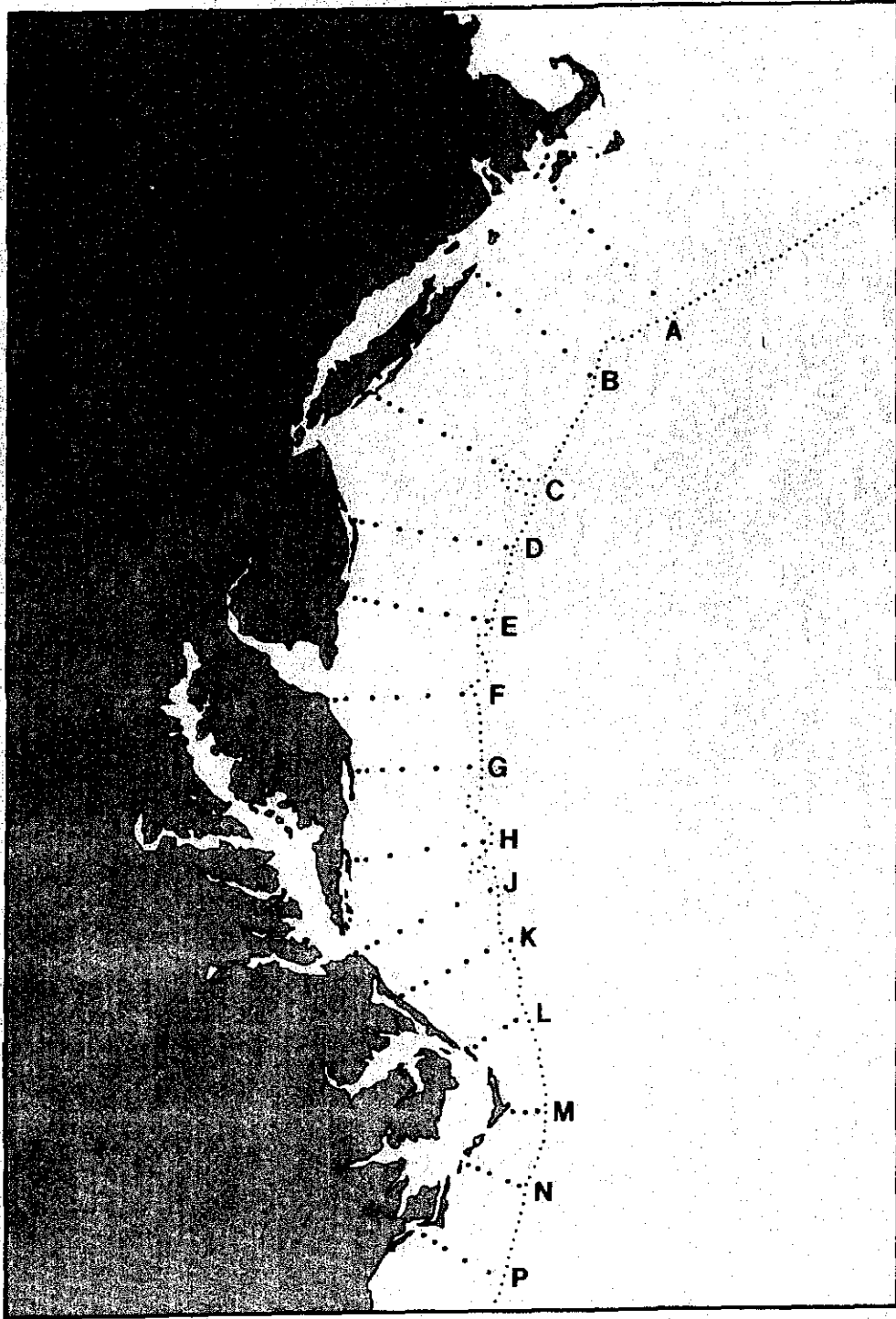


Ichthyoplankton from the RV *Dolphin* Survey of
Continental Shelf Waters between Martha's Vineyard, Massachusetts
and Cape Lookout, North Carolina, 1965-66



ICHTHYOPLANKTON FROM THE RV DOLPHIN SURVEY OF
CONTINENTAL SHELF WATERS BETWEEN MARTHA'S VINEYARD, MASSACHUSETTS
AND CAPE LOOKOUT, NORTH CAROLINA, 1965-66

by

P. L. Berrien, M. P. Fahay, A. W. Kendall, Jr., and W. G. Smith

Sandy Hook Laboratory
Northeast Fisheries Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
U. S. Department of Commerce

Highlands, N. J.

Technical Series Report No. 15

March 1978

CONTENTS

	<u>PAGE</u>
ABSTRACT.....	1
INTRODUCTION.....	2
METHODS.....	3
RESULTS.....	5
ACKNOWLEDGMENTS.....	7
LITERATURE CITED.....	8

FIGURES

1. Location of transects and collecting stations for the ichthyoplankton survey.....	11
2. Variations in tow profile due to varying water depth and procedures for standardization of effort between stations.....	12

TABLES

1. List of taxa identified from survey cruises.....	13
2. Physical conditions and sampling data associated with plankton collections.....	21
3. Eggs and larvae of fishes identified from R. V. <u>Dolphin</u> ichthyoplankton survey, listed by station.....	38

ABSTRACT

Data are tabulated on ichthyoplankton and concomitant physical conditions collected during a survey of Atlantic continental shelf waters. Sampling information and laboratory procedures are described. Numbers and lengths of 87 species of larval fishes are tabulated by station; egg catches for 9 of these are included. Additionally, the presence of 79 categories of larvae, presently identified only to genus or a higher taxon, is noted by station.

INTRODUCTION

Between December 1965 and December 1966 Sandy Hook Laboratory conducted an ichthyoplankton survey of continental shelf waters from Martha's Vineyard, Massachusetts to Cape Lookout, North Carolina. This study was designed to determine where and when marine fishes spawn, describe distributions and dispersal patterns of their eggs and larvae, and was intended to eventually help us evaluate the extent of estuarine dependence of their young.

This report presents data on young stages of 166 taxa and includes descriptions of sampling design and physical conditions associated with the plankton collections. Although the identifications of some taxa are not to the specific level, we present these data in their present form because: 1) the areal and seasonal extent of our survey is the most comprehensive undertaken in the Middle Atlantic Bight; 2) we have received many requests for portions of the data; 3) the small numbers of some species do not warrant publishing individually; and 4) there is value in publishing the data by station as well as by species.

Some data have already been published. Field and laboratory procedures, physical conditions, zooplankton volumes, and a list of juvenile and adult fishes caught in a mid-water trawl are included in Clark et al. (1969). Reports on individual species taken from plankton samples have been published as follows: Centropristis striata (Kendall 1972), Ammodytes sp. (Richards and Kendall 1973), Paralichthys dentatus (Smith 1973), Merluccius bilinearis (Fahay 1974), Brevoortia tyrannus (Kendall and Reintjes 1975), and Pleuronectiformes (Smith et al. 1975). Descriptions of young stages,

based on survey specimens include Paralichthys dentatus (Smith and Fahay 1970) and Scomber scombrus (Berrien 1975). Similar papers on other species are in preparation or planned.

METHODS

Sampling procedures described by Clark et al. 1969, Smith 1973, and Fahay 1974 are only summarized here. On each cruise we sampled at 92 stations situated on 14 transects (Figure 1). Stations were shoreward as close to the beach as the vessel could operate, and seaward to near the continental shelf edge. We completed eight cruises from December 1965 to December 1966. In addition, on an incomplete cruise in September 1966 (cruise D-66-11) we sampled four transects between Martha's Vineyard, Massachusetts and Barnegat Inlet, New Jersey.

Two Gulf V samplers (Arnold 1959) with 0.52-mm mesh netting were usually towed simultaneously at each station. All step oblique tows were 30 min at a speed of 9.3 km/h (5 kt). In a standard tow the nets were lowered in six 3-m depth increments, or steps, and towed for 5 min at each depth. One Gulf V sampled from 0 to 15 m, and the other from 18 to 33 m. Alterations to this standard towing procedure, necessitated by varying water depth are shown in Figure 2. Surface temperature was measured with a stem thermometer. Mechanical bathythermographs provided temperature data with water depth. Salinity was measured with an in situ induction salinometer at 5-m depth increments to a maximum of 50 m.

All fish eggs and larvae were removed by successively sorting small portions of each plankton sample under dissecting microscopes as described in Clark et al. (1969). The responsibility for identification of eggs

and larvae was divided among the four authors as follows:

Michael P. Fahay - elopiform and anguilliform leptocephali, Gadidae,
and Merlucciidae.

W. G. Smith - Pleuronectiformes.

Arthur W. Kendall, Jr. - Serranidae, Labridae, Clupeiformes, Myctophidae,
Ammodytes, Pomatomus, and Peprilus.

Peter Berrien - Sciaenidae and Scombridae.

Kenneth Able, of McGill University, identified the Liparidae.

Remaining fish larvae were identified, largely to the familial level, by
Peter Berrien, with assistance from the other biologists.

The generic and specific names assigned to specimens conform to Bailey
et al. (1970), or to current usage among workers of appropriate purview.
Nomenclature and order of listing (Tables 1 and 3) among higher taxa
conforms to Greenwood et al. (1966), except for placing Scorpaeniformes
and Dactylopteriformes after Perciformes as in Bailey et al. (1970).

In order to express the density of eggs and larvae in a standard
manner (as number per 10m² sea surface) and because of the variation in
tow schemes between stations, the following procedures were used. All
deep-net catches (18-33 m) were reduced by 10% of the shallow-net catch
(0-15 m) to compensate for contamination in the upper 15 m of water.
Because flowmeters were not used, a theoretical value of 495m³ of water
filtered by each sampler was used in calculations. This value was based
on a reported 85% filtration efficiency for unencased conical nets of the
dimensions and porosity used (Tranter and Smith 1968). Therefore, the

water volume filtered = $0.85 (\pi r^2 h)$; $r = 0.2\text{m}$, $h = 4630\text{m}$. Catch per square meter of ocean surface area (subsequently converted to catch per 10m^2 in this case) was calculated by dividing the standardized number caught by the ocean area corresponding to the volume filtered, after equalizing the sampling effort at each depth to the standard of 5 min. Standardization of effort, catch, and volume filtered is illustrated in Figure 2.

RESULTS

Table 1 indicates how many larvae of each analyzed species were taken during each cruise, the presence of unanalyzed taxa, and the number of occurrences for all larval taxa and nine egg species. Table 2 is a summary of data associated with each plankton collection. The following comments are included to clarify certain entries in the table.

- 1) Light condition - "dawn" or "dusk" was assigned if sunrise or sunset occurred during any part of the 30-min tow.
- 2) The mean temperatures and mean salinities were calculated from measurements at 5-m depth intervals. Measurements within the plankton sampling depths were multiplied by the meters of depth they represented, the products were totaled, and the sum was divided by the number of meters sampled by the Gulf V net.
- 3) Values for temperature or salinity ranges were interpolated as needed from the measurements at 5-m intervals.
- 4) Water depth was calculated by averaging the fathometer depth at the start and end of the plankton tow.

5) The thermocline was designated as *strong* (if there was a change in temperature of at least 1°C per meter of depth), *weak* (a change of less than 1°C per meter, but stratification was present), *gradual* (slight, but constant change in temperature with depth, no distinct thermocline or stratification), or *none* (little or no temperature change with depth, isothermal).

Table 3 lists the fish eggs and larvae identified. Transects are listed from north to south (alphabetically) and stations on each transect from inshore to offshore (numerically). Fishes are listed in two categories: "Species Analyzed" and "Additional Larvae Caught". In the first category, any number including zero in the "No. Eggs" column indicates that we looked for eggs of a given species. Lack of a number in this column indicates that we did not search for eggs of this species, and does not necessarily mean they were not present in the samples. The second category refers to those fishes present in the samples which were not counted or measured. These were usually identified to family or a higher taxon.

In a few cases where the numbers of specimens caught, shown in Table 3, do not agree with results published elsewhere, the differences are due to adjustments to raw data in correcting for contamination of the deep net in the shallow zone and in standardizing sampling effort, or recent finds of specimens that initially had been incorrectly identified.

ACKNOWLEDGMENTS

We thank Charles Morrison, John LeBaron, and Gregory Howard for carrying out the computer work; and the many biological aids and technicians who performed the numerous sorting, counting, measuring, and tabulating tasks.

LITERATURE CITED

ARNOLD, E. L., JR.

1959. The Gulf V plankton sampler, 1. 111-113. In Galveston Biological Laboratory fishery research for the year ending June 30, 1959. U. S. Fish Wildl. Serv., Circ. 62.

BAILEY, R. M., J. E. FITCH, E. S. HERALD, E. A. LACHNER, C. C. LINDSEY, C. R. ROBINS, and W. B. SCOTT.

1970. A list of common and scientific names of fishes from the United States and Canada (third edition). Am. Fish. Soc., Spec. Publ. No. 6, 150 p.

BERRIEN, P. L.

1975. A description of Atlantic mackerel, Scomber scombrus, eggs and early larvae. Fish. Bull., U. S. 73: 186-192.

CLARK, J., W. G. SMITH, A. W. KENDALL, JR., and M. P. FAHAY.

1969. Studies of estuarine dependence of Atlantic coastal fishes. Data Report I: Northern Section, Cape Cod to Cape Lookout. R. V. Dolphin cruises 1965-66: zooplankton volumes, midwater trawl collections, temperatures and salinities. U. S. Fish Wildl. Serv., Tech. Pap. 28, 132 p.

FAHAY, M. P.

1974. Occurrence of silver hake, Merluccius bilinearis, eggs and larvae along the middle Atlantic continental shelf during 1966. Fish. Bull., U. S. 72: 813-834.

GREENWOOD, P. H., D. E. ROSEN, S. H. WEITZMAN, and G. S. MYERS.

1966. Phyletic studies of teleostean fishes, with a provisional classification of living forms. Bull. Am. Mus. Nat. Hist. 131(Art. 4): 339-455.

KENDALL, A. W., JR.

1972. Description of black sea bass, Centropristis striata (Linnaeus), larvae and their occurrences north of Cape Lookout, North Carolina, in 1966. Fish. Bull., U. S. 70: 1243-1260.

KENDALL, A. W., JR., and J. W. REINTJES.

1975. Geographic and hydrographic distribution of Atlantic menhaden eggs and larvae along the middle Atlantic coast from R/V Dolphin cruises, 1965-66. Fish. Bull., U. S. 73: 317-335.

RICHARDS, S. W., and A. W. KENDALL, JR.

1973. Distribution of sand lance, Ammodytes sp., larvae on the continental shelf from Cape Cod to Cape Hatteras from R/V Dolphin surveys in 1966. Fish. Bull., U. S. 71: 371-386.

SMITH, W. G.

1973. The distribution of summer flounder, Paralichthys dentatus, eggs and larvae on the continental shelf between Cape Cod and Cape Lookout, 1965-66. Fish. Bull., U. S. 71: 527-548.

SMITH, W. G., and M. P. FAHAY.

1970. Description of eggs and larvae of the summer flounder, Paralichthys dentatus. U. S. Fish Wildl. Serv., Res. Rep. 75, 21 p.

SMITH, W. G., J. D. SIBUNKA, and A. WELLS.

1975. Seasonal distributions of larval flatfishes (Pleuronectiformes) on the continental shelf between Cape Cod, Massachusetts and Cape Lookout, North Carolina, 1965-66. U. S. Dep. Commer., NOAA Tech. Rep. NMFS SSRF-691, 68 p.

TRANTER, D. J., and P. E. SMITH.

1968. Chap. 3. Filtration performance. pp. 27-56. In Zooplankton
Sampling. UNESCO Monograph on oceanographic methodology. No. 2.
Paris.

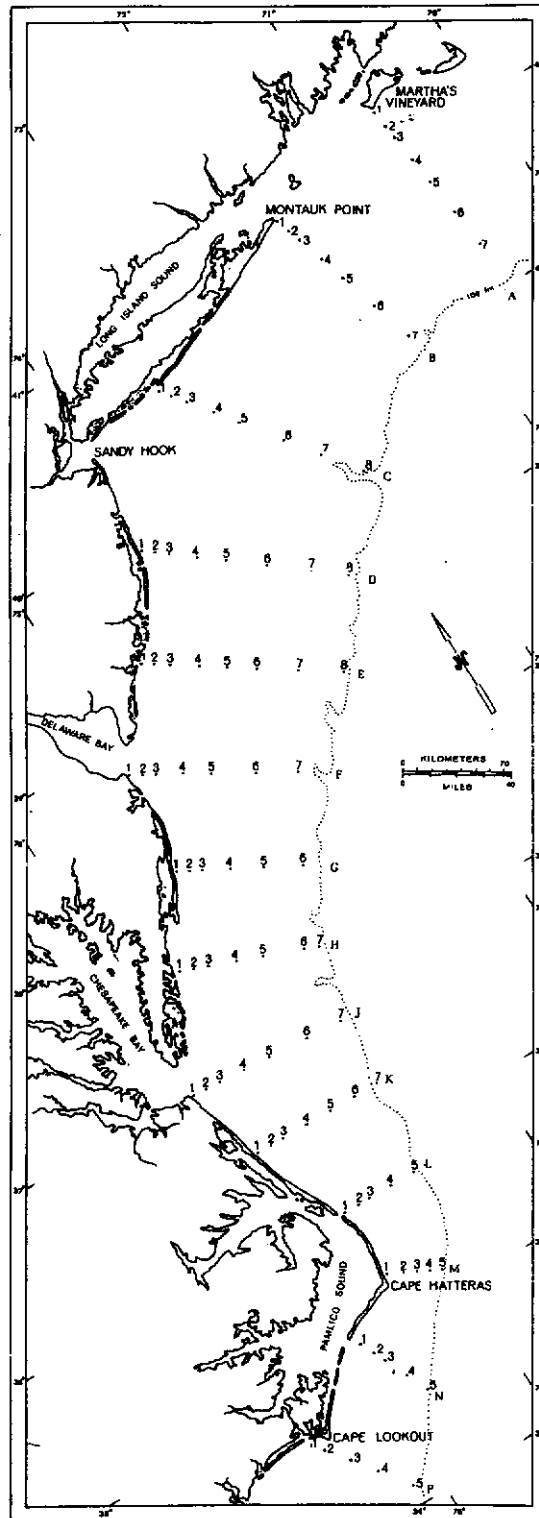


Figure 1. Locations of transects and collecting stations for the ichthyoplankton survey.

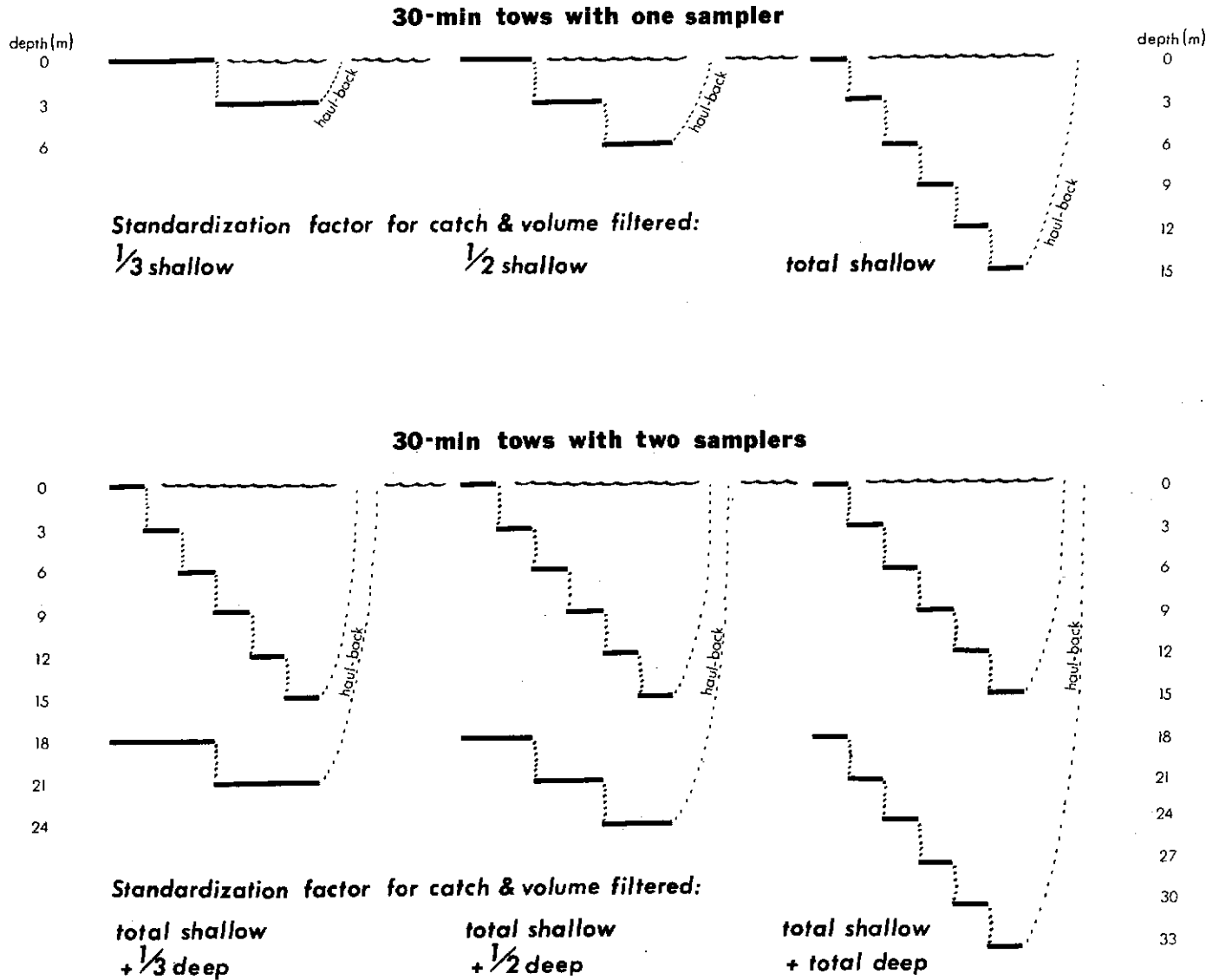


Figure 2. Variations in tow profile due to varying water depth and procedures for standardization of effort between stations. Ocean surface area corresponding to each standardized tow was determined by dividing the standardized volume filtered by the maximum depth sampled. Resultant catch densities were converted to catch per 10m^2 for Table 3.

TABLE 1. List of taxa identified from survey cruises. The number of larvae caught, if analyzed, or the presence of larvae not analyzed (+) is indicated before the slash; after the slash the number of occurrences given includes all larvae and nine species of eggs marked (*).

		T A X O N								
		65-4	66-1	66-3	66-5	66-7	66-10	66-11	66-12	66-14
		Dec	Jan-Feb	Apr	May	June	Aug	Sept	Sept-Oct	Nov-Dec
Elophormes										
Elopidae										
Elops saurus	ladyfish	4/3			6/1	3/2	2/1		1/1	7/4
<u>Megalops atlantica</u>	tarpon									
Albulidae										
<u>Albula vulpes</u>	bonefish					3/2				
Anguilliformes										
Anguillidae	unident. eel leptocephali				+2	+1	+4		+3	
<u>Anguilla rostrata</u>	American eel	+2	+15	+3	+3				+1	+1
Moringuidae	spaghetti eels		+1							+5
Muraenidae	morays	+1	+2	+1	+4	+5	+5		+7	+2
Congridae	conger eels		+1		+1	+2			+2	+2
Ophichthidae	snake eels	+5	+3		+5	2+3	+17	+1	+5	1+3
<u>Ahlia egmontis</u>	key worm eel	1/1			1/1				1/1	
<u>Apterichthys kendalli</u>	finless eel					1/1			2/1	
<u>Callichelys perrivae</u>	shorttail snake eel		1/1			1/1	3/2		2/1	40/8
<u>Letharchus velifer</u>	sailfin eel						1/1			
<u>Myrichthys oculatus</u>	goldspotted eel		1/1							
<u>Myrichthys</u> sp.	snake eel					1/1			4/3	
<u>Myrophis punctatus</u>	speckled worm eel								2/1	42/9
<u>Ophichthus gomesi</u>	shrimp eel	2/1			2/2	12/4	4/4		15/7	
<u>Ophichthus melanopus</u>	blackpored eel	2/2	1/1							1/1
<u>Ophichthus ocellatus</u>	palespotted eel	8/3	3/3	2/1	1/1	1/1	1/1		2/1	7/6
<u>Ophichthus</u> sp.	snake eel				1/1					1/1
<u>Pisodonophis cruentifer</u>							23+/11	6+/5	+1	
Nettastomatidae			+3				+2			
Serrivomeridae										+1

TABLE 1. (continued)

	T A X O N											
	65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec			
Clupeiformes												
Clupeidae												
<u>Brevoortia tyrannus</u>	914/32	305/23	34/8	3/3	14/3	8/5		5420/36	308/34			
<u>Clupea h. harengus</u>	3/3	43/13	66/9	4/3					610/22			
<u>Etrumeus satina</u>	22/4	22/3	134/4	6/4								
<u>Sardinella anchovia</u>				32/6	15/6	64/6		6/1				
Engraulidae												
<u>Anchoa hepsetus</u>	1/1		30/6	484/11	57/8	677/8		1682/27	63/13			
<u>Anchoa mitchilli</u>	65/5	29/4			5620/16	46/4		35/4	13/4			
<u>Engraulis eurystole</u>	46/13	8/5	32/4	61/5	362/11	3894/50		453/33	171/11			
Salmoniformes												
Gonostomatidae												
<u>Cyclothone</u> sp.	+1		+8	+4	+8	+8		+10	+4			
<u>Maurolicus</u> sp.	+3	+2	+1	+1	+2	+1		+1				
<u>Vinciguerrria</u> sp.												
Stomiidae	+3	+2	+3		+2				+4			
Synodontidae	+12	+3	+8	+11	+13	+18	+2	+16	+10			
Chlorophthalmidae	+1		+2		+1				+2			
Paralepididae	+6	+4	+4	+4	+6	+3	+1	+5	+5			
<u>Sudis</u> sp.			+1	+1								
Myctophidae	2+2	6+2	14/4	26+10	53+15	2+4		4/2	+2			
<u>Benthosena</u> sp.				5/4		2/2						
<u>Benthosena glaciale</u>			2/1	9/3	151/16				1/1			
<u>Benthosena suborbitale</u>	4/1	2/2	1/1		2/1			5/3	7/3			
<u>Ceratocopelus</u> sp.				14/3								
<u>Ceratocopelus maderensis</u>	5/4	6/3	119/6	23/7	79/11	276/11	10/2	36/11	68/14			
<u>Ceratocopelus warmingi</u>	61/5	2/2	199/6	39/4	52/6	3/3		8/6	12/4			
<u>Diaphus</u> sp.	14/4	9/6	39/4	45/4	40/6	7/4	6/2	34/10	33/5			

TABLE 1. (continued)

	T A X O N									
	65-4	66-1	66-3	66-5	66-7	66-10	66-11	66-12	66-14	
	Dec	Jan-Feb	Apr	May	June	Aug	Sept	Sept-Oct	Nov-Dec	
<u>Diogenichthys atlanticus</u>		1/1				1/1			1/1	
<u>Electrona rissoi</u>		1/1						1/1		
<u>Hygophum benoiti</u>			7/4	1/1	1/1				1/1	
<u>Hygophum hygomi</u>		1/1			1/1					
<u>Hygophum benoiti or hygomi</u>		4/2	2/1	1/1	4/1			1/1	2/2	2/2
<u>Hygophum reinhardtii</u>									2/1	
<u>Hygophum tanningi</u>	1/1			2/2						
<u>Lampanyctus sp.</u>			8/3	4/2	2/1					
<u>Lampanyctus alatus or photonotus</u>	34/7	5/2	7/2	4/3	7/4	2/2		3/2	5/4	
<u>Lampanyctus ater</u>	3/3		3/2	4/3	1/1			1/1		
<u>Lampanyctus cuprinus</u>				1/1	1/1	1/1		3/1	2/2	
<u>Lampanyctus nobilis</u>			2/1	1/1	2/1			2/1	1/1	
<u>Lampadena sp.</u>			3/2	1/1	5/3				1/1	
<u>Lepidophanes sp.</u>										
<u>Lobianchia sp.</u>						1/1			1/1	
<u>Myctophum sp.</u>	2/2	1/1		4/2	7/1					
<u>Myctophum affine</u>	2/2	1/1	6/3	2/1	7/3			1/1		
<u>Myctophum obtusirostris</u>			2/2							
<u>Myctophum selenops</u>			1/1		2/2					
<u>Notolychnus valdiviae</u>		3/2		1/1					1/1	
<u>Notoscopelus sp.</u>	6/1	11/6	1/1					1/1		1/1
<u>Notoscopelus resplendens</u>		4/2		1/1				2/1		
<u>Symbolophorus veranyi</u>	2/2									
Lophiiformes										
Lophidae										
<u>Lophius americanus</u>	2/2	+2	12/2	15/5	148/37	110/26	91/11	37/14	1/1	
goosefish										
Gadiformes										
Bregmacerotidae										
	+7	+5	+5	+7	+3	+2	+17	+6	+6	
Gadidae										
<u>Enchelyopus cimbrius*</u>	7/4	6/5	7/13	221/50	3072/44	252/22	485/21	285/28	41/16	
<u>Gadus morhua*</u>	123/20	111/33	63/35	141/26	34/14				122/25	
<u>Melanogrammus aeglefinus*</u>		3/2	0/4	258/13	12/7					

TABLE 1. (continued)

T A X O N	65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
<u>Pollachius virens</u> *		139/2	11/8	6/4					31/10
<u>Urophycis</u> sp.	739/42	80/9	10/3	15/6	4/2	252/5	15110/26	11405/63	1187/60
<u>Urophycis chuss</u>				1/1	54/22	3425/44	1167/8		
<u>Urophycis floridanus</u>	3/1								
<u>Urophycis regius</u>		11/4							
Merlucciidae									
<u>Merluccius bilinearis</u> *	209/26			2/3	585/23	2989/34	3877/28	3187/42	407/38
Ophidiidae									
		+8	+9	+11	+10	+52	+15	+65	+11
Carapidae									
		+3	+4	+2	+1	+7		+6	
Atheriniformes									
Exocoetidae									
			+1	+1	+1				
Atherinidae									
				+1	+2	+1		+2	
Beryciformes									
Holocentridae									
				+4	+2				
Zeiiformes									
Caproidae									
			+1	+1	+2	+1		+1	
Gasterosteiformes									
Fistulariidae									
	+1			+1	+2			+2	+1
Syngnathidae									
	+9	+2	+4	+5	+9	+9	+1	+10	+5
Perciformes									
Serranidae									
<u>Centropristis striata</u>	+9	+7	+8	+9	+8	+13		+19	+8
<u>Hemanthias vivanus</u>					3/2	123/15	1/1	17/10	4/3
<u>Plectranthias garrupellus</u>	11/5	11/3	18/6	12/4	22/5	2/2		37/8	21/4
<u>Serraniculus pumilio</u>	1/1	3/2	2/1						
									2/1

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Grammistidae	soapfishes	+1	+1	+2	+2	+2	+6	+1	+1	+1
Priacanthidae	bigeyes				+2	+2	+2	+2	+2	+1
Apogonidae	cardinalfishes	+1	+1	+1	+6	+6	+2	+6	+6	+4
Branchiostegidae	unident. tilefishes				+2	+1	+2	+1		
<u>Malacanthus</u> sp.										
Pomatomidae	bluefish		1/1		25/5		1621/25	2/2	2/1	
<u>Pomatomus saltatrix</u>										
Carangidae	jacks	+4	+4	+5	+9	+11	+15	+1	+10	+8
Coryphaenidae	dolphins	+1		+2	+6	+3	+1		+1	
Sparidae	porgies	+14	+8	+7	+14	+2	+3		+2	+10
Sciaenidae	drums					+3	+8		+2	
<u>Cynoscion</u> sp.	unident. weakfishes				3/2	93/11	3/2			
<u>Larimus fasciatus</u>	banded drum			1/1	7/4	5/4	90/14		21/9	
<u>Leiostomus xanthurus</u>	spot	1749/18	406/14	24/6	3/2					55/8
<u>Menticirrhus</u> sp.	unident. kingfishes			1/1	4/1	58/12	48/15			
<u>Micropogon undulatus</u>	Atlantic croaker	603/21	33/9	2/2			265/18		441/20	1025/19
Chaetodontidae	butterflyfishes	+3		+1	+2		+1		+1	+1
Pomacentridae	damsel-fishes			+3	+3	+3	+2		+3	+2
Labridae or Scaridae	wrasses or parrotfishes			+5	+11	+9	+19	+3	+11	+7
<u>Tautoga onitis</u>	tautog	+7	+4		81/9	152/20	67/5	5/2		
<u>Tautoglabrus adspersus</u>	cunner					3467/22	693/32	16/7		
Mugilidae	mulletts	+6	+3	+1	+8	+4			+3	+5

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Sphyraenidae	barracudas		+1	+1	+5	+2	+3		+4	+3
Uranoscopidae	stargazers				+4	+4	+12		+11	+3
Blenniidae	cometooth blennies	+1	+1	+34	+26	+14	+11		+13	+4
Stichaeidae	pricklebacks				+2					
Pholidae	gunnels		+20	+15						
Ammodytidae	unident. sand lance		1499/54	507/51	44/16					53/3
Callionymidae	dragonets	+11	+3	+1	+6	+6	+16	+1	+11	+11
Gobiidae	gobies	+19	+11	+9	+10	+14	+21	+2	+23	+35
Acanthuridae	surgeonfishes	+5		+1	+6	+2	+2		+1	+2
Gempylidae	snake mackerels	+4	+2	+1	+2	+2			+1	+1
Trichiuridae	cutlassfishes	+1	+1		+4	+1	+4		+5	+2
Scombridae	wahoo					4/1				
<u>Acanthocybium solanderi</u>	frigate or bullet mackerel		1/1	17/2	359/6	821/7	1343/43	2/2	9/6	
<u>Auxis</u> sp.	little tunny				12/4	4/2	90/12		5/3	
<u>Euthynnus alletteratus</u>	skipjack tuna			3/2	10/2	10/2	3/2			
<u>Katsuwonus pelamis</u>	Atlantic bonito				1/6	9/9	232/20			
<u>Sarda sarda</u> *	chub mackerel				2/1					
<u>Scomber japonicus</u> *	Atlantic mackerel		1/1		1490/64	3293/37	76/5		37/9	
<u>Scomber scombrus</u> *	king mackerel				28/3	2/1	18/5			
<u>Scomberomorus cavalla</u>	yellowfin tuna				1/1	1/1				
<u>Thunnus albacares</u>					2/2		2/1			
<u>Thunnus albacares</u> or <u>alalunga</u>					1/1	2/2				
<u>Thunnus obesus</u> or <u>atlanticus</u>					1/1					
<u>Thunnus thynnus</u>	bluefin tuna		1/1						1/1	

TABLE 1. (continued)

	T A X O N									
	65-4	66-1	66-3	66-5	66-7	66-10	66-11	66-12	66-14	
	Dec	Jan-Feb	Apr	May	June	Aug	Sept	Sept-Oct	Nov-Dec	
Istiophoridae				+1	+2					
billfishes										
Stromateidae	+5		+3	+9	+10	+26	+10	+4	+2	
<u>Peprilus triacanthus</u>	21/7	10/2	108/8	284/15	357/20	2545/66	116/19	151/27	20/9	
Scorpaeniformes										
Scorpaenidae	+6	+4	+8	+9	+6	+11		+5	+7	
scorpionfishes										
Triglidae	+5	+2	+5	+8	+8	+16		+22	+7	
<u>Prionotus carolinus</u>	92/9	8/3	66/7	15/5	435/20	738/36	215/10	8001/62	241/26	
<u>Prionotus evlans</u>						16/6		2/2		
Cottidae		+17	+20	+7						
sculpins										
Cyclopteridae					28/1					
<u>Liparis inquilinus</u> or <u>atlanticus</u>										
<u>Liparis atlanticus</u>				1/1	35/4					
<u>Liparis inquilinus</u>			2/1	393/22	20/8					
seasail										
inquiline seasnail										
Dactylopteriformes										
Dactylopteridae				+2	+1	+1				
<u>Dactylopterus volitans</u>										
flying gurnard										
Pleuronectiformes										
Bothidae										
<u>Bothus ocellatus</u>	123/12	16/5	36/6	354/6	264/10	56/11	1/1	279/16	362/8	
<u>Citharichthys arctifrons</u>	34/12		33/8	10/7	24/3	4266/44	2849/26	3675/44	273/30	
<u>Cyclosetta fimbriata</u>	1/1		1/1	11/4	8/3	5/1		22/9	4/3	
<u>Etropus microstomus</u>	467/12	68/7	12/5	23/6	185/22	1647/40	14/3	631/42	472/33	
<u>Monolene sessilicauda</u>			1/1		3/1	1/1	1/1			
<u>Paralichthys dentatus</u> *	845/63	55/18	40/8	7/3			18/6	1424/42	520/73	
<u>Hippoglossina oblongus</u>				1/1	99/16	1541/51	532/25	552/35		
<u>Scophthalmus aquosus</u>	2540/58	7/5	17/8	1270/33	123/17	128/12	75/17	2058/39	984/47	
<u>Syacium papillosum</u>	6/4		4/2	363/9	273/9	262/15		499/18	73/8	
dusky flounder										

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Pleuronectidae										
<u>Glyptocephalus cynoglossus</u>	witch flounder			90/26	568/38	575/34	127/26	8/6	4/3	
<u>Hippoglossoides platessoides</u>	American plaice				101/10					
<u>Limanda ferruginea</u>	yellowtail flounder		1/1	2549/45	10691/67	11088/50	217/25	4/3		
<u>Pseudopleuronectes americanus</u>	winter flounder			1837/30	736/21	360/7				
Cynoglossidae										
<u>Symphurus</u> sp.	tonguefishes	29/9	8/2	26/4	295/10	63/10	357/33		124/20	100/10
Tetraodontiformes										
Ballistidae	filefishes and triggerfishes	+/1	+/2		+/11	+/16	+/15		+/10	+/1
Tetraodontidae	puffers	+/2	+/1	+/2	+/5	+/13	+/6	+/1	+/7	+/2
Unidentified		+/27	+/17	+/43	+/56	+/46	+/65	+/20	+/61	+/21

Table 2. Physical conditions and sampling data associated with plankton collections.

CRUISE D6504 STA.	TOW DEPTH (M)	DATE 1945	TOW START EST	LIGHT COND.	WATER DEPTH (M)	***** TEMPERATURE (C) *****				THERMOCLINE DEGREE	SALINITY (O/100)	POSITION LAT. LONG.	** SUN RISE SET		
						RANGE	MEAN	SURF.	BOT.					RANGE	PEAK
C 1	0-6	3 12	2243	NIGHT	19	8.1- 8.1	8.1	8.1	8.0	NONE	30.1-32.0	30.7	32.0	4035 73 17	0659 1626
C 2	0-15	3 12	2353	NIGHT	27	8.2- 8.2	8.2	8.2	8.3	NONE	30.0-30.4	30.2	30.3	4031 73 14	0659 1626
C 3	0-15	4 12	0137	NIGHT	33	8.0- 8.2	8.1	8.0	8.0	NONE	30.0-30.2	30.1	30.0	4027 73 10	0659 1627
C 3	18-33	4 12	0137	NIGHT	33	8.0- 8.2	8.1	8.0	8.0	NONE	30.2-30.5	30.4	30.0	4027 73 10	0659 1627
C 4	0-15	4 12	0312	NIGHT	38	8.4- 8.4	8.4	8.4	8.4	NONE	29.0-29.2	29.1	29.2	4019 73 03	0702 1630
C 4	18-33	4 12	0312	NIGHT	38	8.4- 8.4	8.4	8.4	8.4	NONE	28.7-29.1	28.9	29.2	4019 73 03	0702 1630
C 5	0-15	4 12	0449	NIGHT	48	10.9-11.0	10.9	9.5	9.6	NONE	29.6-30.0	29.7	30.0	4010 72 55	0657 1626
C 5	18-33	4 12	0449	NIGHT	48	10.7-11.0	10.9	9.5	9.6	NONE	29.7-30.0	29.8	30.0	4010 72 55	0657 1626
C 6	0-15	4 12	0702	DAY	56	10.0-10.0	10.0	10.0	10.0	NONE	30.0-30.4	30.2	30.4	3958 72 44	0656 1626
C 6	18-33	4 12	0702	DAY	56	10.0-10.0	10.0	10.0	10.0	NONE	29.9-30.2	30.1	30.4	3958 72 44	0656 1626
C 7	0-15	4 12	0928	DAY	78	9.9- 9.9	9.9	9.9	9.3	NONE	29.7-30.3	30.1	29.7	3946 72 33	0654 1626
C 7	18-33	4 12	0928	DAY	78	9.9- 9.9	9.9	9.9	9.3	NONE	29.8-30.2	30.0	29.7	3946 72 33	0654 1626
C 8	0-15	4 12	1536	DAY	116	9.9- 9.9	9.9	9.9	9.7	NONE	29.9-30.1	29.9	29.9	3934 72 22	0654 1626
C 8	18-33	4 12	1536	DAY	116	9.9- 9.9	9.9	9.9	9.7	NONE	29.9-30.1	30.0	29.9	3934 72 22	0654 1626
D 1	0-6	5 12	1458	DAY	11	7.7- 7.7	7.7	7.7	7.8	NONE	29.0-29.1	29.1	29.0	3951 74 04	0704 1635
D 2	0-9	5 12	1557	DAY	18	7.9- 8.0	7.9	8.0	7.9	NONE	29.0-29.6	29.3	28.9	3948 73 59	0701 1632
D 3	0-15	5 12	1718	NIGHT	25	8.5- 8.9	8.9	8.9	8.9	NONE	29.6-29.9	29.8	29.9	3945 73 54	0701 1632
D 4	0-15	5 12	1905	NIGHT	33	8.5- 8.5	8.5	8.5	8.5	NONE	29.3-29.7	29.5	29.7	3939 73 43	0700 1631
D 4	18-24	5 12	1905	NIGHT	33	8.5- 8.5	8.5	8.5	8.5	NONE	29.4-29.7	29.5	29.7	3939 73 43	0700 1631
D 5	0-15	5 12	2049	NIGHT	37	9.3- 9.3	9.3	9.3	9.3	NONE	29.5-30.0	29.8	29.5	3932 73 32	0659 1630
D 5	18-33	5 12	2049	NIGHT	37	9.3- 9.3	9.3	9.3	9.3	NONE	29.6-29.9	29.8	29.5	3932 73 31	0659 1630
D 6	0-15	5 12	2319	NIGHT	54	9.7- 9.7	9.7	9.7	10.0	NONE	29.2-29.6	29.3	29.5	3923 73 19	0657 1630
D 6	18-33	5 12	2319	NIGHT	54	9.7- 9.7	9.7	9.7	10.0	NONE	29.4-29.8	29.6	29.5	3923 73 19	0657 1630
D 7	0-15	6 12	0118	NIGHT	72	10.4-10.5	10.4	10.5	10.4	NONE	29.9-30.0	29.9	29.9	3914 73 02	0701 1633
D 7	18-33	6 12	0118	NIGHT	72	10.4-10.4	10.4	10.5	10.4	NONE	29.9-30.2	30.0	29.9	3914 73 03	0701 1633
D 8	0-15	6 12	0312	NIGHT	102	10.5-10.5	10.5	10.5	11.4	NONE	30.0-30.0	30.0	30.0	3906 72 50	0658 1628
D 8	18-33	6 12	0312	NIGHT	102	10.5-11.7	10.8	10.5	11.4	NONE	30.1-30.2	30.1	30.0	3906 72 50	0658 1628
E 1	0-6	7 12	0206	NIGHT	13	7.9- 7.9	7.9	7.9	7.9	NONE	29.1-29.2	29.2	29.1	3917 74 31	0704 1635
E 2	0-6	7 12	0118	NIGHT	17	8.4- 8.4	8.4	8.4	8.4	NONE	29.0-29.1	29.0	29.0	3914 74 25	0704 1635
F 3	0-6	7 12	0402	NIGHT	19	8.8- 8.8	8.8	8.8	8.8	NONE	29.2-29.4	29.3	29.2	3911 74 20	0703 1634
E 4	0-15	6 12	2222	NIGHT	35	9.3- 9.3	9.3	9.3	9.3	NONE	29.4-29.9	29.5	29.6	3905 74 05	0701 1634
E 5	0-15	6 12	2035	NIGHT	39	9.3- 9.3	9.3	9.3	9.3	NONE	29.3-29.5	29.4	29.2	3859 73 59	0700 1634
E 5	18-33	6 12	2035	NIGHT	39	9.3- 9.3	9.3	9.3	9.3	NONE	29.2-29.7	29.4	29.2	3859 73 59	0700 1634
E 6	0-15	6 12	1748	NIGHT	42	9.4- 9.4	9.4	9.4	9.4	NONE	29.2-29.5	29.4	29.2	3854 73 49	0659 1633
E 6	18-24	6 12	1748	NIGHT	42	9.4- 9.4	9.4	9.4	9.4	NONE	29.2-29.5	29.3	29.2	3854 73 45	0659 1633
F 7	0-15	6 12	1530	DAY	67	10.5-10.5	10.5	10.5	10.5	NONE	29.8-30.2	29.9	29.8	3845 73 33	0657 1632
E 7	18-33	6 12	1530	DAY	67	10.5-10.7	10.6	10.5	10.5	NONE	29.8-30.2	30.0	29.7	3845 73 33	0657 1632
E 8	0-15	6 12	1013	DAY	103	10.6-10.6	10.6	10.6	11.1	GRADUAL	29.7-30.1	30.0	29.7	3836 73 18	0656 1632
E 8	18-33	6 12	1013	DAY	103	10.6-12.2	11.2	10.6	11.1	GRADUAL	29.9-30.5	30.0	29.7	3836 73 18	0656 1632
F 1	0-9	9 12	1707	NIGHT	17	7.2- 7.3	7.3	7.3	7.0	NONE	28.4-28.6	28.5	28.3	3846 75 03	0706 1638
F 2	0-9	9 12	1803	NIGHT	17	7.3- 7.4	7.3	7.3	7.4	NONE	24.3-24.6	24.5	24.3	3843 74 58	0706 1638
F 3	0-15	9 12	1901	NIGHT	28	7.5- 8.2	8.1	7.9	8.3	NONE	25.4-25.6	25.5	25.3	3840 74 52	0705 1638
F 4	0-15	10 12	0119	NIGHT	20	9.1- 9.2	9.2	9.2	9.1	NONE	30.1-30.2	30.1	30.1	3835 74 41	0706 1638
F 5	0-15	10 12	0243	NIGHT	34	9.4- 9.4	9.4	9.4	9.4	NONE	30.1-30.2	30.1	30.0	3829 74 30	0704 1637
F 5	18-33	10 12	0243	NIGHT	34	9.4- 9.4	9.4	9.4	9.4	NONE	30.1-30.4	30.2	30.0	3829 74 30	0704 1637
F 6	0-15	10 12	0745	DAY	46	9.7- 9.7	9.7	9.7	10.0	NONE	30.6-31.4	30.9	31.3	3821 74 13	0702 1637
F 6	18-33	10 12	0745	DAY	46	9.7-10.0	9.8	9.7	10.0	NONE	30.4-32.1	30.8	31.3	3821 74 13	0702 1637
F 7	0-15	10 12	1005	DAY	68	10.2-10.2	10.2	10.2	10.9	NONE	31.6-32.1	31.7	31.6	3813 73 51	0702 1636
F 7	18-33	10 12	1005	DAY	68	10.2-10.2	10.2	10.2	10.9	NONE	31.9-33.2	32.1	31.6	3813 73 51	0702 1636
G 1	0-3	11 12	0203	NIGHT	11	8.4- 8.5	8.5	8.5	8.4	NONE	31.0-31.1	31.0	31.1	3807 75 05	0707 1641
G 2	0-3	11 12	0118	NIGHT	12	9.0- 9.1	9.0	9.0	9.1	NONE	29.6-29.8	29.7	29.5	3804 75 04	0706 1641
G 3	0-6	10 12	2302	NIGHT	18	9.8-10.0	9.9	10.0	9.5	NONE	30.1-30.4	30.3	30.0	3801 74 59	0705 1641
G 4	0-15	10 12	2126	NIGHT	25	10.1-10.2	10.2	10.1	10.2	NONE	31.8-32.2	32.0	32.2	3756 74 41	0703 1640
G 5	0-15	10 12	1754	NIGHT	48	10.0-10.0	10.0	10.0	10.0	NONE	31.0-31.5	31.3	31.4	3750 74 38	0704 1640
G 5	18-33	10 12	1754	NIGHT	48	10.0-10.0	10.0	10.0	10.0	NONE	31.4-32.8	32.3	31.4	3750 74 38	0704 1640
G 6	0-15	10 12	1605	DAY	75	10.5-10.5	10.5	10.5	11.0	NONE	31.2-32.0	31.7	31.9	3742 74 22	0702 1639
G 6	18-33	10 12	1605	DAY	79	10.5-10.5	10.5	10.5	11.0	NONE	31.4-33.6	32.4	31.9	3742 74 22	0702 1639
H 1	0-6	11 12	0632	NIGHT	8	8.4- 8.8	8.6	8.8	8.0	GRADUAL	28.6-28.8	28.7	28.8	3734 75 33	0707 1644
H 2	0-6	11 12	0718	DAY	15	9.8- 9.9	9.9	9.8	9.9	NONE	29.7-29.8	29.7	29.7	3732 75 28	0707 1644
H 3	0-6	11 12	0812	DAY	23	10.6-10.9	10.9	10.8	10.9	NONE	28.3-28.4	28.3	28.3	3730 75 22	0706 1643
H 4	0-15	11 12	1237	DAY	25	10.7-10.7	10.7	10.7	10.7	NONE	28.1-30.0	29.2	28.1	3727 75 10	0705 1643
H 5	0-15	11 12	1409	DAY	38	11.2-11.5	11.4	11.5	11.2	NONE	33.4-33.6	33.5	33.5	3723 74 56	0704 1642
H 5	18-24	11 12	1409	DAY	38	11.2-11.2	11.2	11.5	11.2	NONE			33.5	3723 74 58	0704 1642
H 6	0-15	11 12	1802	NIGHT	77	10.5-10.5	10.5	10.5	11.0	NONE	33.6-34.0	33.9	33.6	3718 74 40	0703 1642
H 6	18-33	11 12	1802	NIGHT	77	10.5-10.5	10.5	10.5	11.0	NONE	33.9-34.0	34.0	33.8	3718 74 40	0703 1642
H 7	0-15	11 12	1949	NIGHT	110	10.7-10.7	10.7	10.7	11.3	NONE	33.0-33.6	33.3	33.0	3716 74 34	0702 1641
H 7	18-33	11 12	1949	NIGHT	110	10.7-10.7	10.7	10.7	11.3	NONE	33.3-33.7	33.5	33.0	3716 74 34	0702 1641
J 1	0-3	12 12	1813	NIGHT	9	9.7- 9.9	9.8	9.7	10.2	NONE	29.8-30.4	30.1	29.8	3655 75 58	0704 1644
J 2	0-3	12 12	1900	NIGHT	9	9.8-10.2	10.0	9.8	10.8	NONE	30.3-30.8	30.6	30.3	3655 75 52	0707 1647
J 3	0-6	12 12	1030	DAY	16	10.0-10.9	10.5	10.0	10.9	NONE	30.5-32.1	31.4	30.5	3654 75 45	0707 1647
J 4	0-6	12 12	0902	DAY	17	10.5-11.0	11.0	10.9	11.0	NONE	32.8-32.8	32.8	32.8	3653 75 33	0706 1646
J 5	0-15	12 12	0537	NIGHT	26	10.8-10.9	10.8	10.9	10.8	NONE	32.5-34.0	33.1	34.0	3652 75 21	0705 1645
J 6	0-15	12 12	0318	NIGHT	35	11.0-11.0	11.0	11.0	11.0	NONE	33.0-33.3	33.2	33.0	3650 75 02	0703 1644
J 6	18-24	12 12	0318	NIGHT	35	11.0-11.0	11.0	11.0	11.0	NONE	33.0-33.1	33.0	33.0	3650 75 02	0703 1644
J 7	0-15	11 12	2309	NIGHT	85	10.5-10.5	10.5	10.5	11.3	NONE	32.5-33.3	33.0	32.5	3648 74 44	0702 1643
J 7	18-33	11 12	2309	NIGHT	85	10.5-10.5	10.5	10.5	11.3	NONE	33.4-33.7	33.6	32.5	3648 74 44	0702 1643

TABLE 2. (continued)

CRUISE D6504 STA.	TOW DEPTH (M)	DATE 1965 D M	TOW START FST	LIGHT COND.	WATER DEPTH (M)	***** TEMPERATURE (C) *****				THERMOCLINE DEGREE	THERMOCLINE DEPTH (M)	**** SALINITY (0/00)		**** SURF.	POSITION		** SUN **	
						RANGE	MEAN	SURF.	BOT.			RANGE	MEAN		LAT.	LONG.	RISE	SET
K 4	18-24	13 12	0410	NIGHT	31	11.9-11.9	11.9	12.0	11.9	NONE	-	34.3-34.5	34.5	33.9	3622	75 23	0705	1647
K 5	0-15	13 12	0607	NIGHT	35	11.3-11.5	11.3	11.5	11.3	NONE	-	32.5-32.9	32.6	32.9	3622	75 11	0704	1646
K 5	18-24	13 12	0607	NIGHT	35	11.3-11.3	11.3	11.5	11.3	NONE	-	32.7-32.9	32.8	32.9	3622	75 11	0704	1646
K 6	0-15	13 12	0948	DAY	48	11.3-11.4	11.3	11.4	11.2	NONE	-	32.8-33.1	33.0	32.8	3621	74 58	0703	1645
K 6	18-33	13 12	0948	DAY	48	11.3-11.3	11.3	11.4	11.2	NONE	-	33.2-33.3	33.2	32.8	3621	74 58	0703	1645
K 7	0-15	13 12	1138	DAY	260	10.3-10.3	10.3	10.3	10.5	NONE	-	33.4-33.6	33.5	33.4	3621	74 46	0702	1644
K 7	18-33	13 12	1138	DAY	260	10.3-10.3	10.3	10.3	10.5	NONE	-	33.6-33.6	33.6	33.4	3621	74 46	0702	1644
L 1	0-6	13 12	1939	NIGHT	18	11.3-11.5	11.4	11.3	11.7	NONE	-	33.6-34.6	34.2	34.6	3546	75 30	0703	1649
L 2	0-6	13 12	2044	NIGHT	24	11.9-11.9	11.9	11.9	11.9	NONE	-	33.9-34.3	34.1	33.9	3546	75 24	0702	1649
L 3	0-15	13 12	2152	NIGHT	35	12.1-12.4	12.3	12.4	12.2	NONE	-	34.1-34.2	34.2	34.2	3546	75 17	0702	1648
L 3	18-24	13 12	2152	NIGHT	35	12.2-12.2	12.2	12.4	12.2	NONE	-	33.9-34.1	34.0	34.2	3546	75 17	0702	1648
L 4	0-15	14 12	0125	NIGHT	43	11.8-12.2	12.0	12.2	11.8	NONE	-	33.8-33.8	33.8	33.8	3545	75 05	0702	1647
L 4	18-33	14 12	0125	NIGHT	43	11.8-11.8	11.8	12.2	11.8	NONE	-	33.8-33.9	33.8	33.8	3545	75 05	0702	1647
L 5	0-15	14 12	0315	NIGHT	105	11.5-12.5	11.7	11.8	12.7	-	-	33.9-34.4	34.0	33.9	3545	74 52	0701	1646
L 5	18-33	14 12	0315	NIGHT	105	12.4-12.4	12.4	11.8	12.7	-	-	34.7-35.0	34.9	33.9	3545	74 52	0701	1646
M 1	0-3	14 12	1838	NIGHT	13	12.4-12.4	12.4	12.4	12.5	NONE	-	34.1-34.4	34.2	34.1	3518	75 29	0707	1651
M 2	0-9	14 12	1720	NIGHT	18	12.6-12.7	12.6	12.7	12.6	NONE	-	-	-	34.1	3516	75 23	0702	1651
M 3	0-15	14 12	1553	DAY	20	12.7-12.8	12.7	12.8	12.7	NONE	-	33.2-34.5	33.6	34.5	3514	75 18	0701	1650
M 4	0-15	14 12	1445	DAY	26	13.0-13.1	13.1	13.1	12.8	NONE	-	34.1-34.5	34.2	34.5	3512	75 12	0701	1650
M 4	18-24	14 12	1445	DAY	26	12.8-13.0	12.9	13.1	12.8	NONE	-	34.2-34.2	34.2	34.5	3512	75 12	0701	1650
M 5	0-15	14 12	1235	DAY	90	23.1-23.1	23.1	23.1	20.1	GRADUAL	-	-	-	3510	75 07	0700	1649	
M 5	18-33	14 12	1235	DAY	90	22.5-23.1	22.8	23.1	20.1	GRADUAL	-	-	-	3510	75 07	0700	1649	
N 1	0-6	15 12	0005	NIGHT	19	14.3-14.4	14.3	14.4	14.3	NONE	-	34.6-34.8	34.7	34.6	3501	75 57	0700	1650
N 2	0-15	15 12	0058	NIGHT	24	18.4-18.8	18.5	18.4	19.4	NONE	-	35.1-35.8	35.5	35.1	3456	75 55	0700	1650
N 3	0-15	15 12	0341	NIGHT	25	17.5-17.5	17.5	17.5	17.8	NONE	-	35.3-36.5	35.8	36.5	3451	75 52	0703	1653
N 4	0-15	15 12	0520	NIGHT	45	19.1-20.6	20.1	20.6	17.6	GRADUAL	-	36.3-36.8	36.6	36.8	3442	75 48	0703	1654
N 4	18-33	15 12	0520	NIGHT	45	17.6-18.9	18.2	20.6	17.6	GRADUAL	-	36.1-36.2	36.1	36.8	3442	75 48	0703	1654
N 5	0-15	15 12	0900	DAY	128	20.5-20.5	20.5	20.5	17.0	GRADUAL	-	36.3-36.3	36.3	36.3	3433	75 44	0702	1654
N 5	18-33	15 12	0900	DAY	128	19.5-20.4	20.2	20.5	17.0	GRADUAL	-	36.3-36.3	36.3	36.3	3433	75 44	0702	1654
P 1	0-3	15 12	2051	NIGHT	15	12.6-12.7	12.7	12.7	12.6	NONE	-	35.4-35.5	35.5	35.5	3438	75 40	0706	1658
P 2	0-6	15 12	1935	NIGHT	17	15.3-16.3	15.8	16.3	15.0	WEAK	5-9	36.2-36.4	36.3	36.4	3429	76 32	0705	1657
P 3	0-15	15 12	1810	NIGHT	26	14.6-18.4	16.9	18.4	14.4	GRADUAL	-	36.2-36.2	36.2	36.2	3421	76 26	0705	1658
P 4	0-15	15 12	1630	DUSK	34	22.4-23.2	23.0	23.2	19.3	GRADUAL	-	36.9-37.5	37.1	36.9	3413	76 20	0703	1657
P 4	18-33	15 12	1630	DUSK	34	19.3-22.3	21.5	23.2	19.3	GRADUAL	-	-	-	36.9	3413	75 20	0703	1657
P 5	0-15	15 12	1335	DAY	82	25.4-25.4	25.4	25.4	23.5	GRADUAL	-	37.4-37.8	37.6	37.8	3404	76 13	0703	1657
P 5	18-33	15 12	1335	DAY	82	25.4-25.4	25.4	25.4	23.5	GRADUAL	-	37.2-37.7	37.5	37.8	3404	76 13	0703	1657

TABLE 2. (continued)

CRUISE D6601 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START EST	LIGHT COND.	WATER DEPTH (M)	**** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	**** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	26 1	1627	DUSK	16	1.1-1.1	1.1	1.1	1.1	NONE	-	32.3-32.3	32.3	32.3	4117 7048	0700 1651
A 2	0-15	26 1	1729	NIGHT	33	0.8-0.9	0.9	0.8	0.9	NONE	-	32.4-32.4	32.4	32.4	4112 7047	0700 1652
B 1	0-15	26 1	0653	DAWN	22	1.6-2.1	1.8	1.6	2.1	NONE	-	30.9-31.6	31.2	30.9	4103 7151	0704 1656
B 2	0-15	26 1	0542	NIGHT	34	2.4-2.5	2.4	2.5	2.7	NONE	-	32.0-32.2	32.1	32.2	4058 7149	0703 1656
B 3	0-15	26 1	0429	NIGHT	48	3.2-3.2	3.2	3.2	3.2	NONE	-	32.3-32.3	32.3	32.3	4054 7147	0703 1656
B 3	18-33	26 1	0429	NIGHT	48	3.2-3.2	3.2	3.2	3.2	NONE	-	32.3-32.4	32.3	32.3	4054 7147	0703 1656
B 4	0-15	26 1	0254	NIGHT	60	4.1-4.1	4.1	4.1	4.1	NONE	-	32.3-32.3	32.3	32.3	4044 7144	0703 1657
B 4	18-33	26 1	0254	NIGHT	60	4.1-4.1	4.1	4.1	4.1	NONE	-	31.9-32.3	32.2	32.3	4044 7144	0703 1657
B 5	0-15	26 1	0115	NIGHT	73	4.8-4.8	4.8	4.8	4.8	NONE	-	32.3-32.5	32.4	32.3	4034 7140	0702 1657
B 5	18-33	26 1	0115	NIGHT	73	4.8-4.8	4.8	4.8	4.8	NONE	-	32.3-32.4	32.4	32.3	4034 7140	0702 1657
B 6	0-15	25 1	2347	NIGHT	80	4.9-4.9	4.9	4.9	4.9	NONE	-	32.3-32.3	32.3	32.3	4020 7135	0701 1655
B 6	18-33	25 1	2347	NIGHT	80	4.9-4.9	4.9	4.9	4.9	NONE	-	32.3-32.4	32.4	32.3	4020 7135	0701 1655
B 7	0-15	25 1	2144	NIGHT	89	4.8-4.8	4.8	4.8	4.8	NONE	-	32.3-32.4	32.4	32.4	4005 7129	0701 1656
B 7	18-33	25 1	2144	NIGHT	89	4.8-4.8	4.8	4.8	4.8	NONE	-	32.4-32.5	32.4	32.4	4005 7129	0701 1656
C 1	0-15	2 2	0106	NIGHT	21	-0.8-0.9	0.3	-0.8	0.9	WEAK	2-9	30.7-32.6	31.9	30.7	4035 7317	0702 1711
C 2	0-15	2 2	0158	NIGHT	26	-0.3-1.7	1.4	-0.3	1.7	WEAK	0-5	31.7-32.5	32.3	31.7	4031 7314	0702 1711
C 3	0-15	2 2	0257	NIGHT	32	1.5-2.0	1.8	1.5	2.1	NONE	-	32.2-32.5	32.3	32.3	4027 7310	0702 1712
C 3	18-24	2 2	0257	NIGHT	32	2.1-2.1	2.1	1.5	2.1	NONE	-	32.4-32.5	32.4	32.3	4027 7310	0702 1712
C 4	0-15	3 2	2042	NIGHT	39	3.0-3.1	3.0	3.1	3.0	NONE	-	32.4-32.6	32.5	32.4	4019 7303	0704 1716
C 4	18-24	3 2	2042	NIGHT	39	3.0-3.0	3.0	3.1	3.0	NONE	-	32.3-32.6	32.5	32.4	4019 7303	0704 1716
C 5	0-15	3 2	2208	NIGHT	48	3.8-3.8	3.8	3.8	3.8	NONE	-	32.4-32.6	32.5	32.5	4010 7255	0659 1712
C 5	18-33	3 2	2208	NIGHT	48	3.8-3.8	3.8	3.8	3.8	NONE	-	32.5-32.6	32.6	32.5	4010 7255	0659 1712
C 6	0-15	4 2	0010	NIGHT	57	4.3-4.3	4.3	4.3	4.2	NONE	-	32.5-32.6	32.6	32.6	3958 7244	0657 1713
C 6	18-33	4 2	0010	NIGHT	57	4.2-4.2	4.2	4.3	4.2	NONE	-	32.6-32.6	32.6	32.6	3958 7244	0657 1713
C 7	0-15	4 2	0220	NIGHT	67	4.7-5.0	4.8	4.7	7.1	WEAK	47-56	32.6-32.7	32.6	32.6	3946 7233	0656 1712
C 7	18-33	4 2	0220	NIGHT	67	5.0-5.0	5.0	4.7	7.1	WEAK	47-56	32.6-32.8	32.7	32.6	3946 7233	0656 1712
C 8	0-15	4 2	0408	NIGHT	110	5.8-5.8	5.8	5.8	7.8	WEAK	83-88	33.1-33.3	33.2	33.1	3934 7222	0655 1713
C 8	18-33	4 2	0408	NIGHT	110	5.8-5.8	5.8	5.8	7.8	WEAK	83-88	33.2-33.3	33.2	33.1	3934 7222	0655 1713
D 1	0-6	4 2	1729	NIGHT	16	0.8-0.9	0.9	0.8	0.9	NONE	-	31.8-31.9	31.9	31.8	3951 7404	0706 1722
D 2	0-6	4 2	1816	NIGHT	22	1.4-1.4	1.4	1.4	1.5	NONE	-	32.5-32.5	32.5	32.4	3948 7359	0702 1718
D 3	0-15	4 2	1910	NIGHT	25	1.5-1.9	1.9	1.9	1.9	NONE	-	32.7-32.8	32.7	32.7	3945 7354	0701 1718
D 4	0-15	4 2	2028	NIGHT	27	2.4-2.4	2.4	2.4	2.4	NONE	-	32.6-33.0	32.9	32.9	3939 7343	0700 1718
D 5	0-15	4 2	2220	NIGHT	37	2.9-2.9	2.9	2.9	2.9	NONE	-	32.9-33.1	32.9	32.8	3932 7333	0659 1717
D 5	18-24	4 2	2220	NIGHT	37	2.9-2.9	2.9	2.9	2.9	NONE	-	33.3-33.5	33.5	32.8	3932 7333	0659 1717
D 6	0-15	4 2	1210	DAY	50	3.2-3.2	3.2	3.2	3.1	NONE	-	32.6-32.7	32.6	32.6	3923 7319	0658 1716
D 6	18-33	4 2	1210	DAY	50	3.1-3.1	3.1	3.2	3.1	NONE	-	32.7-33.1	32.9	32.9	3914 7303	0700 1719
D 7	0-15	4 2	1016	DAY	70	4.8-4.8	4.8	4.8	7.1	WEAK	47-55	32.9-33.3	33.0	32.9	3914 7303	0700 1719
D 7	18-33	4 2	1016	DAY	70	4.8-4.9	4.8	4.8	7.1	WEAK	47-55	33.1-33.3	33.1	32.9	3914 7303	0700 1719
D 8	0-15	4 2	0827	DAY	110	4.8-5.0	4.9	4.8	7.2	WEAK	91-99	33.0-33.2	33.1	33.0	3906 7250	0655 1715
D 8	18-33	4 2	0827	DAY	110	5.0-5.1	5.0	4.8	7.2	WEAK	91-99	33.2-33.4	33.3	33.0	3906 7250	0655 1715
E 1	0-6	5 2	0321	NIGHT	14	-1.8-1.6	-1.8	-1.8	-1.6	NONE	-	30.5-30.7	30.6	30.7	3917 7431	0702 1722
E 2	0-6	5 2	0415	NIGHT	17	-1.4-1.3	-1.3	-1.4	-1.2	NONE	-	31.6-31.7	31.7	31.6	3914 7425	0701 1723
E 3	0-6	5 2	0508	NIGHT	20	-0.5-0.5	-0.5	-0.5	-0.5	NONE	-	31.0-33.2	32.3	31.0	3911 7420	0700 1722
E 4	0-15	5 2	0635	DAWN	30	1.3-1.3	1.3	1.3	1.3	NONE	-	32.5-33.3	32.9	33.0	3905 7405	0700 1722
E 5	0-15	5 2	0804	DAY	37	2.9-2.9	2.9	2.9	2.9	NONE	-	32.6-33.3	32.8	32.8	3859 7359	0659 1721
E 5	18-24	5 2	0804	DAY	37	2.9-2.9	2.9	2.9	2.9	NONE	-	33.2-33.8	33.6	32.8	3859 7359	0659 1721
E 6	0-15	5 2	0933	DAY	42	3.9-3.9	3.9	3.9	3.9	NONE	-	32.7-33.7	33.1	32.6	3854 7345	0658 1720
E 6	18-24	5 2	0933	DAY	42	3.9-3.9	3.9	3.9	3.9	NONE	-	33.9-34.0	33.9	32.6	3854 7345	0658 1720
E 7	0-15	5 2	1126	DAY	66	4.8-4.9	4.8	4.8	6.4	GR ADUAL	-	33.6-34.0	33.9	33.6	3845 7333	0656 1719
E 7	18-33	5 2	1126	DAY	66	4.5-5.3	5.0	4.8	6.4	GR ADUAL	-	33.5-34.2	33.8	33.6	3845 7333	0656 1719
E 8	0-15	5 2	1326	DAY	121	5.6-5.6	5.6	5.6	5.6	NONE	-	33.6-33.6	33.6	33.6	3836 7318	0655 1719
E 8	18-33	5 2	1326	DAY	121	5.6-5.6	5.6	5.6	5.6	NONE	-	33.6-33.7	33.6	33.6	3836 7318	0655 1719
F 2	0-6	6 2	0520	NIGHT	22	-1.6-1.6	-1.6	-1.6	-1.3	NONE	-	30.7-31.8	31.2	30.7	3843 7458	0701 1727
F 3	0-15	6 2	0359	NIGHT	24	-1.4-0.6	-1.2	-1.4	0.5	NONE	-	31.1-32.4	31.6	31.2	3840 7452	0700 1726
F 4	0-15	6 2	0242	NIGHT	26	0.7-0.9	0.8	0.8	0.8	NONE	-	32.6-33.2	32.7	32.6	3835 7441	0700 1726
F 5	0-15	6 2	0108	NIGHT	34	1.5-1.8	1.7	1.6	1.5	NONE	-	32.6-33.2	33.0	32.6	3829 7430	0659 1725
F 5	18-24	6 2	0108	NIGHT	34	1.5-1.5	1.5	1.6	1.5	NONE	-	33.2-33.4	33.3	32.6	3829 7430	0659 1725
F 6	0-15	5 2	2246	NIGHT	52	5.1-5.1	5.1	5.1	5.1	NONE	-	33.3-34.3	33.7	33.3	3821 7413	0659 1723
F 6	18-33	5 2	2246	NIGHT	52	5.1-5.1	5.1	5.1	5.1	NONE	-	33.8-34.1	34.0	33.3	3821 7413	0659 1723
F 7	0-15	5 2	1747	NIGHT	78	5.4-5.4	5.4	5.4	6.3	NONE	-			34.5	3813 7357	0658 1722
F 7	18-33	5 2	1747	NIGHT	78	5.4-5.4	5.4	5.4	6.3	NONE	-			34.5	3813 7357	0657 1723
G 1	0-6	6 2	0946	DAY	13	-0.1-0.1	-0.1	-0.1	-0.1	NONE	-	32.5-32.5	32.5	32.4	3807 7505	0701 1729
G 2	0-6	6 2	1946	DAY	16	0.8-0.8	0.8	0.8	0.8	NONE	-	33.3-33.3	33.3	33.2	3804 7504	0700 1728
G 3	0-15	6 2	1147	DAY	21	1.1-1.2	1.2	1.1	1.1	NONE	-	33.3-33.5	33.4	33.4	3801 7459	0700 1728
G 4	0-15	6 2	0103	NIGHT	27	2.6-2.7	2.6	2.6	2.8	NONE	-	32.7-33.3	33.0	32.7	3756 7448	0659 1727
G 5	0-15	6 2	1428	DAY	52	3.6-3.7	3.6	3.6	4.3	NONE	-	33.0-33.2	33.1	33.0	3750 7438	0659 1728
G 5	18-33	6 2	1428	DAY	52	3.9-4.1	4.0	3.6	4.3	NONE	-	33.4-33.9	33.7	33.0	3750 7438	0659 1728
G 6	0-15	6 2	1611	DAY	86	5.5-5.5	5.5	5.5	5.3	NONE	-	33.8-34.1	33.9	33.7	3742 7422	0658 1727
G 6	18-33	6 2	1611	DAY	86	5.3-5.5	5.4	5.5	5.3	NONE	-	34.2-34.5	34.3	33.7	3742 7422	0658 1727
H 1	0-6	7 2	0253	NIGHT	11	-0.2-0.4	-0.2	-0.2	0.2	NONE	-	31.5-31.7	31.6	31.5	3734 7533	0700 1732
H 2	0-6	7 2	0200	NIGHT	16	0.5-0.7	0.6	0.5	0.7	NONE	-	31.6-32.0	31.8	31.6	3732 7528	0700 1732
H 3	0-6	7 2	0059	NIGHT	22	1.5-1.6	1.6	1.5	1.6	NONE	-	32.2-32.4	32.3	32.2	3730 7522	0659 1731
H 4	0-15	6 2	2332	NIGHT	27	2.8-2.8	2.8	2.8	2.8	NONE	-	32.7-33.0	32.9	32.7	3727 7510	0700 1730
H 5	0-15	6 2	2206	NIGHT	35	4.5-4.7	4.6	4.5	4.7	NONE	-	33.2-33.6	33.4	33.1	3723 7458	0659 1729
H 5	18-24	6 2	2206	NIGHT	35	4.7-4.7	4.7	4.5	4.7	NONE	-	33.5-33.5	33.5	33.1	3723 7458	0659 1729
H 6	0-15	6 2	2011	NIGHT	83	5.5-5.8	5.7	5.8	5.5	NONE	-	34.0-34.2	34.1			

