

GSC OPEN FILE REPORT

ATLANTIC GEOSCIENCE CENTRE

A 35mm MICROFILM COMPILATION OF COLLECTED ANALOG

GEOPHYSICAL DATA FOR AGC CRUISE NO. 83039

Bedford Basin, Nova Scotia

GSC Project 303067

Compiled by: A.G. Sherin, I.A. Hardy, S. Merchant, D.E. Beaver, D. Holt*, and M. Cash**

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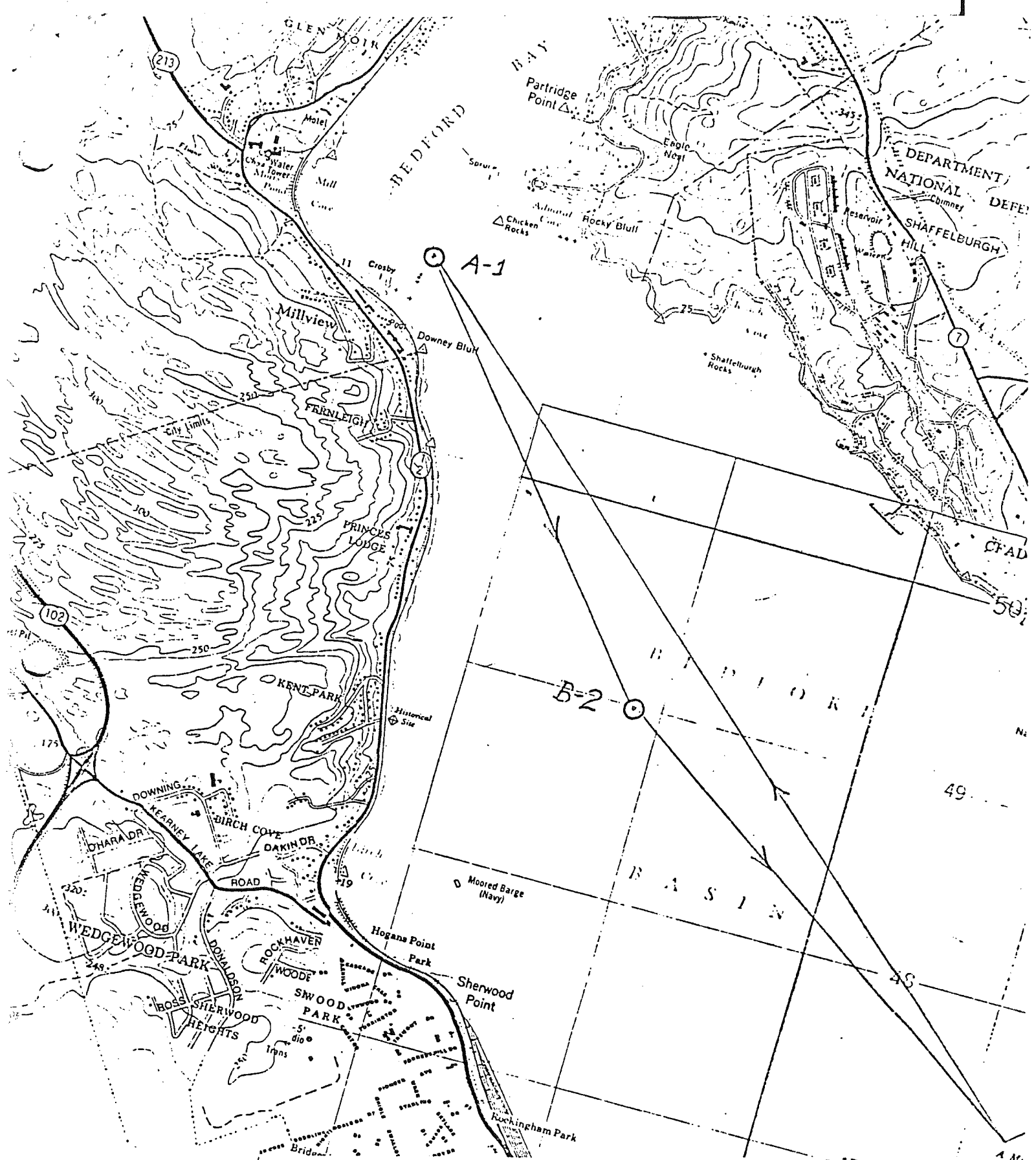
ABSTRACT

