

GSC OPEN FILE REPORT

ATLANTIC GEOSCIENCE CENTRE

A 35mm MICROFILM COMPILATION OF COLLECTED

BATHYMETRY DATA FROM CRUISE 77024

Labrador Sea, Davis Strait, Baffin Bay, Lancaster Sound

Jones Sound and Smith Sound, Eastern Arctic

GSC Project 303067

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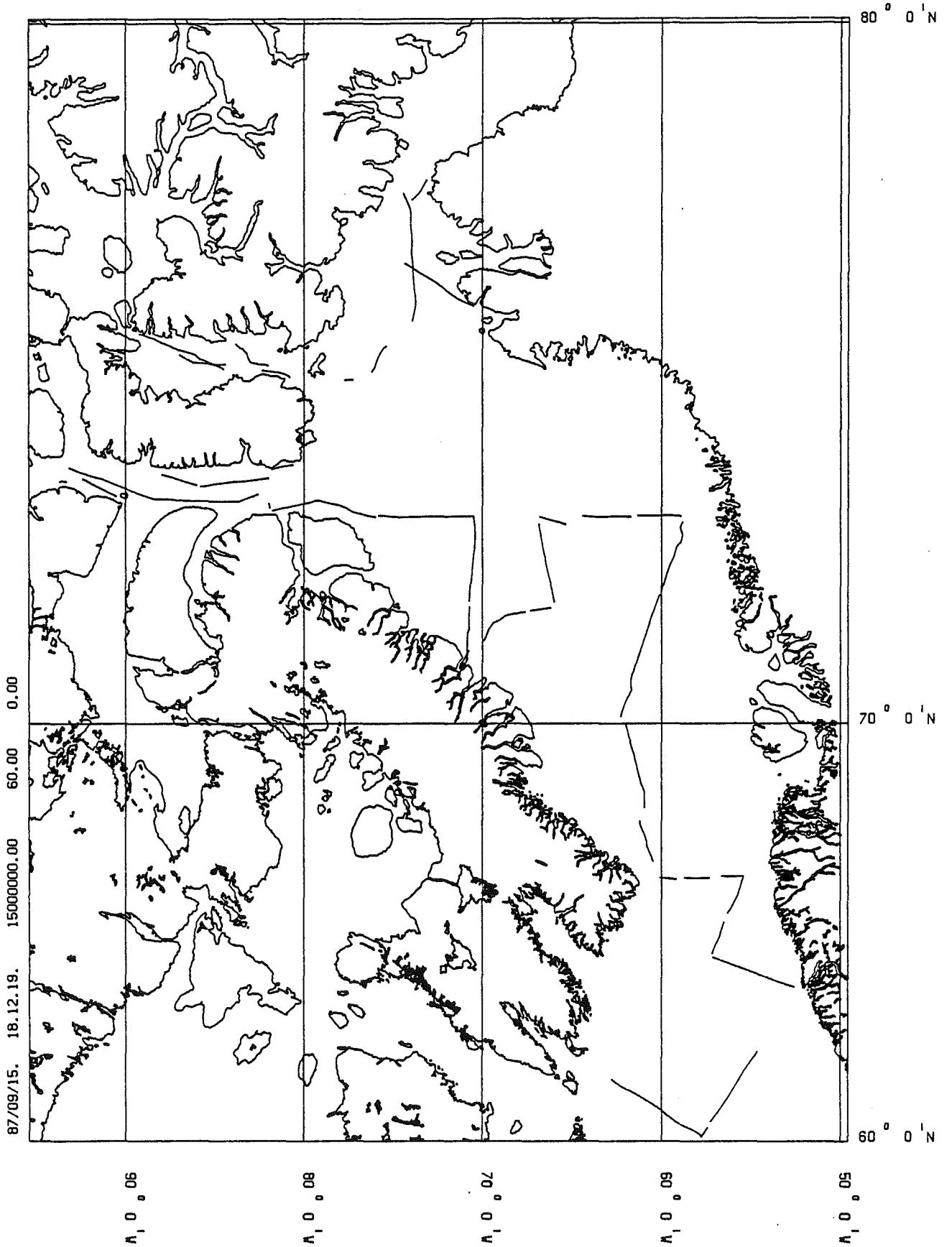
ABSTRACT

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 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 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 77024 (Figure 1). Magnetic and gravity data will be released at a later date.



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 Hudson 77024

Dates: August 22 - September 17, 1977

Areas: Labrador Sea, Davis Strait, Baffin Bay, Lancaster Sound, Jones Sound and
Smith Sound, Eastern Arctic

Scientific Staff:

J. Abriel	AOL
E. Banke	AOL
J. Barron	AOL
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C. Cunningham	AOL
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H.B. Nicholls	OAS
R. Harmes	AGC
M. Hughes	AGC
G. Martin	AGC
P. Dickie	MEL
M. Hodgson	MEL
R. Brown	CWS
R., Belanger	IF
R. Macnab	IF
W. Eismont	McMaster University
U. Lobsiger	Dalhousie University

CRUISE OBJECTIVES

The Atlantic Geoscience Centre participated on this cruise in order to obtain underway bathymetric, magnetic and gravity data. More than 5400 lineal kilometers were covered by profiles while the ship was underway between chemistry stations. A collection of grab samples at 20 chemistry stations in Baffin Bay were also obtained for C. Schafer, AGC. This chemistry cruise also provided an opportunity to gather data in several areas of interest particularly: Davis Strait, Lancaster and Jones Sounds, and northern Baffin Bay.

