Data Management Plan

The PIs of the project will have direct responsibility for acquiring, storing and sharing data following the "best practices" outlined by and the University of Hawaii's Executive Policy on Data Governance.

The tracer release experiment conducted during Baltic GasEx will generate data of temperature, salinity, ^3He, SF_6 from the CTD/rosette, and SF_6 data from the underway seawater system. Location and time information, as well as measurement errors will be stored with each measurement.

Initially, data will be shared only among the PIs, postdocs, students and technicians directly involved in the project. Within three years from the start of the project, all data generated by the UH and LDEO groups will be made freely available via journal electronic supplements and deposited for archival and public access at Biological and Chemical Oceanography Data Management Office (BCO-DMO) at WHOI website. The data will be uploaded in comma-separated value (.csv) format for easy reading from Excel, MATLAB or programming languages. We will also publish a data report for the helium isotope data with a digital object identifier (DOI).

In addition, data generated by the ship and from our German colleagues will be handled by the Kiel data management team. All general cruise information will be freely available from the Kiel Ocean Science Information System (OSIS; https://portal.geomar.de/kdmi), and updated with the scientific sampling events and general underway data immediately after the cruise is completed. The raw data acquired during the cruise are publicly visible and stored as georeferenced data sets within OSIS. This system stores metadata - beyond those of the DSHIP system - supplied by the researchers directly along with scientific data. Subsequent results may be added in the same context, as well as print publications related to the cruise or scientific measurements derived from this cruise. The GEOMAR library connects the publication repository with OSIS for overarching cruise output reporting. The metadata will be made publicly accessible immediately. The associated scientific data will be made freely available by the end of the project. Published data will be submitted to World Data Centers (WDC). The GEOMAR data management team will manage the data transfers to long-term archives in order to ensure the data availability.