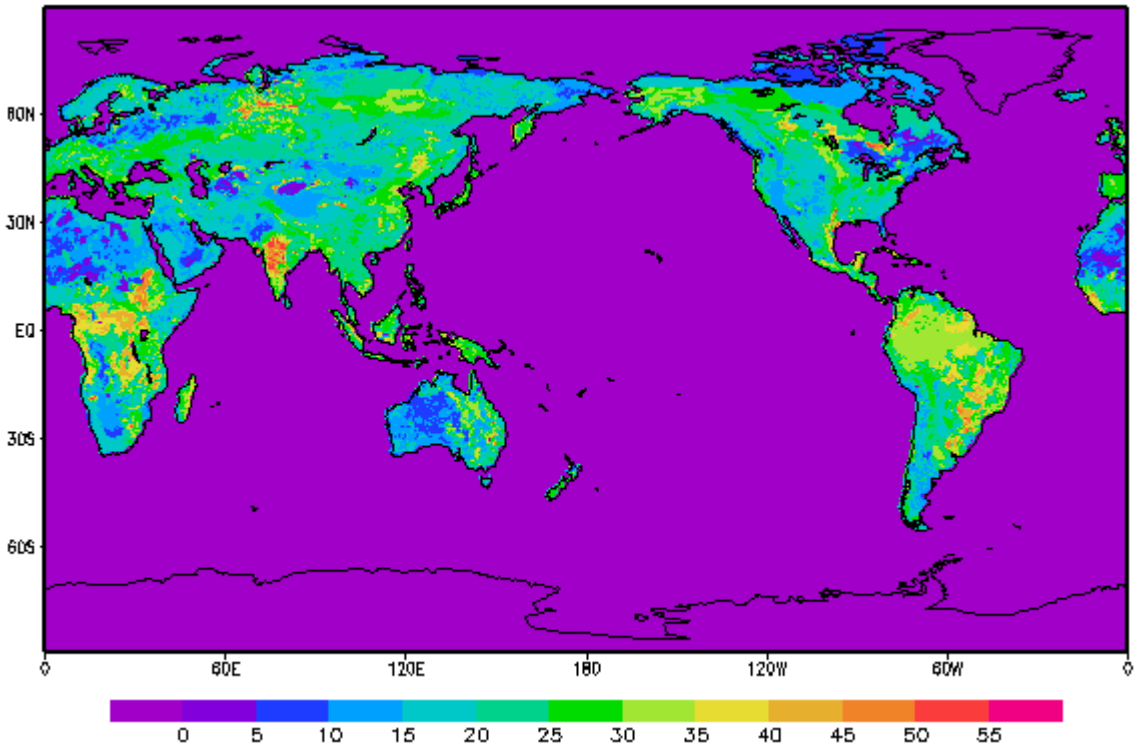
PorceClayMaskIBISClima

pre/dataout
PorceClayMaskIBISClima.dat

pre/dataout
PorceClayMaskIBISClimaG.dat
PorceClayMaskIBISClimaG.ctl



pre/dataout
PorceClayMaskIBISClimaG.dat
PorceClayMaskIBISClimaG.ctl



VARS 1
clay6 99 PorcClay Mask [No Dim]
ENDVARS

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

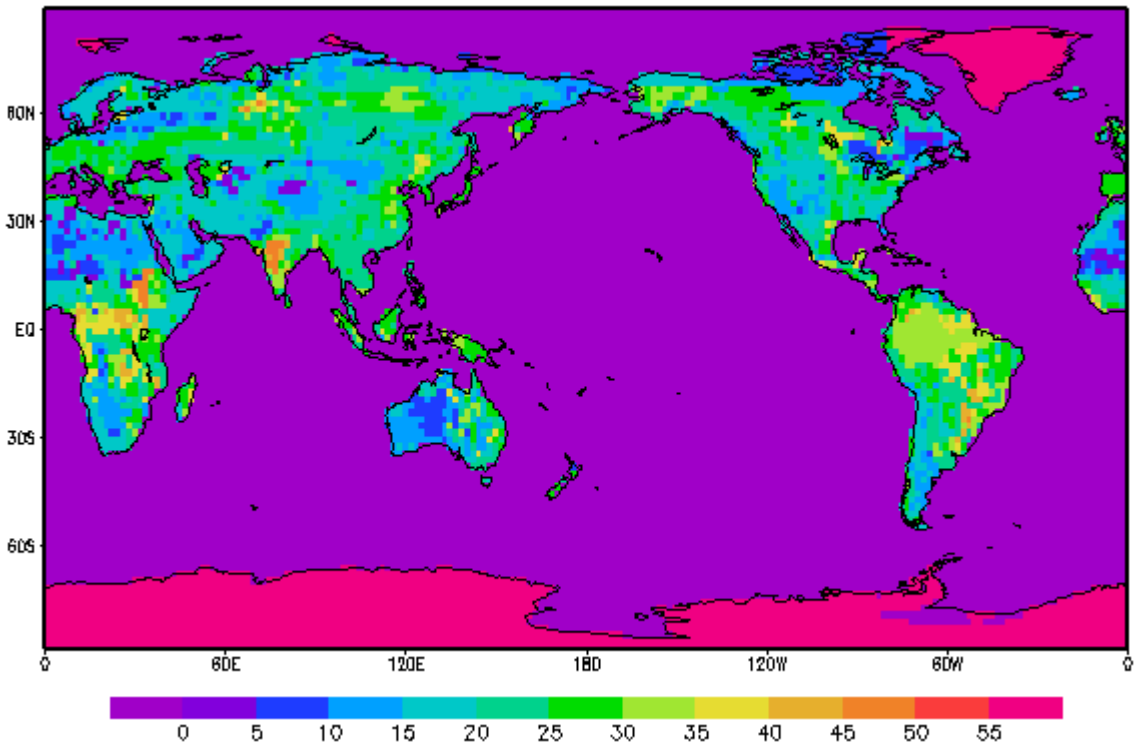
pre/dataout
PorceClayMaskIBISClima.dat

PorceClayMaskIBIS

model/datain
PorceClayMaskIBIS.GZZZZ

pre/dataout
ModelLandSeaMask.GZZZZ
PorceClayMaskIBIS.GZZZZ
PorceClayMaskIBIS.GZZZZ.ctl

pre/dataout
PorceClayMaskIBIS.GZZZZ
PorceClayMaskIBIS.GZZZZ.ctl



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

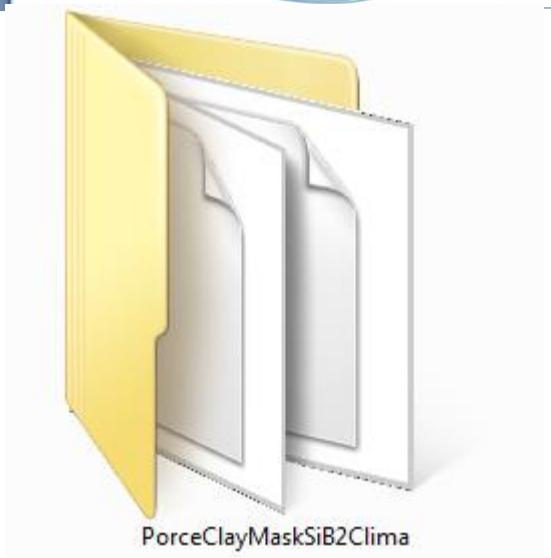
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceClayMaskSiB2Clima	05/03/2013 15:22	Arquivo F90	7 KB

pre/databcs
claymsk.form

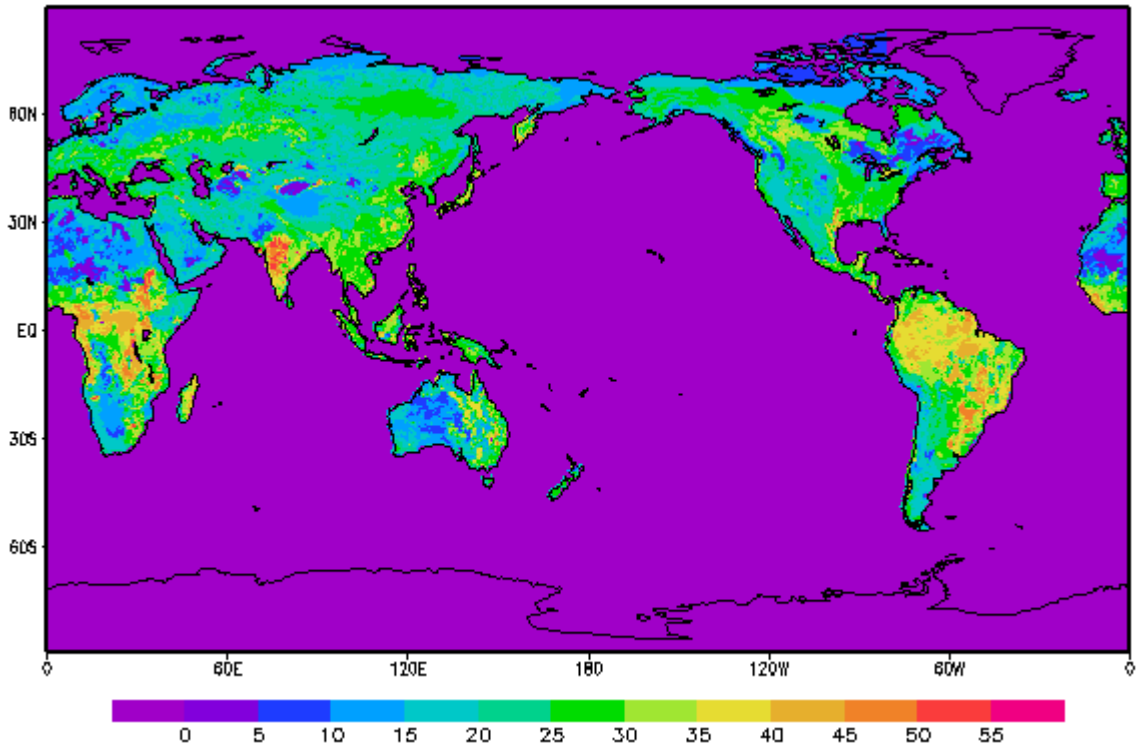
PorceClayMaskSiB2Clima

pre/dataout
PorceClayMaskSiB2**Clima.dat**

pre/dataout
PorceClayMaskSiB2ClimaG.dat
PorceClayMaskISiB2**limaG.ctl**



pre/dataout
PorceClayMaskSiB2ClimaG.dat
PorceClayMaskISiB2**limaG.ctl**



VARS 1
clayM 1 99 PorcClay Mask [No Dim]
ENDVARS

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
PorceClayMaskSiB2Clima.dat

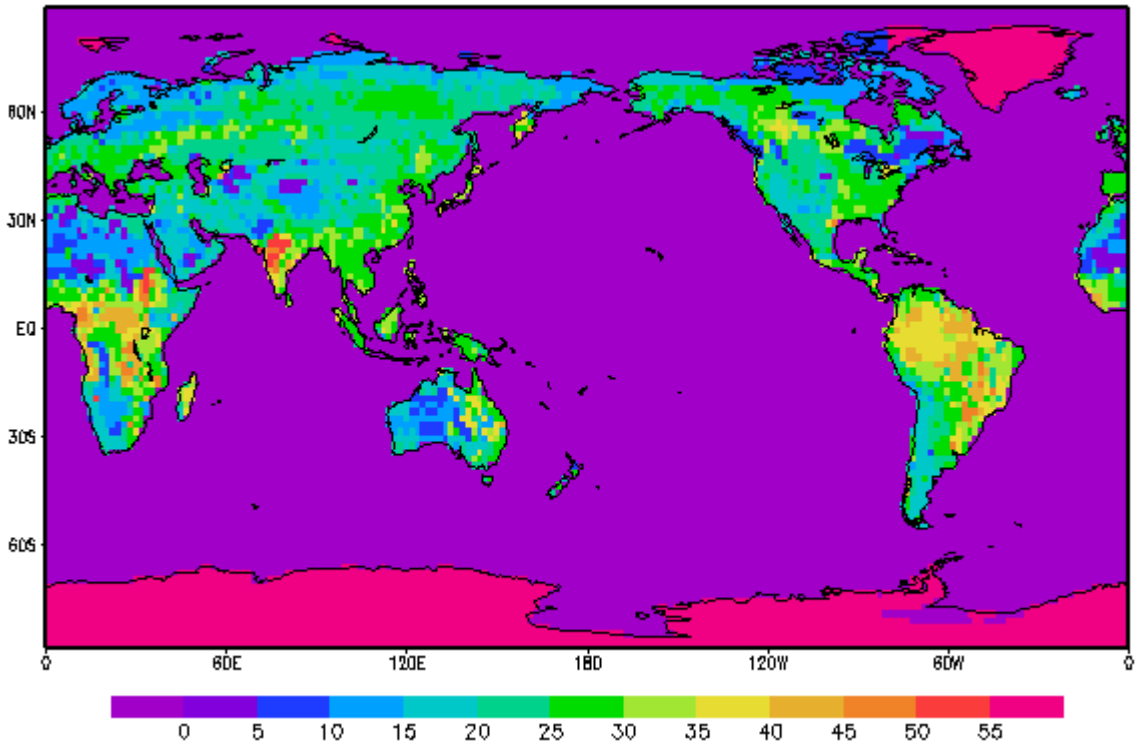
pre/dataout
LandSeaMaskGZZZZ

PorceClayMaskSiB2

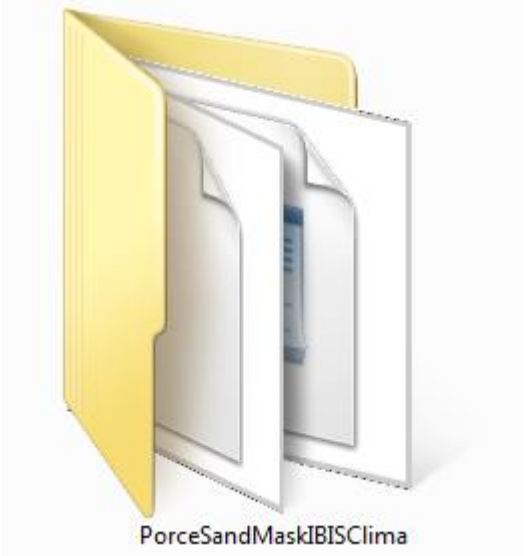
model/datain
PorceClayMaskSiB2.GZZZZ

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

pre/dataout
PorceClayMaskSiB2GZZZZ
PorceClayMaskSiB2.GZZZZ.ctl



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



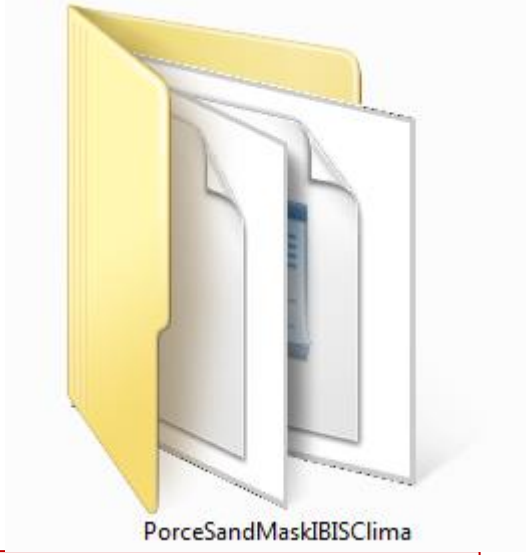
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceSandMaskIBISClima	05/03/2013 17:49	Arquivo F90	7 KB

pre/databcs
sandmsk.form

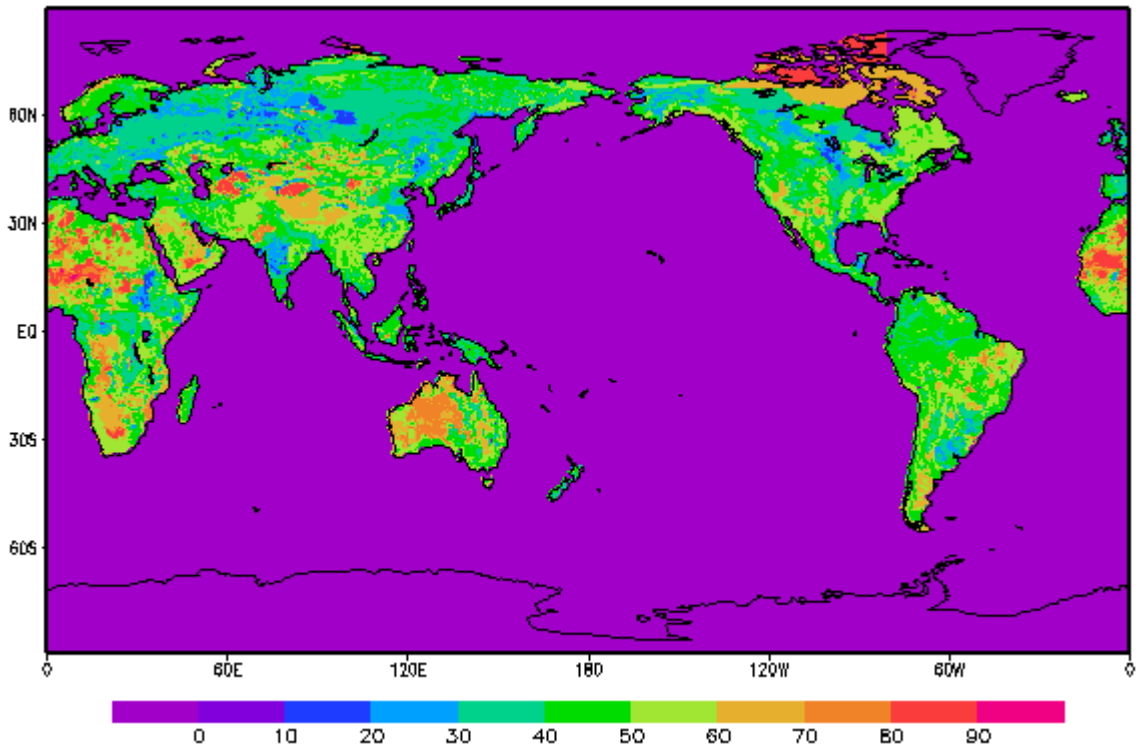
PorceSandMaskIBISClima

pre/dataout
PorceSandMaskIBISClima.dat

pre/dataout
PorceSandMaskIBISClimaG.dat
PorceSandMaskIBISClimaG.ctl



pre/dataout
PorceSandMaskIBISClimaG.dat
PorceSandMaskIBISClimaG.ctl



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

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

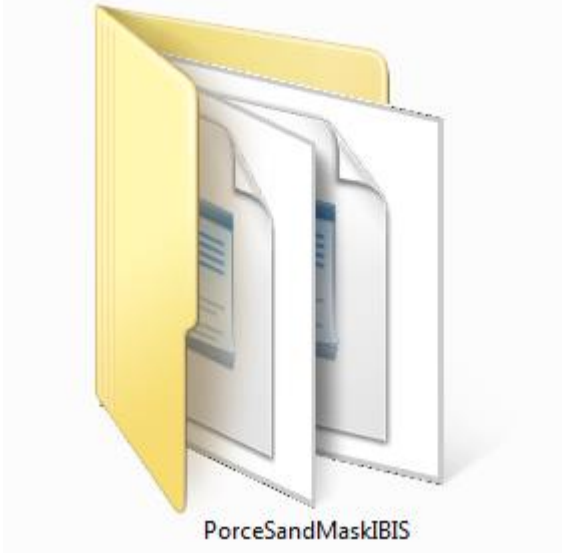
pre/dataout
PorceSandMaskIBISClima.dat

pre/dataout
LandSeaMaskGZZZZ

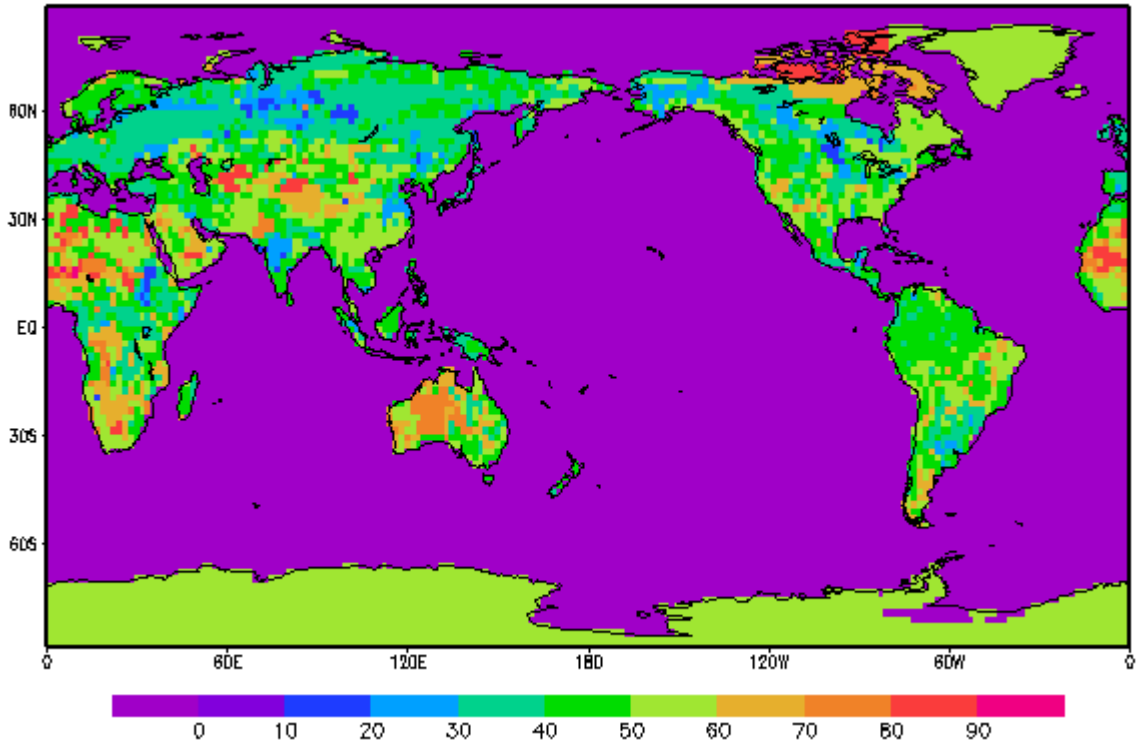
PorceSandMaskIBIS

model/datain
PorceSandMaskIBIS.GZZZZ

pre/dataout
ModelLandSeaMask.GZZZZ
PorceSandMaskIBIS.GZZZZ
PorceSandMaskIBIS.GZZZZ.ctl



pre/dataout
PorceSandMaskIBIS.GZZZZ
PorceSandMaskIBIS.GZZZZ.ctl



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

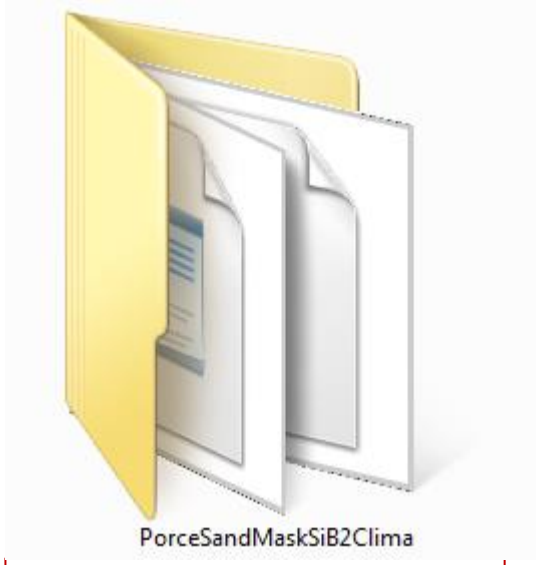
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
PorceSandMaskSiB2Clima	05/03/2013 17:58	Arquivo F90	7 KB

