## Exercise 3:

Repeat Exercise 2, except BRANCH from the end of Exercise.2. Turn off ice runoff in the land model and quadruple CO2. Run 1 month. Restart for 1 month.

1. create\_newcase -case ~/b.day2.3 -res T31\_gx3v7 -mach bluefire -compset B\_1850\_CN  $\,$ 

cd ~/b.day2.3

Notes:can't clone exercise 2. exercise 2 is a hybrid and exercise 3 is a branch. too many subtle script differences

- 2. xmlchange -file env\_run.xml -id INFO\_DBUG -val 2
   xmlchange -file env\_run.xml -id STOP\_N -val 1
   xmlchange -file env\_run.xml -id STOP\_OPTION -val nmonths
   xmlchange -file env\_run.xml -id RESUBMIT -val 1
- 3. vi (or emacs) env\_run.xml to change LOGDIR to /glade/scratch/\$CCSMUSER/logs/\$CASE, or xmlchange -file env\_run.xml -id LOGDIR -val '/glade/scratch/\$CCSMUSER/logs/\$CASE'
- 4. xmlchange -file env\_conf.xml -id CCSM\_CO2\_PPMV -val 1138.8
- 5. xmlchange -file env\_conf.xml -id CLM\_NAMELIST\_OPTS -val ice\_runoff=.false., or don't specify anything for ice\_runoff...default value is false

## \*\*\*Stuff for FOR BRANCH

- 6. xmlchange -file env\_conf.xml -id RUN\_TYPE -val branch
- 7. xmlchange -file env\_conf.xml -id RUN\_REFDATE -val 0001-02-01
- 8. xmlchange -file env\_conf.xml -id RUN\_REFCASE -val b.day2.2
- 9. xmlchange -file env\_conf.xml -id GET\_REFCASE -val FALSE
- \*\*\*end Stuff for FOR BRANCH

NOTES: steps 7 and 8 refer to the restart files created at the end of exercise 2. if the students run a different time length, then they can restart from whatever restart files they have.

- 10. configure -case
- 11. Manually update your README.case file to reflect changes
- 12. b.day2.3.bluefire.build

## \*\*\*Stuff for FOR BRANCH

- 13. cp /glade/scratch/\$LOGNAME/archive/b.day2.2/rest/0001-02-01-00000/rpointer\*
  /glade/scratch/\$LOGNAME/b.day2.3/run/.
- cp /glade/scratch/\$LOGNAME/archive/b.day2.2/rest/0001-02-01-00000/b.day2.2\*
  /glade/scratch/\$LOGNAME/b.day2.3/run/.

Notes: restart files may still be in exercise 2 rundir, you can copy them from this space too. Also, if the students are branching from a different date, the date stamp will be different than the above example.

\*\*\*end Stuff for FOR BRANCH

- b.day2.3.bluefire.submit