GSC OPEN FILE REPORT

ATLANTIC GEOSCIENCE CENTRE

A 35mm MICROFILM COMPILATION OF COLLECTED BATHYMETRIC DATA FROM CRUISE 79015 (PHASE III)

Scotian Shelf

GSC Project 303067

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ABSTRACT

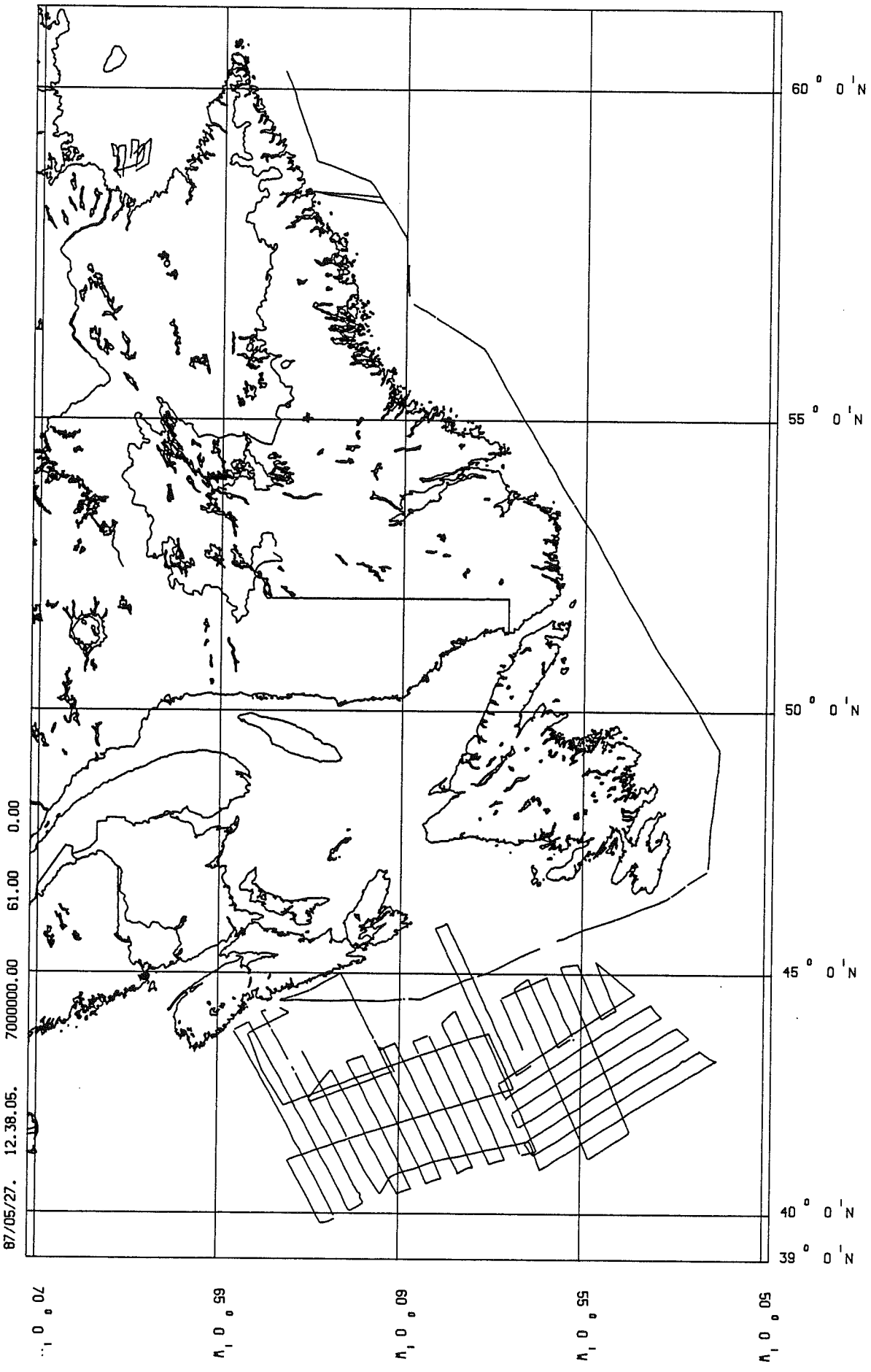
The Atlantic Geoscience Centre (AGC) at the Bedford Institute of Oceanography (BIO) has investigated several methods of releasing to the public sector its massive collection (of over 150,000 lineal metres) of underway geophysical records collected since 1963. The investigations and testing conducted 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 sueh 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 all 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 analog geophysical records collected during cruise 79015 (Phase III) (Figure 1). Magnetic and gravity data will be released at a later date.