TABLE 2. (continued)

CRUISE 6601 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START EST	LIGHT COND.	WATER DEPTH (M)	**** TEMPERATURE (C) ****				THERMOCLINE DEPTH (M)	**** SALINITY (0/00) ****			POSITION		** SUN **	
						RANGE	MEAN	SURF.	BOT.		DEGREE	RANGE	MEAN	SURF.	LAT.	LONG.	RISE
J 1	0-6	7 2	0721	DAY	11	0.4-0.7	0.5	0.7	0.4	NONE	30.2-30.8	30.4	30.7	3655	7558	0657	1731
J 2	0-6	7 2	0812	DAY	12	0.6-0.6	0.6	0.6	0.6	NONE	30.0-30.4	30.2	30.0	3655	7552	0700	1736
J 3	0-6	7 2	0906	DAY	12	1.1-1.2	1.2	1.1	1.2	NONE	31.5-31.7	31.6	31.4	3654	7545	0700	1734
J 4	0-15	7 2	1030	DAY	20	2.4-2.6	2.4	2.6	2.4	NONE	32.3-32.7	32.6	32.2	3653	7533	0659	1733
J 5	0-15	7 2	1143	DAY	26	3.5-3.6	3.5	3.6	3.5	NONE	32.9-33.0	33.0	32.9	3652	7521	0658	1732
J 6	0-15	7 2	1321	DAY	35	5.1-5.4	5.1	5.4	5.3	NONE	33.4-33.6	33.5	33.4	3650	7502	0657	1731
J 6	18-24	7 2	1321	DAY	35	5.1-5.3	5.2	5.4	5.3	NONE	33.4-33.7	33.6	33.4	3650	7502	0657	1731
J 7	0-15	7 2	1514	DAY	84	7.1-7.3	7.2	7.1	7.7	-	33.7-34.2	33.9	33.7	3648	7444	0656	1731
J 7	18-33	7 2	1514	DAY	84	7.4-8.4	7.7	7.1	7.7	-	34.0-34.5	34.1	33.7	3648	7444	0656	1731
K 1	0-6	8 2	0138	NIGHT	15	1.5-1.6	1.5	1.6	1.5	NONE	30.9-31.2	31.1	30.9	3623	7548	0659	1736
K 2	0-15	8 2	0038	NIGHT	25	1.5-1.9	1.6	1.8	2.1	NONE	31.2-32.1	31.6	31.2	3623	7542	0659	1736
K 3	0-15	7 2	2332	NIGHT	22	3.4-3.8	3.5	3.8	3.4	NONE	32.6-32.6	32.6	32.6	3622	7536	0659	1734
K 4	0-15	7 2	2220	NIGHT	31	4.1-4.1	4.1	4.1	4.1	NONE	32.6-32.8	32.7	32.6	3622	7523	0659	1734
K 5	0-15	7 2	2101	NIGHT	34	5.1-5.1	5.1	5.1	5.2	NONE	33.3-33.3	33.3	33.2	3622	7511	0658	1733
K 5	18-24	7 2	2101	NIGHT	34	5.1-5.1	5.1	5.1	5.2	NONE	33.3-33.3	33.3	33.2	3622	7511	0658	1733
K 6	0-15	7 2	1938	NIGHT	50	14.4-14.8	14.7	14.4	13.2	NONE	34.9-35.1	35.0	34.9	3621	7458	0657	1732
K 6	18-33	7 2	1938	NIGHT	50	13.4-14.7	14.0	14.4	13.2	NONE	35.0-35.0	35.0	34.9	3621	7458	0657	1732
K 7	0-15	7 2	1807	NIGHT	725	16.0-16.0	16.0	16.0	11.5	WEAK 74-92	35.3-35.3	35.3	35.3	3621	7446	0656	1731
K 7	18-33	7 2	1807	NIGHT	725	16.0-16.0	16.0	16.0	11.5	WEAK 74-92	35.3-35.4	35.4	35.3	3621	7446	0656	1731
L 1	0-6	8 2	0711	DAY	19	2.0-2.4	2.2	2.4	2.0	NONE	31.9-31.9	31.9	31.9	3546	7530	0657	1736
L 2	0-6	8 2	0824	DAY	23	3.3-3.4	3.4	3.3	3.4	NONE	32.4-32.4	32.4	32.3	3546	7524	0657	1736
L 3	0-15	8 2	0927	DAY	34	3.9-4.1	4.0	4.1	3.9	NONE	32.6-32.9	32.7	32.6	3546	7517	0656	1735
L 3	18-24	8 2	0927	DAY	34	3.9-3.9	3.9	4.1	3.9	NONE	32.6-32.8	32.8	32.6	3546	7517	0656	1735
L 4	0-15	8 2	1050	DAY	48	5.0-5.1	5.1	5.1	4.8	NONE	32.8-32.9	32.9	32.8	3545	7505	0655	1734
L 4	18-33	8 2	1050	DAY	48	4.8-4.9	4.8	5.1	4.8	NONE	33.0-33.0	33.0	32.8	3545	7505	0655	1734
L 5	0-15	8 2	1225	DAY	145	13.5-14.5	14.4	14.5	11.1	GRADUAL	34.7-35.0	34.9	35.0	3545	7452	0654	1733
L 5	18-33	8 2	1225	DAY	145	12.2-13.2	12.7	14.5	11.1	GRADUAL	34.6-34.9	34.7	35.0	3545	7452	0654	1733
M 1	0-6	8 2	1633	DAY	13	3.3-3.4	3.3	3.4	3.3	NONE	31.6-31.6	31.6	31.6	3518	7529	0656	1737
M 2	0-6	8 2	1726	DUSK	20	3.7-3.8	3.8	3.7	3.9	NONE	31.7-31.7	31.7	31.7	3516	7523	0656	1737
M 3	0-6	8 2	1822	NIGHT	20	3.5-3.9	3.9	3.9	4.0	NONE	32.3-32.3	32.3	32.3	3514	7518	0655	1736
M 4	0-15	8 2	1915	NIGHT	42	5.3-5.4	5.3	5.4	5.3	NONE	32.2-33.2	32.7	32.8	3512	7512	0655	1736
M 4	18-33	8 2	1915	NIGHT	42	5.3-5.3	5.3	5.4	5.3	NONE	32.0-33.1	32.1	32.8	3512	7512	0655	1736
M 5	0-15	8 2	2018	NIGHT	139	12.2-17.0	16.0	17.0	10.0	STRONG 9-16	34.0-35.1	34.7	35.1	3510	7507	0654	1735
M 5	18-33	8 2	2018	NIGHT	139	10.0-11.5	10.6	17.0	10.0	STRONG 9-16	34.2-34.4	34.3	35.1	3510	7507	0654	1735
N 1	0-6	9 2	0034	NIGHT	19	5.5-5.8	5.6	5.5	6.4	NONE	31.3-31.5	31.4	31.3	3501	7557	0656	1736
N 2	0-15	9 2	0126	NIGHT	24	7.9-8.6	8.1	7.9	8.6	GRADUAL	32.7-33.1	33.0	32.7	3456	7555	0652	1737
N 3	0-15	9 2	0218	NIGHT	30	7.7-9.0	8.3	7.7	10.6	GRADUAL	32.6-32.9	32.8	32.7	3451	7552	0655	1740
N 4	0-15	9 2	0351	NIGHT	44	20.3-20.4	20.4	20.3	16.5	GRADUAL	35.4-35.6	35.5	35.4	3442	7548	0655	1740
N 4	18-33	9 2	0351	NIGHT	44	17.0-20.3	19.0	20.3	16.5	GRADUAL	35.6-35.7	35.6	35.4	3442	7548	0655	1740
N 5	0-15	9 2	0509	NIGHT	82	19.2-19.4	19.3	19.4	16.6	GRADUAL	35.3-35.5	35.5	35.3	3433	7544	0655	1740
N 5	18-33	9 2	0509	NIGHT	82	18.5-18.8	18.6	19.4	16.6	GRADUAL	35.3-35.4	35.4	35.3	3433	7544	0655	1740
P 1	0-6	9 2	1337	DAY	16	6.5-6.5	6.5	6.5	7.1	NONE	33.5-33.5	33.5	33.5	3438	7540	0659	1744
P 2	0-6	9 2	1244	DAY	17	7.2-7.6	7.4	7.6	6.5	NONE	33.2-33.3	33.3	33.2	3434	7637	0658	1743
P 3	0-6	9 2	1154	DAY	17	9.1-9.6	9.3	9.6	9.1	NONE	33.8-33.9	33.8	33.9	3429	7633	0658	1743
P 4	0-15	9 2	1033	DAY	31	14.1-17.0	15.8	17.0	13.1	WEAK 7-10	34.9-35.4	35.2	35.4	3417	7623	0657	1744
P 5	0-15	9 2	0848	DAY	60	20.0-20.0	20.0	20.0	17.8	GRADUAL	35.5-35.6	35.5	35.4	3404	7613	0656	1743
P 5	18-33	9 2	0848	DAY	60	19.6-19.9	19.8	20.0	17.8	GRADUAL	35.4-35.5	35.5	35.4	3404	7613	0656	1743

TABLE 2. (continued)

CRUISE #6603 STA.	TOW DEPTH (M)	DATE 1966 D P	TOW START FST	LIGHT COND.	WATER DEPTH (M)	**** TEMPERATURE (C) ****					THERMOCLINE DEPTH (M)	**** SALINITY (0/00) ****		**** SURF.	POSITION LAT. LNG.		** SUN ** RISE SET	
						RANGE	MEAN	SURF.	BOT.	DEGREE		RANGE	MEAN		DEPT.	LAT.	LNG.	RISE
A 1	0-6	6 4	1757	DUSK	23	3.6-3.6	3.6	3.6	3.7	NONE	-	31.6-31.7	31.6	31.6	4117	7048	0519	1813
A 2	0-15	6 4	1911	NIGHT	36	3.3-3.5	3.5	3.5	3.0	NONE	-	31.7-32.1	32.0	31.7	4112	7047	0519	1813
A 3	0-15	6 4	2110	NIGHT	47	3.4-3.5	3.5	3.5	3.0	NONE	-	32.0-32.3	32.1	32.0	4107	7046	0519	1813
A 3	18-33	6 4	2110	NIGHT	47	3.0-3.4	3.1	3.5	3.0	NONE	-	29.1-32.3	30.1	32.0	4107	7046	0519	1813
A 4	0-15	6 4	2238	NIGHT	51	3.4-3.7	3.6	3.6	2.8	NONE	-	31.9-32.5	32.2	32.0	4057	7044	0519	1813
A 4	18-33	6 4	2238	NIGHT	51	2.8-3.2	3.0	3.6	2.8	NONE	-	29.4-32.4	30.5	32.0	4057	7044	0519	1813
A 5	0-15	7 4	0029	NIGHT	62	3.6-3.7	3.7	3.7	2.7	NONE	-	32.0-33.4	33.0	32.0	4047	7042	0518	1814
A 5	18-33	7 4	0029	NIGHT	62	3.0-3.5	3.5	3.7	2.7	NONE	-	33.2-33.6	33.4	32.0	4047	7042	0518	1814
A 6	0-15	7 4	0208	NIGHT	73	3.4-3.7	3.6	3.7	2.7	NONE	-	32.4-33.2	32.7	32.4	4032	7040	0518	1814
A 6	18-33	7 4	0208	NIGHT	73	3.3-3.4	3.4	3.7	2.7	NONE	-	33.3-33.7	33.5	32.4	4032	7040	0518	1814
A 7	0-15	7 4	0355	NIGHT	111	3.4-3.6	3.5	3.6	3.9	NONE	-	33.1-33.5	33.3	33.0	4017	7037	0517	1812
A 7	18-33	7 4	0355	NIGHT	111	2.9-3.3	3.2	3.6	3.9	NONE	-	33.5-33.8	33.6	33.0	4017	7037	0517	1812
B 1	0-6	7 4	1650	DAY	24	4.7-4.7	4.7	4.7	4.7	NONE	-	30.3-30.9	30.6	30.3	4103	7151	0521	1818
B 2	0-15	7 4	1556	DAY	39	6.2-6.6	6.4	6.4	6.1	NONE	-	31.7-32.2	32.1	31.6	4058	7149	0521	1818
B 3	0-15	7 4	1455	DAY	52	4.8-5.0	4.9	5.0	4.7	NONE	-	31.4-32.1	32.0	31.4	4054	7147	0521	1818
B 3	18-33	7 4	1455	DAY	52	4.7-4.7	4.7	5.0	4.7	NONE	-	29.6-30.9	30.2	31.4	4054	7147	0521	1818
B 4	0-15	7 4	1324	DAY	62	5.3-5.5	5.4	5.5	4.8	NONE	-	32.8-33.5	33.2	32.7	4044	7144	0522	1818
B 4	18-33	7 4	1324	DAY	62	5.0-5.3	5.2	5.5	4.8	NONE	-	33.7-34.1	33.9	32.7	4044	7144	0522	1818
B 5	0-15	7 4	1156	DAY	77	4.2-4.9	4.5	4.9	3.9	NONE	-	31.0-22.5	31.6	31.0	4034	7140	0522	1818
B 5	18-33	7 4	1156	DAY	77	3.7-4.1	3.9	4.9	3.9	NONE	-	30.4-32.7	31.9	31.0	4034	7140	0522	1818
B 6	0-15	7 4	1005	DAY	87	4.4-4.7	4.6	4.7	2.8	GRADUAL	-	32.2-33.2	32.8	32.2	4020	7135	0521	1816
B 6	18-33	7 4	1005	DAY	87	4.1-4.3	4.3	4.7	2.8	GRADUAL	-	33.2-33.3	33.2	32.2	4020	7135	0521	1816
B 7	0-15	7 4	0801	DAY	95	3.5-3.9	3.8	3.9	3.3	NONE	-	32.4-33.4	33.1	32.4	4005	7129	0521	1816
B 7	18-33	7 4	0801	DAY	95	3.4-3.5	3.5	3.9	3.3	NONE	-	33.4-33.6	33.5	32.4	4005	7129	0521	1816
C 1	0-15	8 4	0005	NIGHT	21	4.5-5.0	4.9	5.0	3.5	NONE	-	31.7-32.4	32.2	31.7	4035	7317	0526	1825
C 2	0-15	8 4	0058	NIGHT	28	4.0-5.2	5.0	5.2	4.0	NONE	-	31.6-32.5	32.1	31.6	4031	7314	0526	1825
C 3	0-15	8 4	0156	NIGHT	33	4.2-4.9	4.8	4.9	3.9	NONE	-	30.6-31.4	30.9	30.7	4027	7310	0526	1824
C 3	18-24	8 4	0156	NIGHT	33	3.9-4.1	4.0	4.9	3.9	NONE	-	31.5-31.7	31.6	30.7	4027	7310	0526	1824
C 4	0-15	8 4	0316	NIGHT	44	4.5-5.0	4.8	5.0	4.4	NONE	-	32.6-33.7	33.1	32.5	4019	7303	0525	1827
C 4	18-33	8 4	0316	NIGHT	44	4.4-4.4	4.4	5.0	4.4	NONE	-	33.4-33.9	33.7	32.5	4019	7303	0525	1827
C 5	0-15	8 4	0445	NIGHT	50	5.2-5.3	5.3	5.2	5.1	NONE	-	33.6-33.8	33.7	33.6	4010	7255	0526	1823
C 5	18-33	8 4	0445	NIGHT	50	5.0-5.1	5.1	5.2	5.1	NONE	-	33.8-34.3	34.0	33.6	4010	7255	0526	1823
C 6	0-15	8 4	0644	DAY	58	5.7-5.9	5.8	5.9	5.3	NONE	-	32.9-33.8	33.3	32.9	3958	7244	0521	1822
C 6	18-33	8 4	0644	DAY	58	5.3-5.6	5.4	5.9	5.3	NONE	-	33.9-34.2	34.1	32.9	3958	7244	0525	1822
C 7	0-15	8 4	0851	DAY	69	5.4-5.5	5.5	5.5	5.2	NONE	-	33.5-33.7	33.6	33.5	3946	7233	0524	1821
C 7	18-33	8 4	0851	DAY	69	5.0-5.2	5.0	5.5	5.2	NONE	-	33.8-34.0	33.9	33.5	3946	7233	0524	1821
C 8	0-15	8 4	1048	DAY	273	4.6-5.2	5.1	5.2	5.7	NONE	-	32.6-33.5	33.3	32.8	3934	7222	0524	1821
C 8	18-33	8 4	1048	DAY	273	4.4-4.5	4.5	5.2	5.7	NONE	-	33.6-34.0	33.8	32.8	3934	7222	0524	1821
D 1	0-6	9 4	0213	NIGHT	18	5.9-6.0	5.9	6.0	5.5	NONE	-	30.8-31.6	31.2	30.8	3951	7404	0532	1832
D 2	0-6	9 4	0125	NIGHT	19	6.0-6.1	6.1	6.1	5.3	NONE	-	31.5-32.0	31.8	31.4	3948	7359	0528	1828
D 3	0-15	9 4	0035	NIGHT	21	6.1-6.1	6.1	6.1	5.6	NONE	-	31.4-32.1	32.1	31.4	3945	7354	0528	1828
D 4	0-15	8 4	2317	NIGHT	32	5.5-6.1	6.1	6.1	5.1	NONE	-	31.8-32.7	32.4	31.8	3939	7343	0529	1826
D 5	0-15	8 4	2127	NIGHT	40	5.4-6.0	5.7	6.0	5.2	NONE	-	32.0-33.1	32.6	31.9	3932	7333	0528	1825
D 5	18-33	8 4	2127	NIGHT	40	5.2-5.3	5.2	6.0	5.2	NONE	-	33.4-33.9	33.6	31.5	3932	7333	0528	1825
D 6	0-15	8 4	1930	NIGHT	57	5.6-6.2	6.1	6.2	5.2	NONE	-	33.0-33.9	33.5	32.9	3923	7319	0527	1823
D 6	18-33	8 4	1930	NIGHT	57	5.2-5.5	5.4	6.2	5.2	NONE	-	33.8-34.4	34.1	32.9	3923	7319	0527	1823
D 7	0-15	8 4	1722	DAY	74	5.6-6.2	6.1	5.3	5.1	NONE	-	32.3-33.5	33.3	32.2	3914	7303	0530	1826
D 7	18-33	8 4	1722	DAY	74	5.2-5.5	5.4	5.3	5.1	NONE	-	33.6-33.8	33.7	32.2	3914	7303	0530	1826
D 8	0-15	8 4	1530	DAY	121	4.2-5.5	4.9	5.5	6.7	WEAK	6-11	33.2-34.1	33.5	33.2	3906	7250	0525	1821
D 8	18-33	8 4	1530	DAY	121	3.5-4.2	4.1	5.5	6.7	WEAK	6-11	33.6-33.9	33.8	33.2	3906	7250	0525	1821
E 1	0-6	13 4	0056	NIGHT	14	6.7-6.7	6.7	6.7	6.7	NONE	-	30.7-30.9	30.8	30.8	3917	7431	0525	1833
E 2	0-6	13 4	0228	NIGHT	19	6.4-6.4	6.4	6.4	6.6	NONE	-	30.8-31.0	30.9	31.0	3914	7425	0525	1833
E 3	0-15	22 4	1912	NIGHT	22	7.4-7.6	7.5	7.5	7.4	NONE	-	31.3-31.4	31.3	31.2	3911	7420	0517	1841
E 4	0-15	22 4	1756	DAY	33	6.8-7.5	7.3	7.5	6.6	NONE	-	31.4-31.7	31.5	31.4	3905	7409	0511	1841
E 4	18-24	22 4	1756	DAY	33	6.7-6.7	6.7	7.5	6.6	NONE	-	31.6-31.7	31.7	31.4	3905	7409	0511	1841
E 5	0-15	22 4	1640	DAY	37	6.5-7.2	7.0	7.2	6.3	NONE	-	31.5-31.9	31.6	31.5	3859	7359	0510	1839
E 5	18-24	22 4	1640	DAY	37	6.3-6.4	6.3	7.2	6.3	NONE	-	31.6-31.8	31.7	31.5	3859	7359	0510	1839
E 6	0-15	22 4	1527	DAY	45	6.9-7.0	7.0	7.0	6.4	NONE	-	31.8-32.1	32.0	31.8	3854	7349	0509	1838
E 6	18-33	22 4	1527	DAY	45	6.4-6.7	6.5	7.0	6.4	NONE	-	31.6-32.1	31.9	31.8	3854	7349	0509	1838
E 7	0-15	22 4	1344	DAY	69	6.4-6.7	6.5	6.7	5.3	NONE	-	31.6-31.8	31.7	31.5	3845	7333	0508	1837
E 7	18-33	22 4	1344	DAY	69	5.2-6.1	5.6	6.7	5.3	NONE	-	31.7-32.0	31.8	31.5	3845	7333	0508	1837
E 8	0-15	22 4	1150	DAY	134	5.2-6.5	6.1	6.5	4.6	NONE	-	31.4-31.9	31.7	31.7	3836	7318	0508	1836
E 8	18-33	22 4	1150	DAY	134	5.0-5.2	5.2	6.5	4.6	NONE	-	31.8-32.1	32.0	31.7	3836	7318	0508	1836
F 1	0-6	14 4	1045	DAY	20	6.8-6.9	6.8	6.9	6.8	NONE	-	28.2-29.2	28.7	28.2	3846	7503	0526	1836
F 2	0-6	14 4	1146	DAY	20	6.5-6.9	6.7	6.9	6.3	NONE	-	30.0-30.3	30.1	30.0	3843	7458	0526	1836
F 3	0-15	14 4	1243	DAY	27	6.3-6.5	6.4	6.5	6.3	NONE	-	31.1-31.4	31.2	31.0	3840	7452	0525	1835
F 4	0-15	14 4	1404	DAY	24	6.2-6.3	6.2	6.3	6.1	NONE	-	31.3-31.7	31.5	31.3	3835	7441	0525	1835
F 5	0-15	14 4	1528	DAY	40	5.6-5.8	5.8	5.8	5.7	NONE	-	32.1-32.2	32.2	32.1	3829	7430	0524	1833
F 5	18-33	14 4	1528	DAY	40	5.7-5.8	5.8	5.8	5.7	NONE	-	32.4-32.5	32.4	32.1	3829	7430	0524	1833
F 6	0-15	14 4	1719	DAY	52	6.2-6.3	6.3	6.3	6.2	NONE	-	32.2-32.3	32.3	32.1	3821	7413	0523	1832
F 6	18-33	14 4	1719	DAY	52	6.2-6.2	6.2	6.3	6.2	NONE	-	32.5-32.6	32.6	32.1	3821	7413	0523	1832
F 7	0-15	14 4	1910	NIGHT	70	5.0-5.0	5.0	5.0	5.4	NONE	-	32.2-32.5						

TABLE 2. (continued)

CRUISE D6602 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START #ST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (O/CO) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET		
H 1	0-6	15	4	1406	DAY	15	8.3-9.2	8.7	9.2	8.4	NONE	-	31.0-31.0	31.0	30.9	3734 7533	0528 1837
H 2	0-15	15	4	1452	DAY	21	8.5-8.6	8.5	8.6	8.5	NONE	-	31.4-31.9	31.7	31.4	3732 7528	0528 1837
F 3	0-15	15	4	1548	DAY	25	7.8-8.2	7.9	8.2	7.0	NONE	-	32.3-32.8	32.6	32.3	3730 7522	0527 1836
H 4	0-15	15	4	1712	DAY	31	7.2-7.4	7.2	7.4	7.2	NONE	-	31.6-32.0	31.9	31.6	3727 7510	0527 1836
H 5	0-15	15	4	1911	NIGHT	37	6.6-6.9	6.7	6.9	6.6	NONE	-	32.3-32.4	32.4	32.3	3723 7458	0526 1835
H 5	18-24	15	4	1911	NIGHT	37	6.6-6.6	6.6	6.9	6.6	NONE	-	32.4-32.5	32.5	32.3	3723 7458	0526 1835
H 6	0-15	15	4	2210	NIGHT	80	6.2-6.8	6.5	6.8	6.2	NONE	-	32.4-32.7	32.5	32.6	3718 7440	0525 1834
H 6	18-33	15	4	2210	NIGHT	80	6.2-6.2	6.2	6.8	6.2	NONE	-	32.4-32.5	32.5	32.6	3718 7440	0525 1834
H 7	0-15	15	4	2320	NIGHT	129	5.0-5.6	5.4	5.6	5.2	NONE	-	32.1-32.4	32.2	32.3	3716 7434	0524 1833
H 7	18-33	15	4	2320	NIGHT	129	5.0-5.4	5.3	5.6	5.2	NONE	-	32.4-32.6	32.5	32.3	3716 7434	0524 1833
J 1	0-6	19	4	1132	DAY	16	10.9-11.5	11.2	11.5	9.9	GRADUAL	-	23.6-27.9	25.8	23.5	3655 7558	0521 1838
J 2	0-6	19	4	1216	DAY	13	9.4-10.8	10.0	10.8	9.4	GRADUAL	-	26.4-30.8	29.0	26.4	3655 7552	0524 1841
J 3	0-6	16	4	0825	DAY	19	8.5-8.5	8.9	8.9	8.5	GRADUAL	-	31.8-31.8	31.8	31.8	3654 7545	0528 1838
J 4	0-6	16	4	0707	DAY	27	8.0-8.0	8.0	8.0	7.8	NONE	-	31.7-31.8	31.7	31.7	3653 7533	0527 1837
J 5	0-15	16	4	0545	DAY	30	7.7-7.9	7.8	7.9	7.7	NONE	-	31.8-32.1	32.0	31.8	3652 7521	0526 1836
J 6	0-15	16	4	0406	NIGHT	58	7.0-7.4	7.3	7.4	6.9	NONE	-	32.0-32.6	32.3	32.0	3650 7502	0525 1835
J 6	18-24	16	4	0406	NIGHT	58	6.9-6.9	6.9	7.4	6.9	NONE	-	32.4-32.5	32.5	32.0	3650 7502	0525 1835
J 7	0-15	16	4	0212	NIGHT	92	6.7-6.8	6.7	6.8	6.4	NONE	-	32.3-32.5	32.4	32.4	3648 7444	0524 1834
J 7	18-33	16	4	0212	NIGHT	92	6.4-6.6	6.5	6.8	6.4	NONE	-	32.5-32.7	32.6	32.4	3648 7444	0524 1834
K 1	0-6	19	4	1528	DAY	17	10.3-10.4	10.4	10.3	10.4	NONE	-	31.0-31.4	31.2	31.0	3623 7548	0525 1840
K 2	0-15	19	4	1617	DAY	24	8.9-10.4	9.7	10.4	8.9	GRADUAL	-	30.3-31.4	30.7	30.3	3623 7542	0525 1840
K 3	0-15	19	4	1715	DAY	26	8.8-11.2	9.6	11.2	8.1	GRADUAL	-	30.2-31.6	31.1	30.2	3622 7536	0524 1839
K 4	0-15	19	4	1833	DUSK	32	7.6-8.9	8.2	8.9	7.5	GRADUAL	-	31.9-32.3	32.2	31.9	3622 7523	0524 1839
K 5	0-15	19	4	1953	NIGHT	37	8.1-8.2	8.5	8.8	7.7	GRADUAL	-	32.5-32.7	32.6	32.5	3622 7511	0523 1838
K 5	18-24	19	4	1953	NIGHT	37	7.7-7.9	7.8	8.8	7.7	GRADUAL	-	32.7-32.8	32.8	32.5	3622 7511	0523 1838
K 6	0-15	19	4	2115	NIGHT	43	7.4-8.3	7.9	8.3	7.3	NONE	-	32.6-32.8	32.7	32.6	3621 7458	0522 1837
K 6	18-33	19	4	2115	NIGHT	43	7.3-7.3	7.3	8.3	7.3	NONE	-	32.8-33.0	32.9	32.6	3621 7458	0522 1837
K 7	0-15	19	4	2243	NIGHT	681	6.3-7.3	7.0	7.3	6.2	NONE	-	32.5-32.8	32.7	32.5	3621 7446	0521 1836
K 7	18-33	19	4	2243	NIGHT	681	5.5-6.2	6.1	7.3	6.2	NONE	-	32.8-32.9	32.9	32.5	3621 7446	0521 1836
L 1	0-6	20	4	0635	DAY	17	9.6-10.7	10.1	10.7	9.2	NONE	-	30.3-30.7	30.4	30.2	3546 7530	0523 1840
L 2	0-6	20	4	0541	DAY	26	9.4-10.5	9.9	10.5	8.6	GRADUAL	-	30.2-31.0	30.5	30.2	3546 7524	0523 1840
L 3	0-15	20	4	0448	NIGHT	32	8.3-10.8	9.0	10.8	8.2	GRADUAL	-	30.6-32.2	31.8	30.5	3546 7517	0522 1839
L 3	18-24	20	4	0448	NIGHT	32	8.2-8.2	8.2	10.8	8.2	GRADUAL	-	32.0-32.2	32.1	30.5	3546 7517	0522 1839
L 4	0-15	20	4	0331	NIGHT	42	8.6-9.6	9.2	9.6	8.2	GRADUAL	-	32.3-32.4	32.3	32.2	3545 7505	0521 1838
L 4	18-33	20	4	0331	NIGHT	42	8.3-8.5	8.3	9.6	8.2	GRADUAL	-	32.3-32.3	32.3	32.2	3545 7505	0521 1838
L 5	0-15	20	4	0209	NIGHT	192	8.4-9.2	8.7	9.2	6.6	NONE	-	32.1-32.4	32.2	32.3	3545 7452	0520 1837
L 5	18-33	20	4	0209	NIGHT	192	8.3-8.4	8.4	9.2	6.6	NONE	-	32.1-32.3	32.2	32.3	3545 7452	0520 1837
M 1	0-6	20	4	1001	DAY	16	11.3-11.6	11.5	11.6	11.0	NONE	-	30.1-30.6	30.3	30.0	3518 7529	0524 1839
M 2	0-6	20	4	1053	DAY	20	11.1-12.3	11.7	12.3	9.8	GRADUAL	-	29.9-30.3	30.1	29.9	3516 7523	0524 1839
M 3	0-6	20	4	1148	DAY	25	10.6-11.9	11.1	11.9	18.4	STRONG	8-18	30.3-30.5	30.3	30.2	3514 7518	0523 1838
M 4	0-15	20	4	1245	DAY	62	12.4-15.2	13.7	12.4	18.6	STRONG	13-20	30.7-32.2	31.6	30.6	3512 7512	0523 1838
M 4	18-33	20	4	1245	DAY	62	17.1-18.6	18.4	12.4	18.6	STRONG	13-20	33.1-34.5	34.4	30.6	3512 7512	0523 1838
M 5	0-15	20	4	1346	DAY	215	13.3-19.2	15.8	13.3	18.0	STRONG	0-15	31.5-35.4	33.6	31.5	3510 7507	0522 1837
M 5	18-33	20	4	1346	DAY	215	18.9-19.5	19.3	13.3	18.0	STRONG	0-15	35.4-35.6	35.5	31.5	3510 7507	0522 1837
N 1	0-15	20	4	1753	DAY	21	10.7-12.2	10.9	12.2	10.7	WEAK	0-4	32.2-32.6	32.4	32.5	3501 7551	0522 1837
N 2	0-6	20	4	1851	NIGHT	22	11.7-11.8	11.8	11.8	11.9	-	-	32.1-32.1	32.1	32.0	3456 7555	0522 1837
N 3	0-15	20	4	1948	NIGHT	29	9.9-12.5	11.3	12.2	9.9	STRONG	6-10	31.7-32.2	32.0	31.7	3451 7552	0525 1839
N 3	18-24	20	4	1948	NIGHT	29	9.5-10.0	10.0	12.2	9.9	STRONG	6-10	32.1-33.9	32.7	31.7	3451 7552	0525 1839
N 4	0-15	20	4	2125	NIGHT	49	20.9-21.0	21.0	21.0	18.5	GRADUAL	-	35.5-35.6	35.6	35.6	3442 7548	0525 1839
N 4	18-33	20	4	2125	NIGHT	49	18.9-20.8	19.9	21.0	18.5	GRADUAL	-	35.6-35.8	35.7	35.6	3442 7548	0525 1839
N 5	0-15	20	4	2316	NIGHT	235	23.5-23.5	23.5	23.5	19.5	GRADUAL	-	35.5-35.5	35.5	35.4	3433 7544	0526 1839
N 5	18-33	20	4	2316	NIGHT	235	23.1-23.5	23.4	23.5	19.5	GRADUAL	-	35.5-35.6	35.6	35.4	3433 7544	0526 1839
P 1	0-6	21	4	0956	DAY	18	15.5-17.4	16.6	17.4	15.3	GRADUAL	-	32.1-32.8	32.4	32.7	3438 7540	0528 1844
P 2	0-6	21	4	0906	DAY	18	15.5-16.4	16.0	16.4	14.6	GRADUAL	-	32.1-33.3	33.2	33.0	3434 7637	0527 1843
P 3	0-6	21	4	0815	DAY	18	15.5-16.2	15.9	16.2	14.6	WEAK	3-10	32.8-33.8	33.4	32.8	3429 7633	0528 1843
P 4	0-15	21	4	0625	DAY	34	15.3-15.9	15.7	15.9	17.0	-	-	33.3-34.5	33.7	33.3	3417 7623	0528 1842
P 4	18-24	21	4	0625	DAY	34	16.3-16.9	16.7	15.9	17.0	-	-	34.8-35.0	34.9	33.3	3417 7623	0528 1842
P 5	0-15	21	4	0427	NIGHT	74	24.9-25.0	25.0	24.9	21.1	GRADUAL	-	35.4-35.5	35.5	35.4	3404 7513	0527 1841
P 5	18-33	21	4	0427	NIGHT	74	25.0-25.1	25.1	24.9	21.1	GRADUAL	-	35.4-35.6	35.5	35.4	3404 7513	0527 1841

TABLE 2. (continued)

CRUISE STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START H S	LIGHT COND.	WATER DEPTH (M)	**** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	**** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY 10/001 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN RISE SET
A 1	0-6	12 5	2002	NIGHT	19	7.8-7.8	7.8	7.8	7.8	NONE	-	32.5-32.6	32.6	32.5	4117 7348	0428 1851
A 2	0-15	12 5	2109	NIGHT	33	7.3-7.4	7.3	7.4	7.2	NONE	-	32.4-32.6	32.5	32.5	4112 7041	0428 1851
A 2	18-24	12 5	2109	NIGHT	33	7.2-7.2	7.2	7.4	7.2	NONE	-	32.5-32.6	32.6	32.5	4112 7041	0428 1851
A 3	0-15	13 5	0008	NIGHT	37	7.2-7.2	7.2	7.2	6.6	NONE	-	31.9-32.4	32.3	31.8	4107 7046	0427 1852
A 3	18-33	13 5	0008	NIGHT	37	6.6-7.2	6.8	7.2	6.6	NONE	-	32.2-32.4	32.3	31.8	4107 7046	0427 1852
A 4	0-15	13 5	0153	NIGHT	54	6.3-6.3	6.3	6.3	4.9	NONE	-	32.2-32.5	32.3	32.4	4057 7044	0428 1851
A 4	18-33	13 5	0153	NIGHT	54	5.8-6.3	6.0	6.3	4.9	NONE	-	32.4-32.5	32.4	32.4	4057 7044	0428 1851
A 5	0-15	13 5	0325	NIGHT	62	6.3-6.3	6.3	6.3	4.6	STRONG	35-36	32.2-32.6	32.5	32.2	4047 7042	0428 1851
A 5	18-33	13 5	0325	NIGHT	62	5.5-6.2	6.1	6.3	4.6	STRONG	35-36	32.3-32.7	32.6	32.2	4047 7042	0428 1851
A 6	0-15	13 5	0534	DAY	76	6.5-6.5	6.5	6.5	4.3	WEAK	35-42	32.2-33.3	32.9	33.1	4032 7040	0429 1850
A 6	18-33	13 5	0534	DAY	76	6.0-6.4	6.2	6.5	4.3	WEAK	35-42	33.0-33.3	33.2	33.1	4032 7040	0429 1850
A 7	0-15	13 5	0806	DAY	114	6.2-6.3	6.3	6.3	7.0	-	-	33.0-33.1	33.1	33.1	4017 7031	0422 1849
A 7	18-33	13 5	0806	DAY	114	5.8-6.2	6.1	6.3	7.0	-	-	33.1-33.1	33.1	33.1	4017 7037	0428 1849
B 1	0-9	13 5	2133	NIGHT	22	7.1-8.3	8.0	8.3	7.2	GRADUAL	-	30.2-31.2	30.6	30.1	4103 7151	0431 1856
B 2	0-15	13 5	2038	NIGHT	34	7.1-7.7	7.5	7.7	5.0	GRADUAL	-	31.3-31.9	31.7	31.3	4058 7149	0432 1855
B 3	0-15	13 5	1936	NIGHT	52	7.5-7.5	7.5	7.5	4.9	WEAK	17-23	31.7-32.0	31.8	31.7	4054 7147	0432 1855
B 3	18-33	13 5	1936	NIGHT	52	4.8-6.8	5.5	7.5	4.9	WEAK	17-23	32.2-33.0	32.7	31.7	4054 7147	0432 1855
B 4	0-15	13 5	1812	DAY	65	7.2-7.6	7.5	7.6	4.2	GRADUAL	-	32.1-33.0	32.4	32.1	4044 7144	0432 1855
B 4	18-33	13 5	1812	DAY	65	6.2-6.5	6.5	7.6	4.2	GRADUAL	-	32.5-33.3	33.1	32.1	4044 7144	0432 1855
B 5	0-15	13 5	1641	DAY	72	6.6-7.6	7.4	7.6	4.1	WEAK	12-15	32.6-33.3	32.9	32.6	4034 7140	0432 1854
B 5	18-33	13 5	1641	DAY	72	6.2-6.4	6.3	7.6	4.1	WEAK	12-15	33.4-33.5	33.4	32.6	4034 7140	0432 1854
B 6	0-15	13 5	1453	DAY	86	6.7-7.0	6.9	7.0	3.7	GRADUAL	-	32.5-32.8	32.6	32.6	4020 7135	0432 1853
B 6	18-33	13 5	1453	DAY	86	5.6-6.6	6.4	7.0	3.7	GRADUAL	-	32.5-33.0	32.7	32.6	4020 7135	0432 1853
B 7	0-15	13 5	1237	DAY	98	6.5-6.6	6.6	6.6	6.9	GRADUAL	-	32.5-32.7	32.6	32.5	4005 7129	0432 1852
B 7	18-33	13 5	1237	DAY	98	6.2-6.4	6.3	6.6	6.9	GRADUAL	-	32.6-32.7	32.6	32.5	4005 7129	0432 1852
C 1	0-15	14 5	2124	NIGHT	21	8.0-8.8	8.7	8.8	8.0	WEAK	12-14	30.9-31.8	31.3	30.9	4035 7137	0438 1901
C 2	0-15	14 5	2030	NIGHT	30	8.3-8.7	8.6	8.7	7.4	WEAK	17-20	31.1-31.7	31.5	31.4	4031 7134	0438 1901
C 3	0-15	14 5	1935	NIGHT	35	7.5-8.4	8.2	8.4	7.4	NONE	-	32.0-32.1	32.0	32.1	4027 7130	0438 1901
C 3	18-24	14 5	1935	NIGHT	35	7.9-7.9	7.9	8.4	7.4	NONE	-	32.2-32.3	32.3	32.1	4027 7130	0438 1901
C 4	0-15	14 5	1807	DAY	36	7.3-7.9	7.7	7.9	6.4	NONE	-	32.3-32.4	32.4	32.3	4019 7303	0441 1904
C 4	18-33	14 5	1807	DAY	36	6.6-7.4	7.2	7.9	6.4	NONE	-	32.4-32.6	32.4	32.3	4019 7303	0441 1904
C 5	0-15	14 5	1675	DAY	51	7.6-7.8	7.7	7.8	6.4	NONE	-	32.6-32.7	32.7	32.7	4010 7255	0438 1859
C 5	18-33	14 5	1675	DAY	51	6.4-7.6	6.9	7.8	6.4	NONE	-	32.8-32.9	32.8	32.7	4010 7255	0438 1859
C 6	0-15	14 5	1342	DAY	59	7.4-7.5	7.4	7.5	5.1	WEAK	35-45	32.2-32.7	32.6	32.6	3958 7244	0437 1858
C 6	18-33	14 5	1342	DAY	59	6.5-7.4	7.2	7.5	5.1	WEAK	35-45	32.1-32.2	32.2	32.6	3958 7244	0437 1858
C 7	0-15	14 5	1218	DAY	68	7.1-7.2	7.1	7.2	4.1	WEAK	28-44	32.1-32.5	32.4	32.1	3946 7233	0437 1856
C 7	18-33	14 5	1218	DAY	68	5.7-7.0	6.5	7.2	4.1	WEAK	28-44	32.2-32.4	32.3	32.1	3946 7233	0437 1856
C 8	0-15	14 5	0615	DAY	400	6.8-7.3	7.1	7.3	8.3	-	-	33.2-33.3	33.2	33.1	3934 7222	0437 1856
C 8	18-33	14 5	0615	DAY	400	6.3-7.0	6.7	7.3	8.3	-	-	33.4-33.8	33.5	33.1	3934 7222	0437 1856
D 1	0-6	16 5	1905	DUSK	19	10.4-10.8	10.7	10.8	8.4	GRADUAL	-	30.6-31.6	31.1	30.5	3951 7404	0444 1909
D 2	0-6	16 5	2003	NIGHT	23	9.6-9.8	9.8	9.8	9.8	NONE	-	31.5-31.7	31.6	31.5	3948 7359	0440 1904
D 3	0-15	16 5	2058	NIGHT	26	8.7-9.2	9.0	9.2	7.7	WEAK	20-23	31.5-31.7	31.7	31.7	3945 7354	0441 1904
D 4	0-15	16 5	2223	NIGHT	33	8.5-8.9	8.8	8.9	7.3	WEAK	13-18	31.6-31.9	31.8	31.8	3939 7343	0440 1903
D 5	0-15	16 5	2352	NIGHT	40	8.4-8.7	8.6	8.7	7.8	NONE	-	31.5-32.4	32.1	32.1	3932 7332	0439 1902
D 5	18-24	16 5	2352	NIGHT	40	7.8-8.0	7.8	8.7	7.8	NONE	-	31.3-31.7	31.6	32.1	3932 7333	0439 1902
D 6	0-15	17 5	0155	NIGHT	54	8.0-8.1	8.0	8.1	6.8	NONE	-	30.3-30.9	30.6	30.9	3923 7315	0438 1901
D 6	18-33	17 5	0155	NIGHT	54	7.4-7.8	7.5	8.1	6.8	NONE	-	30.0-30.3	30.2	30.9	3923 7319	0438 1901
D 7	0-15	17 5	0356	NIGHT	74	6.3-6.3	6.3	6.3	4.9	GRADUAL	-	29.1-30.2	29.5	30.2	3914 7303	0441 1904
D 7	18-33	17 5	0356	NIGHT	74	5.5-6.2	6.0	6.3	4.9	GRADUAL	-	28.6-28.9	28.8	30.2	3914 7303	0441 1904
D 8	0-15	17 5	0908	DAY	113	7.1-7.1	7.1	7.1	5.1	WEAK	25-34	32.3-32.7	32.5	32.3	3906 7250	0438 1859
D 8	18-33	17 5	0908	DAY	113	5.6-7.1	6.5	7.1	5.1	WEAK	25-34	30.0-31.8	30.8	32.3	3906 7250	0438 1859
E 1	0-6	18 5	0414	DAWN	15	11.8-11.8	11.8	11.8	11.8	NONE	-	29.1-29.3	29.3	29.3	3917 7431	0442 1907
E 2	0-6	18 5	0314	NIGHT	21	10.0-10.0	10.0	10.0	10.0	NONE	-	28.3-28.6	28.5	28.3	3914 7425	0442 1907
E 3	0-15	18 5	0210	NIGHT	20	9.4-9.5	9.5	9.5	9.3	NONE	-	29.2-30.4	29.5	30.3	3911 7420	0441 1906
E 4	0-15	17 5	2255	NIGHT	34	8.5-9.2	9.1	9.2	8.8	NONE	-	30.9-31.9	31.6	31.8	3905 7405	0442 1905
E 4	18-24	17 5	2255	NIGHT	34	8.8-8.8	8.8	8.8	8.8	NONE	-	29.1-30.1	29.5	31.8	3905 7409	0442 1905
E 5	0-15	17 5	2153	NIGHT	37	8.8-9.1	9.0	9.1	8.4	NONE	-	32.6-32.7	32.6	32.6	3859 7359	0442 1903
E 5	18-24	17 5	2153	NIGHT	37	8.4-8.6	8.4	8.4	8.4	NONE	-	31.7-32.2	31.8	32.6	3859 7359	0442 1903
E 6	0-15	17 5	1839	DUSK	34	8.3-8.8	8.5	8.8	7.5	NONE	-	31.3-32.8	32.4	32.7	3854 7349	0441 1902
E 6	18-24	17 5	1839	DUSK	34	7.6-8.0	7.8	8.8	7.5	NONE	-	31.0-31.6	31.4	32.7	3845 7333	0440 1901
E 7	0-15	17 5	1711	DAY	63	8.3-8.6	8.5	8.6	6.0	GRADUAL	-	32.4-32.8	32.7	32.7	3845 7333	0440 1901
E 7	18-33	17 5	1711	DAY	63	6.8-8.1	7.5	8.6	6.0	GRADUAL	-	31.1-32.2	31.6	32.7	3845 7333	0440 1901
E 8	0-15	17 5	1258	DAY	126	8.0-8.0	8.0	8.0	9.2	-	-	32.0-32.6	32.4	32.6	3836 7318	0440 1859
E 8	18-33	17 5	1258	DAY	126	8.2-8.4	8.4	8.0	9.2	-	-	30.4-31.5	30.9	32.6	3836 7318	0440 1859
F 1	0-6	18 5	1408	DAY	16	12.2-12.7	12.4	12.7	12.1	NONE	-	29.7-29.1	29.8	28.7	3846 7503	0445 1908
F 2	0-6	18 5	1456	DAY	18	11.9-12.2	12.0	12.2	11.8	NONE	-	29.7-29.9	29.8	29.7	3843 7458	0446 1907
F 3	0-15	18 5	1605	DAY	29	10.7-12.2	11.4	12.2	10.0	GRADUAL	-	29.8-30.5	30.1	30.5	3840 7452	0445 1906
F 3	18-24	18 5	1605	DAY	29	10.2-10.6	10.5	12.2	10.0	GRADUAL	-	29.4-29.7	29.6	30.5	3840 7452	0445 1906
F 4	0-15	18 5	1710	DAY	20	9.6-10.8	10.0	10.8	9.6	WEAK	4-8	31.5-32.2	32.0	32.1	3835 7441	0445 1906
F 5	0-15	18 5	2024	NIGHT	38	9.1-10.4	9.9	10.4	7.8	GRADUAL	-	31.6-32.3	32.0	32.3	3829 7430	0444 1905
F 5	18-33	18 5	2024	NIGHT	38	7.8-8.9	8.2	10.4	7.8	GRADUAL	-	30.5-31.2	30.7	32.3	3829 7430	0444 1905
F 6	0-15	18 5	2150	NIGHT	49	8.6-10.0	9.0	10.0	6.8	WEAK	24-29	30.3-32.0	30.8	31.9	3821 7413	0444 1903
F 6	18-33	18 5	2150	NIGHT	49	6.8-8.5	7.8	10.0	6.8	WEAK	24-29	29.1-30.2	29.8	31.9	3821 7413	0444 1903
F 7	0-15	19 5	0130	NIGHT	73	7.2-8.2	7.9	8.2	5.2	GRADUAL	-	30.1-30.9	30.4	30.0	3813 7357	0442 1903
F 7	18-33	19 5	0130	NIGHT	7											

TABLE 2. (continued)

CRUISER NO. 605 STA.	TOW DEPTH (M)	DATE 1966 D P	TOW START FST	LIGHT COND. DAY	WATER DEPTH (M)	***** TEMPERATURE (C) *****				THERMOCLINE DEGREE	THERMOCLINE DEPTH (M)	***** SALINITY (0/00) *****			***** POSITION LAT. LONG.		***** SUN RISE SET	
						RANGE	MEAN	SURF.	BOT.			RANGE	PEAK	SURF.				
G 5	18-33	19 5	0845	NIGHT	52	7.1-8.5	7.5	9.7	7.1	GRADUAL	-	29.7-30.2	30.0	32.5	3750 7438	0446	1905	
G 6	0-15	19 5	0502	DAY	90	7.3-8.4	8.0	8.4	5.2	GRADUAL	-	32.3-32.6	32.4	32.4	3742 7422	0445	1904	
G 6	18-33	19 5	0502	DAY	90	5.3-6.8	5.8	6.4	5.2	GRADUAL	-	30.4-31.6	30.9	32.4	3742 7422	0445	1904	
H 1	0-3	19 5	2036	NIGHT	13	14.6-15.0	14.8	15.0	12.7	STRONG	4-6	31.3-31.4	31.4	31.4	3734 7533	0450	1907	
H 2	0-15	19 5	1945	NIGHT	25	11.4-13.4	12.8	13.4	11.4	WEAK	6-14	31.4-31.8	31.6	31.4	3732 7522	0450	1907	
H 3	0-15	19 5	1853	DUSK	25	10.2-11.9	11.1	11.9	10.2	GRADUAL	-	31.5-31.9	31.8	31.5	3730 7522	0449	1906	
H 4	0-15	20 5	0307	NIGHT	26	10.0-10.9	10.6	10.9	9.8	GRADUAL	-	31.3-31.6	31.4	31.3	3727 7510	0448	1907	
H 5	0-15	20 5	0427	DAWN	32	8.7-10.8	10.1	10.8	8.4	WEAK	6-9	32.2-32.5	32.4	32.1	3723 7458	0447	1906	
H 5	18-24	20 5	0427	DAWN	32	8.7-8.7	8.7	10.8	8.6	WEAK	6-9	32.5-32.6	32.6	32.1	3723 7458	0447	1906	
H 6	0-15	20 5	0856	DAY	77	7.7-9.7	8.6	9.7	5.6	GRADUAL	-	32.6-32.8	32.7	32.7	3718 7440	0447	1904	
H 6	18-33	20 5	0856	DAY	77	5.9-7.5	6.5	9.7	5.6	GRADUAL	-	32.4-32.8	32.6	32.7	3718 7440	0447	1904	
H 7	0-15	20 5	0947	DAY	55	8.9-9.4	9.3	9.4	6.1	GRADUAL	-	32.7-32.9	32.8	32.9	3716 7434	0446	1903	
H 7	18-33	20 5	0947	DAY	95	7.0-8.4	7.5	9.4	6.1	GRADUAL	-	32.5-32.8	32.6	32.9	3716 7434	0446	1903	
J 1	0-6	21 5	0415	NIGHT	14	13.0-14.7	13.7	14.7	13.0	STRONG	3-4	28.4-28.7	28.6	28.3	3655 7552	0448	1905	
J 2	0-6	21 5	0505	DAY	14	13.7-15.2	14.3	15.2	13.5	WEAK	3-4	28.4-31.2	30.0	28.4	3655 7552	0451	1908	
J 3	0-6	21 5	0547	DAY	19	13.5-16.9	15.3	16.9	13.0	STRONG	1-5	25.9-30.7	28.6	25.9	3654 7545	0451	1908	
J 4	0-15	20 5	2117	NIGHT	23	10.1-16.7	13.3	16.7	10.1	WEAK	2-11	29.8-32.2	31.5	29.8	3653 7533	0451	1906	
J 5	0-15	20 5	2020	NIGHT	21	9.8-13.1	11.3	13.1	8.6	GRADUAL	-	31.9-32.4	32.1	31.9	3652 7521	0450	1905	
J 6	0-15	20 5	1646	DAY	36	8.7-10.7	9.8	10.7	8.3	GRADUAL	-	32.4-32.6	32.5	32.4	3650 7502	0449	1904	
J 6	18-33	20 5	1646	DAY	36	8.3-8.6	8.4	10.7	8.3	GRADUAL	-	32.4-32.7	32.6	32.4	3650 7502	0449	1904	
J 7	0-15	20 5	1512	DAY	79	9.2-10.4	9.7	10.4	6.4	GRADUAL	-	32.3-32.6	32.5	32.4	3648 7444	0448	1903	
J 7	18-33	20 5	1513	DAY	79	7.1-9.1	8.1	10.4	6.4	GRADUAL	-	32.2-32.3	32.2	32.4	3648 7444	0448	1903	
K 1	0-6	21 5	2119	NIGHT	18	12.8-16.3	14.4	16.3	11.8	STRONG	1-6	29.7-30.4	30.1	29.7	3623 7542	0452	1907	
K 2	0-6	21 5	2032	NIGHT	15	14.7-15.6	15.3	15.6	11.7	WEAK	5-12	28.8-30.0	29.5	28.8	3623 7542	0452	1907	
K 3	0-15	21 5	1940	NIGHT	20	10.4-14.9	13.3	14.9	10.2	STRONG	6-13	29.9-31.4	30.6	29.8	3622 7536	0451	1906	
K 4	0-15	22 5	0323	NIGHT	33	9.3-14.9	12.2	14.9	9.0	STRONG	3-6	30.2-31.7	31.1	30.2	3622 7523	0450	1907	
K 4	18-24	22 5	0323	NIGHT	33	9.0-9.1	9.0	14.9	9.0	STRONG	3-6	31.7-31.8	31.7	30.2	3622 7523	0450	1907	
K 5	0-15	22 5	0433	DAWN	34	9.4-14.4	11.8	14.4	8.4	STRONG	5-10	30.6-31.7	31.3	30.6	3622 7511	0449	1906	
K 5	18-24	22 5	0433	DAWN	34	8.5-9.1	8.8	14.4	8.4	STRONG	5-10	31.7-31.7	31.7	30.6	3622 7511	0449	1906	
K 6	0-15	22 5	0821	DAY	47	8.2-12.3	11.4	12.3	7.5	WEAK	5-11	31.2-31.8	31.5	31.2	3621 7458	0449	1905	
K 6	18-33	22 5	0821	DAY	47	7.6-8.1	7.8	12.3	7.5	WEAK	5-11	31.5-31.7	31.6	31.2	3621 7458	0449	1905	
K 7	0-15	22 5	1027	DAY	594	9.2-10.7	10.2	10.7	6.5	GRADUAL	-	31.2-31.7	31.4	31.3	3621 7446	0448	1904	
K 7	18-33	22 5	1027	DAY	594	7.2-8.9	8.1	10.7	6.5	GRADUAL	-	31.4-31.7	31.6	31.3	3621 7446	0448	1904	
L 1	0-6	22 5	2343	NIGHT	13	12.7-14.7	13.7	14.7	11.0	WEAK	1-7	28.9-30.2	29.6	28.9	3546 7530	0452	1905	
L 2	0-6	23 5	0041	NIGHT	23	14.2-14.6	14.6	14.6	10.8	WEAK	5-10	29.6-29.8	29.7	29.8	3546 7524	0451	1906	
L 3	0-15	23 5	0139	NIGHT	37	12.3-14.6	14.0	14.6	10.3	WEAK	7-10	29.7-30.4	30.0	29.7	3546 7517	0450	1905	
L 3	18-33	23 5	0139	NIGHT	37	10.2-11.6	10.7	14.6	10.3	WEAK	7-10	30.7-31.2	31.0	29.7	3546 7517	0450	1905	
L 4	0-15	22 5	1648	DAY	43	11.1-14.3	12.8	14.3	8.9	STRONG	5-7	30.4-30.8	30.6	30.5	3545 7505	0450	1903	
L 4	18-33	22 5	1648	DAY	43	9.0-10.8	9.8	14.3	8.9	STRONG	5-7	31.0-31.4	31.3	30.5	3545 7505	0450	1903	
L 5	0-15	22 5	1541	DAY	70	10.7-14.7	12.0	14.7	10.2	-	-	30.2-31.5	30.9	30.1	3545 7452	0449	1902	
L 5	18-33	22 5	1541	DAY	70	10.2-10.6	10.5	14.7	10.2	-	-	31.2-31.6	31.5	30.1	3545 7452	0449	1902	
M 1	0-6	23 5	1038	DAY	14	15.0-15.0	15.0	15.0	14.8	NONE	-	30.0-30.3	30.2	30.0	3518 7529	0453	1905	
M 2	0-6	23 5	0929	DAY	25	17.6-17.7	17.7	17.7	16.9	NONE	-	32.6-32.7	32.7	32.7	3516 7523	0453	1905	
M 3	0-6	23 5	0829	DAY	21	19.7-19.7	19.7	19.7	21.3	NONE	-	33.8-33.9	33.8	33.8	3514 7518	0452	1904	
M 4	0-15	23 5	16 4	DAY	38	21.6-22.4	22.1	22.4	21.5	NONE	-	34.8-35.4	35.0	35.2	3512 7512	0452	1904	
M 4	18-24	23 5	1604	DAY	38	21.5-21.5	21.5	22.4	21.5	NONE	-	35.2-35.4	35.3	35.2	3512 7512	0452	1904	
M 5	0-15	23 5	1719	DAY	160	22.9-22.9	22.9	22.9	17.1	GRADUAL	-	35.3-35.5	35.4	35.4	3510 7507	0451	1903	
M 5	18-33	23 5	1719	DAY	160	22.5-22.9	22.7	22.9	17.1	GRADUAL	-	35.4-35.5	35.5	35.4	3510 7507	0451	1903	
N 1	0-15	24 5	0059	NIGHT	26	19.1-19.1	19.1	19.1	19.1	NONE	-	33.0-33.6	33.2	33.3	3451 7557	0451	1903	
N 2	0-15	24 5	0154	NIGHT	25	19.5-20.0	19.6	19.5	20.0	NONE	-	33.1-34.7	33.4	33.1	3456 7555	0451	1903	
N 3	0-15	24 5	0255	NIGHT	31	20.4-20.6	20.5	20.4	20.7	NONE	-	33.7-35.1	34.0	33.9	3451 7552	0454	1906	
N 3	18-24	24 5	0255	NIGHT	31	20.7-20.7	20.7	20.4	20.7	NONE	-	34.9-35.1	35.0	33.9	3451 7552	0454	1906	
N 4	0-15	24 5	0430	DAWN	46	23.4-23.4	23.4	23.4	20.9	WEAK	26-32	35.2-35.3	35.3	35.1	3442 7548	0454	1905	
N 4	18-33	24 5	0430	DAWN	46	21.3-23.4	22.8	23.4	20.9	WEAK	26-32	35.3-35.9	35.6	35.1	3442 7548	0454	1905	
N 5	0-15	25 5	0158	NIGHT	100	26.0-26.0	26.0	26.0	20.4	GRADUAL	-	35.3-35.7	35.5	35.7	3433 7544	0454	1906	
N 5	18-33	25 5	0158	NIGHT	100	24.4-25.9	25.1	26.0	20.4	GRADUAL	-	35.4-35.6	35.6	35.7	3433 7544	0454	1906	
F 1	0-6	24 5	1524	DAY	17	20.2-20.5	20.4	20.5	18.9	NONE	-	33.4-33.5	33.4	33.4	3438 7540	0459	1909	
P 2	0-6	24 5	1615	DAY	18	19.1-19.9	19.5	19.9	18.6	NONE	-	33.2-33.8	33.6	33.2	3434 7637	0458	1908	
P 3	0-6	24 5	1736	DAY	16	19.8-19.8	19.8	19.8	19.8	NONE	-	33.5-33.8	33.7	33.5	3425 7636	0458	1908	
F 4	0-15	24 5	1904	DUSK	27	20.7-20.8	20.8	20.8	21.1	NONE	-	34.1-35.0	34.9	34.6	3417 7623	0458	1907	
P 4	18-24	24 5	1904	DUSK	27	20.7-20.8	20.7	20.8	21.1	NONE	-	35.2-35.4	35.3	34.6	3417 7623	0458	1907	
P 5	0-15	24 5	2303	NIGHT	161	26.4-26.5	26.4	26.4	22.1	GRADUAL	-	35.5-35.7	35.6	35.6	3404 7613	0458	1906	
P 5	18-33	24 5	2303	NIGHT	161	26.5-26.5	26.5	26.4	22.1	GRADUAL	-	35.5-35.7	35.6	35.6	3404 7613	0458	1906	

TABLE 2. (continued)

CRUISE D6607 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START EST	LIGHT COND.	WATER DEPTH (F)	***** TEMPERATURE (C) *****			***** BOT.	THERMOCLINE DEGREE	**** SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN **		
						RANGE	MEAN	SURF.						RISE	SET	
A 1	0-6	17 6	0827	DAY	19	13.6-13.6	13.6	13.6	13.4	NONE	-	31.6-31.8	31.7	31.6	4117 7048	0409 1918
A 2	0-15	17 6	0927	DAY	33	10.8-13.9	13.3	13.9	8.9	STRONG	12-18	31.6-32.6	32.1	31.9	4112 7047	0410 1918
A 3	0-15	17 6	1037	DAY	38	9.6-14.1	13.0	14.1	8.1	WEAK	9-16	31.9-32.0	31.9	31.9	4107 7046	0410 1918
A 3	18-24	17 6	1037	DAY	38	8.5-9.1	8.7	14.1	8.1	WEAK	9-16	32.2-32.4	32.3	31.9	4107 7046	0410 1918
A 4	0-15	17 6	1222	DAY	52	10.6-14.5	13.8	14.5	6.2	STRONG	13-18	31.7-31.8	31.7	31.6	4057 7044	0410 1917
A 4	18-33	17 6	1222	DAY	52	6.3-8.6	6.8	14.5	6.2	STRONG	13-18	31.8-32.3	32.1	31.6	4057 7044	0410 1917
A 5	0-15	17 6	1603	DAY	62	10.6-15.0	14.1	15.0	5.4	STRONG	11-19	31.9-32.1	31.6	31.2	4047 7042	0411 1917
A 5	18-33	17 6	1603	DAY	62	5.8-8.1	6.2	15.0	5.4	STRONG	11-19	31.9-32.3	32.2	31.2	4047 7042	0411 1917
A 6	0-15	17 6	1819	DAY	74	13.6-14.1	13.9	14.1	5.2	STRONG	16-20	32.0-32.2	32.1	32.0	4032 7040	0412 1916
A 6	18-33	17 6	1819	DAY	74	5.8-12.3	8.1	14.1	5.2	STRONG	16-20	32.0-32.7	32.4	32.0	4032 7040	0412 1916
A 7	0-15	17 6	2243	NIGHT	110	10.6-14.1	12.7	14.1	9.3	GRADUAL	-	31.9-33.1	32.5	32.4	4017 7037	0411 1914
A 7	18-33	17 6	2243	NIGHT	110	5.6-9.9	7.6	14.1	9.3	GRADUAL	-	32.7-32.9	32.8	32.4	4017 7037	0411 1914
B 1	0-15	18 6	1632	DAY	24	13.8-14.4	14.0	14.4	14.1	NONE	-	29.5-30.4	30.3	29.9	4103 7151	0414 1922
B 2	0-15	18 6	1522	DAY	44	10.6-14.0	12.8	14.0	7.2	WEAK	6-12	30.4-31.0	30.8	30.3	4058 7149	0414 1922
B 2	18-24	18 6	1522	DAY	44	8.2-10.3	9.5	14.0	7.2	WEAK	6-12	31.0-31.5	31.2	30.3	4058 7149	0414 1922
B 3	0-15	18 6	1425	DAY	52	6.4-13.7	11.3	13.7	5.9	STRONG	10-14	30.2-31.6	31.0	30.6	4054 7147	0415 1921
B 3	18-33	18 6	1425	DAY	52	5.5-8.4	6.3	13.7	5.9	STRONG	10-14	31.7-32.1	31.9	30.6	4054 7147	0415 1921
B 4	0-15	18 6	1302	DAY	63	12.3-15.4	14.3	15.4	5.1	STRONG	12-20	31.2-31.6	31.4	31.2	4044 7144	0415 1921
B 4	18-33	18 6	1302	DAY	63	6.1-8.6	7.0	15.4	5.1	STRONG	12-20	31.7-32.2	32.0	31.2	4044 7144	0415 1921
B 5	0-15	18 6	0936	DAY	76	9.3-14.8	13.8	14.8	4.5	STRONG	10-15	30.6-31.7	30.9	30.6	4034 7140	0416 1920
B 5	18-33	18 6	0936	DAY	76	6.3-8.3	7.1	14.8	4.5	STRONG	10-15	31.7-32.0	31.8	30.6	4034 7140	0416 1920
B 6	0-15	18 6	0733	DAY	86	13.4-15.1	14.7	15.1	4.6	WEAK	13-27	31.3-32.1	31.5	31.3	4020 7135	0415 1918
B 6	18-33	18 6	0733	DAY	86	6.5-12.1	8.6	15.1	4.6	WEAK	13-27	32.1-32.4	32.3	31.3	4020 7135	0415 1918
B 7	0-15	18 6	0312	NIGHT	93	10.7-14.0	13.3	14.0	7.5	WEAK	10-33	31.7-32.1	31.9	31.8	4005 7129	0416 1917
B 7	18-33	18 6	0312	NIGHT	93	5.5-9.9	7.6	14.0	7.5	WEAK	10-33	32.1-32.7	32.4	31.8	4005 7129	0416 1917
C 1	0-15	19 6	0528	DAY	25	11.7-16.7	14.5	16.7	11.7	GRADUAL	-	30.7-31.1	30.9	30.6	4035 7317	0422 1927
C 2	0-15	19 6	0630	DAY	31	11.4-16.0	14.4	16.0	9.6	WEAK	9-16	30.1-31.5	30.5	30.8	4031 7314	0422 1926
C 2	18-27	19 6	0630	DAY	31	9.7-10.6	9.9	16.0	9.6	WEAK	9-16	31.5-31.7	31.6	30.8	4031 7314	0422 1926
C 3	0-15	19 6	0727	DAY	36	13.1-16.2	14.4	16.2	7.9	WEAK	14-22	31.0-31.4	31.2	31.1	4027 7310	0422 1926
C 3	18-33	19 6	0727	DAY	36	8.2-10.8	8.7	16.2	7.9	WEAK	14-22	31.1-31.9	31.6	31.1	4027 7310	0422 1926
C 4	0-15	19 6	0855	DAY	41	10.4-15.3	13.7	15.3	5.3	STRONG	12-18	30.1-31.2	30.6	30.6	4019 7303	0426 1929
C 4	18-24	19 6	0855	DAY	41	6.2-8.3	6.7	15.3	5.3	STRONG	12-18	31.7-32.0	31.9	30.6	4019 7303	0426 1929
C 5	0-15	19 6	1224	DAY	50	9.1-16.4	14.9	16.4	5.5	STRONG	10-14	30.2-31.1	30.5	30.4	4010 7255	0422 1924
C 5	18-33	19 6	1224	DAY	50	6.1-8.8	7.5	16.4	5.5	STRONG	10-14	31.2-31.9	31.6	30.4	4010 7255	0422 1924
C 6	0-15	19 6	1421	DAY	59	9.7-15.6	13.8	15.6	5.0	STRONG	10-17	30.6-31.1	30.8	30.6	3958 7244	0422 1922
C 6	18-33	19 6	1421	DAY	59	5.2-8.3	6.3	15.6	5.0	STRONG	10-17	31.3-32.1	31.8	30.6	3958 7244	0422 1922
C 7	0-15	19 6	1943	NIGHT	78	11.3-15.5	14.0	15.5	5.1	WEAK	15-20	31.0-32.0	31.4	31.3	3946 7233	0422 1921
C 7	18-33	19 6	1943	NIGHT	78	6.1-8.1	7.1	15.5	5.1	WEAK	15-20	32.3-32.8	32.6	31.3	3946 7233	0422 1921
C 8	0-15	19 6	2210	NIGHT	216	14.6-14.8	14.8	14.8	8.3	STRONG	15-30	31.6-31.7	31.7	31.6	3934 7222	0422 1920
C 8	18-33	19 6	2210	NIGHT	216	5.1-13.6	8.6	14.8	8.3	STRONG	15-30	31.8-32.8	32.4	31.6	3934 7222	0422 1920
D 1	0-6	20 5	1530	DAY	18	12.2-14.1	13.1	14.1	10.2	GRADUAL	-	31.7-31.8	31.8	30.5	3951 7404	0431 1932
D 2	0-6	20 5	1425	DAY	23	15.7-16.8	16.5	16.8	8.1	WEAK	8-16	31.4-31.8	31.6	29.5	3948 7359	0428 1927
D 3	0-15	20 5	1329	DAY	26	10.3-17.2	15.6	17.2	9.1	STRONG	11-17	30.6-31.3	30.8	30.7	3945 7354	0428 1927
D 4	0-15	20 5	1209	DAY	31	15.1-17.6	16.5	17.6	8.2	STRONG	14-20	30.3-30.9	30.7	30.6	3939 7343	0427 1926
D 4	18-24	20 5	1209	DAY	31	8.2-11.0	8.7	17.6	8.2	STRONG	14-20	31.4-31.8	31.7	30.6	3939 7343	0427 1926
D 5	0-15	20 6	1038	DAY	41	13.7-16.8	15.9	16.8	8.1	WEAK	11-21	30.2-31.2	30.5	30.2	3932 7333	0426 1925
D 5	18-33	20 6	1038	DAY	41	8.1-10.7	8.4	16.8	8.1	WEAK	11-21	31.4-32.1	31.8	30.2	3932 7333	0426 1925
D 6	0-15	20 6	0744	DAY	57	14.9-16.8	16.1	16.8	7.1	STRONG	14-20	30.6-31.2	30.9	25.5	3923 7319	0426 1923
D 6	18-33	20 6	0744	DAY	57	8.3-11.3	8.8	16.8	7.1	STRONG	14-20	31.6-32.2	31.9	25.5	3923 7319	0426 1923
D 7	0-15	20 6	0525	DAY	75	11.1-15.6	14.2	15.6	4.4	WEAK	8-25	30.9-31.5	31.2	30.9	3914 7303	0425 1926
D 7	18-33	20 6	0525	DAY	75	6.7-9.7	7.6	15.6	4.4	WEAK	8-25	31.6-32.1	31.9	30.9	3914 7303	0425 1926
D 8	0-15	20 6	0343	NIGHT	108	14.1-15.0	14.7	15.0	8.0	GRADUAL	-	31.6-32.1	31.8	31.5	3906 7250	0425 1920
D 8	18-33	20 6	0343	NIGHT	108	8.8-13.4	10.5	15.0	8.0	GRADUAL	-	32.1-32.6	32.3	31.5	3906 7250	0425 1920
E 1	0-3	29 6	0705	DAY	14	15.6-17.1	16.4	17.1	14.7	GRADUAL	-	32.0-32.1	32.0	31.9	3917 7431	0434 1929
E 2	0-6	29 6	0616	DAY	19	18.0-19.7	19.5	19.7	11.3	STRONG	4-11	31.8-31.9	31.8	31.8	3914 7425	0434 1929
E 3	0-6	29 6	0524	DAY	24	17.7-19.4	18.9	19.4	10.6	STRONG	4-12	31.7-31.7	31.7	31.6	3911 7420	0433 1927
E 4	0-15	29 6	0408	DAWN	27	13.7-19.3	16.4	19.3	10.6	GRADUAL	-	31.5-31.9	31.7	31.5	3905 7409	0433 1927
E 5	0-15	29 6	0247	NIGHT	40	13.2-18.7	17.5	18.7	8.0	WEAK	8-20	31.3-31.9	31.6	31.8	3859 7359	0433 1926
E 5	18-33	29 6	0247	NIGHT	40	7.5-10.8	8.5	18.7	8.0	WEAK	8-20	31.8-32.3	32.2	31.8	3859 7359	0433 1926
E 6	0-15	29 6	0128	NIGHT	49	13.6-19.1	17.8	19.1	7.0	STRONG	9-23	31.6-31.8	31.7	31.6	3854 7349	0432 1925
E 6	18-33	29 6	0128	NIGHT	49	7.0-12.0	8.3	19.1	7.0	STRONG	9-23	31.4-32.3	31.9	31.6	3854 7349	0432 1925
E 7	0-15	28 6	2340	NIGHT	68	13.5-18.5	17.6	18.5	5.2	WEAK	10-33	31.6-31.9	31.8	31.8	3845 7333	0431 1923
E 7	18-33	28 6	2340	NIGHT	68	5.5-11.8	8.1	18.5	5.2	WEAK	10-33	31.9-32.2	32.0	31.8	3845 7333	0431 1923
E 8	0-15	28 6	2125	NIGHT	151	12.7-18.4	16.2	18.4	8.0	WEAK	8-28	32.2-33.2	32.6	32.2	3836 7318	0430 1922
E 8	18-33	28 6	2125	NIGHT	151											

