

**GSC OPEN FILE REPORT**

**ATLANTIC GEOSCIENCE CENTRE**

**A 35mm MICROFILM COMPILATION OF COLLECTED  
BATHYMETRIC AND SEISMIC DATA FROM CRUISE 80004  
Scotian Shelf**

**GSC Project 303067**

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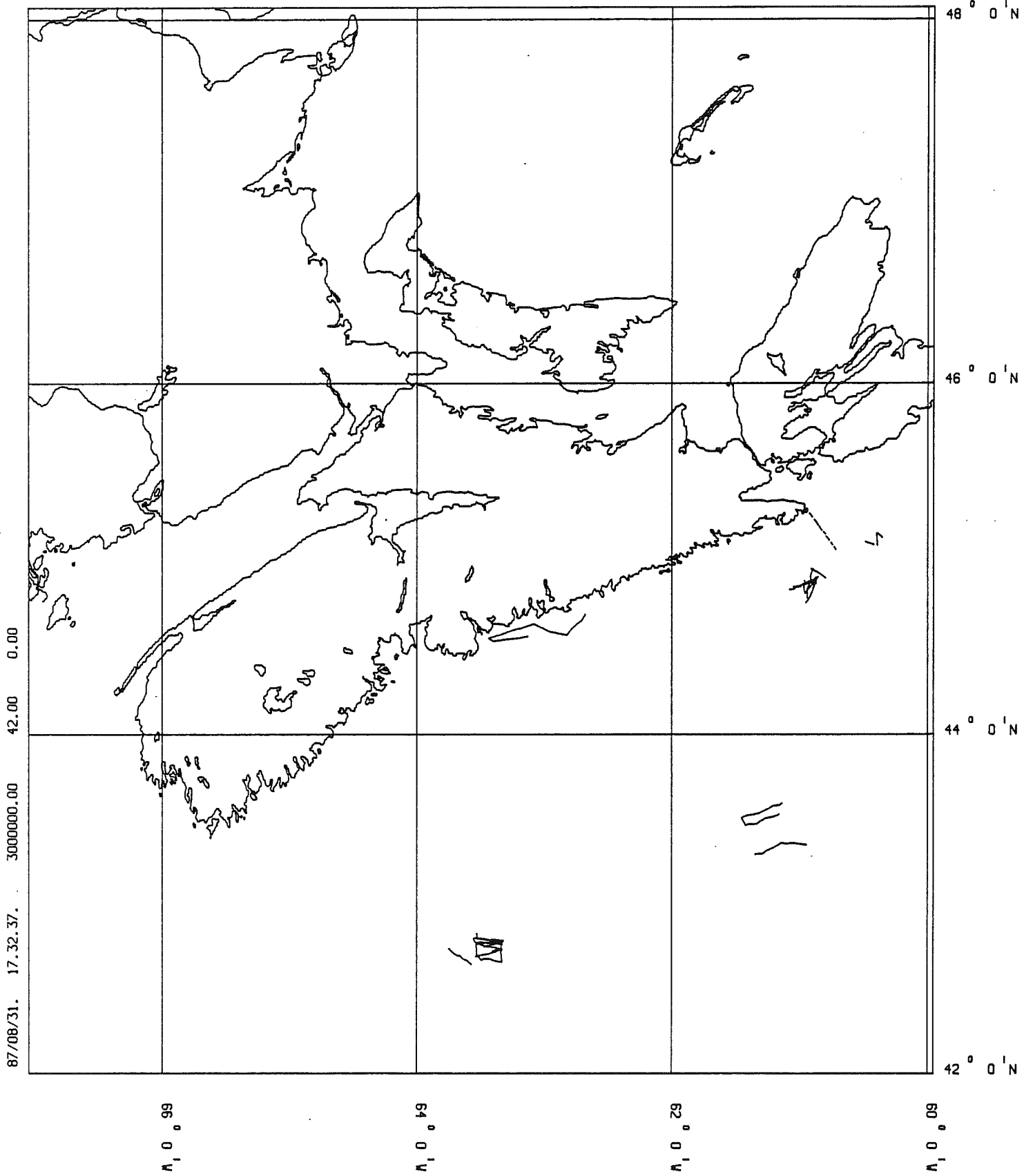
## ABSTRACT

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 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 80004 (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 Dawson 80004  
Dates: February 2 - March 7, 1980  
Areas: Scotian Shelf

### **No AGC Personnel Present**

Agencies: NSRF  
Dalhousie University

## CRUISE OBJECTIVES

1. Piston coring in Emerald Basin and Eastern Shelf Basin; and
2. Seismic and sidescan surveys on the shelf break in the Scotian Gulf to Western Bank area; vicinity of Osborne Head to Jeddore Point, Eastern Shelf Basin; Fanchu Head to Gabarus Bay; Country Harbour to Canso and in Chedabucto Bay (area of Cerebus Rock).

