

RESEARCH VESSEL CRUISES, 1948-1962
NATIONAL MARINE FISHERIES SERVICE
WOODS HOLE, MASSACHUSETTS

by

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The research vessel ALBATROSS III arrived in Woods Hole, Massachusetts, in 1948 (Royce 1948) and conducted 128 cruises before being taken out of service in the spring of 1959. The research vessel DELAWARE I, whose home port was Gloucester, Massachusetts, was used between 1959 and 1963 until the new ALBATROSS IV arrived at Woods Hole. Additional cruises were made by charter vessels. This report covers the period from 1948 to 1962. It is a companion report to Laboratory Reference No. 76-14 (Flescher 1976) which described the first 13 years (1963-1975) of research cruises following the acquisition of the ALBATROSS IV.

This report lists the cruises in a format which allows the reader readily to find those that involved a specific species, gear, etc. The information was obtained primarily from sailing orders and cruise reports. The format is fairly straightforward, but the choices under some of the titles are explained as follows:

Cruise Purpose

Survey. This column is used when the cruise objective is assessing the population of a particular species or community.

Gear. This column is used when the cruise objective is the development, testing, or catch comparison of equipment.

Other. This column is used when the cruise objective is neither of the above.

To aid the reader in finding all the cruises related to a specialized topic, the following summary gives all the words used in the list under Cruise Purpose:

<u>Survey</u>	<u>Gear</u>	<u>Other</u>
Benthos	Benthos	Buoy recovery
Bottom trawl	Bottom trawl	Demonstration
Hydrographic	Dredge	Fish school
Midwater trawl	Fish refrigeration	Photography
Plankton	Grab	Samples
Pollution	Hydrographic	SCUBA
Scattering layer	Oceanographic equipment	Shakedown
Vertical distribution	Odometer	Shipyard
(Single species:)	Plankton	Tagging
Haddock	Underwater camera	
Herring	(= still pictures)	
Red crab	Underwater TV	
Redfish	(= moving pictures)	
Scallop		
Silver hake		

Gear Name

This column gives gear used during a cruise at 50% or more (as interpreted from cruise reports) of the stations. Gear that was used relatively little may be listed here when cruise reports give the names of gear, but no information on the relative frequency of their use. To aid the reader, the following is a summary of all the words used in the list under Gear Name:

Benthos

1. Dredges

Digby dredge (30-inch wide opening)
Digby dredge, modified
Naturalist's dredge (1-m wide opening)
Quahog dredge, mud type (48-inch wide x 8-inch deep blade)
Quahog dredge, rocker type (40-inch wide blade)
Scallop dredge 9 (9-ft wide opening)
Scallop dredge 10 (10-ft wide opening; the standard survey dredge)
Scallop dredge 11 (11-ft wide opening)

2. Grabs

Dietz-Lafond grab (about 165-cm² area sampled)
Orange peel grab
Peterson grab
Smith-McIntyre grab (0.1-m² area sampled)
Van Veen grab (0.2-m² area sampled)

3. Other Benthos

Bottom skimmer (sled with a 6-cm wide x 3-cm deep blade)
Digby scoop
Dipnet
Gravity corer (collects a cylindrical sample that is 1.375-inch diameter x 2 ft long)
Metered roller (experimental odometer)
1-m plankton, sled (1-m diameter, cone-shaped plankton net, mounted on a sled)
1-m plankton, sled, closing (1-m diameter, cone-shaped plankton net, mounted on a sled, self-closing)
1-m plankton, sled, stramin (1-m, cone-shaped plankton net, stramin "burlap" mesh)
Scoopfish (collects a cylindrical sample that is 41-mm diameter x 55-mm long)
Tangle (towed moplike device that entangles organisms)

Bottom Trawls

The area fished by a bottom trawl varies with how it is used. For example, vessel speed and type of net rigging are two of the variables. However, an indication of relative net size can be obtained from the length of the headrope and footrope. This information is given, when available, as head-rope length/footrope length.

Balloon 41 (a high-opening Yankee 41)
Breidfjord floating trawl (see Krason 1949)
Census net
Double trouser trawl (1½ Iceland trawl with four cod ends)

1½ Iceland (76 ft/116 ft, diagrammed in Powell [1950], page 2. It contained 1½-inch mesh liner in the cod end and belly, hence the "1½" in its name. The standard Iceland trawl, a slightly different trawl, is completely described in Knake [1956].)

Industrial fishery flat net (a net for flounder. A flat net is described in Bruce [1967], page 20. According to Fred Lux, the vessel T-79 used a flat net that was much smaller than the one described in Bruce [1967].)

OTS (otter trawl, small)

Shrimp trawl

40-ft gulf shrimp trawl (40-ft footrope)

60-ft shrimp trawl (60-ft footrope. A similar net is described by Bruce [1967], page 21.)

Yankee 36 (60 ft/80 ft. Described by Bruce [1967], page 15.)

Yankee 41 (79 ft/100 ft. Described by Bruce [1967], page 5.)