TABLE 2. (continued)

30

CRUISE D6607 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START EST	LIGHT COND.	WATER DEPTH (M)	TEMPERATURE (C)			THERMOCLINE DEPTH (M)	SALINITY (0/00)	POSITION LAT. LONG.	SUN RISE SET			
						**** RANGE	MEAN SURF.	**** BOT.							
G 6	0-15	27 6	2153	NIGHT	88	14.7-18.4	17.0	18.4	6.2	WEAK	7-30	32.5-33.5 33.1	32.4	3742 7422	(43E 1924
G 6	18-33	27 5	2153	NIGHT	88	5.3-12.5	8.1	18.4	6.2	WEAK	7-30	32.5-33.5 33.1	32.4	3742 7422	043E 1924
F 1	0-3	27 6	1613	DAY	17	19.8-21.7	20.8	21.7	17.1	WEAK	2-7	31.6-31.6 31.6	31.6	3734 7533	(44E 1927
H 2	0-6	27 5	1521	DAY	22	18.1-21.2	19.6	21.2	15.5	WEAK	2-11	30.3-31.0 30.7	30.3	3732 7528	044E 1927
H 3	0-6	27 6	1434	DAY	24	18.8-21.5	20.3	21.5	15.3	WEAK	0-11	31.0-31.4 31.2	30.9	3730 7522	044E 1926
H 4	0-15	27 5	1319	DAY	27	14.3-20.7	18.5	20.7	13.7	WEAK	5-15	31.1-31.4 31.3	31.3	3727 7510	044E 1926
H 4	18-24	27 6	1319	DAY	27	13.7-14.0	13.9	20.7	13.7	WEAK	5-15	31.4-31.4 31.4	31.3	3727 7510	044E 1926
H 5	0-15	27 6	1145	DAY	36	15.4-19.3	18.0	19.3	11.4	GRADUAL	-	31.6-31.7 31.7	31.7	3723 7456	(44E 1925
H 5	18-33	27 5	1145	DAY	36	11.5-14.6	12.8	19.3	11.4	GRADUAL	-	31.8-32.1 32.0	31.7	3723 7458	044E 1925
H 6	0-15	27 6	0554	DAY	88	12.1-18.6	15.8	18.6	6.2	WEAK	0-30	32.1-32.0 32.3	32.1	3718 7440	044E 1924
H 6	18-33	27 5	0805	DAY	88	6.1-10.3	7.8	18.6	6.2	WEAK	0-30	32.1-32.5 32.3	32.1	3718 7440	044E 1924
H 7	0-15	27 6	0658	DAY	158	15.2-18.7	17.8	18.7	9.3	WEAK	11-31	32.6-32.8 32.7	32.6	3716 7434	043E 1922
H 7	18-33	27 6	0658	DAY	158	8.2-13.6	10.3	18.7	9.3	WEAK	11-31	32.7-33.3 33.0	32.6	3716 7434	(43E 1922
J 1	0-6	26 6	1411	DAY	11	20.9-22.1	21.8	22.1	17.5	STRONG	4-10	24.7-25.4 24.8	24.6	3655 7556	(44E 1923
J 2	0-6	26 6	1504	DAY	13	17.2-20.6	18.8	20.6	16.0	WEAK	0-7	27.0-30.2 28.8	27.0	3655 7552	044E 1926
J 3	0-6	26 6	1602	DAY	17	18.0-20.0	19.0	20.0	16.3	WEAK	1-7	30.1-30.6 30.4	30.1	3654 7545	044E 1926
J 4	0-6	26 6	1721	DAY	21	19.4-19.5	19.8	19.8	12.6	GRADUAL	-	31.0-31.1 31.1	31.0	3653 7533	(44E 1925
J 5	0-15	26 5	2029	NIGHT	29	13.2-20.1	17.4	20.1	12.9	GRADUAL	-	31.4-31.8 31.6	31.7	3652 7521	044E 1924
J 6	0-15	27 6	2229	NIGHT	36	15.2-18.5	16.9	18.5	11.6	GRADUAL	-	31.9-32.0 31.9	31.5	3650 7502	(44E 1923
J 6	18-24	27 5	2229	NIGHT	36	12.3-14.3	13.3	18.5	11.6	GRADUAL	-	31.9-32.1 32.0	31.9	3650 7502	044E 1923
J 7	0-15	27 6	0216	NIGHT	82	12.1-18.6	14.8	18.6	5.9	GRADUAL	-	31.8-31.9 31.9	31.8	3648 7444	044E 1922
J 7	18-33	27 6	0216	NIGHT	82	8.2-11.4	10.0	18.6	5.9	GRADUAL	-	32.0-32.3 32.1	31.8	3648 7444	(44E 1922
K 1	0-6	26 6	0532	DAY	16	20.6-22.0	21.6	22.0	17.0	STRONG	6-11	27.5-28.6 27.9	27.5	3623 7548	(44E 1925
K 2	0-15	26 6	0437	DAWN	23	13.5-21.4	17.4	21.4	13.9	GRADUAL	-	28.9-31.7 30.7	28.9	3623 7542	044E 1925
K 3	0-15	26 6	0345	NIGHT	27	15.1-20.8	18.1	20.8	14.9	WEAK	4-14	30.8-31.6 31.1	30.7	3622 7536	044E 1924
K 4	0-15	26 6	0218	NIGHT	30	16.3-19.5	17.7	19.5	13.8	GRADUAL	-	31.4-31.6 31.5	31.4	3622 7523	(44E 1924
K 4	18-24	26 5	0218	NIGHT	30	13.9-15.2	14.4	19.5	13.8	GRADUAL	-	31.8-31.9 31.9	31.4	3622 7523	044E 1924
K 5	0-15	25 6	2238	NIGHT	33	14.3-19.5	17.5	19.5	14.1	WEAK	6-14	31.2-32.0 31.8	31.2	3622 7511	044E 1923
K 5	18-24	25 5	2238	NIGHT	33	14.1-14.2	14.1	19.5	14.1	WEAK	6-14	32.1-32.2 32.1	31.2	3622 7511	044E 1923
K 6	0-15	25 6	2105	NIGHT	46	14.8-19.4	17.6	19.4	10.1	GRADUAL	-	32.1-32.7 32.5	32.0	3621 7458	044E 1922
K 6	18-33	25 6	2105	NIGHT	46	11.8-14.3	13.2	19.4	10.1	GRADUAL	-	32.1-32.8 32.4	32.0	3621 7458	(44E 1922
K 7	0-15	25 6	1741	DAY	526	16.1-19.2	18.0	19.2	11.1	GRADUAL	-	32.0-32.6 32.4	31.9	3621 7446	044E 1921
K 7	18-33	25 6	1741	DAY	526	10.7-15.4	13.1	19.2	11.1	GRADUAL	-	32.3-32.8 32.6	31.9	3621 7446	044E 1921
L 1	0-6	23 6	0102	NIGHT	16	18.5-19.4	19.2	19.4	18.3	GRADUAL	-	29.2-29.4 29.2	29.2	3546 7530	044E 1922
L 2	0-6	22 6	2325	NIGHT	38	18.5-18.7	18.6	18.7	18.1	NONE	-	31.5-31.7 31.6	31.5	3546 7524	044E 1922
L 3	0-15	22 6	2144	NIGHT	38	15.5-16.7	16.0	16.7	15.6	NONE	-	32.0-32.8 32.3	32.0	3546 7517	044E 1921
L 3	18-24	22 6	2144	NIGHT	38	15.3-15.4	15.3	16.7	15.6	NONE	-	32.8-32.8 32.8	32.0	3546 7517	044E 1921
L 4	0-15	22 6	2028	NIGHT	51	14.7-17.8	16.0	17.8	12.5	GRADUAL	-	32.3-32.9 32.6	32.3	3545 7505	044E 1920
L 4	18-33	22 6	2028	NIGHT	51	11.7-13.9	12.5	17.8	12.5	GRADUAL	-	32.2-33.3 32.8	32.3	3545 7505	044E 1920
L 5	0-15	22 6	1903	DUSK	151	16.6-19.0	17.9	18.9	7.2	-	-	31.8-34.0 32.8	31.8	3545 7452	(44E 1919
L 5	18-33	22 6	1903	DUSK	151	14.6-19.6	17.6	18.9	7.2	-	-	34.2-34.5 34.4	31.8	3545 7452	044E 1919
M 1	0-6	23 6	1706	DAY	15	19.6-19.7	19.7	19.6	19.7	NONE	-	30.1-30.6 30.3	30.6	3518 7529	044E 1920
M 2	0-15	23 5	1805	DAY	21	19.8-22.1	20.3	19.8	22.1	GRADUAL	-	31.5-34.4 32.1	31.5	3516 7523	044E 1920
M 3	0-15	23 6	1853	DUSK	27	23.7-24.9	24.6	23.7	24.5	NONE	-	35.2-36.4 35.8	35.1	3514 7516	(44E 1919
M 4	0-15	23 5	2003	NIGHT	68	25.2-26.2	25.8	26.2	23.3	GRADUAL	-	36.6-36.8 36.7	36.6	3512 7512	044E 1919
M 4	18-33	23 5	2003	NIGHT	68	23.9-25.1	24.8	26.2	23.3	GRADUAL	-	36.7-36.9 36.8	36.6	3512 7512	044E 1919
M 5	0-15	23 6	2110	NIGHT	269	25.8-26.6	26.5	26.6	17.3	WEAK	14-20	36.6-36.8 36.7	36.5	3510 7507	044E 1918
M 5	18-33	23 5	2110	NIGHT	269	25.0-25.4	25.1	26.6	17.3	WEAK	14-20	36.6-36.7 36.7	36.5	3510 7507	044E 1918
N 1	0-15	24 5	0314	NIGHT	25	23.6-23.6	23.6	23.6	23.3	NONE	-	35.5-35.8 35.7	35.5	3501 7557	044E 1918
N 2	0-15	24 6	0220	NIGHT	25	24.0-24.1	24.0	24.0	24.0	NONE	-	35.7-35.9 35.8	35.8	3456 7555	044E 1918
N 3	0-15	24 6	0124	NIGHT	31	24.2-25.4	25.2	25.4	24.2	WEAK	10-13	35.9-36.3 36.1	36.3	3451 7552	(45E 1920
N 4	0-15	24 6	0851	DAY	46	25.4-25.5	25.5	25.5	22.3	GRADUAL	-	36.1-36.2 36.1	36.2	3442 7548	045E 1920
N 4	18-33	24 6	0851	DAY	46	23.0-25.3	24.4	25.5	22.3	GRADUAL	-	36.1-36.3 36.2	36.2	3442 7548	(45E 1920
N 5	0-15	24 6	1038	DAY	08	25.3-25.6	25.5	25.6	18.4	GRADUAL	-	36.0-36.2 36.1	36.1	3433 7544	045E 1919
N 5	18-33	24 6	1038	DAY	08	22.1-25.1	23.7	25.6	18.4	GRADUAL	-	36.1-36.3 36.2	36.1	3433 7544	(45E 1919
P 1	0-6	24 6	1834	DAY	16	23.6-24.0	24.0	24.0	22.0	STRONG	7-10	33.4-33.5 33.4	33.4	3438 7540	045E 1924
P 2	0-6	24 6	2126	NIGHT	18	22.8-23.8	23.3	23.8	22.0	GRADUAL	-	33.3-33.5 33.3	33.3	3434 7637	045E 1922
P 3	0-6	24 6	2311	NIGHT	16	23.5-23.7	23.6	23.7	23.0	GRADUAL	-	34.6-34.6 34.6	34.5	3425 7636	045E 1922
P 4	0-15	24 6	1518	DAY	34	22.6-24.2	23.1	24.2	22.7	NONE	-	34.8-34.9 34.9	34.7	3417 7623	045E 1922
P 4	18-24	24 6	1518	DAY	34	22.6-24.2	23.1	24.2	22.7	NONE	-	34.8-34.9 34.9	34.7	3417 7623	045E 1922
P 5	0-15	25 6	0426	DAWN	209	27.2-27.3	27.2	27.2	20.2	GRADUAL	-	36.2-36.3 36.3	36.2	3404 7613	045E 1920
P 5	18-33	25 6	0426	DAWN	209	27.3-27.3	27.3	27.2	20.2	GRADUAL	-	36.2-36.4 36.3	36.2	3404 7613	(45E 1920

TABLE 2. (continued)

CRUISE D66LC STA.	TOW DEPTH (M)	DATE 1966 D #	TOW START HST	LIGHT COND.	WATER DEPTH (M)	TEMPERATURE (C)				**** BOT.	THERMOCLINE DEGREE DEPTH (M)	**** SALINITY (0/00)		**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
						**** RANGE	MEAN	SURF.	****			RANGE	MEAN			
A 1	0-6	5 8	0402	NIGHT	16	17.3-17.6	17.5	17.6	17.1	NONE	-	30.9-31.0	30.9	30.8	4117 7048	0441 1855
A 2	0-15	5 8	0507	DAY	29	14.5-18.2	16.6	18.2	12.5	GRADUAL	-	30.7-31.3	31.1	31.1	4112 7047	0442 1855
A 3	0-15	5 8	0601	DAY	34	12.8-18.8	16.5	18.8	10.4	GRADUAL	-	31.2-31.5	31.3	31.5	4107 7046	0442 1855
A 3	18-24	5 8	0601	DAY	34	12.6-12.7	12.7	18.8	10.4	GRADUAL	-	31.3-31.4	31.3	31.5	4107 7046	0442 1855
A 4	0-15	5 8	0740	DAY	52	11.0-17.7	15.4	17.7	7.4	GRADUAL	-	31.3-31.7	31.5	31.2	4057 7044	0442 1855
A 4	18-33	5 8	0740	DAY	52	8.2-10.7	9.4	17.7	7.4	GRADUAL	-	31.7-32.3	31.9	31.2	4057 7044	0442 1855
A 5	0-15	5 8	1119	DAY	58	20.1-20.5	20.4	20.5	9.3	STRONG	15-26	31.9-32.0	32.0	31.8	4047 7042	0442 1854
A 5	18-33	5 8	1119	DAY	58	9.5-18.5	12.4	20.5	9.3	STRONG	15-26	31.2-33.5	32.3	31.8	4047 7042	0442 1854
A 6	0-15	5 8	1341	DAY	70	19.8-20.7	20.5	20.7	9.0	STRONG	15-34	31.5-32.9	32.8	32.5	4032 7040	0443 1854
A 6	18-33	5 8	1341	DAY	70	11.1-17.2	14.4	20.7	9.0	STRONG	15-34	32.9-33.6	33.4	32.5	4032 7040	0443 1854
A 7	0-15	5 8	1641	DAY	108	21.4-21.5	21.4	21.5	12.1	WEAK	20-44	33.0-33.2	33.1	33.1	4017 7037	0442 1852
A 7	18-33	5 8	1641	DAY	108	15.5-21.1	18.1	21.5	12.1	WEAK	20-44	33.1-33.7	33.3	33.1	4017 7037	0442 1852
B 1	0-15	6 8	1249	DAY	20	17.5-18.5	17.7	18.5	17.5	NONE	-	30.1-30.3	30.2	30.1	4103 7151	0447 1858
B 2	0-15	6 8	1049	DAY	34	15.5-17.2	17.1	17.8	10.5	GRADUAL	-	30.3-30.6	30.4	30.3	4058 7145	0447 1858
B 2	18-21	6 8	1049	DAY	34	12.5-14.2	13.3	17.8	10.5	GRADUAL	-	31.0-31.3	31.2	30.3	4058 7149	0447 1858
B 3	0-15	6 8	1001	DAY	44	13.0-17.8	16.2	17.8	7.5	GRADUAL	-	30.9-31.1	31.0	30.8	4054 7147	0447 1857
B 3	18-33	6 8	1001	DAY	44	8.5-11.6	9.5	17.8	7.5	GRADUAL	-	31.0-31.3	31.2	30.8	4054 7147	0447 1857
B 4	0-15	6 8	0620	DAY	59	12.0-18.8	17.3	18.8	5.6	STRONG	7-17	30.8-31.5	31.0	30.7	4044 7144	0448 1857
B 4	18-33	6 8	0620	DAY	59	7.2-10.4	8.4	18.8	5.6	STRONG	7-17	31.2-31.5	31.4	30.7	4044 7144	0448 1857
B 5	0-15	6 8	0444	DAWN	73	19.5-19.9	19.7	19.9	5.2	STRONG	16-33	31.0-31.1	31.1	30.8	4036 7140	0448 1857
B 5	18-33	6 8	0444	DAWN	73	7.2-18.6	11.7	19.9	5.2	STRONG	16-33	31.3-31.6	31.4	30.8	4036 7140	0448 1857
B 6	0-15	6 8	0033	NIGHT	84	21.3-21.3	21.3	21.3	7.3	STRONG	20-39	31.9-32.4	32.0	32.0	4020 7135	0447 1855
B 6	18-33	6 8	0033	NIGHT	84	13.3-20.7	17.2	21.3	7.3	STRONG	20-39	32.2-32.9	32.5	32.0	4020 7135	0447 1855
B 7	0-15	5 8	2240	NIGHT	95	21.5-21.6	21.6	21.6	9.2	STRONG	16-30	32.2-32.2	32.2	32.1	4005 7129	0447 1856
B 7	18-33	5 8	2240	NIGHT	95	10.1-21.1	14.5	21.6	9.2	STRONG	16-30	31.3-32.3	32.0	32.1	4005 7129	0447 1856
C 1	0-6	6 8	2343	NIGHT	19	19.8-20.6	20.5	20.6	12.3	STRONG	5-13	30.6-30.8	30.7	30.8	4035 7317	0454 1903
C 2	0-15	7 8	0037	NIGHT	28	13.3-20.2	18.2	20.2	9.6	WEAK	5-19	30.6-30.8	30.7	30.7	4031 7314	0455 1901
C 3	0-15	7 8	0139	NIGHT	32	14.5-20.3	18.8	20.3	7.9	STRONG	11-22	30.6-30.7	30.7	30.7	4027 7310	0455 1901
C 3	18-24	7 8	0139	NIGHT	32	7.9-11.5	8.5	20.3	7.9	STRONG	11-22	31.1-31.5	31.4	30.7	4027 7310	0455 1901
C 4	0-15	7 8	0313	NIGHT	40	11.9-20.9	18.1	20.9	6.8	STRONG	5-21	30.5-31.4	30.9	30.8	4019 7302	0458 1904
C 4	18-33	7 8	0313	NIGHT	40	7.1-10.1	8.1	20.9	6.8	STRONG	5-21	30.8-31.4	31.1	30.8	4019 7302	0458 1904
C 5	0-15	7 8	0645	DAY	48	10.5-19.9	17.5	19.9	5.9	STRONG	8-18	31.2-31.9	31.4	31.1	4010 7255	0459 1900
C 5	18-33	7 8	0645	DAY	48	6.4-8.5	6.8	19.9	5.9	STRONG	8-18	31.4-31.8	31.6	31.0	4010 7255	0459 1900
C 6	0-15	7 8	0905	DAY	55	8.2-20.5	17.2	20.5	4.3	STRONG	6-15	31.0-32.2	31.5	31.0	3958 7244	0454 1858
C 6	18-33	7 8	0905	DAY	55	5.1-7.6	6.3	20.5	4.3	STRONG	6-15	31.5-31.9	31.7	31.0	3958 7244	0454 1858
C 7	0-15	7 8	1306	DAY	65	20.7-22.4	21.2	22.4	4.8	STRONG	15-26	31.2-31.3	31.3	31.2	3966 7233	0454 1857
C 7	18-33	7 8	1306	DAY	65	5.7-19.9	8.5	22.4	4.8	STRONG	15-26	31.1-32.6	31.7	31.2	3966 7233	0454 1857
C 8	0-15	7 8	1530	DAY	159	21.4-22.3	21.9	22.3	10.3	STRONG	16-30	31.4-31.5	31.5	31.5	3934 7222	0454 1856
C 8	18-33	7 8	1530	DAY	159	10.2-20.3	14.2	22.3	10.3	STRONG	16-30	31.2-31.7	31.3	31.5	3934 7222	0454 1856
D 1	0-6	8 8	1139	DAY	16	18.3-19.7	19.4	19.7	10.4	STRONG	5-16	30.1-30.3	30.2	30.1	3951 7404	0504 1906
D 2	0-6	8 8	1044	DAY	20	17.6-19.4	19.2	19.4	9.2	STRONG	5-11	28.6-30.0	29.3	30.0	3948 7359	0500 1902
D 3	0-15	8 8	0952	DAY	23	9.8-21.5	19.1	21.5	9.4	STRONG	9-15	31.0-31.2	31.1	30.9	3945 7354	0501 1902
D 4	0-6	8 8	0836	DAY	23	21.6-21.6	21.6	21.6	8.8	STRONG	10-14	30.5-30.7	30.6	30.4	3939 7343	0500 1900
D 5	0-15	8 8	1515	DAY	37	20.1-22.2	21.5	22.2	8.6	STRONG	14-19	30.9-31.0	30.9	30.9	3932 7332	0459 1859
D 5	18-24	8 8	1515	DAY	37	8.8-13.3	9.6	22.2	8.6	STRONG	14-19	31.0-31.2	31.1	30.9	3932 7332	0459 1859
D 6	0-15	8 8	0322	NIGHT	50	21.1-21.9	21.7	21.9	5.3	STRONG	15-23	30.5-30.7	30.6	30.5	3923 7319	0458 1858
D 6	18-33	8 8	0322	NIGHT	50	6.5-16.0	9.1	21.9	5.3	STRONG	15-23	30.5-31.2	30.9	30.5	3923 7319	0458 1858
D 7	0-15	7 8	2318	NIGHT	76	17.9-22.2	21.2	22.2	5.0	STRONG	11-24	30.5-31.0	30.7	30.5	3914 7303	0501 1902
D 7	18-33	7 8	2318	NIGHT	76	6.5-12.1	7.5	22.2	5.0	STRONG	11-24	30.9-31.4	31.2	30.5	3914 7303	0501 1902
D 8	0-15	7 8	2121	NIGHT	118	22.0-22.5	22.3	22.5	9.4	STRONG	16-32	31.6-32.2	31.9	31.6	3906 7250	0456 1856
D 8	18-33	7 8	2121	NIGHT	118	6.5-18.8	11.6	22.5	9.4	STRONG	16-32	31.6-32.4	31.9	31.6	3906 7250	0456 1856
E 1	0-6	8 8	2205	NIGHT	14	18.7-20.0	19.4	20.0	17.3	STRONG	7-12	30.9-30.9	30.9	30.9	3917 7431	0504 1903
E 2	0-6	8 8	2259	NIGHT	16	19.3-20.6	20.5	20.6	11.7	STRONG	5-12	31.0-31.1	31.1	31.1	3914 7425	0504 1903
E 3	0-6	8 8	2357	NIGHT	18	20.6-21.8	21.5	21.8	11.5	STRONG	4-13	31.0-31.1	31.0	31.1	3911 7420	0503 1901
E 4	0-6	9 8	0700	DAY	24	20.8-21.9	21.6	21.9	10.1	STRONG	6-15	31.3-31.3	31.3	31.3	3905 7409	0504 1900
E 5	0-15	9 8	1013	DAY	36	20.7-22.2	21.8	22.1	8.7	STRONG	14-21	30.9-31.0	31.0	30.9	3859 7359	0502 1859
E 5	18-24	9 8	1013	DAY	36	9.7-15.4	11.7	22.1	8.7	STRONG	14-21	31.2-31.4	31.3	30.9	3859 7359	0502 1859
E 6	0-15	9 8	1206	DAY	43	22.2-22.7	22.6	22.7	7.6	STRONG	16-25	30.6-30.7	30.7	30.7	3854 7348	0502 1858
E 6	18-33	9 8	1206	DAY	43	7.9-18.7	10.9	22.7	7.6	STRONG	16-25	30.4-31.3	30.9	30.7	3854 7348	0502 1858
E 7	0-15	9 8	1405	DAY	64	21.7-22.7	22.1	22.7	5.1	STRONG	16-30	30.8-31.0	30.9	30.8	3845 7333	0501 1856
E 7	18-33	9 8	1405	DAY	64	6.9-16.0	9.5	22.7	5.1	STRONG	16-30	31.2-31.8	31.5	30.8	3845 7333	0501 1856
E 8	0-15	9 8	1611	DAY	134	22.8-23.3	23.1	23.3	9.6	WEAK	15-42	31.6-31.8	31.7	31.5	3836 7318	0501 1855
E 8	18-33	9 8	1611	DAY	134	13.6-21.5	17.3	23.3	9.6	WEAK	15-42	31.9-32.4	32.2	31.5	3836 7318	0501 1855
F 1	0-6	10 8	0454	DAWN	16	17.4-18.2	17.8	18.2	15.9	NONE	-	31.1-30.8	34.3	36.7	3846 7503	0508 1901
F 2	0-6	10 8	0400	NIGHT	21	17.2-18.5	17.8	18.5	14.9	GRADUAL	-	30.5-30.7	30.6	30.4	3843 7458	0509 1901
F 3	0-15	10 8	0307	NIGHT	25	13.5-18.7	16.0	18.7	10.8	GRADUAL	-	30.9-31.0	30.7	30.6	3840 7452	0508 1900
F 4	0-15	10 8	0146	NIGHT	21	10.1-21.7	15.1	21.7	10.0	STRONG	7-14	30.9-31.1	31.0	30.9	3835 7441	0508 1900
F 5	0-15	09 8	2352	NIGHT	34	14.8-22.4	20.7	22.4	8.6	STRONG	9-19	30.9-30.9	30.9	30.8	3829 7430	0506 1900
F 5	18-24	09 8	2352	NIGHT	34	8.8-11.5	9.5	22.4	8.6	STRONG	9-19	31.1-31.3	31.2	30.8	3829 7430	0506 1900
F 6	0-15	9 8	2206	NIGHT	54	19.9-22.0	22.0	23.0	6.2	STRONG	12-21	31.1-31.2	31.1	31.0	3821 7413	0505 1859
F 6	18-33	9 8	2206	NIGHT	54	6.9-13.0	7.8	23.0	6.2	STRONG	12-21	31.2-31.9	31.6	31.0	3821 7413	0505 1859
F 7	0-15	9 8														

TABLE 2. (continued)

32

CRUISE D661C STA.	TOW DEPTH (M)	DATE 1966 D P	TOW START EST	LIGHT COND. DAY NIGHT	WATER DEPTH (M)	**** TEMPERATURE (C) ****				THERMOCLINE DEGREE	DEPTH (M)	**** SALINITY (0/00)		**** SURF.	POSITION		** SUN **		
						RANGE	MEAN	SURF.	BOT.			RANGE	MEAN		LAT.	LONG.	RISE	SET	
G 6	0-15	21	8	1509	DAY	91	19.6-24.6	23.0	24.6	8.8	STRONG	7-30	30.8-31.1	31.0	30.9	3742	7422	0518	1843
G 6	18-33	21	8	1509	DAY	91	7.1-18.4	11.0	24.6	8.8	STRONG	7-30	31.4-31.8	31.6	30.9	3742	7422	0518	1843
H 1	0-3	22	8	0902	DAY	10	21.1-24.0	22.5	24.0	19.1	STRONG	3-5	30.9-30.9	30.9	30.8	3734	7533	0524	1846
H 2	0-15	22	8	1005	DAY	18	14.5-24.5	19.0	24.9	14.5	STRONG	2-7	29.8-30.9	30.4	29.8	3732	7528	0524	1846
H 3	0-6	22	8	1055	DAY	24	23.4-25.5	25.0	25.5	13.4	STRONG	5-12	29.9-35.6	32.3	35.6	3730	7522	0523	1845
H 4	0-15	22	8	0305	NIGHT	26	12.6-24.5	21.6	24.5	9.8	STRONG	10-17	30.5-31.1	30.6	30.6	3727	7510	0523	1845
H 5	0-15	22	8	0139	NIGHT	40	18.8-25.4	23.7	25.4	8.4	STRONG	11-22	30.5-31.0	30.7	30.8	3723	7458	0522	1843
H 5	18-24	22	8	0139	NIGHT	40	9.7-14.8	11.7	25.4	8.4	STRONG	11-22	31.0-31.2	31.1	30.8	3723	7458	0522	1843
H 6	0-15	21	8	2143	NIGHT	86	20.7-25.5	24.1	25.5	9.3	STRONG	8-30	30.7-32.0	30.9	30.7	3718	7440	0520	1844
H 6	18-33	21	8	2143	NIGHT	86	6.9-17.2	10.6	25.5	9.3	STRONG	8-30	31.2-31.9	31.4	30.7	3718	7440	0520	1844
H 7	0-15	21	8	2030	NIGHT	131	22.0-25.5	24.4	25.5	10.5	STRONG	10-30	30.9-31.6	31.2	30.9	3716	7434	0519	1842
H 7	18-33	21	8	2030	NIGHT	131	6.0-18.5	10.3	25.5	10.5	STRONG	10-30	30.6-21.8	21.1	30.9	3716	7434	0519	1842
J 1	0-6	22	8	1623	DAY	15	22.1-25.0	23.7	25.0	19.4	STRONG	3-6	27.3-28.7	27.9	27.3	3655	7558	0522	1843
J 2	0-6	22	8	1529	DAY	10	15.4-22.8	18.6	22.8	14.6	STRONG	0-5	28.3-30.8	29.7	28.3	3655	7552	0522	1846
J 3	0-6	22	8	1455	DAY	16	17.2-22.8	19.8	22.8	14.5	STRONG	0-7	28.8-30.3	29.6	28.8	3654	7545	0525	1846
J 4	0-6	22	8	2157	NIGHT	17	24.2-26.0	25.8	26.0	13.0	STRONG	5-13	30.6-30.7	30.6	30.6	3653	7533	0524	1845
J 5	0-15	22	8	2347	NIGHT	26	15.7-26.1	21.2	26.1	10.3	GRADUAL	-	30.4-31.2	30.7	30.4	3652	7521	0523	1844
J 6	0-15	23	8	0335	NIGHT	35	18.5-25.8	23.6	25.7	8.3	STRONG	6-24	30.3-30.6	30.5	30.4	3650	7502	0523	1841
J 6	18-33	23	8	0335	NIGHT	35	8.2-14.5	9.6	25.7	8.3	STRONG	6-24	30.7-31.4	31.0	30.4	3650	7502	0523	1841
J 7	0-15	23	8	0617	DAY	102	22.9-25.8	25.2	25.8	10.8	STRONG	11-36	30.7-31.5	31.1	30.7	3648	7444	0522	1840
J 7	18-33	23	8	0617	DAY	102	8.2-22.2	14.4	25.8	10.8	STRONG	11-36	31.7-32.3	32.0	30.7	3648	7444	0522	1840
K 1	0-6	24	8	2151	NIGHT	13	23.3-23.4	23.4	23.4	22.8	NONE	-	30.3-30.4	30.3	30.3	3623	7548	0528	1843
K 2	0-6	24	8	2056	NIGHT	18	22.6-23.5	23.3	23.5	17.8	STRONG	6-12	30.9-30.9	30.9	30.9	3623	7542	0528	1843
K 3	0-15	24	8	1954	NIGHT	25	15.0-24.4	22.1	24.4	14.8	STRONG	7-15	30.7-31.1	30.8	30.8	3622	7536	0527	1842
K 4	0-15	23	8	1857	NIGHT	27	14.5-25.5	22.0	25.5	10.5	STRONG	8-18	30.3-31.3	30.9	31.2	3622	7523	0526	1843
K 4	18-24	23	8	1857	NIGHT	27	10.8-12.9	11.7	25.5	10.5	STRONG	8-18	30.8-31.6	31.3	31.2	3622	7523	0526	1843
K 5	0-15	23	8	1718	DAY	30	19.4-26.4	22.9	26.4	9.6	STRONG	7-23	31.2-31.3	31.3	31.1	3622	7511	0525	1842
K 5	18-24	23	8	1718	DAY	30	10.2-15.4	12.3	26.4	9.6	STRONG	7-23	31.4-31.7	31.6	31.1	3622	7511	0525	1842
K 6	0-15	23	8	1329	DAY	41	14.4-26.7	22.8	26.7	7.7	STRONG	7-15	30.2-31.2	30.8	30.9	3621	7458	0524	1841
K 6	18-33	23	8	1329	DAY	41	8.1-13.1	10.2	26.7	7.7	STRONG	7-15	31.0-33.2	32.0	30.9	3621	7458	0524	1841
K 7	0-15	23	8	1155	DAY	668	18.8-26.1	24.0	26.1	10.8	STRONG	10-34	30.4-31.2	30.7	30.5	3621	7446	0523	1840
K 7	18-33	23	8	1155	DAY	668	7.9-16.3	11.2	26.1	10.8	STRONG	10-34	31.7-32.5	32.1	30.5	3621	7446	0523	1840
L 1	0-6	25	8	0255	NIGHT	13	23.8-23.8	23.8	23.8	23.6	NONE	-	31.0-31.1	31.1	31.1	3546	7530	0528	1839
L 2	0-6	25	8	0211	NIGHT	16	23.7-24.3	24.2	24.2	20.2	STRONG	6-11	30.9-31.3	31.1	30.9	3546	7524	0528	1839
L 3	0-15	25	8	0445	NIGHT	33	16.5-24.6	22.2	24.6	16.4	STRONG	7-14	31.3-31.9	31.5	31.5	3546	7517	0527	1838
L 3	18-24	25	8	0445	NIGHT	33	14.7-16.4	15.6	24.6	16.4	STRONG	7-14	32.2-32.7	32.5	31.5	3546	7517	0527	1838
L 4	0-15	25	8	0618	DAY	41	24.5-25.8	25.6	25.8	16.0	STRONG	19-25	31.9-33.6	32.4	31.8	3545	7505	0526	1837
L 4	18-33	25	8	0618	DAY	41	15.6-24.1	18.1	25.8	16.0	STRONG	19-25	31.2-34.5	33.3	31.8	3545	7505	0526	1837
L 5	0-15	25	8	0759	DAY	214	19.1-25.3	24.3	25.3	8.9	WEAK	10-26	31.0-31.5	31.4	31.4	3545	7452	0525	1836
L 5	18-33	25	8	0759	DAY	214	8.1-16.1	11.3	25.3	8.9	WEAK	10-26	31.3-33.8	32.3	31.4	3545	7452	0525	1836
M 1	0-6	25	8	1212	DAY	15	25.4-25.4	25.4	25.4	25.4	NONE	-	31.4-31.6	31.5	31.5	3518	7529	0525	1839
M 2	0-6	25	8	1307	DAY	17	24.9-25.2	25.1	25.0	23.0	WEAK	7-10	32.1-32.6	32.3	32.6	3516	7523	0529	1839
M 3	0-15	25	8	1400	DAY	25	18.9-25.6	22.0	25.6	19.6	STRONG	4-10	32.6-33.5	33.3	32.9	3514	7518	0528	1838
M 4	0-15	25	8	1502	DAY	54	24.4-27.6	26.8	27.6	22.2	WEAK	7-17	34.6-35.1	34.9	34.7	3512	7512	0528	1838
M 4	18-24	25	8	1502	DAY	54	22.3-23.4	22.7	27.6	22.2	WEAK	7-17	34.8-34.9	34.8	34.7	3512	7512	0528	1838
M 5	0-15	25	8	1608	DAY	381	27.2-27.7	27.6	27.6	12.1	STRONG	41-5	34.5-34.9	34.6	34.4	3510	7507	0527	1837
M 5	18-33	25	8	1608	DAY	381	23.1-26.8	25.4	27.6	12.1	STRONG	41-5	34.8-35.2	35.0	34.4	3510	7507	0527	1837
N 1	0-15	25	8	2036	NIGHT	22	27.1-27.2	27.2	27.2	26.6	NONE	-	34.6-34.8	34.7	34.6	3451	7557	0527	1837
N 2	0-15	25	8	2142	NIGHT	23	23.7-26.4	25.6	26.4	23.7	WEAK	6-13	34.4-35.3	34.8	34.4	3456	7555	0527	1837
N 3	0-15	25	8	2242	NIGHT	27	27.5-27.5	27.5	27.5	25.2	GRADUAL	-	34.5-35.1	34.6	34.5	3451	7552	0530	1839
N 3	18-24	25	8	2242	NIGHT	27	25.5-27.0	26.3	27.5	25.2	GRADUAL	-	35.0-35.2	35.1	34.5	3451	7552	0530	1839
N 4	0-15	26	8	0009	NIGHT	48	28.0-28.0	28.0	28.0	21.6	WEAK	17-41	34.1-34.5	34.2	34.1	3442	7548	0531	1838
N 4	18-33	26	8	0009	NIGHT	48	22.9-27.5	25.2	28.0	21.6	WEAK	17-41	34.8-35.3	35.0	34.1	3442	7548	0531	1838
N 5	0-15	26	8	0132	NIGHT	206	28.3-28.8	28.6	28.3	13.3	GRADUAL	-	34.1-35.2	34.7	34.2	3433	7544	0531	1838
N 5	18-33	26	8	0132	NIGHT	206	26.0-28.5	27.4	28.3	13.3	GRADUAL	-	35.1-35.4	35.2	34.2	3433	7544	0531	1838
P 1	0-6	26	8	1150	DAY	12	26.6-26.6	26.6	26.6	25.7	NONE	-	34.3-34.6	34.4	34.3	3438	7540	0535	1842
P 2	0-6	26	8	1049	DAY	15	26.5-26.5	26.5	26.5	25.9	NONE	-	34.4-34.7	34.6	34.4	3434	7537	0534	1841
P 3	0-6	26	8	0922	DAY	13	26.1-26.2	26.2	26.1	25.4	NONE	-	34.7-34.9	34.8	34.7	3425	7636	0535	1841
P 4	0-15	26	8	0753	DAY	28	25.4-27.8	27.5	27.8	22.7	WEAK	10-19	34.3-34.9	34.5	34.3	3417	7523	0535	1840
P 5	0-15	26	8	0552	DAY	187	28.4-28.8	28.6	28.4	16.2	GRADUAL	-	33.9-35.1	34.2	33.8	3404	7613	0534	1839
P 5	18-33	26	8	0552	DAY	187	26.7-28.7	28.1	28.4	16.2	GRADUAL	-	35.1-35.4	35.2	33.8	3404	7613	0534	1839

TABLE 2. (continued)

33

CRUISE D6611 STA.	TOW D-PTM (M)	DATE 1966 D M	TOW START EST	LIGHT COND.	WATER DEPTH (M)	***** TEMPERATURE (C) *****			THERMOCLINE DEGREE	DEPTH (M)	**** SALINITY (0/00)			**** POSITION		** SUN **			
						RANGE	MEAN	SURF.			BOT.	RANGE	MEAN	SURF.	LAT.	LONG.	RISE	SET	
A 1	0- 3	13	9	0927	DAY	19	17.1-17.2	17.2	17.2	17.1	NONE	-	31.4-31.4	31.4	31.4	4117	7048	0521	1757
A 2	0-15	13	9	1033	DAY	30	16.0-17.2	16.7	17.2	13.6	GRADUAL	-	31.4-31.5	31.4	31.4	4112	7047	0521	1757
A 2	18-24	13	9	1033	DAY	30	14.5-15.8	15.3	17.2	13.6	GRADUAL	-	31.5-31.5	31.5	31.4	4112	7047	0521	1757
A 3	0-15	13	9	1143	DAY	40	15.6-16.2	17.3	18.2	11.7	GRADUAL	-	31.2-31.7	31.5	31.5	4107	7048	0521	1757
A 3	18-24	13	9	1143	DAY	40	13.0-14.6	13.8	18.2	11.7	GRADUAL	-	31.3-31.7	31.5	31.5	4107	7048	0521	1757
A 4	0-15	13	9	1315	DAY	49	19.1-19.8	19.6	19.8	9.6	STRONG	19-24	31.9-32.0	32.0	32.0	4057	7044	0521	1756
A 4	18-33	13	9	1315	DAY	49	11.9-18.6	14.2	19.8	9.6	STRONG	19-24	31.5-31.9	31.7	32.0	4057	7044	0521	1756
A 5	0-15	13	9	1716	DAY	60	17.6-17.8	17.7	17.8	8.9	STRONG	20-30	31.6-31.8	31.7	31.8	4047	7042	0521	1756
A 5	18-33	13	9	1716	DAY	60	11.2-17.6	14.6	17.8	8.9	STRONG	20-30	31.4-31.8	31.6	31.8	4047	7042	0521	1756
A 6	0-15	13	9	1930	NIGHT	68	17.4-17.6	17.5	17.4	7.8	STRONG	20-41	31.6-32.1	32.0	32.0	4032	7040	0521	1756
A 6	18-33	13	9	1930	NIGHT	68	11.5-17.8	14.8	17.4	7.8	STRONG	20-41	31.7-32.2	31.9	32.0	4032	7040	0521	1756
A 7	0-12	14	9	0004	NIGHT	112	18.5-18.8	18.8	18.8	8.3	STRONG	19-40	32.5-32.7	32.5	32.6	4017	7037	0521	1754
A 7	18-30	14	9	0004	NIGHT	112	12.3-17.7	15.2	18.8	8.3	STRONG	19-40	32.1-32.4	32.2	32.6	4017	7037	0521	1754
B 1	0- 6	14	9	2204	NIGHT	26	18.2-18.2	18.2	18.2	17.5	NONE	-	31.0-31.0	31.0	31.0	4103	7151	0526	1759
B 2	0-15	14	9	2325	NIGHT	34	18.3-18.6	18.5	18.6	13.2	GRADUAL	-	31.4-31.6	31.5	31.4	4058	7149	0526	1759
B 3	0-15	16	9	2333	NIGHT	50	17.0-19.6	15.1	19.6	10.0	STRONG	20-30	32.4-32.5	32.4	32.3	4054	7147	0528	1755
B 3	18-33	16	9	2333	NIGHT	50	10.7-15.1	12.3	19.6	10.0	STRONG	20-30	31.6-32.4	32.0	32.3	4054	7147	0528	1755
B 4	0-15	14	9	1643	DAY	63	20.9-21.0	20.9	21.0	8.5	STRONG	18-39	32.0-32.2	32.1	32.0	4044	7144	0526	1759
B 4	18-33	14	9	1643	DAY	63	10.4-20.9	15.0	21.0	8.5	STRONG	18-39	31.6-32.4	32.1	32.0	4044	7144	0526	1759
B 5	0-15	14	9	1259	DAY	72	21.7-21.7	21.7	21.7	8.3	STRONG	24-45	32.3-32.4	32.3	32.3	4034	7140	0526	1759
B 5	18-33	14	9	1259	DAY	72	14.9-21.6	19.8	21.7	8.3	STRONG	24-45	32.2-32.4	32.3	32.3	4034	7140	0526	1759
B 6	0-15	14	9	0904	DAY	82	18.9-18.9	18.9	18.9	9.3	WEAK	18-35	31.9-32.1	32.0	31.8	4020	7135	0525	1758
B 6	18-33	14	9	0904	DAY	82	10.5-16.5	15.0	18.9	9.3	WEAK	18-35	32.1-32.3	32.2	31.8	4020	7135	0525	1758
B 7	0-15	14	9	0357	NIGHT	94	15.5-18.7	18.0	18.6	9.9	WEAK	10-35	31.8-32.3	32.2	32.3	4005	7129	0525	1757
B 7	18-33	14	9	0357	NIGHT	94	8.2-14.0	10.5	18.6	9.9	WEAK	10-35	31.7-32.2	31.9	32.3	4005	7129	0525	1757
C 1	0- 9	17	9	0750	DAY	17	19.8-19.9	19.9	19.8	19.9	NONE	-	31.2-31.5	31.4	31.4	4035	7317	0535	1800
C 2	0-15	17	9	0658	DAY	27	19.3-19.5	19.5	19.9	18.7	NONE	-	31.0-31.6	31.2	31.9	4031	7314	0535	1800
C 3	0-15	17	9	0607	DAY	34	19.1-19.6	19.4	19.6	18.5	GRADUAL	-	31.3-31.5	31.4	31.4	4027	7310	0535	1800
C 3	18-24	17	9	0607	DAY	34	18.6-19.0	18.9	19.6	18.5	GRADUAL	-	31.2-31.4	31.3	31.4	4027	7310	0535	1800
C 4	0-15	17	9	1540	DAY	41	20.7-21.2	20.9	21.2	9.0	STRONG	18-27	31.5-31.8	31.7	31.4	4019	7303	0538	1803
C 4	18-33	17	9	1540	DAY	41	9.2-20.4	13.0	21.2	9.0	STRONG	18-27	31.4-31.8	31.6	31.4	4019	7303	0538	1803
C 5	0-15	17	9	1735	DUSK	48	20.3-20.6	20.5	20.6	6.4	STRONG	20-29	32.0-32.6	32.2	32.5	4010	7255	0534	1759
C 5	18-33	17	9	1735	DUSK	48	6.8-20.2	12.3	20.6	6.4	STRONG	20-29	32.0-32.7	32.3	32.5	4010	7255	0534	1759
C 6	0-15	17	9	1933	NIGHT	57	20.2-20.8	20.4	20.8	6.2	STRONG	17-28	32.0-32.1	32.0	32.0	3958	7244	0533	1758
C 6	18-33	17	9	1933	NIGHT	57	7.8-19.4	12.7	20.8	6.2	STRONG	17-28	31.2-31.9	31.6	32.0	3958	7244	0533	1758
C 7	0-15	17	9	2147	NIGHT	74	19.9-20.1	20.0	20.1	7.9	STRONG	15-30	31.7-31.9	31.8	31.5	3946	7233	0532	1756
C 7	18-33	17	9	2147	NIGHT	74	8.5-17.4	12.1	20.1	7.9	STRONG	15-30	31.5-31.9	31.7	31.9	3946	7233	0532	1756
C 8	0-15	17	9	2349	NIGHT	315	20.8-20.8	20.8	20.8	10.9	STRONG	32-40	33.0-33.1	33.1	33.1	3934	7222	0532	1756
C 8	18-33	17	9	2349	NIGHT	315	19.4-20.8	20.5	20.8	10.9	STRONG	32-40	32.5-33.1	33.0	33.1	3934	7222	0532	1756
D 1	0- 6	18	9	1413	DAY	16	21.0-21.1	21.0	21.1	20.7	NONE	-	30.4-30.5	30.5	30.4	3951	7404	0543	1805
D 2	0- 6	18	9	1321	DAY	21	20.1-20.6	20.3	20.6	19.7	NONE	-	30.1-30.4	30.3	30.0	3948	7359	0539	1801
D 3	0-15	18	9	1226	DAY	23	20.0-20.3	20.2	20.3	16.3	WEAK	22-26	30.5-30.9	30.7	30.5	3945	7354	0539	1801
D 4	0-15	18	9	1059	DAY	30	19.5-20.2	19.9	20.2	14.2	STRONG	15-21	30.6-30.8	30.7	30.5	3939	7342	0538	1800
D 4	18-24	18	9	1059	DAY	30	14.6-17.2	15.5	20.2	14.2	STRONG	15-21	30.6-30.6	30.6	30.5	3939	7342	0538	1800
D 5	0-15	18	9	0943	DAY	35	13.9-20.3	18.6	20.3	9.7	STRONG	9-20	30.1-30.8	30.6	30.7	3932	7333	0537	1759
D 5	18-33	18	9	0943	DAY	35	9.7-11.6	10.0	20.3	9.7	STRONG	9-20	30.3-30.9	30.7	30.7	3932	7333	0537	1759
D 6	0-15	18	9	0743	DAY	54	14.4-20.9	19.6	20.9	7.3	STRONG	11-23	30.5-31.7	31.5	31.3	3923	7315	0536	1758
D 6	18-33	18	9	0743	DAY	54	7.5-11.6	6.4	20.9	7.3	STRONG	11-23	30.7-31.2	30.9	31.3	3923	7315	0536	1758
D 7	0-15	18	9	0524	DAWN	71	19.9-20.0	20.0	20.0	5.9	STRONG	18-49	32.0-32.1	32.1	32.0	3914	7303	0539	1801
D 7	18-33	18	9	0524	DAWN	71	11.7-19.8	16.6	20.0	5.9	STRONG	18-49	31.3-32.1	31.8	32.0	3914	7303	0539	1801
D 8	0-15	18	9	0324	NIGHT	118	20.2-21.2	20.8	20.2	10.5	STRONG	24-35	32.1-33.1	32.7	32.1	3906	7250	0534	1756
D 8	18-33	18	9	0324	NIGHT	118	13.7-21.2	18.9	20.2	10.5	STRONG	24-35	31.9-33.0	32.5	32.1	3906	7250	0534	1756

TABLE 2. (continued)

34

CRUISE D6612 STA.	TOW DEPTH (M)	DATE 1966 D P	TOW START FST	LIGHT COND.	WATER DEPTH (M)	TEMPERATURE RANGE (C)	TEMPERATURE MEAN SURF. (C)	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	SALINITY (0/00) RANGE MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	15 10	0302	NIGHT	17	14.3-14.3	14.3	14.2	NONE	-	31.1-31.1	31.1	4117 7048	0555 1703
A 2	0-15	15 10	0209	NIGHT	30	14.0-14.3	14.2	14.3	NONE	-	31.2-31.3	31.2	4112 7047	0554 1703
A 2	18-24	15 10	0209	NIGHT	30	13.2-13.9	13.6	14.3	NONE	-	31.3-31.5	31.4	4112 7047	0554 1703
A 3	0-15	15 10	0109	NIGHT	39	14.1-14.4	14.3	14.4	WEAK	21-26	31.1-31.2	31.2	4107 7046	0554 1703
A 3	18-33	15 10	0109	NIGHT	39	11.0-13.9	12.1	14.4	WEAK	21-26	31.1-31.4	31.2	4107 7046	0554 1703
A 4	0-15	15 10	0615	DAY	49	14.2-14.3	14.2	14.3	STRONG	30-35	31.2-31.3	31.2	4057 7044	0554 1703
A 4	18-33	15 10	0615	DAY	49	11.8-14.2	13.9	14.3	STRONG	30-35	31.2-31.3	31.2	4057 7044	0554 1703
A 5	0-15	15 10	0743	DAY	59	14.2-14.2	14.2	14.2	WEAK	33-44	31.1-31.3	31.2	4047 7042	0554 1703
A 5	18-33	15 10	0743	DAY	59	13.8-14.2	14.2	14.2	WEAK	33-44	31.1-31.4	31.3	4047 7042	0554 1703
A 6	0-15	15 10	0932	DAY	70	13.7-13.9	13.8	13.9	WEAK	28-54	31.1-31.3	31.2	4032 7040	0554 1704
A 6	18-33	15 10	0932	DAY	70	11.8-13.7	12.3	13.9	WEAK	28-54	31.0-31.5	31.2	4032 7040	0554 1704
A 7	0-15	15 10	1126	DAY	112	14.2-14.4	14.2	14.4	WEAK	32-50	31.1-31.5	31.3	4017 7037	0552 1703
A 7	18-33	15 10	1126	DAY	112	13.4-14.3	14.1	14.4	WEAK	32-50	31.3-31.4	31.3	4017 7037	0552 1703
B 1	0-6	14 10	1830	NIGHT	13	14.0-14.2	14.1	14.2	NONE	-	30.7-30.8	30.8	4103 7151	0557 1708
B 2	0-15	14 10	1937	NIGHT	35	13.5-15.1	14.2	15.1	GRADUAL	-	30.9-31.3	31.1	4058 7149	0557 1709
B 2	18-24	14 10	1937	NIGHT	35	12.7-13.4	13.2	15.1	GRADUAL	-	31.3-31.3	31.3	4058 7149	0557 1709
B 3	0-15	14 10	2034	NIGHT	45	15.7-16.1	16.0	15.7	WEAK	25-39	31.3-31.5	31.4	4054 7147	0557 1709
B 3	18-33	14 10	2034	NIGHT	45	12.9-15.9	14.8	15.7	WEAK	25-39	31.4-31.6	31.5	4054 7147	0557 1709
B 4	0-15	14 10	1306	DAY	60	15.4-15.6	15.4	15.6	STRONG	29-42	30.7-31.0	30.9	4044 7144	0557 1709
B 4	18-33	14 10	1306	DAY	60	13.8-15.5	15.3	15.6	STRONG	29-42	30.5-31.6	31.3	4044 7144	0557 1709
B 5	0-15	14 10	1138	DAY	71	14.9-15.2	15.0	15.2	STRONG	26-42	30.7-31.0	30.8	4034 7140	0557 1709
B 5	18-33	14 10	1138	DAY	71	12.9-14.9	14.5	15.2	STRONG	26-42	31.0-31.5	31.2	4034 7140	0557 1709
B 6	0-15	14 10	0750	DAY	81	15.1-15.2	15.1	15.2	STRONG	33-46	31.5-31.7	31.6	4020 7135	0555 1708
B 6	18-33	14 10	0750	DAY	81	14.6-15.2	15.1	15.2	STRONG	33-46	31.4-32.0	31.7	4020 7135	0555 1708
B 7	0-15	14 10	0610	DAY	90	14.7-14.9	14.8	14.7	WEAK	25-47	31.6-31.8	31.7	4005 7129	0555 1709
B 7	18-33	14 10	0610	DAY	90	11.7-15.0	14.2	14.7	WEAK	25-47	31.7-31.9	31.8	4005 7129	0555 1709
C 1	0-15	13 10	0821	DAY	19	14.4-15.4	15.0	15.4	NONE	-	30.6-30.9	30.9	4035 7317	0602 1716
C 2	0-15	13 10	0912	DAY	25	15.7-15.9	15.8	15.9	STRONG	19-23	30.9-31.0	31.0	4035 7317	0602 1716
C 3	0-15	13 10	1007	DAY	31	16.2-16.4	16.3	16.3	STRONG	24-30	31.0-31.2	31.1	4027 7310	0601 1717
C 3	18-24	13 10	1007	DAY	31	16.1-16.2	16.2	16.3	STRONG	24-30	31.0-31.3	31.2	4027 7310	0601 1717
C 4	0-15	13 10	1133	DAY	38	15.7-16.0	15.8	16.0	STRONG	25-32	30.9-31.0	30.9	4019 7303	0604 1720
C 4	18-33	13 10	1133	DAY	38	9.7-15.6	13.6	16.0	STRONG	25-32	31.0-31.6	31.4	4019 7303	0604 1720
C 5	0-15	13 10	1455	DAY	41	15.3-15.9	15.6	15.9	STRONG	31-35	31.2-31.4	31.3	4010 7255	0600 1716
C 5	18-33	13 10	1455	DAY	41	10.6-15.3	14.6	15.9	STRONG	31-35	31.2-31.5	31.4	4010 7255	0600 1716
C 6	0-15	13 10	1714	DUSK	55	15.8-15.9	15.8	15.9	STRONG	25-35	31.4-31.6	31.5	3958 7244	0559 1715
C 6	18-33	13 10	1714	DUSK	55	10.7-15.7	14.6	15.9	STRONG	25-35	31.6-31.6	31.6	3958 7244	0559 1715
C 7	0-15	13 10	2047	NIGHT	73	15.7-15.9	15.8	15.9	WEAK	28-43	31.9-32.0	31.9	3946 7233	0558 1714
C 7	18-33	13 10	2047	NIGHT	73	13.2-15.6	15.1	15.9	WEAK	28-43	31.5-32.1	31.9	3946 7233	0558 1714
C 8	0-15	13 10	2259	NIGHT	492	15.7-15.7	15.7	15.7	STRONG	34-44	32.2-32.3	32.2	3934 7222	0555 1713
C 8	18-33	14 10	2259	NIGHT	492	15.3-15.7	15.6	15.7	STRONG	34-44	32.1-32.3	32.2	3934 7222	0555 1713
D 1	0-6	6 10	0124	NIGHT	18	17.2-17.3	17.3	17.2	NONE	-	30.4-30.5	30.5	3951 7404	0601 1735
D 2	0-6	6 10	0213	NIGHT	23	17.0-17.1	17.0	17.1	NONE	-	30.5-30.7	30.6	3948 7359	0557 1731
D 3	0-15	6 10	0308	NIGHT	24	16.8-17.0	16.9	17.0	NONE	-	30.6-30.8	30.8	3945 7354	0556 1733
D 4	0-15	12 10	2336	NIGHT	27	16.3-16.4	16.4	16.4	NONE	-	30.8-31.2	31.0	3939 7342	0602 1721
D 4	18-24	12 10	2336	NIGHT	27	15.4-16.2	15.9	16.4	NONE	-	31.0-31.3	31.2	3939 7343	0602 1721
D 5	0-15	12 10	2204	NIGHT	36	16.5-16.6	16.6	16.6	WEAK	23-37	31.2-31.3	31.2	3932 7333	0601 1720
D 5	18-24	12 10	2204	NIGHT	36	15.5-16.4	16.1	16.6	WEAK	23-37	31.2-31.4	31.3	3932 7333	0601 1720
D 6	0-15	12 10	1801	NIGHT	54	16.4-16.4	16.4	16.4	STRONG	19-24	31.5-31.8	31.7	3923 7319	0559 1719
D 6	18-33	12 10	1801	NIGHT	54	8.3-15.5	10.8	16.4	STRONG	19-24	31.1-31.7	31.3	3923 7319	0559 1719
D 7	0-15	12 10	1602	DAY	72	16.6-16.7	16.6	16.6	STRONG	20-35	31.5-31.9	31.7	3914 7303	0602 1722
D 7	18-33	12 10	1602	DAY	72	8.5-16.7	14.0	16.6	STRONG	20-35	31.7-31.9	31.9	3914 7303	0602 1722
D 8	0-15	12 10	1213	DAY	110	16.2-16.2	16.2	16.2	WEAK	35-56	31.6-31.8	31.7	3906 7250	0557 1717
D 8	18-33	12 10	1213	DAY	110	16.6-16.1	16.0	16.2	WEAK	35-56	31.9-32.3	32.0	3906 7250	0557 1717
E 1	0-6	5 10	1501	DAY	16	17.7-17.9	17.8	17.7	NONE	-	30.3-30.6	30.4	3917 7431	0558 1735
E 2	0-6	5 10	1415	DAY	17	17.7-17.7	17.7	17.7	NONE	-	30.6-30.6	30.6	3914 7425	0558 1735
E 3	0-6	5 10	1323	DAY	22	17.4-17.4	17.4	17.4	NONE	-	30.6-30.9	30.8	3911 7420	0557 1734
E 4	0-15	11 10	2034	NIGHT	29	16.4-17.2	17.0	17.2	STRONG	21-28	30.8-31.3	31.0	3905 7405	0602 1725
E 5	0-15	11 10	2210	NIGHT	35	16.4-16.6	16.5	16.6	STRONG	22-31	31.2-31.4	31.3	3859 7359	0601 1724
E 5	18-24	11 10	2210	NIGHT	35	15.3-16.4	16.0	16.6	STRONG	22-31	31.4-31.4	31.4	3859 7359	0601 1724
E 6	0-15	12 10	0150	NIGHT	43	15.8-16.2	16.1	16.2	STRONG	19-24	31.2-31.5	31.4	3854 7349	0601 1722
E 6	18-33	12 10	0150	NIGHT	43	7.9-15.4	10.4	16.2	STRONG	19-24	30.9-31.9	31.4	3854 7349	0601 1722
E 7	0-15	12 10	0352	NIGHT	65	17.1-17.2	17.1	17.2	STRONG	26-39	32.1-32.3	32.2	3845 7333	0600 1721
E 7	18-33	12 10	0352	NIGHT	65	11.0-17.1	15.7	17.2	STRONG	26-39	31.7-32.3	32.1	3845 7333	0600 1721
E 8	0-15	12 10	0803	DAY	39	16.6-16.7	16.7	16.6	-	-	32.3-32.5	32.4	3836 7318	0559 1720
E 8	18-33	12 10	0803	DAY	39	14.8-16.7	16.3	16.6	-	-	32.3-32.8	32.5	3836 7318	0559 1720
F 1	0-6	5 10	0722	DAY	16	18.0-18.0	18.0	18.0	NONE	-	29.3-29.6	29.5	3846 7503	0555 1737
F 2	0-6	5 10	0820	DAY	18	18.1-18.1	18.1	18.1	NONE	-	29.8-29.9	29.8	3843 7458	0559 1737
F 3	0-15	5 10	0922	DAY	27	18.4-18.6	18.6	18.6	NONE	-	30.7-31.0	30.9	3840 7452	0558 1736
F 4	0-15	4 10	0227	NIGHT	22	17.7-18.0	17.8	18.0	NONE	-	30.8-30.9	30.8	3835 7441	0558 1737
F 5	0-15	4 10	2151	NIGHT	35	14.9-17.9	17.7	17.9	WEAK	18-24	30.7-30.9	30.8	3829 7430	0556 1737
F 5	18-24	4 10	2151	NIGHT	35	14.9-17.0	16.1	17.9	WEAK	18-24	30.9-30.9	30.9	3829 7430	0556 1737
F 6	0-15	4 10	1953	NIGHT	54	16.4-17.3	17.0	17.3	STRONG	15-23	30.9-31.2	31.1	3821 7413	0555 1736
F 6	18-33	4 10	1953	NIGHT	54	7.5-14.4	9.9	17.3	STRONG	15-23	30.8-31.3	31.0	3821 7413	0555 1736
F 7	0-15	4 10	1552	DAY	91	17.6-18.2	18.1	18.2	WEAK	14-42	31.6-31.9	31.8	3813 7357	0554 1735
F 7	18-33	4 10	1552	DAY	91	10.6-16.8	14.3	18.2	WEAK	14-42	31.4-31.7	31.5	3813 7357	0554 1735
G 1	0-6	4 10	0043	NIGHT	11	19.0-19.0	19.0	19.0	NONE	-	30.7-30.9	30.8	3807 7509	0559 1740
G 2	0-6	3 10	2348	NIGHT	16	19.2-19.2	19.2	19.2	NONE	-	30.7-30.8	30.7	3804 7504	0557 1741
G 3	0-15	3 10	2231	NIGHT	22	18.2-18.3	18.3	18.3	NONE	-	31.0-31.0	31.0	3801 7459	0557 1741
G 4	0-15	4 10	0627	DAY	31	18.1-18.2	18.2	18.2	NONE	-	31.0-31.1	31.0	3756 7448	0557 1738
G 5	0-15	4 10	0816	DAY	51	17.4-18.0	17.8	18.0	STRONG	19-26	30.9-31.0	30.9	3750 7438	0557 1738
G 5	18-33	4 10	0816	DAY	51	10.9-1								

TABLE 2. (continued)

CRUISE 06612 STA.	TJM DEPTH (M)	DATE 1966 D F	TIME START F5T	LIGHT COND. DAY	WATER DEPTH (M)	TEMPERATURE (C)				***** THERMOCLINE DEGREE DEPTH (M)	***** SALINITY (0/00) RANGE MEAN		***** SURF. SURF.	***** POSITION LAT. LONG.		***** SUN RISE SET	
						***** RANGE	***** MEAN	***** SURF.	***** BOT.		***** RANGE	***** MEAN		***** LAT.	***** LONG.	***** RISE	***** SET
G 6	0-15	4 10	1209	DAY	85	19.1-19.4	19.2	19.1	11.7	STRONG 26-40	31.5-31.9	31.7	31.4	3742 7422	0556 1737		
G 6	18-33	4 10	1209	DAY	85	15.9-19.5	18.7	19.1	11.7	STRONG 26-40	31.8-32.3	32.1	31.4	3742 7422	0556 1737		
H 1	0-6	3 10	1656	DAY	11	19.4-19.4	19.4	19.4	19.4	NONE -	30.6-30.7	30.6	30.5	3734 7533	0559 1743		
H 2	0-6	3 10	1752	NIGHT	14	19.8-19.8	19.8	19.8	19.8	NONE -	31.0-31.1	31.0	31.0	3732 7528	0559 1743		
H 3	0-15	3 10	1853	NIGHT	25	19.5-19.6	19.5	19.5	19.7	NONE -	31.0-31.2	31.1	31.1	3730 7522	0559 1742		
H 4	0-15	3 10	1114	DAY	28	19.3-19.4	19.3	19.3	19.4	NONE -	30.0-30.9	30.7	30.9	3727 7510	0558 1742		
H 5	0-15	3 10	0950	DAY	35	19.6-19.7	19.7	19.7	14.0	GRADUAL -	30.8-30.9	30.9	30.8	3723 7458	0557 1741		
H 5	19-33	3 10	0950	DAY	39	16.1-18.6	17.2	15.7	14.0	GRADUAL -	30.9-31.1	31.0	30.8	3723 7458	0557 1741		
H 6	0-15	3 10	0611	DAY	77	19.3-19.3	19.3	19.3	8.7	STRONG 26-44	31.9-32.7	32.1	32.7	3718 7440	0556 1740		
H 6	18-33	3 10	0611	DAY	77	13.1-15.4	18.1	15.3	8.7	STRONG 26-44	31.7-31.9	31.9	32.7	3718 7440	0556 1740		
H 7	0-15	3 10	0519	NIGHT	116	19.3-19.3	19.3	19.3	10.4	STRONG 16-28	32.1-32.4	32.2	32.3	3716 7434	0555 1739		
H 7	19-33	3 10	0519	NIGHT	116	8.5-18.0	12.5	19.3	10.4	STRONG 16-28	31.1-32.8	32.0	32.3	3716 7434	0555 1739		
J 1	0-6	1 10	1448	DAY	14	21.4-21.6	21.5	21.4	21.6	NONE -	28.8-28.9	28.9	28.9	3655 7556	0555 1744		
J 2	0-6	1 10	1351	DAY	11	21.6-21.6	21.6	21.6	21.2	NONE -	27.8-29.1	28.5	27.8	3655 7552	0558 1747		
J 3	0-6	1 10	1257	DAY	17	21.9-22.0	21.9	22.0	21.8	NONE -	28.4-28.8	28.5	28.4	3654 7545	0558 1747		
J 4	0-6	2 10	1549	DAY	20	20.4-20.4	20.4	20.4	20.3	NONE -	30.3-31.2	30.9	30.3	3653 7532	0557 1745		
J 5	0-15	2 10	1723	DUSK	28	20.0-20.1	20.1	20.1	15.7	WEAK 17-22	31.4-21.6	31.5	31.5	3652 7521	0557 1744		
J 6	0-15	2 10	2125	NIGHT	35	19.1-19.5	19.4	19.5	10.1	WEAK 16-28	31.8-31.9	31.8	31.9	3650 7502	0556 1743		
J 6	18-24	2 10	2125	NIGHT	35	14.5-18.0	16.6	19.5	10.1	WEAK 16-28	31.5-31.6	31.5	31.9	3650 7502	0556 1743		
J 7	0-15	2 10	2355	NIGHT	85	20.1-20.1	20.1	20.1	9.5	STRONG 24-40	32.4-32.6	32.5	32.5	3648 7444	0555 1742		
J 7	18-33	2 10	2355	NIGHT	85	12.1-20.1	18.0	20.1	9.5	STRONG 24-40	32.0-32.9	32.5	32.5	3648 7444	0555 1742		
K 1	0-15	1 10	0730	DAY	17	19.7-21.4	20.8	21.4	19.7	NONE -	30.4-30.9	30.6	30.3	3623 7546	0558 1747		
K 2	0-15	1 10	0825	DAY	22	21.4-22.0	21.9	22.0	18.9	WEAK 15-21	30.0-30.7	30.2	29.9	3623 7542	0558 1747		
K 3	0-15	1 10	0924	DAY	25	19.9-21.9	21.5	21.9	16.3	WEAK 12-22	29.5-30.9	30.3	29.8	3622 7536	0557 1746		
K 4	0-15	1 10	0153	NIGHT	25	20.5-21.5	21.4	21.5	14.2	WEAK 15-22	30.4-30.8	30.6	30.4	3622 7523	0557 1746		
K 5	0-15	1 10	0010	NIGHT	33	18.8-21.6	21.1	21.6	12.3	WEAK 11-22	30.6-30.8	30.7	30.7	3622 7511	0556 1745		
K 5	18-24	1 10	0010	NIGHT	33	12.5-15.9	13.9	21.6	12.3	WEAK 11-22	30.8-31.0	30.9	30.7	3622 7511	0556 1745		
K 6	0-15	30 9	2016	NIGHT	45	20.6-24.4	21.6	21.3	11.7	STRONG 16-28	31.3-34.8	32.7	31.3	3621 7458	0554 1746		
K 6	18-33	30 9	2016	NIGHT	49	10.8-22.4	15.0	21.3	11.7	STRONG 16-28	31.5-33.9	32.3	31.3	3621 7458	0554 1746		
K 7	0-15	30 9	1850	NIGHT	823	21.6-24.6	23.0	21.6	10.9	STRONG 23-47	31.5-34.4	33.3	31.5	3621 7446	0553 1745		
K 7	18-33	30 9	1850	NIGHT	823	18.3-25.0	21.7	21.6	10.9	STRONG 23-47	33.1-34.8	34.1	31.5	3621 7446	0553 1745		
L 1	0-6	30 9	0406	NIGHT	13	22.4-22.7	22.6	22.7	21.1	GRADUAL -	27.8-30.2	29.2	27.7	3546 7530	0556 1748		
L 2	0-6	30 9	0305	NIGHT	22	22.6-22.7	22.7	22.7	19.7	GRADUAL -	29.3-29.9	29.6	29.3	3546 7524	0556 1748		
L 3	0-15	30 9	0157	NIGHT	34	21.7-22.5	22.3	22.5	16.1	-	28.7-31.3	30.2	28.6	3546 7517	0555 1747		
L 3	18-24	30 9	0157	NIGHT	34	20.3-21.6	21.1	22.5	16.1	-	31.8-22.8	32.3	28.6	3546 7517	0555 1747		
L 4	0-15	30 9	1050	DAY	45	23.1-25.5	24.2	23.1	10.5	STRONG 25-30	31.7-34.7	33.1	31.6	3545 7505	0554 1746		
L 4	18-33	30 9	1050	DAY	45	10.5-25.4	19.5	23.1	10.5	STRONG 25-30	33.6-35.9	34.9	31.6	3545 7505	0554 1746		
L 5	0-15	30 9	1231	DAY	376	23.2-24.3	23.9	23.2	12.9	-	32.1-33.6	33.2	32.0	3545 7452	0553 1745		
L 5	18-33	30 9	1231	DAY	376	19.2-25.2	23.8	23.2	12.9	-	33.6-34.8	34.3	32.0	3545 7452	0553 1745		
M 1	0-6	28 9	1608	DAY	14	23.8-23.8	23.8	23.8	23.8	NONE -	31.0-31.0	31.0		3518 7526	0554 1751		
M 2	0-6	28 9	1928	NIGHT	19	23.2-23.3	23.3	23.3	25.5	WEAK 12-17	31.0-31.1	31.0	31.0	3516 7523	0554 1751		
M 3	0-15	28 9	2036	NIGHT	26	22.3-24.3	22.7	22.3	24.6	WEAK 10-16	31.0-33.4	31.5	31.0	3514 7518	0553 1750		
M 4	0-15	28 9	2334	NIGHT	58	23.3-25.2	24.4	23.3	22.6	GRADUAL -	31.4-35.1	33.2	31.4	3512 7512	0552 1750		
M 5	0-15	29 9	0031	NIGHT	356	23.5-25.6	24.6	22.5	13.9	WEAK 2-8	31.6-35.3	33.7	31.6	3510 7507	0553 1747		
M 5	18-33	29 9	0031	NIGHT	356	25.4-25.7	25.6	23.5	13.9	WEAK 2-8	35.1-35.4	35.3	31.6	3510 7507	0553 1747		
N 1	0-6	29 9	0925	DAY	22	25.0-25.0	25.0	25.0	24.9	NONE -	34.3-34.4	34.3	34.3	3501 7557	0553 1747		
N 2	0-15	29 9	0722	DAY	25	25.0-25.5	25.1	25.0	23.9	WEAK 19-22	34.6-35.0	34.8	34.6	3456 7555	0552 1748		
N 3	0-15	29 9	0535	DAWN	29	25.5-25.6	25.5	25.5	23.0	WEAK 24-28	35.2-35.4	35.3	35.1	3451 7552	0556 1751		
N 4	0-15	29 9	1508	DAY	45	25.4-25.5	25.4	25.5	20.3	WEAK 32-41	34.8-34.9	34.9	34.9	3442 7548	0556 1751		
N 4	18-33	29 9	1508	DAY	45	24.8-25.4	25.3	25.5	20.3	WEAK 32-41	34.8-34.9	34.8	34.9	3442 7548	0556 1751		
N 5	0-15	29 9	1716	DAY	172	26.5-26.6	26.6	26.6	20.1	GRADUAL -	35.1-35.3	35.2	35.1	3433 7544	0552 1751		
N 5	18-33	29 9	1716	DAY	172	24.0-26.2	25.4	26.6	20.1	GRADUAL -	35.0-35.2	35.1	35.1	3433 7544	0552 1751		
P 1	0-6	20 10	0734	DAY	16	21.9-21.9	21.9	21.9	21.9	NONE -	34.2-34.3	34.3	34.3	3438 7640	0616 1727		
P 2	0-6	20 10	0831	DAY	15	21.5-22.1	22.0	21.9	21.9	NONE -	34.1-34.3	34.2	34.2	3434 7537	0615 1726		
P 3	0-6	20 10	1000	DAY	14	22.1-22.1	22.1	22.1	22.0	NONE -	34.2-34.3	34.3	34.3	3425 7536	0615 1726		
P 4	0-15	20 10	1133	DAY	31	23.0-23.0	23.0	23.0	22.8	NONE -	34.8-34.9	34.8	34.8	3417 7623	0615 1726		
P 4	18-24	20 10	1133	DAY	31	22.9-22.9	22.9	23.0	22.8	NONE -	34.8-34.9	34.9	34.8	3417 7523	0615 1726		
P 5	0-15	20 10	1338	DAY	92	25.4-25.4	25.4	25.4	20.8	GRADUAL -	34.9-35.1	35.0	35.0	3404 7613	0614 1726		
P 5	18-33	20 10	1338	DAY	92	24.5-25.4	25.3	25.4	20.8	GRADUAL -	34.9-35.0	34.9	35.0	3404 7613	0614 1726		

