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Lab

5

Atmospheric Moisture

Scan to view the Pre-Lab Video
for this lab.



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Introduction

What is humidity and how is it important to atmospheric processes? This lab shows how we measure atmospheric moisture and uses two experiments to illustrate its role in energy transfer.

Objectives

After completing these exercises, you should be able to:

- Measure energy transfer when mixing water of different temperatures or changing its form (solid, liquid, gas)
- Explain how surface moisture affects temperature response to energy fluxes
- Calculate various measures of atmospheric moisture (water vapor) and explain the relationship between them
- Summarize how temperature and humidity influence evaporation rate

Materials needed: calculator, straight edge

Latent Heat

Water is a unique substance because it occurs in three phases (solid, liquid, and vapor) at temperatures and pressures that commonly occur on Earth. The phase change of water is what makes the weather interesting, variable, and often unpredictable. When it changes phase, water either releases or consumes energy—a process

called latent heat transfer. The following two experiments illustrate the concept of latent heat. If you do not have the necessary equipment to conduct these experiments, please read through them anyway, carefully review the section on latent heat in your textbook, and answer the general questions (10–13).

Lab 5 Atmospheric Moisture Answers

RS Peters



Lab 5 Atmospheric Moisture Answers:

Micro- and Nano-Scale Sensors and Transducers Ezzat G. Bakhoun, 2016-03-09 The rapidly emerging fields of nanotechnology and nano fabrication have enabled the creation of new sensors with dramatic improvements in sensitivity and range along with substantial miniaturization And although there are many books on nanotechnology recent advances in micro and nano scale sensors and transducers are not adequately represented *Report Intermountain Forest and Range Experiment Station (Ogden, Utah), 1952* *Annual Report - Intermountain Forest & Range Experiment Station* Intermountain Forest and Range Experiment Station (Ogden, Utah), **Fish and Wildlife News**, 1984 *U.S. Government Research & Development Reports*, 1970 Fish and Wildlife News U.S. Fish and Wildlife Service, 1983 **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1999-04 *Report Intermountain Forest and Range Experiment Station (Ogden, Utah), 1955* R.R. Bowker's Software for Schools, 1987 **Earth Science**, 2001 *The SAE Journal*, 1964 *English Mechanic and World of Science*, 1898 The Timberman, 1959 **National Miller and American Miller**, 1921 **EPA Publications Bibliography**, 1988 *Government Reports Annual Index*, 1984 **English Mechanic and Mirror of Science**, 1898 Michigan School Moderator, 1885 *Market Growers Journal*, 1954 *Instruments; the Magazine of Measurement and Control*, 1955

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