Whiting trawl (82 ft/104 ft. Described by Bruce [1967], page 18.)

45-ft/65-ft trawl

Hydrographic

Bigelow sampler

Nansen bottles

Spilhaus-Miller sampler (rosette of small water bottles on a mechanical bathythermograph, described in Spilhaus and Miller [1948].)

STD (salinity-temperature-depth profile recorder)

Note: Bathythermograph recordings were obtained on all survey cruises; this is not listed under gear name.

Midwater Trawls

Isaacs-Kidd 10 (trawl having a 10-ft wide V-shaped depressing vane.

Described in King and Iverson [1962], page 271.)

M&M (experimental four-seam net made from Yankee 41 sections by the Bureau of Commercial Fisheries Exploratory Fishing and Gear Research Base in Gloucester, Massachusetts)

Petersen trawl (small trawl used until the development of the Isaacs-Kidd)

Plankton Nets and Gear

Bottom plankton trawl

CPR (Hardy continuous plankton recorder, described in Hardy [1936])

Hensen egg net (73-cm diameter opening, truncated cone, shown in Sverdrup, Johnson, and Fleming [1942], p. 379, Fig. 91)

Miller (4-inch diameter opening, high-speed sampler, described in Miller [1961])

Multiplane kite otter depressor (60-lb net depressor, described in Colton [1959])

1-m plankton (1-m diameter opening, cone-shaped plankton net)

1-m plankton, closing (1-m diameter opening, cone-shaped, self-closing plankton net)

Other Gear

CPS Emitron camera
Image Orthicon TV (described in Clark et al. [1959])
Live cages
Longline
Loran
Robot 35-mm camera
Underwater camera A-5

Organisms Sought

One or two species or one stage of their life cycle are most often of major interest during a cruise. The following is a list of all words used under Organisms Sought:

Major Species

Butterfish
Cod
Haddock
Herring
Industrial fish
Offshore hake
Red crab
Redfish
Scallop
Silver hake
Skates
Summer flounder
Yellowtail flounder

Life Stage

Adult
Eggs
Larvae
1 year +
Postlarvae
Young
Y-0-Y (young of the year)

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VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1948-									
ALBATROSS III	1	19 May-22 May	W. Royce	Pollution			1½ Iceland Underwater camera A-5 Bigelow sampler Nansen bottles Orange peel grab		
ALBATROSS III	2	25 May-27 May	W. Royce			Tagging		Yellowtail flounder	
ALBATROSS III	3	07 Jun-10 Jun	J. Webster		Bot trawl	Tagging	1½ Iceland with savings cod end	Yellowtail flounder Haddock	
ALBATROSS III	4	21 Jun-27 Jun	J. Webster		Bot trawl	Tagging	1½ Iceland with savings cod end	Haddock	
ALBATROSS III	5	13 Jul-21 Jul	W. Royce	Bot trawl			1½ Iceland	All	
ALBATROSS III	6	03 Aug-07 Aug	W. Royce	Bot trawl	Oceanographic equipment		1½ Iceland	All	
ALBATROSS III	7	17 Aug-25 Aug	J. Webster	Bot trawl			1½ Iceland	All	
ALBATROSS III	8	01 Sep-01 Sep				Demonstration			
ALBATROSS III	9	09 Sep-11 Sep	J. Webster	Bot trawl			1½ Iceland	All	
ALBATROSS III	10	29 Sep-05 Oct	J. Webster	Bot trawl	Fish refrigeration		1½ Iceland	All	
ALBATROSS III	11	14 Oct-19 Oct	J. Webster	Bot trawl	Fish refrigeration		1½ Iceland	All	
ALBATROSS III	12	28 Oct-06 Nov	W. Royce	Bot trawl Pollution Hydrographic			1½ Iceland Spilhaus-Miller sampler Robot 35-mm camera	All	
ALBATROSS III	13	18 Nov-19 Nov	L. Stringer		Bot trawl		Double trouser trawl		
ALBATROSS III	14	01 Dec-09 Dec	J. Webster	Bot trawl			1½ Iceland	All	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1949-									
ALBATROSS III	15	10 Jan-13 Jan	L. Stringer		Bot trawl		Double trouser trawl		
ALBATROSS III	16	17 Jan-19 Jan	L. Stringer		Bot trawl		Double trouser trawl		
ALBATROSS III	17	28 Feb-28 Feb	W. Royce		Bot trawl		Census net		
ALBATROSS III		March-April		Vessel laid up due to lack of funds.					
ALBATROSS III	18	17 May-21 May	W. Royce	Hydrographic			Spilhaus-Miller sampler Nansen bottles		
ALBATROSS III	19	24 May-04 Jun	R. Buller	Hydrographic Bot trawl			Spilhaus-Miller sampler Nansen bottles 1½ Iceland		
ALBATROSS III	20	07 Jun-07 Jun	W. Royce			Demonstration			
ALBATROSS III	21	08 Jun-12 Jun	W. Royce	Bot trawl				All	
ALBATROSS III	22	13 Jun-16 Jun	W. Royce	Bot trawl Hydrographic			1½ Iceland	All	
ALBATROSS III	23	23 Jun-29 Jun	H. Schuck		Bot trawl	Tagging	1½ Iceland with savings cod end	Haddock	
ALBATROSS III	24	11 Jul-19 Jul	L. Stringer		Bot trawl Underwater camera		1½ Iceland with savings cod end	Haddock	
ALBATROSS III	25	21 Jul-21 Jul	W. Royce			Demonstration			
ALBATROSS III	26	27 Jul-05 Aug	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	27	11 Aug-19 Aug	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	28	07 Sep-16 Sep	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	29	23 Sep-29 Sep	L. Stringer		Bot trawl		Bot trawl with 4 mesh sizes		
ALBATROSS III		October-December		Vessel laid up due to lack of funds.					

