

ATMO 352: Severe Weather and Mesoscale Forecasting
Spring 2007 Reading Assignments

Number	Date	Assignment	Category
1	1/18/07 to 1/19/07	Bluestein (1993) Recommended Textbook Sections 3.3, 3.4.2, 3.4.3, 3.4.5	Recommended
		COMET MetEd module on “Principles of Convection I: Buoyancy and CAPE” on the Internet at http://www.meted.ucar.edu/mesoprim/cape/	Required
2	1/25/07 to 1/26/07	The Use of The Skew-T Log-P Diagram in Analysis and Forecasting: AWS-TR79-006 Sections 2.1, 2.2, 4.12, 4.13, 4.14, 4.15, 4.16, 4.19, 5.1, 5.2, 5.5, which are located on pages 2.1-2.2, 4.12-4.19, and 5.1-5.6. Read others sections as needed for review to complete Lab #2. See class web page – Laboratory Materials.	Required (Lab #2)
3	1/31/07	The Use of The Skew-T Log-P Diagram in Analysis and Forecasting: AWS-TR79-006 Sections 5.24.0, 5.24.2, 5.24.9, 5.24.12, and 5.24.17, which can be found on pages 5-33-5.35, 5.38-5.39, and 5.42-5.43.	Required (Lab #3)
4	2/5/07	COMET MetEd module on “Principles of Convection II: Using Hodographs” on the Internet at http://meted.ucar.edu/mesoprim/hodograf/	Required (Lab #4)
5	2/12/07	“Radar Meteorology: Online Remote Sensing Guide” by the University of Illinois WW2010 Project on the Internet at: http://ww2010.atmos.uiuc.edu/(Gh)/guides/rs/rad/home.rxml	Required (Lab #5)
6	2/19/07	“Satellite Meteorology: Online Remote Sensing Guide” by the University of Illinois WW2010 Project on the Internet: http://ww2010.atmos.uiuc.edu/(Gh)/guides/rs/sat/home.rxml	Required (Lab #6)
7	2/19/07	Bluestein (1993) Recommended Textbook Sections 3.4.6, 3.4.7	Recommended
		COMET MetEd module on “Principles of Convection III: Shear and Convective Storms” on the Internet at http://meted.ucar.edu/mesoprim/shear/	Required
8	3/5/07	“SPC and its products” found on the Internet at http://www.spc.noaa.gov/misc/about.html	Required (Lab #8)
9	3/27/07	COMET MetEd module on “A Convective Storm Matrix: Buoyancy/Shear Dependencies” on the Internet at http://www.meted.ucar.edu/convectn/csmatrix/ Note: You should go through <i>all</i> of the introductory, background and convective matrix materials. In addition, you should be able to answer the questions that accompany the module (you do not have to hand anything in). This reading assignment will take some time!	Required
10	4/16/07	Bluestein (1993) Recommended Textbook Section 3.4.8; NOTE: Also carefully re-read 471-481 of Section 3.4.6, focusing on helicity and tornadoes	Recommended
11	4/23/07	Bluestein (1993) Recommended Textbook Section 3.4.9	Recommended
		COMET MetEd module on “Severe Convection II: Mesoscale Convective Systems” at http://www.meted.ucar.edu/mesoprim/severe2/	Required