Paths dataset

CM	☐
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_ll_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 (en poorgafile no hay esas)
3. /opt/netcdf/current/bin/ncdump -h /poorgafile1/climate/hdcp2/GRID_default_3d_fine_DOM03_ML.nc (tomopraphy=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/ esto no funciono pero lo siguiente si:
        1. cdo -P 8 remapnn,myGridDef -setgrid,/poorgafile1/climate/dipu/forces/analysis/GRID/hdcp2_de_default_nest_R0156m.nc -selname,z_ifc,z_mc,topography_c /poorgafile1/climate/hdcp2/GRID_default_3d_fine_DOM03_ML.nc /home/jvillarreal/GRID_DOM3.nc
    2. copiar al MISTRAL ——me equivoque en el 1,2 no se debe eliminar el hegith, heigth_2 lo que hice en el notebook notebook_input_rttov.ipynb crear a new file con lo que yo queria GRID_DOM3_new.nc https://unidata.github.io/python-training/workshop/Bonus/netcdf-writing/
        1. scp /poorgafile1/climate/hdcp2/GRID_default_3d_fine_DOM03_ML.nc b381362@mistral.dkrz.de:/work/bb1036/b381362/dataset
        2. cdo -P 8 remapnn,myGridDef -setgrid,/work/bb1036/b381362/dataset/hdcp2_de_default_nest_R0156m.nc -selname,z_ifc,z_mc,topography_c /work/bb1036/b381362/dataset/GRID_default_3d_fine_DOM03_ML.nc

/work/bb1036/b381362/dataset/GRID_DOM3.nc ——esto ya me da solo un tiempo ya no debo eliminar el timestep no funciono lo hice en Poorgafile1

3. ncks -d height,2.,151. GRID_DOM3.nc GRID_DOM3_cut.nc %height: 2-151, height_2: 1 -150 ///lo malo es q los valores estan al revez comparado con lo q tengo de guia tes-2 luego cambiar !!!!!
4. ncap2 -s "heigh=height-1" GRID_DOM3_cut.nc mmmc no funciona
5. https://stackoverflow.com/questions/62723241/how-to-add-new-variables-for-an-xarray-dataset-using-groupby-and-apply rotar
6. ncrename -h -O -v old_variable_name,new_variable_name filename.nc ver esto!
7. https://nicojourdain.github.io/students_dir/students_netcdf_nco/ info!!!
8. https://pyhogs.github.io/intro_netcdf4.html

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 NO ES ESA SENAL
    2. /opt/netcdf/current/bin/ncdump -h grid_R0156m.nc
    3. cdo -P 8 remapnn,myGridDef -setgrid,/poorgafile1/climate/dipu/forces/analysis/GRID/hdcp2_de_default_nest_R0156m.nc -selname,cell_sea_land_mask /home/jvillarreal/grid_R0156m.nc /home/jvillarreal/*grid_R0156m_1step.nc* NO ES ESA SENAL
5. cdo -P 8 remapnn,myGridDef -setgrid,/work/bb1036/b381362/dataset/hdcp2_de_default_nest_R0156m.nc -selname,FR_LAND /work/bb1036/b381362/dataset/extpar_hdcp2_de_default_nest_R0156m.nc /work/bb1036/b381362/dataset/landmask_grid.nc ——esto ya me da solo un tiempo ya no debo eliminar el timestep
6. module load nco
7. 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~~
8. 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,ps /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 si se puede pero en el appssh -X b381362@mistralpp.dkrz.de

1. (phd) jvillarreal@poorga1:~$ sftp b381362@mistral.dkrz.deb381362@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

9. cdo -O -f nc merge 3D.nc 2D_grid.nc input1_rttov.nc (https://code.mpimet.mpg.de/boards/2/topics/5239)
10. Faltas las otras variables height, half, landmask, orography
    1. scp grid_R0156m_1step.nc b381362@mistral.dkrz.de:/work/bb1036/b381362/dataset ??no use
    2. scp GRID_DOM03_new.nc b381362@mistral.dkrz.de:/work/bb1036/b381362/dataset ok
11. cdo -O -f nc merge 3D.nc 2D_grid.nc landmask_grid.nc GRID_DOM3_new.nc input_test_rttov.nc
12. cortar para q no pese mucho
    1. ncks -d lon,5.,6. -d lat,48.,50. input_test_rttov.nc test-rttov.nc %Npoint=182*59=10738

    NO HICE 2 TIME

    sftp b381362@mistral.dkrz.deb381362@mistral.dkrz.de's password:

    1. sftp> cd /work/bb1036/b381362/dataset
    2. sftp> get test-rttov.nc voy a probar en el poorgafile el landmask
13. test
    1. change the name in github/Retrievals/ML_RTTOV/src/main/ml_rttov.f90
    2. source ~/.bashrc
    3. conda activate phd
    4. cd github/Retrievals/ML_RTTOV/
    5. module load intel
    6. make
    7. ./ml_rttov

14. Analizar el landmask
    1. jupyter-lab --no-browser --port=8887
    2. ssh -N -f -L localhost:8888:localhost:8887 jvillarreal@192.168.155.1

3. notebook_input_rttov.ipynb

▼ 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
- ncdump -k GRID_DOM3_new.nc check what netcdf ise

▼ 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

<link rel="stylesheet" type="text/css" href="https://meteo.physgeo.uni-leipzig.de/meteo.css"><link rel="stylesheet" type="text/css" href="https://meteo.physgeo.uni-leipzig.de/header.css">