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1950-									
ALBATROSS III	30	04 Jan-13 Jan	W. Royce	Hydrographic			STD Nansen bottles		
ALBATROSS III	31A	16 Jan-24 Jan	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	31B	27 Jan-02 Feb	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	31C	06 Feb-12 Feb	E. Arnold	Bot trawl			1½ Iceland	All	
ALBATROSS III	31D	16 Feb-20 Feb	E. Arnold	Bot trawl			1½ Iceland	All	
ALBATROSS III	32	25 Feb-06 Mar	E. Arnold	Hydrographic			Spilhaus-Miller sampler Nansen bottles STD		
ALBATROSS III	33A	15 Mar-30 Mar	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	33B	18 Apr-25 Apr	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	34	25 Apr-05 May	W. Royce	Bot trawl			1½ Iceland	All	
ALBATROSS III	35	11 May-19 May	W. Schroeder	Bot trawl			1½ Iceland	Summer flounder Yellowtail flounder	
ALBATROSS III	36	06 Jun-23 Jun	J. Colton	Multiple-ship Gulf Stream survey (Operation CABOT)			Loran Nansen bottles		
ALBATROSS III	37	06 Jul-12 Jul	W. Royce	Bot trawl			1½ Iceland	All	
ALBATROSS III	37A	31 Jul-10 Aug	R. Buller	Bot trawl			1½ Iceland	All	
ALBATROSS III	38	21 Aug-30 Aug	R. Buller	Bot trawl		Samples	1½ Iceland	All	
ALBATROSS III	39	06 Sep-13 Sep	H. Schuck			Tagging	1½ Iceland	Haddock	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1951-									
ALBATROSS III	40-44	09 Feb 1951 to Feb 1953		Operating under ONR contract to WHOI (JEZEBEL program #8961).					
DELAWARE I	2*	19 Aug-24 Aug	J. Colton	Bot trawl			1½ Iceland	All	
DELAWARE I	3*	31 Aug-04 Sep	C. Taylor	Bot trawl			1½ Iceland	All	
*A portion of these cruises was for fishery biology. All information above applies to the fishery biology portion.									
-1952-									
WE THREE		06 May-06 May	G. Kelly	Redfish			Bot trawl	Redfish	
MICHIGAN		04 Jun-12 Jun	J. Clark		Bot trawl		Yankee 41 with savings cod end	Haddock	
MICHIGAN		15 Jun-23 Jun	J. Clark		Bot trawl		Yankee 41 with savings cod end	Haddock	
US FISH & WILDL. LAUNCH (26')		10 Sep-12 Sep	G. Kelly	Redfish			Petersen trawl	Redfish	
CARYN (WHOI)		02 Oct-03 Oct	G. Kelly	Redfish Scattering layer			Bot trawl with fine mesh	Redfish Young	
WISCONSIN		14 Oct-23 Oct	J. Clark		Bot trawl		Yankee 41 with savings cod end	Haddock	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1953-									
ALBATROSS III	45	03 Mar-11 Mar	G. Kelly	Redfish			Yankee 41	Redfish	Young
ALBATROSS III	46	19 Mar-02 Apr	J. Colton	Haddock Hydrographic			CPR STD	Haddock	Eggs Larvae
ALBATROSS III	47A	09 Apr-13 Apr	C. Taylor			Fish school	Bot trawl	Haddock	
ALBATROSS III	47B	15 Apr-21 Apr	C. Taylor			Fish school	Bot trawl	Haddock	
ALBATROSS III	48	24 Apr-08 May	J. Colton	Haddock Hydrographic			CPR STD	Haddock	Eggs Larvae
ALBATROSS III	49	14 May-21 May	J. Clark			Bot trawl	Yankee 41 with various mesh sizes	Haddock	
ALBATROSS III	50	25 May-03 Jun	J. Colton	Haddock Hydrographic			CPR STD	Haddock	Eggs Larvae
ALBATROSS III	51	08 Jun-17 Jun	J. Clark			Bot trawl	Bot trawl with covered and uncovered cod ends	Haddock Redfish	Young Young
CAP'N BILL		10 Jul-17 Jul	W. Schroeder (WHOI) R. Wolf (Fisheries)	Bot trawl (deep water)			60' shrimp trawl		
ALBATROSS III	52	20 Jul-29 Jul	J. Clark			Bot trawl	Bot trawl with covered and uncovered sections	Haddock	
ALBATROSS III	53	10 Aug-21 Aug	G. Kelly	Redfish			Yankee 41	Redfish	
ALBATROSS III	54	01 Sep-14 Sep	J. Colton	Haddock			Yankee 36	Haddock	Y-0-Y
ALBATROSS III	55	22 Sep-25 Sep	J. Colton	Haddock			Yankee 36	Haddock	Y-0-Y
ALBATROSS III		September 1953 to January 1955		Vessel laid up due to lack of funds.					
PRISCILLA V	1	09 Nov-11 Nov	G. Kelly	Redfish				Redfish	Y-0-Y