79-015 C.S.S. BAFFIN



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 Baffin 79015 (Phase III)
Dates:	September 11 - October 31, 1979
Areas:	Scotian Shelf (was an alternate to Davis Strait survey as no positioning or navigation was available)
AGC Personnel:	Dr. A. Folinsbee AGC
	M.D. Hughes AGC

CRUISE OBJECTIVES

1. To run a gravity and magnetics tie line from Cape Chidley, Labrador to the Grand Banks of Newfoundland; and
2. To commence the multi-disciplinary survey of the Scotian Shelf project at a 20-mile line spacing overview (in the survey area, some 7675 nautical miles of gravity profiles, 9393 nautical miles of

magnetic profiles and 621 nautical miles of low frequency, towed transducer profiles were collected).

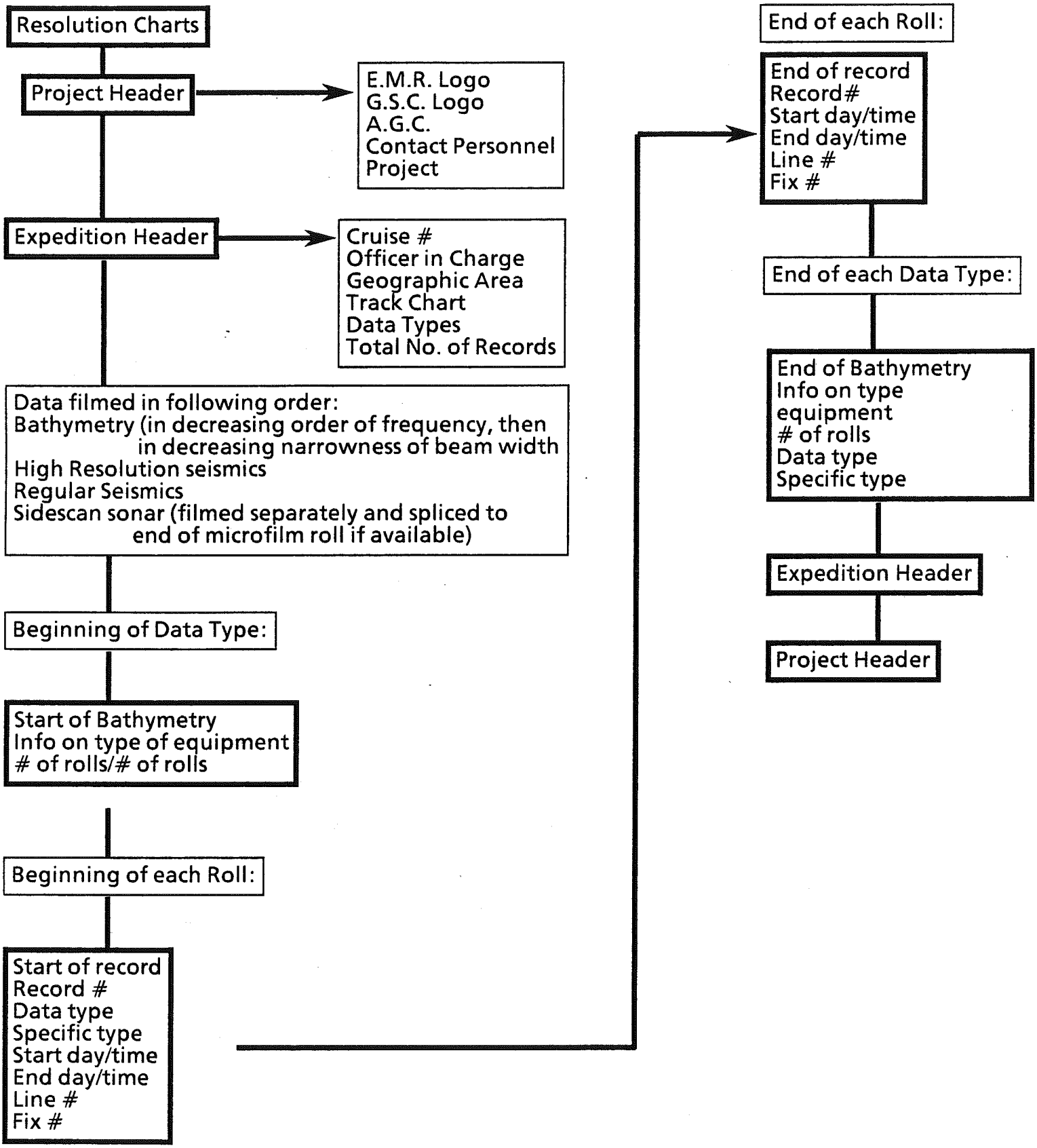
RECORD INVENTORY

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 per 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

BAFFIN 79015 (Phase III)

BATHYMETRY

12 kHz Raytheon System with RAM-Mounted Transducer

APPENDIX II (Continued)

79015

DATA TYPE	INSTRUMENT TYPE	RECORD NUMBER	START		STOP		MICROFILM FOOTAGE INDEX
			DAY	TIME	DAY	TIME	
Bathymetry	13.5/7 kHz	001	267	0300	267	2340	
		002	277	2030	281	0650	
		003	289	1220	289	1701	
		004	292	1545	299	1824	