

# LAB #9: Station Models

## ***Background:***

The reporting of present weather conditions and the forecasting of future weather is the combined effort of thousands of weather stations throughout the world. More than 600 stations exist in the United States alone. These stations report their weather variables to the National Weather Service. This weather information is computerized, analyzed and plotted on weather maps. Weather maps can then help to forecast changes in the weather. Symbols and numbers are placed on the weather maps to represent the atmospheric variables at a particular place and time.

The challenge is that a large amount of data needs to be communicated to for weather station in the US. Because of the lack of space on weather maps, the weather information needs to be coded. In order to do this the information needs to be highly organized and standard throughout country. By using station models the data can be represented by a symbol or number, and its meaning is easily understood by where the symbol or number is placed on the station model.

Through this lab you will learn to understand station models used in meteorology by coding and decoding a variety of stations.

## ***Objectives:***

***At the conclusion of this lab, I will be able to...***

1. Analyze weather station models and determine weather factors found at those locations.
2. Draw weather station models accurately placing the weather factors in the correct position on the model.
3. Answer summary questions whose answers are based on the relationship of variables found on station models.
4. Use your knowledge of weather station models to determine weather conditions on two weather maps of the United States.

## ***Standards:***

## ***Materials:***

- Lab Report
- Earth Science Reference Tables

A reminder on decoding air pressure:

Step 1: If the coded pressure is higher than 500, add a 9 to the front. If 500 or less add a 10

Step 2: Place a decimal between the last two numbers

Ex1: 629 becomes 9629 becomes 962.9

Ex2: 255 becomes 10255 becomes 1025.5

A reminder on encoding pressure:

Step 1: Remove the decimal point

Step 2: Report the last three numbers

Ex1: 984.6 becomes 846

Ex2: 1000.3 becomes 003

# Station Models Lab Answer Key

**David W. Taylor Model Basin**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the David W. Taylor Model Basin text.

## Station Models Lab Answer Key:

HIT Lab Report University of Michigan. Highway Safety Research Institute, 1972-04      **Monthly Catalogue, United States Public Documents**, 1995      **Offshore Pipeline Design Elements** John B. Herbich, 1981      **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      **Nuclear Science Abstracts**, 1973 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available      **Investigating Visuospatial and Chemistry Skills Using Physical and Computer Models** Mithra Beikmohamadi, 2006      *Boulder Canyon Project: Hydraulic investigations: Bull. 1. Model studies of spillways. Bull. 2. Model studies of penstocks and outlet works. Bull. 3. Studies of crests for overfall dams. Bull. 4. Model studies of Imperial Dam, desilting works, all-American canal structures* United States. Bureau of Reclamation, 1938      *Technical Report*, 1972      Report - David W. Taylor Model Basin David W. Taylor Model Basin, 1955      *Journal*, 1981      Coal Abstracts, 1992      **Environment Abstracts**, 1985 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters      Heat Transfer 1978: Keynote papers, 1978      **The Energy Index**, 1983      *Pesticide Residues in Food*, 1991, 1992      **Pesticide Residues in Food**, 1991      Heat and Mass Transfer in Frost and Ice, Packed Beds, and Environmental Discharges Rao V. Arimilli, 1990      *Earthquake Engineering Research Center Library Printed Catalog* University of California, Berkeley. Earthquake Engineering Research Center. Library, 1975      Government Reports Annual Index, 1991 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z      IEEE PLANS '84, 1984

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