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1954-									
PRISCILLA V	2	05 Feb-08 Feb	G. Kelly	Redfish				Redfish	Y-0-Y
PRISCILLA V	3	20 Apr-23 Apr	G. Kelly	Redfish				Redfish	Y-0-Y
PRISCILLA V	4	03 Aug-10 Aug	G. Kelly	Redfish				Redfish	Y-0-Y
PRISCILLA V	5	13 Sep-02 Nov	J. Clark		Bot trawl		Bot trawl with various mesh sizes	Silver hake	
PRISCILLA V	6	17 Nov-23 Nov	J. Clark		Bot trawl		Bot trawl with various mesh sizes	Redfish	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1955-									
ALBATROSS III	56	01 Feb-13 Feb	J. Clark	Bot trawl			Yankee 36	All	
ALBATROSS III	57	21 Feb-09 Mar	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	58	19 Mar-01 Apr	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	59	06 Apr-12 Apr	J. Clark		Bot trawl		Yankee 41 with various mesh sizes	Haddock	
ALBATROSS III	60	19 Apr-03 May	R. Marak	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	61	16 May-28 May	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	62	06 Jun-18 Jun	J. Wise	Bot trawl			Yankee 36	All	
ALBATROSS III	63	15 Aug-19 Aug	G. Kelly	Redfish			Yankee 41	Redfish	
ALBATROSS III	64	23 Aug-02 Sep	J. Clark		Bot trawl		Yankee 41 with various mesh sizes	Redfish	Adult
ALBATROSS III	65	07 Sep-16 Sep	J. Colton	Haddock Silver hake			Yankee 36	Haddock Silver hake	
ALBATROSS III	66	21 Sep-28 Sep	J. Colton	Haddock Silver hake			Yankee 36	Haddock Silver hake	
ALBATROSS III	67	03 Oct-05 Oct	R. Wigley		Grab		Van Veen grab Petersen grab 1-m plankton, sled Quahog dredge, rocker Quahog dredge, mud Digby dredge		
ALBATROSS III	68	12 Oct-05 Nov	J. Clark		Bot trawl		Yankee 41 with covered and uncovered cod ends		
DELAWARE I	11	13 Oct-05 Nov	J. Murray		Bot trawl		Yankee 41 with covered and uncovered cod ends		

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE		GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR		OTHER	MAJOR SPECIES
-1955- (continued)								
ALBATROSS III	69	15 Nov-23 Nov	R. Wigley	Benthos			Van Veen grab Digby dredge Quahog dredge, mud 1-m plankton, sled, stramin Petersen grab Tangle	
ALBATROSS III	70	06 Dec-19 Dec	R. Wigley	Benthos Scallop		Tagging	Digby dredge Modified Digby dredge 1-m plankton, sled, stramin Tangle Digby scoop	

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				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1956-									
ALBATROSS III		21 Jan-15 Feb				Shipyards			
ALBATROSS III	71	20 Feb-02 Mar	R. Marak	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	72	21 Mar-31 Mar	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	73	17 Apr-28 Apr	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
ALBATROSS III	74	02 May-10 May	J. Clark		Bot trawl		Yankee 41 with various mesh sizes	Haddock	
ALBATROSS III	75	16 May-29 May	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
T-79	1	25 May-27 May	J. Clark			Shakedown Tagging	Longline	Haddock	
ALBATROSS III	76	11 Jun-24 Jun	R. Marak	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
T-79	2-I II III	28 Jun-02 Jul 04 Jul-09 Jul 10 Jul-14 Jul	J. Clark J. Wise A. Jensen			Tagging	Longline	Haddock Cod	
ALBATROSS III	77	05 Jul-11 Jul	J. Posgay	Scallop		Tagging	Scallop dredge 11	Scallop	
ALBATROSS III	78	16 Jul-17 Jul	J. Clark		Underwater TV		Image Orthicon		
ALBATROSS III	79	23 Jul-04 Aug	J. Clark		Bot trawl		Yankee 41 with various mesh sizes	Haddock	
DELAWARE I	23	23 Jul-04 Aug	R. Wilson		Bot trawl		Balloon 41	Haddock	
ALBATROSS III	80	09 Aug-17 Aug	R. Wigley	Benthos		Sampling (groundfish stomachs)	Yankee 36 Smith-McIntyre grab Digby dredge 1-m plankton, sled		