pre/databcs
sandmsk.form

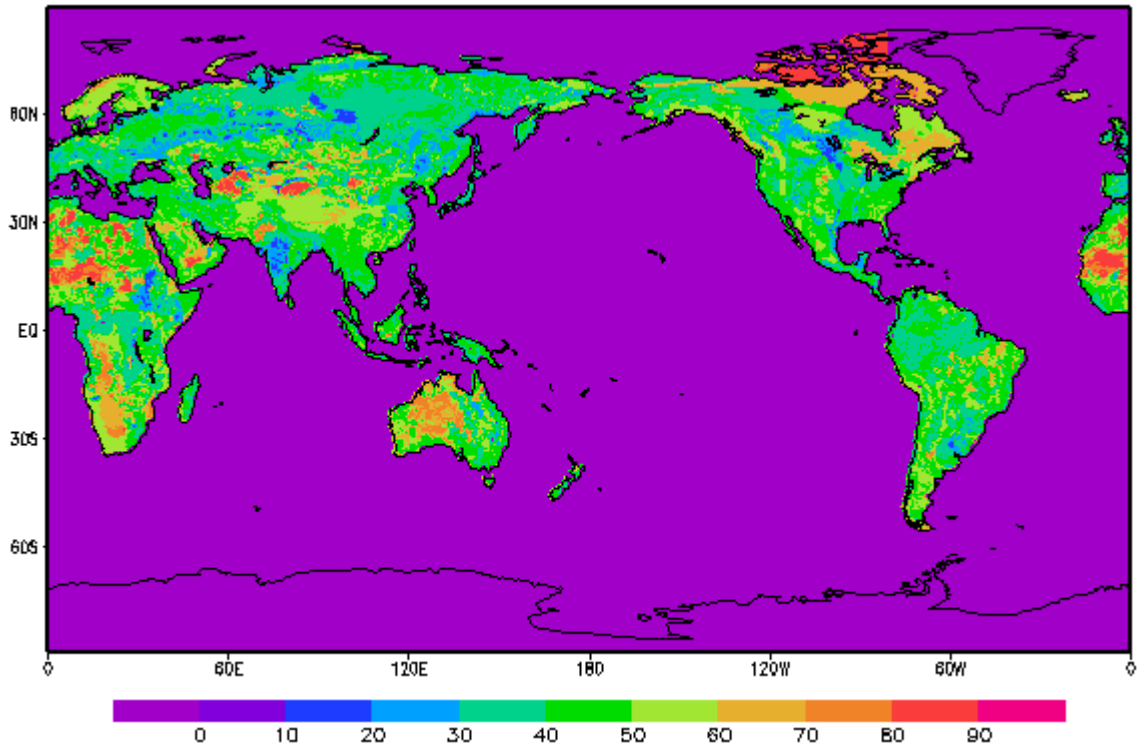
PorceSandMaskSiB2Clima

pre/dataout
PorceSandMaskSiB2**Clima.dat**

pre/dataout
PorceSandMaskSiB2ClimaG.dat
PorceSandMaskISiB2**limaG.ctl**



pre/dataout
PorceSandMaskSiB2ClimaG.dat
PorceSandMaskISiB2**limaG.ctl**



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

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

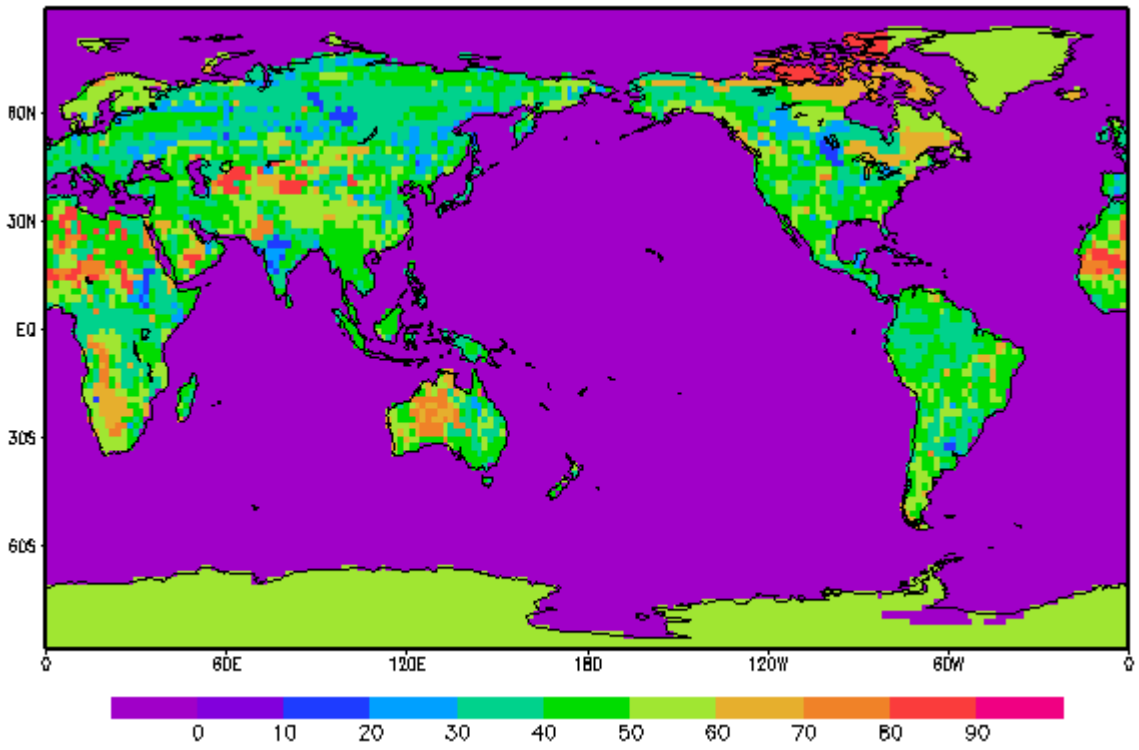
pre/dataout
PorceSandMaskSiB2Clima.dat

PorceClayMaskSiB2

model/datain
PorceSandMaskSiB2.GZZZZ

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

pre/dataout
PorceSandMaskSiB2GZZZZ
PorceSandMaskSiB2.GZZZZ.ctl



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

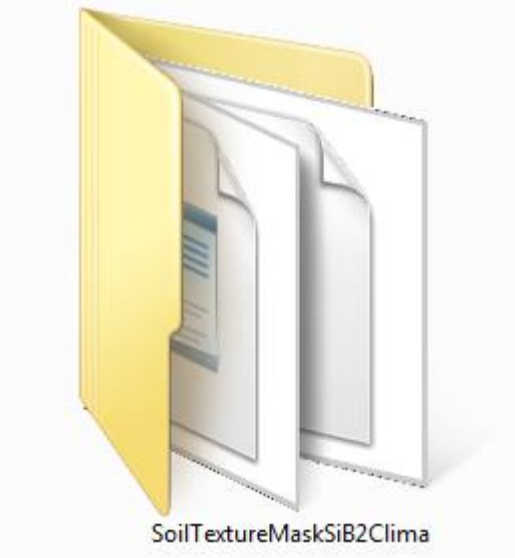
Nome	Data de modificaç...	Tipo	Tamanho
Makefile	07/11/2012 15:42	Arquivo	1 KB
Makefile.common	07/11/2012 15:42	Arquivo COMMON	1 KB
SoilTextureMaskSiB2Clima	05/03/2013 18:08	Arquivo F90	7 KB

pre/databcs
soiltext.form

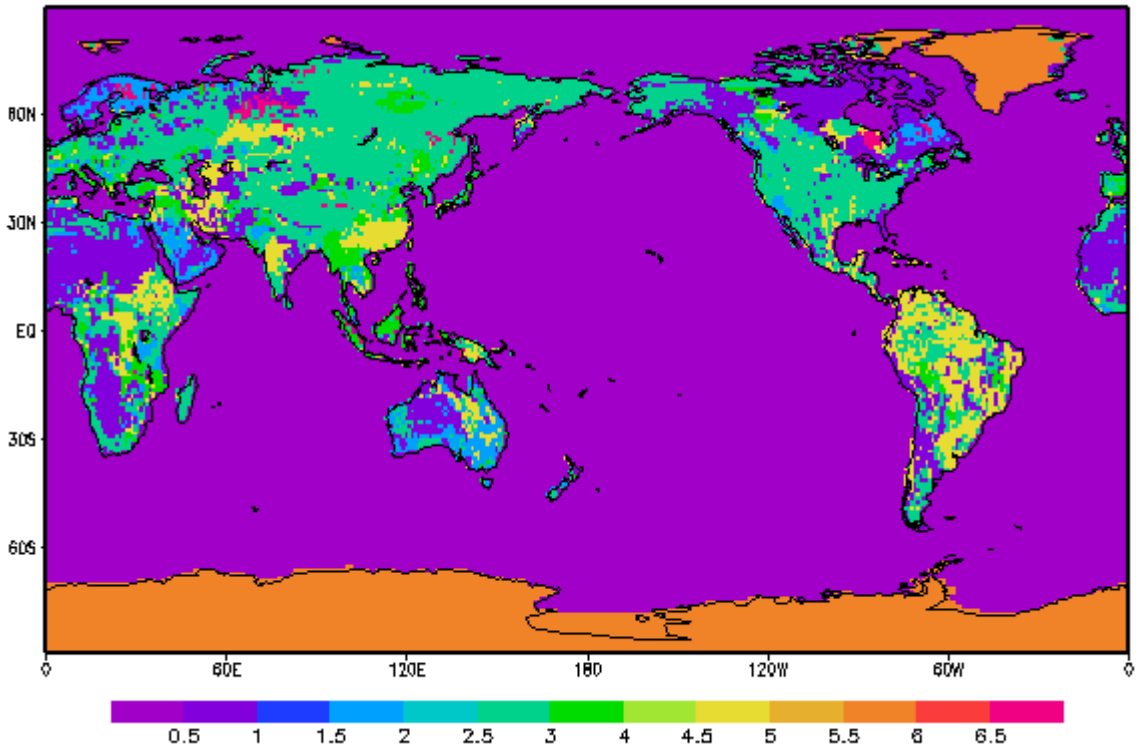
SoilTextureMaskSiB2Clima

pre/dataout
SoilTextureMaskClima2.dat

pre/dataout
SoilTextureMaskClima2G.dat
SoilTextureMaskClima2G.ctl



pre/dataout
SoilTextureMaskClima2G.dat
SoilTextureMaskClima2G.ctl



VARS 1
soilTxt 0 99 **SoilTextureMask** Mask [No Dim]
ENDVARS

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

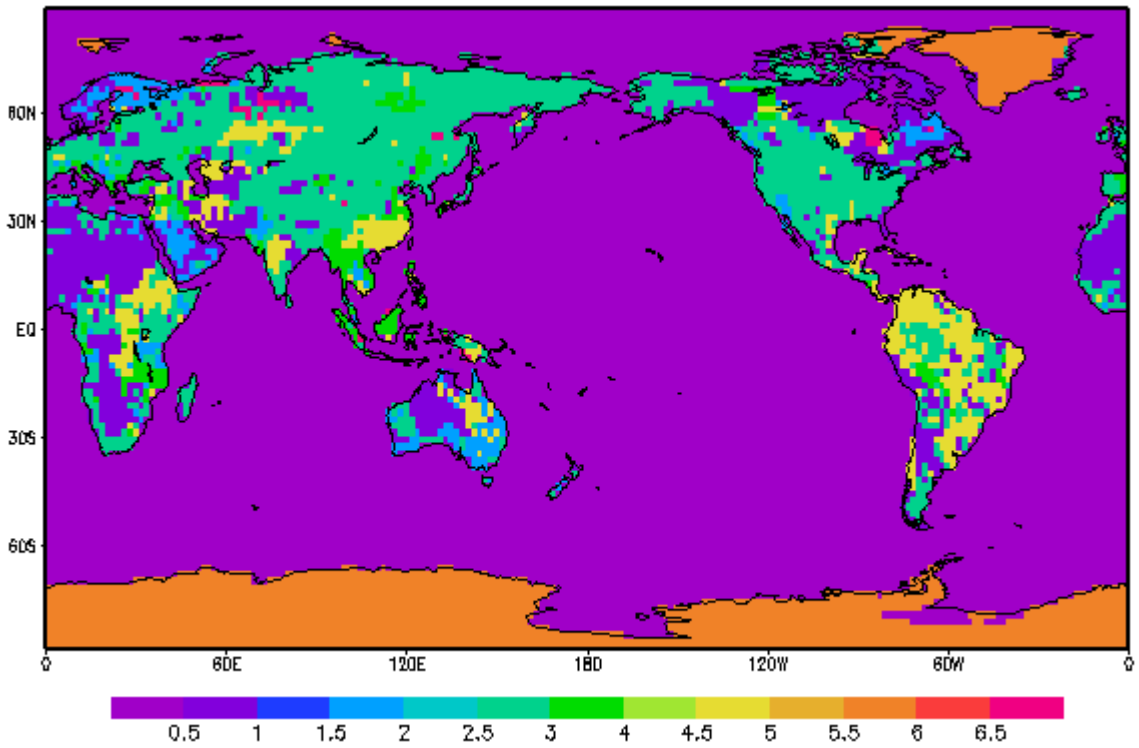
pre/dataout
SoilTextureMaskClima.dat

SoilTextureMaskSiB2

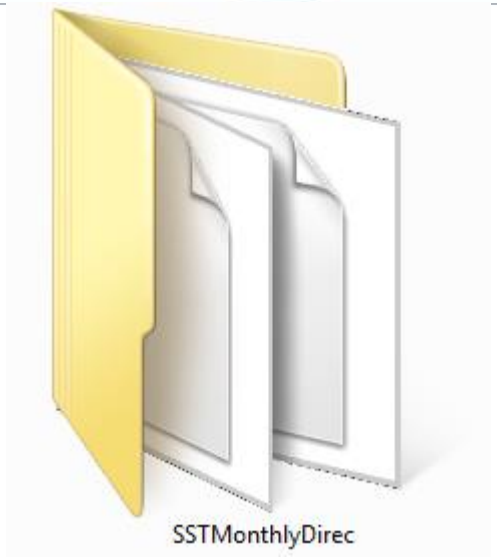
model/datain
SoilTextureMaskSiB2.GZZZZ

pre/dataout
ModelLandSeaMask.GZZZZ
SoilTextureMaskSiB2.GZZZZ
SoilTextureMaskSiB2.GZZZZ.ctl

pre/dataout
SoilTextureMaskSiB2.GZZZZ
SoilTextureMaskSiB2.GZZZZ.ctl



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



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
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/dataout
ModelLandSeaMask.GZZZZ

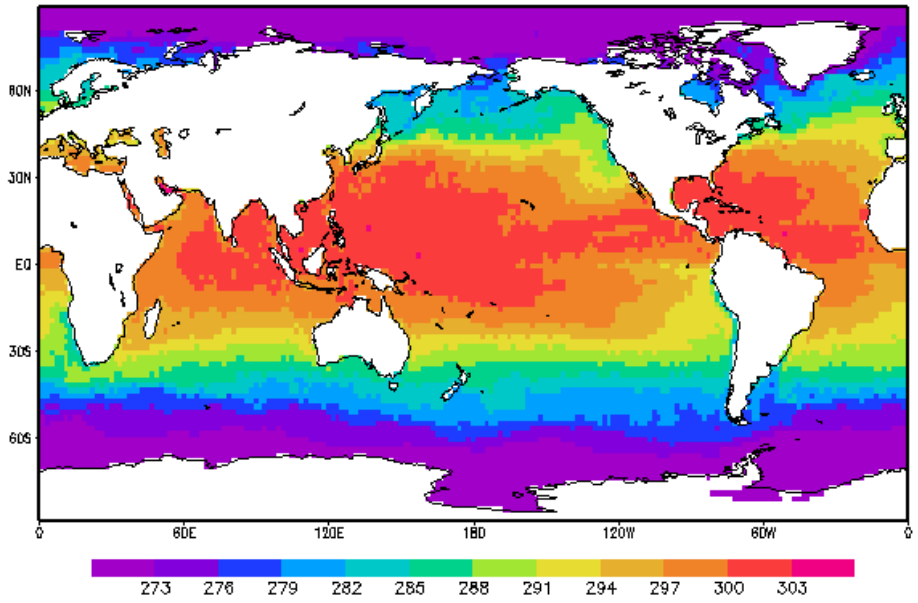
pre/datasst/oiv2monthly
sstmtd.nml
Sstoiv.YYYYMMDD

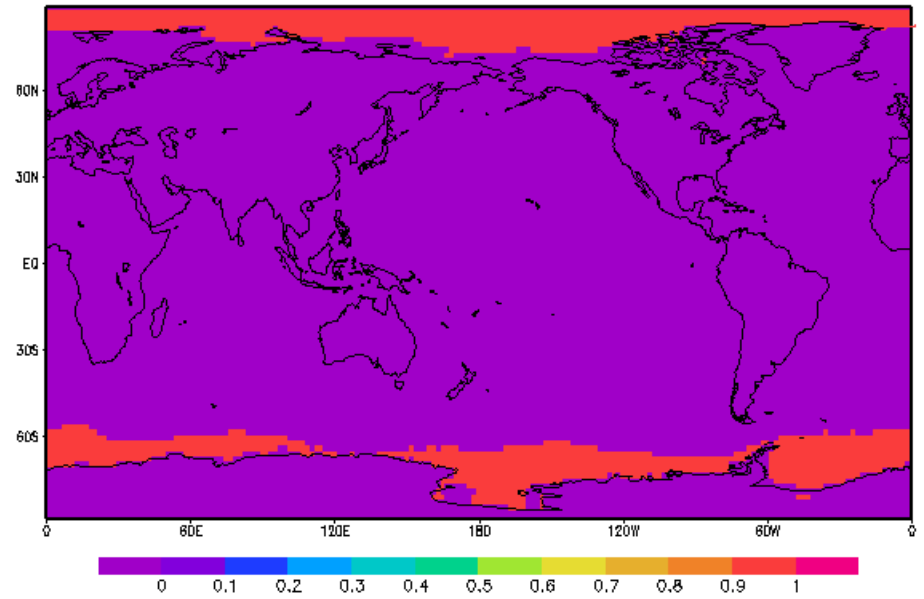
SSTMonthlyDirec

model/datain
SSTMonthlyDirec. YYYYMMDD.GZZZZ

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

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





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

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/datain
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/dataout
ModelLandSeaMask.GZZZZ

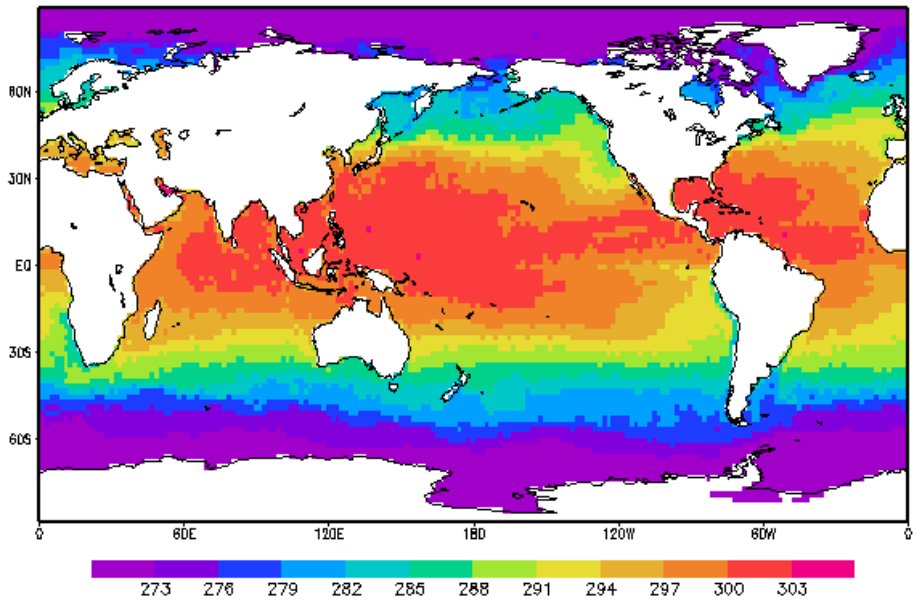
pre/datasst/oiv2daily
sstmtd.nml
Sstoiv.YYYYMMDD

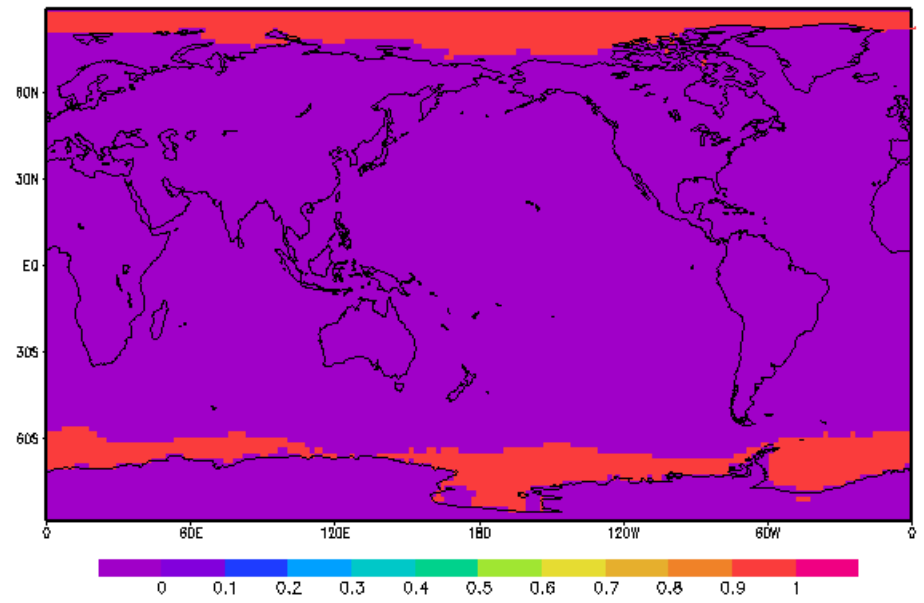
SSTDailyDirec

model/datain
SSTDailyDirec. YYYYMMDD.GZZZZ

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

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





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
GANLNMCYYYYMMDDHHS.unf.TQYYYYLZZZ

pre/dataout
ModelLandSeaMask.GZZZZ

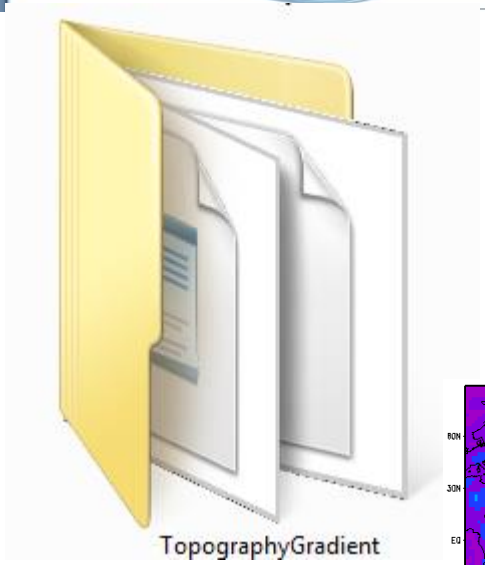
pre/dataout/
HPRIME.dat

TopographyGradient

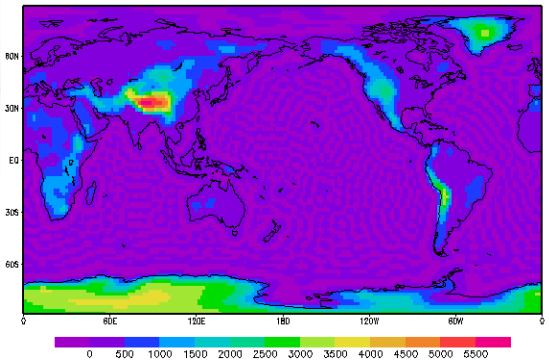
pre/dataout
HPRIME. GZZZZ
HPRIME.GZZZZ.ctl

