

# MET 101 Meteorology

## Understanding Weather and Climate

### Textbook 5<sup>th</sup> Edition

### Laboratory Reading Assignments

**Warning Note:** This older syllabus was created and used corresponding to the fifth edition textbook of Aguado and Burt, Understanding Weather and Climate and is being provided for you as a courtesy to save money on your textbook costs. You may purchase the older edition of the textbook via a website such as Amazon.com at a significant savings as compared to the price of the current edition of the textbook. You are responsible for printing out and filling in the dates and lab manual pages below as were given to you in the lab syllabus, that was given to you on the first day of lab. Failure to do this does not constitute a valid reason or excuse as to why you were not prepared for a lab quiz or know what lab was going to be collected that day. The special 'notes' that are scattered below are also described for you in the lab syllabus that was given out to you on the first day of lab.

**Preparation:** Students are required to read each lab/labs and any reading assignments from the textbook before coming to the laboratory as there will be a quiz to see if you are prepared.

<u>Date</u>	<u>Lab #</u>	<u>Lab(s) Covered</u>	<u>Lab Manual Pages</u>	<u>Textbook Reading Assignment</u>
	0	Syllabus, Lab Safety		
	1	Using Doppler Radar: WSR-88D		
	2	Isopleth Analysis * Isotherms		75-82
	3	The Effect of Heat Capacity on Temperature		16, 70-72
	4	* Isobars		20, 109-110
	5	ASOS and METAR		418-419
	6	Surface Station Models <sup>(See Note 1)</sup>		20-23, 418-419, 551-554
	7	Air Masses and the Stationary Front <b>Announced Lab Quiz 1:</b> Surface Station Models <sup>(See Note 2)</sup>		272-277, 290, 298-301
	8	* Warm and Cold Fronts		282-293, 298-303
<b>Lab Midterm Exam</b>				
	9	* Skew-T Diagram (Up to RH <sub>2</sub> ) <sup>(See Note 1)</sup>		27, 83-84, 88-91, 419-421, 138
	9	* Skew-T Diagram (Max Temp to End) <sup>(See Note 1)</sup>		438, 173-175
	10	Precipitation Processes		148-149 and 200- 207
	11	Upper Air Station Models <sup>(See Note 3)</sup>		419-421
	12	* Severe Weather Analysis <sup>(See Notes 1 and 4)</sup> <b>Announced Lab Quiz 2:</b> Warm and Cold Fronts <sup>(See Note 2)</sup>		361-363
	12	* Severe Weather Analysis <sup>(See Notes 1 and 5)</sup> <b>Announced Lab Quiz 3:</b> Air Masses and Analysis of Warm and Cold Fronts		361-363
<b>Lab Final Exam</b>				