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
		-1956- (continued)							
ALBATROSS III		17 Aug-02 Nov				Shipyard			
T-79	3	22 Aug-22 Aug	J. Colton			Sample	Shrimp trawl	Butterfish	
T-79	4	29 Aug-29 Aug	J. Colton		Trawl				
T-79	5	31 Aug-31 Aug	J. Colton			Sample	Bot trawl	Butterfish	
T-79	6	12 Sep-14 Sep	R. Edwards	Bot trawl Hydrographic		Sample (groundfish stomachs)	Bot trawl Smith-McIntyre grab Bot plankton trawl		
T-79	7	05 Oct-05 Oct	R. Livingstone			Underwater TV			
T-79	8	10 Oct-12 Oct	R. Edwards	Hydrographic Bot trawl		Sample (groundfish stomachs)	Industrial fishery flat net Water bottles Bot plankton trawl		
T-79	9	16 Oct-16 Oct	R. Livingstone			Underwater TV	Image Orthicon		
HUCKLEBERRY FINN WILLIAM CHESEBROUGH		29 Oct-01 Nov*	R. Livingstone			Underwater TV			
ALBATROSS III	81	02 Nov-10 Nov	J. Conover	Bot trawl			Yankee 36	Haddock Silver hake	
ALBATROSS III	82	13 Nov-21 Nov	J. Conover	Bot trawl			Yankee 36	Haddock Silver hake	
ALBATROSS III	83	27 Nov-30 Nov	R. Livingstone			Underwater TV	Yankee 36 Image Orthicon		
ALBATROSS III	84	06 Dec-14 Dec	J. Wise			Tagging	Bot trawl	Cod Haddock	
ALBATROSS III	85	19 Dec-20 Dec	R. Livingstone			Underwater TV	Image Orthicon CPS Emitron		

*Dates for this two-boat operation are available only for the HUCKLEBERRY FINN.

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1957-									
ALBATROSS III	86	21 Jan-23 Jan	R. Edwards	Bot trawl			Yankee 36	Industrial fish	
ALBATROSS III	87	30 Jan-07 Feb	R. Livingstone		Underwater TV		Yankee 41 Live cages Image Orthicon	Haddock	
T-79	10	14 Feb-14 Feb	F. Lux		Bot trawl	Tagging	Bot trawl	Yellowtail flounder	
ALBATROSS III	88	19 Feb-28 Feb	A. Farrin	Herring Hydrographic			CPR 1-m plankton	Herring	Larvae
T-79	11	25 Feb-25 Feb	F. Lux			Tagging	Bot trawl	Yellowtail flounder	
T-79	12	12 Mar-12 Mar	R. Edwards			Tagging	Bot trawl	Skates	
T-79	13	12 Mar-14 Mar	R. Edwards	Hydrographic					
ALBATROSS III	89	21 Mar-05 Apr	R. Livingstone		Underwater TV	Tagging	Yankee 41 Image Orthicon	Haddock Cod	
T-79	14	22 Mar-22 Mar	R. Edwards			Tagging	Bot trawl	Industrial fish	
T-79	15	26 Mar-26 Mar	J. Posgay		Underwater camera				
T-79		April-August		Laid up due to lack of funds.					
ALBATROSS III	90	11 Apr-17 Apr	J. Colton	Haddock Hydrographic			CPR Hensen egg net	Haddock	Eggs Larvae
ALBATROSS III	91	22 Apr-23 Apr	J. Colton		Plankton		Multiplane kite otter depressor		
ALBATROSS III	92	25 Apr-02 May	J. Colton	Haddock Hydrographic			CPR Hensen egg net	Haddock	Eggs Larvae
ALBATROSS III	93	08 May-16 May	R. Marak	Haddock Hydrographic			CPR Hensen egg net	Haddock	Eggs Larvae
Can HARENGUS		15 May-18 May	G. Kelly			Recapture tagged redfish		Redfish	
ALBATROSS III	94	22 May-29 May	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
		-1957- (continued)							
ALBATROSS III	95	05 Jun-12 Jun	J. Colton	Haddock Hydrographic			CPR	Haddock	Eggs Larvae
WHALING CITY	1	13 Jun-23 Jun	J. Posgay		Dredge		Scallop dredge 10, 11 with various size rings	Scallop	
ALBATROSS III	96	19 Jun-26 Jun	R. Livingstone		Underwater TV		Bot trawl Image Orthicon		
ALBATROSS III		26 Jun-10 Jul				Shipyards			
ALBATROSS III	97	10 Jul-13 Jul	J. Clark		Underwater TV		Bot trawl Image Orthicon	Silver hake	
ALBATROSS III	98	14 Jul-19 Jul	R. Fritz			Tagging		Silver hake	
ALBATROSS III	99	25 Jul-02 Aug	G. Kelly	Vertical distribution			Isaacs-Kidd	Redfish Haddock	Postlarvae
WHALING CITY	2	08 Aug-17 Aug	J. Posgay		Dredge		Scallop dredge 10 with various size rings	Scallop	
ALBATROSS III	100	14 Aug-14 Aug	J. Clark			Demonstration	Image Orthicon Plankton gear		
ALBATROSS III	101	21 Aug-30 Aug	R. Wigley	Benthos			Smith-McIntyre grab Scoopfish		
ALBATROSS III	102	05 Sep-11 Sep	G. Kelly	Vertical distribution			Isaacs-Kidd	Redfish	Postlarvae
T-79	16	16 Sep-20 Sep	R. Fritz			Tagging		Silver hake	
ALBATROSS III	103	18 Sep-26 Sep	J. Posgay	Scallop				Scallop	
ALBATROSS III	104	09 Oct-20 Oct	A. Jensen			Tagging	Yankee 41	Haddock Cod	
T-79	17	15 Oct-17 Oct	R. Edwards			Tagging Sample	Shrimp trawl	Scup Red hake	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	SURVEY	GEAR	OTHER	GEAR NAME	ORGANISM SOUGHT	
								MAJOR SPECIES	LIFE STAGE
1957 (continued)									
ALBATROSS III	105	28 Oct-08 Nov	J. Wise			Tagging	Yankee 41	Haddock Cod	
T-79	18	30 Oct-30 Oct	F. Lux			Sample	45 ft/65 ft trawl	Yellowtail flounder Industrial fish	
T-79	19	14 Nov-27 Nov	E. Dietsch			Tagging Sample	45 ft/65 ft trawl	Haddock	Adult Y-0-Y
ALBATROSS III	106	03 Dec-20 Dec	R. Temple	Herring Hydrographic			CPR	Herring	Larvae