TABLE 2. (continued)

CRUISE D6614 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	**** RANGE	TEMPERATURE (C) MEAN SURF.	**** BOT.	THERMOCLINE DEGREE DEPTH (M)	**** MEAN	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-3	4 12	1956	NIGHT	17	7.4-7.5	7.5	7.5	7.6	NONE	32.9-32.9	32.9	4117 7048	0652 1614
A 2	0-15	4 12	1857	NIGHT	31	9.1-9.3	9.2	9.1	9.3	NONE	32.7-32.9	32.7	4112 7047	0652 1614
A 3	0-15	4 12	1750	NIGHT	38	9.3-9.5	9.4	9.5	9.4	NONE	32.7-32.9	32.8	4107 7046	0651 1615
A 3	18-24	4 12	1750	NIGHT	38	9.3-9.4	9.3	9.5	9.4	NONE	32.9-33.0	32.9	4107 7046	0651 1615
A 4	0-15	4 12	1618	NIGHT	52	9.8-9.9	9.8	9.8	9.9	NONE	32.8-33.1	33.0	4057 7044	0651 1615
A 4	18-24	4 12	1618	NIGHT	52	9.9-9.9	9.9	9.8	9.9	NONE	32.9-32.9	32.9	4057 7044	0651 1615
A 5	0-15	4 12	1449	DAY	56	9.7-9.7	9.7	9.7	9.7	NONE	32.8-32.9	32.8	4047 7042	0650 1616
A 5	18-33	4 12	1449	DAY	56	9.7-9.7	9.7	9.7	9.7	NONE	32.8-33.0	32.9	4047 7042	0650 1616
A 6	0-15	4 12	1255	DAY	70	9.3-9.4	9.3	9.3	10.0	NONE	32.8-32.9	32.8	4032 7040	0650 1616
A 6	18-33	4 12	1255	DAY	70	9.3-9.4	9.3	9.3	10.0	NONE	32.9-34.0	33.2	4032 7040	0650 1616
A 7	0-15	4 12	1044	DAY	111	9.4-9.4	9.4	9.4	11.6	-	33.0-33.2	33.1	4017 7037	0648 1616
A 7	18-33	4 12	1044	DAY	111	9.4-9.4	9.4	9.4	11.6	-	33.2-33.3	33.2	4017 7037	0648 1616
B 1	0-6	3 12	1937	NIGHT	20	8.3-8.4	8.4	8.3	8.9	NONE	31.8-31.9	31.9	4103 7151	0654 1619
B 2	0-15	3 12	2056	NIGHT	37	9.6-9.7	9.6	9.6	9.6	NONE	32.8-32.9	32.9	4058 7149	0654 1619
B 2	18-24	3 12	2056	NIGHT	37	9.6-9.7	9.7	9.6	9.6	KNONE	32.8-32.9	32.9	4058 7149	0654 1619
B 3	0-15	3 12	2210	NIGHT	48	10.0-10.0	10.0	10.0	10.0	NONE	33.0-33.0	33.0	4054 7147	0654 1619
B 3	18-33	3 12	2210	NIGHT	48	9.9-10.1	10.0	10.0	10.0	NONE	33.0-33.1	33.0	4054 7147	0654 1619
B 4	0-15	3 12	2351	NIGHT	67	10.1-10.1	10.1	10.1	9.1	NONE	33.0-33.4	33.3	4044 7144	0653 1620
B 4	18-33	3 12	2351	NIGHT	67	10.1-10.1	10.1	10.1	9.1	NONE	33.1-33.4	33.2	4044 7144	0653 1620
B 5	0-15	4 12	0113	NIGHT	73	9.5-9.5	9.5	9.5	8.4	WEAK 57-63	33.1-33.3	33.2	4034 7140	0654 1620
B 5	18-33	4 12	0113	NIGHT	73	9.5-9.5	9.5	9.5	8.4	WEAK 57-63	32.9-33.5	33.2	4034 7140	0654 1620
B 6	0-15	4 12	0310	NIGHT	84	9.8-10.1	10.0	9.8	9.8	NONE	32.9-33.2	33.1	4020 7135	0652 1620
B 6	18-33	4 12	0310	NIGHT	84	8.8-10.0	9.1	9.8	9.8	NONE	33.0-33.1	33.0	4020 7135	0652 1620
B 7	0-15	4 12	0517	NIGHT	93	9.7-9.8	9.8	9.8	10.4	-	33.4-33.4	33.4	4005 7129	0651 1621
B 7	18-33	4 12	0517	NIGHT	93	9.6-9.7	9.6	9.8	10.4	-	33.1-33.6	33.4	4005 7129	0651 1621
C 1	0-6	3 12	0751	DAY	22	8.9-8.9	8.9	8.9	9.0	NONE	32.8-33.0	32.9	4035 7317	0659 1626
C 2	0-6	3 12	0645	DAWN	28	9.8-9.9	9.9	9.8	9.9	NONE	32.9-33.0	33.0	4031 7314	0659 1626
C 3	0-15	3 12	0537	NIGHT	34	10.1-10.3	10.1	10.3	10.1	NONE	33.0-33.1	33.1	4027 7310	0658 1627
C 3	18-24	3 12	1047	DAY	34	10.2-10.3	10.2	10.3	10.1	NONE	33.1-33.2	33.1	4027 7310	0658 1627
C 4	0-15	3 12	0412	NIGHT	41	10.9-11.2	11.0	10.9	10.9	NONE	32.8-33.1	32.9	4019 7307	0701 1630
C 4	18-33	3 12	0412	NIGHT	41	10.9-11.1	11.1	10.9	10.9	NONE	32.9-23.3	33.1	4019 7307	0701 1630
C 5	0-15	2 12	2302	NIGHT	48	11.2-11.3	11.3	11.3	11.4	NONE	33.0-33.1	33.1	4010 7255	0658 1626
C 5	18-33	2 12	2302	NIGHT	48	11.2-11.4	11.3	11.3	11.4	NONE	33.0-33.1	33.1	4010 7255	0658 1626
C 6	0-15	2 12	2022	NIGHT	57	10.9-10.9	10.9	10.9	9.6	WEAK 43-52	33.0-33.3	33.1	3958 7244	0654 1626
C 6	18-33	2 12	2022	NIGHT	57	10.9-10.9	10.9	10.9	9.6	WEAK 43-52	32.9-33.2	33.1	3958 7244	0654 1626
C 7	0-15	2 12	1727	NIGHT	73	10.5-10.5	10.5	10.5	8.6	WEAK 40-46	33.1-33.2	33.2	3946 7232	0657 1626
C 7	18-33	2 12	1727	NIGHT	73	10.4-11.2	10.6	10.5	8.6	WEAK 40-46	33.1-33.4	33.2	3946 7232	0657 1626
C 8	0-15	2 12	1505	DAY	364	10.6-12.1	10.9	10.6	11.0	STRONG 13-25	32.9-33.4	33.1	3934 7222	0657 1626
C 8	18-33	2 12	1505	DAY	364	13.5-16.8	16.1	10.6	11.0	STRONG 13-25	34.1-35.2	34.7	3934 7222	0657 1626
D 1	0-6	1 12	1854	NIGHT	14	9.4-9.4	9.4	9.4	9.3	NONE	32.1-32.3	32.2	3951 7404	0702 1636
D 2	0-6	1 12	1807	NIGHT	21	8.9-9.0	8.9	9.0	10.0	NONE	31.5-31.7	31.6	3948 7359	0657 1632
D 3	0-15	1 12	1714	NIGHT	27	10.0-10.0	10.0	10.0	10.6	NONE	32.1-32.7	32.4	3945 7354	0657 1632
D 4	0-15	2 12	0102	NIGHT	25	10.3-10.5	10.4	10.3	10.2	NONE	32.7-33.0	32.9	3939 7343	0657 1631
D 5	0-15	2 12	0244	NIGHT	36	11.2-11.7	11.4	11.3	11.3	NONE	32.8-33.3	33.1	3932 7333	0656 1630
D 5	18-24	2 12	0244	NIGHT	36	11.4-11.5	11.5	11.3	11.3	NONE	33.2-33.3	33.3	3932 7333	0656 1630
D 6	0-15	2 12	0652	DAWN	52	11.3-11.4	11.4	11.4	11.6	NONE	32.8-33.2	33.0	3923 7319	0654 1630
D 6	18-33	2 12	0652	DAWN	52	11.3-11.5	11.4	11.4	11.6	NONE	32.8-33.3	33.0	3923 7319	0654 1630
D 7	0-15	2 12	0920	DAY	76	11.0-11.0	11.0	11.0	9.4	STRONG 51-56	32.9-33.2	33.1	3914 7303	0657 1633
D 7	18-33	2 12	0920	DAY	76	11.0-11.0	11.0	11.0	9.4	STRONG 51-56	33.0-33.2	33.1	3914 7303	0657 1633
D 8	0-15	2 12	1117	DAY	110	10.5-10.5	10.5	10.5	11.0	-	33.1-33.4	33.2	3906 7250	0657 1629
D 8	18-33	2 12	1117	DAY	110	10.5-10.7	10.5	10.5	11.0	-	33.3-33.3	33.3	3906 7250	0657 1629
F 1	0-6	9 11	2248	NIGHT	11	12.5-12.6	12.6	12.5	12.8	NONE	31.1-31.3	31.2	3917 7431	0634 1649
F 2	0-6	9 11	2340	NIGHT	16	12.8-13.0	12.9	13.0	12.8	NONE	32.1-32.1	32.1	3914 7425	0634 1649
F 3	0-6	10 11	0040	NIGHT	19	13.3-13.4	13.3	13.4	12.8	NONE	32.2-32.3	32.2	3911 7420	0634 1647
F 4	0-15	10 11	0204	NIGHT	24	12.8-13.2	13.1	13.2	12.7	NONE	32.7-32.8	32.8	3905 7409	0634 1648
F 5	0-15	10 11	0538	NIGHT	39	12.9-13.1	13.0	13.1	12.5	NONE	31.1-33.1	32.4	3859 7355	0633 1647
F 5	18-33	10 11	0538	NIGHT	39	12.9-12.8	12.6	13.1	12.5	NONE	33.0-33.3	33.1	3859 7355	0633 1647
F 6	0-15	10 11	0722	DAY	41	13.0-13.2	13.1	13.0	12.3	NONE	32.9-33.1	32.9	3854 7349	0632 1646
F 6	18-33	10 11	0722	DAY	41	12.6-13.2	13.0	13.0	12.3	NONE	33.1-33.3	33.2	3854 7349	0632 1646
F 7	0-15	10 11	1200	DAY	65	13.6-13.6	13.6	13.6	9.2	STRONG 44-52	33.2-33.4	33.3	3845 7333	0630 1645
F 7	18-33	10 11	1200	DAY	65	13.6-13.8	13.7	13.6	9.2	STRONG 44-52	33.0-33.3	33.2	3845 7333	0630 1645
F 8	0-15	19 11	0201	NIGHT	103	11.5-11.5	11.5	11.5	10.9	-	34.1-34.2	34.1	3836 7318	0639 1637
F 8	18-33	19 11	0201	NIGHT	103	11.4-11.5	11.5	11.5	10.9	-	34.0-34.3	34.1	3836 7318	0639 1637
G 1	0-6	11 11	0602	NIGHT	18	13.9-13.5	13.5	13.5	13.5	NONE	31.4-31.8	31.6	3846 7503	0637 1650
G 2	0-6	11 11	0515	NIGHT	20	13.6-14.3	14.0	13.6	13.9	NONE	31.8-31.9	31.8	3843 7508	0637 1650
G 3	0-15	11 11	0432	NIGHT	26	14.5-14.7	14.6	14.7	14.2	NONE	32.5-32.8	32.6	3840 7552	0636 1650
G 4	0-15	11 11	0312	NIGHT	22	14.2-14.3	14.2	14.3	14.2	NONE	32.8-33.0	32.9	3835 7541	0636 1650
G 5	0-15	11 11	0126	NIGHT	37	13.8-13.9	13.9	13.9	12.8	NONE	32.0-33.2	33.1	3829 7430	0635 1649
G 5	18-24	11 11	0126	NIGHT	37	13.6-13.8	13.8	13.9	12.8	NONE	33.0-33.1	33.1	3829 7430	0635 1649
G 6	0-15	10 11	2303	NIGHT	51	13.1-13.6	13.4	13.6	12.2	WEAK 33-39	33.2-33.3	33.2	3821 7412	0633 1649
G 6	18-33	10 11	2303	NIGHT	51	13.4-13.7	13.6	13.6	12.2	WEAK 33-39	33.3-33.9	33.6	3821 7412	0633 1649
G 7	0-15	18 11	2203	NIGHT	69	12.8-12.9	12.8	12.8	12.1	WEAK 28-40	34.1-34.6	34.2	3813 7357	0640 1642
G 7	18-33	18 11	2203	NIGHT	69	11.6-13.1	12.7	12.8	12.1	WEAK 28-40	34.6-35.3	34.8	3813 7357	0640 1642
H 1	0-6	11 11	1604	DAY	10	14.5-15.0	14.7	15.0	14.3	NONE	32.4-32.4	32.4	3807 7509	0637 1653
H 2	0-6	11 11	1657	NIGHT	17	14.4-15.0	14.6	15.0	14.0	NONE	32.6-32.6	32.6	3804 7504	0636 1652
H 3	0-15	11 11	1753	NIGHT	16	15.2-15.7	15.5	15.6	15.5	NONE	32.8-32.9	32.8	3801 7509	0636 1652
H 4	0-15	11 11	1919	NIGHT	25	15.0-15.5	15.4	15.4	13.0	GRADUAL	32.9-33.1	33.1	3756 7448	0635 1651
H 5	0-15	11 11	2234	NIGHT	49	14.3-14.8	14.6	14.8	10.5	STRONG 26-28	33.3-33.5	33.4	3750 7438	0635 1651
H 5	18-33	11 11	2234	NIGHT	49	14.0-14.3	14.2	14.8	10.5	STRONG 26-28	33.5-33.8	33.6	3750 7438	0635 1651
H 6	0-15	12 11	0050	NIGHT	88	14.7-15.4	14.9	14.7	10.0	STRONG 40-51	33.9-34.7	34.2	37	

TABLE 2. (continued)

37

CRUISE D6614 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START FST	LIGHT CONC.	WATER DEPTH (M)	***** TEMPERATURE (C) *****				THERMOCLINE DEPTH (M)	**** SALINITY (0/00) ****			POSITION LAT. LONG.	** SUN RISE SET
						RANGE	MEAN	SURF.	BOT.		DEGREE	RANGE	MEAN		
H 1	0-6	12 11	1312	DAY	10	14.7-14.9	14.8	14.9	14.7	NONE	32.0-32.2	32.1	32.0	3734 7533	0638 1654
H 2	0-6	12 11	1141	DAY	20	15.1-15.2	15.1	15.2	15.2	NONE	32.3-32.6	32.5	32.3	3732 7528	0638 1654
H 3	0-6	12 11	1041	DAY	25	15.8-15.9	15.9	15.8	15.3	NONE	32.6-32.8	32.7	32.5	3730 7522	0637 1653
H 4	0-15	12 11	0918	DAY	29	14.9-15.6	15.2	15.6	14.7	GRADUAL	32.8-33.4	33.1	32.8	3727 7510	0637 1653
H 5	0-15	12 11	0754	DAY	42	14.4-15.3	14.8	15.3	14.0	GRADUAL	33.3-33.6	33.5	33.3	3723 7458	0638 1652
H 5	18-33	12 11	0754	DAY	42	14.0-14.3	14.2	15.3	14.0	GRADUAL	33.8-33.9	33.9	33.3	3723 7458	0638 1652
H 6	0-15	12 11	0609	DAWN	83	14.4-15.6	14.7	14.5	10.0	STRONG 56-70	33.6-34.9	33.9	33.8	3718 7440	0635 1651
H 6	18-33	12 11	0609	DAWN	83	16.0-16.7	16.5	14.5	10.0	STRONG 56-70	35.1-35.3	35.3	33.8	3718 7440	0635 1651
H 7	0-15	12 11	0503	NIGHT	134	14.5-15.1	14.7	14.5	11.2	STRONG 43-52	33.8-34.6	34.0	33.7	3716 7434	0634 1650
H 7	18-33	12 11	0503	NIGHT	134	15.3-16.3	15.9	14.5	11.2	STRONG 43-52	34.7-35.2	35.0	33.7	3716 7434	0634 1650
J 1	0-6	12 11	1327	NIGHT	14	14.8-15.0	14.9	14.8	15.2	NONE	28.6-28.7	28.7	28.6	3655 7558	0635 1653
J 2	0-6	13 11	0036	NIGHT	10	15.1-15.3	15.2	15.1	15.2	NONE	31.7-32.0	31.8	32.0	3655 7552	0639 1655
J 3	0-6	13 11	0202	NIGHT	16	15.0-15.2	15.1	15.2	15.3	NONE	32.3-32.4	32.4	32.2	3654 7545	0635 1655
J 4	7-15	14 11	1348	DAY	22	14.9-15.0	14.9	14.9	15.0	NONE	33.2-33.3	33.2	33.2	3653 7533	0639 1654
J 5	0-15	14 11	1727	NIGHT	26	14.6-14.7	14.6	14.6	14.4	NONE	33.7-33.9	33.8	33.8	3652 7523	0638 1653
J 6	0-15	14 11	1935	NIGHT	35	14.2-14.4	14.3	14.3	14.3	NONE	34.4-34.5	34.4	34.3	3650 7502	0637 1652
J 6	18-24	14 11	1935	NIGHT	35	14.5-14.6	14.5	14.3	14.3	NONE	34.4-34.5	34.4	34.3	3650 7502	0637 1652
J 7	0-15	14 11	2329	NIGHT	81	13.8-13.9	13.8	13.8	11.9	WEAK 37-49	34.2-34.5	34.4	34.5	3648 7444	0637 1651
J 7	18-33	14 11	2329	NIGHT	81	14.0-15.0	14.3	13.8	11.9	WEAK 37-49	34.2-35.2	34.5	34.5	3648 7444	0636 1651
K 1	0-6	18 11	0842	DAY	15	14.5-14.5	14.5	14.5	14.6	NONE	33.2-33.3	33.2	33.1	3623 7548	0642 1653
K 2	0-15	18 11	0929	DAY	20	14.1-14.7	14.4	14.2	14.7	NONE	32.3-33.8	33.2	32.3	3623 7542	0643 1653
K 3	0-15	18 11	1022	DAY	24	14.7-14.7	14.7	14.7	14.9	NONE	33.6-34.0	33.8	33.7	3622 7534	0642 1652
K 4	0-15	18 11	0325	NIGHT	33	14.5-14.7	14.6	14.7	14.5	NONE	34.0-34.2	34.1	34.1	3622 7523	0642 1652
K 4	18-24	18 11	0325	NIGHT	33	14.4-14.6	14.5	14.7	14.5	NONE	34.1-34.1	34.1	34.1	3622 7523	0642 1652
K 5	0-15	18 11	0155	NIGHT	37	14.5-14.8	14.7	14.8	13.9	NONE	34.2-34.4	34.3	34.3	3622 7511	0641 1651
K 5	18-24	18 11	0155	NIGHT	37	14.4-14.5	14.4	14.8	13.9	NONE	34.2-34.2	34.2	34.3	3622 7511	0641 1651
K 6	0-15	17 11	2236	NIGHT	47	13.9-14.2	14.0	14.2	14.0	NONE	34.6-34.9	34.9	34.6	3621 7458	0639 1650
K 6	18-33	17 11	2236	NIGHT	47	13.9-14.1	14.0	14.2	14.0	NONE	34.6-34.9	34.8	34.6	3621 7458	0639 1650
K 7	0-15	17 11	2127	NIGHT	397	13.8-14.1	14.0	14.1	11.6	NONE	34.7-34.5	34.8	34.7	3621 7446	0638 1649
K 7	18-33	17 11	2127	NIGHT	397	13.8-13.7	12.7	14.1	11.6	NONE	34.8-35.0	34.9	34.7	3621 7446	0638 1649
L 1	0-6	17 11	0828	DAY	21	14.2-14.4	14.3	14.2	15.1	NONE	31.0-31.6	31.2	30.9	3546 7530	0640 1654
L 2	0-6	17 11	0754	DAY	21	15.0-15.2	15.1	15.2	15.0	NONE	33.3-33.5	33.4	33.2	3546 7524	0640 1654
L 3	0-15	17 11	0717	DAY	32	14.9-15.1	15.0	15.1	15.0	NONE	33.6-33.8	33.7	33.7	3546 7517	0639 1653
L 3	18-24	17 11	0707	DAY	32	14.8-15.0	14.9	15.1	15.0	NONE	33.3-33.8	33.5	33.7	3546 7517	0639 1653
L 4	0-15	17 11	1357	DAY	41	14.9-15.3	15.1	15.3	14.6	NONE	34.2-34.6	34.4	34.3	3545 7505	0637 1652
L 4	18-33	17 11	1357	DAY	41	14.6-14.8	14.7	15.3	14.6	NONE	34.6-34.7	34.6	34.3	3545 7505	0637 1652
L 5	0-15	17 11	1545	DAY	355	14.9-15.1	14.9	15.0	11.7	GRADUAL	34.5-35.3	34.8	34.7	3545 7452	0636 1651
L 5	18-33	17 11	1545	DAY	355	15.3-15.5	15.5	15.0	11.7	GRADUAL	35.4-35.6	35.5	34.7	3545 7452	0636 1651
M 1	0-6	16 11	1530	DAY	26	14.8-14.9	14.8	14.9	14.7	NONE	33.4-33.5	33.5	33.4	3518 7529	0638 1655
M 2	0-6	16 11	1440	DAY	20	14.5-15.1	15.0	15.1	15.0	NONE	33.7-33.8	33.7	33.6	3516 7522	0638 1656
M 3	0-15	17 11	0030	NIGHT	30	15.9-16.2	16.0	16.0	16.1	NONE	34.0-34.3	34.2	34.1	3514 7518	0637 1654
M 4	0-6	16 11	2339	NIGHT	41	17.5-17.6	17.5	17.6	17.9	NONE	35.0-35.1	35.1	34.9	3512 7512	0636 1655
M 5	0-15	15 11	2248	NIGHT	138	18.9-18.8	18.8	18.8	19.2	NONE	35.5-35.7	35.6	35.5	3510 7507	0635 1654
M 5	18-33	16 11	2248	NIGHT	138	18.9-19.1	19.0	18.8	19.2	NONE	35.6-35.8	35.7	35.5	3510 7507	0635 1654
N 1	0-6	16 11	1034	DAY	25	16.4-16.4	16.4	16.4	16.4	NONE	34.0-34.0	34.0	34.0	3501 7557	0635 1654
N 2	0-15	16 11	0937	DAY	26	18.6-18.8	18.7	18.8	18.9	NONE	35.5-35.6	35.6	35.5	3456 7555	0635 1654
N 3	0-15	16 11	0833	DAY	30	19.3-19.5	19.4	19.3	19.4	NONE	35.6-35.8	35.8	35.6	3451 7552	0638 1658
N 3	18-24	16 11	0833	DAY	30	19.4-19.5	19.4	19.3	19.4	NONE	35.8-35.9	35.9	35.6	3451 7552	0638 1658
N 4	0-15	16 11	0706	DAY	48	22.8-23.2	23.0	22.9	23.2	NONE	36.9-37.0	37.0	37.0	3442 7546	0637 1658
N 4	18-33	16 11	0706	DAY	48	23.0-23.3	23.2	22.9	23.2	NONE	36.9-37.0	36.9	37.0	3442 7546	0637 1658
N 5	0-15	16 11	0318	NIGHT	261	24.1-24.2	24.1	24.2	13.4	GRADUAL	37.4-37.6	37.5	37.5	3433 7544	0637 1658
N 5	18-33	16 11	0318	NIGHT	261	23.8-24.1	24.0	24.2	13.4	GRADUAL	37.2-37.5	37.3	37.5	3433 7544	0637 1658
P 1	0-6	15 11	1957	NIGHT	16	16.0-16.1	16.1	16.0	16.3	NONE	34.7-34.9	34.8	34.8	3438 7640	0640 1703
P 2	0-6	15 11	1906	NIGHT	17	16.7-17.0	16.8	17.0	17.1	NONE	34.6-34.9	34.7	34.8	3434 7537	0639 1702
P 3	0-6	15 11	1753	NIGHT	15	17.7-17.7	17.7	17.7	17.9	NONE	34.7-34.8	34.7	34.7	3425 7636	0639 1702
P 4	0-15	15 11	1617	DAY	32	20.8-21.4	21.1	21.4	21.4	NONE	36.2-36.3	36.2	36.2	3417 7623	0639 1703
P 4	18-24	15 11	1617	DAY	32	21.4-21.5	21.4	20.8	21.4	NONE	36.0-36.1	36.0	36.2	3417 7623	0639 1703
P 5	0-15	15 11	1428	DAY	115	23.0-23.1	23.1	23.0	22.2	NONE	36.8-37.0	36.9	36.9	3404 7613	0637 1702
P 5	18-33	15 11	1428	DAY	115	23.1-23.1	23.1	23.0	22.2	NONE	36.8-38.0	37.2	36.9	3404 7613	0637 1702

Table 3. Eggs and larvae of fishes identified from R. V. Dolphin ichthyoplankton survey, listed by station.

CRUISE DATE	***** LARVAE *****					***** LARVAE *****						
D 65 4 1965	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.		NO. PER 10M	2
STA. D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS
C 1 C3 12	SAMPLING DEPTH 0-6M											
MERLUCCIOUS BILINEARIS	1				0						0.1	0.0
PARALICHTHYS DENTATUS	1	1	5.2	SL	0						0.1	0.0
SCOPHTHALMUS AQUOSUS	5	2	4.2	4.1-4.2	SL						0.6	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
C 2 C3 12	SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS	1	1	18.7	TL							0.3	
ENCHELYOPIUS CIMBRIUS	1	1	5.0	SL	0						0.3	0.0
UROPHYCIS SP.	1	1	4.3	NL							0.3	
PARALICHTHYS DENTATUS	2	2	7.7	6.4-9.1	SL	0					0.6	0.0
SCOPHTHALMUS AQUOSUS	8	8	6.5	4.9-9.7	SL						2.4	
C 3 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
CIUFEA HARENGUS HARENGUS						1	1	17.9	TL		0.3	
ENCHELYOPIUS CIMBRIUS	2	2	8.0	6.3-9.6	SL	0				0	0.7	0.0
GADUS MORHUA					147					57	0.0	63.1
MERLUCCIOUS BILINEARIS					0	1	1	6.0	NL	0	0.3	0.0
PARALICHTHYS DENTATUS	2	2	10.8	10.1-11.5	SL	0	2	2	8.6	8.2-9.1	SL	0
SCOPHTHALMUS AQUOSUS	2	2	6.5	6.4-6.6	SL	0	27	18	6.9	3.6-12.1	SL	1.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
C 4 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
ENCHELYOPIUS CIMBRIUS	1	1	3.7	SL	0					0	0.3	0.0
GADUS MORHUA	10	8	5.3	3.5-6.5	SL	16	2	2	4.5	4.3-4.6	SL	3.8
UROPHYCIS SP.							9	9	6.2	2.8-11.1	NL	3.0
MERLUCCIOUS BILINEARIS	2	2	4.6	4.2-5.0	NL	0	17	17	8.5	3.2-13.0	NL	0
ETRCPUS MICROSTOMIUS							1	1	5.9	SL	0.3	
PARALICHTHYS DENTATUS	4	4	7.2	6.4-8.0	SL	0	13	13	7.2	4.9-9.4	SL	0
SCOPHTHALMUS AQUOSUS	8	6	5.2	4.5-6.5	SL		16	16	5.2	3.7-6.2	SL	7.7
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
C 5 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	1	1	2.2	NL		4	4	4.6	3.9-5.1	NL		1.6
MERLUCCIOUS BILINEARIS	13	11	6.1	4.3-7.8	NL	0	20	15	8.3	3.7-18.5	NL	0
PARALICHTHYS DENTATUS	1	1	8.8	SL	0	2	2	9.5	8.9-10.2	SL	0	1.0
C 6 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	4	4	5.6	4.5-7.2	NL						1.3	
MERLUCCIOUS BILINEARIS	6	6	8.3	7.0-8.9	NL	0	27	27	7.4	4.4-9.6	NL	0
PARALICHTHYS DENTATUS	2	2	7.7	7.3-8.2	SL	0	2	2	8.6	7.9-9.3	SL	0
SCOPHTHALMUS AQUOSUS							1	1	4.3	SL	0.3	
C 7 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	5	4	6.6	5.7-7.2	NL		2	2	5.9	5.5-6.3	NL	2.2
MERLUCCIOUS BILINEARIS					0	26	25	7.7	4.6-9.9	NL	0	8.7
CITHARICHTHYS ARCTIFRONS							2	2	6.7	5.5-7.8	SL	0.7
PARALICHTHYS DENTATUS	1	1	7.5	SL	0	2	2	8.2	7.8-8.6	SL	0	1.0
C 8 C4 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	1	1	6.9	NL							0.3	
D 1 05 12	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	6	6	18.7	15.4-23.8	TL						0.7	
PARALICHTHYS DENTATUS	2	2	8.8	8.3-9.4	SL	0					0.2	0.0
SCOPHTHALMUS AQUOSUS	39	38	4.4	2.7-8.6	SL						4.7	
ADDITIONAL LARVAE CAUGHT GOBIIDAE												
D 2 C5 12	SAMPLING DEPTH 0-9M											
BREVOORTIA TYRANNUS	1	1	20.2	TL							0.2	
PARALICHTHYS DENTATUS	1	1	8.7	SL	0						0.2	0.0
SCOPHTHALMUS AQUOSUS	68	68	4.9	3.3-6.7	SL						12.4	
D 3 C5 12	SAMPLING DEPTH 0-15M											
GADUS MORHUA	16	14	4.6	3.4-6.8	SL	92					4.8	27.9
UROPHYCIS SP.	4	3	6.3	3.9-10.9	NL						1.2	
MERLUCCIOUS BILINEARIS	1	1	4.2	NL	0						0.3	0.0
PARALICHTHYS DENTATUS	14	14	6.0	3.8-11.2	SL	0					4.2	0.0
SCOPHTHALMUS AQUOSUS	171	50	4.2	3.1-5.3	SL						51.8	

TABLE 3. (continued)

CRUISE DATE D65 4 1965 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS		
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS				
D 4 C5 12														
BREVOORTIA TYRANNUS						1	1	16.9		TL		0.2		
CLUFEA HARENGUS HARENGUS	1	1	27.7		TL						0.3			
ENGRAULIS EURYSTOLE	1	1	37.3		TL						0.3			
GADUS MORHUA	3	3	5.5	4.9-6.5	SL	0	13	13	4.4	3.2-5.3	SL	50	3.0	8.1
UROPHYCIS SP.	7	5	4.7	3.2-7.3	NL		6	5	3.7	3.1-4.4	NL		3.1	
MERLUCCIVUS BILINEARIS	1					0						0	0.3	0.0
CITHARICHTHYS ARCTIFRONS							1	1	5.8		SL		0.2	
PARALICHTHYS DENTATUS	37	36	6.6	4.5-9.6	SL	0	19	19	5.7	3.4-8.9	SL	0	14.4	0.0
SCOPHTHALMUS AQUOSUS	191	50	4.8	3.0-6.1	SL		203	50	4.5	3.0-7.8	SL		51.5	
.....														
D 5 C5 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
GADUS MORHUA	5	4	4.4	3.5-5.8	SL	55	19	17	4.2	3.3-5.3	SL	77	7.8	42.2
UROPHYCIS SP.	6	6	4.3	3.9-5.1	NL		9	5	4.6	2.8-6.0	NL		4.8	
MERLUCCIVUS BILINEARIS	3	3	4.4	3.7-5.1	NL	0						0	1.0	0.0
PARALICHTHYS DENTATUS	38	38	6.3	3.8-8.4	SL	0	53	51	5.9	3.9-7.4	SL	0	29.1	0.0
SCOPHTHALMUS AQUOSUS	155	50	4.7	2.9-7.7	SL		218	50	4.1	2.7-6.9	SL		119.2	
.....														
ADDITIONAL LARVAE CAUGHT														
UNIDENTIFIED														
.....														
D 6 C5 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
GADUS MORHUA	2	2	5.5	5.2-5.8	SL	0	9	8	5.3	4.4-6.8	SL	0	3.6	0.0
UROPHYCIS SP.	2	2	3.7	3.6-3.9	NL		4	4	5.4	3.9-6.9	NL	0	1.9	
MERLUCCIVUS BILINEARIS	10	8	3.7	3.1-5.0	NL	0	28	27	3.9	2.4-5.1	NL	0	12.3	0.0
CITHARICHTHYS ARCTIFRONS	2	2	4.6	3.1-6.1	SL							0	0.7	
PARALICHTHYS DENTATUS	40	40	6.4	3.1-8.0	SL	0	25	25	5.9	3.8-7.7	SL	0	20.3	0.0
SCOPHTHALMUS AQUOSUS	56	53	4.1	2.8-5.7	SL		139	50	4.1	2.9-5.7	SL		63.1	
.....														
ADDITIONAL LARVAE CAUGHT														
UNIDENTIFIED														
.....														
D 7 C6 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
UROPHYCIS SP.	1	1	6.1		NL							0	0.3	
MERLUCCIVUS BILINEARIS	3	3	24.5	10.6-33.2	NL	0	2	2	36.5	20.5-52.5	NL	0	1.6	0.0
CITHARICHTHYS ARCTIFRONS	1	1	8.1		SL		2	2	7.4	6.4-8.3	SL		1.0	
PARALICHTHYS DENTATUS	3	3	7.0	6.4-8.3	SL	0						0	1.0	0.0
SCOPHTHALMUS AQUOSUS	3	2	4.9	4.5-5.3	SL		7	5	4.3	4.0-4.7	SL		3.2	
.....														
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
D 8 C6 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENGRAULIS EURYSTOLE	1	1	20.6		TL								0.3	
DIAPHYS SP.	1	1	9.5		SL		1	1	9.3		SL		0.6	
UROPHYCIS SP.							3	3	10.5	7.5-15.9	NL		1.0	
MERLUCCIVUS BILINEARIS	2	2	11.1	9.2-13.1	NL	0	1	1	14.5		NL	0	0.9	0.0
BCTHUS OCCELLATUS							5	5	8.8	7.9-10.6	SL		1.7	
CITHARICHTHYS ARCTIFRONS	3	3	8.6	7.1-9.8	SL		4	4	7.6	6.8-8.6	SL		2.2	
.....														
ADDITIONAL LARVAE CAUGHT														
CALLICNYMIDAE UNIDENTIFIED														
.....														
E 1 C7 12	SAMPLING DEPTH 0-6M													
GADUS MORHUA	1	1	3.9		SL	0							0.1	0.0
SCOPHTHALMUS AQUOSUS	29	23	5.1	2.9-14.1	SL								3.5	
.....														
E 2 C7 12	SAMPLING DEPTH 0-6M													
CLUFEA HARENGUS HARENGUS	1	1	13.7		TL								0.1	
GADUS MORHUA	1	1	3.5		SL	0							0.1	0.0
PARALICHTHYS DENTATUS	3	3	7.3	5.9-8.2	SL	0							0.4	0.0
SCOPHTHALMUS AQUOSUS	119	50	4.2	3.1-6.1	SL								14.4	
.....														
ADDITIONAL LARVAE CAUGHT GOBIIDAE UNIDENTIFIED														
.....														
E 3 C7 12	SAMPLING DEPTH 0-6M													
GADUS MORHUA						4							0.0	0.5
PARALICHTHYS DENTATUS	1	1	5.5		SL	0							0.1	0.0
SCOPHTHALMUS AQUOSUS	30	19	4.6	3.5-6.2	SL								3.6	
.....														
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
E 4 C6 12	SAMPLING DEPTH 0-15M													
GADUS MORHUA	6	6	5.7	3.7-7.0	SL	22							1.8	6.7
UROPHYCIS SP.	7	4	4.6	3.9-5.6	NL								2.1	
MERLUCCIVUS BILINEARIS	2	2	6.2	5.3-7.1	NL	0							0.6	0.0
PARALICHTHYS DENTATUS	38	38	5.8	3.4-8.6	SL	0							11.5	0.0
SCOPHTHALMUS AQUOSUS	474	50	4.4	3.0-5.8	SL								143.6	
.....														
ADDITIONAL LARVAE CAUGHT GOBIIDAE														
.....														
E 5 C6 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M								
UROPHYCIS SP.	1	1	4.4		NL								0.3	
MERLUCCIVUS BILINEARIS						0	1	1	3.0		NL	0	0.3	0.0
PARALICHTHYS DENTATUS	10	10	5.3	3.2-6.7	SL	0	15	15	5.6	4.0-7.6	SL	0	8.0	0.0
SCOPHTHALMUS AQUOSUS	38	21	3.6	2.7-4.8	SL								12.7	
.....														
ADDITIONAL LARVAE CAUGHT GOBIIDAE UNIDENTIFIED														

TABLE 3. (continued)

40

CRUISE DATE D65 4 1965 STA. #	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS			
		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE					
E 6	06 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
	GADUS MORHUA					1				0	0.0	0.3			
	UROPHYCIS SP.						1	1	4.2	NL	0	0.2			
	MERLUCCIIUS BILINEARIS	3	3	3.4	2.7- 4.2	NL	0	3	3.7	3.4- 3.9	NL	0	1.4	0.0	
	CITHARICHTHYS ARCTIFRONS	1	1	5.6		SL						0.3			
	PARALICHTHYS DENTATUS	6	6	6.0	3.4- 7.2	SL	0	7	7	6.0	4.7- 8.2	SL	0	3.0	0.0
	SCOPHTHALMUS AQUOSUS	7	7	4.5	3.0- 6.1	SL		7	5	4.6	3.6- 6.0	SL		3.3	
E 7	06 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	LUPHUS AMERICANUS											0.3			
	UROPHYCIS SP.	1	1	6.8		TL		1	1	6.4		NL	0	0.9	
	MERLUCCIIUS BILINEARIS	2	2	6.3	4.2- 8.5	NL	0	4	4	7.6	5.2-10.8	NL	0	1.9	0.0
	CITHARICHTHYS ARCTIFRONS	1	1	10.0		SL		3	3	9.1	8.2-10.1	SL		1.3	
	PARALICHTHYS DENTATUS						0	2	2	5.4	8.7-10.1	SL	0	0.7	0.0
E 8	06 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	CERATOSCOPELUS MADERENSIS	1	1	14.1		SL						0.3			
	GADUS MORHUA	2					0					0.7	0.0		
	PARALICHTHYS DENTATUS						0	2	1	6.4		SL	0	0.7	0.0
	SCOPHTHALMUS AQUOSUS	1										0.3			
	ADDITIONAL LARVAE CAUGHT GOBIIDAE														
F 1	09 12	SAMPLING DEPTH 0-9M													
	BREVOORTIA TYRANNUS	2	2	30.0	29.4-30.6	TL						0.4			
	ANCHOA MITCHILLI	39	39	28.7	14.6-45.9	TL						7.1			
	SCOPHTHALMUS AQUOSUS	1	1	7.7		SL						0.2			
	ADDITIONAL LARVAE CAUGHT SYNGNATHICAE														
F 2	09 12	SAMPLING DEPTH 0-9M													
	BREVOORTIA TYRANNUS	1	1	28.3		TL						0.2			
	ANCHOA MITCHILLI	10	10	28.4	21.4-32.1	TL						1.8			
	PARALICHTHYS DENTATUS	1	1	13.5		SL	0					0.2	0.0		
	SCOPHTHALMUS AQUOSUS	3	3	10.4	7.7-12.0	SL						0.5			
	ADDITIONAL LARVAE CAUGHT SYNGNATHICAE														
F 3	09 12	SAMPLING DEPTH 0-15M													
	GADUS MORHUA	1					0					0.3	C.C.		
	PARALICHTHYS DENTATUS	2	2	9.6	9.0-10.3	SL	0					0.6	0.0		
	SCOPHTHALMUS AQUOSUS	16	15	4.6	2.7- 6.0	SL						4.8			
F 4	10 12	SAMPLING DEPTH 0-15M													
	BREVOORTIA TYRANNUS	1	1	21.0		TL						0.3			
	GADUS MORHUA	11	11	3.8	3.0- 4.9	SL	141					3.3	42.7		
	MERLUCCIIUS BILINEARIS	1	1	4.5		NL	0					0.3	0.0		
	PARALICHTHYS DENTATUS	20	20	6.3	3.9- 7.7	SL	0					6.1	0.0		
	SCOPHTHALMUS AQUOSUS	212	50	4.3	2.8- 5.4	SL						64.2			
	ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
F 5	10 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	GADUS MORHUA	1	1	3.9		SL	36	9	7	4.6	4.2- 4.9	SL	39	3.3	23.8
	MERLUCCIIUS BILINEARIS						0	2	2	3.3	2.8- 3.8	NL	0	0.7	0.0
	PARALICHTHYS DENTATUS	1	1	4.2		SL	0	14	14	5.2	3.8- 8.1	SL	0	5.0	0.0
	SCOPHTHALMUS AQUOSUS	4	3	3.5	2.8- 4.7	SL		15	13	4.1	2.7- 5.9	SL		6.2	
F 6	10 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	UROPHYCIS SP.	4	4	5.7	4.3- 7.2	NL						1.3			
	MERLUCCIIUS BILINEARIS						0	2	2	4.8	3.9- 5.8	NL	0	0.7	0.0
	CITHARICHTHYS ARCTIFRONS	1	1	8.7		SL		1	1	6.5		SL		0.6	
	PARALICHTHYS DENTATUS						0	2	2	8.5	8.0- 9.0	SL	0	0.7	0.0
	SCOPHTHALMUS AQUOSUS							4	4	5.4	4.2- 7.7	SL		1.3	
F 7	10 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	UROPHYCIS SP.	2	2	6.4	4.7- 8.2	NL						0.7			
	MERLUCCIIUS BILINEARIS	2	2	9.8	6.0-13.6	NL	0	7	6	7.3	3.8-11.0	NL	0	2.9	0.0
	CITHARICHTHYS ARCTIFRONS	1	1	7.4		SL		3	3	8.7	7.2-10.4	SL		1.3	
	PARALICHTHYS DENTATUS	1	1	6.9		SL	0	1	1	7.4		SL	0	0.6	0.0
G 1	11 12	SAMPLING DEPTH 0-3M													
	ANCHOA MITCHILLI	9	9	40.4	33.1-45.6	TL						0.5			
	SCOPHTHALMUS AQUOSUS	7	7	4.3	2.6- 6.5	SL						0.4			
	ADDITIONAL LARVAE CAUGHT SYNGNATHICAE														
G 2	11 12	SAMPLING DEPTH 0-3M													
	PARALICHTHYS DENTATUS	2	2	4.7	4.4- 5.0	SL	0					0.1	C.C.		
	SCOPHTHALMUS AQUOSUS	47	47	4.0	2.4- 5.6	SL						2.8			
	ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														

TABLE 3. (continued)

41

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)		NO.	EGGS	NUMBER	LENGTHS (MM)		NO.	EGGS		
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
G 3 10 12	SAMPLING DEPTH C-6M											
BREVOORTIA TYRANNUS	6	6	11.8	10.6-13.7	TL							0.7
GADUS MORHUA												0.0
PARALICHTHYS DENTATUS	7	7	6.3	3.7-7.5	SL							0.8
SCOPHTHALMUS AQUOSUS	19	19	4.3	3.2-6.8	SL							2.3
.....												
G 4 10 12	SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS	2	2	12.3	10.2-14.4	TL							0.6
GADUS MORHUA	1	1	5.6		SL							0.3
UROPHYCIS SP.	3	3	10.6	5.8-14.8	NL							0.9
PARALICHTHYS DENTATUS	6	6	5.5	4.7-7.5	SL							1.8
SCOPHTHALMUS AQUOSUS	27	27	5.0	2.9-6.4	SL							8.2
ADDITIONAL LARVAE CAUGHT GOBIIDAE												
.....												
G 5 10 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 12-33M					
GADUS MORHUA	8	7	5.1	4.1-7.5	SL							0
UROPHYCIS SP.	1	1	4.3		NL							2.7
PARALICHTHYS DENTATUS	2	1	5.2		SL							0.3
SCOPHTHALMUS AQUOSUS	7	7	5.6	4.2-6.4	SL	4	4	4.7	4.2-5.2	SL		0.7
.....												
G 6 10 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
GADUS MORHUA	3	3	6.0	5.2-7.2	SL							0
UROPHYCIS SP.	2	2	3.8	3.5-4.2	NL							1.0
MERLUCCIVUS BILINEARIS	1	1	4.3		NL							0.7
CITHARICHTHYS ARCTIFRONS	3	3	6.7	6.3-7.2	SL	1	1	6.8		NL		0.6
PARALICHTHYS DENTATUS	8	8	6.6	4.4-8.0	SL							1.0
SCOPHTHALMUS AQUOSUS	3	3	4.5	4.1-5.0	SL							2.7
.....												
H 1 11 12	SAMPLING DEPTH 0-6M											
ANCHOVA MITCHILLI	1	1	29.0		TL							0.1
ENGRAULIS EURYSTOLE	1	1	36.7		TL							0.1
MICROPOGON UNULATUS	2	2	7.3	6.9-7.7	SL							0.2
SCOPHTHALMUS AQUOSUS	3	3	3.6	3.2-4.2	SL							0.4
.....												
F 2 11 12	SAMPLING DEPTH C-6M											
PARALICHTHYS DENTATUS	3	3	4.6	3.2-5.5	SL							0
SCOPHTHALMUS AQUOSUS	19	18	3.4	2.5-4.4	SL							2.3
.....												
F 3 11 12	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	2	2	12.1	10.2-14.0	TL							0.2
GADUS MORHUA												0.0
UROPHYCIS SP.	1	1	4.2		NL							0.1
PARALICHTHYS DENTATUS	17	16	6.4	5.1-7.7	SL							2.1
SCOPHTHALMUS AQUOSUS	8	8	3.6	2.5-4.6	SL							1.0
.....												
H 4 11 12	SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS	2	2	11.8	10.9-12.8	TL							0.6
UROPHYCIS SP.	1	1	4.2		NL							0.3
PARALICHTHYS DENTATUS	4	4	7.3	6.6-8.3	SL							1.2
SCOPHTHALMUS AQUOSUS	1	1	4.7		SL							0.3
.....												
F 5 11 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M					
UROPHYCIS SP.	1	1	4.7		NL							0.3
PARALICHTHYS DENTATUS	10	10	6.3	4.8-8.3	SL							3.2
SCOPHTHALMUS AQUOSUS	5	5	4.4	3.3-5.8	SL	4	4	5.2	4.4-5.7	SL		2.2
.....												
F 6 11 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
SYMBOLOPHICRUS VERANYI						1	1	8.9		SL		0.3
MERLUCCIVUS BILINEARIS	3	3	8.8	4.3-17.7	NL	3	3	5.0	4.5-5.3	NL		1.9
CITHARICHTHYS ARCTIFRONS	1	1	7.0		SL	3	3	10.6	8.1-12.0	SL		1.3
PARALICHTHYS DENTATUS	3	3	4.8	3.5-6.2	SL	3	3	8.3	7.7-8.9	SL		1.9
SCOPHTHALMUS AQUOSUS	1	1	5.0		SL							0.3
ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA												
.....												
H 7 11 12	SAMPLING DEPTH 0-15M											
.....												
J 1 12 12	SAMPLING DEPTH C-3M											
ANCHOVA MITCHILLI	6	6	49.4	31.4-63.5	TL							0.4
MICROPOGON UNULATUS	2	2	8.3	7.8-8.8	SL							0.1
ADDITIONAL LARVAE CAUGHT GOBIIDAE												

TABLE 3. (continued)

42

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. MEAS. EGGS	***** LARVAE *****				NO. PER LARVAE	2 10M EGGS	
	NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.		NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.			
J 2 12 12	SAMPLING DEPTH 0-3M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	1	17.4		TL						0.1		
PARALICHTHYS DENTATUS	1	8.6		SL	0					0.1	0.0	
SCOPHTHALMUS AQUOSUS	1	4.0		SL						0.1		
ADDITIONAL LARVAE CAUGHT SYNGNATHICAE GOBIIDAE												
J 3 12 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	5	16.5	13.7-18.9	TL						0.6		
SCOPHTHALMUS AQUOSUS	1	2.6		SL						0.1		
J 4 12 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	1	10.1		TL						0.1		
UROPHYCIS SP.	5	6.5	4.5-7.9	NL						0.6		
PARALICHTHYS DENTATUS	12	5.4	4.1-7.3	SL	0					1.5	0.0	
SCOPHTHALMUS AQUOSUS	3	4.3	3.4-5.2	SL						0.4		
J 5 12 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	2	15.7	15.6-15.8	TL						0.6		
MERLUCCIVUS BILINEARIS	1	6.8		NL	0					0.3	0.0	
PARALICHTHYS DENTATUS	1	5.6		SL	0					0.3	0.0	
J 6 12 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
UROPHYCIS SP.					0	2	12.3	4.7-20.0	NL		0.3	0.0
MERLUCCIVUS BILINEARIS					0	2	7.3	5.8-8.9	NL	0	0.3	0.0
J 7 11 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
K 1 12 12	SAMPLING DEPTH 0-3M					SAMPLING DEPTH 18-24M						
SCOPHTHALMUS AQUOSUS	3	3.0	2.7-3.5	SL						0.2		
ADDITIONAL LARVAE CAUGHT SYNGNATHICAE												
K 2 12 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-24M						
K 3 13 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	1	15.1		TL						0.3		
MICROPOGON UNDULATUS	1	4.9		SL						0.3		
PARALICHTHYS DENTATUS	27	4.5	3.4-8.5	SL	0					8.2	0.0	
SCOPHTHALMUS AQUOSUS	8	3.0	2.7-3.6	SL						2.4		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
K 4 13 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	7	15.3	13.7-19.5	TL		3	13.6	11.4-15.0	TL		2.7	
UROPHYCIS SP.	20	10.6	6.7-20.6	NL		5	15.5	10.6-18.2	NL		6.9	
ETROPUS MICROSTOMUS	1	10.9		SL		2	5.4	7.7-11.1	SL		0.6	
PARALICHTHYS DENTATUS	11	6.5	4.8-7.6	SL	0	4	6.2	5.4-7.5	SL	0	4.0	
SCOPHTHALMUS AQUOSUS						1	10.1		SL		0.2	
K 5 13 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	3	14.1	13.4-15.1	TL						1.0		
EAGFAULIS EURYSTOIE						6	36.1	32.5-39.0	TL		1.0	
SYMBLOPHORUS VERANYI	1	9.8		SL						0.3		
UROPHYCIS SP.	4	10.2	7.0-13.8	NL		7	13.8	5.9-22.5	NL		2.4	
MICROPOGON UNDULATUS	1	5.5		SL		1	8.7		SL		0.5	
PARALICHTHYS DENTATUS	1	6.3		SL	0	12	7.7	6.3-10.9	SL	0	2.3	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
K 6 13 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
LEPHEUS AMERICANUS						1	3.0		TL		0.3	
UROPHYCIS SP.	6	7.3	6.1-9.9	NL						2.0		
MERLUCCIVUS BILINEARIS	2	7.4	6.0-8.9	NL	0	2	7.5	6.3-8.8	NL	0	1.3	
PARALICHTHYS DENTATUS	6	7.3	6.5-8.9	SL	0	3	8.6	7.9-9.3	SL	0	2.8	
K 7 13 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
PARALICHTHYS DENTATUS					0	1	5.6		SL	0	0.3	
L 1 13 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
ELEPS SAURUS	1	32.8		NL						0.1		
BREVOORTIA TYRANNUS	1	15.2		TL						0.1		
LEIOSTOMUS XANTHURUS	1	11.9		SL						0.1		
MICROPOGON UNDULATUS	1	5.8		SL						0.1		
PARALICHTHYS DENTATUS	1	13.1		SL	0					0.1	0.0	
SCOPHTHALMUS AQUOSUS	6	3.5	2.5-4.8	SL						0.7		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												

TABLE 3. (continued)

43

CRUISE DATE STA. O M SPECIES ANALYZED	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M ² LAVUE EGGS
	NUMBER	LENGTHS (MM)		RANGE MEAS.			NUMBER	LENGTHS (MM)		RANGE MEAS.		
L 2 13 12	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 1E-24M					
UROPHYCIS SP.	1	1	3.3		NL							0.1
LEICSTOMUS XANTHURUS	3	3	11.5	11.5-11.6	SL							0.4
PARALICHTHYS DENTATUS	44	44	4.7	3.0-12.5	SL	0						5.3
SCOPHTHALMUS AQUOSUS	1	1	3.1		SL							0.1
.....												
L 3 13 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-24M					
ELOPS SAURUS							1	1	33.2		NL	0.2
BREVOORTIA TYRANNUS	1	1	18.3		TL		7	7	12.5	9.1-15.9	TL	1.5
ENGRAULIS EURYSTOLE							3	3	24.4	23.1-25.9	TL	0.5
UROPHYCIS SP.	5	3	11.7	2.0-29.1	NL		17	8	6.6	4.8-8.2	NL	4.3
LEICSTOMUS XANTHURUS	1	1	9.5		SL		2	2	6.1	2.8-9.4	SL	0.6
MICROPOGON UNDULATUS	2	2	6.5	6.2-6.8	SL		20	20	6.7	4.9-8.4	SL	3.8
CITPARICHTHYS ARCFRONS	1	1	9.5		SL							0.3
PARALICHTHYS DENTATUS	4	4	8.2	4.8-9.6	SL	0	36	36	6.7	4.4-12.1	SL	7.0
SCOPHTHALMUS AQUOSUS	1	1	3.1		SL							0.3
ADDITIONAL LARVAE CAUGHT GOBIIDAE							SYNOdontIDAE					
							GOBIIDAE					
							UNIDENTIFIED					
.....												
L 4 14 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	2	2	2.6	2.3-3.0	NL		1	1	4.5		NL	0.9
MERLUCCIUS BILINEARIS						0	1	1	4.1		NL	0.3
LEICSTOMUS XANTHURUS							1	1	5.3		SL	0.3
ETROPUS MICROSTOMUS	1	1	6.7		SL							0.3
PARALICHTHYS DENTATUS	1	1	6.0		SL	0						0.3
ADDITIONAL LARVAE CAUGHT SYNOdontIDAE							PARALEPIDIDAE					
							GOBIIDAE					
.....												
L 5 14 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M					
LEICSTOMUS XANTHURUS	1	1	3.9		SL							0.3
PARALICHTHYS DENTATUS						1						0.0
ADDITIONAL LARVAE CAUGHT							SYNOdontIDAE					
.....												
M 1 14 12	SAMPLING DEPTH 0-3M											
BREVOORTIA TYRANNUS	18	12	18.4	12.3-21.3	TL							1.1
MICROPOGON UNDULATUS	2	2	8.4	8.0-8.9	SL							0.1
PARALICHTHYS DENTATUS	5	5	8.2	3.4-12.0	SL	0						0.3
SCOPHTHALMUS AQUOSUS	5	5	2.9	2.7-3.2	SL							0.3
ADDITIONAL LARVAE CAUGHT SPARIDAE												
.....												
M 2 14 12	SAMPLING DEPTH 0-9M											
BREVOORTIA TYRANNUS	79	36	14.2	10.1-18.4	TL							14.4
LEICSTOMUS XANTHURUS	2	2	9.2	9.2-9.3	SL							0.4
MICROPOGON UNDULATUS	5	5	8.7	7.3-11.1	SL							0.9
PARALICHTHYS DENTATUS	15	13	3.4	2.9-4.1	SL	8						2.7
SCOPHTHALMUS AQUOSUS	9	8	3.3	2.8-4.5	SL							1.6
ADDITIONAL LARVAE CAUGHT SPARIDAE												
.....												
M 3 14 12	SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS	181	77	10.6	5.1-16.3	TL							54.8
ENGRAULIS EURYSTOLE	4											1.2
UROPHYCIS SP.	21	11	7.8	2.9-11.0	NL							6.4
LEICSTOMUS XANTHURUS	3	3	6.2	4.2-7.6	SL							0.9
MICROPOGON UNDULATUS	5	5	7.9	7.3-8.7	SL							1.5
PARALICHTHYS DENTATUS	69	69	3.8	2.7-6.4	SL	9						20.9
SCOPHTHALMUS AQUOSUS	10	10	3.6	3.1-4.5	SL							3.0
ADDITIONAL LARVAE CAUGHT SYNOdontIDAE												
							UNIDENTIFIED					
.....												
M 4 14 12	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-24M					
BREVOORTIA TYRANNUS	5	5	12.8	9.5-14.2	TL		1	1	11.9		TL	1.7
ENGRAULIS EURYSTOLE	1	1	12.1		TL		1	1	13.3		TL	0.5
UROPHYCIS SP.	9	5	5.3	3.2-9.7	NL							2.9
LEICSTOMUS XANTHURUS	2	2	4.1	4.0-4.3	SL		35	35	7.0	5.1-10.9	SL	6.3
MICROPOGON UNDULATUS							11	11	5.9	3.7-7.0	SL	1.8
BETHEUS OCELLATUS	1											0.3
ETROPUS MICROSTOMUS							1	1	4.7		SL	0.2
PARALICHTHYS DENTATUS	4	4	6.6	4.6-10.8	SL	2	31	31	6.5	3.6-10.9	SL	6.2
SCOPHTHALMUS AQUOSUS							1	1	4.5		SL	0.2
ADDITIONAL LARVAE CAUGHT BREGMACEROTIDAE							SYNOdontIDAE					
							SPARIDAE					
							OPHIDIIDAE					
							CARAPIDAE					
							SPARIDAE					
							UNIDENTIFIED					

TABLE 3. (continued)

45

CRUISE DATE 065 4 1965 STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 1QM LARVAE	2 EGGS
		NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
N 2 15 12		SAMPLING DEPTH 0-15M										
	BREVDORTIA TYRANNUS	206	11	6.2	2.9-15.2	TL				62.4		
	ENGRAULIS EURYSTOLE	5	5	4.9	4.2-5.5	TL				1.5		
	UROPHYCIS SP.	19	14	6.0	2.2-15.7	NL				5.8		
	LEICSTOMUS XANTHURUS	83	83	4.7	3.0-9.4	SL				25.1		
	MICROPOGON UNDULATUS	66	65	4.8	2.8-10.6	SL				20.0		
	PRICNOTUS CARLINUS	6	6	5.4	3.7-7.5	SL				1.8		
	BCTHUS OCELLATUS	4	4	8.4	4.2-18.5	SL				1.2		
	ETRECPUS MICROSTOMUS	3	3	7.8	6.4-10.3	SL				0.9		
	PARALICHTHYS DENTATUS	44	43	4.7	3.0-10.0	SL	1			13.3	0.3	
	SCOPHTHALMUS AQUOSUS	6	6	3.8	2.5-5.2	SL				1.8		
	SYMPHURUS SP.	1	1	12.4		SL				0.3		
	ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE SYNODONTIDAE BREGMACEFTIDAE OPHIDIICAE SERRANICAE SPARIDAE CALLIONYMICAE GOBIIDAE GEMPYLIDAE UNIDENTIFIED										
.....												
N 3 15 12		SAMPLING DEPTH 0-15M										
	BREVDORTIA TYRANNUS	10	10	8.2	4.9-11.2	TL				3.0		
	ENGRAULIS EURYSTOLE	2	2	17.7	15.5-20.0	TL				0.6		
	CERATOSCOPELUS MAXE FENSIS	1	1	11.1		SL				0.3		
	CERATOSCOPELUS WARMINGI	1	1	5.3		SL				0.3		
	DIAHUS SP.	1	1	6.1		SL				0.3		
	UROPHYCIS SP.	7	7	3.7	2.9-5.0	NL				2.1		
	LEICSTOMUS XANTHURUS	56	55	4.6	2.7-7.3	SL				17.0		
	MICROPOGON UNDULATUS	23	23	3.8	2.5-10.4	SL				7.0		
	PEPRILUS TRIACANTHUS	1	1	5.5		SL				0.3		
	PRICNOTUS CARLINUS	7	7	5.4	5.0-5.8	SL				2.1		
	BCTHUS OCELLATUS	3	2	12.2	5.2-19.2	SL				0.9		
	ETRECPUS MICROSTOMUS	8	8	5.3	4.6-7.1	SL				2.4		
	PARALICHTHYS DENTATUS	6	6	5.0	3.2-7.9	SL	2			1.8	0.6	
	SCOPHTHALMUS AQUOSUS	2	2	4.5	3.1-5.8	SL				0.6		
	SYMPHURUS SP.	2	2	7.5	6.5-8.4	SL				0.6		
	ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE SYNODONTIDAE BREGMACEFTICAE OPHIDIICAE SERRANICAE SPARIDAE LABRIDAE OR SCARIDAE BLENNIICAE CALLIONYMICAE GOBIIDAE TRIGLICAE UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE D65 4 1965 STA. 0 M N 4 15 12	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	2 NO. PER 10M EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
AHLIA EGMENTIS	1	1	71.0	TL							0.3
OPHICHTHUS MELANOPODUS	1	1	31.5	NL							0.3
OPHICHTHUS OCELLATUS	4	4	33.7	27.0-43.0 TL		1	1	33.5	TL		1.5
BREVDORTIA TYRANNUS	36	32	7.5	4.1-12.7 TL		21	21	9.1	5.0-11.7 TL		17.8
ETRUMEUS SADIINA	5	5	7.3	6.0-10.0 TL		2	2	10.2	9.5-10.9 TL		2.2
ENGRAULIS EURYSTOIE	1	1	4.6	TL		4	4	20.4	18.6-22.1 TL		1.6
CERATOSCOPELIUS WARMINGI	2	2	5.6	5.2- 6.0 SL		1	1	5.0	SL		0.9
LAMFANYCTUS ALATUS OR PHOTONOTUS						1	1	6.3	SL		0.3
UROPHYCIS SP.	7	3	3.3	2.6- 3.7 NL		69	18	4.1	3.1- 5.3 NL		25.1
SERRANIDAE											0.0
HEMANTHIA E VI VANUS	2	2	3.0	2.8- 3.2 SL		3	3	3.1	2.4- 3.7 SL		1.6
LEICSTOMUS XANTHURUS	39	39	3.6	2.5- 7.6 SL		208	201	4.5	2.7- 8.0 SL		81.0
MICROPOGON UNULATUS	41	40	3.2	2.5- 4.4 SL		133	132	3.8	2.5- 8.6 SL		56.6
PEPILUS TRIACANTHUS						3	3	3.6	3.2- 4.1 SL		1.0
PRIONOTUS CARLINUS						24	24	5.5	3.7- 8.0 SL		8.0
BOTHUS OCELLATUS	1	1	11.4	SL		6	6	6.5	3.3- 8.9 SL		2.3
ETRCPIUS MICROSTOMUS	12	12	6.0	4.7- 7.6 SL		158	25	4.9	2.9- 9.4 SL		16.3
PARALICHTHYS DENTATUS	5	5	4.3	3.8- 4.8 SL	5	4	4	4.8	3.2- 7.3 SL	0	2.8
SCOPHTHALMUS AQUOSUS						2	1	4.2	SL		0.7
SYACTUM PAPILLOSUM	1	1	10.0	SL							0.3
SYMPHURUS SP.	2	2	4.2	4.2- 4.2 SL							0.7
ADDITIONAL LARVAE CAUGHT	SYNOdontIDAE					SYNOdontIDAE					
	PARALEPIDICAE					BREGMACEROTIDAE					
	LOPHIICHTHES					OPHIDIIDAE					
	BREGMACEROTIDAE					SPARIDAE					
	OPHIDIIDAE					MUGILIDAE					
	SYNGNATHICAE					CALLIONYMIDAE					
	SERRANIDAE					GOBIICAE					
	CARANGIDAE					STROMATEIDAE					
	SPARIDAE					UNIDENTIFIED					
	LABRIDAE OR SCARIDAE										
	GOBIIDAE										
	SCORPAENIDAE										
	TRIGLIDAE										
	UNIDENTIFIED										
.....											
N 5 15 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVDORTIA TYRANNUS	172	49	8.2	3.9-11.2 TL		49	45	6.6	5.3-12.7 TL		47.9
ETRUMEUS SADIINA	1	1	12.0	TL		2	2	13.1	13.0-13.3 TL		1.0
ENGRAULIS EURYSTOIE	1	1	18.2	TL		7	6	13.7	9.3-22.6 TL		2.6
LAMFANYCTUS ALATUS OR PHOTONOTUS	2	2	4.9	4.7- 5.1 SL							0.7
UROPHYCIS SP.	231	36	3.7	1.9- 6.9 NL		58	7	4.4	1.9- 6.3 NL		88.6
SERRANIDAE											0.0
LEICSTOMUS XANTHURUS	206	109	4.7	2.8- 9.5 SL		109	106	4.3	2.7- 7.6 SL		98.1
MICROPOGON UNULATUS	14	12	3.9	2.5- 5.4 SL		50	48	4.2	2.7- 8.6 SL		20.9
PEPILUS TRIACANTHUS	5	5	3.9	2.9- 4.5 SL		1	1	4.5	SL		1.8
PRIONOTUS CARLINUS	10	10	3.9	2.7- 5.5 SL		1	1	5.7	SL		3.3
BOTHUS OCELLATUS	5	5	3.5	2.5- 5.1 SL		3	3	4.9	3.2- 6.2 SL		2.5
CYCLIPSETTA FIMBRIATA	1	1	6.1	SL							0.3
ETRCPIUS MICROSTOMUS	50	48	5.2	3.1-10.0 SL		117	25	4.7	3.0- 9.3 SL		54.0
PARALICHTHYS DENTATUS	12	12	3.5	2.9- 5.2 SL	6	11	11	4.6	3.2- 7.3 SL	1	7.3
SCOPHTHALMUS AQUOSUS						1	1	4.5	SL		0.3
SYACTUM PAPILLOSUM						1	1	8.2	SL		0.3
SYMPHURUS SP.						1	1	3.9	SL		0.3
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					VINGIGUERRIA					
	SYNOdontIDAE					STOMIATIDAE					
	OPHIDIIDAE					SYNOdontIDAE					
	SYNGNATHICAE					PARALEPIDIDAE					
	SERRANIDAE					BREGMACEROTIDAE					
	SPARIDAE					OPHIDIIDAE					
	LABRIDAE OR SCARIDAE					SERRANIDAE					
	MUGILICAE					CARANGIDAE					
	CALLIONYMICAE					SPARIDAE					
	GOBIIDAE					LABRIDAE OR SCARIDAE					
	ACANTHURICAE					CALLIONYMIDAE					
	STROMATEIDAE					GOBIICAE					
	SCORPAENICAE					TRICHIURICAE					
	UNIDENTIFIED					STROMATEIDAE					
						SCORPAENIDAE					
						UNIDENTIFIED					
.....											
P 1 15 12	SAMPLING DEPTH 0- 3M										
MICROPOGON UNULATUS	1	1	8.4	SL							0.1
PARALICHTHYS DENTATUS					5						0.0
SCOPHTHALMUS AQUOSUS	1	1	3.0	SL							0.1
ADDITIONAL LARVAE CAUGHT	SPARIDAE										
	CALLIONYMICAE										

TABLE 3. (continued)

