To assure long-term availability of data sets collected during the Coordinated Eastern Arctic Experiment (CEAREX), and other relevant Eastern Arctic data, a CD-ROM is now being prepared for distribution to the Arctic research community. Titled "Eastern Arctic Ice, Ocean and Atmosphere Data, Volume 1," this disc is the first in a planned series that will contain CEAREX, MIZEX (Marginal Ice Zone Experiment) and other related data. Distribution is now scheduled for May 1991. Data sets for volume 1 include meteorology, hydrography, bio-optics, sampling positions, bathymetry, sea ice acceleration, sea ice stress, sea ice deformation, ambient noise and acoustics.
DATA MANAGEMENT FOR THE
COORDINATED EASTERN ARCTIC EXPERIMENT

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Arctic Programs, Code 1125AR

Contract N00014-90-J-1852

Annual Progress Report
1 April 1990 - 31 March 1991
Data Management for the
Coordinated Eastern Arctic Experiment

GOAL

The goal of this project is to assure long-term availability of the data sets collected during the Coordinated Eastern Arctic Experiment (CEAREX) and other relevant Eastern Arctic data, so that research is facilitated, leading to an enhanced understanding of Arctic processes.

OBJECTIVE

The overall objective of the first phase (year) of the project is to obtain the CEAREX data from investigators and format the data for mastering on a series of CD-ROM discs. The discs, distributed back to the investigators and to other interested researchers, become a "distributed archive" for the CEAREX data.

APPROACH

Discussions on potential standard or pre-existing data formats, especially for bio-optics, hydrography and bathymetry, were conducted with Naval Oceanographic Office and Naval Oceanographic and Atmospheric Research Laboratory, to insure final CEAREX data format compatibility with existing Navy requirements. Dialogue with CEAREX PIs conducted using Omnet/Sciencenet, to determine which data sets were appropriate and available for the first CD-ROM, scheduled for distribution to CEAREX in May 1991.

Data will be placed on the CD-ROM in ASCII format, to ensure maximum portability among existing computer platforms. There will be no executable software on the CD-ROM, although some source code to assist in reading some types of data will be provided by investigators and delivered on the CD-ROM.

ACCOMPLISHMENTS

All data sets for CD-ROM volume 1 have been provided to NSIDC as of 31 March 1991: meteorology, hydrography, bio-optics, sampling positions, bathymetry, sea ice acceleration, sea ice stress, sea ice deformation, bathymetry, ambient noise and acoustics. Data files are now being transferred from tape and diskette to the NSIDC computer system for final format checks. Review, editing and augmentation of documentation files is also in progress. Formatting of data and documentation files to fixed-length records, and production of output tapes for CD-ROM mastering, will be completed during April 1991.

PUBLICATIONS

The primary publication planned to result from this project is the CD-ROM scheduled for distribution in May 1991. Titled Eastern Arctic Ice, Ocean and Atmosphere Data, Volume 1, CEAREX-I, this disc is the first in a planned series of CD-ROMs that will contain CEAREX, MIZEX and other relevant sea ice, ocean and atmosphere data from the Eastern Arctic. In addition, a description of the project will be submitted to the journal Arctic Research of the United States, published by the Interagency Arctic Research Policy Committee (IARPC).