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1958-									
ALBATROSS III	107	07 Jan-24 Jan	R. Temple	Herring Hydrographic			CPR	Herring	Larvae
T-79	20	21 Jan-21 Jan	F. Lux			Sample	45 ft/65 ft trawl	Yellowtail flounder	
T-79	21	28 Jan-31 Jan	J. Colton		Plankton		Miller Multiplane kite otter depressor		
ALBATROSS III		February -March				Shipyards			
SILVER MINK	1*	12 Feb-12 Feb	J. Clark			Sample Tagging	Bot trawl	Haddock	
SILVER MINK	2*	09 Mar-09 Mar	J. Clark			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	108	26 Mar-09 Apr	A. Jensen	Hydrographic		Tagging	Yankee 41 Nansen bottles	Haddock	
SILVER MINK	3*	11 Apr-11 Apr	J. Clark			Sample	Bot trawl	Haddock	
ALBATROSS III	109	21 Apr-24 Apr	R. Livingstone		Underwater TV		Yankee 41 Image Orthicon		
ALBATROSS III	110	30 Apr-08 May	R. Marak		Plankton		Miller Multiplane kite otter depressor		
SILVER MINK	4*	12 May-12 May	A. Jensen			Sample Tagging			
ALBATROSS III	111	19 May-28 May	J. Colton	Vertical distribution			Miller	Fish	Eggs Larvae
JACQUELYN	1	21 May-21 May	R. Edwards			Sample	45 ft/65 ft trawl OTS	Industrial fish Scallop	
SILVER MINK	5*	08 Jun-08 Jun	A. Jensen			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	112	09 Jun-13 Jun	R. Livingstone		Underwater TV		Yankee 41 Image Orthicon		