CRUISE DATE 065 4 1965	STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	PER 10M ² EGGS	
			NUMBER	LENGTHS (MM)	RANGE	MEAS.		NUMBER	LENGTHS (MM)	RANGE	MEAS.			
P 2	15 12		SAMPLING DEPTH 0-6M											
		ANCHOA FEPSETUS	1	1	47.6							0.1		
		LEICSTOMUS XANTHURUS	1	1	7.3							0.1		
		MICROPOGON UNULATUS	4	4	9.3	8.7-10.0	SL					0.5		
		BCTHUS OCELLATUS	1	1	13.6		SL					0.1		
		SCOPHTHALMUS AQUOSUS	2	1	2.8		SL					0.2		
		ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA											
			SPARIDAE											
			UNIDENTIFIED											
.....														
P 3	15 12		SAMPLING DEPTH 0-15M											
		ELCFS SAURUS	2	2	28.9	28.0-29.1	NL					0.6		
		OPHICHTHUS MELANOPHUS	1	1	30.2		NL					0.3		
		ENGRAULIS EURYSTOLE	2	1	29.1		TL					0.6		
		LAMPANICTUS ALATUS CR PHOTONCTUS	1									0.3		
		MYCOPHUM AFFINE	1	1	4.4		SL					0.3		
		UFOPHYCIS SP.	2	2	5.6	5.3-5.9	NL					0.6		
		HEMANTHIAS VI VANUS	2	2	3.4	3.3-3.5	SL					0.6		
		LEICSTOMUS XANTHURUS	21	21	7.2	4.2-9.5	SL					6.4		
		MICROPOGON UNULATUS	2	2	5.3	5.1-5.6	SL					0.6		
		PRIONOTUS CAROLINUS	2	2	5.3	4.9-5.8	SL					0.6		
		BCTHUS OCELLATUS	3	3	9.2	4.7-17.3	SL					0.9		
		ETRCPUS MICROSTOMUS	6	6	6.0	4.0-9.0	SL					1.8		
		PARALICHTHYS DENTATUS	1	1	5.6		SL	1				0.3	0.3	
		SCOPHTHALMUS AQUOSUS	39	26	3.2	2.5-4.8	SL					11.8		
		SYMPHURUS SP.	2	2	8.9	5.7-12.1	SL					0.6		
		ADDITIONAL LARVAE CAUGHT	VINCIGUERRIA SP.											
			SYNGNATHICAE											
			SERRANIDAE											
			SPARIDAE											
			LABRIDAE OR SCARIDAE											
			MUGILICAE											
			CALLIONYMICAE											
			GOBIIDAE											
			ACANTHURIDAE											
			SCORPAENICAE											
			TRIGLIDAE											
			TETRAODONTIDAE											
			UNIDENTIFIED											
.....														
P 4	15 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 10-33M							
		OPHICHTHUS OCELLATUS	1	1	20.3							0.3		
		BREVOORTIA TYRANNUS	8	8	9.2	7.7-12.0	TL					3.1		
		ETRUMEUS SADINA	1	1	13.1		TL					0.3		
		CERATOSCOPELUS WAKMINGI	2	2	5.7	5.3-6.1	SL					0.7		
		LAMPANICTUS ALATUS CR PHOTONOTUS	2	2	4.2	4.1-4.3	SL					0.7		
		UFOPHYCIS SP.	34	11	3.5	2.5-5.6	NL					11.9		
		LEICSTOMUS XANTHURUS	322	102	4.2	3.0-7.5	SL					124.6		
		MICROPOGON UNULATUS	76	75	3.8	3.0-7.0	SL					31.1		
		PEPRILUS TRIACANTHUS	1	1	3.4		SL					0.3		
		PRIONOTUS CAROLINUS	15	15	6.0	4.8-7.0	SL					9.5		
		BCTHUS OCELLATUS	15	15	4.6	3.0-7.5	SL					5.0		
		ETRCPUS MICROSTOMUS										6.3		
		PARALICHTHYS DENTATUS	2	2	3.5	3.2-3.8	SL	4				0.9	1.5	
		SYMPHURUS SP.	2	2	6.0	4.1-7.8	SL					0.7		
		ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE				SYNODONTIDAE							
			PARALEPIDIDAE				PARALEPIDIDAE							
			OPHIDIIDAE				OPHIDIIDAE							
			SERRANICAE				SYNGNATHICAE							
			SPARIDAE				SERRANIDAE							
			LABRIDAE OR SCARIDAE				SPARIDAE							
			MUGILICAE				CHAETODONTICAE							
			CALLIONYMICAE				MUGILICAE							
			GOBIIDAE				GOBIIDAE							
			ACANTHURIDAE				TRIGLIDAE							
			GEMPYLICAE				UNIDENTIFIED							
			STROMATEIDAE											
			SCORPAENICAE											
			TRIGLIDAE											
			UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				NO. PER 10M ² LARVAE	EGGS
	NUMBER	MEAN	LENGTHS (MM)	NO.	NUMBER	MEAN	LENGTHS (MM)	NO.		
A 1 26 01	SAMPLING DEPTH 0-6M				SAMPLING DEPTH 0-6M					
CLUPEA HARENGUS HARENGUS	2	36.5	36.1-36.9 TL						0.2	
GADUS MORHUA	7	10.3	6.7-16.2 SL	5					0.8	0.6
AMMODYTES SP.	50	8.9	5.5-20.8 TL						6.1	
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE PHOLIDAE COTTIDAE									
A 2 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 0-15M					
CLUPEA HARENGUS HARENGUS	7	25.4	24.5-41.5 TL						2.1	
GADUS MORHUA	3	8.2	5.9-9.6 SL	3					0.9	0.9
POLLACHIUS VIRENS	5	11.9	6.9-15.7 SL	0					1.5	0.0
AMMODYTES SP.	27	10.6	6.3-23.2 TL						8.2	
SCOPHTHALMUS AQUOSUS	1	27.0	SL						0.3	
LIPANDA FERRUGINEA	1	57.6	SL						0.3	
ADDITIONAL LARVAE CAUGHT	PHOLIDAE COTTIDAE UNIDENTIFIED									
B 1 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 0-15M					
GADUS MORHUA	2	6.6	5.6-7.6 TL	1					0.0	0.3
AMMODYTES SP.	2								0.6	
ADDITIONAL LARVAE CAUGHT	PHOLIDAE COTTIDAE									
B 2 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 0-15M					
GADUS MORHUA	2			1					0.0	0.3
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE PHOLIDAE COTTIDAE									
B 3 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	4	28.0	25.4-31.1 TL	0	1	6.2	SL	0	1.3	0.0
ENCYLIYOPUS CIMBRIUS				2				0	0.0	0.7
GADUS MORHUA	1	11.5	SL	0				0	0.3	0.0
POLLACHIUS VIRENS	22	9.1	5.8-14.5 TL						7.3	
AMMODYTES SP.										
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE PHOLIDAE				OPHIDIIDAE					
B 4 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	1	27.0	TL	0	4	25.1	28.9-29.6 TL	0	1.6	
GADUS MORHUA	2	4.9	4.4-5.3 SL	0	2	5.2	5.2-5.2 SL	0	1.3	0.0
POLLACHIUS VIRENS				0	1	3.3	SL	0	0.3	0.0
AMMODYTES SP.	1	11.8	TL		13	10.3	5.5-14.6 TL		4.6	
ADDITIONAL LARVAE CAUGHT					SYNGNATHIDAE					
B 5 26 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	1	23.7	TL	0	3	28.5	26.6-30.6 TL	0	1.3	
POLLACHIUS VIRENS	2	9.0	8.5-9.4 SL	0	3	10.1	8.2-11.6 SL	0	1.6	0.0
AMMODYTES SP.	37	11.5	7.3-16.3 TL		25	11.5	6.9-15.2 TL		19.4	
ADDITIONAL LARVAE CAUGHT										
B 6 25 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	6	26.9	24.3-30.1 TL	0	8	26.9	22.9-30.4 TL	0	4.5	
GADUS MORHUA				0	10	7.6	5.6-10.1 SL	0	3.3	0.0
POLLACHIUS VIRENS	22	6.5	4.3-9.5 SL	0	37	6.7	4.1-11.5 SL	0	18.9	0.0
AMMODYTES SP.	237	10.4	6.5-17.5 TL		344	11.0	7.0-20.6 TL		185.7	
PARALICHTHYS TENTACULUS				0	1	8.7	SL	0	0.3	0.0
ADDITIONAL LARVAE CAUGHT										
P 7 25 01	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	1	30.2	TL	0	3	5.6	4.6-7.3 SL	0	0.3	
GADUS MORHUA	3	5.6	5.2-5.9 SL	0				0	1.9	0.0
MELANOGRAMMUS AEGEIFINUS	2	5.7	4.6-6.9 NL	1				0	0.7	0.3
POLLACHIUS VIRENS	15	6.0	4.3-9.2 SL	0	7	5.2	4.3-6.3 SL	0	6.8	0.0
AMMODYTES SP.	68	12.1	9.6-16.4 TL		52	11.1	8.5-14.6 TL		27.7	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED									
C 1 02 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 0-15M					
SCOPHTHALMUS AQUOSUS	1	33.0	SL						0.3	
ADDITIONAL LARVAE CAUGHT	COTTIDAE									
C 2 02 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 0-15M					
ENCYLIYOPUS CIMBRIUS	1	34.2	SL	0					0.3	0.0
GADUS MORHUA				1					0.0	0.3
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE UNIDENTIFIED									

TABLE 3. (continued)

50

CRUISE DATE D66 1 1966 STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	AD. PER 10 ² EGGS
		NUMBER	LENGTHS (MM)				NUMBER	LENGTHS (MM)				
C 3	C2 02	TOTAL MEAS.	MEAN RANGE	MEAS.		TOTAL MEAS.	MEAN RANGE	MEAS.				
	ADDITIONAL LARVAE CAUGHT											
C 4	C3 02											
	GADUS MORHUA	2	2 5.2 3.8-6.5 SL		0					3	0.6	0.5
	MELANOGRAMMUS AEGEFINUS	1	1 5.7		0					0	0.3	C.C
	POLLACHIUS VIRENS				0	1	1 7.0		SL	0	0.2	0.0
	ADDITIONAL LARVAE CAUGHT PHOLIDAE											
C 5	C3 02											
	CLUFEA HARENGUS HARENGUS	1	1 27.3	TL							0.3	
	ENCYLIPTERUS CIMBRIUS	1	1 6.8	SL	0	1	1 8.7		SL	0	0.6	0.0
	GADUS MORHUA	5	4 5.5 4.6-6.2 SL		1	5	5 5.5 4.1-6.5 SL			0	3.2	C.3
	POLLACHIUS VIRENS				0	9	8 8.2 4.9-11.0 SL			0	3.0	0.0
	AMMODYTES SP.	2	2 13.5 13.0-14.0 TL								0.7	
	ADDITIONAL LARVAE CAUGHT PHOLIDAE											
C 6	C4 02											
	GADUS MORHUA	6	6 5.6 4.6-7.7 SL		0	4	4 6.2 4.9-8.4 SL			0	3.1	C.C
	POLLACHIUS VIRENS	3	3 7.2 6.4-8.9 SL		0					0	1.0	C.C
	ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
C 7	C4 02											
	GADUS MORHUA	3	3 6.1 4.2-7.2 SL		0	3	3 7.7 7.0-9.0 SL			0	1.9	0.0
	POLLACHIUS VIRENS				0	13	13 7.9 4.6-13.7 SL			0	4.3	0.0
	AMMODYTES SP.	4	4 14.4 12.3-17.4 TL			6	6 12.9 10.0-17.0 TL				3.2	
	ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
C 8	C4 02											
	AMMODYTES SP.	4	4 13.8 12.9-15.3 TL								1.3	
	ADDITIONAL LARVAE CAUGHT PARALEPICICAE											
C 1	C4 02											
	POLLACHIUS VIRENS	3	3 5.0 3.3-5.5 SL		0						0.4	0.0
	AMMODYTES SP.	4	3 13.2 11.0-15.6 TL								0.5	
	ADDITIONAL LARVAE CAUGHT COTTIDAE											
C 2	C4 02											
	GADUS MORHUA	1	1 6.2	SL	0						0.1	0.0
	POLLACHIUS VIRENS	1	1 9.6	SL	0						0.1	C.C
	ADDITIONAL LARVAE CAUGHT COTTIDAE											
C 3	C4 02											
	GADUS MORHUA	2	2 5.2 5.1-5.2 SL		5						0.6	1.5
	POLLACHIUS VIRENS	1	1 10.5	SL	0						0.3	C.C
	AMMODYTES SP.	1	1 13.0	TL							0.3	
	ADDITIONAL LARVAE CAUGHT PHOLIDAE											
C 4	C4 02											
	GADUS MORHUA	3	3 5.2 4.3-5.8 SL		0						0.9	0.0
	POLLACHIUS VIRENS	1	1 10.0	SL	0						0.3	C.C
	AMMODYTES SP.	1	1 12.2	TL							0.3	
	ADDITIONAL LARVAE CAUGHT PHOLIDAE											
C 5	C4 02											
	GADUS MORHUA	2	1 7.8	SL	0	3	3 8.8 7.5-9.7 SL			2	1.1	C.3
	POLLACHIUS VIRENS				0	1	1 12.8		SL	0	0.2	C.C
	AMMODYTES SP.	1	1 21.2	TL		1	1 20.0		TL		0.5	
	ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
C 6	C4 02											
	GADUS MORHUA	1	1 4.7	SL	0						0.3	0.0
	AMMODYTES SP.	19	19 14.4 12.0-17.8 TL			2	2 14.6 13.0-16.3 TL			0	6.4	
	ADDITIONAL LARVAE CAUGHT PHOLIDAE											
C 7	C4 02											
	POLLACHIUS VIRENS	3	3 8.0 6.6-9.0 SL		0	2	2 8.3 8.0-8.5 SL			0	1.6	0.0
	AMMODYTES SP.	2	2 13.1 12.2-14.0 TL			5	5 14.5 13.4-17.4 TL				2.3	
	PARALICHTHYS CENTATUS				0	1	1 5.5		SL	0	0.3	0.0

TABLE 3, (continued)

51

CRUISE DATE STA. O M D 8 C4 02	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 100 LARVAE	2 EGGS			
		NUMBER	LENGTHS (MM)		MEAS.		NUMBER	LENGTHS (MM)		MEAS.					
	AMPCDYTES SP. PARALICHTHYS DENTATUS ADDITIONAL LARVAE CAUGHT	2	2	16.6	15.5-17.8	TL	0	1	1	9.1	SL	0	0.7 0.3	0.0	
E 1 C5 02	ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 1E-33M								
		ANGUILLA ROSTRATA COTTIDAE					UNIDENTIFIED								
F 2 C5 02	AMPCDYTES SP.	3	3	14.1	11.6-17.2	TL							0.4		
E 3 C5 02	GADUS MORHUA AMPCDYTES SP.	2	2	9.1	7.2-10.9	SL	0						0.2 1.1	C.C	
E 4 C5 02	CLUPEA HARENGUS HARENGUS GADUS MORHUA AMPCDYTES SP. ADDITIONAL LARVAE CAUGHT	1	1	32.0		TL	0						0.3 2.1 0.3	C.C	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M								
E 5 C5 02	CLUPEA HARENGUS HARENGUS GADUS MORHUA POLLACHIUS VIRENS AMPCDYTES SP. ADDITIONAL LARVAE CAUGHT	1	1	23.2		TL	1	1	1	4.1	SL	0	0.3 1.0 0.2 0.3	C.C	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M								
E 6 C5 02	CLUPEA HARENGUS HARENGUS GADUS MORHUA SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	1	1	26.9		TL	0						0.3 0.6 0.3	0.0	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M								
E 7 C5 02	POLLACHIUS VIRENS AMPCDYTES SP.	1	1	10.0		SL	0						0.3 7.3	0.0	
E 8 C5 02	AMPCDYTES SP.	1	1	17.1		TL							0.3		
F 2 C6 02	AMPCDYTES SP. ADDITIONAL LARVAE CAUGHT	7	7	13.7	10.8-16.4	TL							0.8		
F 3 C6 02	GADUS MORHUA AMPCDYTES SP. PARALICHTHYS DENTATUS ADDITIONAL LARVAE CAUGHT	4	2	8.5	7.7-9.2	SL	0						1.2 27.3 0.3	0.0	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M								
F 4 C6 02	GADUS MORHUA AMPCDYTES SP.	1	1	9.7		SL	0						0.3 7.6	0.0	
F 5 C6 02	GADUS MORHUA AMPCDYTES SP. ADDITIONAL LARVAE CAUGHT	2	2	9.2	7.7-10.7	SL	0	7	7	10.7	8.5-15.0	SL	0	1.7 23.4	C.C
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M								
F 6 C5 02	POLLACHIUS VIRENS AMPCDYTES SP. ADDITIONAL LARVAE CAUGHT	2	2	8.3	8.1-8.4	SL	0	1	1	17.2		TL	0	0.7 1.2	0.0
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M								
F 7 C5 02		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M								
		ANGUILLA ROSTRATA PHOLIDAE					ANGUILLA ROSTRATA BREGMACROTICAE PHOLIDAE UNIDENTIFIED								
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M								
		GADUS MORHUA AMPCDYTES SP.					GADUS MORHUA AMPCDYTES SP.								

TABLE 3. (continued)

52

CRUISE DATE D66 J 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 100 LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
G 1 C6 02	SAMPLING DEPTH 0-6M										
CLUPEA HARENGUS HARENGUS	1	1	26.0	TL						0.1	
ACHOA MITCHILLI	2	2	45.3	44.2-46.5 TL						0.2	
POLLACHIUS VIRENS	1	1	9.6	SL	0					0.1	0.0
AMMODYTES SP.	28	28	9.6	4.9-21.4 TL						3.4	
ADDITIONAL LARVAE CAUGHT	PHOLIDAE										
	COTTIDAE										
G 2 C6 02	SAMPLING DEPTH 0-6M										
GADUS MORHUA	3	3	10.2	8.3-12.2 SL	0					0.4	0.0
AMMODYTES SP.	60	50	11.9	8.9-22.7 TL						7.3	
ADDITIONAL LARVAE CAUGHT	COTTIDAE										
G 3 C6 02	SAMPLING DEPTH 0-15M										
GADUS MORHUA	1				0					0.3	0.0
AMMODYTES SP.	33	33	12.9	5.4-19.1 TL						10.0	
G 4 C6 02	SAMPLING DEPTH 0-15M										
AMMODYTES SP.	14	13	15.7	12.2-18.9 TL						4.2	
ADDITIONAL LARVAE CAUGHT	PHOLIDAE										
G 5 C6 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
GADUS MORHUA	1	1	17.9	TL	0	1				0.3	0.0
AMMODYTES SP.						12	12	11.8	9.6-18.0 TL	4.3	
ADDITIONAL LARVAE CAUGHT	PHOLIDAE										
G 6 C6 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
AMMODYTES SP.						1	1	16.9	TL	0.3	
ADDITIONAL LARVAE CAUGHT	LABRIDAE OR SCARIDAE					PHOLIDAE					
F 1 C7 02	SAMPLING DEPTH 0-3M										
CLUPEA HARENGUS HARENGUS	1	1	44.3	TL						0.1	
AMMODYTES SP.	15	15	10.9	5.6-18.6 TL						0.9	
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA										
F 2 C7 02	SAMPLING DEPTH 0-6M										
BREVORTIA TYRANNIS	2	2	21.1	19.4-22.5 TL						0.2	
GADUS MORHUA	1	1	7.4	SL	0					0.1	0.0
UROPHYCIS SP.	1	1	7.6	NL						0.1	
AMMODYTES SP.	47	45	10.1	6.0-17.7 TL						5.7	
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA										
	COTTIDAE										
F 3 C7 02	SAMPLING DEPTH 0-6M										
BREVORTIA TYRANNIS	1	1	15.5	TL						0.1	
GADUS MORHUA	1	1	8.5	SL	0					0.1	0.0
AMMODYTES SP.	13	13	14.3	6.8-22.2 TL						1.6	
ADDITIONAL LARVAE CAUGHT	COTTIDAE										
H 4 C6 02	SAMPLING DEPTH 0-15M										
AMMODYTES SP.	12	12	14.7	5.0-25.5 TL						3.6	
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA										
	GOBIIDAE										
	UNIDENTIFIED										
F 5 C6 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
AMMODYTES SP.						3	3	16.9	15.5-18.6 TL	0.5	
PRIONOTUS CARLINIUS						2	2	21.4	21.3-41.5 SL	0.3	
PARALICHTHYS CENTATUS	1	1	7.6	SL	0					0.3	0.0
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA										
H 6 C6 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	1	1	3.1	NL						0.3	
H 7 C6 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
POLLACHIUS VIRENS					0	1	1	13.1	SL	0	0.3
ADDITIONAL LARVAE CAUGHT	SERRANICAE					ANGUILLA ROSTRATA					0.0
J 1 C7 02	SAMPLING DEPTH 0-6M										
J 2 C7 02	SAMPLING DEPTH 0-6M										
ACHOA MITCHILLI	1	1	59.5	TL						0.1	
AMMODYTES SP.	1	1	20.2	TL						0.1	

TABLE 3. (continued)

53

CRUISE DATE STA. 04	***** LARVAE *****				***** LARVAE *****				NO. PER 10 M LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.		
SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS		
J 3 C7 02 AMMODYTES SP.	SAMPLING DEPTH 0-6M									
	3	3	11.1	7.0-13.6 TL					0.4	
J 4 C7 02 AMMODYTES SP.	SAMPLING DEPTH 0-15M									
	1	1	19.0	TL					0.3	
J 5 C7 02 BREVOORTIA TYRANNUS AMMODYTES SP.	SAMPLING DEPTH 0-15M									
	1	1	23.5	TL					0.3	
	2	2	21.9	20.8-23.1 TL					0.6	
J 6 C7 02 AMMODYTES SP.	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
	3	3	17.2	14.1-19.0 TL	2	2	12.1	5.8-18.4 TL	1.3	
J 7 C7 02 ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
					CARAPIDAE					
K 1 C8 02 BREVOORTIA TYRANNUS AMMODYTES SP.	SAMPLING DEPTH 0-6M									
	3	3	16.8	9.5-25.4 TL					0.4	
	1	1	6.6	TL					0.1	
K 2 C8 02 BREVOORTIA TYRANNUS ANCHOA MITCHILLI AMMODYTES SP. SCOPHYTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-15M									
	4	4	17.3	13.8-24.3 TL					1.2	
	17	17	39.0	30.1-46.6 TL					5.2	
	4	4	15.0	11.6-17.8 TL					1.2	
	2	2	7.2	5.6-8.7 SL					0.6	
					GOBIIDAE					
					COTTIDAE					
K 3 C7 02 BREVOORTIA TYRANNUS MICROPOGON UNDULATUS AMMODYTES SP. ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-15M									
	1	1	17.0	TL					0.3	
	1	1	48.0	SL					0.3	
	3	3	19.7	16.7-24.0 TL					0.9	
					GOBIIDAE					
K 4 C7 02 AMMODYTES SP.	SAMPLING DEPTH 0-15M									
	4	4	22.0	14.0-27.8 TL					1.2	
K 5 C7 02 ENCYLIOPUS CIMBRIUS AMMODYTES SP. PRIONOTUS CAROLINUS ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
	0	1	1	3.4 SL	0	0	0	0	0.2	
	6	6	19.7	16.8-21.5 TL	8	8	18.8	13.5-29.5 TL	3.1	
					1	1	30.4	SL	0.2	
					GOBIIDAE					
K 6 C7 02 OPHICHTHUS OCELLATUS BREVOORTIA TYRANNUS ENGRAULIS EURYSTOMAE UROPHYCIS SP. UROPHYCIS REGIUS BETHEUS OCELLATUS ETROPUS MICROSTOMUS PARALICHTHYS DENTATUS ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	1	1	33.5	TL					0.3	
	1	1	17.9	TL					0.3	
					2	2	18.4	17.9-19.0 TL	0.7	
	4	3	2.7	2.5-2.8 NL	1	1	2.3	NL	1.5	
	3	3	9.7	7.8-13.1 NL					1.0	
	1								0.3	
	1	1	7.6	SL					0.3	
					0	1	1	8.9 SL	0	
					CARAPIDAE					0.0
					SERRANIDAE					
					GOBIIDAE					
K 7 C7 02 MYRICHTHYS OCELLATUS OPHICHTHUS OCELLATUS ENGRAULIS EURYSTOMAE NOTOSCOPULUS SP. UROPHYCIS REGIUS SCOMBER JAPONICUS	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	1	1	99.9	TL					0.3	
	1	1	68.5	TL					0.3	
	1	1	12.5	TL					0.3	
					1	1	10.4	SL	0.3	
	1	1	6.1	NL					0.3	
					0	1	1	11.9 SL	0	
									0.3	0.0
L 1 C8 02 BREVOORTIA TYRANNUS ANCHOA MITCHILLI ADDITIONAL LARVAE CAUGHT	SAMPLING DEPTH 0-6M									
	6	6	22.3	17.0-29.1 TL					0.7	
	9	9	37.8	34.6-41.0 TL					1.1	
					ANGUILLA RESTRATA					

TABLE 3. (continued)

55

CRUISE DATE 066 1 1966 STA. D M SPECIES ANALYZED N 3 09 02	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
	TOTAL MEAS.	MEAN			TOTAL MEAS.	MEAN					
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M					
BREVOORTIA TYRANNUS	49	49	13.7	7.1-29.8	TL						14.8
DIAPHUS SP.	1	1	8.2		SL						0.3
UROPHYCIS SP.	2	2	2.5	2.1- 2.9	NL						0.6
UROPHYCIS REGIUS	1	1	22.3		NL						0.3
LEICSTOMUS XANTHURUS	92	51	7.4	4.3-10.5	SL						27.9
MICROPOGON UNULATUS	7	7	6.1	4.6- 6.8	SL						2.1
ETRCPIUS MICROSTOMUS	3	3	7.4	4.2- 9.6	SL						0.9
PARALICHTHYS DENTATUS	6	6	7.0	3.8- 9.7	SL					0	1.8
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					SYNGONOTIDAE					
	SERRANICAE					PARALEPIDICAE					
	SPARIDAE					BREGMACEROTICAE					
	GOBIIDAE					OPHIDIIDAE					
	SCORPAENICAE					SERRANICAE					
	UNIDENTIFIED					CARANGICAE					
.....											
N 4 09 02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M					
OPHICHTHYS MELANOPORUS						1	1	40.3		NL	0.3
ETRUMEUS SADIANA	4	4	9.8	8.4-12.0	TL	3	3	5.7	9.2-10.4	TL	2.2
ENGRANULIS EURYSTOLE	1	1	19.0		TL	1	1	10.5		TL	0.6
MYCTOPHIDAE	6	6	5.1	3.8- 5.8	SL						2.0
BENTHOSOMA SUBORBITALE	1	1	6.6		SL						0.3
CERATOSCOPELUS MADERENSIS	3	3	8.5	6.9-10.4	SL						1.2
DIAPHUS SP.	1	1	8.9		SL	1	1	5.8		SL	0.6
ODICEVICHTHYS ATLANTICUS						1	1	6.3		SL	0.3
ELECTRONA RISSEI						1	1	5.1		SL	0.3
HYGOPHUM BENEDICTI OR HYGOMI						1	1	5.6		SL	1.0
LAMFANYCTUS ALATUS OR PHOTONOTUS	3	3	4.3	3.2- 6.1	SL	3	3	7.3	6.0- 7.5	SL	1.2
MYCTOPHUM SP.	1	1	4.1		SL	1	1	4.8		SL	0.3
NICTOSCOPELUS SP.	2	2	5.8	5.7- 6.0	SL						0.7
NICTOSCOPELUS RESPLENDENS	1	1	4.5		SL	1	1	6.5		SL	0.6
UROPHYCIS SP.						12	11	3.2	2.5- 4.1	NL	4.0
UROPHYCIS REGIUS	4	4	2.3	1.6- 3.6	NL	2	1	4.8		NL	1.9
HEMANTHIAS VIVIANUS	3	2	4.6	4.6- 4.7	SL	1	1	4.1		SL	1.2
PCMATOMUS SALTATRIX	1	1	8.7		SL						0.3
LEICSTOMUS XANTHURUS	10	10	4.4	3.9- 5.2	SL	12	12	5.5	4.1- 7.9	SL	7.0
MICROPOGON UNULATUS	5	5	4.7	3.8- 5.7	SL	1	1	5.2		SL	1.8
PEPRILUS TRIACANTHUS	8	8	3.3	1.7- 4.7	SL						2.7
BOTIUS OCCELLATUS	5	5	6.3	4.2- 9.4	SL	1	1	7.2		SL	1.8
ETRCPIUS MICROSTOMUS	13	13	4.8	3.2- 9.8	SL	19	19	4.7	3.1- 6.0	SL	10.2
PARALICHTHYS DENTATUS	3	3	4.2	3.2- 5.2	SL	2	2	3.6	3.3- 4.0	SL	1.6
SYMPHURUS SP.	3	3	6.0	5.6- 6.5	SL	2	2	6.9	6.7- 7.0	SL	1.6
ADDITIONAL LARVAE CAUGHT	OPHICHTHICAE					SYNGONOTIDAE					
	NETTASTOMATICAE					PARALEPIDICAE					
	STOMIATICAE					BREGMACEROTICAE					
	SYNGONOTICAE					OPHIDIIDAE					
	PARALEPIDICAE					SERRANICAE					
	BREGMACEROTICAE					CARANGICAE					
	OPHIDIICAE					SPARICAE					
	SERRANICAE					LABRIDAE OR SCARICAE					
	CARANGICAE					GOBIIDAE					
	SPARIDAE					TRICHRURICAE					
	LABRIDAE OR SCARIDAE					SCORPAENICAE					
	MUGILICAE					BALISTIDAE					
	CALLIONYMICAE					TETRAODONTICAE					
	GOBIIDAE					UNIDENTIFIED					
	GEMPYLICAE										
	SCORPAENICAE										
	BALISTICAE										
	TETRAODONTICAE										
	UNIDENTIFIED										

TABLE 3. (continued)

56

CRUISE DATE C66 I 1966 STA. D M SPECIES ANALYZED N 5 (9 02)	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M ² EGGS
	NUMBER	LENGTHS (MM)		MEAS.	RANGE		NUMBER	LENGTHS (MM)		MEAS.	RANGE	
BREVOORTIA TYRANNUS	15	15	11.9	5.7-17.5	TL		6	6	11.5	8.6-13.4	TL	6.5
ETRIMEUS SADIKA												3.7
CERATOSCOPELUS WAMMINGI	11	11	9.9	5.8-14.5	TL							0.3
DIAPHUS SP.							1	1	8.5		SL	0.3
HYGOPHUM HYGOMI							1	1	6.8		SL	0.3
MYCTOPHUM AFFINE							1	1	5.8		SL	0.3
NOTOLYCHNUS VALDIVIAE							1	1	5.5		SL	0.3
NOTOSCOPELUS SP.	1	1	7.9		SL							0.3
EACHELYOPUS CIMBRIVS	1	1	2.4		SL	0						0.3
UROPHYCIS SP.	19	15	2.7	1.5-4.0	NL		9	9	2.7	2.0-3.2	NL	8.7
HEMANTHIAS VIVANUS							1	1	5.1		SL	0.3
PLECTRANTHIAS GARMUFELLUS	1	1	4.5		SL							0.3
LEICSTOMUS XANTHURUS	3	3	4.9	4.6-5.1	SL		3	3	5.6	4.7-7.3	SL	1.9
MICROPYGON UNULATUS	2	2	4.8	4.5-5.1	SL		1	1	5.3		SL	0.9
PRIONOTUS CAROLINUS	3	3	6.3	5.5-7.8	SL		2	2	5.6	5.3-5.9	SL	1.6
BETHUS OCELLATUS	2	2	7.7	7.5-7.9	SL		2	2	7.3	5.7-8.8	SL	1.3
ETRECPUS MICROSTOMUS	6	6	4.3	3.5-5.3	SL		9	9	4.3	3.3-5.7	SL	4.8
PARALICHTHYS DENTATUS	6	6	5.1	3.7-6.9	SL	0	3	3	4.7	3.8-6.4	SL	2.8
SYMPHURUS SP.	2	2	7.2	6.7-7.6	SL		1	1	6.4		SL	0.9
ADDITIONAL LARVAE CAUGHT	MURAENIDAE						MORINGUICAE					
	OPHICHTHIDAE						CONGRIDAE					
	SYNODONTIDAE						STOMIATIDAE					
	PARALEPIDIDAE						SYNODONTIDAE					
	BREGMACEFOTIDAE						PARALEPIDIDAE					
	CPHIDIIDAE						LOPHIIFORMES					
	SPARIDAE						BREGMACEROTIDAE					
	LABRIDAE OR SCARIDAE						CARAPIDAE					
	MUGILIDAE						SERRANIDAE					
	CALLIONYMIDAE						GRAMMISTIDAE					
	GOBIIDAE						APOGONIDAE					
	SCORPAENICAE						CARANGIDAE					
	TRIGLICAE						SPARIDAE					
	BALISTICAE						LABRIDAE OR SCARIDAE					
	UNIDENTIFIED						GOBIIDAE					
							SCORPAENICAE					
							UNIDENTIFIED					
.....												
P 1 (9 02)	SAMPLING DEPTH 0-6M											
CALTECHELYS PERRYAE	1	1	67.0		NL							0.1
MYROPHIS PUNCTATUS	1	1	67.0		TL							0.1
BREVOORTIA TYRANNUS	3	3	14.9	13.6-17.3	TL							0.4
LEICSTOMUS XANTHURUS	8	8	13.2	12.0-14.7	SL							1.0
MICROPYGON UNULATUS	3	3	10.1	9.6-10.9	SL							0.4
SCORPALTHUS AQUOSUS	2	2	5.5	3.2-7.7	SL							0.2
ADDITIONAL LARVAE CAUGHT	SPARIDAE											
.....												
P 2 (9 02)	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	9	9	21.1	14.6-26.6	TL							1.1
LEICSTOMUS XANTHURUS	12	12	12.4	10.1-14.2	SL							1.5
PARALICHTHYS DENTATUS	1	1	3.8		SL	0						0.1
ADDITIONAL LARVAE CAUGHT	SPARIDAE											
	UNIDENTIFIED											
.....												
P 3 (9 02)	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	108	108	14.8	6.5-23.9	TL							13.1
FAGFAJLIS EURYSTOLE	1	1	30.8		TL							0.1
LEICSTOMUS XANTHURUS	17	17	10.5	7.0-13.8	SL							2.1
ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE											
	SPARIDAE											
	UNIDENTIFIED											
.....												
P 4 (9 02)	SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS	45	44	12.6	7.1-17.9	TL							13.6
CERATOSCOPELUS MANEFENSIS	1	1	5.9		SL							0.3
UROPHYCIS SP.	20	17	5.0	3.2-9.0	NL							6.1
LEICSTOMUS XANTHURUS	18	18	6.0	4.3-10.3	SL							5.5
MICROPYGON UNULATUS	4	4	5.5	3.9-6.6	SL							1.2
PEPRILUS TRICANTHUS	2	2	4.3	3.0-5.6	SL							0.6
ETRECPUS MICROSTOMUS	6	6	6.4	5.3-7.7	SL							1.8
PARALICHTHYS DENTATUS	6	6	4.4	3.8-5.0	SL	0						1.8
ADDITIONAL LARVAE CAUGHT	BREGMACEFOTIDAE											
	SERRANIDAE											
	CARANGIDAE											
	SPARIDAE											
	UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE 066 1 1966 STA. 0 M P 5 09 02	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	NO. EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	RANGE	NO. EGGS		
OPHICHTHUS OCELLATUS												
BREVOORTIA TYRANNUS	21	21	10.1	7.0-16.0	TL	1	1	38.0		TL	0.3	
BENTHOSEMA SUDRITALE						5	5	10.5	6.5-15.4	TL	8.0	
CERATOSCOPELLE MADEFENSIS	1	1	6.1		SL	1	1	6.3		SL	0.3	
CERATOSCOPELUS WARMINGI	1	1	5.0		SL						0.3	
DIARHUS SP.	1	1	7.1		SL						1.0	
HYGOPHUM BENOITI OR HYGOMI						1	1	5.5		SL	0.3	
NETCLOCYCHNUS VALDIVIAE						2	2	5.7	5.2-6.3	SL	0.7	
NETCSCOPELUS SP.	1	1	6.5		SL	4	4	6.3	5.8-7.1	SL	1.6	
NETCSCOPELUS RESPONDENS						2	2	5.7	5.2-6.2	SL	0.7	
UFOPHYCIS SP.	8	6	2.0	1.7-2.5	NL	2	2	2.7	2.5-2.9	NL	3.1	
FEMANTHIAS VIWANUS	5	4	3.3	2.8-3.8	SL	1	1	3.9		SL	1.8	
PLECTRANTHIAS GARMUFELLUS						2	2	4.7	4.5-4.9	SL	0.7	
LEICSTOMUS XANTHOMUS	10	10	4.2	3.4-5.4	SL	2	2	5.3	5.2-5.4	SL	3.7	
MICROPOGON UNIJLATUS	3	3	3.7	3.4-4.2	SL	1	1	6.5		SL	1.2	
ALXIS SP.						1	1	9.5		SL	0.3	
BCTHUS OCELLATUS	3	3	4.1	3.8-4.4	SL	1	1	7.4		SL	1.2	
ETREPOS MICROSTOMUS	3	3	4.2	4.1-4.3	SL	6	6	4.5	3.9-5.5	SL	2.9	
PARALICHTHYS DENTATUS	3	3	4.5	4.1-4.9	SL						1.0	1.3
ADDITIONAL LARVAE CAUGHT												
					OPHICHTHICAE							
					MYCTOPHILAE							
					OPHIDIICAE							
					SERRANICAE							
					SPARIDAE							
					MUGILIDAE							
					CALLIONYMICAE							
					GOBIIDAE							
					SCORPAENIDAE							
					UNIDENTIFIED							
						MURAENIDAE						
						OPHICHTHICAE						
						NETTASTOMATICAE						
						SYNOBONTICAE						
						BREGMACEROTIDAE						
						OPHIDIIDAE						
						SERRANIDAE						
						SPARIDAE						
						LABRIDAE, OR SCARICAE						
						CALLIONYMIDAE						
						GOBIIDAE						
						GEMPYLIDAE						
						SCORPAENIDAE						
						TRIGLIDAE						
						UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
		NUMBER	LENGTHS (MM)				NUMBER	LENGTHS (MM)				
A 1 C6 04		SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	6	6	34.7	31.1-29.9 TL						0.7	
	GADUS MORHUA	1	1	6.2	ML	0					0.1	0.0
	AMMODYTES SP.	13	13	15.3	8.2-28.7 TL						1.6	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE										
.....												
A 2 C6 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	7	7	35.0	30.0-38.4 TL						2.1	
	GADUS MORHUA	6	6	5.9	4.3- 7.4 NL	1					1.8	0.3
	AMMODYTES SP.	18	15	23.8	8.9-47.4 TL						5.5	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE BLENNIIDAE COTTIDAE										
.....												
A 3 C6 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	22	22	35.0	27.9-41.5 TL		2	2	31.5	31.1-31.9 TL	0	7.3
	GADUS MORHUA	1				7					0.3	2.3
	AMMODYTES SP.	27	27	16.6	5.5-39.7 TL		20	19	15.0	5.6-28.7 TL		14.8
	PSEUDOPLEURONECTES AMERICANUS	6	4	3.9	3.4- 4.2 SL						2.0	
	ADDITIONAL LARVAE CAUGHT	COTTIDAE					PHOLIDAE COTTIDAE					
.....												
A 4 C6 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	5	5	36.3	34.9-38.5 TL		6	6	32.9	30.3-37.6 TL	0	3.5
	GADUS MORHUA	3	3	5.2	4.6- 5.9 NL	8					1.0	2.7
	AMMODYTES SP.	10	10	19.4	9.3-29.8 TL		35	35	21.5	10.9-34.4 TL		14.7
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE					BLENNIIDAE PHOLIDAE COTTIDAE					
.....												
A 5 C7 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	1	1	29.5	TL		6	6	31.5	29.0-34.2 TL		2.3
	AMMODYTES SP.	1	1	18.5	TL		2	2	17.5	13.5-21.6 TL		1.0
	ADDITIONAL LARVAE CAUGHT	COTTIDAE					BLENNIIDAE COTTIDAE					
.....												
A 6 C7 C4		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	AMMODYTES SP.	5	5	22.3	15.5-35.5 TL							1.7
.....												
A 7 C7 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	3	3	31.5	28.6-34.0 TL		4	4	32.8	32.1-33.9 TL	0	2.2
	GADUS MORHUA	1	1	29.9	SL	0					0.3	0.0
	AMMODYTES SP.	73	70	20.6	13.4-31.3 TL		23	23	21.6	16.9-40.1 TL		29.6
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE UNIDENTIFIED					BLENNIIDAE					
.....												
B 1 C7 04		SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M					
	AMMODYTES SP.	11	10	13.9	6.8-26.0 TL						1.3	
	PSEUDOPLEURONECTES AMERICANUS	6	4	4.1	3.5- 4.9 SL						0.7	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE										
.....												
B 2 C7 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	GADUS MORHUA	5	2	5.9	4.3- 7.5 NL	1					1.5	0.3
	AMMODYTES SP.	10	10	13.9	7.6-22.9 TL						3.0	
	LIMANDA FERRUGINEA	7	7	3.7	3.5- 3.9 SL						2.1	
	PSEUDOPLEURONECTES AMERICANUS	73	25	3.5	3.0- 4.2 SL						22.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COTTIDAE UNIDENTIFIED										
.....												
B 3 C7 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	ENCHELYOPLS CIMBRIUS					0					1	0.0
	GADUS MORHUA	4	4	15.6	4.2-47.6 SL	1	3	1	5.4	SL	0	2.2
	MELANOGRAMMUS AEGEFINUS					0					1	0.0
	AMMODYTES SP.	4	4	14.2	12.8-15.7 TL		1	1	15.6	TL		1.5
	CITTAICHTHYS ARCTIFRONS	1										0.3
	LIMANDA FERRUGINEA	4	3	3.8	3.5- 4.2 SL							1.3
	PSEUDOPLEURONECTES AMERICANUS	76	13	4.0	3.2- 5.4 SL							25.3
	ADDITIONAL LARVAE CAUGHT	COTTIDAE UNIDENTIFIED					PHOLIDAE COTTIDAE					

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M	EGGS	
B 4	07	04	TOTAL MEAS.	RANGE MEAS.	EGGS	TOTAL MEAS.	RANGE MEAS.	EGGS	LARVAE		
			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		CLUPEA HARENGUS HARENGUS	2	2 33.7 32.3-35.2 TL						0.7	
		ENCHELIOPOUS CIMBRIUS			0				3	0.0	1.0
		GADUS MORHUA			11				3	0.0	4.3
		MELANOGRAMMUS AEGLEFINUS			0				4	0.0	1.3
		AMMOCYTES SP.	6	6 19.6 14.2-23.5 TL		3	3 21.2 18.1-25.9 TL			2.8	
ADDITIONAL LARVAE CAUGHT			COTTIDAE			COTTIDAE					
.....											
B 5	07	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		ENCHELIOPOUS CIMBRIUS			1				1	0.0	0.6
		GADUS MORHUA			2				2	0.0	1.3
		MELANOGRAMMUS AEGLEFINUS			1				0	0.0	0.3
		POLLACHIUS VIRENS	1	1 8.7	NL				0	0.3	0.0
		AMMOCYTES SP.	9	9 15.9 11.9-18.1 TL		3	3 23.6 16.9-36.5 TL			3.7	
		LIMANDA FERRUGINEA	1	1 6.4	SL					0.3	
ADDITIONAL LARVAE CAUGHT			BLENNIIDAE			BLENNIIDAE			COTTIDAE		
.....											
B 6	07	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		ENCHELIOPOUS CIMBRIUS			1				0	0.0	0.3
		GADUS MORHUA			1				0	0.0	0.3
		MELANOGRAMMUS AEGLEFINUS			1				0	0.0	0.3
		AMMOCYTES SP.	11	11 18.4 13.6-22.5 TL		12	12 15.5 10.5-20.5 TL			7.3	
ADDITIONAL LARVAE CAUGHT			BLENNIIDAE			COTTIDAE					
.....											
B 7	07	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		CERATOSCOPELUS WARMINGI				21	21 3.3 2.4-6.1 SL			7.0	
		AMMOCYTES SP.	19	19 22.4 13.9-34.1 TL		4	4 16.3 14.4-19.6 TL			7.0	
		LIMANDA FERRUGINEA	2							0.7	
ADDITIONAL LARVAE CAUGHT			UNIDENTIFIED			UNIDENTIFIED					
.....											
C 1	08	04	SAMPLING DEPTH 0-15M								
		GADUS MORHUA			1					0.0	0.3
		AMMOCYTES SP.	3	3 16.8 4.2-39.0 TL						0.9	
		LIMANDA FERRUGINEA	19	16 4.0 2.9-5.3 SL						5.8	
		PSEUDOPLEURONECTES AMERICANUS	7	6 3.7 3.3-4.2 SL						2.1	
ADDITIONAL LARVAE CAUGHT			BLENNIIDAE			PHOLIDAE			COTTIDAE		
.....											
C 2	08	04	SAMPLING DEPTH 0-15M								
		POLLACHIUS VIRENS	1	1 16.1	SL	0				0.3	0.0
		AMMOCYTES SP.	6	6 37.8 31.5-42.8 TL						1.8	
		LIMANDA FERRUGINEA	6	4 3.7 3.2-4.3 SL						1.8	
		PSEUDOPLEURONECTES AMERICANUS	9	9 3.9 3.3-4.6 SL						2.7	
ADDITIONAL LARVAE CAUGHT			BLENNIIDAE			PHOLIDAE			COTTIDAE		
.....											
C 3	08	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-24M					
		CLUPEA HARENGUS HARENGUS	1	1 34.0	TL					0.3	
		POLLACHIUS VIRENS	2	2 13.8 12.5-15.0 SL		0	1 1 7.9	NL	0	0.8	0.0
		AMMOCYTES SP.	3	3 25.6 9.1-34.6 TL			5 5 27.2 9.2-34.0 TL			1.7	
		LIMANDA FERRUGINEA	8	6 4.4 4.0-4.7 SL			16 15 4.1 3.7-5.2 SL			5.0	
		PSEUDOPLEURONECTES AMERICANUS	1	1 5.2	SL		11 10 4.1 3.4-4.9 SL			2.1	
ADDITIONAL LARVAE CAUGHT			BLENNIIDAE			BLENNIIDAE			PHOLIDAE		
			SCORPAENIDAE			COTTIDAE			UNIDENTIFIED		
.....											
C 4	08	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		ENCHELIOPOUS CIMBRIUS			0	1	1 4.9	NL	0	0.3	0.0
		GADUS MORHUA			4	2	2 6.1 4.6-7.7	NL	2	0.7	1.9
		POLLACHIUS VIRENS	1	1 4.6	NL	0			0	0.3	0.0
		AMMOCYTES SP.				1	1 35.0	TL		0.3	
		LIMANDA FERRUGINEA	84	25 4.1 3.2-5.2 SL		63	25 3.9 3.1-4.9 SL			46.2	
ADDITIONAL LARVAE CAUGHT			COTTIDAE			BLENNIIDAE					
.....											
C 5	08	04	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		ENCHELIOPOUS CIMBRIUS			0	1	1 3.4	SL	0	0.3	0.0
		GADUS MORHUA			4	1	1 4.2	SL	2	0.3	1.5
		AMMOCYTES SP.	2	2 25.5 22.5-28.6 TL		2	2 15.8 17.7-21.9 TL			1.3	
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1 6.4	SL					0.3	
		LIMANDA FERRUGINEA	75	24 4.1 3.3-5.2 SL		75	25 4.4 3.5-6.2 SL			47.5	

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****					***** LARVAE *****						
D66 3 1966	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.		NO. PER 100	2
STA. D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS
C 6 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	2	1	4.4	SL	3	1	1	4.6	SL	0	0.9	1.0
AMMODYTES SP.	1	1	19.2	TL							0.3	
GLYPTOCEPHALUS CYMOGLOSSUS						3	2	5.2 5.4-6.2	SL		1.0	
LIMANDA FERRUGINEA	45	25	4.2 3.3-6.8	SL		12	11	5.2 3.8-7.4	SL		23.5	
PSEUDOPLEURONECTES AMERICANUS						1	1	5.6	SL		0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					BLENNIIDAE						
C 7 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA					1					0	0.0	0.3
AMMODYTES SP.	1	1	23.7	TL							0.3	
LIMANDA FERRUGINEA	2	1	5.7	SL							0.7	
C 8 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.	2	2	17.9 16.3-19.6	TL		2	2	25.3 22.3-28.4	TL		1.3	
C 1 (R 04)	SAMPLING DEPTH 0-6M											
AMMODYTES SP.	8	8	21.8 7.7-41.3	TL							1.0	
PSEUDOPLEURONECTES AMERICANUS	602	25	3.8 3.2-4.3	SL							13.0	
ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE											
	PHOLIDAE											
	COTTIDAE											
	UNIDENTIFIED											
D 2 (R 04)	SAMPLING DEPTH 0-6M											
AMMODYTES SP.	6	6	30.9 24.9-38.6	TL							0.7	
GLYPTOCEPHALUS CYMOGLOSSUS	1	1	4.9	SL							0.1	
LIMANDA FERRUGINEA	2	2	4.2 3.4-5.0	SL							0.2	
PSEUDOPLEURONECTES AMERICANUS	210	25	3.7 3.2-4.3	SL							25.5	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	PHOLIDAE											
	UNIDENTIFIED											
C 3 (R 04)	SAMPLING DEPTH 0-15M											
ENCYLIOPUS CIMBRIUS					1						0.0	0.3
AMMODYTES SP.	4	4	31.3 28.6-34.1	TL							1.2	
LIMANDA FERRUGINEA	15	13	3.6 2.9-4.3	SL							4.5	
PSEUDOPLEURONECTES AMERICANUS	9	9	3.8 2.9-4.6	SL							2.7	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
D 4 (R 04)	SAMPLING DEPTH 0-15M											
GADUS MORHUA	2	2	3.9 3.7-4.1	SL	6						0.6	1.8
LIMANDA FERRUGINEA	14	13	4.3 3.5-5.7	SL							4.2	
PSEUDOPLEURONECTES AMERICANUS	7	6	5.3 4.8-6.0	SL							2.1	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	PHOLIDAE											
	UNIDENTIFIED											
C 5 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCYLIOPUS CIMBRIUS	1	1	4.6	SL	1					0	0.3	0.3
GADUS MORHUA	3	3	5.2 4.0-5.9	SL	12	1	1	5.6	SL	12	1.2	7.6
AMMODYTES SP.	2	2	16.5 9.8-23.3	TL							0.7	
LIPARIS INQUILINUS	1	1	44.0	TL		1	1	3.8	TL		0.6	
GLYPTOCEPHALUS CYMOGLOSSUS						1	1	4.7	SL		0.3	
LIMANDA FERRUGINEA	30	20	4.0 2.7-5.8	SL		17	13	3.8 3.0-4.8	SL		14.7	
PSEUDOPLEURONECTES AMERICANUS						2	2	4.6 4.3-4.9	SL		0.7	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
C 6 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
CLUFFA HARENGUS HARENGUS	1	1	30.7	TL							0.3	
GADUS MORHUA					6	3	3	4.1 3.3-5.2	SL	3	1.0	2.8
POLLACHIUS VIRENS					0	1	1	4.1	SL	0	0.3	0.0
AMMODYTES SP.	1	1	44.1	TL							0.3	
GLYPTOCEPHALUS CYMOGLOSSUS						2	2	5.0 4.6-5.4	SL		0.7	
LIMANDA FERRUGINEA	59	25	4.3 3.3-6.3	SL		47	25	3.6 2.7-5.6	SL		33.4	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
D 7 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
D 8 (R 04)	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIAE					2	2	6.5 6.1-6.9	SL			0.7	
ADDITIONAL LARVAE CAUGHT	PARALEPICIAE					UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
		NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
E 1 13 04	PCLLACHIUS VIRENS AMMODYTES SP. PSEUDOPLEURONCTES AMERICANUS	2 20 13	1 20 13	12.1 36.7 4.4	SL 21.3-45.5 TL 3.9- 4.9 SL	0					0.2 2.4 1.6	0.0
	ADDITIONAL LARVAE CAUGHT	ANGUILLA RESTRATA BLENNIICAE PHOLIDAE COTTIDAE										
.....												
E 2 13 04	AMMODYTES SP. PSEUDOPLEURONCTES AMERICANUS	26 34	26 25	37.5 4.2	22.2-48.2 TL 3.2- 5.4 SL						3.2 4.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										
.....												
F 3 22 04	AMMODYTES SP.	3	3	41.6	31.8-50.0 TL						0.9	
	ADDITIONAL LARVAE CAUGHT	ANGUILLA RESTRATA BLENNIICAE										
.....												
E 4 22 04	ENCHELYOPUS CIMBRIUS GADUS MORHUA GLYPTOCEPHALUS CYNOGLOSSUS LIMANDA FERRUGINEA	1 5 15 353	1 4 8 25	2.0 4.0 5.1 3.8	SL 3.4- 4.8 SL 4.2- 6.0 SL 2.7- 5.3 SL	0 6					0.3 1.7 6.2 162.4	0.0 1.5
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SAMPLING DEPTH 18-24M 0 1 1 8.0 SL 0 10 5 5.5 5.0- 6.5 SL 334 25 3.8 2.9- 5.3 SL					
							Gobiidae UNIDENTIFIED					
.....												
E 5 22 04	GADUS MORHUA AMMODYTES SP. GLYPTOCEPHALUS CYNOGLOSSUS LIMANDA FERRUGINEA	2 255	2 25	6.0 4.1	5.9- 6.0 SL 3.0- 5.8 SL	0					0.2 0.2 1.1 117.1	0.2
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SAMPLING DEPTH 18-24M 1 1 4.1 SL 1 1 1 24.4 TL 3 3 5.9 5.0- 5.9 SL 240 25 4.6 3.3- 7.2 SL					
.....												
E 6 22 04	ENCHELYOPUS CIMBRIUS GADUS MORHUA LIMANDA FERRUGINEA	59	25	3.8	3.0- 5.6 SL	0 0					0.3 0.3 38.0	0.0 0.0
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SAMPLING DEPTH 18-33M 1 1 3.3 SL 0 1 1 3.9 SL 0 61 25 4.7 3.3- 6.7 SL					
							UNIDENTIFIED					
.....												
E 7 22 04	ENCHELYOPUS CIMBRIUS GLYPTOCEPHALUS CYNOGLOSSUS LIMANDA FERRUGINEA	17	17	4.8	3.3- 7.7 SL	1					0.0 0.7 14.4	1.6
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SAMPLING DEPTH 18-33M 2 2 5.7 4.7- 6.7 SL 28 24 4.3 3.3- 5.4 SL					
.....												
E 8 22 04	ENCHELYOPUS CIMBRIUS LIMANDA FERRUGINEA	1	1	6.1	SL	0					0.3 0.3	0.0
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SAMPLING DEPTH 18-33M UNIDENTIFIED					
.....												
F 1 14 04	GLYPTOCEPHALUS CYNOGLOSSUS PSEUDOPLEURONCTES AMERICANUS	1 199	1 25	5.0 4.2	SL 3.0- 5.6 SL						0.1 24.1	
	ADDITIONAL LARVAE CAUGHT	PHOLIDAE COTTIDAE										
.....												
F 2 14 04	ENCHELYOPUS CIMBRIUS AMMODYTES SP. LIMANDA FERRUGINEA PSEUDOPLEURONCTES AMERICANUS	1 4 4 210	1 4 4 25	3.9 29.1 4.0 4.2	SL 25.8-31.0 TL 2.9- 4.5 SL 3.3- 6.3 SL	0					0.1 0.5 0.5 25.5	0.0
	ADDITIONAL LARVAE CAUGHT	BLENNIICAE COTTIDAE UNIDENTIFIED										
.....												
F 3 14 04	GADUS MORHUA AMMODYTES SP. PSEUDOPLEURONCTES AMERICANUS	5 37	5 19	24.7 4.1	20.9-32.9 TL 3.0- 5.8 SL	1					0.0 1.5 11.2	0.3
	ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	NO. PER 10M EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
H 1 15 04	SAMPLING DEPTH 0-6M										
GLYPTOCEPHALUS CYNOGLOSSUS	1									0.1	
PSEUDOPLEURONECTES AMERICANUS	10	9	5.0	3.4-7.0 SL						1.2	
H 2 15 04	SAMPLING DEPTH 0-15M										
GADUS MORHUA	1	1	3.5	SL	0					0.3	C.C
AMMOCYTES SP.	1	1	32.0	TL						0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.1	SL						0.3	
PSEUDOPLEURONECTES AMERICANUS	22	22	5.3	3.7-7.0 SL						6.7	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
H 3 15 04	SAMPLING DEPTH 0-15M										
GADUS MORHUA	2	1	3.5	SL	2					0.6	0.6
AMMOCYTES SP.	1	1	30.4	TL						0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	1									0.3	
LIMANDA FERRUGINEA	3	2	3.6	3.5-3.6 SL						0.9	
PSEUDOPLEURONECTES AMERICANUS	21	21	4.9	3.7-6.7 SL						6.4	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE											
H 4 15 04	SAMPLING DEPTH 0-15M										
GADUS MORHUA					6					0.0	1.8
LIMANDA FERRUGINEA	3	3	5.7	3.9-9.0 SL						0.9	
PSEUDOPLEURONECTES AMERICANUS	4	4	5.0	4.2-6.0 SL						1.2	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
H 5 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
GADUS MORHUA					0					1	0.0
AMMOCYTES SP.	1	1	40.2	TL							0.2
GLYPTOCEPHALUS CYNOGLOSSUS						2	1	6.0	SL		0.3
LIMANDA FERRUGINEA	51	25	4.5	3.5-5.9 SL		93	25	4.0	2.9-5.4 SL		30.7
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
						BLENNIIDAE UNIDENTIFIED					
H 6 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
GADUS MORHUA	1	1	5.9	SL	0					0	0.3
POLLACHIUS VIRENS	1	1	27.9	SL	0					0	0.3
AMMOCYTES SP.	7	7	26.1	21.4-37.5 TL		3	3	33.1	26.9-37.3 TL		3.1
GLYPTOCEPHALUS CYNOGLOSSUS	2	2	5.8	5.4-6.2 SL		1					0.9
LIMANDA FERRUGINEA	51	25	4.8	3.4-6.9 SL		41	6	5.6	3.9-8.2 SL		29.0
ADDITIONAL LARVAE CAUGHT ANGUILLA FOSTRATA UNIDENTIFIED											
H 7 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
AMMOCYTES SP.	23	21	29.6	22.2-41.3 TL		2	2	29.0	26.0-32.1 TL		7.7
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	5.6	SL		0.3
LIMANDA FERRUGINEA	2	2	5.5	5.2-5.7 SL		2	2	4.6	4.4-4.8 SL		1.3
ADDITIONAL LARVAE CAUGHT TETRAODONTICAE UNIDENTIFIED											
J 1 19 04	SAMPLING DEPTH 0-6M										
SCOPHTHALMUS AQUOSUS	2	2	3.7	3.4-3.9 SL							0.2
PSEUDOPLEURONECTES AMERICANUS	1	1	8.2	SL							0.1
J 2 19 04	SAMPLING DEPTH 0-6M										
SCOPHTHALMUS AQUOSUS	3	3	3.4	3.2-3.9 SL							0.4
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
J 3 16 04	SAMPLING DEPTH 0-6M										
BREVIDOR TIA TYRANNUS	1	1	29.4	TL							0.1
AMMOCYTES SP.	1	1	35.5	TL							0.1
J 4 16 04	SAMPLING DEPTH 0-6M										
J 5 16 04	SAMPLING DEPTH 0-15M										
GLYPTOCEPHALUS CYNOGLOSSUS	3	3	5.6	5.2-5.8 SL							0.9
LIMANDA FERRUGINEA	3	2	4.8	4.2-5.4 SL							0.9
J 6 16 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
GADUS MORHUA					0	1	1	6.5	SL	0	0.2
AMMOCYTES SP.	4	4	35.6	33.2-39.5 TL							1.3
J 7 16 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
AMMOCYTES SP.	6	6	28.7	25.9-31.1 TL		8	8	28.3	24.2-35.8 TL		4.5
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.4	SL		1					0.6
LIMANDA FERRUGINEA	5	4	5.2	4.5-6.0 SL							1.7

TABLE 3. (continued)

CRUISE DATE	STA. NO.	SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				NO. PER 10 ² LARVAE	NO. EGGS		
			NUMBER	LENGTHS (MM)	NO.	MEAS. EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS. EGGS				
D66 3 1966			TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS		
K 1 19 04		BREVORTIA TYRANNUS	2	27.3	25.3-29.3	TL							0.2	
K 2 19 04			SAMPLING DEPTH 0-15M											
K 3 19 04			SAMPLING DEPTH 0-15M											
K 4 19 04		LIMANDA FERRUGINEA	1	6.7		SL							0.3	
K 5 19 04			SAMPLING DEPTH 0-15M											
		AMMOYTES SP.	1	39.6		TL		SAMPLING DEPTH 18-24M				0.2		
		GLYPTOCEPHALLUS CYNOGLOSSUS	2	5.8	4.6-6.9	SL		2	5.8	5.5-5.5	SL		0.3	
		LIMANDA FERRUGINEA	2	5.5	5.5-5.5	SL		2	5.5	5.5-5.5	SL		1.6	
		ADDITIONAL LARVAE CAUGHT	ELENNIICAE											
K 6 19 04			SAMPLING DEPTH 0-15M											
		LIMANDA FERRUGINEA	4	5.9	5.4-6.2	SL		SAMPLING DEPTH 18-33M				3.5		
			7	5.8	5.5-6.4	SL								
K 7 19 04			SAMPLING DEPTH 0-15M											
		LIMANDA FERRUGINEA	3	6.1	5.0-7.2	SL		SAMPLING DEPTH 18-33M				1.0		
L 1 20 04			SAMPLING DEPTH 0-6M											
		BREVORTIA TYRANNUS	1	25.0		TL							0.1	
		SCOPHTHALMUS AQUOSUS	3	3.2	3.0-3.7	SL							0.4	
L 2 20 04			SAMPLING DEPTH 0-6M											
		SCOPHTHALMUS AQUOSUS	1	3.1		SL							0.1	
L 3 20 04			SAMPLING DEPTH 0-15M											
		SCOPHTHALMUS AQUOSUS	1	3.2		SL		SAMPLING DEPTH 18-24M				0.3		
L 4 20 04			SAMPLING DEPTH 0-15M											
		GLYPTOCEPHALLUS CYNOGLOSSUS	1	8.0		SL		SAMPLING DEPTH 18-33M				0.3		
		LIMANDA FERRUGINEA	1	3.8		SL		1	3.8		SL		0.3	
L 5 20 04			SAMPLING DEPTH 0-15M											
		LIMANDA FERRUGINEA	1	11.2		SL		SAMPLING DEPTH 18-33M				0.3		
M 1 20 04			SAMPLING DEPTH 0-6M											
		BREVORTIA TYRANNUS	12	22.7	20.6-24.7	TL							1.5	
		PERILICHTHYS TRIACANTHUS	1	5.8		SL							0.1	
		SCOPHTHALMUS AQUOSUS	3	3.4	3.2-3.9	SL							0.4	
M 2 20 04			SAMPLING DEPTH 0-6M											
		SCOPHTHALMUS AQUOSUS	2	3.5	3.4-3.5	SL							0.2	
M 3 20 04			SAMPLING DEPTH 0-6M											
		PERILICHTHYS CAROLINUS	1	7.5		SL							0.1	
		PARALICHTHYS CENTATUS	2	8.4	8.2-8.7	SL	0						0.2	C.C
		ADDITIONAL LARVAE CAUGHT	SYNOODONTICAE GOBIIDAE											

TABLE 3. (continued)

CRUISE DATE 066 2 1966 STA. D M SPECIES ANALYZED # 4 20 04	***** LARVAE *****				***** LARVAE *****				NO. PER 10M ² LARVAE EGGS
	NUMBER	LENGTHS (MM)	NO.	NO.	NUMBER	LENGTHS (MM)	NO.	NO.	
	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	EGGS	
	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M				
OFFICHTHUS OCCELLATUS					2	26.1 23.5-28.7	TL	0.7	
ETRAEUS SADI NA					1	16.0	TL	0.3	
ANCINA MESPETUS	6	6 12.0 7.7-19.8	TL					2.0	
EAGFAULIS EURYSTOIE				1	1 12.9		TL	0.3	
CERATOSCOPELLUS MANERENSIS	4	4 5.3 4.4- 7.2	SL	5	5 5.8 5.1- 6.5		SL	2.9	
CERATOSCOPELLUS WAMMINGI	2	2 8.2 6.6- 9.8	SL	1	1 5.2		SL	0.9	
OTIATHUS SP.	4	2 5.2 4.3- 6.1	SL	1	1 8.3		SL	1.5	
HYGCPHUM BENOITI	1	1 7.5	SL	1	1 7.3		SL	0.6	
HYGCPHUM BENOITI OR HYGONI	1	1 5.7	SL	1	1 5.0		SL	0.6	
LAMPANYCTUS ATER	1	1 5.9	SL					0.3	
UFOPHYCIS SP.	2	2 3.6 2.8- 4.5	NL	3	3 3.8 3.7- 3.9		NL	1.6	
HEMANTHIA S VIVANUS	3	2 4.5 4.2- 4.8	SL					1.0	
AMMOCYTES SP.	2	2 30.6 17.1-44.2	TL					0.7	
PEPRILUS TRIACANTHUS	3	3 3.3 2.3- 4.4	SL	6	6 4.7 3.7- 6.8		SL	2.9	
BOTHUS OCCELLATUS	4	4 3.0 2.5- 3.5	SL	1	1 3.5		SL	1.5	
CITHARICHTHYS ARCTIFRONS	4	4 3.6 2.5- 4.3	SL	12	11 6.2 3.5- 8.2		SL	5.2	
ETREPIUS MICROSTOMUS	1	1 3.1	SL	1	1 5.9		SL	0.6	
SYACIUM PAPILLOSUM	3	3 3.8 3.5- 4.2	SL					1.0	
ADDITIONAL LARVAE CAUGHT	MURAENICAE			CYCLOTHONE SP.					
	CYCLOTHONE SP.			SYNDONOTICAE					
	SYNDONOTICAE			OPHIDIIDAE					
	BREGMACEFTICAE			SERRANIDAE					
	OPHIDIIDAE			LABRIDAE OR SCARIDAE					
	SERRANICAE			SCORPAENIDAE					
	SPARIDAE			TRIGLIDAE					
	GOBIDAE			UNIDENTIFIED					
	SCORPAENICAE								
	TRIGLIDAE								
	UNIDENTIFIED								
.....									
# 5 20 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M				
ETRAEUS SADI NA					6	8 7.7 4.6-11.8	TL	2.7	
EAGFAULIS EURYSTOIE					6	6 15.1 10.0-19.5	TL	2.0	
MYCTOPHIDAE	1	1 5.5	SL	5	4 5.4 4.6- 6.4		SL	2.0	
CERATOSCOPELLUS MANERENSIS	3	3 6.8 5.9- 8.4	SL	4	4 5.2 4.5- 6.1		SL	2.2	
HYGCPHUM BENOITI	1	1 7.6	SL	2	2 7.5 7.1- 8.0		SL	1.0	
LAMPANYCTUS SP.				2	2 4.7 4.5- 4.9		SL	0.7	
MYCTOPHUM AFFINE				3	3 5.9 5.1- 6.6		SL	1.0	
UFOPHYCIS SP.				2	2 3.8 3.5- 4.2		NL	0.7	
HEMANTHIA S VIVANUS	2	2 5.2 4.6- 5.8	SL					0.7	
LEICSTOMUS XANTHURUS				3	3 4.3 3.7- 5.1		SL	1.0	
PEPRILUS TRIACANTHUS	5	5 6.7 4.6- 9.4	SL	13	13 5.2 3.3- 6.8		SL	5.8	
PRICNOTUS CAROLINUS	2	2 5.5 5.7- 6.1	SL	2	2 5.6 5.3- 6.0		SL	1.3	
BOTHUS OCCELLATUS	1	1 3.7	SL	3	3 6.2 3.3-11.9		SL	1.3	
CITHARICHTHYS ARCTIFRONS				2	2 5.1 4.6- 5.5		SL	0.7	
ETREPIUS MICROSTOMUS				3	3 5.9 3.9- 7.7		SL	1.0	
SYMPHURUS SP.	4	4 11.7 10.0-12.5	SL	7	7 9.2 4.5-14.0		SL	3.5	
ADDITIONAL LARVAE CAUGHT	SYNDONOTICAE			CYCLOTHONE SP.					
	OPHIDIIDAE			SYNDONOTICAE					
	SERRANICAE			OPHIDIIDAE					
	POMACENTRICAE			SERRANIDAE					
	LABRIDAE OR SCARIDAE			CARANGIDAE					
	BLENNICAE			SPARIDAE					
	SCORPAENICAE			LABRIDAE OR SCARIDAE					
	TRIGLIDAE			PHOLICAE					
	UNIDENTIFIED			STROMATEICAE					
				SCORPAENICAE					
				UNIDENTIFIED					
.....									
# 1 20 04	SAMPLING DEPTH 0-15M								
BREVIDORTIA TYFANNIUS	3	3 15.2 14.1-17.0	TL					0.9	
LEICSTOMUS XANTHURUS	2	2 6.4 6.1- 6.8	SL					0.6	
MICROPOGON UNICULATUS	1	1 7.5	SL					0.3	
PEPRILUS TRIACANTHUS	2	2 8.9 8.3- 9.6	SL					0.6	
PRICNOTUS CAROLINUS	1	1 2.1	SL					0.3	
PARALICHTHYS DENTATUS	14	14 9.0 6.9-10.9	SL					4.2	
ADDITIONAL LARVAE CAUGHT	STOMIATICAE							0.0	
	SYNDONOTICAE								
	SYNGNATHICAE								
	SERRANICAE								
	SPARIDAE								
	GOBIDAE								
	SCORPAENICAE								
	TRIGLIDAE								

