“Storm of the Century” (SOC) experiment Part 2 (Using NARR)
ATM 419/563 – Fovell – Spring 2023

• mkdir SOC2
• cd SOC2
• cp $LAB/SOC/SETUP.TAR .
• tar -xvf SETUP.TAR
• sh make_all_links.sh
• cp ..;/SOC/geo_em.d01.nc .
• cp Vtable.NARR Vtable

• **EDIT** namelist.wps for
  – interval_seconds = 10800
  – &ungrib: prefix = ‘NARR’
  – &metgrid: fg_name = ‘NARR’
  – Move “/” line AFTER “constants_name” line!!!!!!!

• link_grib.csh $LAB/DATA/NARR_199303/merged* .

• sbatch -p snow submit_ungrib
  [CHECK tail ungrib.log for “Successful completion...”]

• sbatch -p snow submit_metgrid
  [CHECK tail metgrid.srun.out for “Successful completion...”]

  • [CHECK for num_metgrid_levels and num_metgrid_soil_levels]

• ncdump -h met_em.d01.1993-03-12_12:00:00.nc | more

• **EDIT** namelist.input
  – Make sure metgrid levels set correctly
  – Make sure fdda = 0
  – Make sure skebs = 0
  – Make sure perturb_bdy = 0
  – interval_seconds = 10800
  – p_top_requested = 10000 [was 1000]
• sbatch -p snow submit_real
  • [USE trsl TO CHECK. Make sure last line is SUCCESS COMPLETE]
• sbatch -p snow submit_wrf
  • [USE trsl TO CHECK. Make sure last line is SUCCESS COMPLETE]
• sh analyze.sh

• **If you are not able to reproduce my numbers, make sure the constants_name section of namelist.wps is correct, and rerun metgrid.exe**