The Atlantic Geoscience Centre (AGC) at the Bedford Institute of Oceanography (BIO) has investigated several methods of releasing to the public sector its massive collection (of over 150,000 lineal metres) of underway geophysical records collected since 1963. The investigations and testing conducted by the Program Support Group, AGC in collaboration with the Public Archives of Canada indicated that the most cost-effective technique for distribution and for archiving such large volumes of irreplaceable data was to use microfilm. To maintain the continuous nature of these records which can be up to 30 metres in length, special equipment was required such as the Tameran 6000 continuous flow microfilm camera manufactured by Tameran Ltd. of Chagrin Falls, Ohio. All conversion of AGC's geophysical records using this camera was contracted to Manas Media Ltd. of Ottawa, in consortium with Precision Microfilming Services of Halifax and Archimed Ltd. of Montreal. Operational filming began at the end of March 1987.

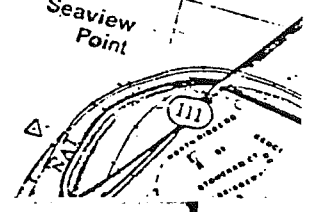
A series of AGC cruise data will be released in 35 mm microfilm and distributed as Geological Survey of Canada Open File reports during 1988. Master microfilm is curated for each AGC cruise at the National Archives, Dartmouth, Nova Scotia with duplicates available for viewing at the Data Management Section (PSS), Atlantic Geoscience Centre and at the Geological Survey of Canada libraries in Ottawa, Calgary and Vancouver.

INTRODUCTION

Data Section is a part of the Program Support Subdivision (PSS) of the Atlantic Geoscience Centre. This group provides the safe archiving and cataloguing of the Atlantic Geoscience Centre's Data Collections and Holdings. This report provides an index to all geophysical records collected during cruise 83039 (Figure 1).



TRACK CHART
 DAWSON 83-039



DATA SOURCES

The information gathered together for this geophysical record microfilming project have been mainly derived from cruise reports, Department of Fisheries and Oceans cruise summary documentation and external agencies. This information has then been checked and verified against record holdings e.g. collector and vessel, geographic area, Julian day together with start and end times of collection, line number, tape number and recorder type. The Record Inventory data base utilizing micro-computer based dBase III plus software contains all record/tape/log/navigation data for all analog tapes, catalogues/indices and records obtained on more than 375 cruises obtained by or for the Atlantic Geoscience Centre since 1963. All microfilmed records have been routinely filmed according to the flow chart in Appendix I.

CRUISE PARTICULARS

Cruise:	CSS Dawson 83039	
Senior Scientist:	K.S. Manchester - PSS, AGC	
Dates:	December 14, 1983	
Areas:	Bedford Basin, Halifax, Nova Scotia	
Scientific Staff:	G.A. Fowler	Atlantic Oceanographic Laboratory
	M. Gorveatt	Atlantic Geoscience Centre
	D.I. Ross	NORDCO
	L. Newhook	NORDCO
	W. Crocker	NORDCO
	J. Coombs	NORDCO
	D. Cook	NORDCO
	R. Terry	NORDCO
	G. Chauvin	AMI

R. Hall

Dalhousie University

P. Gayes

Dalhousie University

CRUISE OBJECTIVES

This was a test cruise for the NORDCO "Underwater Coring System" developed under an N.R.C. sponsored PILP project. Nearshore geological samples with associated high resolution seismic data for geological mapping using the new corer were also collected to support a Dalhousie University thesis project.

