

Curatorial Report Number 10

Nova Scotia Museum  
1747 Summer Street  
Halifax Nova Scotia Canada

**Marine  
Animals  
Collected  
During  
FRB  
Cruise 104  
1972**

By Derek S. Davis and John Gilhen  
January 1973

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NOVA SCOTIA MUSEUM

*Curatorial Reports*

The *Curatorial Reports* of the Nova Scotia Museum contain information on the collections and the preliminary results of research projects carried out under the program of the museum. The reports may be cited in publications but their manuscript status should be clearly indicated.

## INTRODUCTION

The program of the Nova Scotia Museum requires that a comprehensive reference collection of local marine animals be developed. Present facilities have permitted regular additions of intertidal and shallow water species, but not deep water, pelagic or planktonic species. Full development of the collection therefore involves cooperative work with institutions such as the Fisheries Research Board of Canada.

An invitation to museum staff to participate in Fisheries Research Board Cruise 104, aboard *E. E. Prince* in July-August 1972 was declined due to pressures from other programs at the museum. However, Dr. Paul Odense agreed to keep some samples of the invertebrates and fishes that were collected during the cruise. Samples were taken during the period July 31 to August 4 from stations on the continental shelf and in deep water off the continental slope. Data for the samples are given in Table 1 and the approximate positions of the stations are shown on the map, Fig. 1. Bottom samples on the continental shelf were obtained with an otter trawl using hauls of 60 minutes duration. Planktonic and pelagic samples were taken with a skid net which was operated for consecutive 10 minute periods at 150, 100 and 50 fathoms. Full details will be found on the individual lot catalogue cards and in the appropriate cruise 104 set sheets.

## GENERAL COMMENTS ON THE COLLECTION

In all, 47 lots were added to the museum collection, these being 27 of invertebrates and 20 of fishes. The 24 invertebrate species in the lots included planktonic, pelagic and benthic forms. Some 15 of the species were new to the collection, the most significant being the specimens of pycnogonida and the pelagic octopus, *Alloposus mollis*. Several of the species could not be identified. The 20 fish lots comprised 15 species including benthic forms from the continental shelf and mesopelagic species from deeper water. Nine species were new to the collection, these being Viperfish; *Chauliodus sloani*, Atlantic silver hatchet fish; *Argyropelecus aculeatus*, six species of lantern fish (Myctophidae) and Moustache sculpin, *Triglops murrayi*. Three lots of juvenile Myctophidae could not be identified.

The specimens are all useful additions to the Nova Scotia Museum collection.

## ACKNOWLEDGEMENTS

We would like to thank Dr. Paul Odense, Fisheries Research Board of Canada for collecting the samples and Dr. Don E. McAllister, Curator of Ichthyology, National Museum of Natural Sciences for determining most of the fish species.

## SYSTEMATIC LIST OF SPECIES

The samples were sorted into lots mostly containing a single species from a particular sample. Exceptions to this are the mixed plankton samples and possibly one of the samples of juvenile Myctophidae. Species are listed here in systematic order although not all have been fully identified. The number of specimens is given in parentheses after the Nova Scotia Museum accession number.

### COELENTERATA

#### SCYPHOZOA

Unidentified jellyfish (damaged) 1972-Z-786.4(1)

#### ANTHOZOA

Unidentified sea anemone 1972-Z-785.3(1)  
Unidentified sea anemone 1972-Z-785.2(1)  
*Chondractinia tuberculosa* (Verrill) 1972-Z-788.1(2)  
*Epizoanthus americanus* Verrill 1972-Z-789.2(2)

### MOLLUSCA

#### CEPHALOPODA

Unidentified squid 1972-Z-790.1(1)  
Unidentified squid 1972-Z-786.5(1)  
*Alloposus mollis* Verrill 1972-Z-780.3(1)

### ANNELIDA

#### POLYCHAETA

Unidentified Nereidae 1972-Z-785.9(3)  
*Nereis pelagica* (Linnaeus) 1972-Z-785.8(2)  
*Amphitrite affinis* Malmgren 1972-Z-785.10(5)

