Laboratory Exercise #6 - Introduction to Oceanography

A. Introduction

Oceanography is obviously the study of the oceans. However, there are many different branches within the science of oceanography that draw knowledge and expertise from every major scientific discipline. For example, marine biologists study the organisms and the ecology of the oceans. Conversely, physical oceanographers are interested in the physics of the ocean; examining the nature of waves, tides, and ocean currents. Chemical oceanographers examine how the chemistry of the oceans changes with location and time. Finally, geologic oceanographers are mainly interested in how the bedrock and sediments of the ocean crust are formed. This lab will focus mainly on the physical and chemical aspects of seawater and will address the fundamental structure of the world's oceans.

B. Some Definitions

Oceanography to a large extent is greatly influenced by the following three measurable parameters.

Density – Is simply defined as a mass per volume. In oceanography the units are typically expressed as:

Density = Mass (g) / Volume (cm3)

Note that one cm3 equals one milliliter. Pure water at 4°C has a density that is exactly 1.0000 g / cm3.

IMPORTANT SIDE NOTE - Significant Digits - Note that there are four digits after the decimal place. THIS IS IMPORTANT. Scientists refer the number of digits written for a given observation as significant digits. The number of significant digits is a measure of the precision of your data. Basically, what 1.0000 g / cm³ indicates is that in the lab you can measure the weight of water to the nearest 0.0001 g / cm³, which is to the nearest 0.1 mg; requiring a high precision analytical balance. Bottom-line - the ten digit number generated by your calculator is almost always not the correct number and you need to learn how to round off your numbers to reflect your ability to measure that number.

Temperature – From a strictly physics prospective, temperature is a measure of the average kinetic energy that water molecules possess. The warmer the water, the more movement will be exhibited by individual water molecules. Lower temperatures will decrease water molecular movement. In pure water at 0°C the movement of water molecules is decreased significantly so that weak chemical (hydrogen) bonds between the water molecules become stronger than the kinetic movement of the water molecules. At this point the water freezes and becomes a solid (ice).

Salinity — Seawater is obviously salty, unlike freshwater, and the measure of the degree of saltiness of seawater is called salinity, expressed in parts per thousand, otherwise known as parts per mil (%). Average seawater has a salinity of 35 %, which means:

Answer Laboratory Exercise In Oceanography

Arturo Cuomo

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Lab Exercises to Invitation T Pb Pinet.2003-03 Proceedings of the Symposium, 1965 Proceedings of the Symposium United States. Navy Symposium on Military Oceanography, Marine Bulletin, **Geophysical Abstracts** Oceanography Alan Rabinowitz, Toby Bates Sutton, 1970 The Oceans and Human Health, 2006 **FRIC** Educational Documents Index, 1966-69: Major descriptors ,1970 Laboratory Exercises in Oceanography Bernard W. Pipkin, Donn S. Gorsline, Richard E. Casey, 2001 This is the current edition of the lab manual used by tens of thousands of students over the past two decades As always the manual includes exercises for the major disciplines within oceanography biology chemistry geology and physics and incorporates real data from actual experiments The new edition adds four new labs thorough updating throughout new objectives sections and an 8 page color insert Annual Report - Scripps Institution of Oceanography Scripps Institution of Oceanography, 1967 **Annual Report - Institute of Oceanographic Sciences** Institute of Oceanographic Sciences (Great Britain), 1994 Oceans '86 Conference Record: Data management, instrumentation, and economics, 1986 **Proceedings** United States. Navy Symposium on Military Oceanography, 1965

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services ,1984 Report of the Standing Committee on the Oceanography of the Pacific Thomas Wayland Vaughan,1934 Annual Report Scripps Institution of Oceanography,1971 Report - The Woods Hole Oceanographic Institution Woods Hole Oceanographic Institution,1930 Scripps Tuna Oceanography Research (STOR) Program Report for the Year, July 1, 1968-June 30, 1969 Maurice Blackburn, Scripps Institution of Oceanography,1970 California Cooperative Oceanic Fisheries Investigations, Progress Report ,2012 Annual Report of the Pacific Oceanographic Group Pacific Oceanographic Group (Canada),1961

Decoding Answer Laboratory Exercise In Oceanography: Revealing the Captivating Potential of Verbal Expression

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