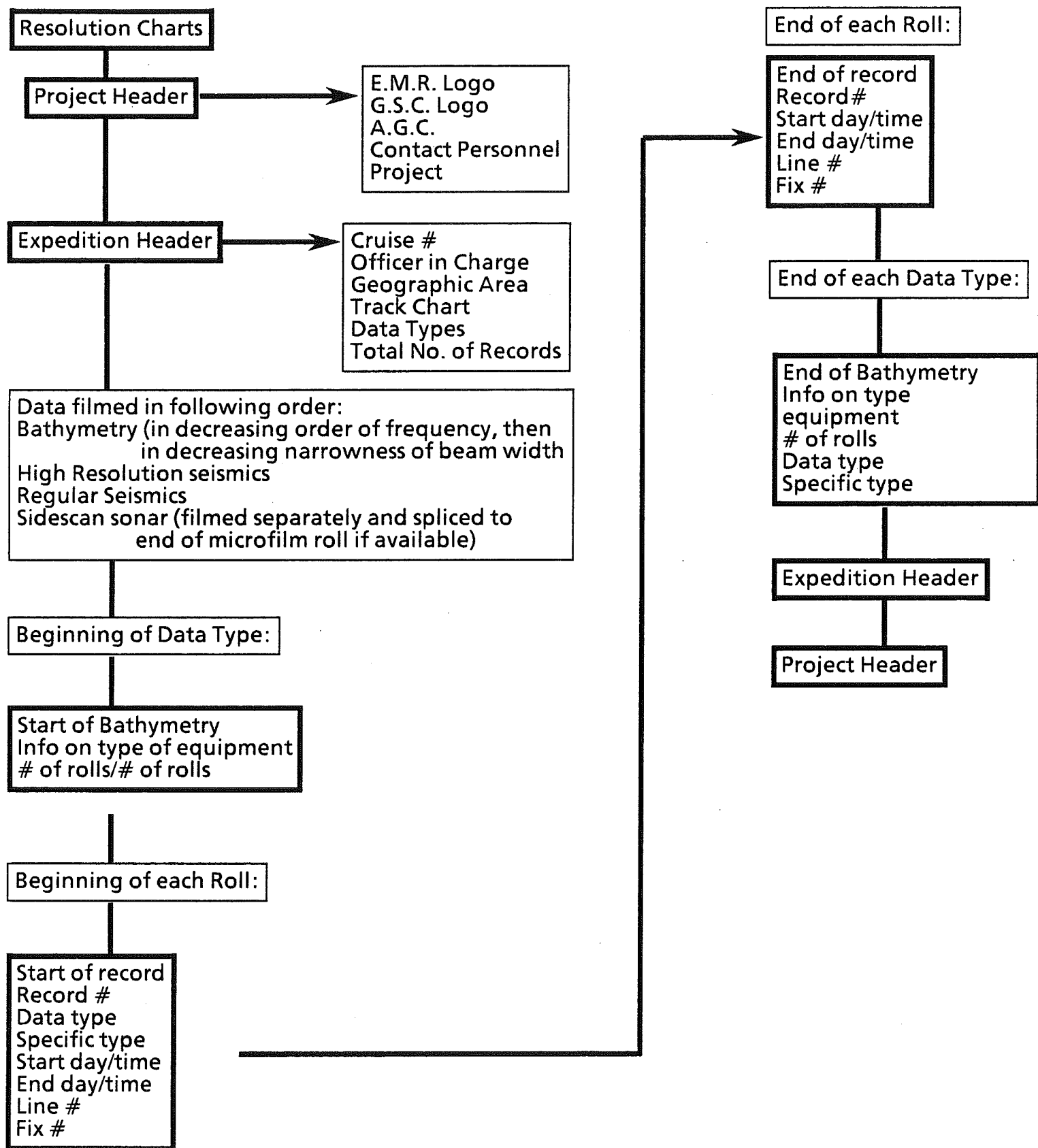
RECORD INVENTORY

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
HUDSON 77024

BATHYMETRY

12 kHz Raytheon Universal Graphic Recorder

APPENDIX II (Continued)
77024

DATA TYPE	INSTRUMENT TYPE	RECORD NUMBER	START		STOP		MICROFILM FOOTAGE INDEX
			DAY	TIME	DAY	TIME	
Bathymetry	12 kHz	001	236	0200	236	2135	345
		002	237	1007	237	2400	352
		003	238	0000	238	1000	358
		004	240	1640	240	2400	363
		005	241	0000	241	2400	367
		006	242	0000	242	1825	375
		007	243	1120	243	1605	380
		008	244	0135	244	1120	383
		009	245	0000	245	0630	387
		010	245	0720	245	2400	390
		011	246	0000	246	2042	396
		012	247	0750	247	1400	401
		013	248	0820	248	1645	404
		014	249	0600	249	2318	409
		015	250	0040	250	0510	415
		016	250	0545	250	2108	416
		017	251	0400	251	2400	422
		018	252	0000	252	1750	428
		019	253	0530	253	2250	436
		020	254	0000	254	2000	441
		021	255	0100	255	2400	447
		022	256	0010	256	1750	456
		023	257	0055	257	1535	460
		024	257	1550	257	2400	468
		025	258	0000	258	2239	471
		026	259	0150	259	1550	474