

# Paths dataset

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▼ Class	Simulador
🕒 Created	@Mar 25, 2021 11:21 AM
🔗 Materials	
☰ Property	
▼ Type	

## ▼ Mistral

- Main: `cd /work/bb1036/b381362/dataset`
- Main: `cd /work/bb1036/b381362/dataset_old`

## ▼ Creation of the dataset

- Dom3= 156m
1. `cdo select,name=cli,clw,clc,hus,qr,qs,pres,ta 3d_coarse_day_II_DOM03_ML_20130502T090000Z.nc variables3D-rttov.nc`
  2. `cdo select,name=t_s,u_10m,v_10m,ps 2d_surface_day_DOM03_ML_20130502T090000Z.nc variables2D-rttov.nc`
  3. `/opt/netcdf/current/bin/ncdump -h /poorgafile1/climate/hdcp2/GRID_default_3d_fine_DOM03_ML.nc`  
(tomography=orography)
    1. `cdo select,name=z_ifc,z_mc,topography_c /poorgafile1/climate/hdcp2/GRID_default_3d_fine_DOM03_ML.nc /home/jvillarreal/GRID_DOM3.nc`  
???? no funciona probar con lo siguiente  
[https://nicojourdain.github.io/students\\_dir/students\\_netcdf\\_nco/](https://nicojourdain.github.io/students_dir/students_netcdf_nco/)
  4. `$ /opt/netcdf/current/bin/ncdump -h /poorgafile1/climate/dipu/forces/analysis/GRID/hdcp2_de_default_nest_R0156m.nc`
    1. `cdo select,name=cell_sea_land_mask /poorgafile1/climate/dipu/forces/analysis/GRID/hdcp2_de_default_nest_R0156m.nc /home/jvillarreal/grid_R0156m.nc`
    2. `/opt/netcdf/current/bin/ncdump -h grid_R0156m.nc`
  5. `module load nco`
  6. debo eliminar una dimension
    - `ncwa -a time,height_2 variables2D-rttov.nc 2D.nc`
    - `ncwa -a time variables3D-rttov.nc 3D.nc`
    - `ncks -O -x -v Band,my_plottable_ariable new_misr.nc mytest.nc %noprobe`
  7. Copy some files to GRID 2D de serve\_leipzig to Mistral
    1. `scp hdcp2_de_default_nest_R0156m.nc b381362@mistral.dkrz.de:/work/bb1036/b381362/dataset`

2. scp myGridDef b381362@mistral.dkrz.de:/work/bb1036/b381362/dataset

3. cdo -P 8 remapnn,myGridDef -  
setgrid,/work/bb1036/b381362/dataset/hdcp2\_de\_default\_nest\_R0156m.nc -  
selname,v\_10m,u\_10m,t\_s /work/bb1036/b381362/dataset/2D.nc  
/work/bb1036/b381362/dataset/2D\_grid.nc

▼ tuve problemas con el GRID x la memoria creo allocation cannot allocate memory luego chequear lo hice en el server interno

1. (phd) jvillarreal@poorga1:~\$ sftp b381362@mistral.dkrz.de b381362@mistral.dkrz.de's  
password:

Connected to b381362@mistral.dkrz.de.  
sftp> cd /work/bb1036/b381362/dataset  
sftp> get 2D.nc

2. (base) jvillarreal@poorga1:~\$ cdo -P 8 remapnn,myGridDef -  
setgrid,/poorgafile1/climate/dipu/forces/analysis/GRID/hdcp2\_de\_default\_nest\_R0156m.nc  
-selname,v\_10m,u\_10m,t\_s /home/jvillarreal/2D.nc /home/jvillarreal/2D\_grid.nc

3. sftp> put 2D\_grid.nc (en el otro terminal, abri 2)

4. ncdump -h 2D\_grid.nc

8. cdo -O -f nc merge 3D.nc 2D\_grid.nc input1\_rttov.nc  
(<https://code.mpimet.mpg.de/boards/2/topics/5239>)

9. Faltan las otras variables height, half, landmask, orography, ps

#### ▼ CDO

- <https://code.mpimet.mpg.de/projects/cdo/wiki/Tutorial>
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#### ▼ commands

- ncdump -v time variable2D\_1step\_rttov.nc
- ncdump: <https://www.unidata.ucar.edu/software/netcdf/workshops/2011/utilities/NcdumpExamples.html>

#### ▼ Variables que faltan:

- heigh\_half  
landmask =  
orography =  
heigh ---(level, lat,lon) /// I have height(height)

to do check the size of all the eliminar timetep and use solo un archivo de cada variable tbn heigh me dijo q era el mismo valor en long lang peor ja dijo q use presion y densidad

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