

## **Data Management Plan**

Our data management plan is based on the requirements details in the NSF Grant Proposal Guide.

### **1. Types of Data and Other Materials Produced**

This project will produce dissolution flux estimates at various depths and locations in the Pacific. It will also produce laboratory data relating to the determination of dissolution rates. A simplified numerical model of pore water profiles will be constructed, and model outputs for various hypothetical diffusive-advective-reactive transport scenarios will be generated to test the hypothesis set forth in the proposal.

### **2. Standards for Data and Metadata**

Flux data and pore water model code will be preserved as annotated text files and/or comma-delimited .csv files. Data quality will be in accordance with published uncertainty ranges.

### **3. Data Access and Sharing Policies**

There will be no special privacy, confidentiality, security or property rights restrictions that would apply to any data collected by this project. All flux data will be made available as per NSF guidelines as soon as manuscripts are published. They will be made freely available with the published manuscripts as supplementary information.

### **4. Policies for Re-Use, Re-Distribution, and Production of Derivatives**

For the proposed project, no policies beyond those common to using previously published data (i.e., citing the original work) are imposed on the collected data or code modifications.

### **5. Data Archiving and Preservation**

Flux and pore water data will be stored on a USC (or Caltech) cloud-backup service, and we will also archive will be the Biological & Chemical Oceanography Data Management Office (BCO-DMO; [www.bco-dmo.org](http://www.bco-dmo.org)) at the Woods Hole Oceanographic Institution, as well as published papers and associated on-line supporting documents in peer-reviewed, international journals.