

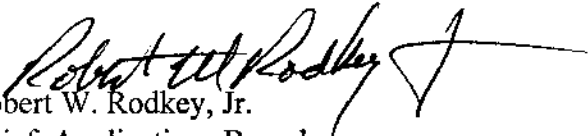


UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
National Geodetic Survey
Silver Spring, Maryland 20910-3282

October 04, 2001

MEMORANDUM FOR THE RECORD

FROM:


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SUBJECT:

Project Completion Report - AK01B; Resurrection Bay, AK

Introduction

Coastal Mapping Program (CMP) Project AK01B provides coastal zone mapping data of the Resurrection Bay, AK area from Aialik Cape in the southwestern corner northward to the town of Seward thence along the eastern shoreline of Resurrection Bay terminating at Cape Resurrection. Compilation efforts also included Cheval Island, Rugged Island, Hive Island, and Fox Island. The digital cartographic feature file may be utilized in support of the NOAA Nautical Charting Program (NCP) and coastal zone management activities.

Project Requirements

This project was designed per a request from the NOAA Hydrographic Surveys Program (HSD) for cartographic data in support of HSD operations. Based on an analysis of project requirements and results of a source data search, it was determined that CMP procedures for multiple source projects would apply for this project.

Field Operations

Routine CMP field operations did not apply for this project based on the origin of the project source data.

Aerotriangulation

Analytical aerotriangulation procedures were completed utilizing the appropriate modules of a suite of Autometrics Softplotter™ software with additional information provided with the source data files. The root mean square of the standard deviations of the residuals for each triangulated ground point were used in the computations of a predicted horizontal circular error of 8.0 meters at 95% confidence level, which is a predicted accuracy of well defined points.



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Compilation

The appropriate modules of Autometrics Softplotter™ software were utilized during the digital cartographic feature data compilation phase of project completion. Feature attributes were assigned utilizing the IDPF Cartographic Code File in adherence with the standard procedures of the CMP. The digital cartographic feature file (DCFF) was translated to attribution based on C-COAST specifications, which provides for the definition and attribution scheme for the suite of cartographic features germane to the CMP.

Final Review

Final office review operations were conducted interactively as the compilation phase was in progress, and independently upon initial completion of feature extraction. The process included review of aerotriangulation results, review of the identification and attribution of cartographic features based on image analysis and criteria defined in C-COAST, and review of client specific support products; such as the Chart Maintenance Print generated for NCP application. The entire suite of project products was evaluated for compliance to CMP requirements. The last step in the quality control process was the evaluation of the DCFF contents focusing on the integrity of topology once the DCFF was converted into shapefile format.

Project Products

The following specifies the location and identification of the products generated during the completion of this project:

Agency Archive:

- o Original Project Completion Report (Memorandum for the Record)

Applications Branch (RSD) Archive

- o Textual copy of the Project Completion Report (Memorandum for the Record)
- o Page size graphic plot of GC-10494 file contents

Remote Sensing Division Electronic Data Library

- o Project Data Base
- o 3-D MicroStation design File for GC-10494
- o Digital Cartographic Feature Files for GC-10494 in ESRI shapefile format

NOAA Shoreline Data Explorer

- o Digital Cartographic Feature Files for GC-10494
- o Metadata file for GC-10494