### ARTHROPODA

#### CRUSTACEA

Unsorted planktonic crustacea 1972-Z-780.4(η), 1972-Z-781.5(η)  
Unsorted copepoda 1972-Z-779.7(η), 1972-Z-786.2(80)  
Unidentified Mysidacea 1972-Z-786.1(37)  
Unidentified Amphipoda 1972-Z-780.6(1)  
*Pandalus borealis* (Kröyer) 1972-Z-780.5(1), 1972-Z-786.3(1)  
*Pagurus pubescens* Kröyer 1972-Z-789.1(1)  
*Nyas coarctatus* Leach 1972-Z-785.4(1)

PYCNOGONIDA

Unidentified pycnogonida 1972-Z-787.1(2)

CHAETOGNATHA

*Sagitta* sp. 1972-Z-781.4(3)

ECHINODERMATA

HOLOTHUROIDEA

Unidentified cucumariidae (damaged) 1972-Z-789.3(1)

ECHINOIDEA

*Strongylocentrotus dröbachiensis* (O. F. Müller) 1972-Z-785.5(2)

ASTEROIDEA

*Ctenodiscus crispatus* (Retzius) 1972-Z-785.6(1)

OPHIUROIDEA

*Ophiopholis aculeata* (Linné) 1972-Z-785.7(12)

CHORDATA

PISCES

Unidentified fish (isolated central nervous system) 1972-Z-787.2(1)

*Myxine glutinosa* Linnaeus 1972-Z-784.1(2)

*Nemichthys scolopaceus* Richardson 1972-Z-780.1(1)

*Chauliodus sloani* Bloch and Schneider 1972-Z-779.1(2)

*Argyropelecus aculeatus* Cuvier and Valenciennes 1972-Z-779.2(1)

Unidentified juvenile Myctophidae 1972-Z-780.7(3), 1972-Z-782.2(1)

1972-Z-786.6(1)

*Ceratoscopelus maderensis* (Lowe) 1972-Z-779.5(3), 1972-Z-780.2(2),

1972-Z-781.1(5), 1972-Z-782.1(2)

*Gonichthys coccoi* (Cocco) 1972-Z-779.3(1)

*Hygophum hygomi* 1972-Z-779.4(2)

*Diaphus* sp. 1972-Z-779.6(3)

*Myctophum punctatum* Rafinesque 1972-Z-781.2(1)

*Symbolophorus veranyi* (Moreau) 1972-Z-781.3(1)

*Melanogrammus aeglefinus* (Linnaeus) 1972-Z-785.1(1)

*Macrozoarces americanus* (Bloch and Schneider) 1972-Z-783.1(1)

*Triglops murrayi* Günther 1972-Z-783.2(1)

Table 1. Lots of specimens accessioned from samples collected on FRB cruise 104, July 31 to August 4, 1972. The data are taken from the cruise set sheets.

NSM Accession No.	FRB Set No.	Date	Latitude	Longitude	Depth (fathoms)	Gear Used	Number of lots	
							Inverts.	fish
1972-Z-779	6	July 31	42°48'00"N.	62°30'00"W.	150	skid net	1	6
1972-Z-780	7	July 31	42°46'00"N.	62°31'30"W.	150	skid net	4	3
1972-Z-781	3	Aug. 1	42°24'20"N.	64°38'00"W.	150	skid net	2	3
1972-Z-782	4	Aug. 1	42°23'00"N.	64°40'20"W.	150	skid net	-	2
1972-Z-783	34	Aug. 4	44°21'00"N.	63°22'00"W.	60	otter trawl	-	2
1972-Z-784	12	Aug. 1	42°45'15"N.	64°16'00"W.	65-69	otter trawl	-	1
1972-Z-785	10	Aug. 1	42°51'00"N.	63°50'45"W.	72-88	otter trawl	9	1
1972-Z-786	2	Aug. 1	42°23'00"N.	64°40'20"W.	150	skid net	5	1
1972-Z-787	18	Aug. 2	42°18'00"N.	65°44'30"W.	88-102	otter trawl	1	1
1972-Z-788	11	Aug. 1	42°50'00"N.	63°56'00"W.	74-75	otter trawl	1	-
1972-Z-789	4	July 31	43°26'30"N.	62°20'30"W.	42-49	otter trawl	3	-
1972-Z-790	1	July 31	42°48'00"N.	62°30'00"W.	150	skid net	1	-

