

## Data Management Plan

All methodology is developed and meticulously recorded before beginning an experiment and any necessary deviations are noted. PI Smee will oversee all members working on this project and insure consistent data collection methodology from all involved personnel using written procedures developed in previous experiments or in preliminary research. PI Smee will maintain constant contact to ensure consistent and proper methodological procedures are followed and provide training to all research participants to insure data quality.

Accomplishing the proposed research requires researchers recording observations, measuring results from empirical studies, and by analyzing publicly available data from government agencies. Agency data is quality controlled, publicly available from TPWD upon request, and will be analyzed after directly downloading. Empirical data from field sampling will be hand recorded in laboratory notebooks. PI Smee and all researchers under his supervision will record all observational data in laboratory notebooks, and these data will be entered into computer databases and statistical programs for summary and analysis. Copies of all notebooks will be kept in my lab and all computer data files will also be stored on appropriate media (2 copies each file on different storage devices) for at least 10 years beyond the end of the granting period.

Results from all experiments will be prepared for publication and submitted to high caliber, peer-reviewed, scientific journals including Ecology, Oecologia, and Marine Ecology Progress Series. Our goal is to begin submitting data for publication within one year after the granting period and have all related data submitted for publication within one year after the end of the granting period. In addition, raw data will be provided in supplementary online files to journals when appropriate. Besides scientific journals, grant participants attend 2-3 scientific meetings per year and share data in formal presentations and informally with conference attendees.

We anticipate <3 MB of data. Data will be prepared for archives and public sharing by Patrick David, Data Architect at the Dauphin Island Sea Lab (DISL). Mr. David has 20 years of data management experience and currently maintains public databases available through DISL including the Alabama Coastal Real-Time Observing System (ARCOS, [www.mymobilebay.com](http://www.mymobilebay.com)) and for the Alabama Center for Ecological Resilience. The servers at DISL are secure and have two off-site back-ups (i.e., away from coastal hazards). All data will be submitted to Ms. Hu within 6 months of collection for database incorporation. Following quality control, all data will be archived at the Biological and Chemical Oceanography Data Management Office (BCO-DMO) database. TPWD fisheries data is publicly available upon request, but the summary of these data and analyses will be uploaded into the BCO-DMO database. Data will be archived within 2 years of project completion; we strive for 1 year. Data will be shared freely, and data users asked to acknowledge data and funding sources. PI Smee has experience making data accessible by documented submissions to data archiving facilities and sharing data in usable formats.