Mechanisms of Arctic Ocean Acidification: Roles of Sea Ice

PIs: Jonathan Wynn, Lisa Robbins

Data sharing is an essential aspect of our proposed activities and will be carried out in several different ways. We plan to make our results readily available to several research communities in a complete and timely fashion through traditional data outlets, such as peer-reviewed publication in addition to a rapid-release *USGS Data Series* publication.

Thus our data sharing plan includes the following range of outlets:

USGS Data Series: Full data analyses will not be achieved by March 2013, however all data analyzed in the field will be QA/QC'd by November 2012 and a USGS Field Data Series Report, with metadata and data will be fully completed February 2013. Our goal is to present the entire database for three years of this project (three cruises), each within 1 years of the cruise. Thus, we plan on a fully complete and published data set by August 2013.

Publication in peer-reviewed scientific journals: As per the research timeline, we plan a PI meeting as soon as samples are collected and analyzed (March 2013) in order to discuss the data, and formulate a more detailed plan for publication. Given the broad scope of this project, we plan to publish the results broadly within the geochemical, oceanographic and geophysical literature. Although the ocean acidification in the Arctic may be of broad scientific interest and amenable to publication in *Science, Nature*, or *PNAS*, we would like to publish more detailed analyses in high-profile specialist journals of wide readership such as the *Journal of Geophysical Research (Oceans), Geophysical Research Letters, Biogeosciences* etc.

Presentations at national scientific meetings: Given the diverse aspects of this project, we expect that our results may be of interest to several research communities, and we plan to present our results during annual scientific meetings in several disciplines such as the American Geophysical Union.