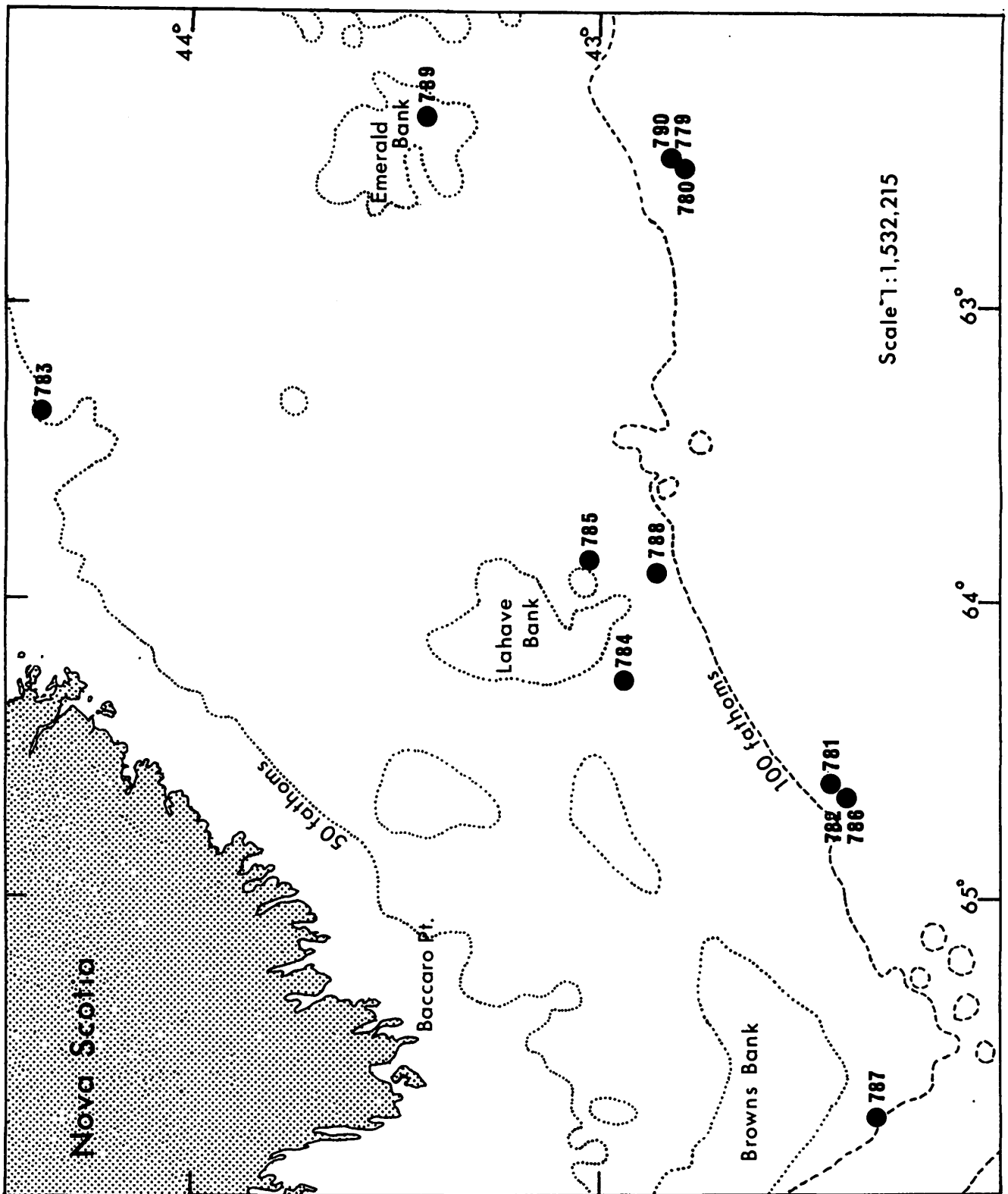


Fig. 1. Approximate positions of sampling stations of Fisheries Research Board cruise 104, July - August, 1972, from which specimens were obtained for the Nova Scotia Museum collection. The numbers are the Nova Scotia Museum accession numbers (1972-Z) for each sample. Based upon United States Navy, Hydrographic Service Chart No. 6610.