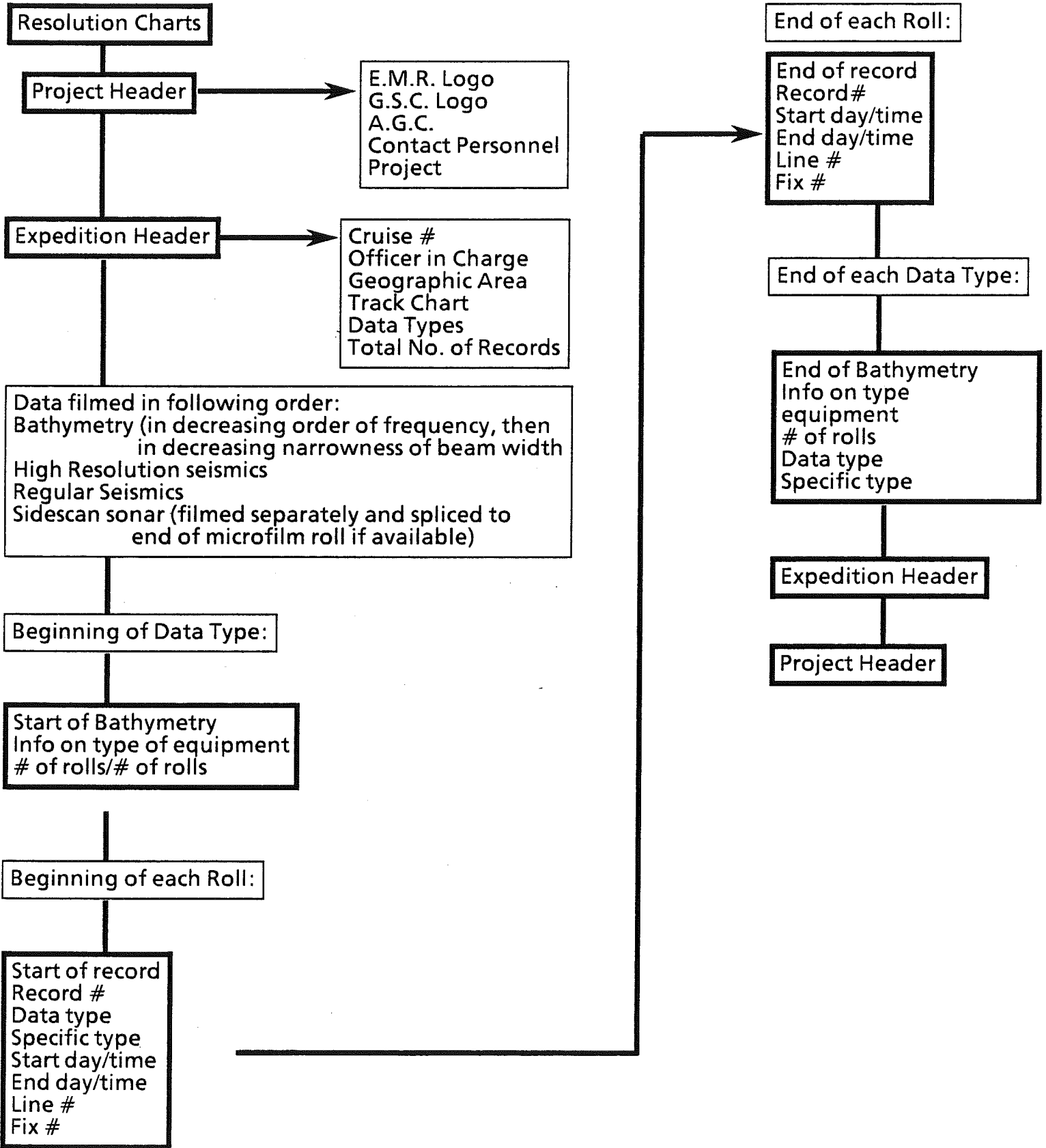
RECORD INVENTORY

Appendix II tabulates all geophysical records acquired during this cruise. They are listed in the same sequence as they appear on the microfilm. Corresponding footages are also given in centimetres for each tape. Note that no sidescan sonar shallow or deep water records were acquired.

MICROFILM REQUESTS

Requests for permission to examine original records should be directed to the Director, Atlantic Geoscience Centre, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, Canada, B2Y 4A2. Microfilm duplication requests can be directed to the Data Management (PSS), Atlantic Geoscience Centre, at the above address or phone (902) 426-3410.

APPENDIX I FLOW CHART



APPENDIX II
DAWSON 83039

BATHYMETRY

12 kHz Raytheon Universal Graphic Recorder.

Julian Day 348: One Bathymetry Record Only:

12 kHz bathymetry data in Bedford Basin from sites A-1 at 44°42.45'N, 63°39.55'W to site B-1 at 44°41.2'N, 63°38.8'W.

Tape # 55 Start 239 cm