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Homework #1

September 4, 2014

Due September 11 or 15, 2014

Prepare a 5-minute presentation to the class either discussing one set of figures from Chapter 2 of Cook (2013), or solving one of the exercises at the end of Chapter 2. The presentations will be in class either Sept. 11 or Sept. 15. The figures, in color, are in the PowerPoints [ClimDynLecture3.pptx](#) and [ClimDynLecture4.pptx](#), available by clicking these links or at <http://climate.envsci.rutgers.edu/climdyn2014/slides/>.

There will be a signup sheet on Sept. 8, so be prepared to choose one of the following. If you have a choice before that, send it to me at robock@envsci.rutgers.edu

If you are doing one of the problems, be prepared to show all your work. Exercises are from the end of the Chapters in Cook (2013). [2.1 means Chapter 2, Exercise 2.1]

1. Paul Beam Exercise 2.2
2. John McCarty Exercise 2.3
3. Mike Lambrinos Exercise 2.4
4. Hua Shang Exercise 2.5
5. Erik Chan Discuss Figs. 2.3 and 2.4 (900 mb geopotential height)
6. Justin Lawrence Discuss Figs. 2.3 and 2.5 (200 mb geopotential height)
7. Patrick Villarante Discuss Figs. 2.6 and 2.7 (900 mb T horizontal distribution)
8. Cody Hewitt Discuss Figs. 2.8 and 2.9 (900 mb T vertical structure)
9. Joe Slezak Discuss Fig. 2.10 (zonal mean zonal wind)
10. Scott Gandy Discuss Figs. 2.11 (zonal mean meridional wind)
11. Megan Martin Discuss Figs. 2.12 (zonal mean vertical wind)
12. Shawnie Caslin Discuss Figs. 2.13 (900 mb wind horizontal distribution)
13. Katie McCracken Discuss Figs. 2.14 (200 mb wind horizontal distribution)
14. Juan Perez Discuss Figs. 2.15, 2.22, and 2.16 (global SST horizontal distribution)
15. Max Pike Discuss Figs. 2.25, 2.26, and 2.27 (precipitation horizontal distribution)
16. Coleen McHugh Discuss Figs. 2.28 and 2.29 (evaporation horizontal distribution)
17. Tyler Case Discuss Figs. 2.30, 2.31, and 2.32 (specific humidity)
18. Sean Kelly Discuss Figs. 2.33 and 2.34 (cryosphere)