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

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



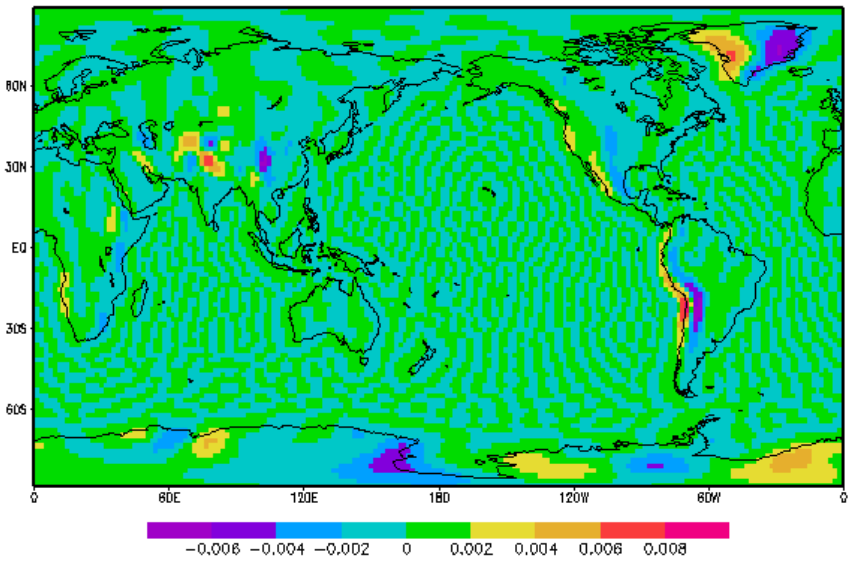
topo



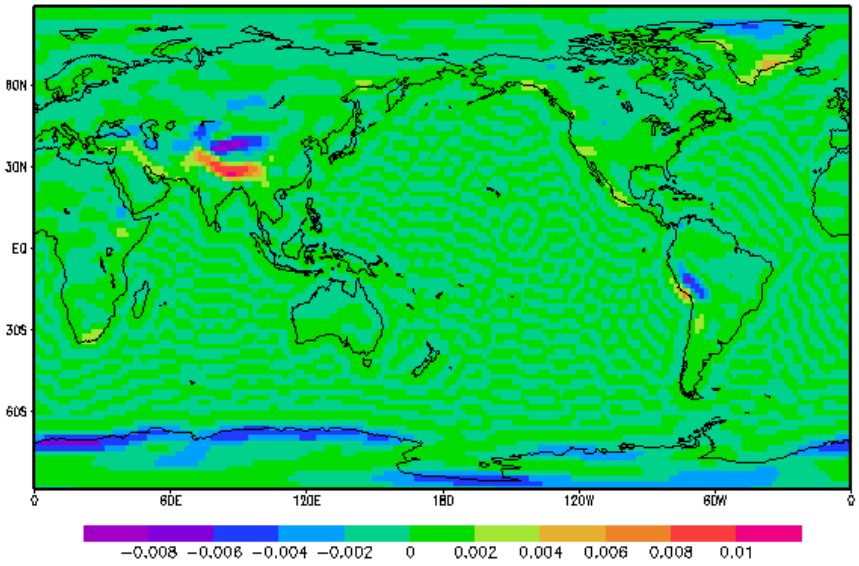
pre/dataout
HPRIME. GZZZZ
HPRIME.GZZZZ.ctl

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

dtpx



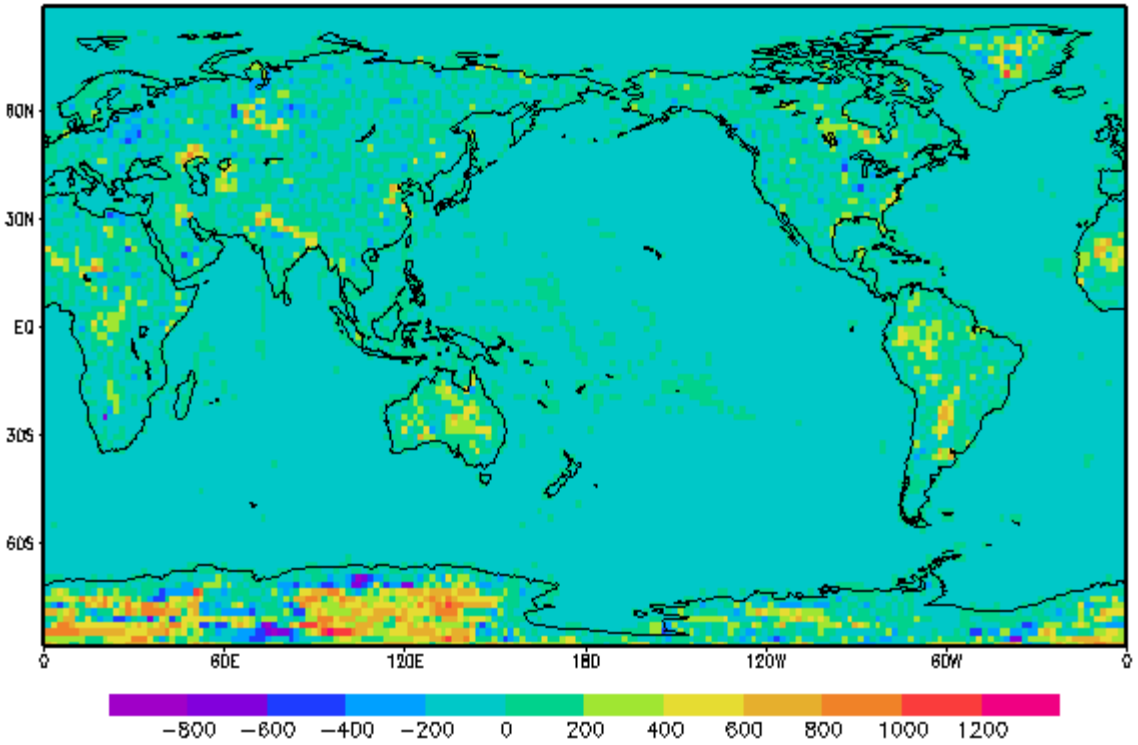
dtpy



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

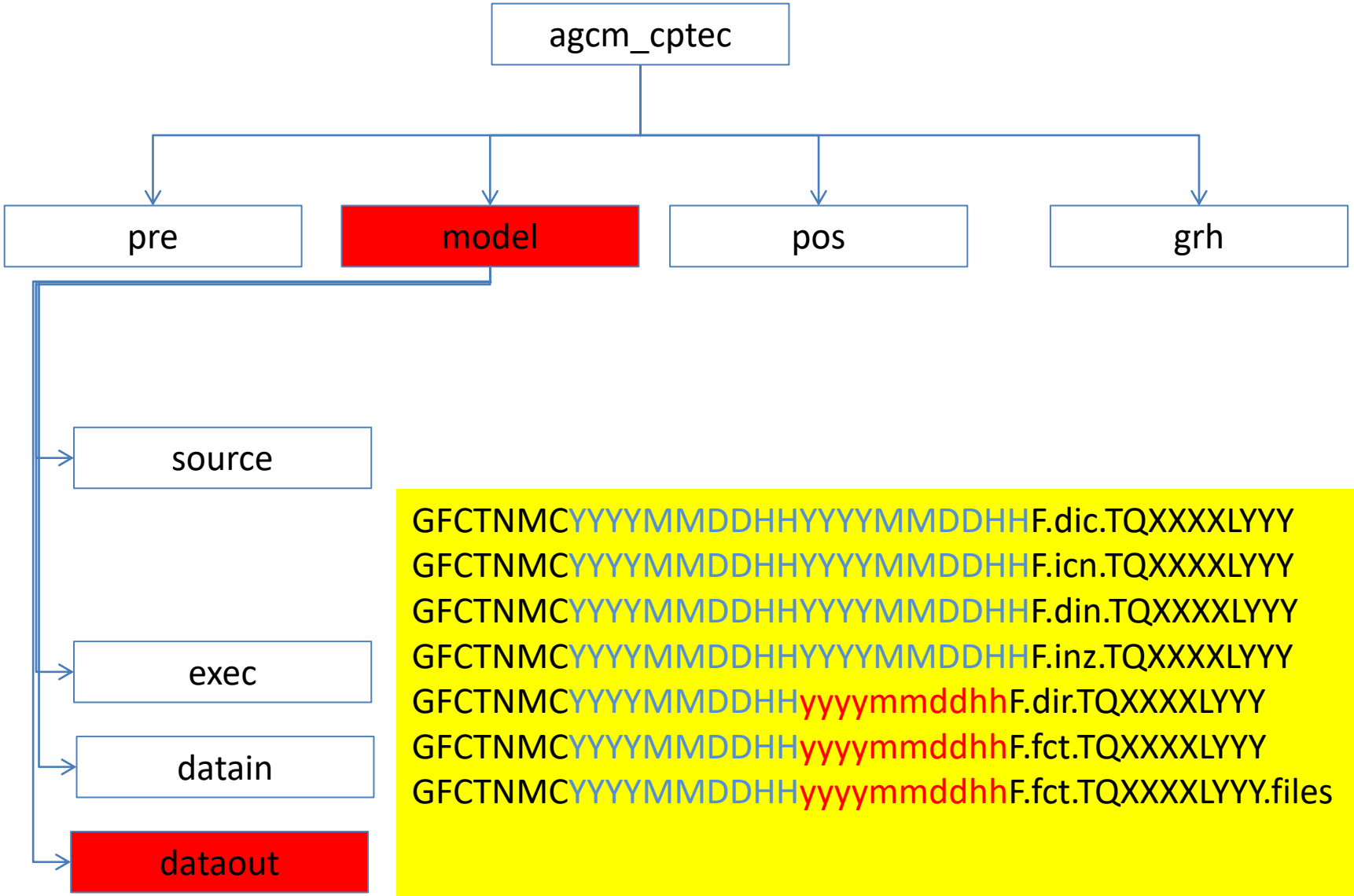
HPRIME. GZZZZ
HPRIME.GZZZZ.ctl

HSTDV



VARS 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



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GFCTNMCYYYYMMDDHHYYYYMMDDHHF.din.TQXXXXLYYY
GFCTNMCYYYYMMDDHHYYYYMMDDHHF.inz.TQXXXXLYYY
GFCTNMCYYYYMMDDHHyyyymmddhhF.dir.TQXXXXLYYY
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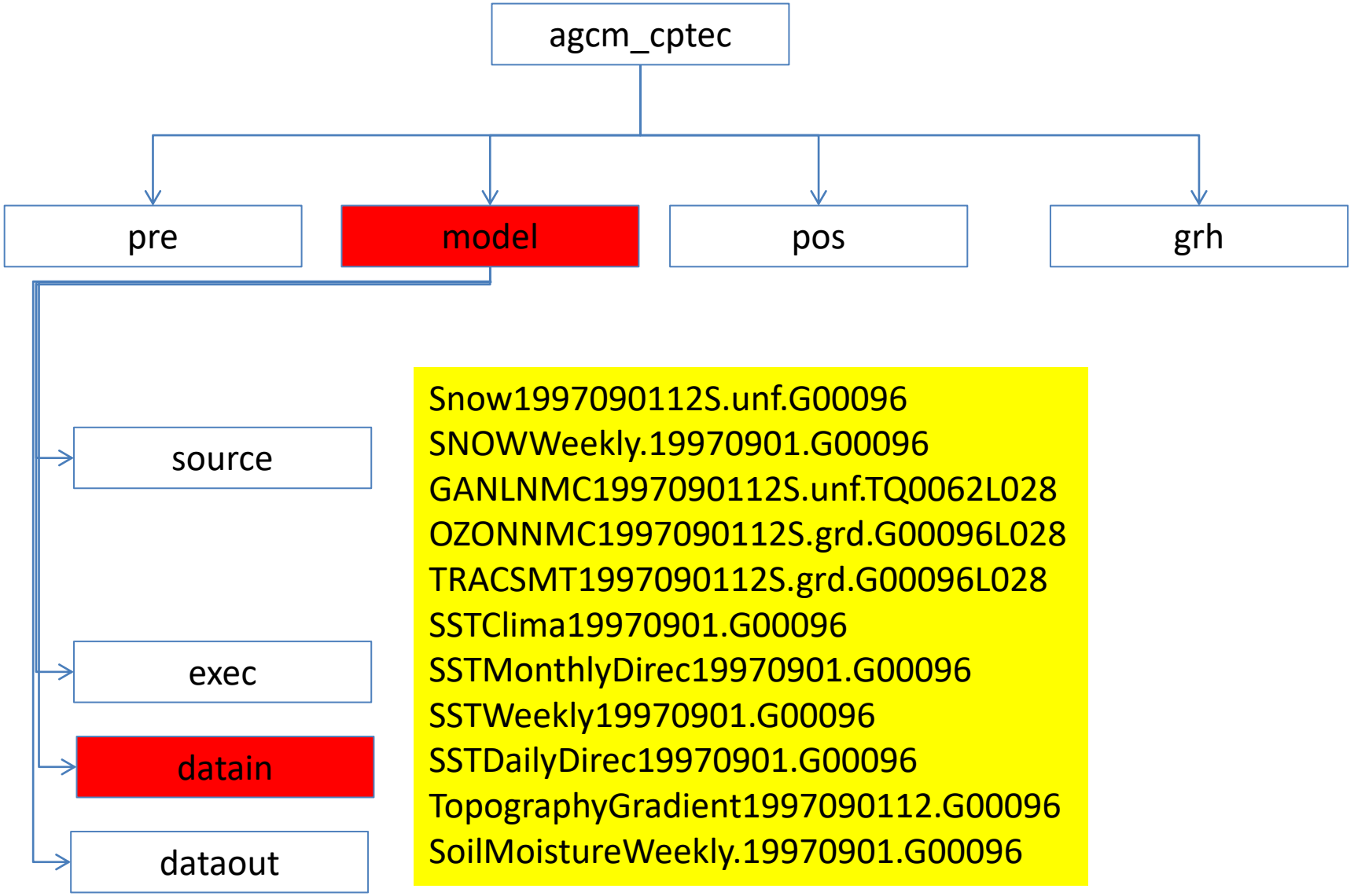
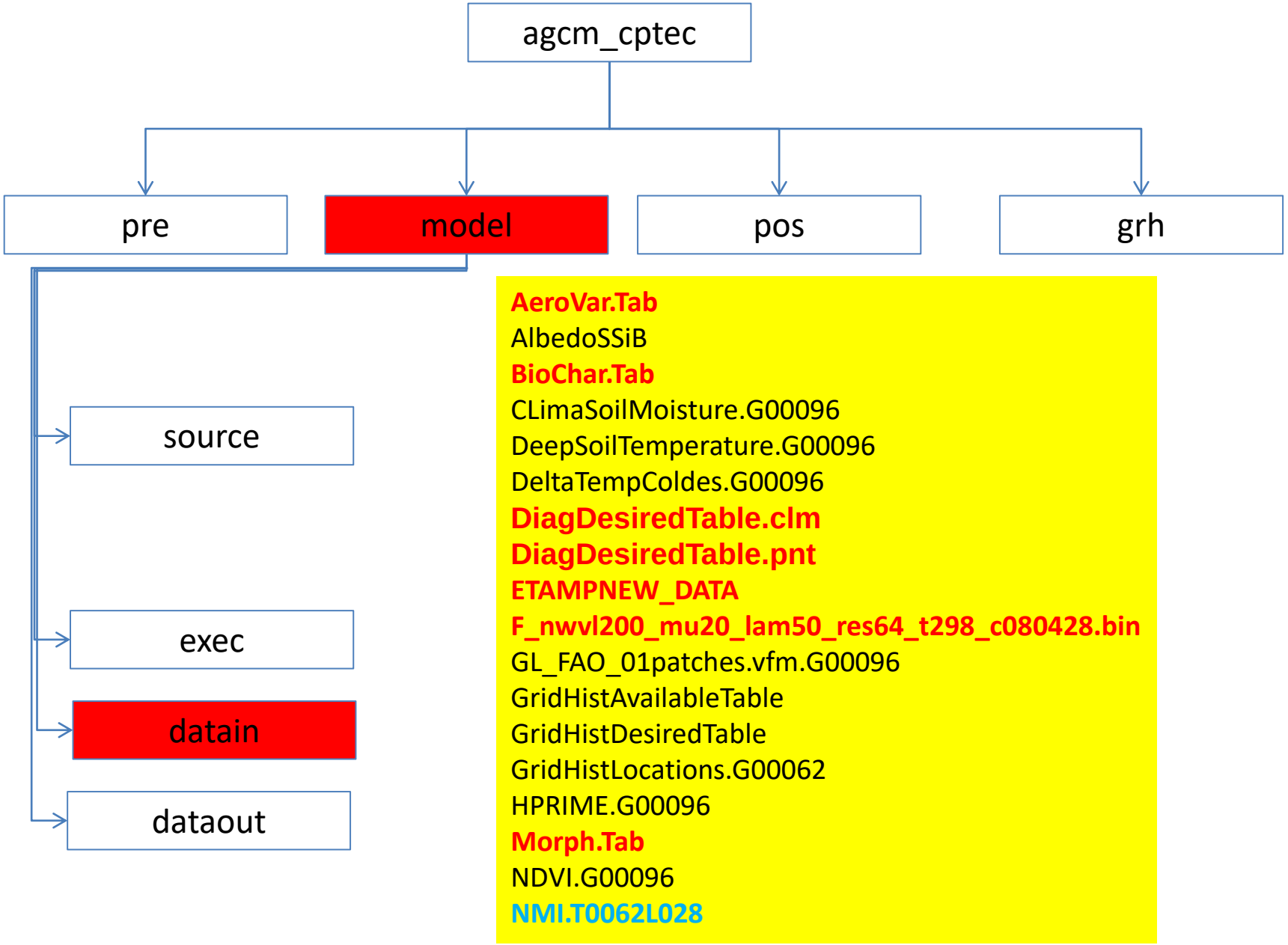
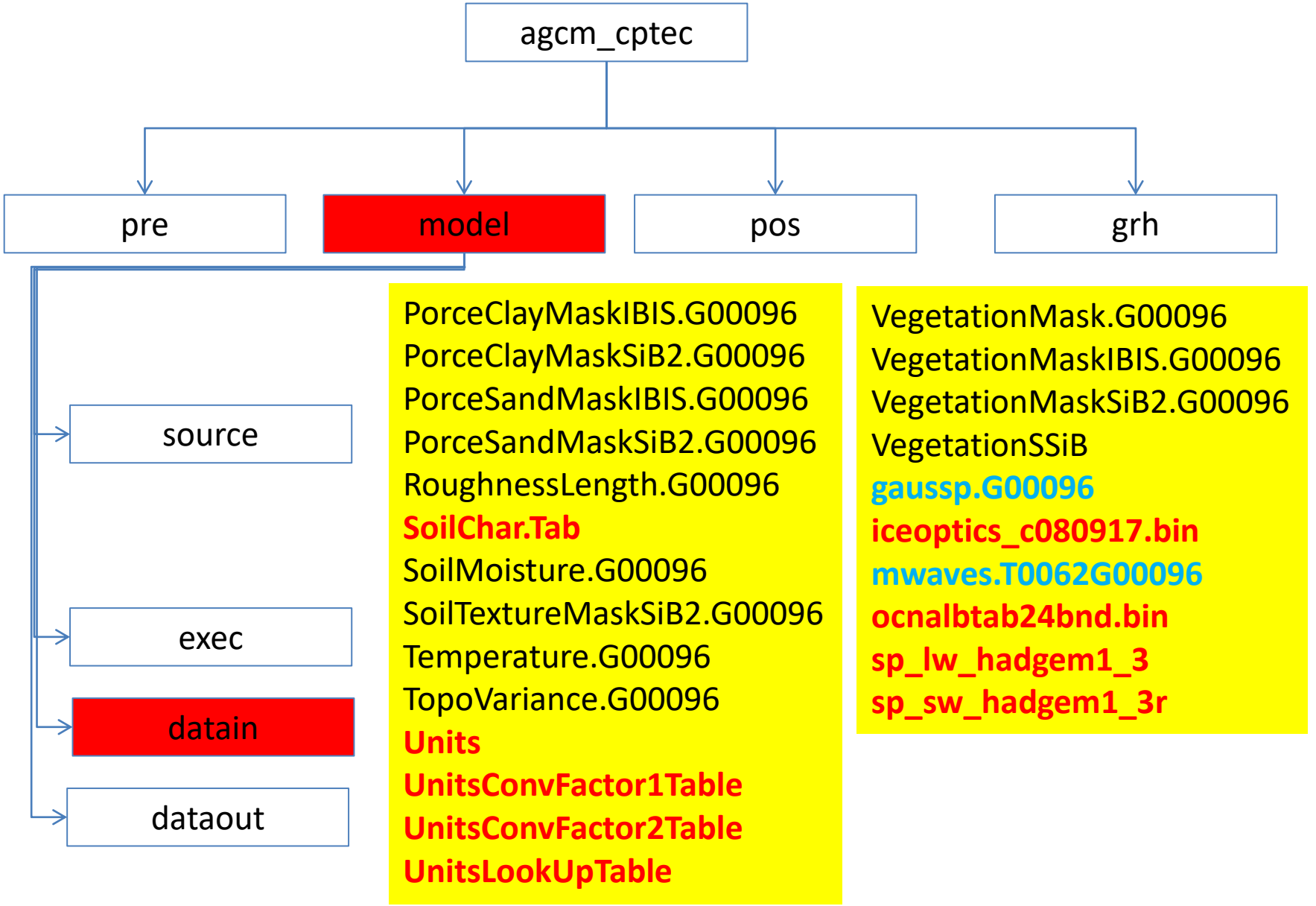
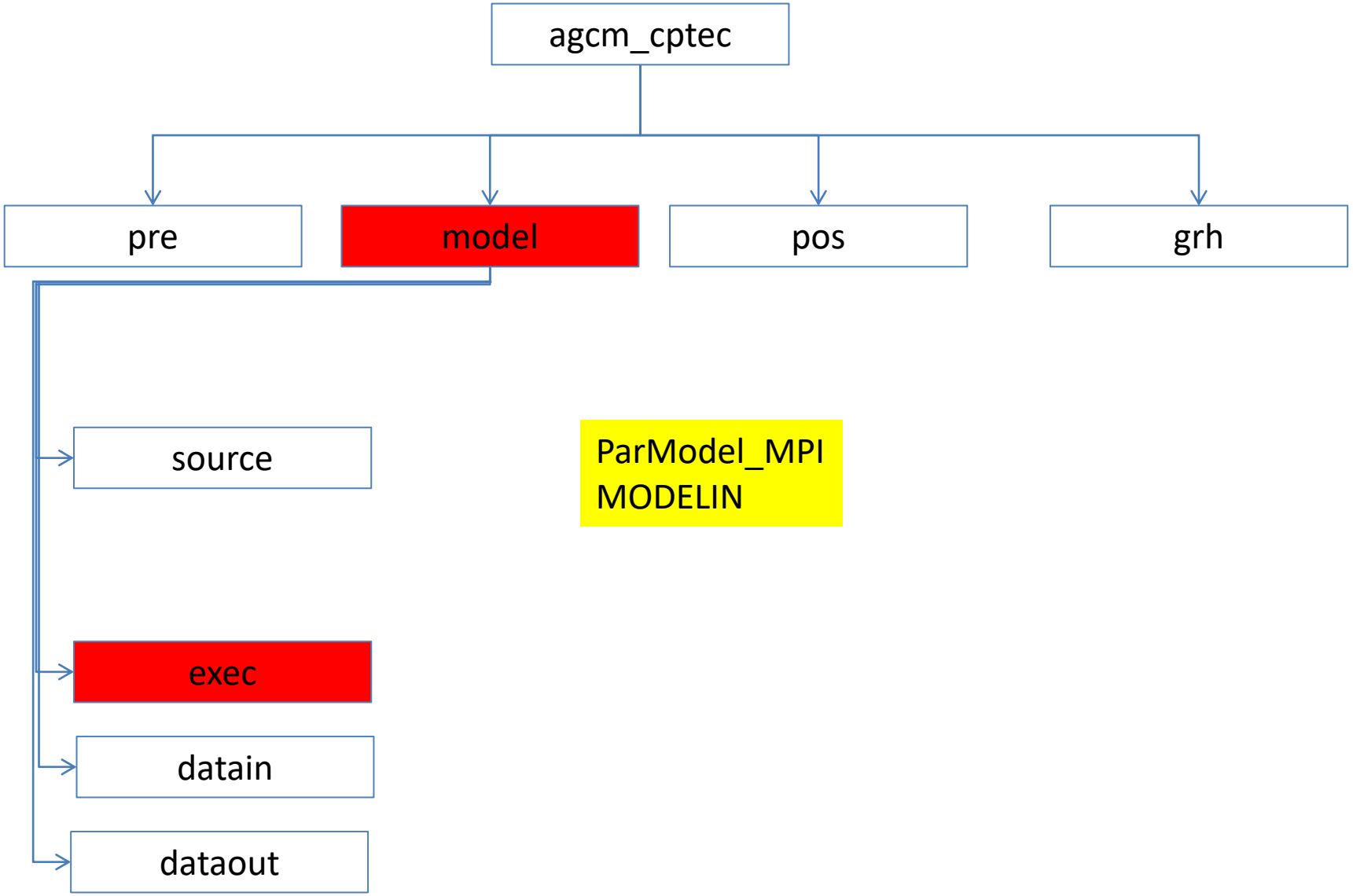
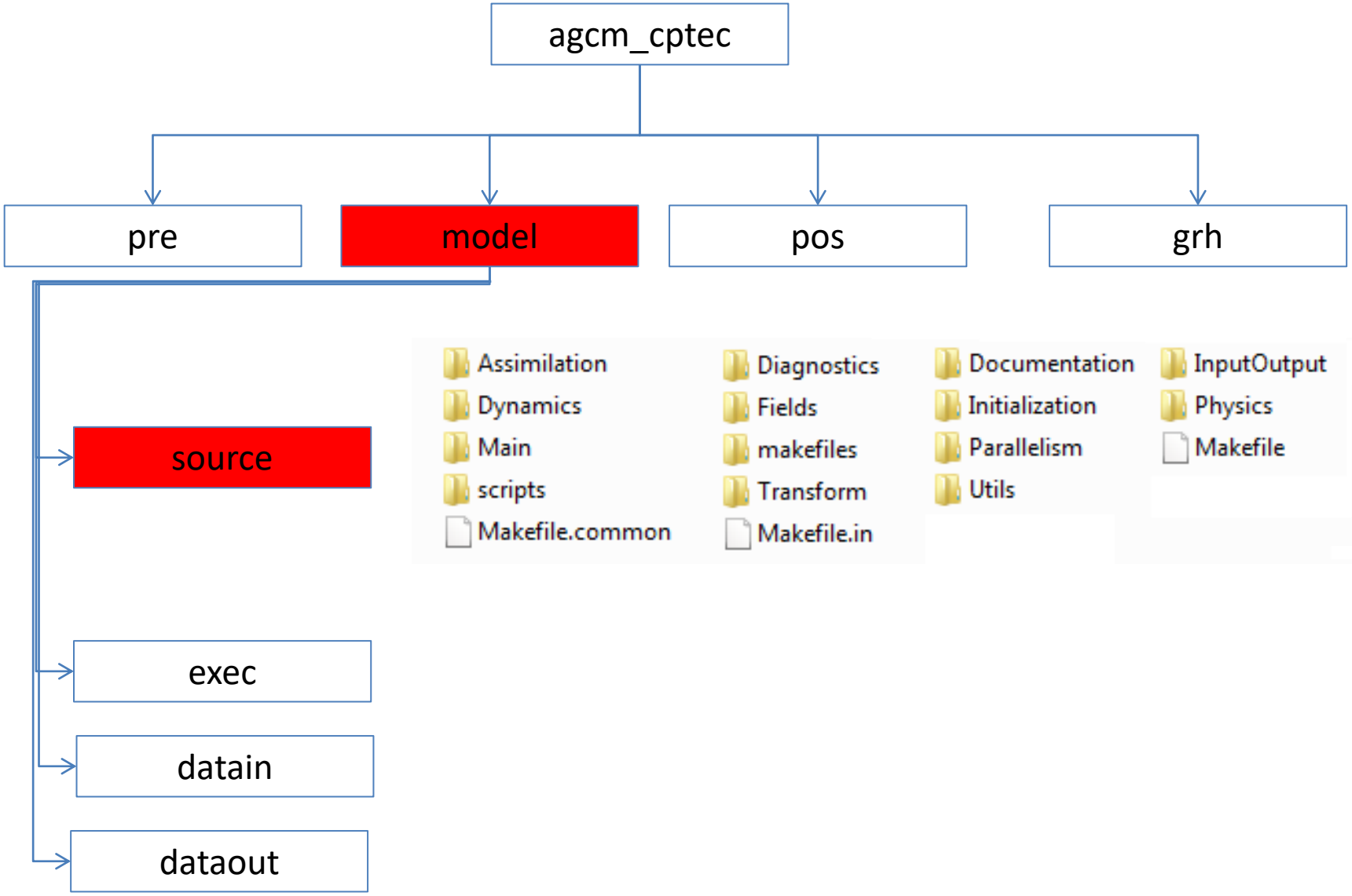
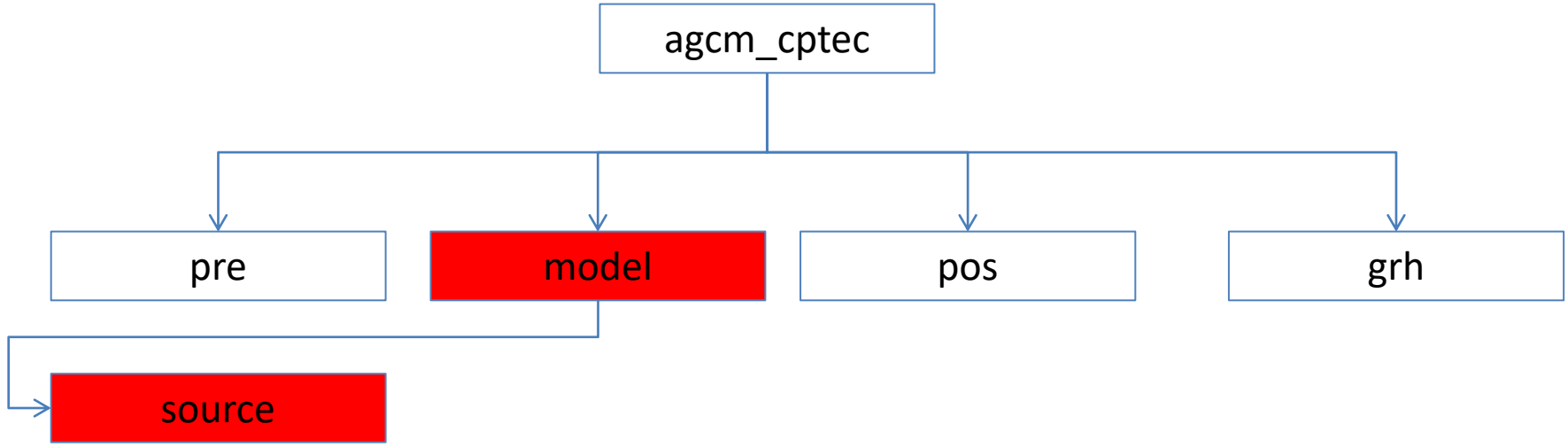

