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Introduction to Atmospheric Chemistry (Princeton University Press, 1999). They are arranged following the different chapters of the book. In recent years I have added to my course lectures a chapter 14, 'Aerosol Chemistry' and a chapter 15, 'Mercury in the Environment'.

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Atmospheric (Vertical) Stability I •  
Adiabatic Lapse Rate ( $\Gamma$ ) - vertical temperature profile when air ascends or descends adiabatically, i.e. w/o giving or receiving heat - For Earth,  $\Gamma = 9.8 \text{ K km}^{-1}$  - Will deduce it from first principles later in the course • Buoyancy force  $F_b = \rho'g - \rho g$  From Jacob Atmospheric (Vertical) Stability II

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1 MEASURES OF ATMOSPHERIC  
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PRESSURE 6. PROBLEMS 10. 1.1 Fog  
formation 10. 1.2 Phase partitioning of  
water in cloud 10. 1.3 The ozone layer  
10. 2 ATMOSPHERIC PRESSURE 12. 2.1  
MEASURING ATMOSPHERIC PRESSURE  
12. 2.2 MASS OF THE ATMOSPHERE 13.  
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Lecture 1: Introduction I. Additional Reading on Units and Atmospheric Structure Jacob's chapter 1 on measures



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