Procedures for running WRF REAL DATA cases for SPRING 2024
ATM419/563 Spring 2024

These notes specifically pertain to running WRF **real data cases ONLY**.
The script "submit_wrf" *may not be configured optimally* for your case.

Part 1: Running on the batch cluster [default for now]

   (1) Log onto **head.arcc.albany.edu**
   (2) Make a directory for your experiment and move into it
   (3) Copy the make_all_links.sh file configured for WRF real runs on batch
        $ cp $LAB/SCRIPTS/make_all_links.sh .
   (4) Execute the make_all_links file to set up your environment
        $ sh make_all_links.sh
   (5) Execute WRF/WPS programs at the command line with srun or srun -p
        batch. The "-p batch" is optional as it is the default. Examples:
        $ srun -p batch ungrib.exe
        $ srun -p batch -n 8 geogrid.exe
        $ srun -p batch -n 8 metgrid.exe
        $ srun -p batch -n 8 real.exe
   (6) Copy the submit script "submit_wrf" to your space
        $ cp LAB/SCRIPTS/submit_wrf .
   (7) Submit the wrf job to batch. The "-p batch" is again optional
        $ sbatch -p batch submit_wrf

**Part 2: Running on the Snow cluster. This requires a different headnode,
different set of libraries, and different WRF/WPS executables.**

   (1) Log onto **headnode7.rit.albany.edu**
   (2) Execute the "**old**" command at the command line. Once per session.
        $ old
   (3) Make a directory for your experiment and move into it
   (4) Copy the make_all_links_SNOW.sh file configured for WRF real runs on snow
        $ cp $LAB/SCRIPTS/make_all_links_SNOW.sh .
   (5) Execute the make_all_links_SNOW file to set up your environment
        $ sh make_all_links_SNOW.sh
   (6) Execute WRF/WPS programs at the command line with srun or srun -p snow.
        The "-p snow" is required as it is not the default. Examples:
        $ srun -p snow ungrib.exe
        $ srun -p snow -n 8 geogrid.exe
        $ srun -p snow -n 8 metgrid.exe
        $ srun -p snow -n 8 real.exe
   (7) Copy the submit script "submit_wrf" to your space
        $ cp LAB/SCRIPTS/submit_wrf .
   (8) Submit the wrf job to batch. The "-p snow" is again required
        $ sbatch -p snow submit_wrf