agcm_cptec
pre
model
pos
grh
source
exec
datain
dataout
Snow1997090112S.unf.G00096
SNOWWeekly.19970901.G00096
GANLNMC1997090112S.unf.TQ0062L028
OZONNMC1997090112S.grd.G00096L028
TRACSMT1997090112S.grd.G00096L028
SSTClima19970901.G00096
SSTMonthlyDirec19970901.G00096
SSTWeekly19970901.G00096
SSTDailyDirec19970901.G00096
TopographyGradient1997090112.G00096
SoilMoistureWeekly.19970901.G00096


agcm_cptec
pre
model
pos
grh
source
exec
datain
dataout
AeroVar.Tab
AlbedoSSiB
BioChar.Tab
CLimaSoilMoisture.G00096
DeepSoilTemperature.G00096
DeltaTempColdes.G00096
DiagDesiredTable.clm
DiagDesiredTable.pnt
ETAMPNEW_DATA
F_nwvl200_mu20_lam50_res64_t298_c080428.bin
GL_FAO_01patches.vfm.G00096
GridHistAvailableTable
GridHistDesiredTable
GridHistLocations.G00062
HPRIME.G00096
Morph.Tab
NDVI.G00096
NMI.T0062L028

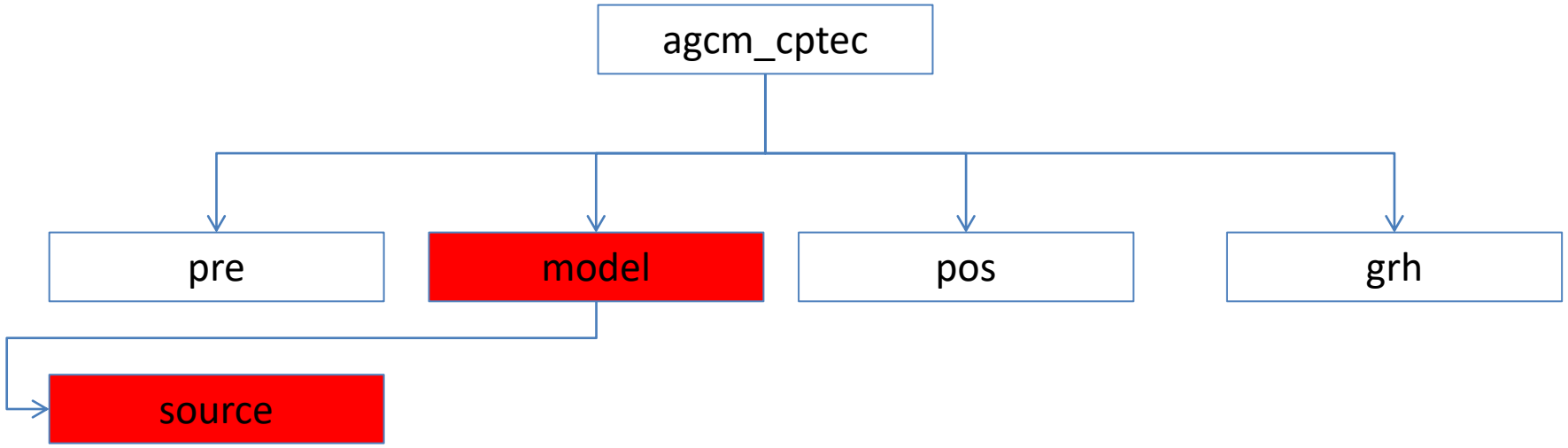

agcm_cptec
pre
model
pos
grh
source
exec
datain
dataout
PorceClayMaskIBIS.G00096
PorceClayMaskSiB2.G00096
PorceSandMaskIBIS.G00096
PorceSandMaskSiB2.G00096
RoughnessLength.G00096
SoilChar.Tab
SoilMoisture.G00096
SoilTextureMaskSiB2.G00096
Temperature.G00096
TopoVariance.G00096
Units
UnitsConvFactor1Table
UnitsConvFactor2Table
UnitsLookUpTable
VegetationMask.G00096
VegetationMaskIBIS.G00096
VegetationMaskSiB2.G00096
VegetationSSiB
gaussp.G00096
iceoptics_c080917.bin
mwaves.T0062G00096
ocnalbtab24bnd.bin
sp_lw_hadgem1_3
sp_sw_hadgem1_3r

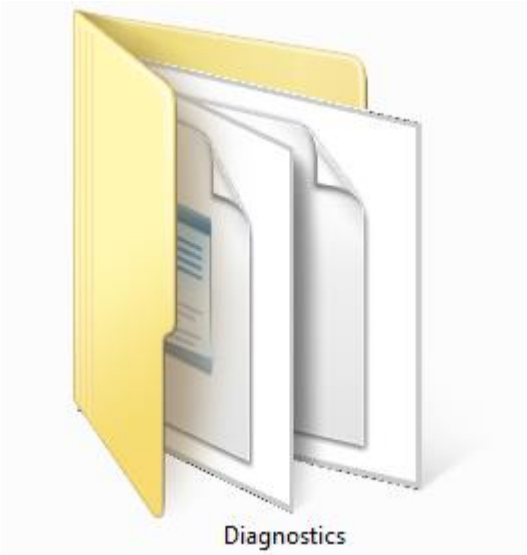

agcm_cptec
pre
model
pos
grh
source
exec
datain
dataout
ParModel_MPI
MODELIN


agcm_cptec
pre
model
pos
grh
source
exec
datain
dataout
Assimilation
Diagnostics
Documentation
InputOutput
Dynamics
Fields
Initialization
Physics
Main
makefiles
Parallelism
Makefile
scripts
Transform
Utils
Makefile.common
Makefile.in

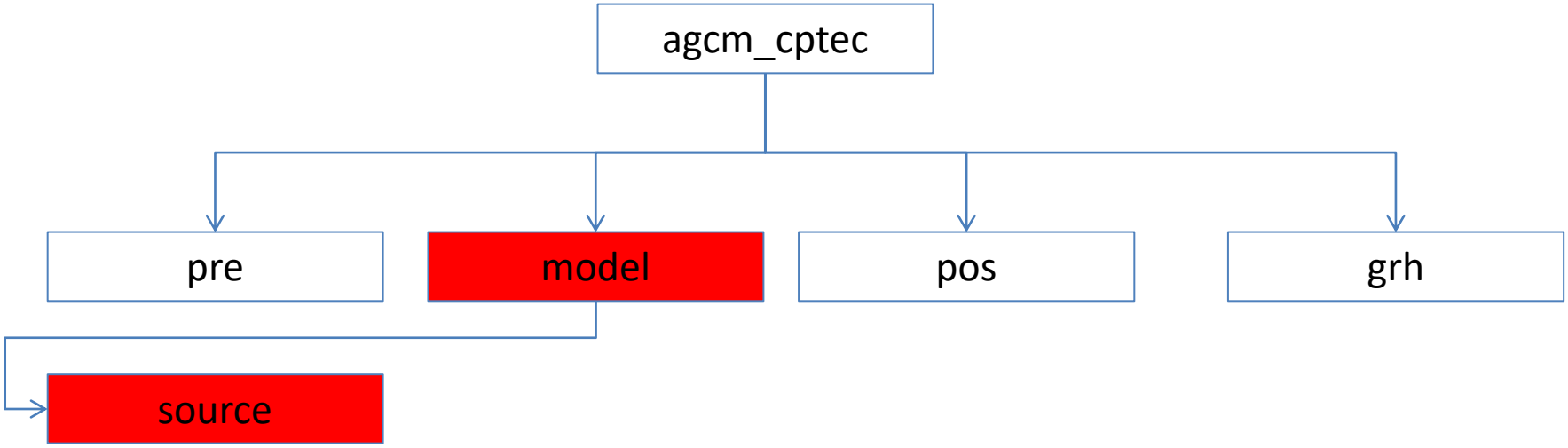


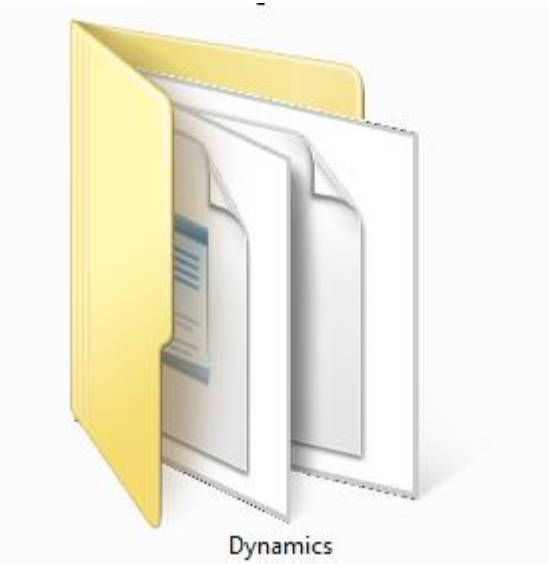
Nome	Data de modificaç...	Tipo	Tamanho
GridDump	28/08/2013 14:06	Arquivo F90	22 KB
SpecDump	06/04/2015 09:34	Arquivo F90	27 KB
SpecDump.f90.in	28/08/2013 14:06	Arquivo IN	27 KB



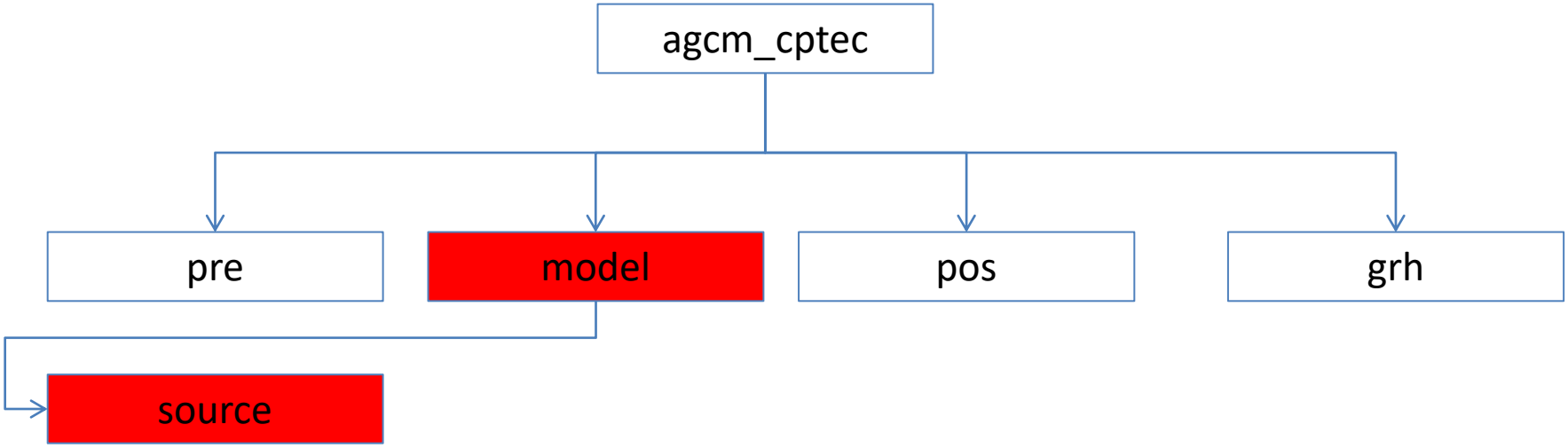


Nome	Data de modificaç...	Tipo	Tamanho
Diagnostics	28/08/2013 14:06	Arquivo F90	137 KB
GridHistory	28/08/2013 14:06	Arquivo F90	49 KB

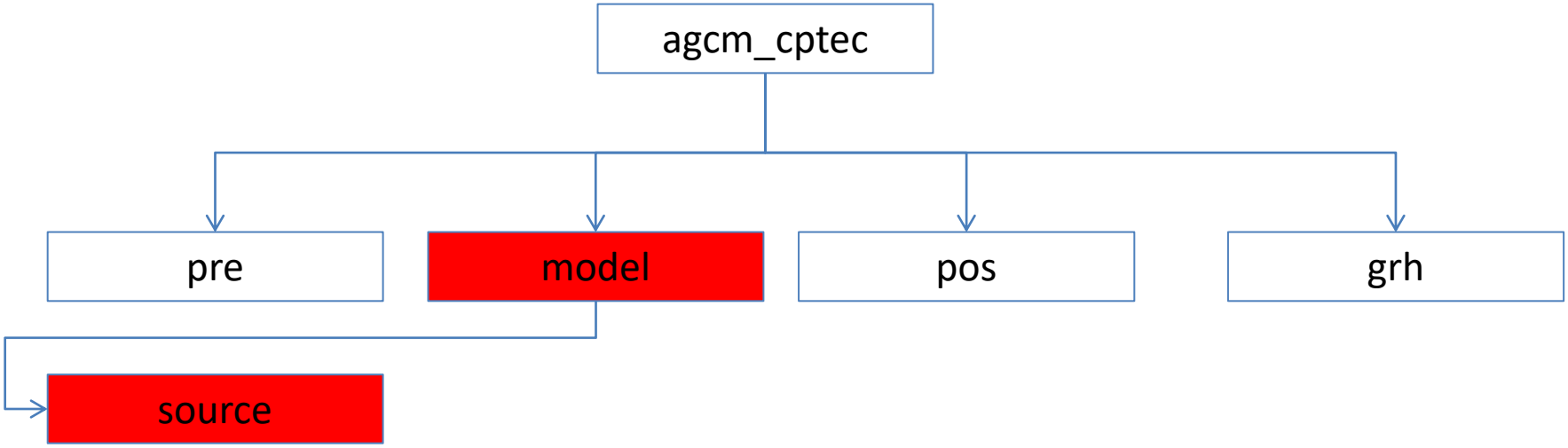


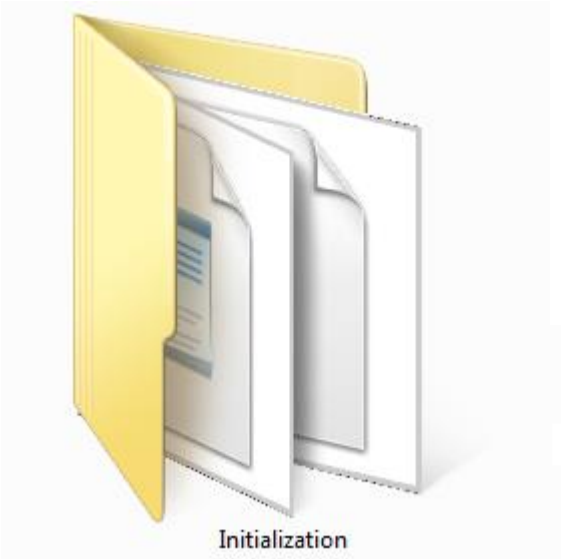


Nome	Data de modificaç...	Tipo	Tamanho
GridDynamics	28/08/2013 14:06	Arquivo F90	58 KB
SemiLagrangian	28/08/2013 14:06	Arquivo F90	85 KB
SpecDynamics	28/08/2013 14:06	Arquivo F90	39 KB
TimeStep	28/08/2013 14:06	Arquivo F90	41 KB

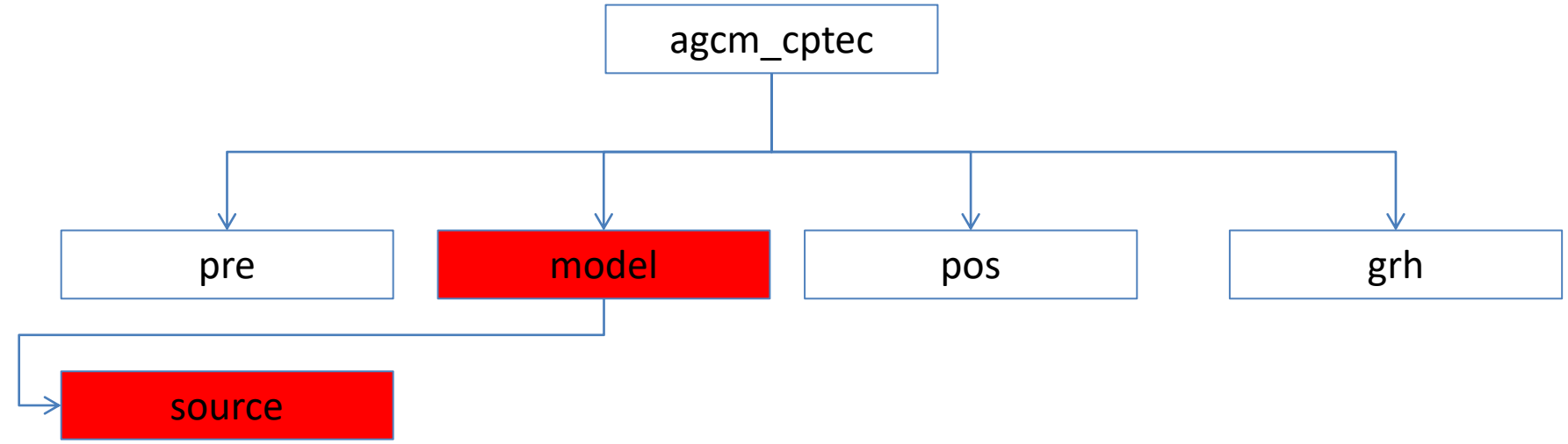


Nome	Data de modificaç...	Tipo	Tamanho
FieldsDynamics	28/08/2013 14:06	Arquivo F90	14 KB
FieldsPhysics	28/08/2013 14:06	Arquivo F90	30 KB

