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1  Script for MPAS demonstration (BATCH cluster version)
2  ATM419/563 Spring 2024
3
4  IMPORTANT: Log onto head.arcc.albany.edu. At the command prompt for
5  each session you open, type the “new” command to activate the newer software
6  libraries.
7      $ new
8
9  * ----- preliminaries ----- *
10 * make a directory in your lab space called MPASV8, and move into it
11 * copy $LAB/MPASV8/* .
12 * execute sh make_mpas_links.sh
13
14 * ----- init_atmosphere ----- *
15 • namelist.init_atmosphere and streams.init_atmosphere are pre-configured
16 • x1.10242.static.nc is supplied
17
18 sbatch -p batch submit_init                [should run very fast]
19 tail -f log.init_atmosphere.0000.out
20     [look for
21         Error messages =                0
22         Critical error messages =      0]
23 • creates x1.10242.init.nc
24
25 * ----- atmosphere ----- *
26 • namelist.atmosphere and streams.atmosphere are pre-configured
27
28 sbatch -p batch submit_mpas
29 tail -f log.atmosphere.0000.out
30     [look for
31         Error messages =                0
32         Critical error messages =      0]
33 • creates history*, diag*, and restart* files
34
35 * ----- post-processing ----- *
36 • target_domain file is pre-configured to focus on eastern U.S.
37 • make sure if a “latlon.nc” file exists it is removed
38
39 $LAB/SOFTWARE/MPASV8/convert_mpas/convert_mpas history.1993-03-
40 15_00.00.00.nc
41
42     [command above is a single line]
43
44 • creates latlon.nc
45
46 • launch ARCC jupyterlab, using batch or snow resources
47 • execute notebook plot_mpas_latlon.ipynb

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