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED N 2 20 04	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.	
				0-6M						
BREVORTIA TYRANNUS	1	1	14.0	TL						0.1
ANCHIA HEPSETUS	2	2	11.4	8.0-14.5 TL						0.2
MYCTOPHUM AFFINE	1	1	5.2	SL						0.1
LEICSTOMUS XANTHURUS	1	1	9.1	SL						0.1
PEPILUS TRIACANTHUS	1	1	8.6	SL						0.1
PRIONOTUS CAROLINUS	21	21	3.6	2.2- 5.4 SL						2.5
CITHARICHTHYS ARCTIFRONS	4	4	3.9	3.1- 4.6 SL						0.5
PARALICHTHYS DENTATUS	1	1	8.7	SL	0					0.1
ADDITIONAL LARVAE CAUGHT										
				CYCLOTHOEC SP.						
				SYNDONTIDAE						
				SERRANIDAE						
				Gobiidae						
				UNIDENTIFIED						
.....										
N 3 20 04				0-15M						
BREVORTIA TYRANNUS	9	9	15.0	11.0-17.4 TL						3.4
ETRUMEUS SADIKA	49	49	28.7	11.0-60.8 TL						26.9
ANCHIA HEPSETUS	2	2	15.3	11.5-19.2 TL						0.6
ENGAULIS EURYSTOIE	11	11	31.1	25.0-43.1 TL						4.5
MYCTOPHIDAE					7	7	27.7	8.4-39.2 TL		0.2
CERATOSCOPELUS MAHRENSIS	2	2	7.1	6.2- 8.0 SL	1	1	6.9	SL		0.6
CERATOSCOPELUS WARMINGI	1	1	5.6	SL						0.3
HYGOPHUM BENOITI					1	1	9.9	SL		0.2
LOPHIUS AMERICANUS	1	1	3.6	TL						0.3
HEMANTHIA VIVANUS					2	1	3.9	SL		0.3
LARIMUS FASCITATUS					1	1	5.2	SL		0.2
LEICSTOMUS XANTHURUS	9	9	9.0	7.3-11.1 SL	4	4	8.5	6.7-10.1 SL		3.4
MICROPOGON UNDULATUS	1	1	5.2	SL						0.3
PEPILUS TRIACANTHUS	1	1	5.5	SL	1	1	3.4	SL		0.5
PRIONOTUS CAROLINUS	23	23	3.6	2.3- 8.5 SL						7.4
BETHUS OCCELLATUS					1					0.2
CITHARICHTHYS ARCTIFRONS	1	1	12.0	SL	1	1	13.1	SL		0.5
MACKLENE SESSILICAUTA	1	1	7.0	SL						0.3
PARALICHTHYS DENTATUS	11	11	8.4	6.0-10.2 SL	5	5	9.1	6.9-11.4 SL	0	4.2
SCOPHTHALMUS AQUOSUS					2	2	3.2	3.1- 3.3 SL		0.3
ADDITIONAL LARVAE CAUGHT										
				CYCLOTHOEC SP.						
				SYNDONTIDAE						
				BREGMACEROTIDAE						
				OPHIDIIDAE						
				SPARIDAE						
				SCORPAENIDAE						
				TRIGLIDAE						
				UNIDENTIFIED						
.....										
N 4 20 04				0-15M						
OPHICHTHUS GOMESI	1	1	14.5	TL						0.3
BREVORTIA TYRANNUS	1	1	19.0	TL						0.3
ETRUMEUS SADIKA					3	3	12.2	6.4-15.6 TL		1.0
ANCHIA HEPSETUS	17	17	8.1	2.5-14.4 TL	7	7	11.1	10.5-11.7 TL		5.7
ENGAULIS EURYSTOIE					1	1	6.6	SL		2.3
CERATOSCOPELUS MAHRENSIS	3	3	6.4	5.7- 7.3 SL	3	3	6.7	5.7- 8.6 SL		1.2
CERATOSCOPELUS WARMINGI					3	3	6.7	5.7- 8.6 SL		1.0
DIAPHUS SP.	1	1	6.8	SL						0.3
HYGOPHUM BENOITI					1	1	7.7	SL		0.3
LAMPANYCTUS ALATUS OR PHOTACTUS	3	3	5.0	4.8- 5.1 SL						1.0
MYCTOPHUM AFFINE	2	2	8.0	6.9- 9.1 SL						0.7
MYCTOPHUM AFFINE	2	2	3.5	2.8- 4.3 SL	1	1	4.3	SL		0.9
UPHRYCIS SP.	1	1	3.2	SL	2	2	4.3	3.7- 5.0 SL		1.0
HEMANTHIA VIVANUS	1	1	4.4	SL	3	3	4.5	4.2- 4.8 SL		1.3
LEICSTOMUS XANTHURUS	1	1	4.4	SL						0.3
MENICIRRHUS SP.					1	1	7.4	SL		0.9
AUXIS SP.	2	2	6.9	6.7- 7.1 SL	1	1	3.5	2.3- 6.0 SL		20.7
PEPILUS TRIACANTHUS	38	38	2.5	1.4- 8.2 SL	28	28	3.2	2.3- 5.2 SL		4.2
PRIONOTUS CAROLINUS	4	4	6.6	5.9- 8.0 SL	9	9	3.2	2.3- 5.2 SL		2.2
BETHUS OCCELLATUS	5	5	5.1	2.6-11.1 SL	2	2	12.1	8.3-15.8 SL		1.7
CITHARICHTHYS ARCTIFRONS					5	5	6.8	4.2-12.7 SL		0.3
CYCLOPSSETA FIMBRIATA	1	1	4.5	SL						1.2
ETROPUS MICROSTOMUS	3	3	8.7	4.6-11.2 SL	1	1	6.0	SL		1.2
PARALICHTHYS DENTATUS	3	3	4.4	3.7- 5.6 SL	1	1	3.7	SL	0	1.2
SYMPHURUS SP.	10	5	7.2	4.1-11.6 SL	3	3	9.0	4.3-17.1 SL		4.0
ADDITIONAL LARVAE CAUGHT										
				CYCLOTHOEC SP.						
				SYNDONTIDAE						
				BREGMACEROTIDAE						
				OPHIDIIDAE						
				SERRANIDAE						
				SPARIDAE						
				CARANGIDAE						
				LABRIDAE OR SCARIDAE						
				Gobiidae						
				TRIGLIDAE						
				UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE C66 3 1966 STA. 04 SPECIES ANALYZED N 5 20 04	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10M ² LARVAE EGGS	
	NUMBER TOTAL MEAS. SAMPLING DEPTH	MEAN LENGTHS (MM) C-15M	RANGE MEAS. C-15M	SL		NUMBER TOTAL MEAS. SAMPLING DEPTH	MEAN LENGTHS (MM) 18-33M	RANGE MEAS. 18-33M	SL			
MYCTOPHIDAE						1	4.3		SL			0.3
CERATOSCOPELUS MAHERENSIS	44	44	6.4	4.7-10.2	SL	50	50	6.1	3.7- 5.7	SL		29.9
CERATOSCOPELUS HAMMINGI	48	48	4.9	3.8- 7.1	SL	55	55	4.9	3.6-10.7	SL		22.7
DIARHUS SP.	3	3	5.3	5.0- 5.8	SL	5	5	6.2	4.3-12.1	SL		2.6
LAMPANYCTUS SP.						2	2	3.4	3.1- 3.7	SL		0.7
LAMPANYCTUS ALATUS OR PHOTONCTUS	3	3	4.1	4.0- 4.2	SL	1	1	4.5		SL		1.2
LAMPANYCTUS ATER	1	1	5.3		SL	1	1	7.4		SL		0.6
LAMPADENA SP.						1	1	6.2		SL		0.3
MYCTOPHUM OBTUSIROSTRIS						1	1	6.0		SL		0.3
HEMANTHIAS VIVANUS	2	2	6.2	5.3- 7.1	SL	2	2	7.2	6.0- 8.4	SL		1.3
ALIXIS SP.	6	6	4.6	4.1- 5.1	SL	8	8	5.2	4.7- 6.9	SL		4.5
KATSUONUS PELANIS	1	1	5.6		SL							0.3
THYNNUS THYNNUS						1	1	7.7		SL		0.3
PRIONOTUS CAROLINUS	3	3	4.2	3.0- 5.3	SL							1.0
BCTHUS OCELLATUS	1	1	7.2		SL	9	9	5.6	3.7-10.7	SL		3.3
CITHARICHTHYS ARCTIFRONS	1	1	6.0		SL							0.3
ETROPUS MICROSTOMUS						1	1	3.7		SL		0.3
SYMPHURUS SP.						1	1	5.6		SL		0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHOPE SP.					CYCLOTHONE SP.						
	SYNOODONTIDAE					STOMIATIDAE						
	CHLOROPHTHALMICAE					SYNOODONTIDAE						
	PARALEPIDIDAE					PARALEPIDICAE						
	BREGMACEROTIDAE					BREGMACEROTIDAE						
	SERRANICAE					CAPROIDAE						
	GRANNIETIDAE					SERRANIDAE						
	CARANGICAE					APOGONIDAE						
	POMACENTRICAE					CARANGIDAE						
	LABRIDAE OR SCARIDAE					CORYPHAENICAE						
	MUGILICAE					POMACENTRIDAE						
	SPHYRAENIDAE					LABRIDAE OR SCARICAE						
	GOBIIDAE					CALLIONYMIDAE						
	GEMPYLICAE					GOBIIDAE						
	SCORPAENIDAE					GEMPYLIDAE						
	UNIDENTIFIED					SCORPAENICAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
P 1 21 04	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 1E-24M						
P 2 21 04	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 1E-24M						
ANCHOA HEPSETUS	1	1	16.6	TL	0	2	2	20.4	20.0-20.9	TL		0.3
PARALICHTHYS DENTATUS	1	1			0	1	1	6.5		SL		0.2
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
.....												
P 3 21 04	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 1E-24M						
PARALICHTHYS DENTATUS	1	1	5.3	SL	0	9	9	4.7	3.8- 5.4	TL		2.1
ADDITIONAL LARVAE CAUGHT	SPARIDAE					UNIDENTIFIED						
.....												
P 4 21 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M						
ANCHOA HEPSETUS					0	2	2	6.5	5.4- 8.4	SL	0	0.2
BENTHOSEMA SUPRORBITALE						1	1	4.6		SL		0.3
LOPHIUS AMERICANUS	2	2	4.6	4.5- 4.8	TL	9	9	4.7	3.8- 5.4	TL		2.1
LEICSTOMUS XANTHUS	1	1	9.4		SL							0.3
PEPRILUS TRIACANTHUS	6	6	7.0	4.0-12.2	SL	3	3	7.8	7.1- 9.2	SL		2.3
CITHARICHTHYS ARCTIFRONS	2	2	11.5	11.0-12.0	SL							0.6
ETROPUS MICROSTOMUS						2	2	6.5	5.4- 8.4	SL		0.3
PARALICHTHYS DENTATUS						1	1	4.6		SL	0	0.2
SYMPHURUS SP.	1	1	5.7		SL							0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHOPE SP.					OPHIIDAE						
	OPHIIDAE					SPARIDAE						
	SYNGNATHICAE					GOBIIDAE						
	SPARIDAE					STROMATEICAE						
	UNIDENTIFIED					UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****				***** LARVAE *****				2	
STA. D M SPECIES ANALYZED	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M	EGGS
A 1 12 05	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE	
CLUPEA HARENGUS HARENGUS	2	2	36.2	35.8-36.7 TL					0.2	
GADUS MORHUA	2	2	3.9	3.5-4.2 SL					0.2	0.0
AMMODYTES SP.	8	8	26.2	8.7-41.6 TL					1.0	
LIPARIS INQUILINUS	133	43	4.4	3.0-6.7 TL					16.1	
CITHARICHTHYS ARCTIFRONS	4								0.5	
LIMANDA FERRUGINEA	21	15	4.0	3.1-5.6 SL					2.5	
PSEUDOPLEURONCTES AMERICANUS	63	25	4.8	3.2-7.2 SL					7.6	
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE									
	BLENNIIDAE									
	STROMATEIDAE									
	COTTIDAE									
	UNIDENTIFIED									
.....										
A 2 12 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
CLUPEA HARENGUS HARENGUS	1	1	40.2	TL					0.3	
ENCHELIOPLIS CIMBRIUS									0.0	0.5
GADUS MORHUA									0.0	0.3
AMMODYTES SP.	1	1	15.2	TL					0.3	
SCORPIONIDAE									0.0	0.3
LIPARIS ATLANTICUS					1	1	8.6	TL	0.2	
LIPARIS INQUILINUS	40	21	4.1	3.1-6.5 TL	51	25	4.8	3.2-6.9 TL	20.5	
CITHARICHTHYS ARCTIFRONS	1								0.3	
HIPPOGLOSSOIDES PIATISSOIDES	2	2	7.6	7.2-8.0 SL					0.6	
LIMANDA FERRUGINEA	37	32	4.0	2.5-6.2 SL	27	22	3.7	2.9-5.6 SL	15.7	
PSEUDOPLEURONCTES AMERICANUS	289	25	4.2	3.2-6.6 SL	176	25	4.6	3.3-7.8 SL	117.2	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE					
	COTTIDAE				COTTIDAE					
.....										
A 3 13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
ENCHELIOPLIS CIMBRIUS									0.0	0.3
GADUS MORHUA									0.0	1.0
AMMODYTES SP.	1	1	21.4	TL	1	1	24.7	TL	0.6	
LIPARIS INQUILINUS	12	9	5.3	4.1-7.9 TL	4	4	7.9	7.0-8.7 TL	4.9	
CITHARICHTHYS ARCTIFRONS	1								0.3	
LIMANDA FERRUGINEA					36	25	3.6	3.1-4.0 SL	12.0	
PSEUDOPLEURONCTES AMERICANUS	58	25	3.8	2.9-5.1 SL	9	9	5.9	4.2-7.2 SL	20.4	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE					
	UNIDENTIFIED				UNIDENTIFIED					
.....										
A 4 13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CLUPEA HARENGUS HARENGUS	1	1	36.8	TL					0.3	
GADUS MORHUA	2	2	9.1	7.1-11.0 SL	0	10	10	5.8	5.1-7.0 SL	0.0
MELANOGRAMMUS AEGLEFINUS	19	18	4.4	3.4-6.6 SL	0	3	3	4.5	4.2-4.9 SL	0.0
GLYPTOCEPHALUS CYNOGLOSSUS	11	6	5.4	4.3-7.2 SL		16	9	5.2	4.2-6.0 SL	8.6
HIPPOGLOSSOIDES PIATISSOIDES						10	7	7.3	6.2-9.4 SL	3.3
LIMANDA FERRUGINEA	111	25	4.1	3.1-5.4 SL		76	25	4.0	3.1-5.1 SL	58.6
PSEUDOPLEURONCTES AMERICANUS	1	1	5.0	SL		5	4	5.0	4.2-6.1 SL	2.0
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				ANGUILLA ROSTRATA					
	UNIDENTIFIED				BLENNIIDAE					
					UNIDENTIFIED					
.....										
A 5 13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
GADUS MORHUA	2	2	5.1	3.9-6.3 SL	0	4	4	7.6	5.2-10.8 SL	0.0
MELANOGRAMMUS AEGLEFINUS	14	14	5.4	3.9-7.5 SL	0	39	38	5.6	4.1-8.4 SL	0.0
AMMODYTES SP.	1	1	37.8	TL					0.3	
LIPARIS INQUILINUS	1	1	7.3	TL					0.3	
GLYPTOCEPHALUS CYNOGLOSSUS						45	29	5.5	4.2-7.0 SL	15.0
HIPPOGLOSSOIDES PIATISSOIDES	10	8	6.6	5.3-8.3 SL		12	9	6.6	6.7-13.1 SL	7.0
LIMANDA FERRUGINEA	28	27	4.5	3.3-6.3 SL		93	25	4.3	3.3-5.8 SL	39.4
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE									
.....										
A 6 13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
ENCHELIOPLIS CIMBRIUS	1	1	2.0	SL	0	1	1	2.0	SL	27
GADUS MORHUA	16	16	8.9	5.1-12.8 SL	0	9	9	7.6	5.8-9.2 SL	0.0
MELANOGRAMMUS AEGLEFINUS	63	63	6.2	3.9-12.7 SL	0	57	56	6.4	3.9-11.9 SL	0.0
POLLACHIUS VIRENS	2	2	9.5	9.5-9.5 SL	0				0.7	0.0
AMMODYTES SP.	1	1	39.2	TL					0.3	
LIPARIS INQUILINUS	3	2	8.8	7.8-9.8 TL					1.0	
GLYPTOCEPHALUS CYNOGLOSSUS	34	31	5.1	3.8-5.9 SL		22	17	5.0	4.1-5.7 SL	17.5
HIPPOGLOSSOIDES PIATISSOIDES	22	15	9.4	5.1-16.4 SL		11	11	11.5	6.7-16.0 SL	10.3
LIMANDA FERRUGINEA	17	17	4.7	3.2-6.1 SL		16	16	4.3	3.3-5.4 SL	10.4
PSEUDOPLEURONCTES AMERICANUS	1	1	5.0	SL					0.3	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				UNIDENTIFIED					

TABLE 3. (continued)

70

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2					
D66 5 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M					
STA.	D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE	EGGS				
A 7	13 05	SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M									
	MYCTOPHIDAE	5	4.3	3.7-5.0	SL										
	BENTHOSEMA GLACIAE					2	2	5.4	5.0-5.8	SL	1.7				
	GADUS MORHUA	8	7	8.0	5.3-12.0	SL	0	20	20	7.1	5.6-10.4	SL	0	9.1	0.0
	MELANOGRAMMUS AEGEIFINUS	5	4	6.7	5.6-8.5	SL	0	27	26	7.1	4.6-11.0	SL	0	10.5	0.0
	POLLACHIUS VIFENS							1	1	4.2		SL	0	0.3	0.0
	GLYPTOCEPHALUS CYNOGLOSSUS	2	2	4.2	3.7-4.7	SL		2	2	5.6	5.2-5.9	SL		1.3	
	HIPPOGLOSSOIDES PLATESSOIDES	4	4	10.5	6.3-16.2	SL		7	6	11.4	9.3-13.5	SL		3.5	
	LIMANDA FERRUGINEA							2	2	3.5	3.2-4.6	SL		0.7	
	ADDITIONAL LARVAE CAUGHT	SCORPAENIDAE				SCORPAENIDAE									
						UNIDENTIFIED									
.....															
B 1	13 05	SAMPLING DEPTH C-9M													
	GADUS MORHUA	2	2	8.8	8.4-9.1	SL	0				0.4	0.0			
	UROPHYCIS CHUSS	1	1	4.6		SL					0.2				
	MERLUCCIIUS BILINEARIS	1	1	71.2		ML	0				0.2	0.0			
	AMMODYTES SP.	7	7	35.7	16.7-60.5	TL					1.3				
	SCOMBER SCOMBRUS						109				0.0	15.8			
	LIPARIS INQUILINUS	69	63	4.4	3.3-10.0	TL					12.5				
	PSEUDOPLEURONCTES AMERICANUS	71	25	7.3	6.0-9.2	SL					12.9				
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE									
						COTTIDAE									
						UNIDENTIFIED									
.....															
B 2	13 05	SAMPLING DEPTH C-15M													
	ENCHELYOPUS CIMBRIUS	2	2	2.8	2.7-2.8	SL	0				0.6	0.0			
	GADUS MORHUA	9	7	14.2	7.0-40.0	SL	0				2.7	0.0			
	AMMODYTES SP.	6	6	19.1	12.7-27.5	TL					1.8				
	SCOMBER SCOMBRUS						153				0.0	46.4			
	LIPARIS INQUILINUS	13	11	5.1	3.5-7.2	TL					3.9				
	GLYPTOCEPHALUS CYNOGLOSSUS	1	1	6.2		SL					0.3				
	LIMANDA FERRUGINEA	13	13	5.5	3.6-8.5	SL					3.9				
	PSEUDOPLEURONCTES AMERICANUS	4	4	6.7	6.1-7.5	SL					1.2				
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE									
						COTTIDAE									
.....															
B 3	13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M									
	ENCHELYOPUS CIMBRIUS	6	6	2.6	2.2-2.8	SL	0				2.0	0.0			
	GADUS MORHUA	16	16	9.0	3.5-18.6	SL	0	4	4	8.6	5.3-12.7	SL	0	6.1	0.0
	MELANOGRAMMUS AEGEIFINUS	7	7	7.1	4.6-10.4	SL	0	6	6	7.9	6.3-9.9	SL	0	4.1	0.0
	AMMODYTES SP.	3	3	19.8	18.7-21.2	TL					1.0				
	SCOMBER SCOMBRUS						15				21	0.0	11.8		
	LIPARIS INQUILINUS	24	20	5.2	3.8-10.0	TL					8.0				
	GLYPTOCEPHALUS CYNOGLOSSUS	27	25	5.6	4.3-7.0	SL		18	12	5.7	4.7-7.0	SL		14.1	
	HIPPOGLOSSOIDES PLATESSOIDES	2	2	8.7	7.9-9.5	SL		2	2	12.1	11.9-12.2	SL		1.3	
	LIMANDA FERRUGINEA	69	25	4.3	2.7-7.7	SL		69	25	4.9	3.3-8.3	SL		43.7	
	PSEUDOPLEURONCTES AMERICANUS	1	1	6.4		SL					0.3				
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE									
						COTTIDAE									
						UNIDENTIFIED									
.....															
B 4	13 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M									
	ENCHELYOPUS CIMBRIUS	2	2	3.0	2.3-3.7	SL	13	2	2	2.4	2.4-2.4	SL	12	1.3	7.5
	GADUS MORHUA	1	1	8.6		SL	0	2	2	6.1	5.3-6.8	SL	0	1.0	0.0
	MELANOGRAMMUS AEGEIFINUS	1					0						0	0.3	0.0
	SCOMBER SCOMBRUS						7						0	0.0	2.2
	LIPARIS INQUILINUS							1	1	4.4		TL		0.3	
	GLYPTOCEPHALUS CYNOGLOSSUS	22	22	5.6	4.1-7.7	SL		36	32	5.5	4.2-7.2	SL		18.6	
	HIPPOGLOSSOIDES PLATESSOIDES	3	3	9.3	8.6-10.0	SL		5	4	10.2	7.7-12.5	SL		2.6	
	LIMANDA FERRUGINEA	67	25	6.0	4.1-7.7	SL		84	25	5.8	4.1-7.7	SL		48.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE									
						COTTIDAE									
						UNIDENTIFIED									
.....															
B 5	13 05	SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M									
	ENCHELYOPUS CIMBRIUS	1	1	1.8		SL	29	5	5	2.2	2.0-2.4	SL	29	2.0	18.4
	GADUS MORHUA						2	4	4	7.8	4.4-11.8	SL	1	1.3	0.0
	MELANOGRAMMUS AEGEIFINUS						0	4	4	6.0	4.6-7.8	SL	0	1.3	0.0
	AMMODYTES SP.	1	1	30.0		TL								0.3	
	SCOMBER SCOMBRUS						0						3	0.0	1.0
	LIPARIS INQUILINUS	1	1	12.0		TL		1	1	7.3		TL		0.6	
	GLYPTOCEPHALUS CYNOGLOSSUS	31	29	5.1	4.2-6.5	SL		65	58	5.1	4.1-6.2	SL		31.0	
	HIPPOGLOSSOIDES PLATESSOIDES	3	1	8.3		SL		4	4	11.8	9.8-14.1	SL		2.2	
	LIMANDA FERRUGINEA	219	25	5.4	3.3-7.8	SL		221	25	5.0	2.8-8.2	SL		139.4	

TABLE 3. (continued)

CRUISE DATE STA. O M SPECIES ANALYZED R 6 13 05	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	EGGS			
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	MEAS.	NO.		NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	MEAS.	NO.					
ENCHEL YOPUS CIMBRIUS	1	1	2.0	SL	63				15	0.3	23.9			
GADUS MORHUA					0	3	3	6.6	5.7- 7.8	SL	0	1.0	0.0	
MELANOGRAMMUS AEGLEFINUS					0	1	1	7.2		SL	0	0.3	0.0	
PELLACHIUS VIRENS	2	2	9.8	9.0-10.6	SL	0					0	0.7	0.0	
SCOMBER SCOMBRUS					2				1		1	0.0	0.9	
GLYPTOCEPHALUS CYMOGLOSSUS						1	1	6.6		SL		0.3		
HIFOGLOSSOIDES PIATISSOICES	3	2	9.0	6.2-11.8	SL							1.0		
LIMANDA FERRUGINEA	64	25	5.4	3.8- 8.4	SL	42	25	5.6	3.8- 7.8	SL		33.2		
ADDITIONAL LARVAE CAUGHT COTTIDAE														
.....														
R 7 13 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
BENTHOSOMA SP.	2	2	6.1	5.5- 6.8	SL						0.7			
BENTHOSOMA GLACTIAE						4	4	5.7	5.0- 6.8	SL		1.3		
ENCHEL YOPUS CIMBRIUS	1	1	13.5		12						9	0.3	6.6	
MELANOGRAMMUS AEGLEFINUS					0	6	6	7.7	5.4-10.2	SL	0	2.0	0.0	
PELLACHIUS VIRENS					0	1	1	7.0		SL	0	0.3	0.0	
GLYPTOCEPHALUS CYMOGLOSSUS						4	4	5.2	4.7- 5.8	SL		1.3		
LIMANDA FERRUGINEA	1	1	6.7		SL	4	4	5.5	4.6- 6.5	SL		1.6		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
C 1 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHEL YOPUS CIMBRIUS					3						0.0	0.9		
AMMOCYTES SP.	4	4	24.3	14.7-38.7	TL						1.2			
SCOMBER SCOMBRUS					344						0.0	104.2		
LIMANDA FERRUGINEA	6	6	6.5	4.7- 7.9	SL						1.8			
PSEUDOPLEURONECTES AMERICANUS	3	3	5.5	4.8- 7.3	SL						0.9			
ADDITIONAL LARVAE CAUGHT ANGUILLIDAE RESTRATA COTTIDAE														
.....														
C 2 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
AMMOCYTES SP.	1	1	57.8		TL						0.3			
SCOMBER SCOMBRUS					164						0.0	49.7		
LIPARIS INQUILINUS	3	3	6.3	5.3- 7.0	TL						0.9			
LIMANDA FERRUGINEA	2	2	7.2	6.1- 8.2	SL						0.6			
.....														
C 3 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
ENCHEL YOPUS CIMBRIUS	7	7	3.2	2.0- 3.8	SL	0	1	1	2.7	SL	0	2.3	0.0	
SCOMBER SCOMBRUS					40						29	0.0	17.0	
LIPARIS INQUILINUS	1	1	3.6		TL		1	1	3.0	TL		0.5		
GLYPTOCEPHALUS CYMOGLOSSUS						2						0.3		
LIMANDA FERRUGINEA	3	2	5.7	5.2- 6.2	SL		4	3	6.8	6.1- 7.7	SL		1.6	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE														
.....														
C 4 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHEL YOPUS CIMBRIUS	9	8	3.0	2.2- 3.8	SL	0	4	4	3.3	2.5- 4.7	SL	0	4.0	0.0
GADUS MORHUA					0		1	1	5.4		SL	0	0.3	0.0
SCOMBER SCOMBRUS					18						19	0.0	11.7	
GLYPTOCEPHALUS CYMOGLOSSUS	1	1	6.8		SL							0.3		
LIMANDA FERRUGINEA	69	21	5.7	2.7- 9.0	SL		75	1	6.7		SL	45.7		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
C 5 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHEL YOPUS CIMBRIUS	4	4	3.3	2.5- 4.4	SL	0					0	1.3	0.0	
GADUS MORHUA	1	1	4.2		SL	0					0	0.9	6.6	
AMMOCYTES SP.	1	1	35.2		TL							0.3		
SCOMBER SCOMBRUS					6						3	0.0	2.8	
PEPILUS TRIACANTHUS	1	1	4.5		SL							0.3		
GLYPTOCEPHALUS CYMOGLOSSUS	2	1	6.4		SL							0.7		
LIMANDA FERRUGINEA	68	25	5.2	3.5- 7.0	SL		120	25	7.0	5.7- 9.2	SL	60.4		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
C 6 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHEL YOPUS CIMBRIUS	2	2	2.4	2.0- 2.8	SL	0	2	2	2.6	2.3- 3.4	SL	0	1.3	0.0
GADUS MORHUA					0		1	1	5.2		SL	0	0.3	0.0
SCOMBER SCOMBRUS					1							0	0.0	0.3
GLYPTOCEPHALUS CYMOGLOSSUS	3	1	5.0		SL							1.0		
LIMANDA FERRUGINEA	60	16	6.0	4.2- 9.0	SL		94	25	6.3	3.9- 8.2	SL	49.3		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
C 7 14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHEL YOPUS CIMBRIUS					4	2	2	2.4	2.0- 2.7	SL	0	0.7	1.3	
GADUS MORHUA	2	2	6.4	5.8- 7.0	SL	0	2	1	6.4		SL	0	1.3	0.0
MELANOGRAMMUS AEGLEFINUS	1	1	6.3		SL	0	2	2	8.4	7.2- 9.6	SL	0	1.0	0.0
GLYPTOCEPHALUS CYMOGLOSSUS	48	39	6.7	4.8-11.2	SL		61	52	6.2	4.2- 9.0	SL	34.7		
LIMANDA FERRUGINEA	290	25	5.9	4.2- 9.1	SL		310	25	6.4	3.9- 5.7	SL	150.3		
ADDITIONAL LARVAE CAUGHT BLENNIIDAE STICHAELIDAE														

TABLE 3. (continued)

CRUISE DATE D66 5 1966 STA. D M SPECIES ANALYZED C 8 14 05	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS	
	NUMBER	LENGTHS (MM)		MEAS.		NUMBER	LENGTHS (MM)		MEAS.			
BENTHOSOMA SP.	3	3	6.8	6.5- 7.2	SL	1	1	5.5	SL	0.3		
BENTHOSOMA GLACIAE										1.0		
ENCHEL YOPUS CIMBRIUS					0					0.0	0.3	
GADUS MORHUA					0	3	3	6.5	4.7- 7.6	SL	0	0.0
MELANOGRAMMUS AEGLEFINUS					0	1	1	4.3		SL	0	0.0
AMMODYTES SP.	2	2	36.1	33.3- 39.0	TL	1	1	23.8		TL	0	0.3
LIMANDA FERRUGINEA	4	4	7.6	6.0- 9.4	SL	4	1	6.5		SL	0	0.9
ADDITIONAL LARVAE CAUGHT						MYCTOPHIDAE					2.5	
.....												
C 1 16 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS	7	7	3.1	2.2- 3.9	SL						0.8	0.0
UROPHYCIS SP.	1	1	11.0		ML						0.1	
SCOMBER SCOMBRUS											2752	333.5
LIPARIS INQUILINUS	1	1	3.7		TL						0.1	
LIMANDA FERRUGINEA	11	10	5.0	3.7- 6.2	SL						0.1	1.3
PSEUDOPLEURONECTES AMERICANUS	2	1	4.2		SL						0.2	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
.....												
D 2 16 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS	11	11	3.2	2.2- 5.4	SL						1.3	0.0
SCOMBER SCOMBRUS											5235	634.5
LIPARIS INQUILINUS	1	1	4.1		TL						0.1	
LIMANDA FERRUGINEA	176	25	5.5	3.9- 8.1	SL						21.3	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
.....												
D 3 16 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS	4	4	3.1	2.4- 3.9	SL						7	1.2
AMMODYTES SP.	1	1	41.8		TL						0.3	2.1
SCOMBER SCOMBRUS											750	0.0
LIMANDA FERRUGINEA	207	25	5.1	3.9- 6.7	SL						62.7	227.3
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
.....												
D 4 16 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS	20	17	3.6	3.0- 4.2	SL						8	6.1
GADUS MORHUA	1	1	5.4		SL						0	0.3
MELANOGRAMMUS AEGLEFINUS	1	1	6.2		SL						0	0.3
SCOMBER SCOMBRUS											66	0.0
LIPARIS INQUILINUS	4	4	4.8	4.3- 5.2	TL						1.2	20.0
LIMANDA FERRUGINEA	613	25	5.0	3.7- 5.9	SL						185.7	
.....												
D 5 16 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENCHEL YOPUS CIMBRIUS	12	12	4.3	3.3- 9.5	SL						0	5.6
GADUS MORHUA	2	2	6.6	6.5- 6.7	SL						0	0.6
SCOMBER SCOMBRUS											42	0.0
LIPARIS INQUILINUS						1	1	4.6		TL	29	17.6
GLYPTOCEPHALUS CYNOGLOSSUS	2	2	8.5	8.5- 8.5	SL	2	1	8.3		SL	0	0.2
LIMANDA FERRUGINEA	624	25	4.8	3.9- 5.7	SL	617	25	4.7	3.3- 5.7	SL	0	0.9
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					UNIDENTIFIED					291.3	
.....												
D 6 17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS	2	2	3.7	3.5- 3.9	SL						0	0.9
GADUS MORHUA	3	3	6.7	4.3- 9.2	SL						0	1.20
AMMODYTES SP.	2	2	32.5	31.0- 34.0	TL						6	0.7
SCOMBER SCOMBRUS											1	0.0
GLYPTOCEPHALUS CYNOGLOSSUS	6	5	6.7	5.7- 7.7	SL	6	3	6.7	5.3- 8.0	SL	0	3.8
LIMANDA FERRUGINEA	471	25	5.2	3.4- 6.7	SL	398	25	5.4	3.4- 8.0	SL	0	273.9
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
.....												
D 7 17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS					0	3	3	2.5	2.3- 2.7	SL	0	1.0
SCOMBER SCOMBRUS					2						0	0.0
GLYPTOCEPHALUS CYNOGLOSSUS						2	1	7.7		SL	0	0.7
LIMANDA FERRUGINEA	126	25	5.1	3.4- 6.7	SL	156	25	6.1	4.2- 8.9	SL	0	69.8
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					UNIDENTIFIED						
.....												
D 8 17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
MYCTOPHIDAE						1	1	2.1		SL		0.3
BENTHOSOMA SP.						1	1	6.4		SL		0.3
ENCHEL YOPUS CIMBRIUS					1	1	2.4			SL	0	0.3
MELANOGRAMMUS AEGLEFINUS	1	1	9.1		SL						0	0.3
GLYPTOCEPHALUS CYNOGLOSSUS	2	1	6.3		SL						0	0.3
HYPGLOSOIDES PIATISSOIDES						2						1.3
LIMANDA FERRUGINEA	38	25	7.3	4.7- 11.2	SL	1	1	10.0		SL		0.3
						24	22	7.5	4.0- 10.0	SL		19.4

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2					
D66 5 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M ²	EGGS				
STA.	D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE					
E 1	19 05	SAMPLING DEPTH 0-6M													
	ENCHELYOPUS CIMBRIUS	1	21.2		SL	0				0.1	0.0				
	AMMODYTES SP.	2	40.4	31.9-48.9	TL					0.2					
	SCOMBER SCOMBRUS					1127				0.0	136.6				
	SCOPHTHALMUS AQUOSUS	3	3	2.8	2.7-3.0	SL				0.4					
	LIMANDA FERRUGINEA	2	2	5.3	4.9-5.7	SL				0.2					
	PSEUDOPLEURONCTES AMERICANUS	14	14	7.7	4.4-8.9	SL				1.7					
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE													
		STICHAETIDAE													
E 2	18 05	SAMPLING DEPTH 0-6M													
	ENCHELYOPUS CIMBRIUS	9	9	3.3	2.7-4.0	SL				1.1	0.0				
	SCOMBER SCOMBRUS					4378				0.0	530.6				
	SCOPHTHALMUS AQUOSUS	1								0.1					
	LIMANDA FERRUGINEA	56	25	6.3	4.6-11.9	SL				6.8					
	PSEUDOPLEURONCTES AMERICANUS	2	2	7.9	7.0-8.7	SL				0.2					
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED													
E 3	18 05	SAMPLING DEPTH 0-15M													
	ENCHELYOPUS CIMBRIUS	6	6	4.0	2.7-7.2	SL				1.8	0.3				
	GADUS MORHUA	2	2	7.8	7.5-8.0	SL				0.6	0.0				
	SCOMBER SCOMBRUS					241				0.0	73.0				
	LIPARIS INQUILINUS	4	4	4.7	3.9-5.5	TL				1.2					
	SCOPHTHALMUS AQUOSUS	1	1	3.1		SL				0.3					
	LIMANDA FERRUGINEA	110	25	5.5	4.6-6.4	SL				33.3					
E 4	17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
	ENCHELYOPUS CIMBRIUS	6	6	3.0	2.2-3.4	SL	0	9	9	3.3	1.8-5.2	SL	2	3.3	0.3
	GADUS MORHUA	5	4	4.7	3.9-5.6	SL	2	1	1	5.1		SL	0	1.7	0.6
	SCOMBER SCOMBRUS					104						33	0.0	37.3	
	LIPARIS INQUILINUS	4	3	5.6	5.4-6.0	TL		4	4	6.3	5.2-6.9	TL		1.9	
	GLYPTOCEPHALUS CYNOGLOSSUS	3	3	5.3	5.1-5.8	SL		9	4	5.5	4.9-6.6	SL		2.4	
	LIMANDA FERRUGINEA	162	25	5.5	4.1-7.4	SL		279	25	5.1	3.3-6.7	SL		54.8	
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					ANGUILLA FOSTRATA								
							BLENNIIDAE								
							UNIDENTIFIED								
E 5	17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
	ENCHELYOPUS CIMBRIUS	1	1	1.8		SL	1	1	1	2.8		SL	1	0.5	0.5
	SCOMBER SCOMBRUS					7						8	0.0	3.5	
	GLYPTOCEPHALUS CYNOGLOSSUS	2	1	7.1		SL		1	1	8.8		SL		0.8	
	LIMANDA FERRUGINEA	286	25	6.0	3.5-9.2	SL		138	25	6.1	3.2-8.9	SL		110.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					UNIDENTIFIED								
E 6	17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
	ENCHELYOPUS CIMBRIUS	11	11	3.2	2.5-3.8	SL	0	12	12	3.2	2.5-3.7	SL	0	5.3	0.0
	SCOMBER SCOMBRUS					3						0	0.0	1.0	
	GLYPTOCEPHALUS CYNOGLOSSUS	4	4	6.9	5.1-9.6	SL		3	3	5.4	4.6-6.1	SL		1.7	
	LIMANDA FERRUGINEA	191	25	4.2	2.9-8.7	SL		109	25	4.2	2.8-6.5	SL		76.3	
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED								
E 7	17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
	ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED								
E 8	17 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M								
	ENCHELYOPUS CIMBRIUS					SL	1					3	0.0	1.3	
F 1	18 05	SAMPLING DEPTH 0-6M													
	SCOMBER SCOMBRUS					249							0.0	30.2	
	SCOPHTHALMUS AQUOSUS	62	59	2.9	2.1-4.3	SL							7.5		
	LIMANDA FERRUGINEA	1	1	4.5		SL							0.1		
F 2	18 05	SAMPLING DEPTH 0-6M													
	SCOMBER SCOMBRUS					413							0.0	50.1	
	SCOPHTHALMUS AQUOSUS	40	33	3.1	2.4-4.6	SL							4.8		
F 3	18 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
	ENCHELYOPUS CIMBRIUS	1	1	22.4		SL	0					0	0.3	0.0	
	TAUTOGA ONITIS	1											0.3		
	SCOMBER SCOMBRUS					2489						2168	0.0	114.6	
	SCOPHTHALMUS AQUOSUS	4	4	2.7	2.5-3.0	SL		2	2	3.1	2.8-3.3	SL		1.6	
	LIMANDA FERRUGINEA	17	17	6.2	3.7-9.9	SL		13	12	6.1	4.7-6.9	SL		7.3	
	PSEUDOPLEURONCTES AMERICANUS	2	2	7.0	5.9-8.1	SL							0.6		
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED													

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS	
	NUMBER	LENGTHS (MM)				NUMBER	LENGTHS (MM)					
F 4 18 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS	2	2	4.0	3.6- 4.3 SL	0					0.6	0.0	
SCOMBER SCOMBRUS					1528					0.0	463.0	
LIPARIS INQUILINUS	1	1	10.4							0.3		
SCOPHTHALMUS AQUOSUS	1	1	3.7							0.3		
LIMANDA FERRUGINEA	32	31	6.0	4.4- 8.7 SL						9.7		
PSEUDOPLEURONECTES AMERICANUS	3	3	7.8	7.5- 8.2 SL						0.9		
ADDITIONAL LARVAE CAUGHT LABRIDAE CF SCARIDAE												
F 5 18 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS	5	5	5.6	2.5-15.4 SL	5	4	4	3.5	2.8- 4.6 SL	0	2.8	1.7
SCOMBER SCOMBRUS					47					16	0.0	19.4
LIPARIS INQUILINUS	7	3	7.2	6.3- 9.0 TL		2	2	5.3	5.3- 5.3 TL		2.8	
GLYPTOCEPHALUS CYNOGLOSSUS	3	3	5.8	5.2- 6.7 SL		4	3	6.0	4.7- 8.2 SL		2.2	
LIMANDA FERRUGINEA	356	25	5.9	2.9-10.2 SL		150	25	6.0	3.7- 5.6 SL		156.8	
PSEUDOPLEURONECTES AMERICANUS						1	1	8.7			0.3	
ADDITIONAL LARVAE CAUGHT												
F 6 18 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS	1	1	2.4		0					0	0.3	0.0
GADUS MORHUA					0	1	1	10.4		0	0.3	0.0
SCOMBER SCOMBRUS					7					4	0.0	3.4
LIPARIS INQUILINUS	3	3	7.1	6.5- 7.8 TL		2	2	5.9	5.9- 6.0 TL		1.6	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.7			5	4	7.2	6.7- 8.0 SL		2.0	
LIMANDA FERRUGINEA	513	25	4.9	3.5- 8.3 SL		326	25	5.5	4.2- 8.4 SL		262.5	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE												
F 7 19 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS					1					0	0.0	0.3
SCOMBER SCOMBRUS					2					1	0.0	0.9
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	8.5			1	1	7.4			0.6	
LIMANDA FERRUGINEA	58	25	7.3	5.2-10.2 SL		49	25	6.9	5.5- 8.9 SL		33.7	
ADDITIONAL LARVAE CAUGHT												
G 1 19 05		SAMPLING DEPTH 0-6M				SAMPLING DEPTH 18-33M						
SCOMBER SCOMBRUS					1212						0.0	146.9
SCOPHTHALMUS AQUOSUS	41	40	2.9	2.2- 5.1 SL							5.0	
PSEUDOPLEURONECTES AMERICANUS	3	3	7.6	5.8- 8.7 SL							0.4	
ADDITIONAL LARVAE CAUGHT												
G 2 19 05		SAMPLING DEPTH 0-6M				SAMPLING DEPTH 18-33M						
TAUTOGA ONTIS	22	3	2.3	2.1- 2.6 TL							2.7	
SCOMBER SCOMBRUS					1029						0.0	124.7
SCOPHTHALMUS AQUOSUS	58	53	2.9	2.3- 4.2 SL							7.0	
PSEUDOPLEURONECTES AMERICANUS	4	4	7.7	7.4- 7.9 SL							0.5	
ADDITIONAL LARVAE CAUGHT												
G 3 19 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS	1	1	3.5		1						0.3	0.2
TAUTOGA ONTIS	18	1	2.5								5.5	
SCOMBER SCOMBRUS					517						0.0	156.7
SCOPHTHALMUS AQUOSUS	30	25	2.9	2.5- 4.6 SL							9.1	
GLYPTOCEPHALUS CYNOGLOSSUS	1										0.3	
LIMANDA FERRUGINEA	3	1	3.2								0.9	
PSEUDOPLEURONECTES AMERICANUS	12	12	8.3	7.7- 9.1 SL							3.6	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE UNIDENTIFIED												
G 4 19 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS					0					2	0.0	0.7
SCOMBER SCOMBRUS					88					32	0.0	37.1
SCOPHTHALMUS AQUOSUS						1	1	3.5			0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	2	2	5.2	4.9- 5.5 SL		3	3	6.4	6.2- 6.7 SL		1.6	
LIMANDA FERRUGINEA	87	25	4.0	2.7- 5.8 SL		191	25	4.4	3.3- 5.6 SL		89.8	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
G 5 19 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
EUCHELYOPUS CIMBRIUS	2	2	3.5	3.5- 3.5 SL	1	1	1	3.7		0	0.9	0.3
SCOMBER SCOMBRUS					1					0	0.0	0.3
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.4								0.3	
LIMANDA FERRUGINEA	178	25	4.3	3.1- 5.3 SL		288	25	5.0	2.9- 6.2 SL		149.4	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
G 6 19 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M						
SCOMBER SCOMBRUS					0					2	0.0	0.7
LIMANDA FERRUGINEA	10	7	6.6	5.7- 7.3 SL		4	3	7.1	6.5- 7.7 SL		4.3	

TABLE 3. (continued)

CRUISE DATE D66 5 1966	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² L.F.V.A.E	NO. PER 10M ² EGGS					
	STATION	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO. EGGS	NUMBER	LENGTHS (MM)	NO. EGGS	NO. PER 10M ² L.F.V.A.E								
H 1	19 05																
		CYNOSCION SP.	2	2	2.7	2.7- 2.8	SL				0.1						
		MENTICIRRHUS SP.	4	4	2.8	2.5- 3.4	SL				0.2						
		SCOMBER SCOMBRUS						326			0.0	15.8					
		PEFFILUS TRIACANTHUS	1	1	8.7		SL				0.1						
		SCOPHTHALMUS AQUOSUS	47	42	3.3	2.4- 5.4	SL				2.8						
		LIMANDA FERRUGINEA	1	1	4.5		SL				0.1						
		PSEUDOPLEURONCTES AMERICANUS	3	3	7.4	7.1- 7.7	SL				0.2						
		ADDITIONAL LARVAE CAUGHT	STROMATEIDAE UNIDENTIFIED														
.....																	
H 2	19 05																
		SCOMBER SCOMBRUS						766			0.0	238.2					
		SCOPHTHALMUS AQUOSUS	102	50	3.3	2.3- 4.6	SL				30.9						
		LIMANDA FERRUGINEA	4	3	6.4	5.4- 7.2	SL				1.2						
		PSEUDOPLEURONCTES AMERICANUS	8	7	6.7	3.7- 8.5	SL				2.4						
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED														
.....																	
H 3	19 05																
		TAUTOGA ONITIS	15	1	2.6		TL				4.5						
		SCOMBER SCOMBRUS						42			0.0	12.7					
		SCOPHTHALMUS AQUOSUS	60	46	2.9	2.3- 3.8	SL				18.2						
		LIMANDA FERRUGINEA	21	20	6.5	5.2- 8.8	SL				6.4						
		PSEUDOPLEURONCTES AMERICANUS	1	1	6.2		SL				0.3						
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED														
.....																	
H 4	20 05																
		ENCHELYOPLUS CIMBRIUS	3	3	3.7	3.2- 4.1	SL	0			0.9	0.0					
		GADUS MORHUA	1	1	14.6		SL	0			0.3	0.0					
		SCOMBER SCOMBRUS						203			0.0	61.5					
		LIPARIS INQUILINUS	1	1	8.6		TL				0.3						
		SCOPHTHALMUS AQUOSUS	10	9	3.1	2.5- 4.1	SL				3.0						
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.2		SL				0.3						
		LIMANDA FERRUGINEA	55	25	6.3	4.4- 7.5	SL				16.7						
.....																	
H 5	20 05																
		ENCHELYOPLUS CIMBRIUS	1	1	3.4		SL	0	3	2	3.4	3.2- 3.5	SL	0	0.8	0.0	
		MERLUCCIIUS BILINEARIS						0						1	0.0	0.2	
		SCOMBER SCOMBRUS						83						108	0.0	43.0	
		SCOPHTHALMUS AQUOSUS	4	4	3.1	3.0- 3.3	SL		7	7	3.0	2.8- 3.5	SL		2.4		
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.9	3.5- 7.1	SL		2	2	5.6	5.4- 5.8	SL		0.6		
		LIMANDA FERRUGINEA	64	25	5.9	3.5- 7.1	SL		33	22	5.4	2.9- 7.7	SL		25.0		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED							UNIDENTIFIED							
.....																	
H 6	20 05																
		ENCHELYOPLUS CIMBRIUS						0	1	1	3.7		SL	0	0.3	0.0	
		SCOMBER SCOMBRUS						4						0	0.0	1.3	
		SCOPHTHALMUS AQUOSUS	2												0.7		
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.4		SL								0.3		
		LIMANDA FERRUGINEA	4	2	4.3	2.9- 5.7	SL		22	17	6.5	4.9- 7.5	SL		8.5		
.....																	
H 7	20 05																
		ENCHELYOPLUS CIMBRIUS	1	1	2.4		SL	0							0.3	0.0	
		LIMANDA FERRUGINEA							3						1.0		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED														
.....																	
J 1	21 05																
		TAUTOGA ONITIS	1	1	3.1		TL					0.1					
		SCOMBER SCOMBRUS						5				0.0	0.6				
		SCOPHTHALMUS AQUOSUS	9	8	4.0	2.7- 6.2	SL					1.1					
		LIMANDA FERRUGINEA	1									0.1					
		ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE UNIDENTIFIED														
.....																	
J 2	21 05																
		BREVOORTIA TYRANNUS	1	1	25.0		TL					0.1					
		SCOMBER SCOMBRUS						21				0.0	2.5				
		SCOPHTHALMUS AQUOSUS	41	40	3.5	2.7- 5.5	SL					5.0					
		ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE														
.....																	
J 3	21 05																
		BREVOORTIA TYRANNUS	1	1	25.0		TL					0.1					
		SCOMBER SCOMBRUS	4	4	3.6	3.2- 4.3	SL	15				0.5	1.8				
		SCOPHTHALMUS AQUOSUS	205	50	3.1	2.2- 4.8	SL					24.8					
		LIMANDA FERRUGINEA	2	2	8.9	8.7- 9.1	SL					0.2					
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED														

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****							
STA.	D M	SPECIES ANALYZED	NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NO. PER 10M LARVAE	% EGGS
J 4	20 05		SAMPLING DEPTH 0-15M											
		SCOMBER SCOMBRUS	9	4.6	3.4-6.8	SL	79						2.7	23.9
		SCOPHTHALMUS AQUOSUS	72	6.3	3.4-6.2	SL							21.8	
		GLYPTOCEPHALUS CYNOGLOSSUS	2	2	12.4-12.5	SL							0.6	
		LIMANDA FERRUGINEA	61	25	8.0-9.7	SL							18.5	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
J 5	20 05		SAMPLING DEPTH 0-15M											
		ENCHELYOPUS CIMBRIUS	1	1	3.7	SL	0						0.3	0.0
		SCOMBER SCOMBRUS	5	5	3.1-3.6	SL	5						1.5	1.5
		SCOPHTHALMUS AQUOSUS	22	21	3.2-5.0	SL							6.7	
		LIMANDA FERRUGINEA	188	25	5.6-12.4	SL							57.0	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
J 6	20 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
		ENCHELYOPUS CIMBRIUS	1	1	4.1	SL	0					0	0.3	0.0
		SCOMBER SCOMBRUS					4					5	0.0	2.9
		LIMANDA FERRUGINEA	10	9	5.6-7.8	SL							11.7	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED					UNIDENTIFIED							
J 7	20 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
		SCOMBER SCOMBRUS					4					1	0.0	1.5
		SCOPHTHALMUS AQUOSUS						2	2	3.1-3.3	SL		0.7	
		LIMANDA FERRUGINEA	35	25	6.3-10.2	SL		52	25	6.1-8.9	SL		27.8	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED					UNIDENTIFIED							
K 1	21 05		SAMPLING DEPTH 0-6M											
		BREVORTIA TYRANNUS	1	1	26.0	TL							0.1	
		LEICSTOMUS XANTHURUS	2	2	13.1-14.2	SL							0.2	
		SCOMBER SCOMBRUS	9	9	4.4-5.4	SL	1						1.1	0.1
		SCOPHTHALMUS AQUOSUS	35	28	3.6-5.8	SL							4.2	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
K 2	21 05		SAMPLING DEPTH 0-6M											
		LOPHIUS AMERICANUS	1	1	5.2	TL							0.1	
		TAUTOGA ONITIS	8	7	2.8-3.1	TL							1.0	
		SCOMBER SCOMBRUS	295	60	3.9-7.7	SL	0						25.8	0.0
		PARALICHTHYS DENTATUS	1	1	9.5	SL	0						0.1	0.0
		SCOPHTHALMUS AQUOSUS	109	50	3.3-4.7	SL							13.2	
		LIMANDA FERRUGINEA	2	2	9.0-10.0	SL							0.2	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
K 3	21 05		SAMPLING DEPTH 0-15M											
		TAUTOGA ONITIS	2										0.6	
		SCOMBER SCOMBRUS	218	57	4.3-8.1	SL	0						66.1	0.0
		CITHARICHTHYS ARCTIFRONS	1	1	3.1	SL							0.3	
		SCOPHTHALMUS AQUOSUS	34	30	4.2-6.1	SL							10.3	
		GLYPTOCEPHALUS CYNOGLOSSUS	5	5	14.6-17.6	SL							1.5	
		LIMANDA FERRUGINEA	13	13	8.4-10.7	SL							3.9	
		ADDITIONAL LARVAE CAUGHT LABRIDAE OR SCARIDAE UNIDENTIFIED												
K 4	22 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
		LOPHIUS AMERICANUS	2	2	4.2-4.9	TL							0.6	
		ENCHELYOPUS CIMBRIUS					0	1	1	4.6	SL	0	0.2	0.0
		SCOMBER SCOMBRUS	119	46	3.4-5.5	SL	0	11	7	3.9-4.9	SL	0	38.5	0.0
		SCOPHTHALMUS AQUOSUS	2	1	2.8	SL		1	1	5.6	SL		0.8	
		GLYPTOCEPHALUS CYNOGLOSSUS	3	2	10.2-10.7	SL		1	1	5.0	SL		1.1	
		LIMANDA FERRUGINEA	36	25	7.2-9.2	SL		55	25	7.1-10.5	SL		19.9	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
K 5	22 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
		LOPHIUS AMERICANUS	1	1	3.3	TL		4	4	4.0-5.2	TL		1.0	
		MERLUCCIIUS BILINEARIS	1	1	2.5	NL	0						0.3	0.0
		SCOMBER SCOMBRUS	118	52	3.1-5.1	SL	0	53	38	3.2-5.4	SL	0	44.8	0.0
		SCOPHTHALMUS AQUOSUS	2										0.6	
		LIMANDA FERRUGINEA	27	24	5.7-9.1	SL		13	10	5.2-6.8	SL		10.4	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED					UNIDENTIFIED							
K 6	22 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
		ENCHELYOPUS CIMBRIUS	1	1	2.9	SL	0						0.3	0.0
		UFORHICIS SP.						5	5	3.4-3.9	NL		1.7	
		SCOMBER SCOMBRUS					0	3	3	4.0-4.2	SL	0	1.0	0.0
		GLYPTOCEPHALUS CYNOGLOSSUS						4	2	6.1-6.7	SL		1.3	
		LIMANDA FERRUGINEA	20	17	5.9-8.0	SL		88	25	7.0-13.2	SL		35.3	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED					UNIDENTIFIED							

TABLE 3. (continued)

CRUISE DATE 066 1966 STA. D M SPECIES ANALYZED K T 22 05	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS	NO. MEAS. EGGS		
MYCTOPHIDAE												
BENTHOSOMA SP.											0.3	
ENCHELIOPOUS CIMBRIUS	1	1	2.6	SL	0						0.3	0.0
SCOMBER SCOMBRUS					1						0.0	0.6
LIMANDA FERRUGINEA	2	2	6.9	6.7-7.0 SL		7	6	6.6	6.0-7.3 SL		2.9	
.....												
L 1 22 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
ETRUMEUS SADINA	2	2	35.3	17.8-52.8 TL							0.2	
URCAPHYCIS SP.	1	1	56.6	NL							0.1	
LEICSTOMUS XANTHURUS	1	1	8.3	SL							0.1	
SCOMBER SCOMBRUS	3	3	3.7	3.0-4.2 SL	0						0.4	0.0
SCOPHTHALMUS AQUOSUS	7	5	3.2	2.9-3.7 SL							0.8	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE												
.....												
L 2 23 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
ETRUMEUS SADINA	1	1	26.0	TL							0.1	
TAUTOGA ONITIS	4	4	3.0	2.4-3.4 TL							0.5	
SCOMBER SCOMBRUS	93	82	3.8	2.6-5.6 SL	0						11.3	0.0
PEPRILUS TRIACANTHUS	4	4	6.1	3.8-8.0 SL							0.5	
SCOPHTHALMUS AQUOSUS	21	20	3.7	2.4-5.6 SL							2.5	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE												
SYNGNATHIDAE												
ATHERINIDAE												
SPARIDAE												
UNIDENTIFIED												
.....												
L 3 23 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ETRUMEUS SADINA						1	1	25.5	TL		0.3	
ENCHELIOPOUS CIMBRIUS					0	1	1	5.9	SL	0	0.3	0.0
GADUS MORHUA	1	1	3.3	SL	0					0	0.3	0.0
TAUTOGA ONITIS	4	4	3.6	3.4-4.0 TL		6	5	3.7	3.6-4.0 TL		3.2	
SCOMBER SCOMBRUS	115	52	4.0	2.8-5.5 SL	0	158	56	3.9	2.7-7.3 SL	0	87.2	0.0
PEPRILUS TRIACANTHUS	1	1	5.2	SL		7	7	7.1	5.0-11.4 SL		2.6	
PARALICHTHYS DENTATUS					0	3	3	11.5	11.1-12.3 SL	0	1.0	0.0
SCOPHTHALMUS AQUOSUS	36	35	4.2	2.9-5.7 SL		32	29	4.5	2.8-6.2 SL		21.5	
GLYPTOCEPHALUS CYNDOGLOSSUS						2	2	12.8	10.9-14.6 SL		0.7	
LIMANDA FERRUGINEA	2	2	10.2	9.6-10.7 SL		2	2	9.0	9.0-9.0 SL		1.3	
ADDITIONAL LARVAE CAUGHT CONGRIDAE												
.....												
L 4 22 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ETRUMEUS SADINA						2	2	18.6	18.2-19.1 TL		0.7	
LOPIIUS AMERICANUS	3	3	4.4	4.2-4.6 TL		3	3	4.6	4.6-4.7 TL		1.9	
SCOMBER SCOMBRUS	241	61	3.6	2.6-6.8 SL	0	33	30	3.6	2.6-7.2 SL	0	83.3	0.0
PEPRILUS TRIACANTHUS	15	15	5.9	3.4-9.9 SL		25	25	5.3	2.3-5.2 SL		12.8	
PARALICHTHYS DENTATUS	1	1	6.4	SL	0	2	2	9.0	8.8-9.3 SL	0	1.0	0.0
HIPPOGLASSINA OBLONGUS	1	1	2.8	SL							0.3	
SCOPHTHALMUS AQUOSUS	61	54	3.6	2.4-5.7 SL		84	50	4.1	2.8-6.2 SL		46.3	
GLYPTOCEPHALUS CYNDOGLOSSUS	2	2	7.2	7.0-7.4 SL		19	19	12.5	7.5-22.3 SL		6.9	
LIMANDA FERRUGINEA	3	3	9.4	7.0-12.0 SL		12	12	8.6	6.7-10.2 SL		4.9	
ADDITIONAL LARVAE CAUGHT SPARIDAE												
UNIDENTIFIED												
SYNGNATHIDAE												
SPARIDAE												
UNIDENTIFIED												
.....												
L 5 22 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
LOPIIUS AMERICANUS	1	1	4.3	TL							0.3	
ENCHELIOPOUS CIMBRIUS					0	7	7	2.9	2.3-3.4 SL	0	2.3	0.0
SCOMBER SCOMBRUS	3	3	3.9	3.2-4.4 SL	0					0	1.0	0.0
PEPRILUS TRIACANTHUS						1	1	6.8	SL		0.3	
CITHARICHTHYS ARCTIFRONS						1	1	8.7	SL		0.3	
SCOPHTHALMUS AQUOSUS	9	9	4.1	2.7-5.4 SL		10	9	4.5	3.1-5.8 SL		6.0	
GLYPTOCEPHALUS CYNDOGLOSSUS						5	4	10.3	7.5-12.3 SL		1.7	
LIMANDA FERRUGINEA	45	25	6.6	4.2-10.9 SL		286	25	6.6	4.3-10.1 SL		108.8	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
UNIDENTIFIED												
.....												
# 1 23 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
PEPRILUS TRIACANTHUS	2	2	3.1	2.6-3.6 SL							0.2	
ADDITIONAL LARVAE CAUGHT SPARIDAE												
.....												
# 2 23 05	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
PRICNOTUS CARLINIUS	6	6	2.5	2.0-3.4 SL							0.7	
ADDITIONAL LARVAE CAUGHT SPARIDAE												
UNIDENTIFIED												

TABLE 3. (continued)

CRUISE DATE D66 5 1966 STA. D M SPECIES ANALYZED M 3 23 05	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10 ² LARVAE	2 EGGS
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	SAMPLING DEPTH 0-6M		NO.		NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	SAMPLING DEPTH 1E-24M		NO.		
SARCINELLA ANOMOVA	3	3	12.5	10.5-14.8	TL							0.4	
ANCHOA HEPSETUS	4	4	9.2	7.0-12.0	TL							0.5	
MYCTOPHIDAE	1	1	5.2		SL							0.1	
CERATOSCOPELUS MADEFENSIS	1	1	6.1		SL							0.1	
UROPHYCIS SP.	3	3	3.6	3.1-4.2	NL							0.4	
LARIMUS FASCIATUS	2	2	3.5	3.4-3.7	SL							0.2	
PEPRILUS TRIACANTHUS	18	18	4.7	2.3-9.8	SL							2.2	
PRIONOTUS CARLINUS	4	4	5.5	5.2-6.3	SL							0.5	
CITHARICHTHYS ARCTIFRONS	1	1	10.2		SL							0.1	
ETRCPIUS MICROSTOMUS	3	3	4.2	3.5-4.9	SL							0.4	
SYACIUM PAPILLOSUM	3	3	4.4	3.2-6.9	SL							0.4	
SYMPHURUS SP.	6	6	5.6	3.2-7.7	SL							0.7	
ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE OPHIDIICAE SERRANICAE CORYPHAENICAE SPARIDAE LABRIDAE OR SCARICAE MUGILIDAE GOBIDAE ACANTHURICAE STROMATEICAE SCORPAENICAE TRIGLIDAE BALISTICAE UNIDENTIFIED												
M 4 23 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M							
DPHICHTHYS SP.	1	1	58.5		TL							0.3	
ANCHOA HEPSETUS						25	25	9.3	5.0-14.7	TL		4.0	
ENGRAULIS EURYSTONIE	42	42	2.8	1.1-17.3	TL							13.6	
MYCTOPHIDAE	3	3	5.3	4.0-6.6	SL	1	1	5.6		SL		1.1	
CERATOSCOPELUS MADEFENSIS	1	1	5.6		SL							0.3	
CERATOSCOPELUS WARMINGI						1	1	5.9		SL		0.2	
HYGOPHUM BENEDITI OR HYGOMI	1	1	4.8		SL							0.3	
HYGOPHUM TANNINGI						1	1	5.6		SL		0.2	
LAMPANYCTUS SP.	1	1	4.0		SL	1	1	4.8		SL		0.5	
LAMPANYCTUS ATER	1	1	5.1		SL	1	1	6.7		SL		0.5	
MYCTOPHUM SP.						2	2	4.7	4.4-5.1	SL		0.3	
PCNATOMUS SALTATRAX	1	1	5.1		SL	1	1	7.5		SL		0.5	
LARIMUS FASCIATUS	3	3	3.9	3.5-4.5	SL							1.0	
ALXIS SP.	8	8	5.6	4.2-7.5	SL							3.3	
EUTHYMNUS ALLETTERRATUS	1	1	6.1		SL							0.3	
SARCA SARCA						6						0.0	2.3
SCOMBER JAPONICUS	2	2	5.6	5.5-5.8	SL	0					3	0.0	0.0
SCOMBEROMORUS CAVALLA	1	1	7.5		SL						0	0.6	0.0
PEPRILUS TRIACANTHUS	41	41	4.0	1.7-9.8	SL	27	27	3.9	2.5-6.5	SL		17.0	
BCTHUS OCELLATUS	3	3	3.6	3.2-3.9	SL	5	4	6.8	4.1-14.3	SL		1.7	
CYCLCPESETTA FIMBRATA	2	2	6.0	5.0-6.9	SL	1	1	4.0		SL		0.8	
SYACIUM PAPILLOSUM	25	24	4.3	2.1-6.2	SL	19	19	5.0	4.1-6.1	SL		10.8	
SYMPHURUS SP.	38	38	5.4	3.1-13.6	SL	31	31	5.6	3.2-10.7	SL		16.7	
ADDITIONAL LARVAE CAUGHT	MURAENIDAE OPHICHTHIDAE SYNODONTIDAE LOPHIIFORMES OPHIDIIDAE SERRANIDAE APOGONIDAE CARANGIDAE SPARIDAE LABRIDAE OR SCARIDAE SPHYRAENICAE BLENNIIDAE GOBIDAE ACANTHURICAE TRICHIURIDAE STROMATEICAE SCORPAENIDAE TRIGLIDAE BALISTIDAE TETRAODONTIDAE UNIDENTIFIED												

TABLE 3. (continued)

79

CRUISE DATE 066 5 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	RANGE		
N 5 23 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M						
ANCHOA HEPSETUS	81	41	12.3	8.3-19.3	TL	9	9	11.9	9.6-17.4	TL	27.3	
MYCTOPHIDAE	2	2	4.9	4.3-5.6	SL	1	1	3.8		SL	0.9	
CERATOSCOPELUS MADEPENSIS						1	1	5.6		SL	0.3	
DIAPHUS SP.						1	1	10.4		SL	0.3	
UFOPHYCIS SP.						1	1	3.9		ML	0.3	
HEMANTHIAS VIVANUS	1	1	4.5		SL	7	7	4.5	3.5-5.4	SL	2.6	
PCMATOMUS SAL TATRIX	17	17	7.7	5.1-9.1	SL						5.7	
AUXIS SP.	6	6	6.1	5.0-7.4	SL	10	10	5.6	4.4-6.5	SL	5.1	
SARCA SARDA						1	1	6.5		SL	0.3	0.0
PEPILUS TRIACANTHUS	14	14	4.7	2.6-6.9	SL	6	6	5.0	2.7-7.6	SL	6.2	
BETHUS OCCELLATUS	3	3	3.8	3.3-4.7	SL	21	21	4.5	3.3-8.7	SL	7.9	
CYCLOPSETTA FIMBRIATA	2	2	4.9	3.5-6.2	SL	1	1	5.5		SL	0.9	
SYACIUM PAPILLOSUM	10	10	3.8	2.9-4.5	SL	32	32	3.8	2.9-5.5	SL	13.7	
SYMPHURUS SP.	21	18	6.2	3.6-10.0	SL	22	20	5.4	3.4-8.7	SL	13.6	
ADDITIONAL LARVAE CAUGHT	SYNDONOTIDAE					SYNDONOTIDAE						
	OPHIIDIIDAE					LOPHIIFORMES						
	EXOCEOTIDAE					OPHIIDIIDAE						
	HOLOCENTRIDAE					HOLOCENTRIDAE						
	SERRANIIDAE					SERRANIIDAE						
	CARANGIIDAE					APOGONIIDAE						
	SPARIDAE					CARANGIIDAE						
	LABRIDAE OR SCARIDAE					SPARIDAE						
	MUGILIDAE					LABRIDAE OR SCARIDAE						
	SPHYRAENIIDAE					SPHYRAENIIDAE						
	GOBIIDAE					GOBIIDAE						
	SCORPAENIIDAE					ACANTHURIIDAE						
	BALISTIIDAE					STROMATEIIDAE						
	UNIDENTIFIED					SCORPAENIIDAE						
						TRIGLIDAE						
						BALISTIIDAE						
						UNIDENTIFIED						
.....												
N 1 24 05	SAMPLING DEPTH 0-15M											
SARDINELLA ANCHOVIA	6	5	15.7	12.9-18.6	TL						1.8	
ENGRAULIS EURYSTOLE	6	6	10.1	6.0-14.0	TL						1.8	
SYMPHURUS SP.	6	5	10.4	5.2-13.2	SL						1.8	
ADDITIONAL LARVAE CAUGHT	CARANGIIDAE											
	SPARIDAE											
	LABRIDAE OR SCARIDAE											
	BALISTIIDAE											
	UNIDENTIFIED											
.....												
N 2 24 05	SAMPLING DEPTH 0-15M											
SARDINELLA ANCHOVIA	2	2	16.3	15.0-17.6	TL						0.6	
ANCHOA HEPSETUS	9	9	13.9	9.4-17.4	TL						2.7	
ENGRAULIS EURYSTOLE	1	1	23.0		TL						0.3	
LARBUS FASCIATUS	1	1	4.7		SL						0.3	
PEPILUS TRIACANTHUS	2	2	4.8	4.7-5.0	SL						0.6	
SYMPHURUS SP.	4	4	9.2	6.0-11.8	SL						1.2	
ADDITIONAL LARVAE CAUGHT	SYNDONOTIDAE											
	BREGMACEOTIDAE											
	OPHIIDIIDAE											
	LABRIDAE OR SCARIDAE											
	GOBIIDAE											
	BALISTIIDAE											
	UNIDENTIFIED											
.....												
CRUISE DATE 066 5 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
N 3 24 05	NUMBER	LENGTHS (MM)	MEAS.	RANGE	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	RANGE		
SARDINELLA ANCHOVIA	4	4	17.5	11.0-23.5	TL		2	2	15.0	15.0-15.0	TL	1.6
ANCHOA HEPSETUS	20	20	10.9	7.4-16.0	TL		107	51	10.0	4.0-19.1	TL	23.4
ENGRAULIS EURYSTOLE	3	3	11.0	8.1-12.8	TL							1.0
MYCTOPHIDAE							1	1	3.8		SL	0.2
CERATOSCOPELUS SP.							4	4	4.6	3.5-5.3	SL	0.6
CERATOSCOPELUS MADEPENSIS							1	1	12.3		SL	0.2
PCMATOMUS SAL TATRIX							1	1	5.0		SL	0.2
SARCA SARDA						2					1	0.0
PEPILUS TRIACANTHUS	19	19	4.4	2.8-11.7	SL		52	52	3.7	1.9-11.5	SL	14.3
PRIONOTUS CARLINUS							2	2	6.8	5.9-7.7	SL	0.3
CYPRINICHTHYS ARCTIFRONS							1	1	8.5		SL	0.2
CYCLOPSETTA FIMBRIATA	1	1	7.0		SL							0.3
ETROPLUS MICROSTOMUS							9	9	6.5	2.9-8.8	SL	1.5
SYACIUM PAPILLOSUM							2	2	5.6	7.3-11.8	SL	0.3
SYMPHURUS SP.	9	9	8.6	5.3-14.3	SL		21	20	8.9	4.2-15.2	SL	6.2
ADDITIONAL LARVAE CAUGHT	SYNDONOTIDAE					OPHIICHTHICAE						
	LOPHIIFORMES					SYNDONOTIDAE						
	BREGMACEOTIDAE					PARALEPIDIDAE						
	OPHIIDIIDAE					LOPHIIFORMES						
	SERRANIIDAE					BREGMACEOTIDAE						
	CARANGIIDAE					OPHIIDIIDAE						
	SPARIDAE					SERRANIIDAE						
	LABRIDAE OR SCARIDAE					CARANGIIDAE						
	GOBIIDAE					SPARIDAE						
	STROMATEIIDAE					LABRIDAE OR SCARIDAE						
	TRIGLIDAE					MUGILIDAE						
	BALISTIIDAE					GOBIIDAE						
	UNIDENTIFIED					TRICHIURIIDAE						
						STROMATEIIDAE						
						SCORPAENIIDAE						
						TRIGLIDAE						
						BALISTIIDAE						
						TETRAODONTIDAE						
						UNIDENTIFIED						

TABLE 3. (continued)