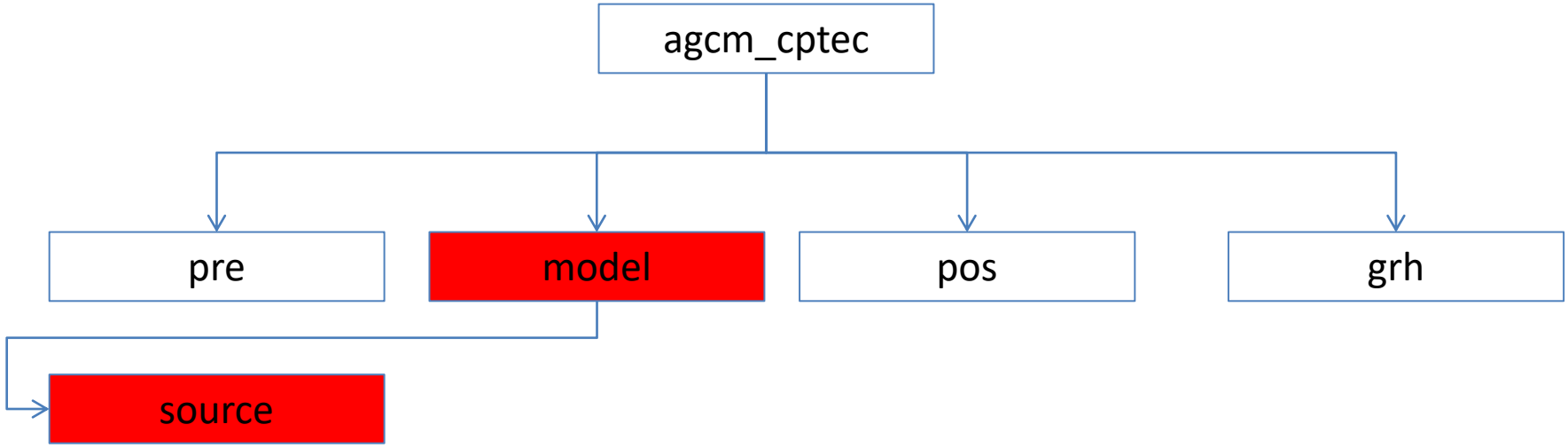




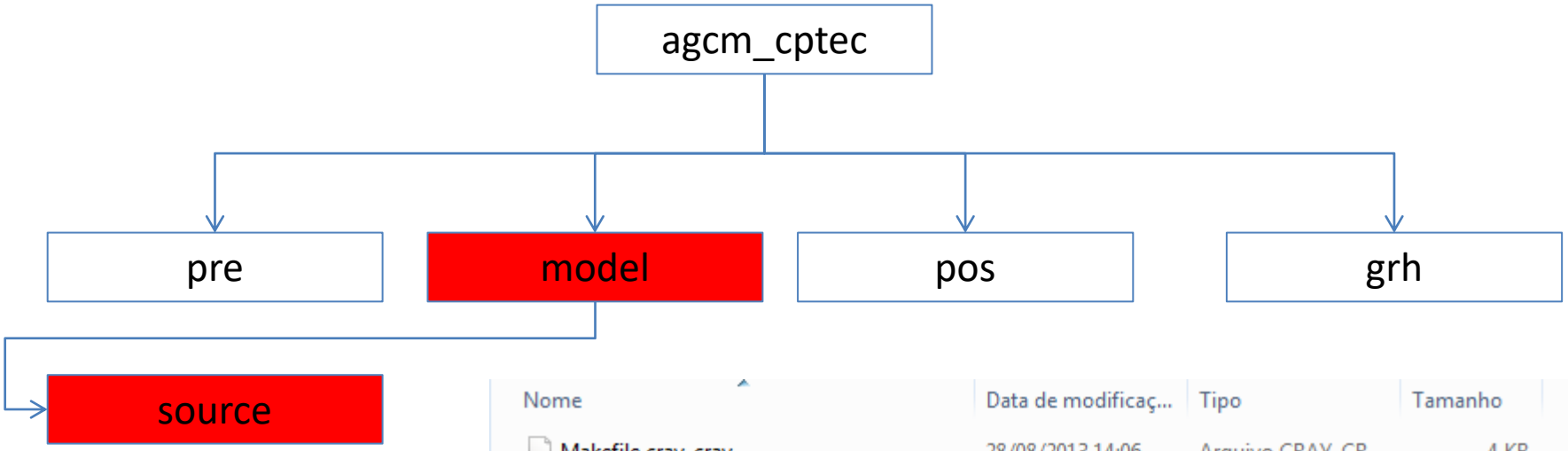
Nome	Data de modificaç...	Tipo	Tamanho
Init	28/08/2013 14:06	Arquivo F90	17 KB
NonLinearNMI	28/08/2013 14:06	Arquivo F90	63 KB
Options	02/09/2013 15:43	Arquivo F90	111 KB



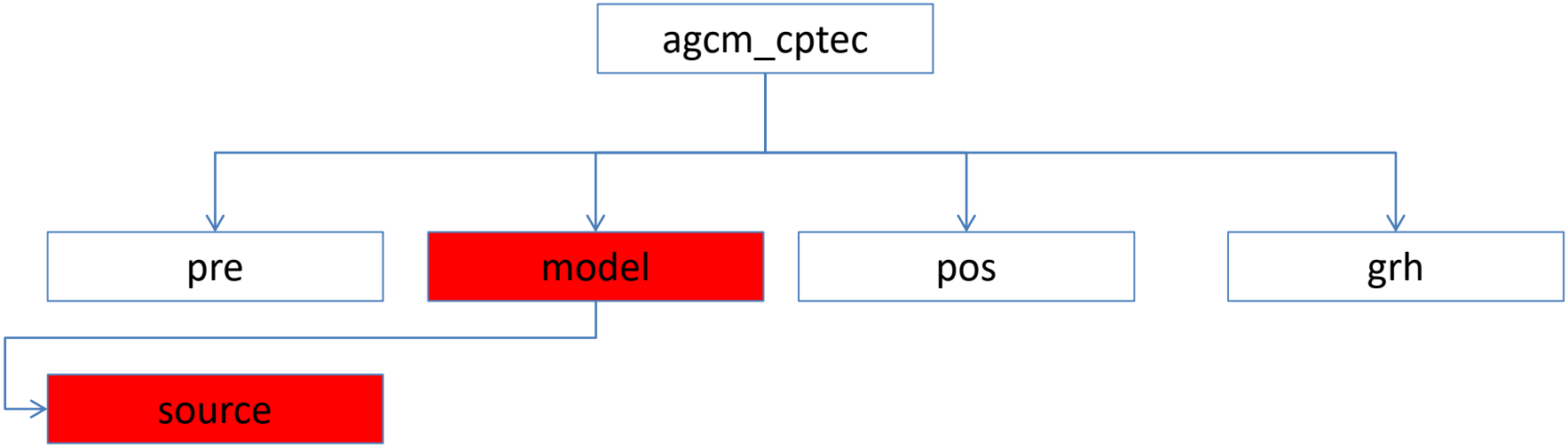
Nome	Data de modificaç...	Tipo	Tamanho
InputOutput	28/08/2013 14:06	Arquivo F90	75 KB
IOLowLevel	28/08/2013 14:06	Arquivo F90	77 KB

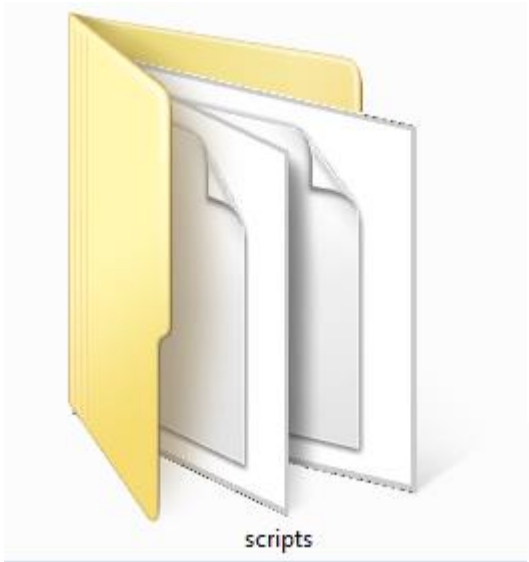


Nome	Data de modificaç...	Tipo	Tamanho
Atmos_Model	28/08/2013 18:06	Arquivo F90	55 KB
Model	28/08/2013 14:06	Arquivo F90	1 KB

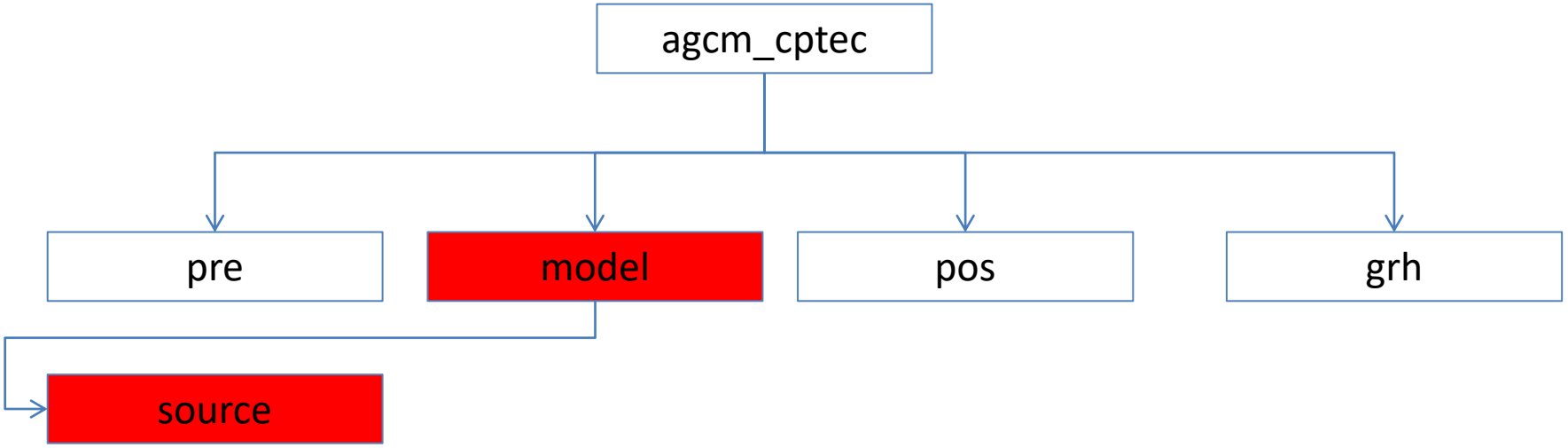


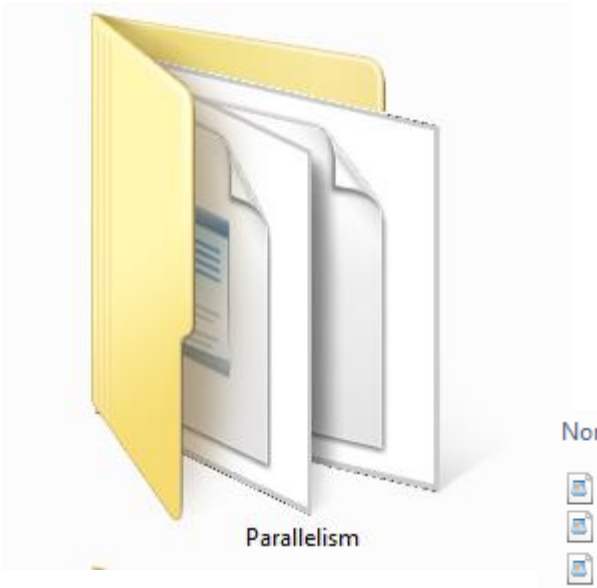
Nome	Data de modificaç...	Tipo	Tamanho
Makefile.cray_cray	28/08/2013 14:06	Arquivo CRAY_CR...	4 KB
Makefile.cray_cray32	28/08/2013 14:06	Arquivo CRAY_CR...	3 KB
Makefile.cray_craydbg	28/08/2013 14:06	Arquivo CRAY_CR...	3 KB
Makefile.cygwin_gnu	05/12/2014 19:50	Arquivo CYGWIN_...	1 KB
Makefile.cygwin_gnu_dbx	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





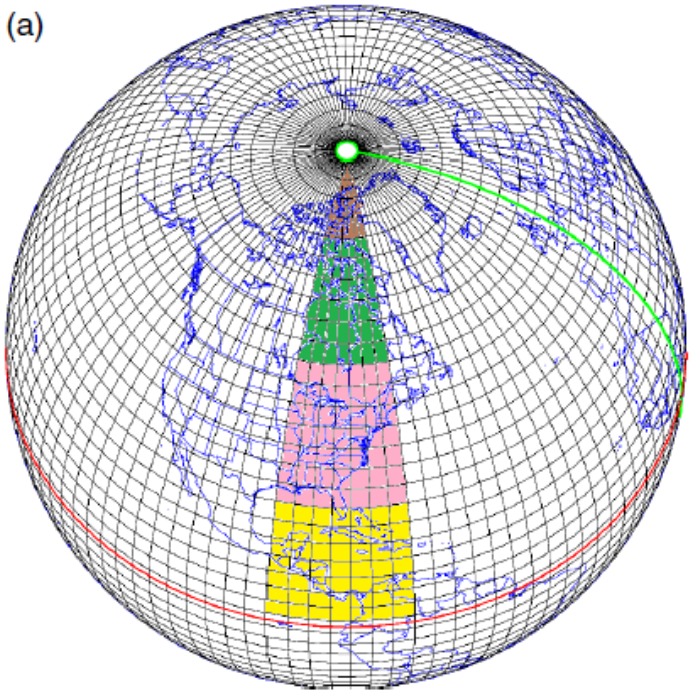
Nome	Data de modificaç...	Tipo	Tamanho
MODELIN	28/08/2013 18:09	Arquivo	16 KB
runModel.XT6	28/08/2013 14:06	Arquivo XT6	15 KB





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

Sizes.f90



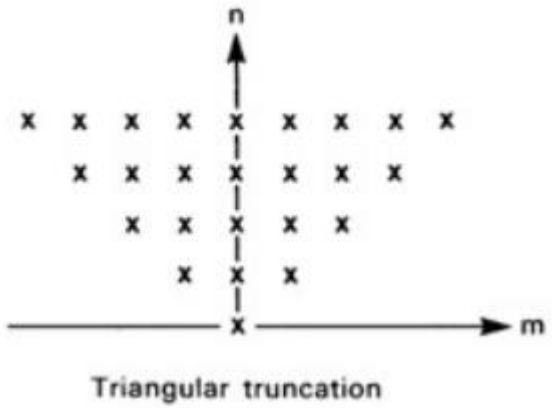
$$F(\lambda,\varphi)=\sum_{m=-\infty}^{\infty}\sum_{n=|m|}^{\infty}F_n^m Y_n^m(\lambda,\varphi),$$

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

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

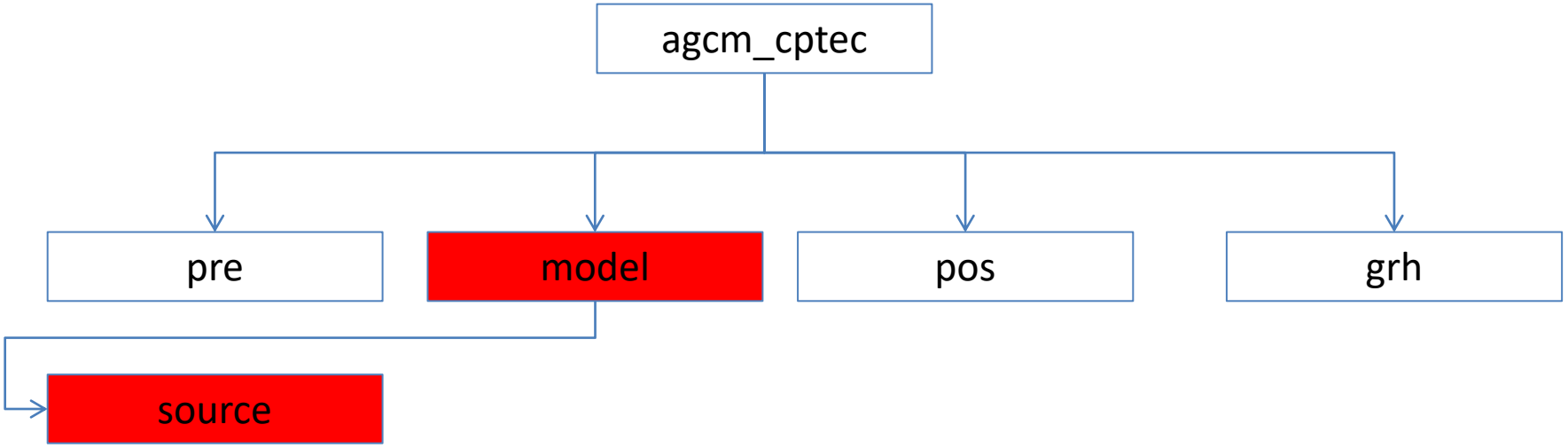
Onde o Hrmonico esferico Y_n^m são as autofunções do laplaciano sobre a esfera

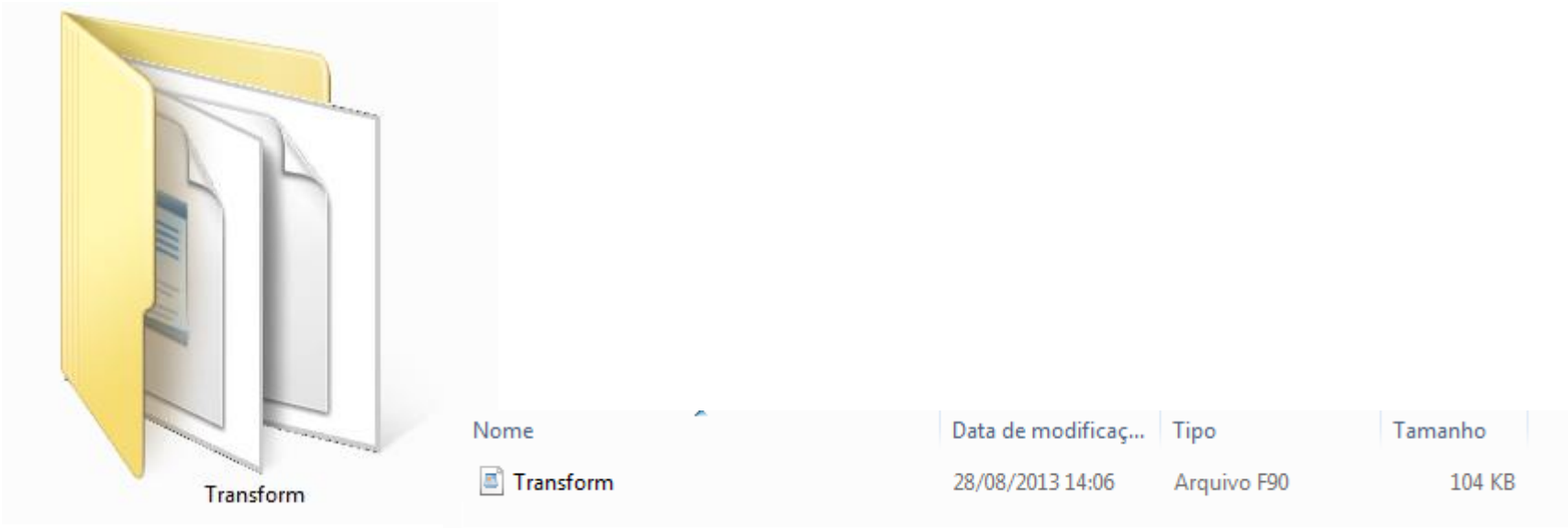
$$\bar{F}=\sum_{m=-M}^{M}\sum_{n=|m|}^{N(m)}F_n^m Y_n^m.$$

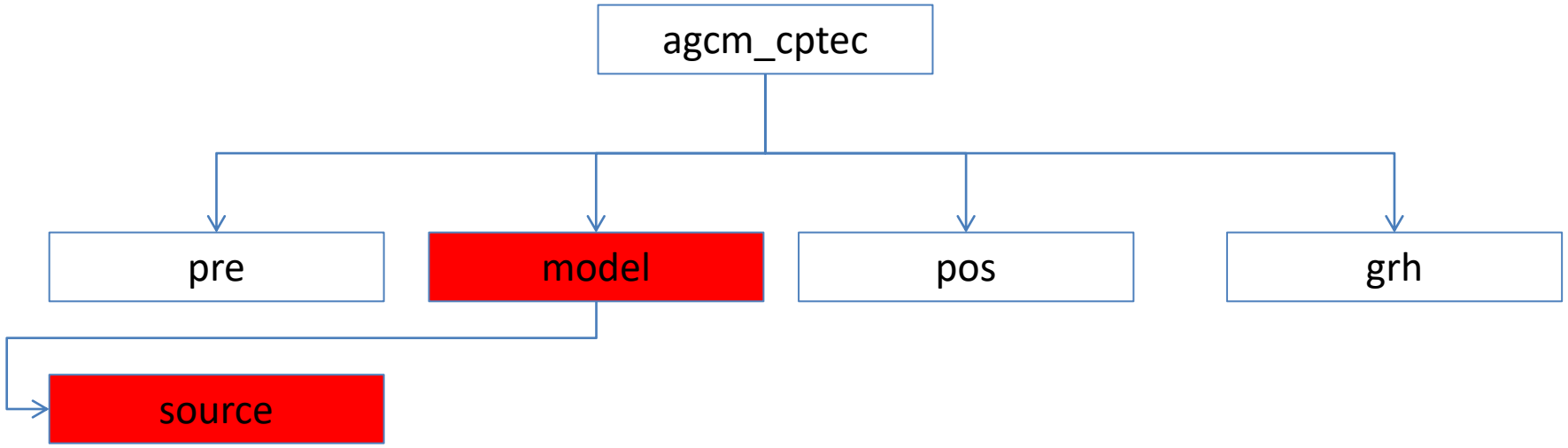


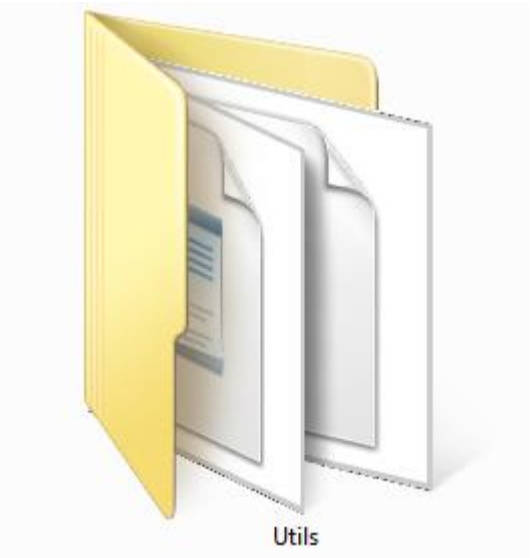
Triangular truncation

Triangular truncation: $N=M$.

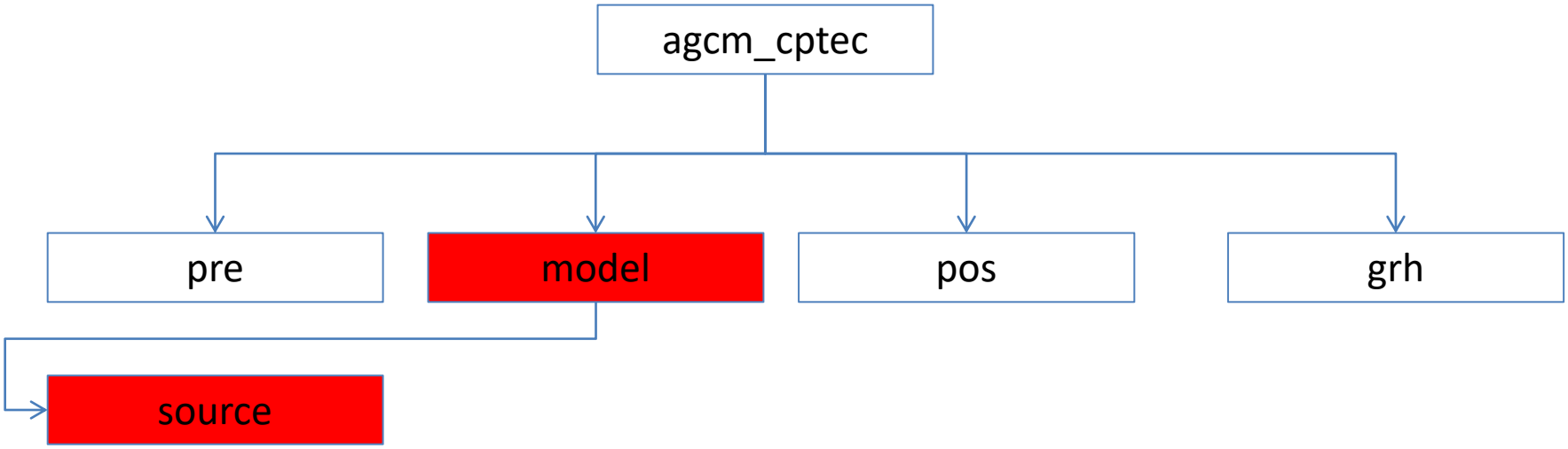

agcm_cptec
pre
model
pos
grh
source

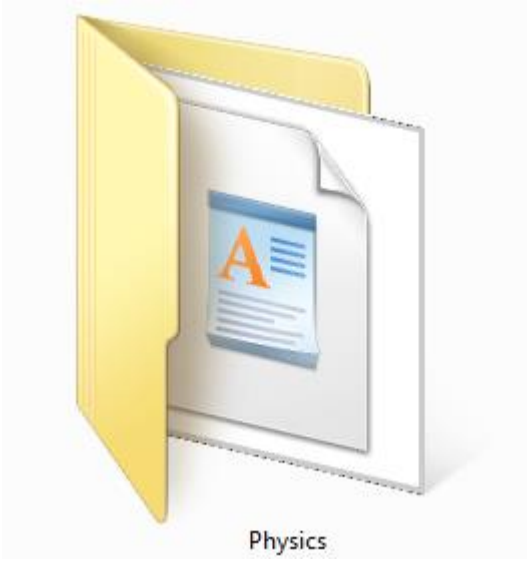

Transform
Nome
Data de modificaç...
Tipo
Tamanho
Transform
28/08/2013 14:06
Arquivo F90
104 KB



