Set environmental variables in AWS WRF

$ csh

setenv DIR /home/ubuntu/Build\_WRF/LIBRARIES/  
setenv CC gcc  
setenv CXX g++  
setenv FC gfortran  
setenv FCFLAGS -m64  
setenv F77 gfortran  
setenv FFLAGS -m64

setenv PATH $DIR/netcdf/bin:$PATH  
setenv NETCDF $DIR/netcdf

setenv PATH $DIR/mpich/bin:$PATH

setenv PATH $DIR/mpich/bin:$PATH

setenv LDFLAGS -L$DIR/grib2/lib   
setenv CPPFLAGS -I$DIR/grib2/include

setenv JASPERLIB $DIR/grib2/lib  
setenv JASPERINC $DIR/grib2/include

# bash

$

check folder size in LINUX

**du -h --max-depth=1 | sort -hr**

Download GFS data for a given date:

**./download\_GFS0.25\_today.sh**

!!!!! Remove and entire directory !!!!!

**rm -rf /path/to/directory**

**# resize partition after having increased an EBS volume**

lsblk

sudo growpart /dev/xvda 1

**# resize filesystem**

sudo resize2fs /dev/xvda1

**# ncl, nco, and ncvew can be easly installe via “sudo apt-install ncl” etc…**

**#### WRF Met ###########################################**

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$

To include erodibility map (EROD)

*If you run WRF-Chem, link the GEOGRIB table to GEOGRIB.TBL\_ARW\_CHEM*

cd /home/ubuntu/Build\_WRF/WPS/geogrid/

**ln -svf GEOGRID.TBL.ARW\_CHEM GEOGRID.TBL**

**without chem use:**

**ln -svf GEOGRID.TBL.ARW GEOGRID.TBL**

**#######################################**

cd /home/ubuntu/Build\_WRF/WPS

**# only when required**

./geogrid.exe

**# Link Met data ###############################**

cd /home/ubuntu/Build\_WRF/WPS/

./link\_grib.csh /home/ubuntu/Build\_WRF/forcing\_data/2017111000/gfs\*

# updated the **Vtable** (or place a Vtable file directly in the WPS folder)

ln -sf ungrib/Variable\_Tables/Vtable.GFS\_new Vtable

./ungrib.exe >ungrib.log

./metgrid.exe >metgrid.log

**# WRF MET #####################################################**

cd /home/ubuntu/Build\_WRF/WRFV3/test/em\_real/

**# start WRF MET**

./real.exe

./wrf.exe