80

CRUISE DATE D66 5 1966 STA. D M N 4 24 05	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10 ² LARVAE	2 10 ² EGGS
		NUMBER TOTAL MEAS. SAMPLING DEPTH	MEAN RANGE	LENGTHS (MM) 0-15M			NUMBER TOTAL MEAS. SAMPLING DEPTH	MEAN RANGE	LENGTHS (MM) 18-33M	NO. EGGS		
	OPHICHTHUS GOMESI					1	1	21.0	TL		0.3	
	SARCINELLA ANCHOVIA	4	4	6.3	5.4- 7.4	1	1	10.2	TL		1.5	
	ANCHOA HEPSETUS					33	33	10.6	6.8-14.6	TL	11.0	
	ENGRaulis FURCOSTOIE					9	9	5.4	6.5-12.2	TL	3.0	
	CERATOSCOPELUS MADRENSIS	2	2	8.7	7.8- 9.7	1	1	8.9	SL		0.9	
	CERATOSCOPELUS WARMINGI	6	6	6.8	5.2-10.4	1	1	5.2	SL		2.1	
	DIAPHUS SP.	2	2	4.2	3.5- 4.9	5	5	6.2	3.9- 7.5	SL	2.3	
	HYGOPHUM BENOITI					1	1	4.5	SL		0.3	
	LAMPANYCTUS ALATUS OR PHOTONOTUS					2	2	4.2	3.5- 4.9	SL	0.7	
	LAMPANYCTUS ATER					1	1	5.8	SL		0.3	
	MYCTOPHUM AFFINE					2	2	4.8	4.3- 5.3	SL	0.7	
	NICTISCOPELUS RESPLENDENS					1	1	8.2	SL		0.3	
	UROPHYCIS SP.					4	2	2.5	2.2- 2.8	NL	1.3	
	HEMANTHIAS VIWANUS					1	1	4.8	SL		0.3	
	PEMATOMUS SALTATRIX	1	1	5.1							0.3	
	LARIMUS FASCIATUS	1	1	3.9							0.3	
	AUXIS SP.	13	13	5.6	5.0- 7.6	15	15	6.7	4.6- 9.5	SL	8.9	
	ELTHYNNUS ALLETTEWATUS	1	1	6.7		1	1	6.5	SL		0.6	
	SAREA SARDA									9	0.0	5.7
	PEPRILUS TRIACANTHUS	4	4	3.9	3.4- 4.5	15	15	3.6	1.8- 4.9	SL	6.2	
	BOHMUS OCELLATUS	92	25	4.3	2.7- 6.7	123	25	4.7	3.1- 6.7	SL	68.6	
	CYCLOPSETTA FIMBRIATA	2	2	4.1	4.0- 4.2	2	2	5.5	4.2- 6.7	SL	1.3	
	SYACTUM PAPILLOSUM	94	25	3.8	2.5- 5.4	106	25	3.9	2.6- 6.5	SL	63.5	
	SYMPHURUS SP.	24	24	5.6	3.1-11.5	97	93	5.7	3.2-14.2	SL	39.5	
	ADDITIONAL LARVAE CAUGHT											
				MURAENIDAE				MURAENIDAE				
				CYCLOTHOAE SP.				CYCLOTHONE SP.				
				SYNDONTIDAE				MAURCLIGUS SP.				
				LOPHIIFORMES				SYNDONTICAE				
				OPHIDIIDAE				PARALEPIDICAE				
				CARAPICAE				SUDIS SP.				
				HOLOCENTRIDAE				LOPHIIFORMES				
				CAPROIDAE				BREGMACROTICAE				
				FISTULARIICAE				OPHIDIIDAE				
				SERRANIDAE				SERRANIDAE				
				APOGONICAE				APOGONIDAE				
				CARANGICAE				HALACANTHUS SP.				
				CORYPHAENIDAE				CARANGIDAE				
				SPARIDAE				CORYPHAENIDAE				
				POMACENTRIDAE				SPARIDAE				
				LABRIDAE OR SCARIDAE				POMACENTRIDAE				
				BLENNIICAE				LABRIDAE OR SCARICAE				
				CALLIONYMICAE				MUGILIDAE				
				GOBIIDAE				SPHYRAENIDAE				
				TRICHTURIDAE				CALLIONYMICAE				
				STROMATEICAE				GOBIIDAE				
				SCORPAENICAE				ACANTHURIDAE				
				TRIGLIDAE				TRICHTURICAE				
				DACTYLOPTERUS VOLITANS				STROMATEICAE				
				BALISTIDAE				SCORPAENICAE				
				UNIDENTIFIED				TRIGLIDAE				
								DACTYLOPTERUS VOLITANS				
								BALISTIDAE				
								TETRAODONTICAE				
								UNIDENTIFIED				

TABLE 3. (continued)

CRUISE DATE D66 5 1966 STA. D M N 5 25 05	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS	
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.			
MEGALOPS ATLANTICA	4	4	7.0	6.5- 7.5	NL	2	2	9.2	8.6- 9.9	NL	1.9	
OPHICHTHUS OCCELLATUS						1	1	43.5		TL	0.3	
SARDINELLA ANCHOVIA	5	5	10.2	8.5-12.6	TL	5	5	12.2	10.6-13.6	TL	3.2	
ANCHOA MISPSETUS	22	22	10.0	6.1-17.0	TL	23	23	10.7	6.1-17.5	TL	14.3	
CERATOSCOPELUS SP.	1	1	4.7		SL						0.3	
CERATOSCOPELUS MADERENSIS	2	2	4.8	4.0- 5.6	SL	3	2	6.4	6.4- 6.5	SL	1.6	
CERATOSCOPELUS WARMINGI	8	8	4.9	2.7- 8.9	SL	3	3	4.8	4.3- 5.7	SL	3.4	
DIAPHYS SP.	2	2	4.2	3.9- 4.5	SL	2	2	5.4	4.5- 6.4	SL	1.3	
LAMPANICTUS SP.	2	2	5.3	5.0- 5.6	SL						0.7	
LAMPANICTUS ALATUS OR PHOTOCNOTUS						1					0.3	
LAMPANICTUS ATER						1	1	6.5		SL	0.3	
HEMANTHIAS VIWANUS	1	1	3.6		SL						0.3	
AUXIS SP.	106	105	6.7	3.8-10.1	SL	169	169	7.1	3.5-10.9	SL	88.1	
EUTHYNNUS ALLETENATUS	2	2	5.3	4.5- 6.1	SL	2	2	7.6	6.3- 8.9	SL	1.3	
KATSUNOYUS PELAMIS						2	2	6.2	6.2- 6.3	SL	0.7	
SARCA SARCA											0.0	0.2
SCOMBEROMORUS CAVALLA	3	3	5.3	3.9- 7.3	SL	7	7	5.7	4.0- 6.8	SL	3.2	
THYANUS ALBACARES OR ALALUNGA	1	1	5.3		SL						0.3	
PEPILUS TRIACANTHUS						21	21	4.6	2.0-11.7	SL	7.0	
PRIACANTHUS CAROLINUS						2	2	3.8	3.7- 4.0	SL	0.7	
RITHUS OCCELLATUS	31	31	5.6	3.1- 11.2	SL	52	25	5.0	2.1-15.5	SL	26.6	
SYACIUM PAPILLOSUM	19	19	4.3	3.2- 7.0	SL	27	27	4.4	2.5- 5.7	SL	14.7	
SYMPHYRUS SP.	4	4	4.4	4.0- 5.0	SL	1	1	3.7		SL	1.5	

ADDITIONAL LARVAE CAUGHT

- MURAENIDAE
- OPHICHTHIDAE
- CYCLOTHONE SP.
- VINCIGUERRIA SP.
- SYNODONTIDAE
- PARALEPIDIDAE
- LOPHIIFORMES
- OPHIDIIDAE
- SERRANIDAE
- GRAMMISTIDAE
- APOGONIDAE
- MALACANTHUS SP.
- CARANGIDAE
- SPARIDAE
- CHAETODONTIDAE
- POMACENTRIDAE
- LABRIDAE OR SCARIDAE
- CALLIONYMIDAE
- GOBIIDAE
- ACANTHURIDAE
- ISTIOPHORIDAE
- SCORPAENIDAE
- TRIGLIDAE
- BALISTIDAE
- TETRAODONTIDAE
- UNIDENTIFIED

- ANGUILLIFORMES
- MURAENIDAE
- OPHICHTHIDAE
- SYNODONTIDAE
- PARALEPIDIDAE
- LOPHIIFORMES
- BREGMACEROTIDAE
- OPHIDIIDAE
- CARAPIDAE
- Holocentridae
- SERRANIDAE
- GRAMMISTIDAE
- PRIACANTHIDAE
- APOGONIDAE
- CARANGIDAE
- CORYPHAENIDAE
- POMACENTRIDAE
- LABRIDAE OR SCARIDAE
- MUGILIDAE
- CALLIONYMIDAE
- GOBIIDAE
- ISTIOPHORIDAE
- STROMATEIDAE
- SCORPAENIDAE
- TRIGLIDAE
- DACTYLOPTERUS VOLITANS
- BALISTIDAE
- TETRAODONTIDAE

P 1 24 05

ANCHOA MISPSETUS
ETREPOS MICROSTOMUS

SAMPLING DEPTH 0- 6M
102 17 3.6 2.3- 4.2 TL
1 1 2.7 SL

ADDITIONAL LARVAE CAUGHT

- SYNGNATHIDAE
- BLENNIIDAE
- UNIDENTIFIED

12.4
0.1

P 2 24 05

ADDITIONAL LARVAE CAUGHT

SAMPLING DEPTH 0- 6M
UNIDENTIFIED

TABLE 3. (continued)

CRUISE DATE D66 5 1966 STA. D M SPECIES ANALYZED P 3 24 05	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE EGGS	
	NUMBER	LENGTHS (MM)		MEAS.		NUMBER	LENGTHS (MM)		MEAS.		
	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.			
	SAMPLING DEPTH 0-6M				SAMPLING DEPTH 18-24M						
ANCHOA HEPSETUS	3	3	16.6	14.6-18.6	TL				0.4		
MYCOPHIDAE	6	6	4.0	3.3-4.3	SL				0.7		
CERATOSCOPELUS SP.	9	5	4.3	3.4-5.6	SL				1.1		
PCMATOMUS SALIATRAX	4	4	3.5	3.4-3.9	SL				0.5		
AUXIS SP.	7	6	4.1	3.5-4.8	SL				0.8		
ETRCPIUS MICROSTOMUS	3	3	2.5	2.2-2.7	SL				0.4		
SYACIUM PAPILLOSUM	1								0.1		
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.										
	LOPHIIFORMES										
	SERRANICAE										
	APOGONICAE										
	CARANGICAE										
	CORYPHAENICAE										
	SPARIDAE										
	MUGILICAE										
	SPHYRÆNICAE										
	CALLIONYMICAE										
	GOBIIDAE										
	GEMPYLICAE										
	SCORPAENICAE										
	BALISTIDAE										
	UNIDENTIFIED										
P 4 24 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M						
OPHICHTHUS GOMEZI					1	1	6.5	TL	0.2		
ANCHOA HEPSETUS	17	17	12.3	6.8-20.0	TL	16	16	9.6	3.9-16.8	TL	7.8
LANFANYCTUS CLPRINUS											0.2
NOTOLYCHNUS VALDIVAE											0.2
CYNISSICION SP.											0.2
PEPRILUS TRIACANTHUS	3	3	4.4	3.7-5.1	SL	5	5	2.9	3.2-4.6	SL	1.7
BCTHUS OCELLATUS	1	1	3.6		SL	1	1	7.5		SL	0.5
ETRCPIUS MICROSTOMUS											0.5
SYACIUM PAPILLOSUM											0.2
SYMBHURUS SP.											0.2
ADDITIONAL LARVAE CAUGHT	SYNOGATICAE				DPHICHTHIDAE						
	LOPHIIFORMES				SYNOGONICAE						
	OPHIIDICAE				LOPHIIFORMES						
	SERRANICAE				BREGMACEROTICAE						
	CARANGICAE				OPHIIDICAE						
	SPARIDAE				SERRANICAE						
	BLENNIIDAE				CARANGICAE						
	GOBIIDAE				SPARIDAE						
	STROMATEIDAE				BLENNIIDAE						
	TRIGLIDAE				CALLIONYMIDAE						
	BALISTICAE				GOBIIDAE						
	TETRAODONTIDAE				TRICHIURICAE						
	UNIDENTIFIED				STROMATEICAE						
					TRIGLIDAE						
					BALISTIDAE						
					TETRAODONTIDAE						
					UNIDENTIFIED						

TABLE 3. (continued)

84

CRUISE DATE 066 7 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M EGGS	
	NUMBER	MEAS.	MEAN	LENGTHS (MM)		NUMBER	MEAS.	MEAN	LENGTHS (MM)			
A 1 17 06	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M						
ENCHELYOPLS CIMBRIUS	15	15	4.2	3.2- 5.7 SL	1					1.8	0.1	
MELANOGRAMMUS AEGLEFINUS	1	1	4.3	SL	0					0.1	C.C	
UROPHYCIS CHUSS	2	1	1.4	NL						0.2		
MERLUCCIIUS BILINEARIS	81	54	2.4	1.7- 2.8 NL	206					9.8	25.0	
TAUTOGA ONITIS	3									0.4		
SCOMBER SCOMBRUS	71	62	3.4	2.7- 4.7 SL	2168					8.6	255.5	
LIPARIS ATLANTICUS	18	18	5.2	3.2- 7.2 TL						2.2		
SCORPHTHALMUS AQUOSUS	60	56	3.1	2.3- 5.7 SL						7.3		
GLYPTOCEPHALUS CYNOGLOSSUS	3	2	4.5	4.4- 4.5 SL						0.4		
LIMANDA FERRUGINEA	65	25	4.2	2.5- 7.7 SL						7.9		
PSEUDOPLEURONECTES AMERICANUS	83	25	5.3	4.3- 7.7 SL						10.1		
ADDIT IDNAL LARVAE CAUGHT	BLENNIIDAE					LABRIDAE OR SCORPACAE						
	BALISTIDAE											
A 2 17 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
ENCHELYOPLS CIMBRIUS	17	17	2.7	1.8- 4.2 SL	12					5.2	3.6	
UROPHYCIS CHUSS	1	1	1.8	NL						0.3		
MERLUCCIIUS BILINEARIS	75	55	2.3	1.8- 3.2 NL	242					22.7	73.3	
TAUTOGA ONITIS	2	2	1.9	1.2- 2.6 TL						0.6		
TAUTOGLABRUS ADSPERSUS	1	1	4.4	TL						0.3		
SCOMBER SCOMBRUS	33	32	3.3	2.7- 4.3 SL	1227					10.0	371.8	
LIPARIS ATLANTICUS	2	2	4.4	4.0- 4.9 TL						0.6		
SCORPHTHALMUS AQUOSUS	4	4	2.9	2.7- 3.3 SL						1.2		
GLYPTOCEPHALUS CYNOGLOSSUS	8	6	4.4	4.0- 4.6 SL						2.4		
LIMANDA FERRUGINEA	260	29	4.4	2.9- 5.7 SL						78.8		
PSEUDOPLEURONECTES AMERICANUS	153	25	4.7	3.6- 6.2 SL						46.4		
A 3 17 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M						
ENCHELYOPLS CIMBRIUS	8	8	3.2	2.5- 3.5 SL	1	16	16	3.0	2.0- 4.6 SL	8	5.0	1.6
GADUS MORHUA	1	1	4.6	SL	0					0	0.3	0.0
UROPHYCIS CHUSS	3	3	1.4	1.2- 1.5 NL							1.0	
MERLUCCIIUS BILINEARIS	49	35	2.2	1.8- 2.6 NL	117	3	3	2.1	1.9- 2.3 NL	209	15.8	69.7
TAUTOGLABRUS ADSPERSUS	14	13	3.4	2.6- 4.3 TL		12	11	3.5	2.8- 4.5 TL		6.2	
SCOMBER SCOMBRUS	44	40	3.0	2.3- 4.1 SL	2385	24	24	3.1	2.5- 4.0 SL	1009	17.4	895.4
SCORPHTHALMUS AQUOSUS	2	1	2.5	SL							0.6	
GLYPTOCEPHALUS CYNOGLOSSUS	3	3	4.3	3.7- 4.7 SL		9	9	4.5	3.5- 7.0 SL		2.4	
LIMANDA FERRUGINEA	415	25	4.6	3.0- 7.8 SL		665	25	4.8	2.9- 6.5 SL		234.9	
PSEUDOPLEURONECTES AMERICANUS	25	21	4.3	3.3- 5.4 SL		15	15	4.0	3.4- 4.7 SL		10.1	
ADDIT IDNAL LARVAE CAUGHT						LABRIDAE OR SCORPACAE						
A 4 17 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
ENCHELYOPLS CIMBRIUS	23	21	3.1	1.8- 4.6 SL	23	18	17	2.6	1.8- 3.7 SL	23	12.9	14.6
GADUS MORHUA					0	1	1	3.9	SL	0	0.3	C.C
MELANOGRAMMUS AEGLEFINUS					0	3	3	6.9	6.1- 8.1 SL	0	1.0	C.C
MERLUCCIIUS BILINEARIS	3	3	3.3	3.2- 3.6 NL	107	16	15	2.4	2.0- 3.1 NL	158	6.2	84.8
TAUTOGLABRUS ADSPERSUS	19	19	3.6	3.2- 4.7 TL							6.3	
SCOMBER SCOMBRUS	28	27	3.2	2.4- 4.8 SL	4664	17	17	3.0	2.6- 3.7 SL	1997	14.1	2064.7
GLYPTOCEPHALUS CYNOGLOSSUS	10	9	5.6	4.6- 7.4 SL		19	16	4.5	3.8- 5.5 SL		9.3	
LIMANDA FERRUGINEA	379	25	4.9	3.2- 7.2 SL		440	25	4.3	2.1- 6.7 SL		260.3	
PSEUDOPLEURONECTES AMERICANUS	3	3	4.3	3.8- 4.7 SL		14	13	4.1	3.2- 5.4 SL		5.6	
A 5 17 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
ENCHELYOPLS CIMBRIUS	267	34	2.9	1.8- 4.4 SL	135	145	31	2.2	1.7- 3.7 SL	107	128.4	76.2
UROPHYCIS SP.	3	2	2.0	1.8- 2.2 NL							1.0	
UROPHYCIS CHUSS						1	1	1.6	NL		0.3	
MERLUCCIIUS BILINEARIS	4	3	2.7	2.2- 3.1 NL	123	1	1	2.8	NL	79	1.5	63.2
TAUTOGLABRUS ADSPERSUS						2	2	3.9	3.4- 4.4 TL		0.7	
SCOMBER SCOMBRUS	86	84	3.5	2.6- 5.0 SL	56	31	31	3.6	2.9- 4.7 SL	47	36.1	44.5
GLYPTOCEPHALUS CYNOGLOSSUS	8	6	5.1	3.7- 7.2 SL		25	24	5.8	3.4- 9.2 SL		10.7	
LIMANDA FERRUGINEA	278	25	4.3	2.9- 5.3 SL		439	25	5.5	3.9- 6.7 SL		229.7	
PSEUDOPLEURONECTES AMERICANUS	1					1	1	6.5	SL		0.6	
A 6 17 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
ENCHELYOPLS CIMBRIUS	73	38	2.5	1.6- 4.6 SL	283	316	40	2.2	1.6- 3.9 SL	383	127.2	212.5
MELANOGRAMMUS AEGLEFINUS	1	1	5.6	SL	0	1	1	7.2	SL	0	0.6	0.0
UROPHYCIS CHUSS	1	1	4.0	NL							0.3	
MERLUCCIIUS BILINEARIS					1					0	0.0	0.3
SCOMBER SCOMBRUS	13	13	3.6	2.8- 4.9 SL	30	2	2	4.2	3.8- 4.6 SL	45	4.6	24.0
GLYPTOCEPHALUS CYNOGLOSSUS	20	17	5.5	3.7- 8.5 SL		24	16	5.5	3.2- 7.9 SL		14.0	
LIMANDA FERRUGINEA	640	25	4.8	3.2- 7.2 SL		756	25	5.0	3.5- 6.7 SL		444.0	
ADDIT IDNAL LARVAE CAUGHT	UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE D66 7 1966 STA. D M SPECIES ANALYZED A 7 17 06	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M EGGS		
	NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.		NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.				
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M							
BENTHOSEMA GLACIALE						6	6	5.9	8.9-12.1	SL	2.0		
CERATOSCOPELUS MADERENSIS	3	3	6.8	6.1- 7.6	SL	3	3	7.0	6.3- 7.4	SL	1.9		
HYGOPHUM HYGOMI	1	1	11.4		SL						0.3		
LEPPIUS AMERICANUS	3	3	4.7	3.9- 5.2	TL	1	1	2.9		TL	1.2		
ENCHELIOPOUS CIMBRIUS	5	5	2.9	2.0- 3.8	SL	0	9	8	2.8	2.2- 3.9	SL	1	0.3
MELANOGRAMMUS AEGLEFINUS						0	1	1	7.1		SL	0	0.3
UROPHYCIS CHUSS	1	1	1.4		NL							0.3	
MERLUCCIIUS BILINEARIS												0	0.3
SCOMBER SCOMBRUS	2	2	3.5	3.5- 3.6	SL	21	5	5	3.4	3.0- 4.1	SL	0	2.3
GLYPTOCEPHALUS CYNOGLOSSUS							2	1	5.1		SL		0.7
LIMANDA FERRUGINEA	4	1	5.4		SL	13	2	6.2	5.2- 7.1	SL		5.5	
.....													
B 1 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
ENCHELIOPOUS CIMBRIUS	243	28	2.9	1.7- 6.8	SL	5					73.6	1.5	
GADUS MORHUA	2	2	9.0	8.5- 9.4	SL	0					0.6	0.0	
UROPHYCIS CHUSS	1	1	2.2		NL						0.3		
MERLUCCIIUS BILINEARIS	3	3	2.8	2.5- 3.3	NL	4					0.9	1.2	
TAUTOGA ONITIS	36	31	3.6	2.9- 4.7	TL						10.9		
TAUTOGLABRUS ADSPERSUS	609	586	3.3	2.0- 5.7	TL						144.5		
SCOMBER SCOMBRUS	77	61	3.6	2.7- 6.5	SL	77					23.3	23.3	
LIPARIS ATLANTICUS	1	1	4.0		TL						0.3		
SCORPHTHALMUS AQUOSUS	13	13	3.1	2.2- 4.3	SL						3.9		
GLYPTOCEPHALUS CYNOGLOSSUS	2										0.6		
LIMANDA FERRUGINEA	27	23	6.3	2.7- 9.2	SL						8.2		
PSEUDOPLEURONECTES AMERICANUS	61	25	5.5	4.5- 7.0	SL						18.5		
ADDITIONAL LARVAE CAUGHT BLENNIIDAE													
.....													
B 2 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
ENCHELIOPOUS CIMBRIUS	39	37	2.6	1.5- 5.1	SL	79	4	4	2.9	2.1- 3.4	SL	2	12.6
GADUS MORHUA						1	1	1	4.6		SL	0	0.2
MERLUCCIIUS BILINEARIS	18	16	2.6	2.0- 5.3	NL	16					3	5.8	
TAUTOGA ONITIS	52	42	2.7	1.9- 3.9	TL		2	1	2.6		TL		16.8
TAUTOGLABRUS ADSPERSUS	1100	119	3.0	1.7- 5.5	TL		89	85	3.1	2.0- 4.9	TL		355.5
SCOMBER SCOMBRUS	894	83	3.7	2.4- 7.2	SL	134	48	42	3.5	2.7- 6.3	SL	11	288.9
LIPARIS ATLANTICUS	4	3	4.2	3.4- 5.7	TL		10	8	3.5	3.0- 5.0	TL		2.8
SCORPHTHALMUS AQUOSUS	3	2	2.8	2.7- 2.8	SL							1.0	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	8.8		SL							0.3	
LIMANDA FERRUGINEA	55	53	6.7	3.4- 9.2	SL		70	25	5.9	4.8- 7.4	SL		28.2
PSEUDOPLEURONECTES AMERICANUS	3	3	5.2	5.1- 5.3	SL		1	1	5.0		SL		1.1
ADDITIONAL LARVAE CAUGHT BLENNIIDAE													
.....													
B 3 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCHELIOPOUS CIMBRIUS	20	19	5.8	1.6- 31.7	SL	10	1	1	4.5		SL	0	6.7
GADUS MORHUA	7	7	6.1	3.4- 7.0	SL	0	1	1	7.2		SL	0	2.4
MERLUCCIIUS BILINEARIS	15	15	2.9	2.1- 4.4	NL	0	4	4	2.5	2.4- 2.8	NL	0	5.8
TAUTOGA ONITIS	2	1	2.4		TL								0.7
TAUTOGLABRUS ADSPERSUS	920	874	3.7	2.2- 6.2	TL		9	9	4.0	3.5- 4.5	TL		316.6
SCOMBER SCOMBRUS	256	80	4.2	2.6- 8.2	SL	102	12	12	4.8	3.1- 6.9	SL	6	85.3
LIPARIS INQUILINUS	1	1	4.8		TL		10	7	3.8	2.8- 6.0	TL		3.6
GLYPTOCEPHALUS CYNOGLOSSUS	18	15	4.8	3.4- 10.2	SL		1	1	7.2		SL		6.0
LIMANDA FERRUGINEA	129	25	6.5	4.1- 8.2	SL		199	25	5.4	3.9- 7.2	SL		105.0
ADDITIONAL LARVAE CAUGHT BLENNIIDAE													
.....													
B 4 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCHELIOPOUS CIMBRIUS	73	22	3.4	1.6- 5.9	SL	13	7	7	3.2	1.9- 4.6	SL	2	24.3
GADUS MORHUA	2	2	3.6	2.9- 4.2	SL	0						0	0.7
MERLUCCIIUS BILINEARIS	15	14	3.3	2.8- 4.1	NL	20	6	3	3.6	2.7- 5.0	NL	7	6.5
TAUTOGLABRUS ADSPERSUS	329	316	3.7	2.3- 5.2	TL		6	6	3.6	3.2- 4.4	TL		109.7
SCOMBER SCOMBRUS	265	51	4.7	2.9- 8.4	SL	110	11	11	3.5	2.7- 6.6	SL	6	88.3
LIPARIS INQUILINUS CR ATLANTICUS	1	1	5.2		TL		27	15	4.8	3.9- 6.2	TL		9.3
GLYPTOCEPHALUS CYNOGLOSSUS	20	14	4.9	3.4- 7.7	SL		4	2	4.6	4.1- 5.0	SL		7.3
LIMANDA FERRUGINEA	173	25	5.7	3.2- 8.4	SL		283	25	5.1	4.2- 6.2	SL		146.2
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
B 5 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCHELIOPOUS CIMBRIUS	147	42	2.5	1.1- 4.6	SL	6	85	33	3.7	1.5- 27.5	SL	72	72.4
MELANOGRAMMUS AEGLEFINUS						0	1	1	9.0		SL	0	0.3
UROPHYCIS CHUSS	1	1	1.3		NL		1	1	1.4		NL		0.6
MERLUCCIIUS BILINEARIS	120	116	3.3	2.4- 5.7	NL	1	62	56	3.3	2.4- 4.7	NL	64	56.7
TAUTOGLABRUS ADSPERSUS	63	60	3.5	2.4- 4.7	TL		127	122	3.7	1.9- 5.0	TL		61.2
SCOMBER SCOMBRUS	331	72	3.3	2.3- 8.7	SL	110	121	43	4.4	2.6- 9.0	SL	137	159.6
LIPARIS INQUILINUS							1	1	11.0		TL		0.3
SCORPHTHALMUS AQUOSUS	1	1	3.7		SL								0.3
GLYPTOCEPHALUS CYNOGLOSSUS	57	54	5.5	3.5- 9.2	SL		61	58	6.8	3.4- 9.6	SL		37.4
LIMANDA FERRUGINEA	440	50	5.9	3.3- 10.2	SL		612	25	5.3	3.8- 8.1	SL		326.0

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED P 6 18 06	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS	
	NUMBER	LENGTHS (MM)		RANGE			MEAS.	NUMBER	LENGTHS (MM)		RANGE			MEAS.
	TOTAL MEAS.	MEAN	RANGE		MEAS.		TOTAL MEAS.	MEAN	RANGE		MEAS.			
	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
FACHELYOPUS CIMBRIUS	319	40	3.3	1.5- 4.7	SL	87	256	31	3.0	1.8- 4.7	SL	97	181.0	58.4
UPOMYXIS CHLIS	1	1	2.1		NL		1	1	1.4		NL		0.6	
MERLUCCIIUS BILINEARIS	24	24	3.9	2.7- 4.6	NL	0	60	60	3.7	2.9- 4.4	NL	3	27.2	1.0
TAUTOGLABRUS ADSPERSUS	50	49	4.1	2.8- 5.5	TL		73	68	3.9	2.8- 5.2	TL		39.3	
SCOMBER SCOMBRUS	121	64	4.2	2.6- 8.2	SL	1	154	60	4.1	2.5- 8.3	SL	0	87.6	0.3
GLYPTOCEPHALUS CYNOGLOSSUS	63	63	7.4	3.4- 10.4	SL		64	59	6.8	3.4- 9.7	SL		40.2	
LIMANDA FERRUGINEA	342	25	6.2	4.2- 8.5	SL		274	25	5.3	3.3- 8.1	SL		153.9	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
B 7 18 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
BENTHOSEMA GLACIAE							2	2	5.7	2.4- 11.1	SL		0.7	
CERATOSCOPELUS MADERENSIS							3	3	5.8	4.8- 7.7	SL		1.0	
CERATOSCOPELUS WARMINGI						411							0.0	137.0
LOPHIUS AMERICANUS	2	2	4.4	4.4- 4.5	TL		1	1	4.3		TL		0.9	
ENCHELYOPUS CIMBRIUS	269	46	3.1	1.9- 4.3	SL	12	291	36	3.0	1.7- 4.3	SL	10	177.7	6.5
MELANOGRAMMUS AEGIEFINUS	2	2	5.1	3.4- 6.9	NL	0	1	1	12.6		SL	0	0.9	0.0
MERLUCCIIUS BILINEARIS	1	1	3.1		NL	0						1	0.3	0.3
TAUTOGLABRUS ADSPERSUS	7	7	4.1	3.5- 4.7	TL		4	4	4.4	4.0- 5.0	TL		3.4	
SCOMBER SCOMBRUS	49	48	3.9	2.6- 7.2	SL	1	21	19	4.5	3.2- 6.3	SL	1	21.7	0.6
GLYPTOCEPHALUS CYNOGLOSSUS	14	13	9.8	8.1- 11.8	SL		9	9	7.1	4.2- 8.3	SL		7.2	
LIMANDA FERRUGINEA	112	25	6.5	4.1- 10.6	SL		61	25	6.0	4.2- 10.1	SL		53.9	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....														
C 1 19 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
LOPHIUS AMERICANUS	9	9	5.5	4.3- 10.5	TL								2.7	
ENCHELYOPUS CIMBRIUS	8	7	4.8	3.3- 8.2	SL	0							2.4	0.0
MERLUCCIIUS BILINEARIS	8	2	3.6	2.7- 4.5	NL	0							2.4	0.0
TAUTOGLABRUS ADSPERSUS	1	1	2.3		TL								0.3	0.0
SCOMBER SCOMBRUS	1	1	3.5		SL	0							0.3	0.0
LIPARIS INQUILINUS	1	1	9.0		TL								0.3	0.0
LIMANDA FERRUGINEA	2	1	12.6		SL								0.6	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE UNIDENTIFIED														
.....														
C 2 19 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-27M							
LOPHIUS AMERICANUS	15	15	4.9	3.0- 10.6	TL								4.9	
ENCHELYOPUS CIMBRIUS	15	15	8.0	3.0- 36.7	SL	0	10	9	5.1	4.2- 6.7	SL	0	6.8	0.0
MERLUCCIIUS BILINEARIS						0	1	1	2.9		NL	0	0.2	0.0
SCOMBER SCOMBRUS	13	13	9.3	6.3- 12.1	SL	4							4.3	1.3
LIMANDA FERRUGINEA	3	2	5.7	5.0- 6.3	SL		43	25	5.2	6.7- 12.2	SL		10.3	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE UNIDENTIFIED														
.....														
C 3 19 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
LOPHIUS AMERICANUS	2	2	3.7	3.2- 4.3	TL								0.7	
ENCHELYOPUS CIMBRIUS	116	28	8.0	3.4- 31.2	SL	0	25	22	6.1	3.1- 5.2	SL	0	43.1	0.0
GADUS MORHUA	1					0	3	3	14.7	11.9- 17.4	SL	0	1.3	0.0
MERLUCCIIUS BILINEARIS	2	2	4.1	4.1- 4.2	NL	0							0.7	0.0
TAUTOGLABRUS ADSPERSUS	13	13	4.3	3.5- 5.2	TL								4.3	
SCOMBER SCOMBRUS	195	181	6.8	4.1- 13.0	SL	2	2	2	5.5	5.4- 6.5	SL	0	65.0	0.7
SCOPHTHALMUS AQUOSUS	4	4	4.9	3.7- 6.1	SL								1.3	
GLYPTOCEPHALUS CYNOGLOSSUS	8	7	8.9	4.8- 13.7	SL		5	4	12.2	10.4- 13.7	SL		4.1	
LIMANDA FERRUGINEA	57	25	9.8	5.5- 14.6	SL		121	25	11.8	7.6- 13.7	SL		57.4	
.....														
C 4 19 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M							
LOPHIUS AMERICANUS	6	6	4.7	3.8- 6.6	TL								1.9	
ENCHELYOPUS CIMBRIUS	4	4	16.5	4.7- 31.7	SL	0							1.3	0.0
GADUS MORHUA	5	5	12.9	6.5- 19.2	SL	0	1	1	14.4		SL	0	1.7	0.0
SCOMBER SCOMBRUS	6	6	13.3	12.0- 14.6	SL	0							1.9	0.0
GLYPTOCEPHALUS CYNOGLOSSUS	2	2	13.7	9.6- 17.7	SL		4	5	9.0	6.6- 10.7	SL		1.6	
LIMANDA FERRUGINEA	75	25	12.3	5.8- 16.8	SL		100	25	11.6	5.9- 15.2	SL		39.2	
.....														
C 5 19 06	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
LOPHIUS AMERICANUS	4	4	9.4	4.6- 11.8	TL		1	1	11.0		TL		1.5	
ENCHELYOPUS CIMBRIUS	2	2	12.5	2.8- 22.2	SL	0	11	11	6.2	3.3- 15.1	SL	0	4.3	0.0
GADUS MORHUA	1	1	17.2		SL	0	2	2	12.3	8.4- 16.1	SL	0	1.0	0.0
SCOMBER SCOMBRUS	27	27	13.0	6.5- 18.9	SL	0	1	1	7.1		SL	0	9.0	0.0
LIPARIS INQUILINUS							1	1	4.0		TL		0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	4	4	10.9	8.7- 14.2	SL		19	19	10.4	6.7- 17.1	SL		7.5	
LIMANDA FERRUGINEA	148	25	12.0	5.6- 19.6	SL		326	25	10.4	4.7- 15.4	SL		153.1	

TABLE 3. (continued)

CRUISE DATE D66 7 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LAPVAE	EGGS
	NUMBER	LENGTHS (MM)				NUMBER	LENGTHS (MM)				
C 6 19 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BENTHOSEMA GLACIAE	3	2	6.6	6.5-6.7 SL						1.0	
LOPHIUS AMERICANUS	1	1	5.8	TL						0.3	
ENCHEL YOPUS CIMBRIUS	21	21	9.7	3.7-25.8 SL	0	36	36	5.0	2.6-12.6 SL	0	18.3 0.0
GADUS MORHUA					0	2	2	10.3	9.2-11.3 SL	0	0.7 C.C
MERLUCCIIUS BILINEARIS	1	1	5.2	NL	0	5	5	5.7	5.1-6.3 NL	0	2.0 0.0
TAUTOGOLABRUS ADSPERSUS						1	1	5.0	TL		0.3
SCOMBER SCOMBRUS	29	28	11.2	5.1-18.0 SL	0	3	3	6.2	4.2-8.3 SL	0	9.7 0.0
SCOPHTHALMUS AQUOSUS						1					0.3
GLYPTOCEPHALUS CYNOGLOSSUS	3	3	5.5	4.3-6.6 SL		23	23	7.4	4.6-19.7 SL		8.6
LIMANDA FERRUGINEA	89	25	11.9	4.2-17.8 SL		363	25	7.4	3.9-16.0 SL		147.7
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED					
C 7 19 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BENTHOSEMA GLACIAE	15	15	6.5	5.0-7.5 SL		1	1	4.9	SL		5.0
ENCHEL YOPUS CIMBRIUS	16	16	7.0	2.2-23.3 SL	0	1	1	6.4	SL	0	5.3 0.0
GADUS MORHUA	1	1	8.4	SL	0					0	0.3 C.C
MERLUCCIIUS BILINEARIS	4	3	6.3	5.8-6.9 NL	0					0	1.3 0.0
SCOMBER SCOMBRUS	26	26	9.8	3.9-17.6 SL	0	2	2	10.8	5.2-16.5 SL	0	8.7 0.0
GLYPTOCEPHALUS CYNOGLOSSUS	5	5	11.9	8.0-19.9 SL		3	1	17.0	SL		2.5
LIMANDA FERRUGINEA	242	25	9.4	4.9-18.7 SL		37	25	10.6	4.4-17.8 SL		64.9
ADDITIONAL LARVAE CAUGHT						MYCTOPHIDAE					
C 8 19 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LOPHIUS AMERICANUS	1	1	6.1	TL		1	1	5.3	TL		0.6
ENCHEL YOPUS CIMBRIUS					1	1	1	6.6	SL	1	0.3
MERLUCCIIUS BILINEARIS	2	2	4.9	4.7-5.1 NL	4					1	0.7 1.5
SCOMBER SCOMBRUS	71	71	5.8	4.5-13.4 SL	0					0	23.7 0.0
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	12.0	SL		1	1	12.5	SL		0.6
LIMANDA FERRUGINEA	10	10	9.1	5.5-13.2 SL		6	6	6.3	4.9-8.4 SL		5.0
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED					
C 1 20 06	SAMPLING DEPTH 0-6M										
LOPHIUS AMERICANUS	2	2	5.3	5.3-5.3 TL							0.2
ENCHEL YOPUS CIMBRIUS	15	14	3.1	1.5-7.1 SL	0						1.8 0.0
TAUTOGOLABRUS ADSPERSUS	4	3	2.0	1.9-2.1 TL							0.5
SCOPHTHALMUS AQUOSUS	8	8	2.8	2.1-4.1 SL							1.0
ADDITIONAL LARVAE CAUGHT						SYNGNATHIDAE BALISTIIDAE TETRAODONTIDAE					
D 2 20 06	SAMPLING DEPTH 0-6M										
LOPHIUS AMERICANUS	5	5	6.6	4.1-13.0 TL							0.6
ENCHEL YOPUS CIMBRIUS	7	7	8.2	3.3-23.5 SL	0						0.8 0.0
SCOMBER SCOMBRUS	2	2	9.7	8.4-11.1 SL	0						0.2 0.0
LIMANDA FERRUGINEA	3	3	8.0	6.2-10.2 SL							0.4
ADDITIONAL LARVAE CAUGHT						TETRAODONTIDAE					
D 3 20 06	SAMPLING DEPTH 0-15M										
LOPHIUS AMERICANUS	2	2	9.5	7.0-12.0 TL							0.6
ENCHEL YOPUS CIMBRIUS	2	2	3.8	3.5-4.0 SL	0						0.6 C.C
SCOMBER SCOMBRUS	1	1	18.0	SL	0						0.3 0.0
SCOPHTHALMUS AQUOSUS	3	3	2.6	2.5-2.6 SL							0.9
LIMANDA FERRUGINEA	7	6	10.0	5.7-14.1 SL							2.1
D 4 20 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
LOPHIUS AMERICANUS	4	4	14.5	12.6-18.3 TL		16	16	12.9	9.5-17.2 TL		3.8
ENCHEL YOPUS CIMBRIUS	2	2	18.4	18.0-18.8 SL	0	29	29	9.3	3.0-30.5 SL	0	5.3 0.0
SCOMBER SCOMBRUS	4	4	22.8	21.9-23.8 SL	0	1	1	21.2	SL	0	1.4 0.0
LIPARIS INQUILINUS						1	1	3.0	TL		0.2
SCOPHTHALMUS AQUOSUS						3	3	7.6	7.3-8.3 SL		0.5
GLYPTOCEPHALUS CYNOGLOSSUS						6	6	11.3	8.4-20.0 SL		1.0
LIMANDA FERRUGINEA	4	4	15.0	13.2-17.2 SL		116	25	11.5	4.6-16.0 SL		20.0
D 5 20 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LOPHIUS AMERICANUS						2	2	11.0	11.0-11.0 TL		0.7
ENCHEL YOPUS CIMBRIUS	3	3	17.7	16.7-18.9 SL	0	9	7	12.9	4.6-23.0 SL	0	3.9 C.C
SCOMBER SCOMBRUS	30	30	17.9	15.4-21.4 SL	0					0	10.0 0.0
LIPARIS INQUILINUS						2	2	11.5	11.0-12.0 TL		0.7
GLYPTOCEPHALUS CYNOGLOSSUS						5	5	9.1	6.8-10.7 SL		1.7
LIMANDA FERRUGINEA	12	12	15.7	14.6-17.6 SL		219	25	5.5	5.0-14.7 SL		76.6

TABLE 3. (continued)

89

CRUISE DATE D 66 7 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10 ² LARVAE EGGS	
	NUMBEF TOTAL MEAS.	LENGTHS (MM) MEAN	RANGE	MEAS.	NO. EGGS	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN	RANGE	MEAS.	NO. EGGS		
F 1 28 06	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	11	11	9.5	7.0-14.4	TL						1.3	
ANCHOA MITCHILLI	976	115	6.6	3.7-12.2	TL						118.3	
CYNOSEION SP.	44	42	3.1	2.2-4.6	SL						5.3	
MENTICIRRHUS SP.	1	1	3.2		SL						0.1	
PRICNOTUS CARLINUS	1	1	5.0		SL						0.1	
SCOPHTHALMUS AQUOSUS	3	3	3.9	2.7-5.1	SL						0.4	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE TETRAODONTIDAE												
F 2 28 06	SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS	2	2	8.0	8.0-8.1	TL						0.2	
ANCHOA MITCHILLI	333	63	4.5	2.5-9.3	TL						40.4	
CYNOSEION SP.	25	25	2.9	2.5-4.0	SL						3.0	
MENTICIRRHUS SP.	2	1	2.1		SL						0.2	
TAUTOGA ONITIS	2	2	3.2	2.9-3.6	TL						0.2	
TAUTOGLABRUS ADSPERSUS	3	3	3.1	2.9-3.5	TL						0.4	
PRICNOTUS CARLINUS	3	3	3.3	3.0-3.5	SL						0.4	
HIPPOGLOSSINA OBLONGUS	1	1	3.2		SL						0.1	
SCOPHTHALMUS AQUOSUS	1	1	3.4		SL						0.1	
ADDITIONAL LARVAE CAUGHT CPYRIDIIAE ATHERINIDAE TETRAODONTIDAE UNIDENTIFIED												
F 3 28 06	SAMPLING DEPTH 0-15M											
ANCHOA HEPSETUS	28	22	4.9	2.8-7.8	TL						8.5	
ANCHOA MITCHILLI	27	22	4.9	2.8-7.8	TL						8.2	
MYCTOPHIDAE	5	4	2.3	2.1-2.5	SL						1.5	
UFOPHYCIS CHUSS	2	2	2.5	1.3-3.7	NL						0.6	
CYNOSEION SP.	2	2	2.4	2.2-2.6	SL						0.6	
TAUTOGA ONITIS	1	1	2.7		TL						0.3	
PRICNOTUS CARLINUS	6	6	2.6	2.1-3.1	SL						1.8	
SCOPHTHALMUS AQUOSUS	11	10	3.2	2.2-5.8	SL						3.3	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	10.3		SL						0.3	
ADDITIONAL LARVAE CAUGHT TETRAODONTIDAE UNIDENTIFIED												
F 4 28 06	SAMPLING DEPTH 0-15M											
LOPHIUS AMERICANUS	4	4	4.1	3.8-4.8	TL						1.2	
ENCHELYPUS CIMBRIUS	1	1	42.4		SL	0					0.3	
UFOPHYCIS CHUSS	5	5	2.1	1.4-3.2	NL						1.5	
TAUTOGA ONITIS	1	1	3.1		TL						0.3	
TAUTOGLABRUS ADSPERSUS	5	5	4.1	3.1-5.4	TL						1.5	
HIPPOGLOSSINA OBLONGUS	1	1	4.2		SL						0.3	
LIMANDA FERRUGINEA	1	1	5.7		SL						0.3	
ADDITIONAL LARVAE CAUGHT STROMATEIDAE UNIDENTIFIED												
F 5 28 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYPUS CIMBRIUS						0	1	1	32.0	SL	0	0.3
TAUTOGLABRUS ADSPERSUS	2	2	3.6	3.5-3.8	TL						0.7	
LIPARIS INQUILINUS							2	2	5.8	9.7-10.0	TL	0.7
GLYPTOCEPHALUS CYNOGLOSSUS							5	5	12.8	9.7-17.6	SL	1.7
LIMANDA FERRUGINEA							121	25	8.9	6.5-14.1	SL	40.3
F 6 28 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
MELANOGRAMMUS AEGAEFINUS						0	1	1	22.8	SL	0	0.3
LIMANDA FERRUGINEA							1	1	8.7	SL		0.3
F 7 28 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
MYCTOPHIDAE							1	1	8.6	SL		0.3
CERATOSCOPELUS MADERENSIS	2	2	6.3	5.7-7.0	SL						0.7	
LOPHIUS AMERICANUS							1	1	10.3	TL		0.3
UFOPHYCIS CHUSS	9	9	1.8	1.2-3.6	NL						3.0	
TAUTOGLABRUS ADSPERSUS	1	1	7.0		TL						0.3	
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	23.7	SL		0.3
LIMANDA FERRUGINEA	1	1	8.2		SL		19	19	9.8	5.7-13.2	SL	6.6
G 1 28 06	SAMPLING DEPTH 0-3M											
ANCHOA MITCHILLI	3	3	5.5	2.9-7.7	TL						0.2	
CYNOSEION SP.	7	6	3.7	2.9-4.4	SL						0.4	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED.	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LIVFAE	2 EGGS	
	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS			
G 2 28 06	SAMPLING DEPTH 0-6M												
TAUTOGA ONITIS	4	3	3.3	2.8-3.8	TL						0.5		
CITHARICHTHYS ARCTIFRONS	18	15	2.3	2.0-2.5	SL						2.2		
HIPPOGLOSSINA OBLONGUS	2	1	3.3		SL						0.2		
SCORPHTHALMUS AQUOSUS	4	1	2.7		SL						0.5		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
G 3 28 06	SAMPLING DEPTH 0-6M												
LEPHTIUS AMERICANUS	1	1	3.6		TL						0.1		
TAUTOGA ONITIS	1	1	2.8		TL						0.1		
ETRECPUS MICROSTOMUS	1	1	2.0		SL						0.1		
SCORPHTHALMUS AQUOSUS	1	1	2.3		SL						0.1		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
G 4 28 06	SAMPLING DEPTH C-15M												
LEPHTIUS AMERICANUS	1	1	14.0		TL						0.3		
SCOMBER SCOMBRUS	26	26	34.5	28.3-44.1	SL	0					7.9	0.0	
LIMANDA FERRUGINEA	15	15	10.5	7.6-14.4	SL						4.5		
G 5 27 06	SAMPLING DEPTH C-15M					SAMPLING DEPTH 1E-33M							
BENTHOSEMA GLACIALE	1	1	7.6		SL	3	3	4.8	4.1-5.4	SL	1.3		
LEPHTIUS AMERICANUS	5	4	22.9	13.9-30.0	TL						1.7		
ENCYLIYOPIUS CINBRIUS	2	2	28.1	27.6-28.5	SL	0	2	39.3	36.5-42.0	SL	0	0.0	
GADUS MORHUA						0	1	11.3		SL	0	0.0	
SCOMBER SCOMBRUS	4	4	36.2	33.9-38.6	SL	0					1.3	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	17.5		SL						0.3	0.0	
LIMANDA FERRUGINEA	105	25	12.1	7.8-15.1	SL		59	25	13.1	5.6-17.6	SL	51.2	
G 6 27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M							
BENTHOSEMA GLACIALE	13	13	5.5	4.9-6.9	SL						4.3		
CERATOSCOPELUS MADERENSIS	3	3	7.6	5.4-8.9	SL						1.0		
LEPHTIUS AMERICANUS	3	3	8.0	4.4-9.9	TL						1.0		
SARCA SARCA						1					0.0	0.3	
LIMANDA FERRUGINEA	8	8	10.1	7.7-13.2	SL		6	6	5.5	8.7-10.4	SL	4.4	
H 1 27 06	SAMPLING DEPTH 0-3M												
ANCHOA MITCHILLI	1915	148	4.4	1.7-6.9	TL						116.0		
CYNOSCION SP.	2	2	2.7	2.1-3.4	SL						0.1		
TAUTOGA ONITIS	1	1	3.5		TL						0.1		
SARCA SARCA						3					0.0	0.2	
PEPRILUS TRIACANTHUS	1	1	12.3		SL						0.1		
PRIONOTUS CAROLINUS	2	2	4.4	4.4-4.4	SL						0.1		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
H 2 27 06	SAMPLING DEPTH C-6M												
ANCHOA MITCHILLI	514	56	5.0	2.8-7.1	TL						62.3		
CENTROPRISTIS STRIATA	1	1	4.6		SL						0.1		
CYNOSCION SP.	2	2	3.0	3.0-3.0	SL						0.2		
MENICIRRHUS SP.	19	18	2.6	2.1-3.2	SL						2.3		
TAUTOGA ONITIS	19	15	4.1	2.5-6.3	TL						2.3		
SARCA SARCA	4	4	4.0	3.6-4.6	SL	0					0.5	0.0	
PEPRILUS TRIACANTHUS	59	59	3.0	2.2-8.5	SL						7.2		
PRIONOTUS CAROLINUS	19	19	4.2	3.1-6.1	SL						2.3		
ETRECPUS MICROSTOMUS	38	34	2.7	2.0-4.3	SL						4.6		
HIPPOGLOSSINA OBLONGUS	13	12	3.6	2.5-4.7	SL						1.6		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
SYNGNATHIDAE													
URANOSCOPICAE													
BLENNIIDAE													
STROMATEIDAE													
UNIDENTIFIED													
H 3 27 06	SAMPLING DEPTH 0-6M												
ANCHOA MITCHILLI	65	61	4.4	1.4-6.3	TL						7.9		
CYNOSCION SP.	1	1	3.2		SL						0.1		
MENICIRRHUS SP.	11	11	2.7	2.3-3.1	SL						1.3		
TAUTOGA ONITIS	1	1	5.0		TL						0.1		
PRIONOTUS CAROLINUS	2	2	3.9	3.3-4.5	SL						0.2		
ETRECPUS MICROSTOMUS	3	3	3.1	3.0-3.2	SL						0.4		
HIPPOGLOSSINA OBLONGUS	13	13	3.4	2.7-5.5	SL						1.6		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

TABLE 3. (continued)

91

CRUISE DATE STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	NO. PER 10M EGGS	
		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.			
H 4	27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
	UFOPHYCIS CHUSS	2	1	3.1	NL						0.6		
	MENTIC IRRHUS SP.	1	1	2.2	SL						0.3		
	TAUTOGA ONITIS	1	1	4.4	TL						0.3		
	PRIONOTUS CARLINIUS	5	5	2.6	1.8- 3.9 SL						1.6		
	ETROPLUS MICROSTOMUS	3	3	3.1	2.5- 3.7 SL						1.0		
	HIPPOGLOSSINA OBLONGUS	1	1	3.4	SL						0.3		
	LIMANDA FERRUGINEA					3	3	7.1	6.6- 7.5 SL		0.5		
	ADDITIONAL LARVAE CAUGHT	STROMATEIDAE UNIDENTIFIED											
.....													
H 5	27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	LOPHIUS AMERICANUS					1	1	31.5	TL		0.3		
	PRIONOTUS CARLINIUS	1	1	3.1	SL						0.3		
	LIMANDA FERRUGINEA					8	8	8.9	6.4-10.1 SL		2.7		
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
H 6	27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	BENTHOSEMA GLACIAE					7	6	6.5	6.0- 7.4 SL		2.3		
	LOPHIUS AMERICANUS	1	1	4.5	TL						0.3		
	ENCHELYOPUS CIMBRIUS					0	1	7.7	SL	0	0.3	0.0	
	MERLUCCIIUS BILINEARIS	1	1	6.3	NL	0				0	0.3	0.0	
	SCOMBER SCOMBERUS	1	1	15.9	SL	0				0	0.3	0.0	
	LIMANDA FERRUGINEA	10	10	8.0	4.4-10.2 SL		17	17	7.5	6.1-10.6 SL	8.7		
	ADDITIONAL LARVAE CAUGHT	MYCTOPHIDAE UNIDENTIFIED											
.....													
H 7	27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	MYCTOPHIDAE					3	3	6.1	5.5- 7.4 SL		1.0		
	BENTHOSEMA GLACIAE	1	1	10.5	SL	3	3	8.3	7.8- 9.2 SL		1.3		
	UFOPHYCIS CHUSS	1	1	1.4	NL						0.3		
	MERLUCCIIUS BILINEARIS					0				1	0.0	0.3	
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
.....													
J 1	26 06	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHILLI	1279	243	3.5	1.5- 6.8 TL						155.0		
	ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE											
.....													
J 2	26 06	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHILLI	6	6	2.8	2.5- 3.1 SL						0.7		
	CYNOSSION SP.	4	4	2.9	2.1- 4.0 SL						0.5		
	PRIONOTUS CARLINIUS	4	4	2.1	1.8- 2.2 SL						0.5		
	CITHARICHTHYS ARCTIFRONS	1	1	2.7	SL						0.1		
	ETROPLUS MICROSTOMUS	2	2	3.5	2.5- 4.4 SL						0.2		
	HIPPOGLOSSINA OBLONGUS												
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
J 3	26 06	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHILLI	122	30	3.2	1.5- 5.5 TL						14.8		
	MENTIC IRRHUS SP.	3	3	2.9	2.7- 3.2 SL						0.4		
	SARCA SARDA					9					0.0	1.1	
	PRIONOTUS CARLINIUS	3	2	2.7	2.7- 2.8 SL						0.4		
	HIPPOGLOSSINA OBLONGUS	2	2	2.6	2.5- 2.6 SL						0.2		
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
J 4	26 06	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHILLI	57	53	4.1	1.6- 5.8 TL						6.9		
	UFOPHYCIS CHUSS	4	4	2.3	2.0- 2.6 NL						0.5		
	MENTIC IRRHUS SP.	5	3	2.2	1.9- 2.4 SL						0.6		
	TAUTOGA ONITIS	12	11	2.9	2.3- 3.7 TL						1.5		
	SARCA SARDA	4	3	3.5	3.3- 3.8 SL						0.5	0.5	
	PEPILUS TRIACANTHUS	6	6	3.0	2.1- 3.7 SL		4				0.7		
	PRIONOTUS CARLINIUS	316	22	2.5	2.1- 2.9 SL						28.3		
	ETROPLUS MICROSTOMUS	41	39	3.1	2.2- 4.6 SL						5.0		
	HIPPOGLOSSINA OBLONGUS	35	33	3.2	2.1- 4.8 SL						4.2		
	ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE UNIDENTIFIED											
.....													
J 5	26 06	SAMPLING DEPTH 0-15M											
	MENTIC IRRHUS SP.	1	1	2.3	SL						0.3		
	TAUTOGA ONITIS	3	3	3.1	2.4- 3.9 TL						0.9		
	PEPILUS TRIACANTHUS	5	5	7.6	2.1-26.4 SL						1.5		
	ETROPLUS MICROSTOMUS	5	4	3.8	3.4- 4.2 SL						1.5		
	HIPPOGLOSSINA OBLONGUS	1									0.3		
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											

TABLE 3. (continued)

92

CRUISE DATE 0667 1966 STA. 04 SPECIES ANALYZED J 6 27 06	***** LARVAE *****					***** LARVAE *****					NO. PER 10 ² LARVAE	2 LO ² EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS. NO.	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS. NO.		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ANCHOA MITCHILLI	7	7	6.6	6.1-7.2	SL	1	1	4.7		TL	0.2	
BENTHOSEMA GLACIALE						3	3	7.5	6.1-9.7	SL	2.7	
LEPHIUS AMERICANUS	1	1	10.0		TL						0.3	
ENCHEL YOPUS CIMBRIUS											0.3	C.C.
UROPHYCIS CHUSS	5	4	2.9	2.5-3.2	NL	2	2	11.0	4.6-17.4	SL	1.6	
LIMANDA FERRUGINEA						4	4	11.7	9.1-14.2	SL	0.6	
.....												
J 7 27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE	6	6	6.7	6.4-7.6	SL						2.0	
LEPHIUS AMERICANUS	1	1	19.0		TL						0.3	
PRIONOTUS CAROLINUS	1	1	3.1		SL						0.3	
LIPARIS INQUILINUS						1	1	10.8		TL	0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	3	2	12.1	8.7-15.5	SL						1.0	
LIMANDA FERRUGINEA	56	25	10.4	7.5-13.3	SL	9	9	9.9	8.2-12.1	SL	19.8	
.....												
K 1 26 06	SAMPLING DEPTH 0-6M											
SARCA SARCA											0.0	1.9
.....												
K 2 26 06	SAMPLING DEPTH 0-15M											
ANCHOA MITCHILLI	29	29	3.3	1.5-6.8	TL						8.8	
SARCA SARCA											0.0	2.4
ETROPUS MICROSTOMUS	1	1	2.0		SL						0.3	
HIPPOGLOSSINA OBLONGUS	1										0.3	
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE											
	UNIDENTIFIED											
.....												
K 3 26 06	SAMPLING DEPTH 0-15M											
ANCHOA MITCHILLI	14	11	5.6	2.5-8.1	TL						4.2	
SARCA SARCA	1	1	3.3		SL						0.3	0.0
ETROPUS MICROSTOMUS	1	1	2.3		SL						0.3	
HIPPOGLOSSINA OBLONGUS	2	1	2.6		SL						0.6	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE											
	UNIDENTIFIED											
.....												
K 4 26 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
LEPHIUS AMERICANUS	2	2	4.3	4.3-4.3	TL						0.6	
UROPHYCIS CHUSS	1	1	1.9		NL						0.3	
TAUTOGA ONITIS	5	5	4.1	3.6-4.7	TL						1.6	
PEPILUS TRIACANTHUS	19	19	4.9	2.6-15.0	SL	4	4	11.6	5.8-17.5	SL	6.5	
PRIONOTUS CAROLINUS	3	3	3.4	2.8-4.0	SL						1.0	
BCTHUS OCCELLATUS						1	1	4.6		SL	0.2	
ETROPUS MICROSTOMUS	24	22	3.3	2.4-4.3	SL						7.8	
HIPPOGLOSSINA OBLONGUS	10	10	4.5	2.7-6.9	SL	1					3.2	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	30.2		SL						0.3	
LIMANDA FERRUGINEA						1	1	14.6		SL	0.2	
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE					SYNGONHTICAE						
	GOBIIDAE											
	STROMATEIDAE											
	UNIDENTIFIED											
.....												
K 5 25 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
LOPHIUS AMERICANUS	2	2	15.2	14.0-16.5	TL						0.6	
ENCHEL YOPUS CIMBRIUS						1	1	41.0		SL	0.2	0.0
TAUTOGOLABRUS ADSAEPESUS	1	1	4.3		TL						0.3	
SCOMBER SCOMBRUS	1	1	29.1		SL	0	2	27.0	25.7-28.3	SL	0.6	C.C.
PEPILUS TRIACANTHUS	3	3	6.9	5.8-9.0	SL	1	1	4.4		SL	1.1	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	11.0		SL	1	1	42.7		SL	0.5	
LIMANDA FERRUGINEA	1	1	14.1		SL	1	1	10.0		SL	0.5	
.....												
K 6 25 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE	5	4	7.6	6.7-8.2	SL	1	1	7.1		SL	1.8	
LOPHIUS AMERICANUS	2	2	5.8	4.7-6.9	TL	1	1	4.6		TL	0.9	
ENCHEL YOPUS CIMBRIUS						1	1	4.9		SL	0.3	0.0
UROPHYCIS CHUSS	6	4	3.0	2.1-3.9	NL						2.0	
MERLUCCIIUS BILINEARIS	1	1	7.8		NL						0.3	C.C.
TAUTOGOLABRUS ADSAEPESUS	1	1	6.2		TL						0.3	
LIMANDA FERRUGINEA	20	20	10.3	8.5-13.6	SL						17.3	
ADDITIONAL LARVAE CAUGHT						34 25 10.2 6.5-15.1 SL						
						CYCLOTHONE SP.						
						GOBIIDAE						
.....												
K 7 25 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
UROPHYCIS CHUSS	1	1	13.2		NL						0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					SERRANIDAE						

TABLE 3. (continued)

CRUISE DATE E66 7 1966 STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
		NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
L 1	23 06	SAMPLING DEPTH 0-6M										
	ANCHOVA MITCHILLI	14	14	4.8	1.2- 7.7 TL						1.7	
	CYNOCLION SP.	1									0.1	
	PEPRILUS TRIACANTHUS	3	3	3.5	3.2- 4.0 SL						0.4	
	ETRCPUS MICROSTOMUS	3	3	2.8	1.9- 4.2 SL						0.4	
	ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE SYNGNATHIDAE BLENNIIDAE GOBIIDAE										
.....												
L 2	22 06	SAMPLING DEPTH 0-6M										
	ANCHOVA MITCHILLI	24	23	3.8	1.9- 6.8 TL						2.9	
	CYNOCLION SP.	1	1	2.0	SL						0.1	
	PEPRILUS TRIACANTHUS	8	8	3.5	2.4- 7.1 SL						1.0	
	PRIONOTUS CAROLINUS	1	1	2.8	SL						0.1	
	ETRCPUS MICROSTOMUS	15	15	3.4	2.1- 4.7 SL						1.8	
	LEMANDA FERRUGINEA	2									0.2	
	ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE OPHIIDIIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED										
.....												
L 3	22 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M					
	ANCHOVA HEPSETUS	5	5	5.4	3.3-12.5 TL						1.6	
	MYCTOPHIDAE	2	2	4.8	3.7- 5.9 SL						0.6	
	BENTHOSEMA GLACIALE						1	1	8.0	SL	0.2	
	LCRPHIUS AMERICANUS	1	1	5.5	TL		4	4	5.8	4.3- 7.2 TL	1.0	
	UROPHYCIS CHUSS	2	2	3.0	2.9- 3.1 NL						0.6	
	CENTROPPISTIS STRIATA						2	2	5.7	5.5- 5.9 SL	0.3	
	PEPRILUS TRIACANTHUS	27	24	3.7	2.9- 4.9 SL		74	67	3.4	1.6- 8.7 SL	20.3	
	CYPRICHTHYS ARCFIFRONS						2	2	9.1	8.5- 9.7 SL	0.3	
	ETRCPUS MICROSTOMUS	13	13	3.6	2.6- 6.7 SL		2	1	3.9	SL	4.3	
	HIPPOGLOSSINA OBLONGUS						7	7	4.7	3.3- 5.8 SL	1.1	
	ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE MUGILIDAE UNIDENTIFIED					OPHIIDIIDAE TETRAODONTICAE					
.....												
L 4	22 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
	SARCINELLA ANCHOVIA	2	2	14.7	13.8-15.6 TL						0.7	
	MYCTOPHIDAE	1	1	3.8	SL						0.3	
	DIAPHUS SP.						1	1	5.3	SL	0.3	
	LCRPHIUS AMERICANUS	6	6	4.8	3.8- 5.7 TL		4	4	5.9	4.7- 8.9 TL	3.1	
	ENCHEL YOPUS CIMBRIUS	1	1	4.0	SL	0	3	1	4.4	SL	1.3	C. C
	PEPRILUS TRIACANTHUS	5	5	3.3	2.4- 4.3 SL		13	12	5.3	3.8- 6.6 SL	5.8	
	BETHUS OCELLATUS						1	1	17.0	SL	0.3	
	ETRCPUS MICROSTOMUS	4	4	5.0	4.1- 5.8 SL		1	1	5.1	SL	1.5	
	HIPPOGLOSSINA OBLONGUS	1	1	6.7	SL						0.3	
	ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE LABRIDAE OR SCARIDAE GOBIIDAE BALISTIDAE UNIDENTIFIED					SYNODONTICAE BLENNIIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED					
.....												
L 5	22 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
	ANCHOVA HEPSETUS	5	5	8.1	4.9-12.6 TL						1.7	
	BENTHOSEMA GLACIALE	1	1	7.4	SL		2	2	5.5	5.3- 5.8 SL	1.0	
	LCRPHIUS AMERICANUS	6	6	6.3	4.6- 9.4 TL		1	1	5.4	TL	2.1	
	ENCHEL YOPUS CIMBRIUS					0	1	1	4.1	SL	0.3	C. C
	UROPHYCIS CHUSS	1	1	4.1	NL						0.3	
	MENTICIRRHUS SP.						1	1	4.1	SL	0.3	
	PEPRILUS TRIACANTHUS	30	30	4.2	1.9- 7.3 SL		3	3	4.0	3.9- 4.0 SL	10.0	
	ETRCPUS MICROSTOMUS	6	5	4.7	3.6- 6.2 SL						2.0	
	HIPPOGLOSSINA OBLONGUS	5	5	4.5	3.1- 6.4 SL		1	1	2.8	SL	1.8	
	LEMANDA FERRUGINEA						2	1	13.7	SL	0.7	
	ADDITIONAL LARVAE CAUGHT	LOPHIICOMES OPHIIDIIDAE CARANGIDAE GOBIIDAE STROMATEIDAE TRIGLIDAE BALISTICAE UNIDENTIFIED					OPHIIDIIDAE GOBIIDAE BALISTIDAE UNIDENTIFIED					
.....												
P 1	23 06	SAMPLING DEPTH 0-6M										
	MENTICIRRHUS SP.	1	1	3.4	SL						0.1	

TABLE 3. (continued)

CRUISE DATE D66 7 1966 STA. D M SPECIES ANALYZED # 5 23 06	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	EGGS
	NUMBER	LENGTHS (MM)				NUMBER	LENGTHS (MM)				
	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.			
	SAMPLING DEPTH 0-15M				SAMPLING DEPT 18-33M						
MEGALOPS ATLANTICA	2	2	10.4	9.0-11.8	NL					0.7	
OPHICHTHIDAE	1	1	37.0		TL					0.3	
AFTERICHTHUS KENDALLI						1	1	18.0	TL	0.3	
CALLEICHELYS PERRYAE	1	1	58.0		TL					0.3	
MYRICHTHYS SP.						1	1	18.0	NL	0.3	
OPHICHTHUS GOMESI	2	2	39.5	25.0-54.0	TL	3	3	30.3	20.7-44.8	TL	1.6
ENGRAULIS EURYSTOLE	134	33	7.7	2.0-13.7	TL	7	6	5.4	6.9-12.7	TL	44.7
MYCTOPHIDAE	4	4	4.6	4.0-5.0	SL	11	8	4.4	3.7-5.5	SL	4.9
CERATOSCOPELUS MADERENSIS	4	4	5.8	5.1-6.7	SL	1	1	7.6		SL	1.5
CERATOSCOPELUS WARMINGI	2	2	5.6	5.5-5.7	SL	4	4	6.1	5.4-7.1	SL	1.9
DIAPHUS SP.	9	9	6.1	4.1-9.7	SL	4	4	6.6	4.9-9.5	SL	4.0
LAMPADENA SP.	2	2	5.5	5.3-5.7	SL						0.7
HEMANTHIS VIVANUS	9	8	5.2	3.6-8.2	SL	6	6	5.6	3.2-7.6	SL	4.7
LARIMUS FASCIATUS	2	2	3.5	3.3-3.7	SL						0.7
AUXIS SP.	193	182	5.4	2.8-9.7	SL	36	35	6.7	3.6-10.3	SL	89.9
ELTHYNNUS ALLETENATUS	2	2	6.8	5.4-8.2	SL	1	1	6.4		SL	0.9
KATSUONOS PELAMIS	5	5	5.9	5.1-6.5	SL						1.7
SCOMBROCRUS CAVALLA	2	2	5.9	5.7-6.1	SL						0.7
THUNNUS THYNNUS	1	1	5.4		SL						0.3
PEPRILUS TRIACANTHUS	12	11	4.6	2.2-7.0	SL						4.0
BCTHUS OCELLATUS	42	25	5.7	3.4-9.4	SL	79	25	5.5	3.3-12.2	SL	38.9
CYCLOPSETA FIMBRIATA	5	5	6.6	3.0-11.0	SL						1.7
ETREPLUS MICROSTOMIS	3	3	4.5	3.3-5.7	SL	6	6	4.0	3.2-5.5	SL	2.9
MONONE SESSILICAUDA	2	2	9.4	8.6-10.1	SL	1	1	7.1		SL	0.9
SYACIUM PAPILLOSUM	100	25	4.5	3.0-9.4	SL	14	14	4.2	2.3-7.0	SL	24.7
SYMPHYRUS SP.	23	19	5.4	3.3-10.7	SL	5	5	7.0	4.0-9.7	SL	8.6
ADDITIONAL LARVAE CAUGHT	CONGRIDAE					OPHICHTHIDAE					
	CYCLOTORNE SP.					CYCLOTORNE SP.					
	STOMIATIDAE					VINCIGERRIA SP.					
	SYNODONTIDAE					SYNODONTIDAE					
	PARALEPIDIDAE					PARALEPIDIDAE					
	LOPHIIFORMES					LOPHIIFORMES					
	BREGMACEROTIDAE					OPHIDIIDAE					
	OPHIDIIDAE					FISTULARIIDAE					
	MOLLOCENTRIDAE					SERRANIDAE					
	SERRANIDAE					LABRIDAE OR SCARIDAE					
	APOGONIDAE					CALLIONYMIDAE					
	CARANGIIDAE					GOBIIDAE					
	CORYPHAENIDAE					ACANTHURIDAE					
	POMACENTRIDAE					SCORPAENIDAE					
	LABRIDAE OR SCARIDAE					BALISTIDAE					
	SPHYRAENIDAE					UNIDENTIFIED					
	CALLIONYMIDAE										
	GOBIIDAE										
	GEMPYLIDAE										
	STROMATEIDAE										
	SCORPAENIDAE										
	TRIGLICAE										
	BALISTIDAE										
	TETRAODONTIDAE										
	UNIDENTIFIED										
.....											
A 1 24 06	SAMPLING DEPTH 0-15M										
ANCHOVA PSETTUS	1	1	13.5		TL						0.3
ENGRAULIS EURYSTOLE	10	10	11.8	5.8-16.5	TL						3.0
LARIMUS FASCIATUS	1	1	3.1		SL						0.3
PEPRILUS TRIACANTHUS	13	11	2.7	1.5-4.4	SL						3.9
PRIONOTUS CAROLINUS	38	28	3.3	2.5-4.8	SL						11.5
BCTHUS OCELLATUS	1	1	13.8		SL						0.3
SYACIUM PAPILLOSUM	1										0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTORNE SP.										
	SYNODONTIDAE										
	CARANGIIDAE										
	SCIAENIDAE										
	GOBIIDAE										
	TRICHIURIDAE										
	TRIGLICAE										
	BALISTIDAE										
	TETRAODONTIDAE										
	UNIDENTIFIED										
.....											
N 2 24 06	SAMPLING DEPTH 0-15M										
SARCIINELLA ANCHOVIA	2	2	12.1	8.1-16.2	TL						0.6
PEPRILUS TRIACANTHUS	4	4	2.4	1.8-3.4	SL						1.2
PRIONOTUS CAROLINUS	10	10	2.9	2.2-3.5	SL						3.0
ETREPLUS MICROSTOMIS	1	1	2.0		SL						0.3
SYACIUM PAPILLOSUM	1	1	3.0		SL						0.3
ADDITIONAL LARVAE CAUGHT	MURAENIDAE										
	OPHIDIIDAE										
	CARANGIIDAE										
	CALLIONYMIDAE										
	TRIGLICAE										
	BALISTIDAE										
	UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE 066 7 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.	NO. EGGS	NO. EGGS	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.	NO. EGGS	NO. EGGS		
N 3 24 06												
ENGRAULIS EURYSTOLE	6	6	6.4	4.6-9.5	TL						1.8	
HEMANTHIAS VIVANUS	1	1	3.0		SL						0.3	
AUXIS SP.	6	6	5.4	4.2-5.8	SL						1.8	
PEPRILUS TRIACANTHUS	13	12	2.4	1.5-3.0	SL						3.9	
BCTHUS OCCELLATUS	3	3	2.9	2.2-4.2	SL						0.9	
ETRCPIUS MICROSTOMUS	1	1	4.5		SL						0.3	
SYACIUM PAPILLOSUM	2	1	5.3		SL						0.6	
SYMPHURUS SP.	1	1	4.7		SL						0.3	
ADDITIONAL LARVAE CAUGHT	MURAENIDAE											
	EXOCELTIDAE											
	SERRANIDAE											
	CARANGIDAE											
	LABRIDAE OR SCARIDAE											
	UNIDENTIFIED											
.....												
N 4 24 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
OPHICHTHICAE	1	1	49.0		TL						0.3	
OPHICHTHUS GOMESI	2	2	33.2	23.5-43.0	TL						0.7	
OPHICHTHUS OCCELLATUS	1	1	15.0		TL						0.3	
ENGRAULIS EURYSTOLE	3	3	6.8	5.6-8.7	TL	7	7	10.5	5.6-13.8	TL	3.2	
MYCTOPHIDAE						3	2	3.4	3.4-3.4	SL	1.0	
CERATOSCOPELUS WARMINGI	1	1	4.4		SL						0.3	
DIAPHUS SP.						3	3	4.0	3.6-4.3	SL	1.0	
HYGOPHUM BENOITII						1	1	3.3		SL	0.3	
HYGOPHUM BENOITII OR MYGOMI	1	1	4.1		SL	3	3	4.2	3.8-5.5	SL	1.3	
LAMPANYCTUS ALATUS OR PHOTNOTUS						1	1	10.1		SL	0.3	
MYCTOPHUM SP.						7	6	4.5	3.6-5.6	SL	2.3	
MYCTOPHUM AFFINE						1	1	5.2		SL	0.3	
MYCTOPHUM SELBNOPS						1	1	6.0		SL	0.3	
AUXIS SP.	33	32	4.5	3.6-8.7	SL	14	14	4.3	3.5-5.4	SL	14.6	
SARCA SARDA											0.0	1.2
PEPRILUS TRIACANTHUS						1	1	3.3		SL	0.3	
BCTHUS OCCELLATUS	25	23	4.8	2.2-11.2	SL	20	19	4.2	2.6-6.7	SL	14.2	
CYCLOPSETTA FIMBRIATA	1	1	3.8		SL	1	1	4.5		SL	0.6	
SYACIUM PAPILLOSUM	23	20	3.4	2.5-5.0	SL	19	18	3.2	2.2-5.2	SL	13.2	
SYMPHURUS SP.	1	1	6.0		SL	8	4	5.6	3.6-9.2	SL	3.0	
ADDITIONAL LARVAE CAUGHT	SYNOdontIDAE					OPHICHTHICAE						
	LOPHIIFORMES					CYCLOTHONE SP.						
	OPHIDIIDAE					SYNOdontIDAE						
	SERRANIDAE					PARALEPIDIDAE						
	APOGONIDAE					SUDIS SP.						
	CARANGIDAE					LOPHIIFORMES						
	LABRIDAE OR SCARIDAE					OPHIDIIDAE						
	SPHYRAENIDAE					CARAPIDAE						
	BLENNIIDAE					SERRANIDAE						
	CALLIONYMIDAE					APOGONIDAE						
	GOBIIDAE					SCIAENIDAE						
	ISTIOPHICIDAE					LABRIDAE OR SCARIDAE						
	SCORPAENIDAE					GOBIIDAE						
	BALISTIDAE					ACANTHURIDAE						
	UNIDENTIFIED					SCORPAENIDAE						
						UNIDENTIFIED						
.....												
N 5 24 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ALBULA VULPES						1	1	6.4		NL	0.3	
SARDINELLA ANCHOVA	2	2	10.8	7.6-14.0	TL						0.7	
ENGRAULIS EURYSTOLE	7	7	11.2	9.2-13.0	TL	3	3	9.1	7.9-9.6	TL	3.1	
CERATOSCOPELUS MADRENSIS	1	1	9.2		SL						0.3	
CERATOSCOPELUS WARMINGI	2	2	5.3	5.2-5.4	SL						0.7	
LAMPANYCTUS ALATUS OR PHOTNOTUS	1	1	9.2		SL						0.3	
LAMPADENA SP.						2	2	3.5	3.8-4.0	SL	0.7	
MYCTOPHUM AFFINE						3	3	5.0	4.6-5.4	SL	1.0	
HEMANTHIAS VIVANUS	1	1	5.8		SL	1	1	4.6		SL	0.6	
AUXIS SP.	110	108	4.7	3.4-7.2	SL	55	55	5.2	4.3-9.7	SL	51.3	
BCTHUS OCCELLATUS	4	4	7.6	3.6-10.0	SL	13	12	5.2	4.0-7.6	SL	5.5	
ETRCPIUS MICROSTOMUS	1	1	4.8		SL	1	1	5.1		SL	0.6	
SYACIUM PAPILLOSUM	4	4	5.1	3.9-8.0	SL	25	25	4.2	2.4-6.0	SL	9.5	
SYMPHURUS SP.						4	4	4.1	3.1-5.8	SL	1.3	
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.					MURAENIDAE						
	SYNOdontIDAE					SYNOdontIDAE						
	LOPHIIFORMES					LOPHIIFORMES						
	HOLOCENTRIDAE					BREGMACEROTIDAE						
	SERRANIDAE					CAPROIDAE						
	APOGONIDAE					SERRANIDAE						
	CARANGIDAE					LABRIDAE OR SCARIDAE						
	LABRIDAE OR SCARIDAE					GOBIIDAE						
	CALLIONYMIDAE					SCORPAENIDAE						
	GOBIIDAE					BALISTIDAE						
	SCORPAENIDAE					TETRAODONTIDAE						
	BALISTIDAE					UNIDENTIFIED						
	UNIDENTIFIED											