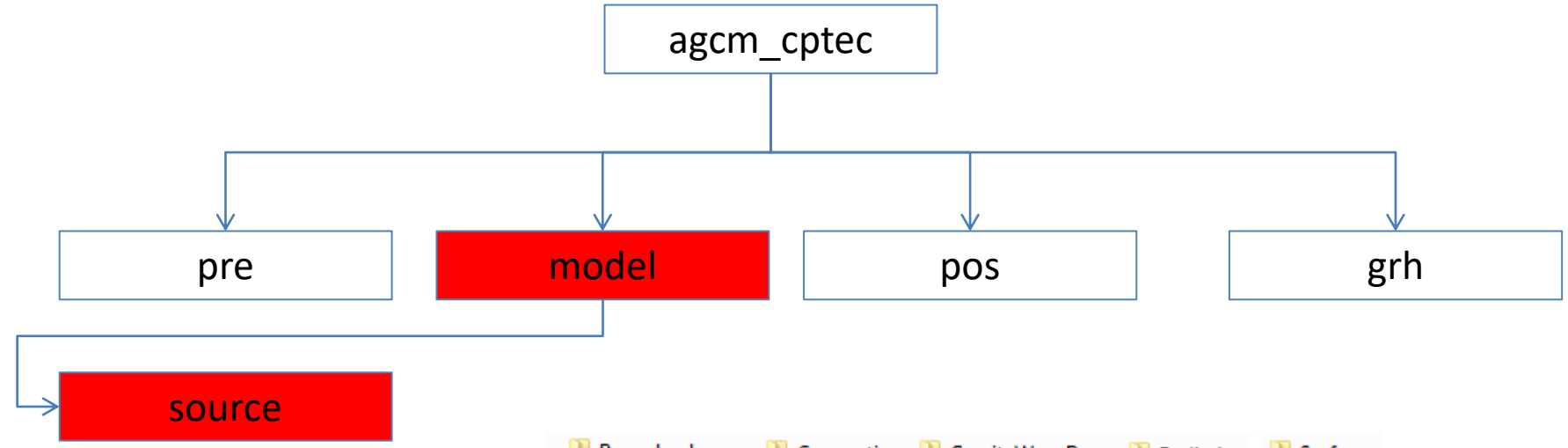


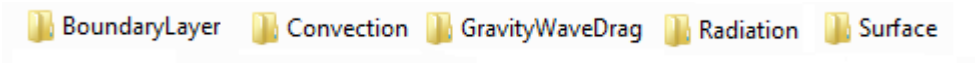
Nome	Data de modificaç...	Tipo	Tamanho
Constants	28/08/2013 14:06	Arquivo F90	9 KB
Constants.f90.in	28/08/2013 14:06	Arquivo IN	8 KB
PhysicalFunctions	28/08/2013 14:06	Arquivo F90	718 KB
Utils	28/08/2013 14:06	Arquivo F90	151 KB
Watches	28/08/2013 14:06	Arquivo F90	10 KB

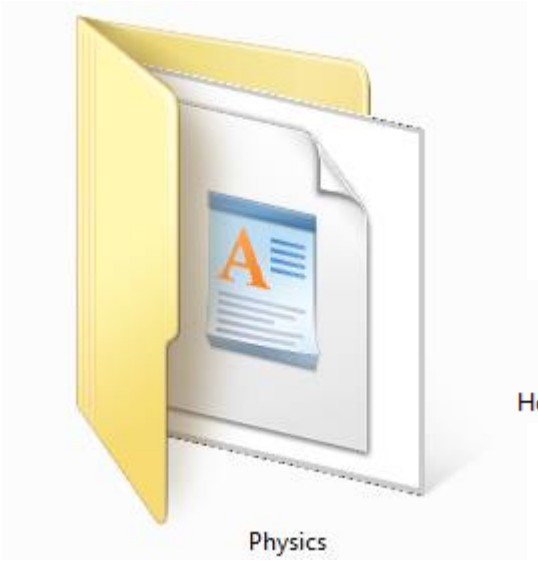


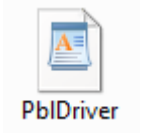


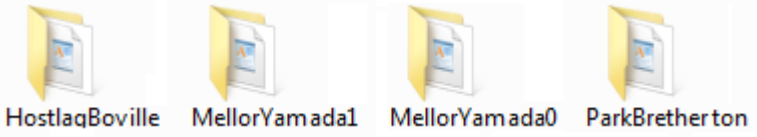
Nome	Data de modificaç...	Tipo	Tamanho
BoundaryLayer	04/09/2013 00:15	Pasta de arquivos	
Convection	04/09/2013 00:17	Pasta de arquivos	
GravityWaveDrag	04/09/2013 00:16	Pasta de arquivos	
Radiation	04/09/2013 00:15	Pasta de arquivos	
Surface	04/09/2013 00:16	Pasta de arquivos	
PhysicsDriver	28/08/2013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

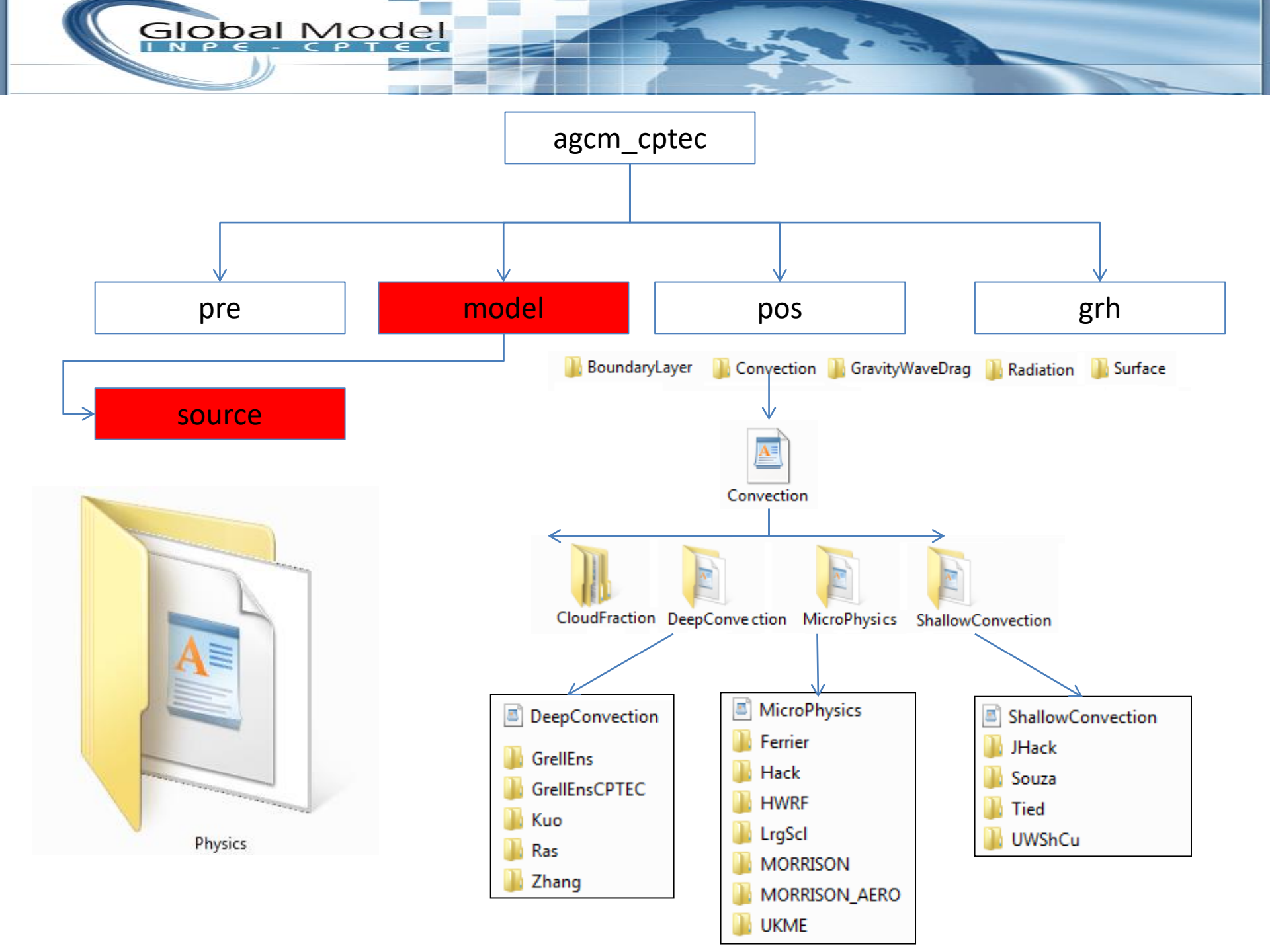

agcm_cptec
pre
model
pos
grh
source

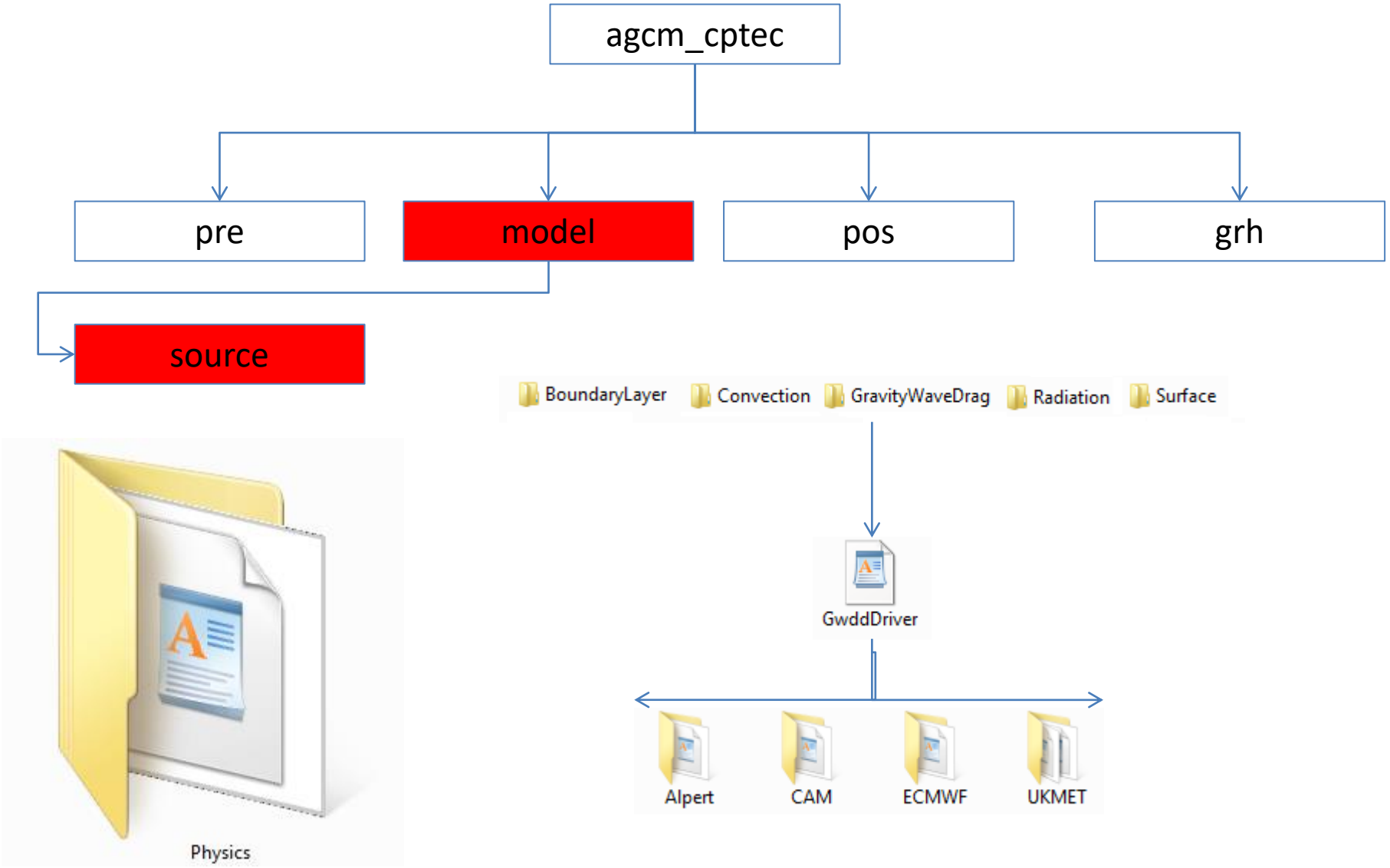

BoundaryLayer
Convection
GravityWaveDrag
Radiation
Surface

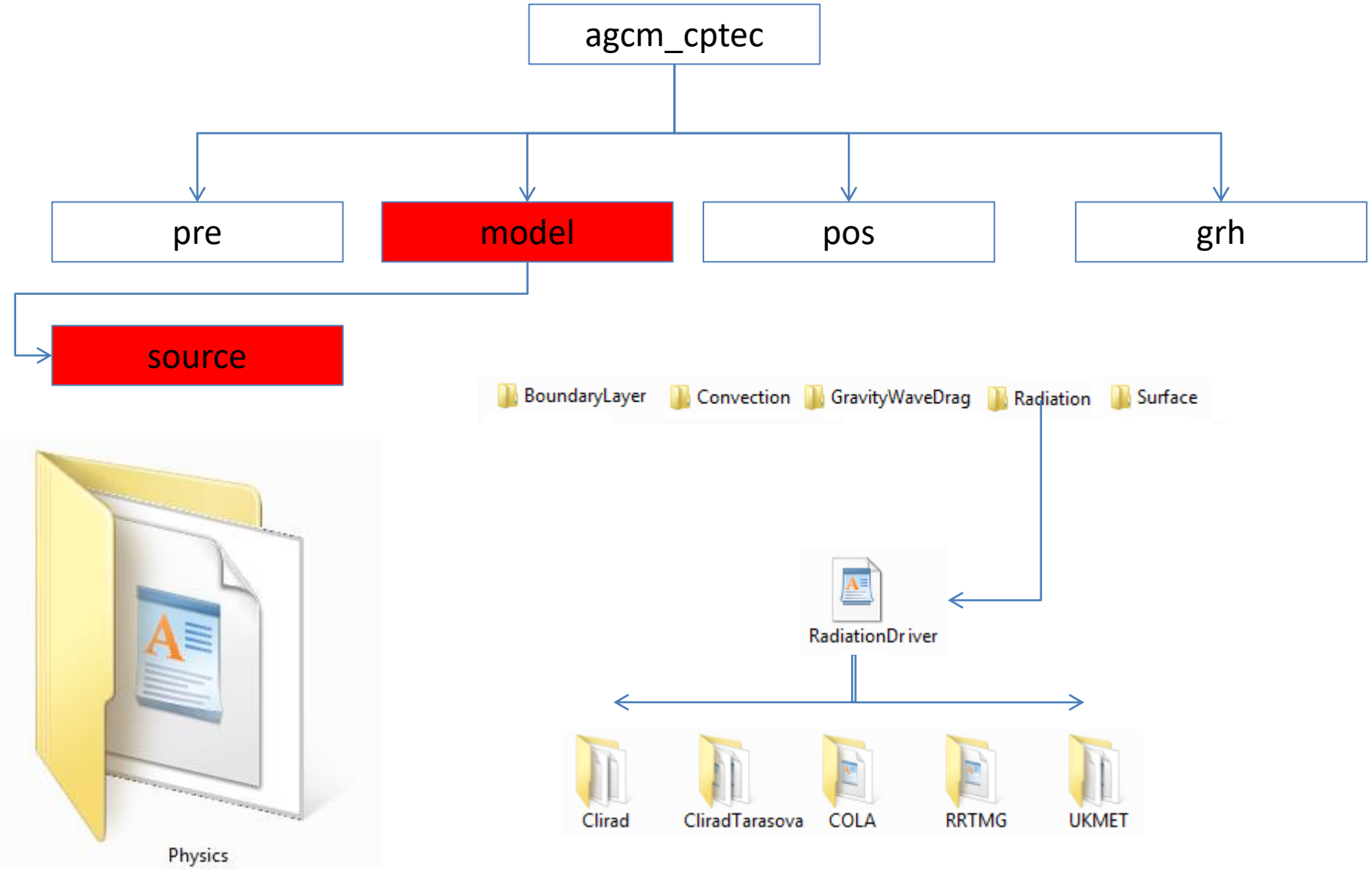

Physics

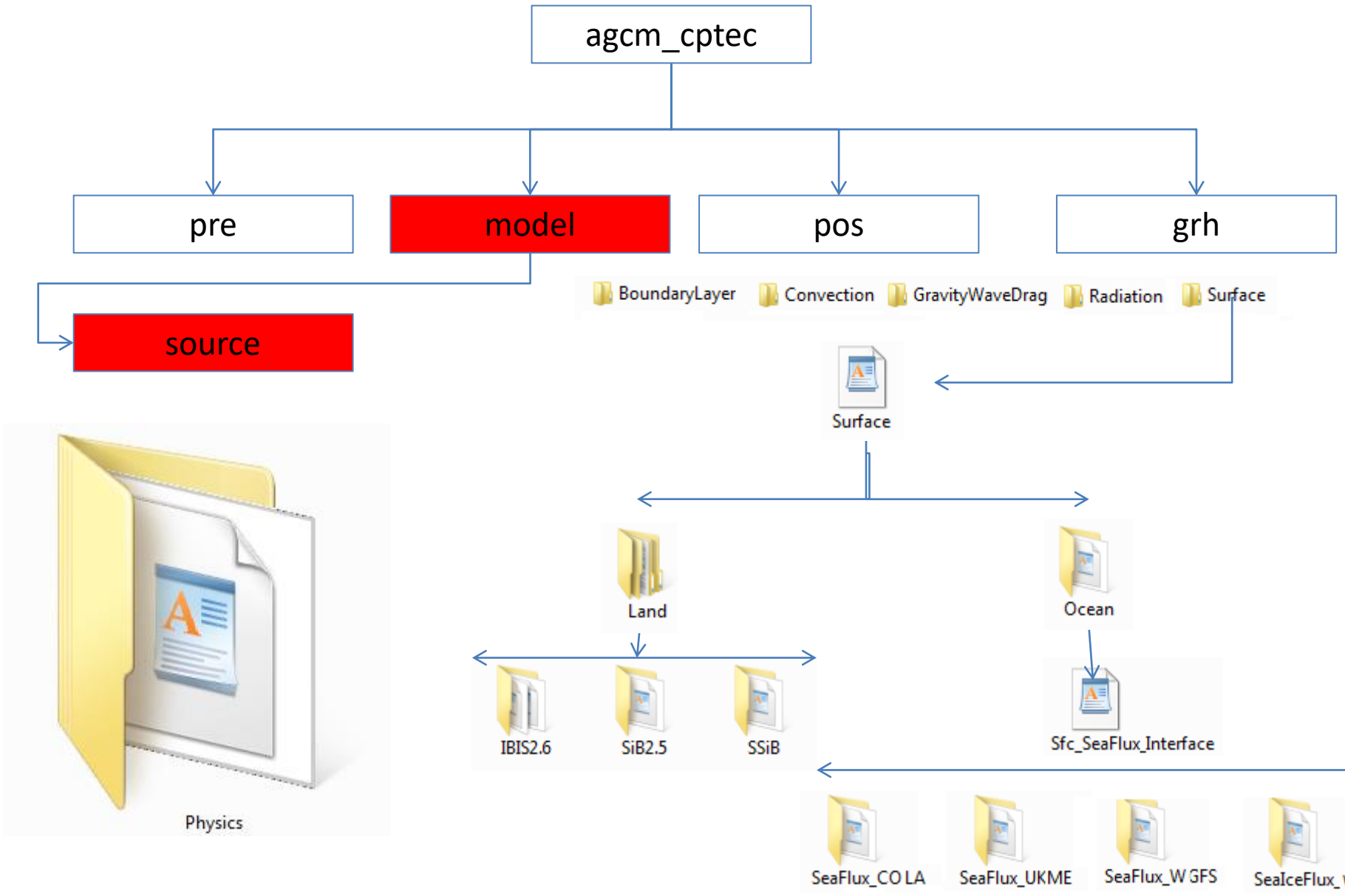

PblDriver


HostlagBoville
MellorYamada1
MellorYamada0
ParkBretherton


agcm_cptec
pre
model
pos
grh
source
BoundaryLayer
Convection
GravityWaveDrag
Radiation
Surface
Convection
CloudFraction
DeepConvection
MicroPhysics
ShallowConvection
Physics
DeepConvection
GrellEns
GrellEnsCPTEC
Kuo
Ras
Zhang
MicroPhysics
Ferrier
Hack
HWRF
LrgScl
MORRISON
MORRISON_AERO
UKME
ShallowConvection
JHack
Souza
Tied
UWShCu


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_COLA
SeaFlux_UKME
SeaFlux_WGFS
SeaIceFlux_WRF
Physics


```
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
```

→

```
CALL TimeStep
```

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

→

```
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
```

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

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

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

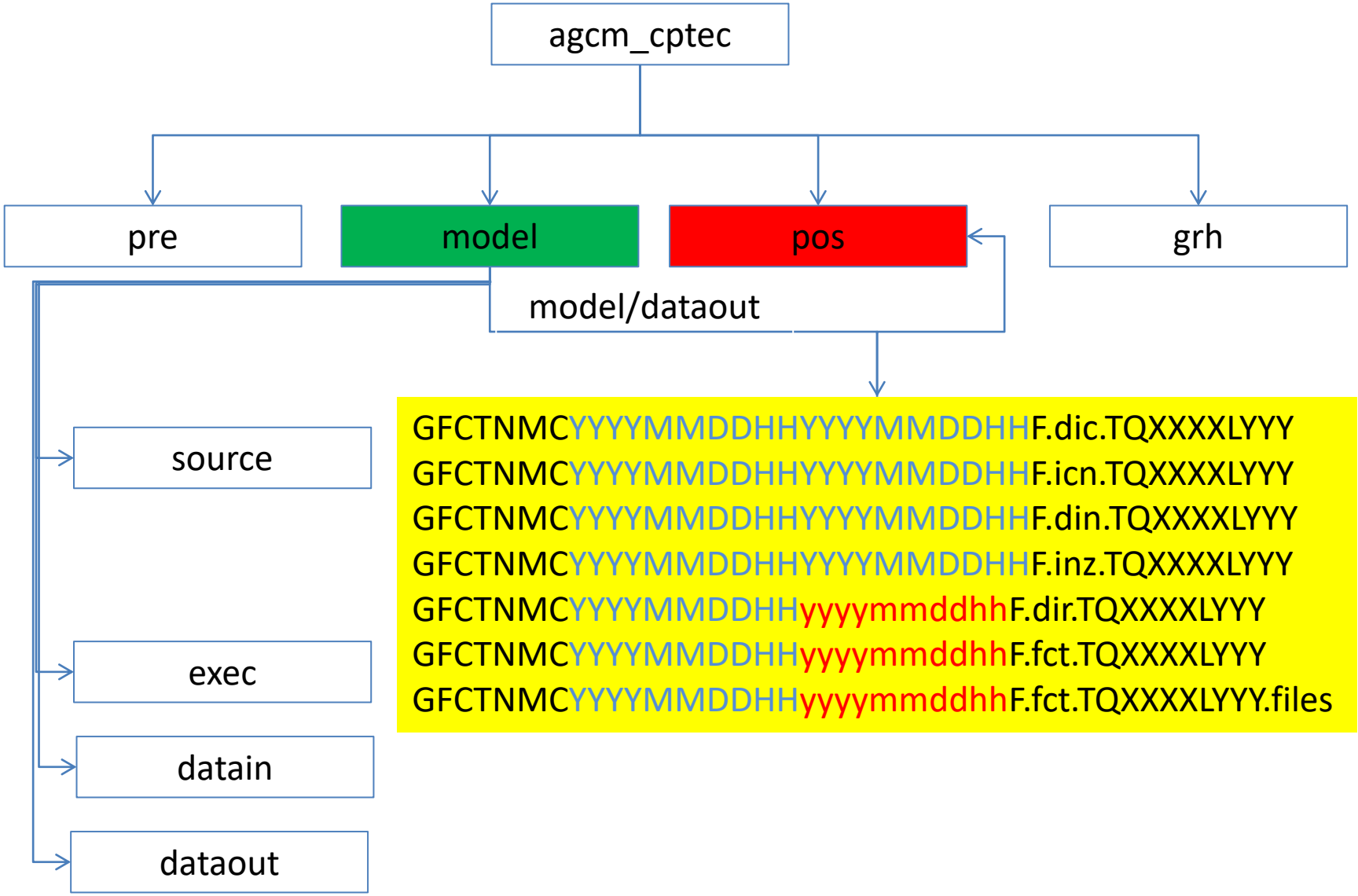
```
CALL BackTrans()
CALL TimeFilterStep2()
CALL grpcomp ()
CALL AddTend()
CALL DirTrans()
```

```
CALL SemiImpl()
```

```
CALL HumidBackTrans
CALL MCGASourcesDriver
CALL HumidPhysics
CALL TimeFilterStep1
CALL HumidDirTrans
```

```
CALL ImplDifu
```

