

## **Data Management Plan**

**Products of Research:** New data will not be generated as a result of the activities within the Coral Bleaching RCN. Instead, this RCN will generate the following seven products:

1. a list of ongoing experiments among workshop participants and a list of archived coral samples among workshop participants posted on the Coral Bleaching RCN website,
2. recommendations for experimental design protocols, recommendations for sample archiving protocols, recommendations for large-scale ecological data assimilation, all reported in peer-reviewed journal publications or white papers,
3. three cyber-seminars summarizing the workshop results that will be broadcast live and links to the archived seminars posted to the Coral Bleaching RCN website for future viewing,
4. powerpoint and poster presentations given at conferences summarizing the results of the workshops made available on the Coral Bleaching RCN website,
5. a Coral Bleaching RCN website,
6. 16 Early Career Trainees and Mentor pairs, and
7. new research collaborations will be facilitated.

**Data Format, Storage, and Preservation:** Lists of ongoing experiments and archived samples from workshop #1 and #2 will be logged in a searchable Microsoft Access database, archived on the Coral Bleaching RCN website hosted by Grottoli, and links to these archives will be included at the Biological and Chemical Oceanography Data Management Office (BCO-DMO) (<http://bcodmo.org/>). Access software is typically included with Microsoft Office packages and is therefore easily accessible to potential users of the lists. Any compiled data from workshop #3 will be saved in excel spreadsheets as comma delimited files, because they are a standard format that can be used on a variety of database and software programs including Microsoft excel. All data will be stored using standards developed for widespread usage and will include date (month, day, yr., hour, sec), treatment, species, and other relevant details. Data will initially be stored using available resources (i.e., external drive) and backed up on a cloud-based server (i.e., google drive or university supported cloud storage) by van Woesik. For long-term storage, the data will be archived at BCO-DMO. The cyber-seminars will be archived on YouTube and links to the seminars will be hosted on the Coral Bleaching RCN website and a dedicated WordPress site hosted through the University of Delaware, and the links archived on the project BCO-DMO site. Adobe .pdf files of conference presentations and posters, and links to any publications resulting from this grant, will also be archived on the Coral Bleaching RCN website hosted by Grottoli, and links to these archives will be included at BCO-DMO.

**Data Dissemination & Policies for Data Sharing and Public Access:** The compiled list of experiments (workshop #1), archived samples (workshop #2), and assimilated data (workshop #3) will be posted to the Coral Bleaching RCN website by Grottoli after the workshops, making them instantly publicly available. The recommended experimental and sample archiving protocols, and data assimilation recommendations developed as a result of the workshops will be published in peer-reviewed journal articles or in white papers, making the protocols and recommendations fully available to the coral research community at large. The assimilated data from workshop #3 will be deposited with BCO-DMO upon publication or within two years of compiling the data, whichever is first. In addition, links to the cyber-seminars, presentations and posters, and any publications resulting from this grant will be publically available through the Coral Bleaching RCN websites and the links posted to the BCO-DMO site as described above. Lead authorship and co-authorship on any resulting publications will be determined during each workshop as described in the proposal text.

**Roles and Responsibilities:** The data management will be the responsibility of PI Andrea Grottoli. She will oversee the postings to the Coral Bleaching RCN and deposition of data to BCO-DMO. She will also build and manage the Coral Bleaching RCN website within her own [u.osu.edu/Grottoli.1](http://u.osu.edu/Grottoli.1) website structure.