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	SURVEY	CRUISE PURPOSE		GEAR NAME	ORGANISM SOUGHT	
					GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
		-1958- (continued)							
JACQUELYN	2	12 Jun-12 Jun	R. Edwards			Sample	45 ft/65 ft trawl OTS	Industrial fish Scallop	
JACQUELYN	3	18 Jun-18 Jun	A. Merrill			Sample	OTS Digby dredge	Industrial fish Scallop	
ALBATROSS III	113	19 Jun-26 Jun	J. Posgay			Tagging Photography		Scallop	
ALBATROSS III	114	07 Jul-16 Jul	R. Fritz			Tagging	Yankee 36	Silver hake	
SHIRLEY & ROLAND	6*	12 Jul-12 Jul	A. Jensen			Sample	Bot trawl	Haddock	
ALBATROSS III	115	23 Jul-23 Jul	R. Livingstone			Demonstration	Image Orthicon		
ALBATROSS III	116	28 Jul-01 Aug	G. Kelly	Vertical distribution			Isaacs-Kidd	Redfish	Postlarvae
SHIRLEY & ROLAND	7*	09 Aug-09 Aug	J. Clark			Sample	Bot trawl	Haddock	
T-79	22	11 Aug				Sail to Charleston, South Carolina, to return vessel to Army			
JACQUELYN	4	18 Aug-18 Aug	A. Merrill			Sample	OTS	Industrial fish Scallop	
ALBATROSS III	117	09 Sep-16 Sep	G. Kelly	Vertical distribution Hydrographic			Isaacs-Kidd Yankee 41 Nansen bottles	Redfish	
DARTMOUTH		09 Sep-16 Sep	F. Nichy	Scallop	Dredge Odometer		Scallop dredge with various ring sizes Metered roller	Scallop	
SHIRLEY & ROLAND	8*	14 Sep-14 Sep	J. Clark			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	118	22 Sep-02 Oct	J. Colton	Haddock			Yankee 36	Haddock	Y-0-Y
JACQUELYN	5	23 Sep-23 Sep	R. Edwards			Sample	OTS Digby dredge	Industrial fish Scallop	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
		-1958- (continued)							
ALBATROSS III	119	06 Oct-17 Oct	R. Marak	Haddock			Yankee 36	Haddock	Y-0-Y
SILVER MINK	9*	14 Oct-14 Oct	A. Jensen			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	120	20 Oct-28 Oct	J. Colton	Haddock			Yankee 36	Haddock	Y-0-Y
ALBATROSS III	121	04 Nov-06 Nov	R. Livingstone		Underwater TV Hydrographic		Yankee 41 Gurley 622-D current meter Image Orthicon		
SILVER MINK	10*	13 Nov-13 Nov	J. Clark			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	122	17 Nov-26 Nov	J. Clark	Bot trawl Benthos		Tagging	Yankee 36 Scoopfish Naturalist's dredge	Haddock	
ALBATROSS III	123	04 Dec-11 Dec	R. Fritz	Bot trawl		Sample Tagging	Yankee 36	Silver hake Yellowtail flounder	
SILVER MINK	11*	11 Dec-11 Dec	J. Clark			Sample	Bot trawl	Haddock	
ALBATROSS III	124-I	16 Dec-17 Dec	R. Wigley		Benthos		1-m plankton, sled, closing Smith-McIntyre grab Naturalist's dredge		
ALBATROSS III	124-II	18 Dec-18 Dec	D. Miller		Plankton	Sample	Miller Scallop dredge 10	Scallop	

*The series of 12 monthly charter cruises by the SILVER MINK and SHIRLEY & ROLAND were never assigned cruise numbers. I have assigned consecutive numbers for this laboratory report.