Estrutura do Pos-Processamento
AGCM-CPTEC/INPE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model
pos
grh
model/dataout
source
exec
datain
dataout
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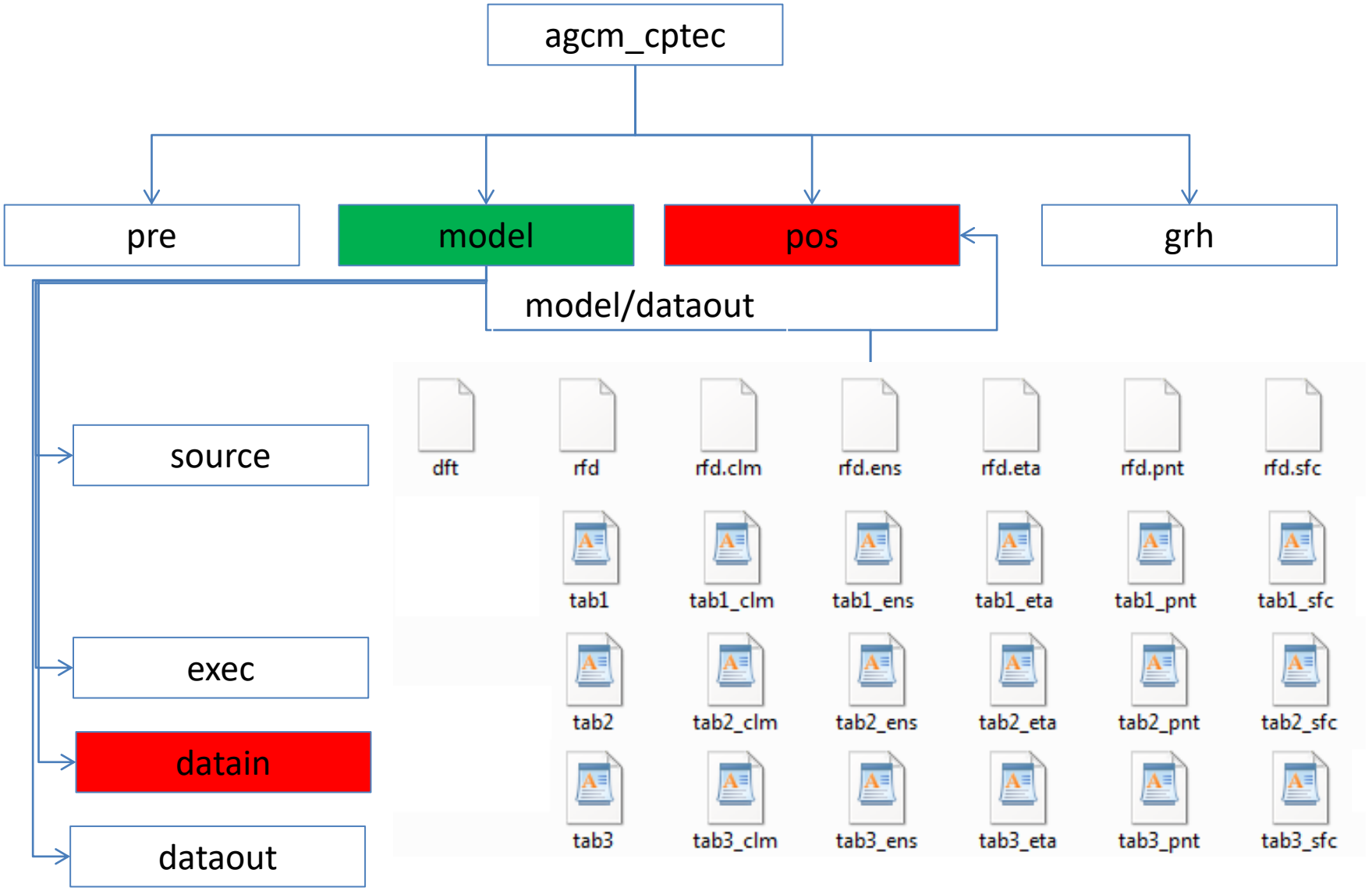
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rfd.ens
rfd.eta
rfd.pnt
rfd.sfc
tab1
tab1_clm
tab1_ens
tab1_eta
tab1_pnt
tab1_sfc
tab2
tab2_clm
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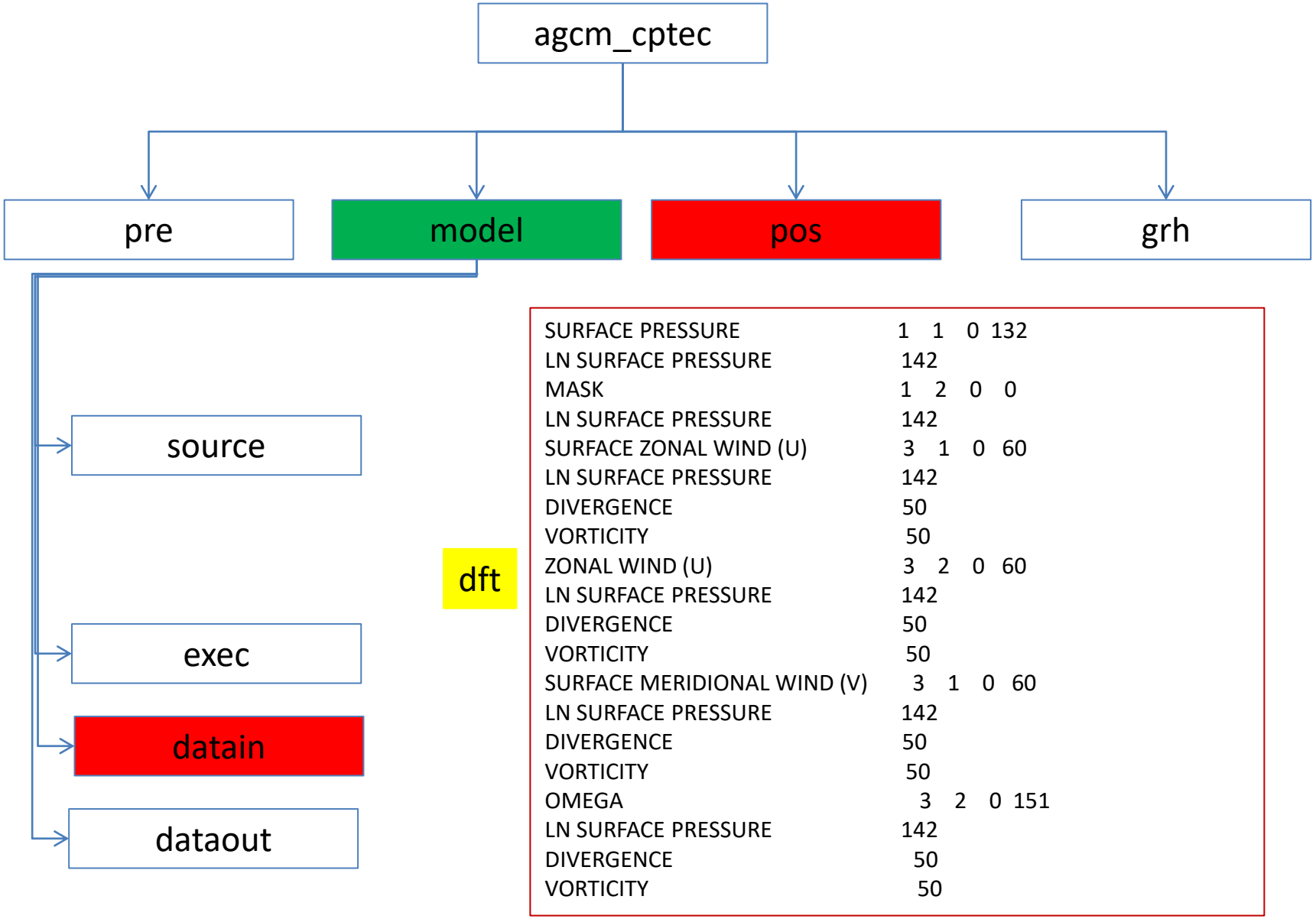
tab3
tab3_clm
tab3_ens
tab3_eta
tab3_pnt
tab3_sfc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pos
grh
source
exec
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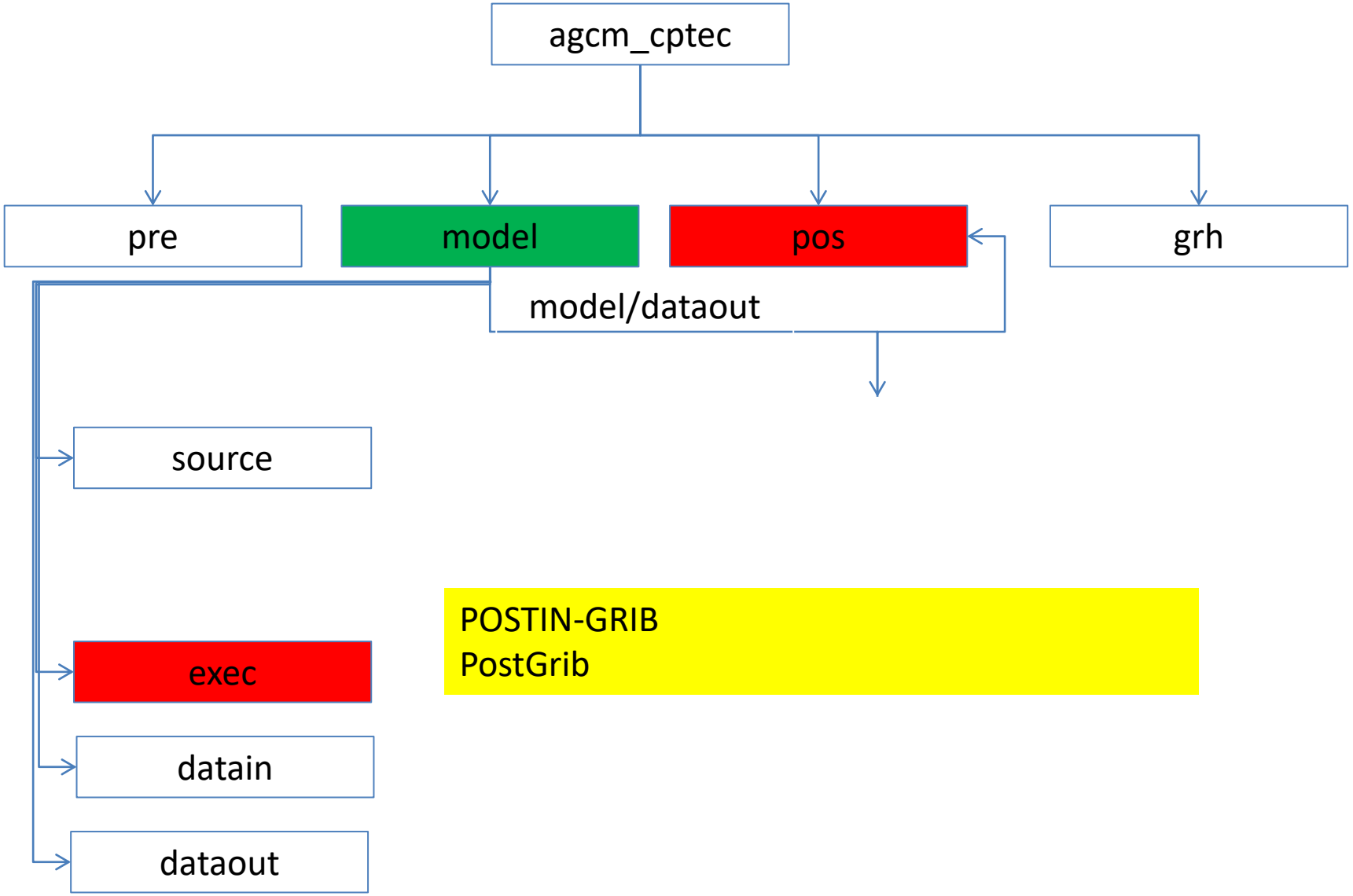
dataout
dft
SURFACE PRESSURE 1 1 0 132
LN SURFACE PRESSURE 142
MASK 1 2 0 0
LN SURFACE PRESSURE 142
SURFACE ZONAL WIND (U) 3 1 0 60
LN SURFACE PRESSURE 142
DIVERGENCE 50
VORTICITY 50
ZONAL WIND (U) 3 2 0 60
LN SURFACE PRESSURE 142
DIVERGENCE 50
VORTICITY 50
SURFACE MERIDIONAL WIND (V) 3 1 0 60
LN SURFACE PRESSURE 142
DIVERGENCE 50
VORTICITY 50
OMEGA 3 2 0 151
LN SURFACE PRESSURE 142
DIVERGENCE 50
VORTICITY 50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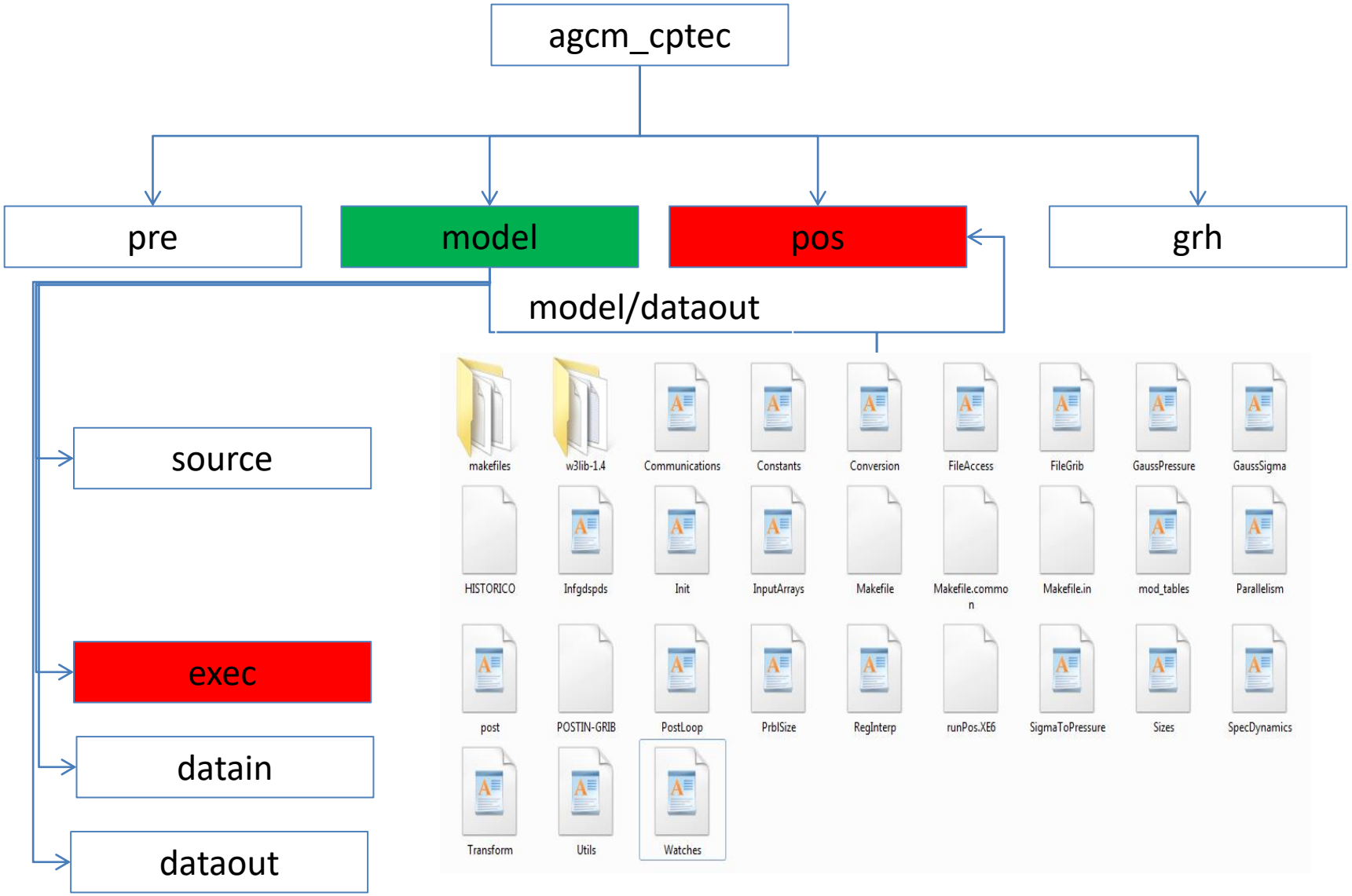
model/dataout
source
exec
datain
dataout
POSTIN-GRIB
PostGrib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grh
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source
exec
datain
dataout
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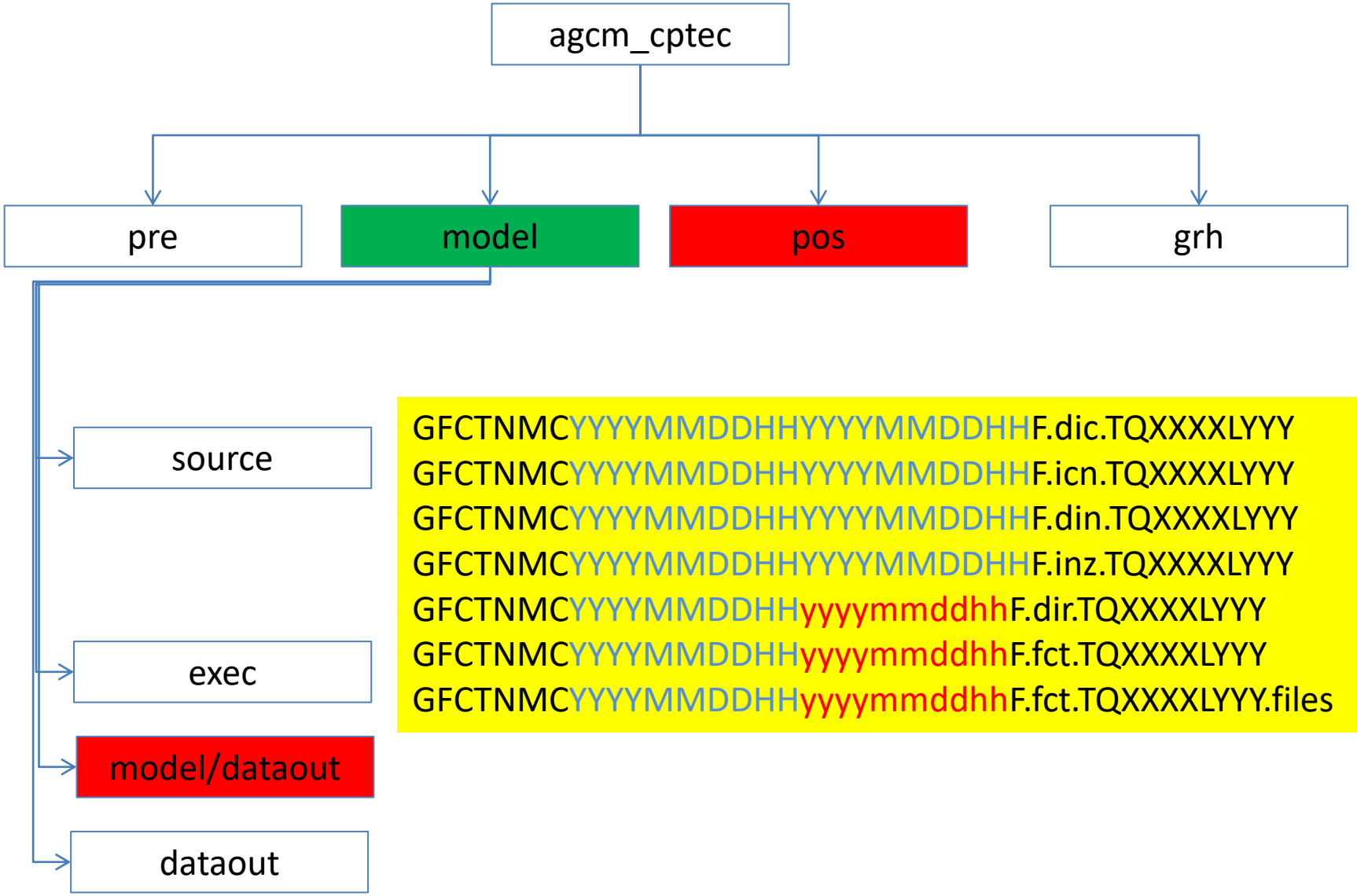
w3lib-1.4
Communications
Constants
Conversion
FileAccess
FileGrib
GaussPressure
GaussSigma
HISTORICO
Infgdspds
Init
InputArrays
Makefile
Makefile.common
Makefile.in
mod_tables
Parallelism
post
POSTIN-GRIB
PostLoop
PrblSize
RegInterp
runPos.XE6
SigmaToPressure
Sizes
SpecDynamics
Transform
Utils
Watches



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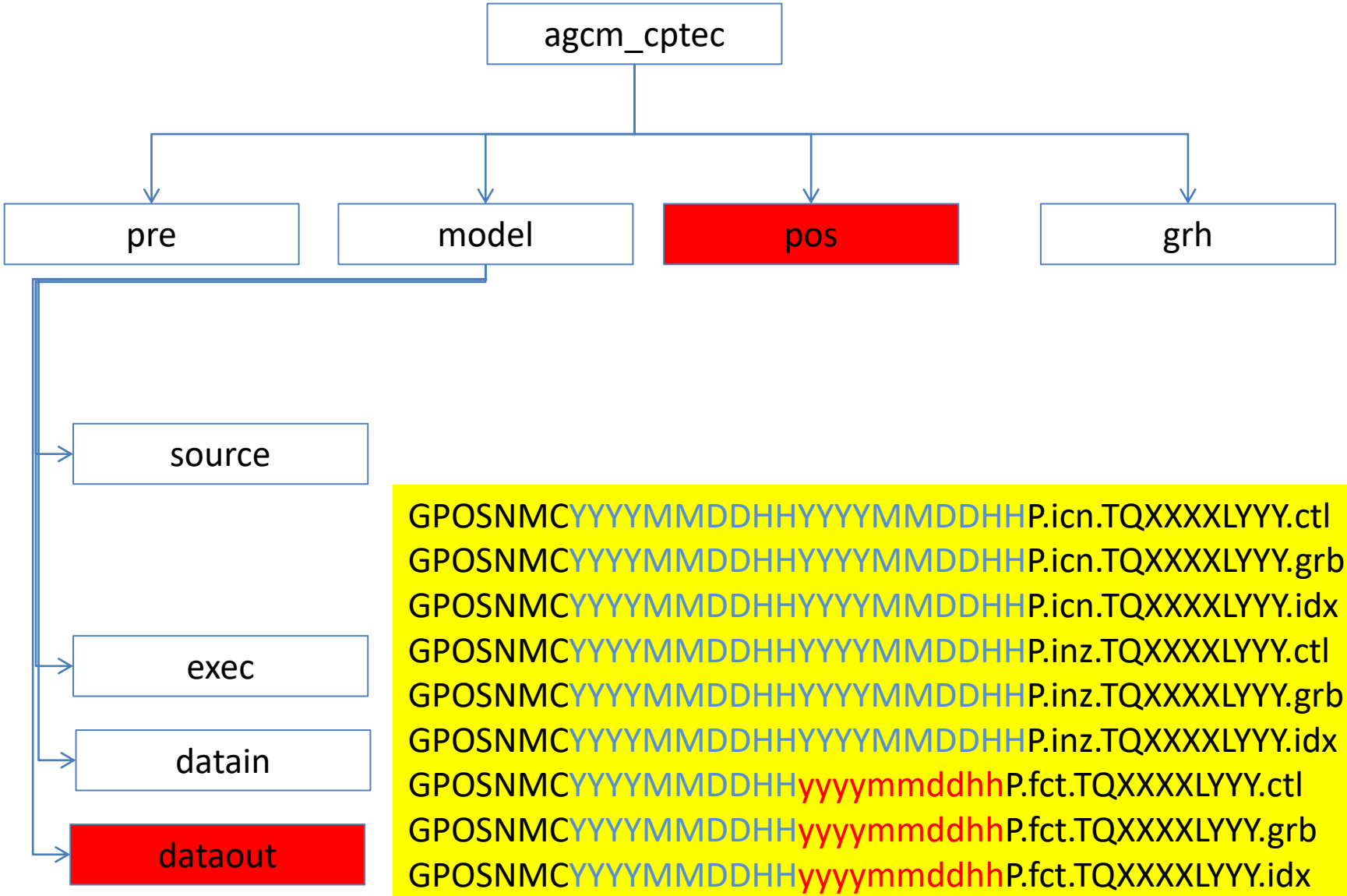

