

## J. DATA MANAGEMENT PLAN

Stonybrook University (SBU), SUNY College of Environmental Science and Forestry (SUNY-ESF), and the University of Georgia (UGA) agree to comply with the open access data policy as described in the *Division of Ocean Sciences Sample and Data Policy, December 2016*.

### Types of Data and Access Locations

The oceanographic data, cruise deployment information, data sets, and derived data products stemming from this project will be made publicly available within two years following data generation. Data resulting from this project will be made available through the archive network managed by Biological and Chemical Oceanography Data Management Office (BCO-DMO). Before posting the final data to BCO-DMO, the data will be verified by the PIs. Ship meteorological data, surface seawater salinity and temperature data, and CTD metadata will be submitted through the Rolling Deck to Depository program (<https://www.rvdata.us/>). The educational website proposed in the Broader Impacts will be hosted by UGA and will be publicly available.

The following table summarizes the primary metadata files that will be produced, the access locations, and the corresponding points of contact.

Metadata	Database	Point of Contact
<i>Seawater Characteristics</i>		
Surface Tension	BCO-DMO	Frossard
Surfactants	BCO-DMO	Frossard
Bubble Plume Void Fraction	BCO-DMO	Frossard
Bubble Plume Size Distributions	BCO-DMO	Frossard
DOC	BCO-DMO	Beaupré
DIC	BCO-DMO	Beaupré
DO <sup>14</sup> C	BCO-DMO	Beaupré
DI <sup>14</sup> C	BCO-DMO	Beaupré
Chlorophyll <i>a</i> (Chl <i>a</i> )	BCO-DMO	Kieber
Carbohydrates (CHO)	BCO-DMO	Kieber
Combined Amino Acids (CAA)	BCO-DMO	Kieber
CDOM	BCO-DMO	Kieber
Ionic Composition	BCO-DMO	Kieber
<i>Primary Marine Aerosol Characteristics</i>		
Number size distributions	BCO-DMO	Frossard
Surface Tension	BCO-DMO	Frossard
Surfactants	BCO-DMO	Frossard
OC <sub>tot</sub>	BCO-DMO	Beaupré
<sup>14</sup> C	BCO-DMO	Beaupré
Ionic Composition	BCO-DMO	Kieber
Carbohydrates (CHO)	BCO-DMO	Kieber
Combined Amino Acids (CAA)	BCO-DMO	Kieber

### **Collaborator Access to Preliminary Data**

During the initial period of data interpretation prior to their public posting, we will also use the project website hosted at UGA to share preliminary versions of these data with collaborating investigators. After each cruise, measurements will be uploaded to this site in order to maintain one location with a backup of all of the data. There, we will also share with collaborators preliminary findings, draft manuscripts, and conference presentations.

### **Broad Dissemination of Final Data and Findings**

The PIs will publish the findings from this work in journals such the Journal of Geophysical Research and Geophysical Research Letters. They will abide by journal specific data access policies and refer back to the BCO-DMO database. Additionally, the PIs will present their findings at the 2022 Ocean Sciences meeting and a fall meeting of the American Geophysical Union (AGU). They also propose to chair a session based on this work, in order to draw a broad audience and share findings. The data and findings stemming from our research project will also be the basis for two PhD dissertations at the three institutions, which will be publicly available, upon submission.