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1959-									
ALBATROSS III	125	13 Jan-15 Jan	R. Fritz	Bot trawl	Bot trawl		Yankee 36 with two mesh sizes	Industrial fish	
SILVER MINK	12	15 Jan-15 Jan	A. Jensen			Sample Tagging	Bot trawl	Haddock	
ALBATROSS III	126	21 Jan-04 Feb	R. Edwards	Bot trawl			Yankee 36	All	
ALBATROSS III	127	10 Feb-11 Feb	S. Nickerson			Buoy recovery			
ALBATROSS III	128	15 Feb-20 Feb	S. Nickerson			Bell Telephone lab exercise			
ALBATROSS III				Vessel decommissioned					
DELAWARE I	59-03	18 Mar-26 Mar	F. Lux			Tagging	Yankee 36	Yellowtail flounder	
DELAWARE I	59-04-I	02 Apr-08 Apr	J. Clark	Midwater trawl	Underwater TV		M&M trawl	Haddock	Spawning
DELAWARE I	59-04-II	09 Apr-17 Apr	J. Clark			Tagging	Yankee 41	Haddock	
WHALING CITY	3	13 May-20 May	J. Posgay	Scallop			Scallop dredge	Scallop	
ASTERIAS	1	19 May-19 May	R. Edwards		Bot trawl		Otter trawl		
DELAWARE I	59-09	05 Aug-11 Aug	R. Wigley	Benthos			Smith-McIntyre grab Naturalist's dredge		
DELAWARE I	59-10	18 Aug-29 Aug	E. McRae	Bot trawl			40' Gulf shrimp trawl	All	
WHALING CITY	4	12 Sep-18 Sep	A. Merrill	Scallop			Scallop dredge	Scallop	
DELAWARE I	59-12	23 Sep-07 Oct	J. Wise	Haddock			Yankee 36	Haddock	Y-0-Y
DELAWARE I	59-13	13 Oct-27 Oct	A. Jensen	Haddock			Yankee 36	Haddock	Y-0-Y
DELAWARE I	59-14	04 Dec-14 Dec	R. Fritz	Evaluation of transect method for fish surveys			Yankee 36	All	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1960-									
DELAWARE I	60-02	10 Feb-26 Feb	R. Fritz	Hydrographic Red crab Bot trawl			Yankee 36	Red crab All	
DELAWARE I	60-03	08 Mar-17 Mar	J. Skerry	Bot trawl			Yankee 36 Isaacs-Kidd	Silver hake Offshore hake	
DELAWARE I	60-04	23 Mar-02 Apr	J. Wise	Plankton			1-m plankton, closing Yankee 36 Breidfjord float- ing trawl	Haddock	Eggs
DELAWARE I	60-05	06 Apr-10 Apr	C. Wheeler			Sample	Yankee 36	Haddock	
DELAWARE I	60-07	11 May-21 May	A. Merrill	Scallop Benthos			Scallop dredge 10 Digby dredge 2½	Scallop	
DELAWARE I	60-08	23 May-29 May	J. Posgay	Scallop			Scallop dredge 10	Scallop	
DELAWARE I	60-10	05 Jul-09 Jul	R. Fritz	Bot trawl			Yankee 36	Haddock	Y-0-Y
CAPT BILL III	1	22 Aug-26 Aug	J. Skerry	Bot trawl			Yankee 36	Haddock	Y-0-Y 1 year +
CAPT BILL III	2	19 Sep-23 Sep	J. Skerry	Bot trawl			Yankee 36	Haddock	Y-0-Y 1 year +
NOAH A	1	30 Sep-30 Sep	A. Merrill	Scallop		Sample	Scallop dredge 9	Scallop	
NOAH A	2	08 Oct-08 Oct	A. Merrill			Sample SCUBA		Scallop	
NOAH A	3	23 Oct-23 Oct	A. Merrill		Underwater camera	Sample SCUBA		Scallop	
DELAWARE I	60-12	02 Nov-21 Nov	J. Skerry	Bot trawl			Yankee 36	All	
NOAH A	4	13 Nov-13 Nov	A. Merrill		Scallop dredge	Sample		Scallop	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1961-									
DELAWARE I	61-04	17 Mar-27 Mar	R. Fritz	Vertical distribution			Yankee 36	Silver hake Offshore hake	
DELAWARE I	61-05	30 Mar-07 Apr	F. Lux			Tagging	Yankee 36	Summer flounder	
DELAWARE I	61-07	03 May-10 May	A. Merrill	Scallop			Scallop dredge 10	Scallop	
DELAWARE I	61-09	12 Jun-16 Jun	R. Fritz	Bot trawl			Yankee 36	All	
DELAWARE I	61-10	20 Jun-30 Jun	R. Wigley	Benthos			Smith-McIntyre Naturalist's dredge Dietz-Lafond grab Dipnet		
DELAWARE I	61-12	20 Jul-03 Aug	R. Edwards			Bot trawl	Whiting trawl with window Yankee 36	Haddock Silver hake	
DELAWARE I	61-13	10 Aug-19 Aug	A. Merrill			Scallop dredge	Scallop dredge 3" rings, 4" rings and 5" rings		
CHARLOTTE	1	01 Sep-01 Sep	A. Merrill	Scallop				Scallop	
DELAWARE I	61-16	22 Sep-01 Oct	J. Posgay	Scallop			Scallop dredge 10	Scallop	
DELAWARE I	61-17	03 Oct-06 Oct	R. Fritz	Bot trawl			Yankee 36	All	
CHARLOTTE	2	16 Oct-16 Oct	A. Merrill			Sample		Scallop	
DELAWARE I	61-19-I	25 Oct-06 Nov	R. Fritz	Bot trawl			Yankee 36	All	
DELAWARE I	61-19-II	08 Nov-20 Nov	D. Miller	Bot trawl			Yankee 36	All	
CHARLOTTE	3	14 Nov-14 Nov	A. Merrill			Sample		Scallop	

VESSEL	CRUISE	DATE	PARTY CHIEF or US PARTICIPANT	CRUISE PURPOSE			GEAR NAME	ORGANISM SOUGHT	
				SURVEY	GEAR	OTHER		MAJOR SPECIES	LIFE STAGE
-1962-									
CHARLOTTE	4	16 Jan-16 Jan	E. Haynes			Sample		Scallop	
DELAWARE I	62-03	15 Mar-22 Mar	K. Cumming			Sample	Otter trawl	Haddock	
CHARLOTTE	5	07 Apr-07 Apr	E. Haynes			Sample		Scallop	
DELAWARE I	62-06	28 May-08 Jun	A. Merrill	Scallop			Scallop dredge 10	Scallop	
DELAWARE I	62-07	11 Jun-20 Jun	R. Wigley	Benthos			Naturalist's dredge Smith-McIntyre grab Bottom skimmer Gravity corer		
DELAWARE I	62-08-I	25 Jun-26 Jun	C. Wheeler			Sample	Yankee 36		
DELAWARE I	62-08-II	26 Jun-28 Jun	R. Fritz			Sample	Yankee 36		
Fre THALASSA		26 Jul-12 Aug	Dr. Ancellin	Observe operation of a stern trawler as part of ICNAF scientist exchange program					
DELAWARE I	62-10	11 Sep-20 Sep	A. Merrill	Scallop			Scallop dredge 10	Scallop	
DELAWARE I	62-12	09 Oct-20 Oct	R. Fritz	Bot trawl			Yankee 36	All	
DELAWARE I	62-13	25 Oct-04 Nov	A. Jensen	Bot trawl			Yankee 36	All	