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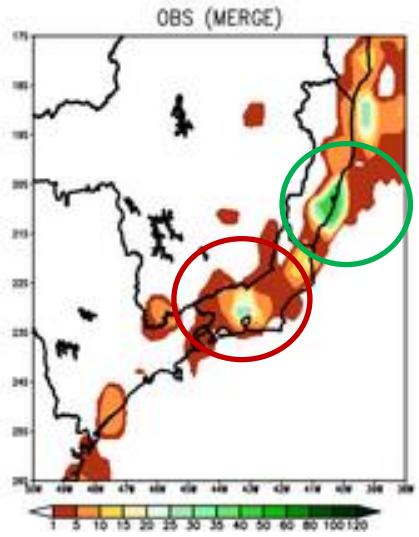
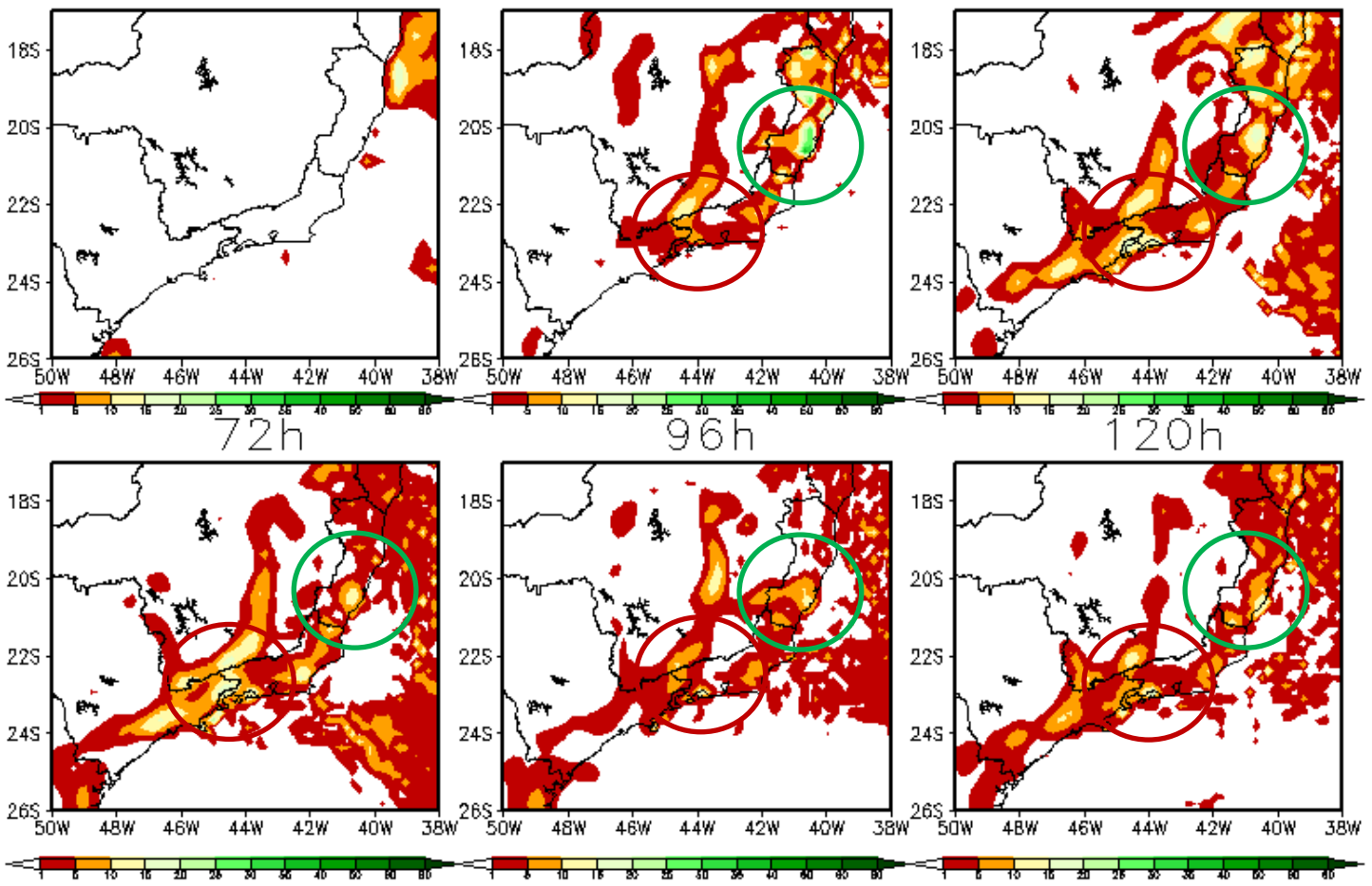
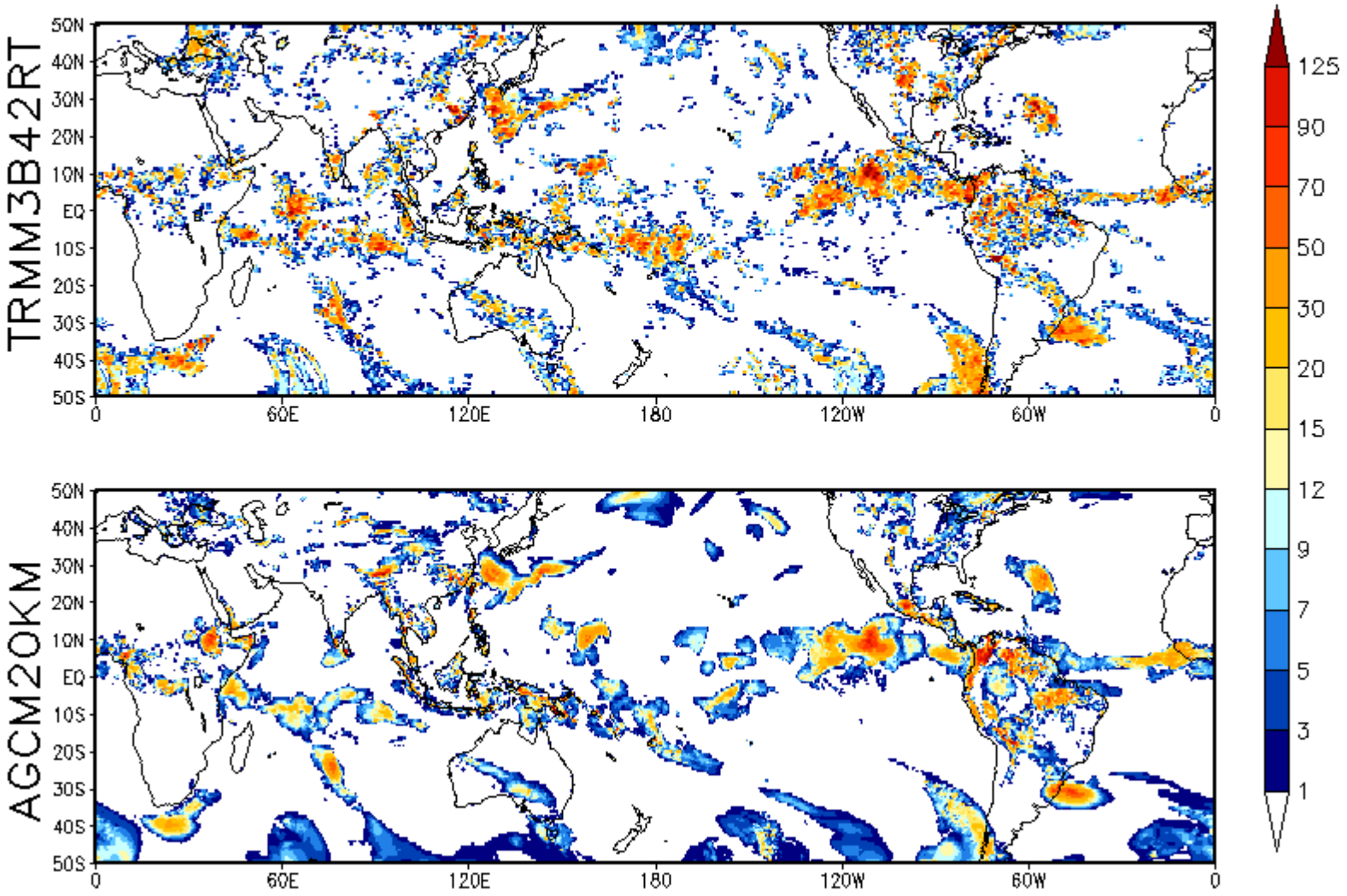
Prec.Acum.(T666L64–20km) para 12z 25/Jun/2015 quita–feira

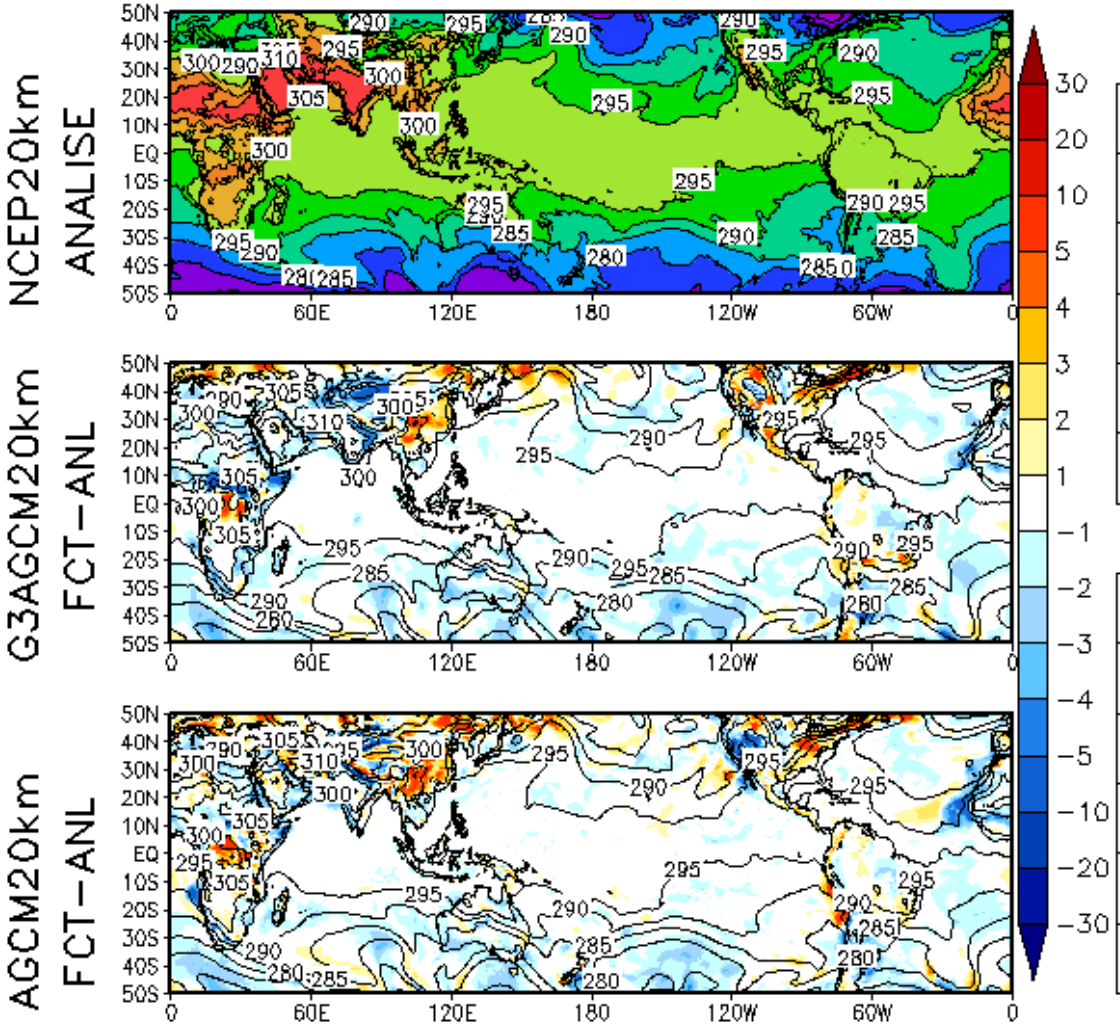




Condicao Inicial 12z27may2015 FCT=24h
Precipitacao 12z27may2015–12z28may2015



Condicao Inicial 12z30may2015 FCT=24h
VirtualTemperature 12z31may2015



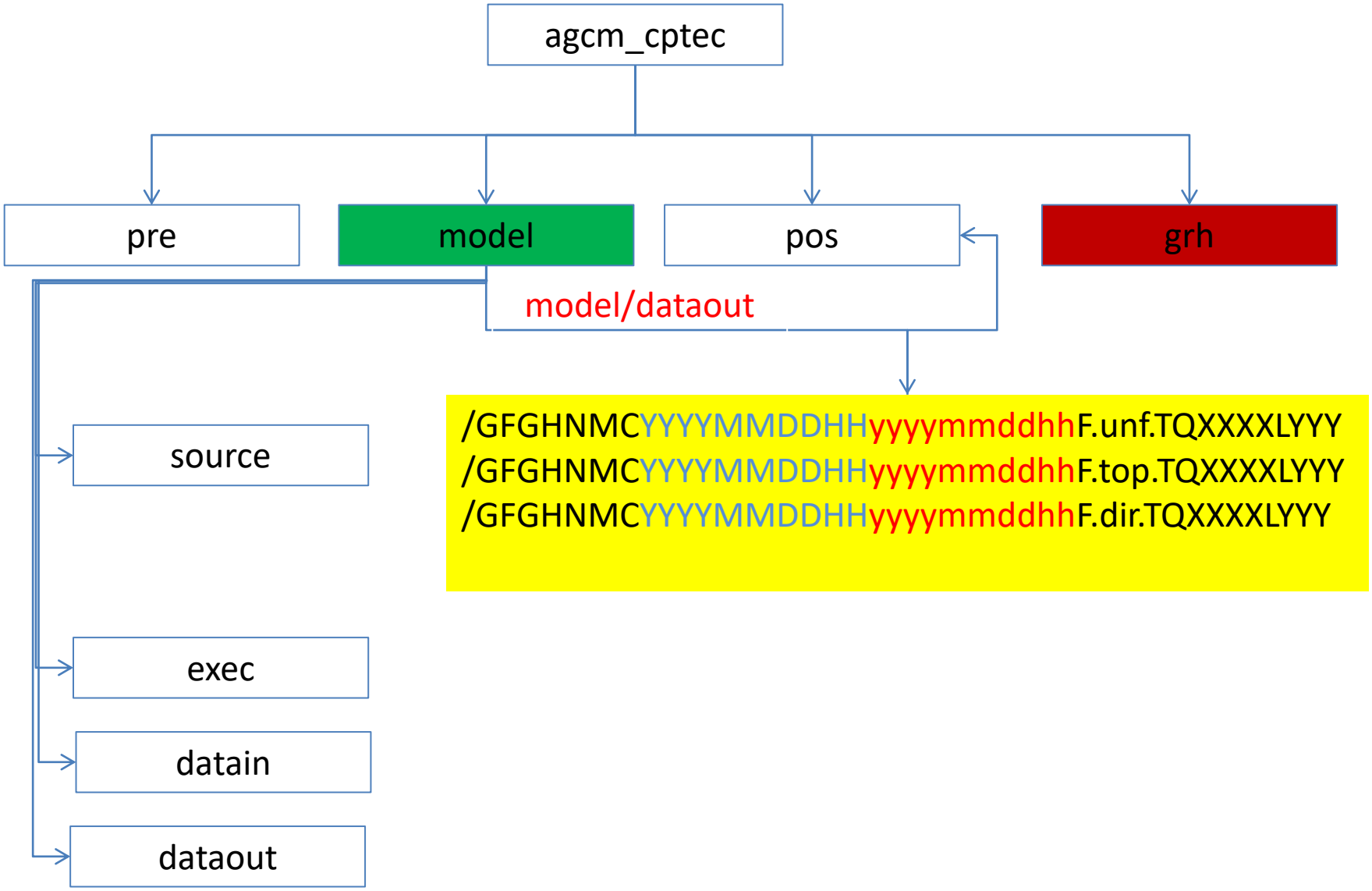
G3AGCM20KM

VAR	BIAS	RMSE	MSE	R
PREC	0.22	9.75	95.07	0.37
PSNM	0.19	1.48	2.20	0.98
TEMP	-0.64	1.54	2.36	0.99
UMES	-0.18	0.06	0.00	0.92
ZGEO	-9.26	13.40	179.51	0.98

AGCM20KM

VAR	BIAS	RMSE	MSE	R
PREC	-0.43	9.53	90.85	0.35
PSNM	0.26	1.50	2.25	0.98
TEMP	-0.51	1.64	2.69	0.98
UMES	-0.08	0.06	0.00	0.91
ZGEO	-12.77	15.71	246.90	0.98

Estrutura do Pos-GridHistory
AGCM-CPTEC/INPE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grh
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dataout
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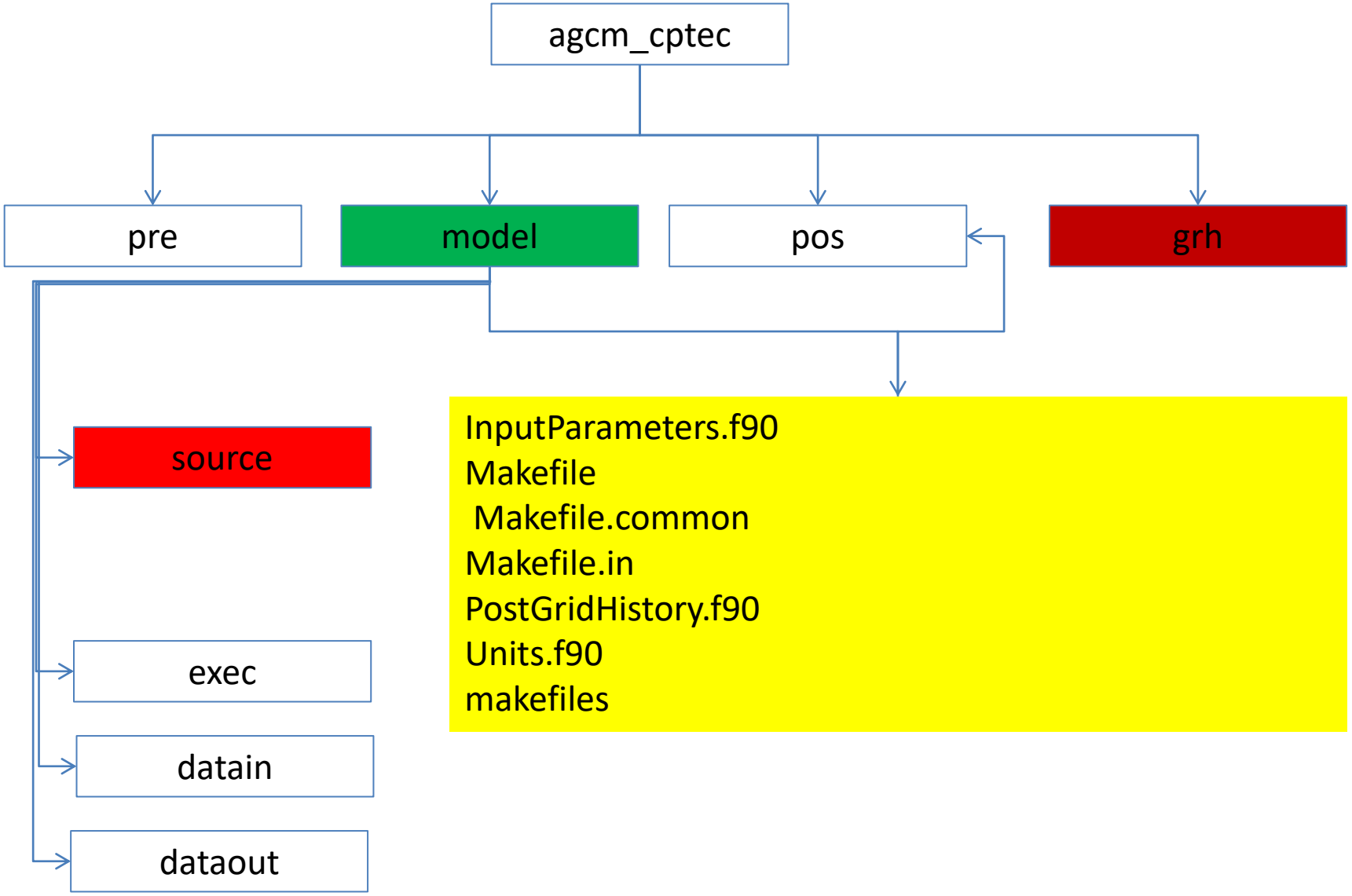
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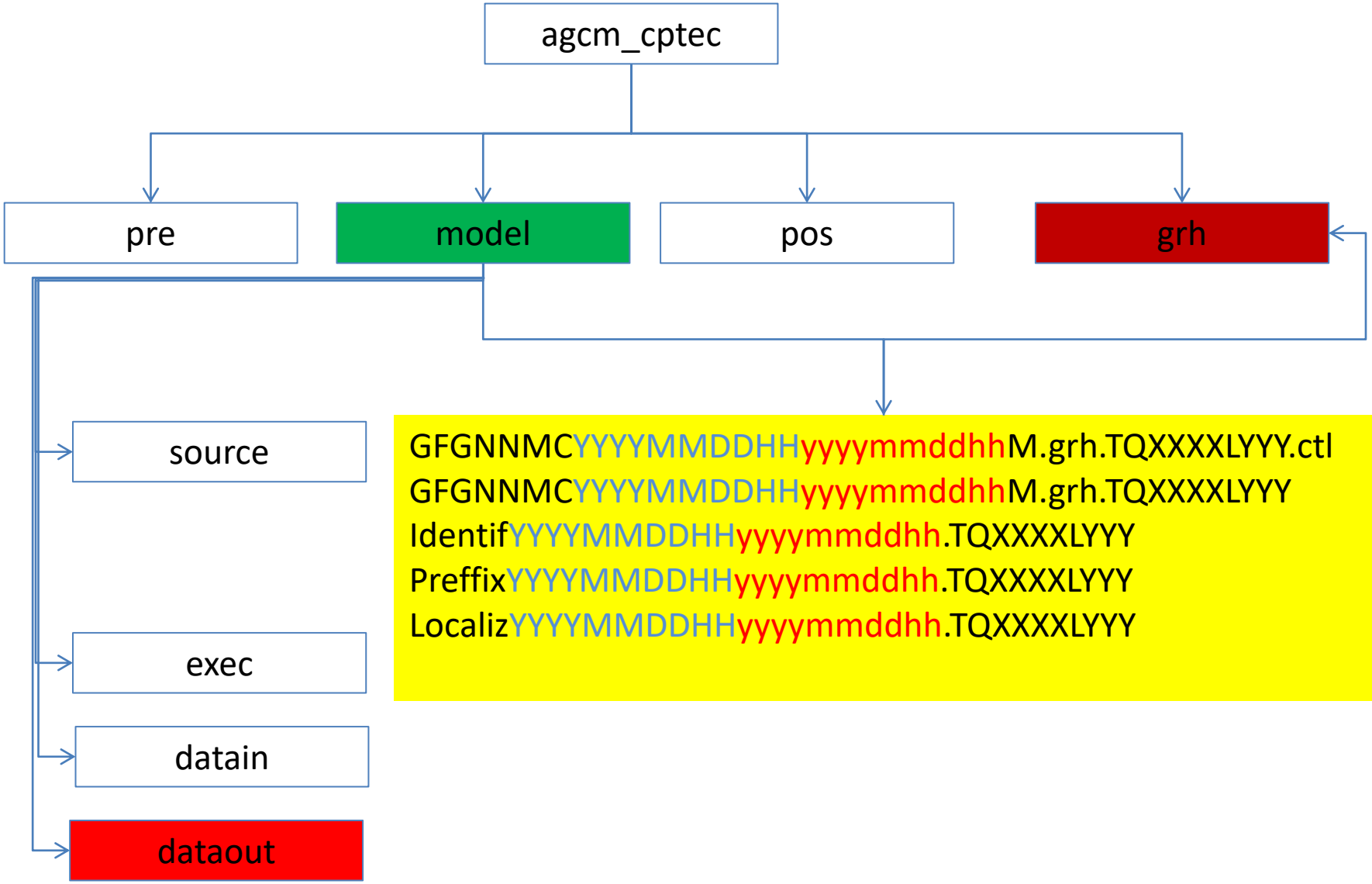
Makefile.common
Makefile.in
PostGridHistory.f90
Units.f90
makefiles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PROBABILITY PLUMES – GLOBAL ENSEMBLE FORECAST – TQ0126L028
CPTEC: 047:49W–15:26S BRASILIA (DF)
29JUN2015 00Z: Greenwhich Meridian Time: Vertical Dotted Line: Midnight