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 1 MEASURES OF ATMOSPHERIC COMPOSITION
 1. 1.1 MIXING RATIO
 1. 1.2 NUMBER DENSITY
 2. 1.3 PARTIAL 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. 2.3 VERTICAL PROFILES OF PRESSURE AND TEMPERATURE
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 Introduction to Atmospheric Chemistry: Daniel J. Jacob ...
 Importance of Atmospheric Chemistry
 • Atmosphere is very thin and fragile! - Earth diameter = 12,740 km - Earth mass ~ 6×10^{24} kg - Atmospheric mass ~ 5.1×10^{18} kg - 99% of atmospheric mass below ~ 50 km - Solve in class: order of magnitude of mass of the oceans? Mass of entire human population?
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 1. Introduction to Environmental Chemistry Readings: Chapter 1 Course introductory comments
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 We focus on CFC -12, which has an atmospheric lifetime of 100 years against loss by photolysis in the stratosphere.
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 Solution For the air in balloon at ground level: $p_i = 1013$ hPa $T_i = 20$ C = 293 K
 For the air in balloon at 900 hPa $p_f = 900$ hPa $T_f = 87.43$ C (from solution to Exercise 3.22) = 360.43 K
 Suppose the air in the balloon goes from its initial to its final state in two steps: 1
 Solutions for Selected Exercises
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 z , km -Og profile piecewise linear approximation
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 Guy Brasseur Max Planck Institute for Meteorology, Hamburg, Germany and National Center for Atmospheric

Research, Boulder, CO, USA
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Lecture 1: Introduction to Atmospheric Chemistry

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