

DATA MANAGEMENT PLAN

1. Types of data. All data and metadata will be stored and backed-up in the labs of the PIs involved in each portion of the project (see Project Management and Timeline) and will be retained for 10 years. During the course of this project we will collect five types of data:

- a. anatomical: histological material, digital SEM and fluorescent images;
- b. behavioral: video and subsampled larval positions from DISC deployments;
- c. ontogenetic: age, stage, size or larvae used in DISC deployments;
- d. experimental: tide, depth, distance from reef and location of DISC deployments;
- e. environmental: time of day, sun elevation, azimuth, incident solar radiation, wind speed, wave height, current velocity, etc.

In addition to storage and backing up of the data in the labs of the PIs, we are agreed on the following coordinated Data Management Plan for the entire project.

2. Standards for data. Metadata and all data will be submitted to the Biological and Chemical Oceanography Data Management Office (BCO-DMO) in their preferred format at the time of submission.

3. Policies for access to data. All data used in articles published in journals will be cleaned up, submitted to the BCO-DMO as a separate file, and made available at the time of publication. Standard policies for access, e.g., obtain permission from dataset owner, will be used as appropriate. Anatomical data that cannot be uploaded to BCO-DMO will be made available to investigators on request, via lab visits.

4. Policies for re-use of data. Collaborative re-use of the data, e.g., applying new analytical techniques to generate new insights [e.g., Buston & Elith (2012)], will be actively encouraged. Clearly, we will generate large amounts of data and others will have interesting ideas that we will be delighted to collaborate on.

5. Plans for archiving data. Data will be archived at the Biological and Chemical Oceanography Data Management Office (BCO-DMO). Anatomical data will be in the form of histological material and digital microscopic images. Selected images will be uploaded to the Webb Lab website (also BCO-DMO if possible) and voucher specimens will be deposited in the Ichthyology collection of the Museum of Comparative Zoology, Harvard University. Metadata will be submitted within 6 months of collection. All data will be submitted within 2 years of collection.