

Atmospheric Sciences 5130: Spring 2016
Schedule

Week	Date	Day	Topics	Reading	HW
1	1/11	M	Introduction		
	1/13	W	Moisture variables; dry adiabatic processes	WH 3.5, K 5.4, P 7.1, 7.3.1, 7.4	
	1/15	F	Moisture variables; dry adiabatic processes	(same)	
2	1/18	M	<i>(Holiday: no class)</i>		
	1/20	M	Skew T -log p diagram: dry adiabatic processes	K Fig. 7 (p. 27), P 1.4.4, 5.4.3, 7.5-6	
	1/22	W	Skew T -log p diagram: dry adiabatic processes	(same)	# 1
3	1/25	F	Skew T -log p diagram: dry adiabatic processes	(same)	
	1/27	W	Skew T -log p diagram: saturated adiabatic processes	K 5.5-7, P 7.2, 7.7.1-2, 7.8-9	
	1/29	F	Skew T -log p diagram: saturated adiabatic processes	(same)	# 2
4	2/1	M	Skew T -log p diagram: saturated adiabatic processes	(same)	
	2/3	W	Skew T -log p diagram: saturated adiabatic processes	(same)	
	2/5	F	Skew T -log p diagram: liquid water and total water	K 5.7, P 7.10.3-4	# 3
5	2/8	M	Skew T -log p diagram: liquid water and total water	(same)	
	2/10	W	Precipitation rate; snow versus rain	(lecture notes)	
	2/12	F	Saturation adiabatic lapse rate	K 7.1.2, P 7.7.3	# 4
6	2/15	M	<i>(Holiday: no class)</i>		
	2/17	M	Stability; buoyancy oscillations	K 7.2, P 8.1-3	
	2/19	W	CAPE, LCL, LFC, NBL; maximum updraft speed	K 7.3, P 8.4-5	# 5
7	2/22	F	Skew T -log p diagram: microburst downdrafts	(lecture notes)	
	2/24	W	Skew T -log p diagram: microburst downdrafts	(lecture notes)	
	2/26	F	Review		# 6
8	2/29	M	Final Exam		

WH = Wallace & Hobbs, K = Thermodynamics notes, P = Petty