DATA Management Plan

RAPID: Urgent sampling zooplankton for assessing ecosystem restoration of Galveston Bay after catastrophic impacts of Hurricane Harvey

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Data Description

All images will be stored as *.tiff files. Other data will be in Excel files. Samples generated during this RAPID project will be stored in the PI laboratory for the duration of the project and available to other researchers upon request. All data will be accompanied by metadata files documenting relevant information about sample collection procedures, data quality (standard curves, measures of analytical error, replicates etc.), analytical procedures, calibration factors, storage location, etc. Where possible, re-analyses will be completed to double check anomalous values. The data will primarily consist of laboratory notebooks from biological analyses which will be entered into electronic format and stored on removable memory storage devices.

Data Organization

We plan to create links for downloading published data and publications. All project data will be made available to the research community through the peer-reviewed publications. The PIs assure that every publication of material (including World Wide Web pages) based on or developed in this project, except scientific articles or papers appearing in scientific, technical or professional journals, contains the following disclaimer: "Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.". We affirm that data generated, collected, and modeled as part of the proposed research and any existing supporting data will be preserved for at least 5 yr after the award ends.

Data Archive and Quality Control

In accordance with NSF PAPPG Data Policy, all data including data collected as part of the proposed RAPID and existing supporting data (i.e. historic data collected prior to the RAPID project) will be transmitted to NSF Biological and Chemical Oceanography Data Management Office at http://bcodmo.org/home for long-term storage and for public use.

Overall project management will be the responsibility of the PI. Strict lab policy governs and secures general protocols for data use, access, share, formats, security, backups and long-term archival, taking into consideration research needs, legal obligations, and ethical responsibilities. The data generated during the project will be systematically reviewed with varying levels of scrutiny at several junctures along the path from time of collection to final reporting; from quick, on-the-spot screening to in-depth evaluation against established criteria or standards. For much of the field collected data, the first level of validation, a cursory screening, will occur as data are recorded. With other types of data, the initial validation may not occur in such an immediate timeframe. In addition, most laboratory analyses of the project samples will be monitored by a series of in-stream QC checks that indicate the general level of data quality for a given batch of samples.