Sustainable Science Teachers Workshop: Watershed Monitoring

Saturday, March 10, 2012
University of Guam Marine Laboratory, Mangilao, Guam
Draft Agenda

8:30 – INCLASS: Introductions & Overview

9:00 – 11:45 – INCLASS: Briefing & Theory

1. Guam's Geography
2. Review – Geology of Guam
    a. Origin & Morphology
    b. Role of Groundwater
    c. Near-shore ocean circulation
3. Water Resources
    a. What is Water Quality Monitoring?
        i. What? (Temp, Sal, pH, D.O., CO2, Phosphates, Nitrates, Coliforms)
        ii. Where?
        iii. Why?
        iv. What can we learn?
    b. Natural vs. Anthropogenic Runoff
4. BREAK
5. Watershed Monitoring Tools
6. Study Approach Design
7. Field Methods Overview
    a. GPS
    b. Data collection
    c. Water sampling techniques

13:00 - 15:00 – OUTDOOR: Field Sampling & Data Collection

15:30 – 17:00 – INCLASS: Data Analysis, Discussions and Conclusions

1. Data collation & Fishbox data entry
2. Survey visualization via Google Earth
3. Data analysis & discussion
4. Conclusions & Future Steps
