
PHY 392S
PHYSICS OF CLIMATE
Spring Term, 2011
GENERAL INFORMATION

- LECTURER:** Prof. Kimberly Strong
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- TEACHING ASSISTANT:** Zhe Jiang
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- LECTURES:** 2:10 – 3:00 PM, Mondays and Wednesdays, Room MP137
- OFFICE HOURS:** 3:00 – 4:00 PM Wednesdays, Room MP710A
Also, feel free to drop by or make an appointment.
- HOMEWORK:** There will be 4 problem sets. They will be due, in class, two weeks after they are assigned. There will be a late penalty of 5% per day, up to 7 days, after which material will not be accepted.
- MARKING:** 40% Problem sets (will hand out on January 24, February 14, March 7, March 23; due in class February 7, February 28, March 21, April 6)
20% Mid-term test (in class Wednesday, March 2)
40% Final exam
- HOMEPAGE:** <http://www.atmosp.physics.utoronto.ca/people/strong/phy392/phy392.html>
Lectures and supplementary material will be posted on the course homepage.
- TEXTBOOKS:** **Required Text:**
Atmosphere, Ocean, and Climate Dynamics, John Marshall and R. Alan Plumb, Academic Press, 2008.
- Additional Reference Books:**
Introduction to Atmospheric Physics, David G. Andrews, Cambridge University Press, 2000.
Atmospheric Science, An Introductory Survey, John M. Wallace and Peter V. Hobbs, Academic Press, 2006.
- OUTLINE:** Topics covered (not necessarily in order presented)
- Global energy balance
 - Radiative transfer
 - The vertical structure of the atmosphere
 - Convection
 - The meridional structure of the atmosphere
 - The general circulation of the atmosphere
 - The ocean and its circulation
 - Climate variability
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