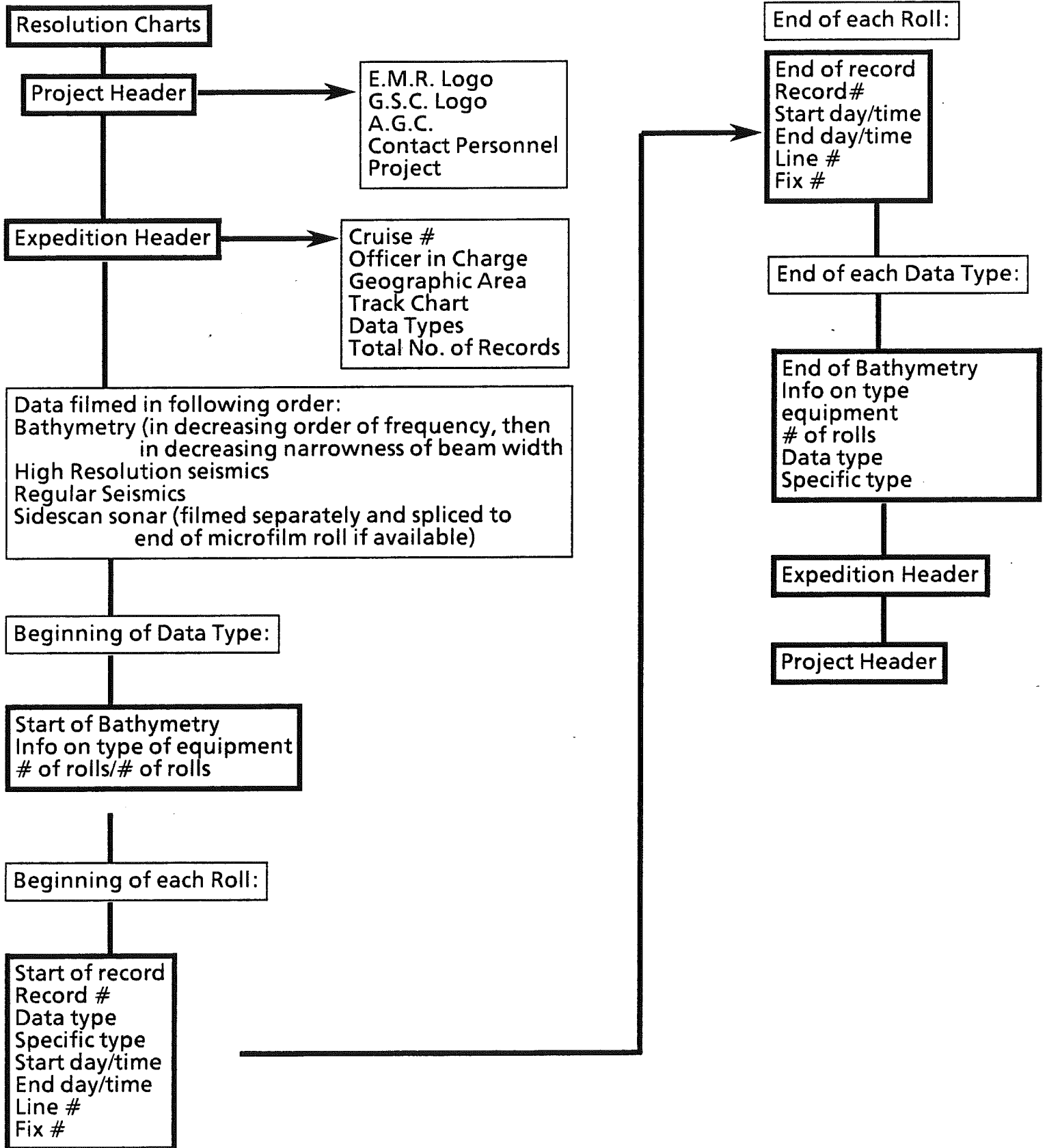
## RECORD INVENTORY

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 are curated at the Atlantic Geoscience Centre.

## 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 80004**

**BATHYMETRY**

12 kHz Raytheon Depth Sounder  
3.5 kHz Pinger Profiler

**SEISMICS**

V-Fin Continuous Seismic Profiler

**SIDECAN**

Klein Sidescan Sonar System

**APPENDIX II (Continued)**  
80004

DATA TYPE	INSTRUMENT TYPE	RECORD NUMBER	START		STOP		MICROFILM FOOTAGE INDEX
			DAY	TIME	DAY	TIME	
Bathymetry	12 kHz	001	057	1630	057	1835	305
		002	058	1730	060	2126	308
		003	062	1620	063	0110	320
		004	063	1100	064	1012	328
		005	064	1230	064	2105	343
		006	064	2125	064	2210	349
		007	065	0803	065	1125	352
		008	065	1210	065	1657	355
		009	066	0400	066	1015	358
		010	066	1137	066	2149	363
Seismic	V-Fin	001	059	0440	059	1300	369
		002	060	0230	060	0340	373
		003	060	0345	060	1235	375
		004	061	2150	062	0110	383
		005	063	1103	063	1745	386
		006	064	0626	064	1018	390
		007	065	0800	065	1125	395
		008	066	0710	066	1015	399
		009	066	0405	066	1015	402