TABLE 3. (continued)

98

CRUISE DATE		***** LARVAE *****			***** LARVAE *****				
D66 7 1966		NUMEEF	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10 ²	
STA. D M	SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LARVAE	
P 1	24 06	SAMPLING DEPTH 0-6M			SAMPLING DEPTH 0-6M			EGGS	
	ANCHOA HEPSETUS	2	2 17.3 9.7-25.0 TL					0.2	
	ADDITIONAL LARVAE CAUGHT	SCIAENIDAE BLENNIIDAE TRIGLICAE UNIDENTIFIED							
.....									
P 2	24 06	SAMPLING DEPTH 0-6M							
	SARCINELLA ANCHOVIA	6	6 5.5 3.0- 8.1 TL					0.7	
	ANCHOA HEPSETUS	1	1 17.0 TL					0.1	
	ENGRAULIS EURYSTOIE	96	1 16.8 TL					11.6	
	MENTICARRHUS SP.	8	6 2.7 1.9- 3.9 SL					1.0	
	PRIONOTUS CARLINIUS	9	9 3.3 1.6- 4.5 SL					1.1	
	SYMPHURUS SP.	2	2 3.8 3.3- 4.2 SL					0.2	
	ADDITIONAL LARVAE CAUGHT	SYNDONTIACE ATHERINIDAE SYNGNATHIDAE BLENNIIDAE STROMATEIDAE BALISTIDAE UNIDENTIFIED							
.....									
P 3	24 06	SAMPLING DEPTH 0-6M							
	ANCHOA HEPSETUS	2	2 16.7 15.0-18.5 TL					0.2	
	PEPILUS TRIACANTHUS	47	45 1.7 1.1- 2.1 SL					5.7	
	SYMPHURUS SP.	1	1 3.1 SL					0.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE GOBIIDAE BALISTIDAE UNIDENTIFIED							
.....									
P 4	24 06	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-24M				
	ENGRAULIS EURYSTOIE	5	3 8.9 7.5-10.3 TL					1.6	
	PRIONOTUS CARLINIUS	7	7 2.1 1.7- 2.7 SL	1	1 1.9 SL			2.3	
	ETRCIPUS MICROSTOMUS	2	2 2.9 2.9- 2.9 SL	1	2 2.8 2.8- 2.8 SL			0.8	
	SYMPHURUS SP.	5	5 2.9 2.5- 3.2 SL	1	1 3.1 SL			1.7	
	ADDITIONAL LARVAE CAUGHT	CARANGIDAE BLENNIIDAE BALISTIDAE UNIDENTIFIED			OPHIIDIIDAE BALISTIDAE UNIDENTIFIED				
.....									
P 5	25 06	SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
	ENGRAULIS EURYSTOIE				2	2 6.3 6.1-10.5 TL		0.7	
	MYCOPHIDAE	5	5 3.8 3.2- 4.2 SL		2	2 3.7 3.6- 3.9 SL		2.2	
	CERATOSCOPELUS MADRENSIS	9	9 7.8 5.7-11.4 SL		2	2 6.5 7.5- 9.6 SL		3.4	
	CERATOSCOPELUS WAKINGI	11	11 4.4 2.9- 5.9 SL	31	30 4.2 2.6- 7.7 SL			13.6	
	CIAFHUS SP.	7	7 5.5 4.0- 8.0 SL	10	10 5.4 3.1- 9.7 SL			5.4	
	LAMPANYCTUS SP.	2	2 3.8 3.3- 4.3 SL					0.7	
	LAMPANYCTUS ALATUS OR PHOTONOTUS			3	3 8.3 3.9-10.5 SL			1.0	
	LAMPANYCTUS ATER	1	1 6.7 SL					0.3	
	LAMPANYCTUS NOBILIS			2	2 5.6 5.2- 6.7 SL			0.7	
	LAMPADENA SP.	1	1 7.6 SL					0.3	
	ACANTHOCYBIUM SOLANDERI	3	3 4.8 2.6- 8.3 SL	1	1 6.2 SL			1.2	
	ALXIS SP.	6	6 3.8 2.9- 5.6 SL	4	4 5.2 4.8- 5.8 SL			3.1	
	KATSUNONUS PELAMIS			5	5 4.0 2.8- 5.9 SL			1.7	
	BCTHUS OCELLATUS	2	2 4.5 3.6- 5.4 SL	5	5 5.3 3.5- 6.7 SL			2.3	
	SYACIUM PAPILLOSUM			1	1 10.9 SL			0.3	
	ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. VINCIGUERRIA SP. STOMIATIDAE CAPROIDAE SERRANIDAE POMACENTRIDAE MUGILICAE BALISTIDAE TETRAODONTIDAE UNIDENTIFIED			CYCLOTHONE SP. STOMIATIDAE SYNDONTIACE CHLOROPHTHALMIDAE PARALEPIDIDAE CAPROIDAE SERRANIDAE APOGONIDAE CARANGIDAE LABRIDAE OR SCARIDAE CALLICNYMIDAE GEMPYLIDAE SCORPAENICAE TETRAODONTICAE UNIDENTIFIED				

TABLE 3. (continued)

CRUISE DATE D6610 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS	
	NUMBER	LENGTHS (MM)			NO.	NUMBER	LENGTHS (MM)			NO.			
A 1 C5 08	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS			
CERATOSCOPELUS MADEIRENSIS	1	1	8.2		SL							0.1	
ENCHELYOPUS CIMBRIUS												0.0	
UFORHYCIS CHUSS	13	10	3.3	2.1- 4.8	NL							1.6	
MERLUCCIIUS BILINEARIS	14	13	3.2	2.2- 5.6	NL							1.7	
TAUTOGA ONTIS	3	3	4.1	2.6- 5.6	TL							0.4	
TAUTOGLABRUS ADSPERSUS	25	25	7.2	4.8-11.4	TL							3.0	
PEPRILUS TRIACANTHUS	8	8	4.9	4.0- 7.0	SL							1.0	
PRICNOTUS CARLINUS	3	3	2.9	2.7- 3.0	SL							0.4	
HIPPUGLOSSINA OBLONGUS	12	6	5.4	2.7- 9.0	SL							1.5	
SCOPHTHALMUS AQUOSUS	6	6	3.5	2.6- 4.3	SL							0.7	
ADDITIONAL LARVAE CAUGHT SYNGNATHICÆ UNIDENTIFIED													
.....													
A 2 C5 08	SAMPLING DEPTH 0-15M												
UFORHYCIS CHUSS	33	13	2.7	1.6- 5.5	NL							10.0	
MERLUCCIIUS BILINEARIS	31	29	2.8	1.6- 5.1	NL	47						9.4	
TAUTOGLABRUS ADSPERSUS	4	4	6.1	4.1- 7.6	TL							1.2	
SCOMBER SCOMBRUS	1	1	7.7		SL	0						0.3	
PEPRILUS TRIACANTHUS	9	9	4.3	3.3- 5.8	SL							2.7	
HIPPUGLOSSINA OBLONGUS	9	9	3.9	2.4- 7.2	SL							2.7	
SCOPHTHALMUS AQUOSUS	39	38	3.7	2.4- 4.9	SL							11.8	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	14.7		SL							0.3	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
A 3 C5 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M							
CERATOSCOPELUS MADEIRENSIS	1	1	7.5		SL							0.3	
ENCHELYOPUS CIMBRIUS	4	4	4.4	2.9- 6.8	SL	0						1.3	
UFORHYCIS CHUSS	8	6	2.2	1.6- 2.7	NL		3	1	2.4			2.9	
MERLUCCIIUS BILINEARIS	41	34	4.0	2.2- 6.2	NL	73	20	20	5.8	2.2- 8.6	NL	18	15.8
TAUTOGA ONTIS	2	2	4.0	3.8- 4.3	TL							0.6	
TAUTOGLABRUS ADSPERSUS	5	5	5.8	3.7- 7.0	TL							1.6	
SCOMBER SCOMBRUS	1	1	3.5		SL	0						0.3	
PEPRILUS TRIACANTHUS	7	7	4.6	2.9- 5.5	SL							2.5	
HIPPUGLOSSINA OBLONGUS	6	4	2.7	2.4- 2.8	SL		2	2	2.4	2.3- 2.6	SL	0	2.5
SCOPHTHALMUS AQUOSUS	26	26	4.1	3.0- 6.2	SL		14	14	4.4	3.0- 6.7	SL	10.2	
LIMANDA FERRUGINEA	1	1	7.3		SL		2	2	7.4	6.1- 8.7	SL	0.6	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
A 4 C5 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M							
CERATOSCOPELUS MADEIRENSIS	2	2	6.8	6.5- 7.2	SL							0.7	
ENCHELYOPUS CIMBRIUS	1	1	2.8		SL	5	11	9	3.0	1.6- 4.3	SL	0	4.0
UFORHYCIS CHUSS	72	12	2.2	1.3- 3.7	NL			1	4.3			24.0	
MERLUCCIIUS BILINEARIS	217	193	3.1	1.6- 5.7	NL	119	54	49	5.1	2.4- 6.9	NL	4	13.1
TAUTOGLABRUS ADSPERSUS	2	2	6.5	5.0- 8.1	TL							0.7	
PEPRILUS TRIACANTHUS	2	2	2.4	1.7- 3.1	SL							0.7	
HIPPUGLOSSINA OBLONGUS	13	7	2.5	2.2- 2.8	SL							4.3	
SCOPHTHALMUS AQUOSUS	12	12	2.9	2.2- 4.4	SL							4.0	
GLYPTOCEPHALUS CYNOGLOSSUS	3	2	7.8	5.9- 9.7	SL		7	4	4.4	5.0-10.6	SL	3.2	
LIMANDA FERRUGINEA							32	23	7.0	4.6-11.4	SL	10.7	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
A 5 C5 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M							
CERATOSCOPELUS MADEIRENSIS							1	1	7.0			0.3	
ENCHELYOPUS CIMBRIUS	42	41	3.4	1.7- 5.7	SL	11	22	22	3.4	2.1- 4.8	SL	5	19.9
UFORHYCIS CHUSS	11	11	3.5	1.5- 7.9	NL		28	12	3.7	2.1- 5.2	NL		12.6
MERLUCCIIUS BILINEARIS	144	141	5.0	2.7- 8.1	NL	6	120	116	5.3	2.1- 8.6	NL	8	13.2
TAUTOGLABRUS ADSPERSUS	8	8	6.4	4.5- 8.6	TL		9	9	4.7	2.8- 8.5	TL		5.4
SARCA SARCA	3	3	4.4	4.3- 4.5	SL	0	1	1	3.6			0	1.2
PEPRILUS TRIACANTHUS	14	13	3.6	1.6- 8.0	SL		23	22	3.0	2.0- 6.5	SL		11.9
CITHARICHTHYS ARCTIFRONS	13	13	6.7	6.0- 8.6	SL		23	23	6.4	4.5- 8.3	SL		11.6
HIPPUGLOSSINA OBLONGUS	11	11	5.7	3.9- 7.1	SL		7	7	5.6	4.7- 6.6	SL		5.6
GLYPTOCEPHALUS CYNOGLOSSUS	8	5	5.1	3.3- 6.4	SL		10	9	7.8	4.2-15.2	SL		5.7
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

TABLE 3. (continued)

100

CRUISE DATE D661C 1966 STA. D 4 A 6 05 08	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER	MEAN	LENGTHS (MM)	RANGE	MEAS.		NUMBER	MEAN	LENGTHS (MM)	RANGE	MEAS.		
	TOTAL MEAS.		0-15M				TOTAL MEAS.		18-33M				
	SAMPLING DEPTH						SAMPLING DEPTH						
CERATOSCOPELUS MANESENSIS	23	23	6.5	5.1-9.6	SL		30	30	7.1	5.2-10.1	SL		16.9
LEPIDIUS AMERICANUS	5	5	5.2	4.7-5.8	TL		4	4	6.0	4.4-8.0	TL		2.8
EACHELYOPUS CIMBRIUS	5	5	3.2	2.5-3.8	SL	134	2	2	3.0	3.0-3.0	SL	12	2.2
UROPHYCIS SP.	1												0.3
UROPHYCIS CHUSS	1035	29	2.7	1.5-4.8	NL		31	29	4.4	2.4-5.8	NL		345.0
MERLUCCIIUS BILINEARIS	144	131	4.0	2.2-6.6	NL	71	424	401	5.8	2.0-5.2	NL	0	184.5
TAUTOGLABRUS ADSPERSUS	5	5	6.4	4.5-9.9	TL		1	1	5.2		TL		1.8
ALXIS SP.	7	7	6.0	4.7-7.7	SL								2.3
SARCA SARCA	6	4	3.7	3.0-5.0	SL	17						0	2.0
SCOMBER SCOMBRUS	1	1	3.3		SL	0						0	0.3
PEPRILUS TRIACANTHUS	176	71	3.0	2.3-6.8	SL		1	1	3.3		SL		58.7
CITHARICHTHYS ARCTIFRONS	486	25	5.2	3.0-6.8	SL		288	25	6.6	5.4-8.8	SL		241.8
HIPPOGLOSSINA OBLONGUS	175	170	4.0	2.4-6.6	SL		15	15	5.0	2.5-8.4	SL		58.3
GLYPTOCEPHALUS CYNOGLOSSUS							25	25	11.0	5.8-18.1	SL		8.3
LIMANDA FERRUGINEA							13	13	8.0	5.4-12.2	SL		4.3
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE						OPHIIDIIDAE						
	OPHIIDIIDAE						STROMATEICAE						
	STROMATEICAE						UNIDENTIFIED						
	UNIDENTIFIED												
A 7 05 08	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
CERATOSCOPELUS MANESENSIS	99	59	6.5	5.4-10.3	SL		64	64	7.0	6.1-8.9	SL		51.0
CERATOSCOPELUS WARMINGI	1	1	6.2		SL								0.3
LEPIDIUS AMERICANUS						0	7	7	5.0	3.9-6.3	TL		2.3
EACHELYOPUS CIMBRIUS												3	0.0
UROPHYCIS SP.	1	1	4.1		NL								0.3
UROPHYCIS CHUSS	232	54	2.3	1.2-4.4	NL		135	25	2.9	1.9-5.7	NL		114.6
MERLUCCIIUS BILINEARIS	7	5	3.6	2.3-4.3	NL	5	40	36	4.2	2.2-10.1	NL	10	15.4
ALXIS SP.	622	117	3.8	2.4-9.5	SL		10	10	3.7	2.9-4.6	SL		207.3
SARCA SARCA	8	8	3.4	3.2-3.9	SL	12						1	2.7
PEPRILUS TRIACANTHUS	16	16	3.3	1.1-14.9	SL		1	1	3.4		SL		5.3
BCTHUS OCELLATUS	1	1	11.0		SL								0.3
CITHARICHTHYS ARCTIFRONS	72	25	3.8	2.2-11.6	SL		136	25	6.9	4.4-9.7	SL		66.9
HIPPOGLOSSINA OBLONGUS	50	45	3.2	2.4-6.0	SL		32	31	4.2	3.1-8.1	SL		25.7
LIMANDA FERRUGINEA							1	1	5.4		SL		0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHOEC SP.						OPHIIDIIDAE						
	OPHIIDIIDAE						LABRIDAE OR SCARIDAE						
	STROMATEICAE						GOBIIDAE						
	UNIDENTIFIED						STROMATEICAE						
	UNIDENTIFIED						UNIDENTIFIED						
B 1 06 08	SAMPLING DEPTH 0-15M												
BREMORITA TYRANNUS	1	1	5.6		TL								0.3
EACHELYOPUS CIMBRIUS	4	4	3.1	1.7-5.3	SL	0							1.2
UROPHYCIS CHUSS	13	10	3.4	3.2-3.7	NL								3.9
MERLUCCIIUS BILINEARIS	2	1	2.6		NL	0							0.6
TAUTOGA ONTIS	41	36	3.8	2.7-4.9	TL								12.4
TAUTOGLABRUS ADSPERSUS	93	52	4.2	2.3-8.5	TL								28.2
PEPRILUS TRIACANTHUS	33	30	3.0	1.7-4.6	SL								10.0
PRIONOTUS CAROLINUS	9	9	3.3	2.1-5.0	SL								2.7
HIPPOGLOSSINA OBLONGUS	3	2	3.6	2.6-4.5	SL								0.9
ADDITIONAL LARVAE CAUGHT	STROMATEICAE						OPHIIDIIDAE						
	UNIDENTIFIED						LABRIDAE OR SCARIDAE						
	UNIDENTIFIED						GOBIIDAE						
	UNIDENTIFIED						STROMATEICAE						
	UNIDENTIFIED						UNIDENTIFIED						
B 2 06 08	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-21M						
LEPIDIUS AMERICANUS							1	1	8.2		TL		0.1
EACHELYOPUS CIMBRIUS						2	6	6	3.6	2.2-4.8	SL	0	0.6
UROPHYCIS CHUSS	40	25	2.2	1.2-4.0	NL		20	12	2.8	1.9-4.3	NL		14.4
MERLUCCIIUS BILINEARIS	7	7	3.8	2.5-4.7	NL	9	29	22	3.6	2.1-7.1	NL	1	5.2
TAUTOGA ONTIS	16	16	3.0	2.2-4.1	TL		4	4	4.3	3.7-5.4	TL		5.3
TAUTOGLABRUS ADSPERSUS	143	130	3.4	2.0-6.8	TL		27	26	4.4	2.2-6.5	TL		68.8
SCOMBER SCOMBRUS	1	1	4.0		SL	0	1	1	5.1		SL	0	0.4
PEPRILUS TRIACANTHUS	30	28	2.9	1.9-4.0	SL		36	36	3.2	2.0-4.3	SL		13.0
PRIONOTUS CAROLINUS	14	14	3.1	1.9-4.2	SL								4.5
CITHARICHTHYS ARCTIFRONS							1						0.1
HIPPOGLOSSINA OBLONGUS	8	6	3.4	2.3-4.2	SL		7	6	3.5	3.2-4.2	SL		3.2
SCOPHYTHALMUS AQUOSUS	3	2	3.0	2.7-3.2	SL		5	5	3.8	3.3-4.3	SL		1.5
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	5.7		SL		0.1
ADDITIONAL LARVAE CAUGHT	STROMATEICAE						OPHIIDIIDAE						
	UNIDENTIFIED						STROMATEICAE						
	UNIDENTIFIED						UNIDENTIFIED						
B 3 06 08	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
EACHELYOPUS CIMBRIUS	1	1	2.0		SL	2						0	0.3
UROPHYCIS CHUSS	1	1	2.5		NL		2	2	2.1	1.8-2.4	NL		1.0
MERLUCCIIUS BILINEARIS	2	2	2.0	1.9-2.2	NL	22	10	10	3.3	2.1-6.5	NL	2	3.9
TAUTOGLABRUS ADSPERSUS	17	14	2.8	2.1-3.7	TL		10	10	4.8	3.2-6.0	TL		8.4
PEPRILUS TRIACANTHUS	1	1	2.0		SL		1	1	2.2		SL		0.6
HIPPOGLOSSINA OBLONGUS	2												0.7
GLYPTOCEPHALUS CYNOGLOSSUS							3	2	6.4	4.2-7.0	SL		1.0
LIMANDA FERRUGINEA							8	8	5.8	5.0-7.1	SL		2.7
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												

TABLE 3. (continued)

102

CRUISE DATE D6610 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 100 LARVAE	2 EGGS
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.		
C 1 C 08	SAMPLING DEPTH 0-6M										
BREVOORTIA TYRANNUS	3	3	0.6	8.1-9.1 TL						0.4	
ENGRAULIS EURYSTOLE	223	29	5.2	2.8-6.5 TL						27.0	
LOPHIUS AMERICANUS	1	1	3.4	TL						0.1	
ENCHELYOPUS CIMBRIUS	2	2	3.7	3.2-4.1 SL	0					0.2	0.0
UROPHYCIS CHUSS	19	16	1.6	1.3-2.0 ML						2.3	
MERLUCCIIUS BILINEARIS	2	2	2.1	1.8-2.4 NL	0					0.2	0.0
PEMATOMUS SAL TATRI X	2	2	6.9	3.0-10.8 SL						0.2	
TAUTOGOLABRUS ADSPERSUS	71	65	3.4	2.1-7.4 TL						8.6	
PEPRILUS TRIACANTHUS	11	10	2.8	1.9-3.2 SL						1.3	
PRICNOTUS CARLINIUS	2	2	4.3	3.9-4.7 SL						0.2	
HIPPOGLOSSINA OBLONGUS	6	6	3.6	2.2-7.8 SL						0.7	
SCOPHTHALMUS AQUOSUS	5	5	3.8	3.1-4.2 SL						0.6	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
SYNGNATHIDAE											
SPARIDAE											
UNIDENTIFIED											
.....											
C 2 C 08	SAMPLING DEPTH 0-15M										
BREVOORTIA TYRANNUS	1	1	7.7	TL						0.3	
ENGRAULIS EURYSTOLE	413	22	5.3	2.8-7.0 TL						125.1	
LOPHIUS AMERICANUS	1	1	3.0	TL						0.3	
ENCHELYOPUS CIMBRIUS	44	42	2.6	1.5-4.6 SL	0					13.3	0.0
MERLUCCIIUS BILINEARIS					1					0.0	0.3
MENICIRRHUS SP.	1	1	3.0	SL						0.3	
TAUTOGOLABRUS ADSPERSUS	45	45	4.1	2.3-8.9 TL						13.6	
PEPRILUS TRIACANTHUS	12	12	2.7	1.4-3.5 SL						3.6	
SCOPHTHALMUS AQUOSUS	9	8	4.7	2.7-7.2 SL						2.7	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
C 3 C 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS	2	2	9.8	9.3-10.3 TL						0.6	
ENGRAULIS EURYSTOLE	18	15	6.2	5.1-7.2 TL						5.8	
ENCHELYOPUS CIMBRIUS	10	9	4.3	2.5-7.7 SL	0	5	5	3.3	2.2-4.3 SL	0	3.9
LOPHIUS AMERICANUS	1	1	3.0	TL						0.3	0.0
UROPHYCIS CHUSS	2	2	1.4	1.4-1.5 NL						0.6	
MERLUCCIIUS BILINEARIS	9	9	3.2	2.6-5.5 NL	0					2.9	0.0
PEMATOMUS SAL TATRI X	14	14	3.9	3.4-5.1 SL						4.5	
TAUTOGOLABRUS ADSPERSUS	21	21	4.3	3.1-8.3 TL						6.8	
PEPRILUS TRIACANTHUS	6	6	3.8	2.3-7.0 SL						1.9	
ETREPIUS MICROSTOMUS	2	2	9.7	7.7-11.7 SL						0.6	
HIPPOGLOSSINA OBLONGUS	9	9	5.8	2.4-5.2 SL		2	2	5.9	4.2-7.5 SL		3.1
SCOPHTHALMUS AQUOSUS	3	3	21.5	2.4-35.0 SL						1.0	
LIMANDA FERRUGINEA	3	3	9.8	7.2-12.0 SL		4	4	8.2	3.9-12.0 SL		1.6
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
C 4 C 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	11	6	4.3	3.0-6.3 TL						3.7	
ENCHELYOPUS CIMBRIUS	5	5	4.2	2.6-5.9 SL	0					1.7	0.0
MERLUCCIIUS BILINEARIS	41	39	3.7	1.7-6.3 ML	4	1	1	4.7	NL	0	13.7
LOPHIUS AMERICANUS	4	4	2.4	2.4-2.5 SL						1.3	
PEMATOMUS SAL TATRI X	32	30	3.5	2.3-10.2 TL		1	1	5.0	TL		10.7
TAUTOGOLABRUS ADSPERSUS					2					0.0	0.7
SARCA SARDA	12	11	3.6	1.7-7.9 SL						4.0	
PEPRILUS TRIACANTHUS	5	5	3.2	1.7-8.0 SL						1.7	
CITHARICHTHYS ARCTIFRONS	1	1	4.7	SL						0.3	
ETREPIUS MICROSTOMUS	19	16	3.2	2.1-6.7 SL						6.3	
HIPPOGLOSSINA OBLONGUS						2	2	13.4	13.1-13.7 SL		0.7
LIMANDA FERRUGINEA											
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
C 5 C 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
UROPHYCIS CHUSS	1	1	1.2	NL						0.3	
MERLUCCIIUS BILINEARIS					2	3	3	3.5	2.8-4.8 NL	0	1.0
TAUTOGOLABRUS ADSPERSUS	7	6	3.7	2.9-4.5 TL		3	3	4.6	4.3-5.0 TL		3.1
PEPRILUS TRIACANTHUS	1	1	4.3	SL						0.3	
PRICNOTUS CARLINIUS	2	2	3.4	3.2-3.6 SL						0.7	
HIPPOGLOSSINA OBLONGUS	1	1	3.0	SL		2	2	9.0	8.3-9.7 SL		1.0
LIMANDA FERRUGINEA						1	1	7.5	SL		0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
UNIDENTIFIED											
.....											
C 6 C 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE						1	1	7.0	TL		0.3
ENCHELYOPUS CIMBRIUS					0	2	2	3.7	3.4-3.9 SL	0	0.7
UROPHYCIS CHUSS	14	12	3.6	1.5-16.1 NL						4.7	0.0
MERLUCCIIUS BILINEARIS	1	1	3.2	NL	19					0.3	6.3
PEMATOMUS SAL TATRI X	1	1	3.0	SL						0.3	
TAUTOGOLABRUS ADSPERSUS	7	7	3.5	3.1-4.0 TL		1	1	7.2	TL		2.4
SARCA SARCA	1	1	3.6	SL	5					0.3	1.7
PEPRILUS TRIACANTHUS	4	4	2.0	1.5-2.8 SL						1.3	
CITHARICHTHYS ARCTIFRONS	1	1	2.5	SL						0.3	
HIPPOGLOSSINA OBLONGUS	7	5	3.2	2.8-3.4 SL						2.3	
LIMANDA FERRUGINEA						1	1	7.3	SL		0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											

CRUISE DATE D6610 1966 STA. D H SPECIES ANALYZED C 7 C7 08	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M ² LARVAE	EGGS			
	NUMBER	LENGTHS (MM)					NUMBER	LENGTHS (MM)								
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.							
	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M									
LCPHIUS AMERICANUS	1	1	3.9		TL		1	1	3.5		TL	0.6				
ENCHELYOPTIS CIMBRIUS						1	15	15	3.2	2.0-	4.2	SL	0	5.0	0.3	
UROPHYCIS CHUSS	39	13	4.6	1.5-	7.0	NL	102	14	3.9	2.6-	5.6	NL	0	45.7		
MERLUCCIIUS BILINEARIS						0	7	6	5.3	4.5-	6.0	NL	0	2.3	0.0	
PCMATOMUS SALTATRIX	4	3	4.7	3.1-	7.5	SL	3	3	3.0	2.9-	3.1	SL		2.2		
TAUTOGLABRUS ADSPERSUS	2	2	6.2	6.1-	6.4	TL								0.7		
AUXIS SP.	1	1	9.2			SL								0.6		
SARCA SARCA	9	9	6.0	4.7-	8.1	SL	1	17	17	5.6	4.3-	8.8	SL	0	8.4	0.3
PEPRILUS TRIACANTHUS	80	80	4.2	2.5-	9.5	SL	24	24	4.7	2.6-	6.6	SL		22.0		
CITHARICHTHYS ARCTIFRONS	41	25	5.5	3.7-	8.7	SL	14	14	6.3	5.0-	7.6	SL		17.0		
HIPPOGLOSSINA OBLONGUS	7	7	4.7	2.5-	7.5	SL	13	12	3.9	3.0-	5.8	SL		6.4		
GLYPTOCEPHALUS CYNOGLOSSUS							6	5	10.2	8.3-	12.7	SL		2.0		
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE						OPHICHTHIDAE									
	CYCLOTHERE S.P.						OPHIDIIDAE									
	OPHIDIIDAE						STROMATEIDAE									
.....																
C 8 C7 08	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M									
LCPHIUS AMERICANUS	1	1	5.0		TL		12	12	6.4	3.4-	11.9	TL		4.3		
ENCHELYOPTIS CIMBRIUS						0	27	26	3.3	2.1-	4.4	SL	0	9.0	0.0	
UROPHYCIS CHUSS	25	25	4.5	1.2-	7.5	NL	56	11	4.5	2.2-	9.3	NL	0	26.2		
MERLUCCIIUS BILINEARIS	1	1	4.9			NL	0	67	73	5.4	3.3-	7.3	NL	0	29.3	0.0
PCMATOMUS SALTATRIX	4	4	3.6	3.4-	3.8	SL								1.3		
SARCA SARCA	2	2	6.0	4.1-	7.9	SL	0	1	1	10.8		SL	0	0.9	0.0	
PEPRILUS TRIACANTHUS	43	43	5.1	3.1-	8.5	SL	11	11	4.4	3.2-	5.7	SL		16.6		
CITHARICHTHYS ARCTIFRONS	143	25	6.1	5.0-	8.2	SL	22	22	6.8	5.1-	11.2	SL		50.2		
HIPPOGLOSSINA OBLONGUS	5	5	4.8	3.8-	5.8	SL	3	3	5.5	3.6-	5.0	SL		2.5		
GLYPTOCEPHALUS CYNOGLOSSUS							4	4	12.9	5.3-	25.9	SL		1.3		
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE						OPHIDIIDAE									
	OPHIDIIDAE						STROMATEIDAE									
.....																
D 1 08 08	SAMPLING DEPTH 0-6M															
ENGRAULIS EURYSTOLE	15	9	3.7	1.9-	7.0	TL							1.8			
TAUTOGLABRUS ADSPERSUS	4	2	6.7	6.0-	7.4	TL							0.5			
.....																
D 2 08 08	SAMPLING DEPTH 0-6M															
ENGRAULIS EURYSTOLE	15	15	5.1	3.7-	7.0	TL							1.8			
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED															
.....																
D 3 08 08	SAMPLING DEPTH 0-15M															
PCMATOMUS SALTATRIX	1	1	2.9			SL							0.3			
PEPRILUS TRIACANTHUS	5	5	1.8	1.4-	2.2	SL							1.5			
ETRCPUS MICROSTOMUS	1	1	2.5			SL							0.3			
HIPPOGLOSSINA OBLONGUS	5	5	3.1	2.2-	4.3	SL							1.5			
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED															
.....																
D 4 08 08	SAMPLING DEPTH 0-6M															
ENGRAULIS EURYSTOLE	2	2	6.8	5.5-	8.1	TL							0.2			
UROPHYCIS CHUSS	1	1	3.5			NL							0.1			
PCMATOMUS SALTATRIX	36	26	3.9	2.4-	6.2	SL							4.4			
SARCA SARCA							3						0.0	0.4		
PEPRILUS TRIACANTHUS	5	5	4.6	1.7-	11.0	SL							0.6			
CITHARICHTHYS ARCTIFRONS	1	1	2.5			SL							0.1			
HIPPOGLOSSINA OBLONGUS	8	3	4.7	2.8-	6.1	SL							1.0			
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED															
.....																
D 5 08 08	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M									
BREVOORTIA TYRANNUS	1	1	10.6			TL							0.3			
ANCHOA hepsetus	12	12	7.7	4.8-	11.2	TL							3.9			
LCPHIUS AMERICANUS	1	1	4.0			TL							0.3			
ENCHELYOPTIS CIMBRIUS							0	3	3	4.2	3.7-	4.8	SL	0	0.5	C.C
UROPHYCIS CHUSS	77	23	3.1	1.3-	4.8	NL		5	5	4.6	3.5-	6.6	NL		24.9	
MERLUCCIIUS BILINEARIS	4	4	3.7	2.4-	7.1	NL		1	1	3.2			NL	0	1.4	1.9
PCMATOMUS SALTATRIX	549	546	3.5	2.5-	5.1	SL		22	22	3.4	2.8-	4.5	SL		177.4	
TAUTOGLABRUS ADSPERSUS	7	6	6.7	5.1-	8.5	TL		9	9	6.7	7.7-	10.0	TL		3.6	
AUXIS SP.	206	184	3.1	2.0-	4.7	SL		2	2	2.9	2.8-	3.1	SL		66.6	
SARCA SARCA	48	44	3.4	2.8-	4.4	SL	159	5	3	4.0	3.5-	4.9	SL	2	15.5	51.4
PEPRILUS TRIACANTHUS	137	50	3.2	1.5-	7.5	SL		14	14	6.0	2.0-	9.0	SL		44.3	
PFICNOTUS CAROLINUS	1	1	4.7			SL								0.3		
PFICNOTUS EVOLANS	6	6	5.1	4.6-	5.4	SL								1.9		
CITHARICHTHYS ARCTIFRONS	76	25	2.7	1.9-	7.6	SL		4	4	7.1	6.0-	7.7	SL		24.6	
ETRCPUS MICROSTOMUS	19	19	3.4	2.1-	5.6	SL								6.1		
HIPPOGLOSSINA OBLONGUS	331	50	3.8	2.4-	5.2	SL		138	50	5.1	3.2-	6.7	SL		123.9	
GLYPTOCEPHALUS CYNOGLOSSUS								1	1	28.2			SL		0.2	
LIMANDA FERRUGINEA								20	19	6.7	6.1-	13.9	SL		3.2	
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE						STROMATEIDAE									
	UNIDENTIFIED						UNIDENTIFIED									

TABLE 3. (continued)

104

CRUISE DATE 06610 1966 STA. D M SPECIES ANALYZED D 6 08 08	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M					
ENGRAULIS EURYSTOLE	7	7	6.7	5.8- 7.7 TL						2.3	
LEPILUS AMERICANUS	3	3	5.4	4.8- 6.3 TL						1.0	
UROPHYCIS CHUSS	26	10	3.6	2.0- 5.1 NL		7	7	2.9	1.5- 3.7 NL		10.1
MERLUCCIIUS BILINEARIS	7	6	5.8	4.5- 6.5 NL	0					2.3	0.0
POMATOMUS SALTATRIX	77	77	3.3	2.2- 5.6 SL		2	2	4.3	4.3- 4.4 SL		25.7
TAUTOGOLABRUS ADSPERSUS	30	30	4.9	3.3- 9.0 TL		1	1	3.4			10.0
AUXIS SP.	1	1	5.8								0.3
SARCA SARDA	12	12	4.7	3.1- 6.4 SL	7						4.0
PEPILUS TRIACANTHUS	5	5	3.8	2.5- 6.2 SL							1.7
PRIONOTUS CAROLINUS	2	2	5.3	4.9- 5.7 SL							0.7
PRIONOTUS EVOLANS	1	1	6.7			1	1	6.3			0.6
CITHARICHTHYS ARCTIFRONS	5	5	5.9	2.6-10.1 SL		1	1	5.2			1.8
HIPPUGLOSINA OBLONGUS	10	10	5.1	3.2- 6.5 SL		3	2	5.5	4.5- 6.4 SL		4.0
GLYPTOCEPHALUS CYNOCLOSSUS						3	3	17.6	16.4-19.7 SL		1.0
LIMANDA FERRUGINEA						11	11	10.5	8.6-12.4 SL		3.7
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED					
.....											
D 7 07 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LEPILUS AMERICANUS	5	5	6.2	4.4- 8.9 TL							1.7
ENGRYLOPUS CUMBIUS	1	1	2.9		0						0.3
UROPHYCIS CHUSS	74	21	3.4	1.8- 4.4 NL		7	5	3.3	2.2- 4.6 NL		24.7
MERLUCCIIUS BILINEARIS	21	20	6.0	4.5-13.5 NL	0	6	6	12.2	6.4-17.6 NL	0	8.3
POMATOMUS SALTATRIX	114	51	4.1	2.8- 5.8 SL		4	4	3.7	3.3- 4.6 SL		38.0
TAUTOGOLABRUS ADSPERSUS	26	26	4.9	3.4- 9.0 TL							8.7
SARCA SARDA	4	4	6.6	3.8-10.2 SL	0	1	1	4.1			1.5
PEPILUS TRIACANTHUS	15	15	4.3	1.7- 7.0 SL							5.0
CITHARICHTHYS ARCTIFRONS	21	19	4.5	3.3- 6.7 SL		4	4	5.5	5.2- 5.8 SL		7.6
ETROPUS MICROSTOMUS	1	1	3.2			1					0.6
HIPPUGLOSINA OBLONGUS	6	6	4.9	3.1- 6.2 SL		1	1	3.7			2.1
GLYPTOCEPHALUS CYNOCLOSSUS						1	1	12.7			0.3
LIMANDA FERRUGINEA	5	5	12.5	10.1-14.7 SL		30	30	11.0	7.2-16.7 SL		11.5
ADDITIONAL LARVAE CAUGHT				STROMATEICAE							
				UNIDENTIFIED							
.....											
D 8 07 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M					
PISCODONPHYS CRUENTIFER	1	1	27.2								0.3
MYCOPHIDAE						1	1	5.5			0.3
CERATOSCOPELUS MADERENSIS	2	2	15.5	14.9-16.1 SL							0.7
LEPILUS AMERICANUS	1	1	13.5			4	4	6.7	5.6- 8.4 TL		1.6
ENGRYLOPUS CUMBIUS					0	1	1	4.3			0.3
UROPHYCIS CHUSS	106	16	3.8	1.6- 6.1 NL		7	5	4.3	3.7- 4.9 NL		25.3
MERLUCCIIUS BILINEARIS	1	1	3.6		0	64	61	10.2	6.0-19.5 NL	0	21.6
TAUTOGOLABRUS ADSPERSUS	1	1	11.1								0.3
AUXIS SP.	51	45	4.6	2.6- 8.4 SL		2	2	6.2	6.1- 6.3 SL		17.0
SARCA SARDA	14	14	6.9	3.5- 8.8 SL	0						4.7
PEPILUS TRIACANTHUS	27	26	4.7	1.7- 9.0 SL		11	11	6.9	5.5- 9.3 SL		11.8
CITHARICHTHYS ARCTIFRONS	115	25	5.2	2.7- 9.3 SL		313	25	6.2	4.7- 8.7 SL		138.8
MICROLENE SESSILICAUDA	1	1	11.8								0.3
HIPPUGLOSINA OBLONGUS	40	38	5.2	2.5- 7.7 SL		9	8	5.8	4.7- 7.0 SL		15.0
SCOPHTHALMUS AQUOSUS	3	3	2.7	2.6- 2.7 SL							1.0
GLYPTOCEPHALUS CYNOCLOSSUS						21	21	16.2	11.3-31.5 SL		7.0
LIMANDA FERRUGINEA						17	17	10.6	7.3-13.8 SL		5.7
ADDITIONAL LARVAE CAUGHT				OPHICHTHIDAE		OPHIDIIDAE					
				PISCODONPHYS CRUENTIFER		CARAPIDAE					
				OPHIDIIDAE		BLENNIIDAE					
				UNIDENTIFIED							
.....											
E 1 08 08	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 0- 6M					
ANCHOA MITCHELLI	2	1	6.5								0.2
ADDITIONAL LARVAE CAUGHT				SYGNATHIDAE							
.....											
E 2 08 08	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 0- 6M					
.....											
E 3 08 09	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 0- 6M					
ENGRAULIS EURYSTOLE	2	2	9.1	8.8- 9.5 TL							0.2
POMATOMUS SALTATRIX	1	1	3.1								0.1
PEPILUS TRIACANTHUS	1	1	4.7								0.1
.....											
E 4 09 08	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 0- 6M					
ENGRAULIS EURYSTOLE	12	11	7.0	5.6- 8.4 TL							1.5
PEPILUS TRIACANTHUS	29	29	3.4	1.0- 6.6 SL							3.5

CRUISE DATE C6610 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
E 5 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 12-24M					
ENGRAULIS EURYSTOLE	2	2	6.1	5.6-6.6	YL	8	8	5.8	3.7-7.0	TL	1.9
PCMATOMUS SALTATRIX	95	95	4.2	2.9-6.7	SL	11	11	4.0	3.6-4.8	SL	31.0
AUXIS SP.	2	2	3.6	3.0-4.3	SL						0.6
PEPRILUS TRIACANTHUS	5	5	4.7	3.3-7.0	SL	28	28	4.7	2.6-8.0	SL	6.1
PRICNOTUS EVOLANS	1	1	5.5		SL						0.3
CITHARICHTHYS ARCTIFRONS	1	1	5.2		SL	15	15	6.8	3.3-9.1	SL	2.7
ETROPLUS MICROSTOMUS						10	10	7.1	4.6-10.3	SL	1.6
HIPPFOGLOSSINA OBLONGUS						21	20	5.2	4.2-6.7	SL	3.4
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED						STROMATEIDAE					
E 6 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE						3	2	7.7	4.7-10.7	TL	1.0
LEPPIUS AMERICANUS	2	2	4.8	4.3-5.3	TL	1	1	5.7		TL	0.9
UROPHYCIS CHUSS	17	17	4.3	2.3-9.0	NL	21	9	4.6	2.9-6.7	NL	12.1
MERLUCCIIUS BILINEARIS	1	1	5.3		NL	3	3	6.0	5.8-6.2	NL	1.3
PCMATOMUS SALTATRIX	59	59	4.3	2.9-7.2	SL	12	12	5.5	4.0-8.7	SL	21.7
TAUTOGLABRUS ADSPERSUS	3	3	5.7	5.4-6.0	TL	4	4	7.1	6.0-8.2	TL	2.2
AUXIS SP.	20	20	4.4	3.4-5.2	SL						6.7
SARCA SARDA	1	1	7.0		SL						0.3
PEPRILUS TRIACANTHUS	8	8	5.4	2.7-7.0	SL	5	5	7.3	6.8-8.0	SL	4.1
CITHARICHTHYS ARCTIFRONS	38	37	5.1	3.2-7.7	SL	163	25	4.5	3.2-7.9	SL	65.7
ETROPLUS MICROSTOMUS	1					2	2	5.4	4.4-5.4	SL	1.0
HIPPFOGLOSSINA OBLONGUS	13	12	4.3	2.8-6.1	SL	30	27	5.0	3.5-8.5	SL	13.9
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	15.4		SL	0.3
LIMANDA FERRUGINEA						5	5	8.1	6.5-10.0	SL	1.7
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED						OPHIDIIDAE					
E 7 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
UROPHYCIS CHUSS	13	10	3.9	2.9-8.0	NL	4	4	3.5	2.7-5.3	NL	5.2
MERLUCCIIUS BILINEARIS	2	2	3.3	2.9-3.7	NL	5	5	5.5	4.2-7.2	NL	2.3
PCMATOMUS SALTATRIX	209	209	3.8	2.7-5.4	SL	21	21	3.9	2.9-5.5	SL	69.7
AUXIS SP.	10	9	3.5	2.7-4.5	SL	3	3	4.0	3.8-4.3	SL	4.0
SARCA SARDA	1	1	3.3		SL	1	1	3.9		SL	0.6
PEPRILUS TRIACANTHUS	10	10	5.2	3.5-6.5	SL	6	6	6.1	5.6-7.2	SL	5.0
CITHARICHTHYS ARCTIFRONS	23	21	3.8	2.4-5.5	SL	33	32	5.0	2.2-9.8	SL	17.9
HIPPFOGLOSSINA OBLONGUS	20	20	3.4	2.6-4.5	SL	25	23	5.0	2.9-6.7	SL	14.3
GLYPTOCEPHALUS CYNOGLOSSUS						3	3	17.7	14.7-20.4	SL	1.0
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED						OPHIDIIDAE					
E 8 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LEPPIUS AMERICANUS						1	1	14.3		TL	0.3
UROPHYCIS CHUSS	23	19	2.2	1.2-4.0	NL	4	3	5.3	3.0-6.7	NL	8.2
AUXIS SP.	81	79	5.6	2.8-10.5	SL	2	2	5.3	4.1-6.5	SL	7.0
SARCA SARCA	2	2	7.6	7.1-8.1	SL	1	1	10.2		SL	0.9
PEPRILUS TRIACANTHUS	3	3	4.0	3.0-5.9	SL	8	8	12.8	7.4-24.7	SL	3.6
CITHARICHTHYS ARCTIFRONS	49	25	3.3	2.0-5.4	SL	5	5	4.8	3.9-6.6	SL	16.4
HIPPFOGLOSSINA OBLONGUS	37	34	3.0	1.8-4.4	SL	6	6	4.2	3.0-7.6	SL	13.1
ADDITIONAL LARVAE CAUGHT OPHICHTHICAE OPHIDIIDAE						OPHICHTHICAE MYCTOPHIDAE UNIDENTIFIED					
F 1 10 08	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M					
ANCHOA MITCHILLI						29	29	3.8	2.0-13.3	TL	3.5
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE											
F 2 10 08	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M					
ANCHOA MITCHILLI	11	11	4.3	2.5-11.1	TL						1.3
PEPRILUS TRIACANTHUS	1	1	2.2		SL						0.1
HIPPFOGLOSSINA OBLONGUS	1	1	1.9		SL						0.1
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE											
F 3 10 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PEPRILUS TRIACANTHUS	1	1	16.8		SL						0.3
HIPPFOGLOSSINA OBLONGUS	1	1	6.2		SL						0.3
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE											
F 4 10 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	4	2	7.0	3.5-10.5	TL						1.2
TAUTOGLABRUS ADSPERSUS	1	1	2.7		TL						0.3
PEPRILUS TRIACANTHUS	9	9	10.0	1.8-16.4	SL						2.7
PRICNOTUS CAROLINUS	3	3	2.3	2.0-2.8	SL						0.9
HIPPFOGLOSSINA OBLONGUS	2	2	4.1	2.3-5.8	SL						0.6

TABLE 3. (continued)

106

CRUISE DATE D6610 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE		
F 5 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
ENGRAULIS EURYSTOLE	14	12	7.8	4.0-10.3 TL		4	3	6.0	5.1-6.8 TL		4.9
UROPHYCIS CHUSS	4	3	5.7	3.7-7.3 NL		3	2	7.6	6.8-8.5 NL		1.7
CENTROPRESTIS STRIATA	3	3	3.6	2.8-4.5 SL		1	1	3.7	SL		1.1
PCMATOMUS SALTATRIX	37	37	4.3	2.4-5.5 SL		1	1	3.1	SL		12.0
AUXIS SP.	2	2	4.1	2.8-5.5 SL							0.6
SARCA SARCA	2	2	4.8	4.7-5.0 SL	0					0	0.6
PEPRILUS TRIACANTHUS	22	22	3.8	2.0-7.0 SL		5	5	3.7	2.5-7.1 SL		7.6
PRIONOTUS CAROLINUS	3	3	3.7	2.6-5.4 SL		2	2	2.8	2.8-2.9 SL		1.3
CITHARICHTHYS ARCTIFRONS	2	2	3.9	2.7-5.0 SL		5	5	3.2	3.1-7.8 SL		1.4
ETRCPIUS MICROSTOMUS	1	1	4.5	SL							0.3
HIPPOGLOSSINA OBLONGUS	8	8	5.1	2.9-8.4 SL		1	1	6.7	SL		2.6
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	14.2	SL		0.2
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE										
	UNIDENTIFIED										
.....											
F 6 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	112	29	6.4	2.4-10.5 TL		11	11	9.3	7.7-12.8 TL		37.3
UROPHYCIS CHUSS	21	17	3.8	2.6-7.0 NL		2	2	4.1	3.1-5.2 NL		7.0
MERLUCCIIUS BILINEARIS	1	1	6.0	NL	0	2	2	7.0	6.9-7.2 NL	0	1.0
PCMATOMUS SALTATRIX	240	223	4.9	3.6-8.1 SL		16	16	4.7	3.0-8.0 SL		80.0
TAUTOGOLABRUS ADSPERSUS	7	7	5.4	4.2-7.2 TL		1	1	6.4	TL		2.4
AUXIS SP.	28	28	4.9	3.7-6.4 SL		3	3	4.8	3.9-5.4 SL		9.4
PEPRILUS TRIACANTHUS	225	53	3.6	1.9-7.1 SL		5	3	3.5	2.9-4.0 SL		75.0
CITHARICHTHYS ARCTIFRONS	28	27	4.6	2.4-11.1 SL		6	6	4.8	3.1-6.4 SL		10.4
ETRCPIUS MICROSTOMUS	1	1	8.7	SL							0.3
HIPPOGLOSSINA OBLONGUS	14	13	4.0	3.4-5.2 SL		1	1	5.5	SL		4.7
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	17.9	SL		0.3
LIMANDA FERRUGINEA						1	1	13.3	SL		0.3
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										
.....											
F 7 09 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS ORIENTIFER	1	1	26.3	TL							0.3
LCPHIUS AMERICANUS	1	1	12.1	TL							0.3
UROPHYCIS CHUSS	18	17	4.8	1.6-14.1 NL		2	2	7.3	6.6-8.1 NL		6.1
MERLUCCIIUS BILINEARIS	7	7	7.5	5.5-10.1 NL	0					0	2.3
PCMATOMUS SALTATRIX	11	11	6.1	4.0-9.3 SL		1	1	4.4	SL		3.7
TAUTOGOLABRUS ADSPERSUS	5	4	8.3	6.2-10.0 TL							1.7
AUXIS SP.	105	57	3.9	2.5-8.5 SL		3	3	3.5	3.3-4.5 SL		35.0
SARCA SARCA	2	2	8.8	8.7-9.0 SL	0					0	0.7
PEPRILUS TRIACANTHUS	72	70	2.9	1.8-4.5 SL		3	3	3.6	3.2-4.3 SL		24.0
CITHARICHTHYS ARCTIFRONS	271	25	4.8	2.9-9.6 SL		4	4	5.1	3.2-7.2 SL		50.3
HIPPOGLOSSINA OBLONGUS	26	26	4.4	2.2-7.7 SL		2	2	3.2	2.8-3.5 SL		8.7
GLYPTOCEPHALUS CYNOGLOSSUS						4	4	20.2	9.2-26.1 SL		1.3
LIMANDA FERRUGINEA	5	4	13.2	10.8-14.4 SL		6	6	10.5	9.0-12.7 SL		3.5
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					OPHICHTHIDAE					
	OPHIDIIDAE					OPHIDIIDAE					
	STROMATEIDAE					UNIDENTIFIED					
.....											
G 1 21 08	SAMPLING DEPTH 0-6M										
.....											
G 2 21 08	SAMPLING DEPTH 0-6M										
ENGRAULIS EURYSTOLE	9	6	2.8	2.1-4.2 TL							1.1
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....											
G 3 21 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
PEPRILUS TRIACANTHUS						1	1	16.2	SL		0.2
.....											
G 4 21 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
ENGRAULIS EURYSTOLE	88	72	6.2	2.0-16.9 TL							28.4
LCPHIUS AMERICANUS	1	1	5.3	TL							0.3
UROPHYCIS CHUSS	14	11	4.7	3.6-7.1 NL		1	1	4.5	NL		4.5
CENTROPRESTIS STRIATA	17	17	3.6	2.3-5.1 SL							5.5
AUXIS SP.	1	1	9.5	SL							0.3
PEPRILUS TRIACANTHUS	53	51	3.8	2.1-8.5 SL		1	1	3.0	SL		17.1
PRIONOTUS CAROLINUS	180	33	4.1	2.9-5.5 SL		5	5	4.9	3.3-5.9 SL		58.2
CITHARICHTHYS ARCTIFRONS	18	16	7.9	6.2-10.0 SL		107	25	8.6	6.3-11.5 SL		22.8
ETRCPIUS MICROSTOMUS	28	25	6.4	2.8-11.6 SL		1	1	10.3	SL		9.0
HIPPOGLOSSINA OBLONGUS	8	8	5.4	3.1-6.7 SL		7	7	7.0	4.8-8.5 SL		3.6
LIMANDA FERRUGINEA	1	1	9.1	SL							0.3
SYMPHURUS SP.	3	3	7.0	6.0-9.0 SL							1.0
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					OPHIDIIDAE					
	URANOSCPIIDAE										

TABLE 3. (continued)

107

CRUISE DATE STA. D.M. SPECIES ANALYZED G 5 21 08	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M					
ENGRAULIS EURYSTOLE	140	48	5.5	2.6-8.5 TL						46.7	
UROPHYCIS CHUSS	1	1	5.8	NL	0	1	1	14.1	NL	0.6	
MERLUCCIDUS BILINEARIS	1	1	3.6	NL						0.3	
CENTROPRISTIS STRIATA	7	7	4.0	3.1-5.5 SL						2.3	
CYNOGLOSSUS SP.	2	2	3.5	3.5-3.5 SL						0.7	
MENTICARRHUS SP.	5	5	3.7	3.5-4.1 SL						1.7	
PEPRILUS TRIACANTHUS	68	65	4.9	1.5-19.2 SL		2	2	4.7	3.0-6.5 SL	22.7	
PRIONOTUS CAROLINUS	188	24	4.3	2.7-5.7 SL						62.7	
PRIONOTUS EVOLANS	4	4	5.5	4.8-6.3 SL						1.3	
CITHARICHTHYS ARCTIFRONS	86	25	6.7	4.3-8.7 SL		85	25	8.6	5.3-14.7 SL	54.1	
ETRECPUS MICROSTOMUS	39	29	5.7	2.3-9.2 SL		1	1	6.1	SL	13.0	
HIPPOGLOSSINA OBLONGUS						1	1	5.6	SL	0.3	
GLYPTOCEPHALUS CYNOGLOSSUS						2	2	27.4	25.4-29.4 SL	0.7	
LIMANDA FERRUGINEA						2	2	13.1	12.1-14.1 SL	0.7	
SYMPHURUS SP.	2	2	5.8	5.5-6.0 SL						0.7	
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE					OPHIIDIIDAE					
G 6 21 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M					
ENGRAULIS EURYSTOLE	4	4	12.9	5.6-20.1 TL		5	5	20.1	19.5-21.2 TL	2.9	
LEPORHYS AMERICANUS						1	1	6.4	TL	0.3	
UROPHYCIS CHUSS	64	19	4.4	1.7-10.8 NL		28	10	3.5	2.5-4.1 NL	28.5	
AUXIS SP.	3	3	9.9	5.6-12.2 SL						1.0	
PEPRILUS TRIACANTHUS	16	13	5.2	2.6-7.2 SL		6	6	5.3	3.5-8.3 SL	6.8	
PRIONOTUS CAROLINUS	2	2	5.3	3.8-6.8 SL						0.7	
CITHARICHTHYS ARCTIFRONS	70	25	5.6	3.6-9.7 SL		21	19	9.1	4.0-14.2 SL	28.0	
ETRECPUS MICROSTOMUS	1	1	5.6	SL						0.3	
HIPPOGLOSSINA OBLONGUS	17	17	5.5	3.1-8.8 SL		5	5	6.6	5.0-7.9 SL	6.8	
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					OPHIIDIIDAE					
	OPHIIDIIDAE										
H 1 22 08	SAMPLING DEPTH 0-3M										
ENGRAULIS EURYSTOLE	7	2	6.6	6.6-6.7 TL						0.4	
ETRECPUS MICROSTOMUS	4	2	6.2	5.0-7.3 SL						0.2	
SYMPHURUS SP.	1	1	4.4	SL						0.1	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
H 2 22 08	SAMPLING DEPTH 0-15M										
ENGRAULIS EURYSTOLE	3	3	9.0	5.8-13.1 TL						0.9	
PRIONOTUS CAROLINUS	15	15	2.6	1.5-4.2 SL						4.5	
SCOPHTHALMUS AQUOSUS	1	1	2.1	SL						0.3	
SYMPHURUS SP.	2	2	2.9	2.9-2.9 SL						0.6	
ADDITIONAL LARVAE CAUGHT	CALLIONYMIIDAE										
	STROMATEIDAE										
	UNIDENTIFIED										
H 3 22 08	SAMPLING DEPTH 0-6M										
ENGRAULIS EURYSTOLE	28	22	4.6	3.0-7.4 TL						3.4	
PEPRILUS TRIACANTHUS	3	3	6.0	3.9-10.0 SL						0.4	
PRIONOTUS CAROLINUS	5	5	3.1	2.5-3.9 SL						0.6	
ETRECPUS MICROSTOMUS	7	7	7.3	2.6-10.3 SL						0.8	
SYMPHURUS SP.	4	4	3.0	2.9-3.1 SL						0.5	
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE										
H 4 22 08	SAMPLING DEPTH 0-15M										
ENGRAULIS EURYSTOLE	134	68	6.8	4.0-16.0 TL						40.6	
CENTROPRISTIS STRIATA	24	24	5.9	3.2-10.6 SL						7.3	
PCMATOMUS SALTATRIX	7	7	5.2	3.3-6.9 SL						2.1	
AUXIS SP.	21	19	5.6	4.1-9.9 SL						6.4	
PEPRILUS TRIACANTHUS	110	49	4.6	2.5-25.0 SL						33.3	
PRIONOTUS CAROLINUS	69	33	4.8	2.9-8.7 SL						20.9	
PRIONOTUS EVOLANS	2	2	5.5	5.1-5.9 SL						0.6	
CITHARICHTHYS ARCTIFRONS	93	25	5.3	3.1-8.1 SL						28.2	
ETRECPUS MICROSTOMUS	399	25	5.8	3.3-9.2 SL						120.9	
HIPPOGLOSSINA OBLONGUS	4	4	4.9	3.8-6.7 SL						1.2	
SCOPHTHALMUS AQUOSUS	1	1	3.3	SL						0.3	
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE										
	SYNGNATHIDAE										
	URANOSCOPIDAE										
	BLENNIIDAE										
	STROMATEIDAE										
	UNIDENTIFIED										

TABLE 3. (continued)

108

CRUISE DATE D661C 1966 STA. D M SPECIES ANALYZED H 5 22 08	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUM REEP	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
PISCODONOPHIS CRUENTIFER	3	3	44.6	28.8-61.0 TL							1.0
ENGRAULIS EURYSTOLE	200	79	7.0	3.8-19.0 TL		6	6	8.2	5.3-12.5 TL		44.6
LOPHIUS AMERICANUS	1	1	6.3	TL		1	1	10.8	TL		0.5
UROPHYCIS CHUSS	33	7	3.7	2.9- 5.7 NL							10.7
MERLUCCIIUS BILINEARIS	1	1	14.8	NL	0	1	1	14.5	NL	0	0.5
CENTROPSETIS STRIATA	28	28	4.9	3.2- 7.3 SL		3	3	5.3	4.8- 6.1 SL		9.1
PEMATOMUS SALTATRIX	17	17	10.3	7.7-13.2 SL							5.5
MENTICIRRHUS SP.	1	1	3.0	SL							0.3
TAUTOGLABRUS ADSPERSUS						1	1	12.6	TL		0.2
AUXIS SP.	12	12	7.7	3.4- 9.1 SL							3.9
PEPRILUS TRIACANTHUS	325	50	4.1	2.0-14.5 SL		13	13	7.0	2.9-16.5 SL		105.0
PRIONOTUS CAROLINUS	101	23	5.3	3.1- 8.2 SL		2	2	4.1	4.0- 4.3 SL		32.6
PRIONOTUS EVOLANS						1	1	4.8	SL		0.2
CITHARICHTHYS ARCTIFRONS	453	24	6.1	4.1-10.7 SL		42	42	6.5	3.3-12.4 SL		146.4
ETROPUS MICROSTOMUS	114	25	6.7	2.6- 9.9 SL		12	12	8.0	4.9-11.6 SL		36.9
HIPPUGLOSSINA OBLONGUS	10	8	8.9	4.7-12.9 SL		1	1	11.3	SL		3.2
ADDITIONAL LARVAE CAUGHT	PISCODONOPHIS CRUENTIFER					OPHIDIIDAE					
	CPHIDIIDAE										
	URANOSCOPIIDAE										
	STROMATEIDAE										
	UNIDENTIFIED										
.....											
H 6 21 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	96	59	7.4	4.4-15.0 TL							32.0
UROPHYCIS CHUSS	76	13	4.2	2.7- 7.8 NL		7	7	3.7	3.1- 4.2 NL		25.3
TAUTOGLABRUS ADSPERSUS	1	1	6.9	TL							0.3
AUXIS SP.	16	16	5.5	4.0-15.1 SL							5.3
PEPRILUS TRIACANTHUS	46	46	5.2	2.8-18.2 SL							15.3
PRIONOTUS CAROLINUS	36	36	4.6	2.8- 6.6 SL		1	1	5.7	SL		12.0
CITHARICHTHYS ARCTIFRONS	74	25	5.3	3.1-13.2 SL		10	10	6.8	3.3-15.2 SL		25.5
ETROPUS MICROSTOMUS	31	31	6.9	3.3- 9.5 SL		1	1	6.6	SL		10.3
HIPPUGLOSSINA OBLONGUS	51	51	5.4	3.7- 7.5 SL		2	2	4.4	4.1- 4.6 SL		17.0
GLYPTOCEPHALUS CYMOGLOSSUS	1	1	20.1	SL							0.3
LIMANDA FERRUGINEA						4	4	10.7	9.7-11.9 SL		1.3
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					OPHIDIIDAE					
	CPHIDIIDAE										
	URANOSCOPIIDAE										
.....											
H 7 21 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	2	2	16.8	8.1-25.5 TL							0.7
LOPHIUS AMERICANUS						5	5	13.3	9.1-24.2 TL		1.7
UROPHYCIS SP.	12	11	2.4	2.0- 2.6 NL		1	1	2.5	NL		4.0
MERLUCCIIUS BILINEARIS					0	2	2	15.1	15.0-19.2 NL	0	0.7
AUXIS SP.	13	13	6.0	4.1-12.5 SL							4.3
PEPRILUS TRIACANTHUS	14	13	4.3	2.8- 5.5 SL		2	2	6.0	5.0- 7.1 SL		4.9
CITHARICHTHYS ARCTIFRONS	11	8	4.3	3.4- 6.0 SL		15	13	13.0	10.7-15.2 SL		8.3
LIMANDA FERRUGINEA						2	2	10.0	9.9-10.0 SL		0.7
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					OPHIDIIDAE					
.....											
J 1 22 08	SAMPLING DEPTH 0- 6M										
ANCHOA MITCHELLI	4	4	9.1	6.3-11.2 TL							0.5
ETROPUS MICROSTOMUS	3	3	3.7	3.4- 4.2 SL							0.4
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....											
J 2 22 08	SAMPLING DEPTH 0- 6M										
ETROPUS MICROSTOMUS	2	1	3.3	SL							0.2
ADDITIONAL LARVAE CAUGHT	URANOSCOPIIDAE										
.....											
J 3 22 08	SAMPLING DEPTH 0- 6M										
ETROPUS MICROSTOMUS	3	1	2.8	SL							0.4
SYMPHURUS SP.	2	1	3.8	SL							0.2
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....											
J 4 22 08	SAMPLING DEPTH 0- 6M										
ENGRAULIS EURYSTOLE	6	6	11.7	6.3-21.0 TL							0.7
MICROPOGON UNULATUS	48	47	3.8	3.0- 6.0 SL							5.8
PEPRILUS TRIACANTHUS	3	2	4.5	2.2- 6.8 SL							0.4
PRIONOTUS CAROLINUS	4	4	5.6	3.5- 7.9 SL							0.5
CITHARICHTHYS ARCTIFRONS	1	1	11.8	SL							0.1
ETROPUS MICROSTOMUS	24	22	6.6	2.2-11.7 SL							2.9
SYMPHURUS SP.	7	6	4.9	3.4- 5.4 SL							0.8
ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE										
	SCIAENIDAE										
	TRIGLIDAE										

TABLE 3. (continued)

CRUISE DATE D6610 1966	STA. D M	SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
			NUMBER	LENGTHS (MM)	NO.	EGGS	NUMBER	LENGTHS (MM)	NO.	EGGS		
J 5	22 08		TOTAL MEAS.	MEAN RANGE MEAS.		TOTAL MEAS.	MEAN RANGE MEAS.					
			SAMPLING DEPTH 0-15M									
		PISODONOPHIS CRUENTIFER	1	1 79.0							0.3	
		ENGRAULIS EURYSTOLE	62	35 7.5 3.7-10.2	TL						18.8	
		UROPHYCIS CHUSS	2	2 16.1 15.1-17.2	NL						0.6	
		CENTROPYRISTIS STRIATA	8	8 6.5 4.2-10.7	SL						2.4	
		MICROPOGON UNULATUS	1	1 3.2	SL						0.3	
		AUXIS SP.	1	1 6.1	SL						0.3	
		PEPRILUS TRIACANTHUS	14	14 8.9 2.3-23.1	SL						4.2	
		PRIONOTUS CAROLINUS	5	5 7.2 3.7- 8.9	SL						1.5	
		CITHARICHTHYS ARCTIFRONS	12	11 7.1 5.1-11.1	SL						3.6	
		ETROPUS MICROSTOMUS	341	25 4.6 2.8-10.6	SL						13.3	
		SYMPHURUS SP.	1	1 4.0	SL						0.3	
		ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE									
			STROMATEIDAE									
			TETRAODONTIDAE									
J 6	23 08		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
		PISODONOPHIS CRUENTIFER	2	2 44.3 39.7-49.0	TL						0.7	
		ENGRAULIS EURYSTOLE	70	42 10.2 5.0-27.5	TL		2	2 8.6 6.9-10.3	TL		23.3	
		LCPHIUS AMERICANUS	2	2 6.5 5.7- 7.4	TL						0.7	
		UROPHYCIS CHUSS	5	5 13.4 11.6-15.5	NL		2	2 7.4 4.7-10.2	NL		2.2	
		CENTROPYRISTIS STRIATA	1	1 9.4	SL						0.3	
		PCMATOMUS SALTATRIX	1	1 7.6	SL						0.3	
		AUXIS SP.	1	1 15.7	SL						0.3	
		PEPRILUS TRIACANTHUS	9	9 4.4 2.6- 6.9	SL						3.0	
		PRIONOTUS CAROLINUS	6	5 8.4 7.3- 9.6	SL		2	1 8.0	SL		2.5	
		CITHARICHTHYS ARCTIFRONS	86	25 7.4 5.1-13.2	SL		3	3 10.5 5.8-13.7	SL		28.7	
		ETROPUS MICROSTOMUS	107	25 6.1 3.3-11.6	SL		8	8 6.4 3.4-11.0	SL		35.7	
		HIPPOGLOSSINA OBLONGUS	11	11 7.6 4.0-13.3	SL		3	3 9.8 8.3-10.6	SL		4.3	
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1 27.1	SL		1	1 34.7	SL		0.6	
		SYMPHURUS SP.	1	1 8.3	SL						0.3	
		ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE				OPHIDIIDAE					
			URANOSCFILAE				TRIGLIDAE					
J 7	23 08		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
		PISODONOPHIS CRUENTIFER	6	6 45.8 32.0-67.5	TL		1	1 49.5	TL		2.1	
		LCPHIUS AMERICANUS					5	5 5.6 3.8- 7.3	TL		1.7	
		UROPHYCIS CHUSS					236	22 4.1 2.2- 8.6	NL		78.7	
		UROPHYCIS CHUSS					1	1 3.2	NL		0.3	
		MERLUCCIIUS BILINEARIS					1	1 5.7	NL	0	0.3	
		TAUTOGLABRUS ADSPERSUS					1	1 10.0	TL		0.3	
		AUXIS SP.	17	16 7.4 5.0-10.3	SL						5.7	
		PEPRILUS TRIACANTHUS	9	9 6.9 6.5- 8.5	SL		209	50 5.4 3.3- 8.0	SL		72.4	
		CITHARICHTHYS ARCTIFRONS	2				300	25 7.7 3.9-14.1	SL		100.6	
		ETROPUS MICROSTOMUS	1	1 5.0	SL		32	32 6.4 3.7-10.5	SL		11.0	
		HIPPOGLOSSINA OBLONGUS	6	6 3.0 2.7- 3.2	SL		92	50 5.7 4.1- 7.2	SL		22.5	
		GLYPTOCEPHALUS CYNOGLOSSUS					1	1 17.9	SL		0.3	
		LIMANDA FERRUGINEA					2	2 11.6 10.4-12.7	SL		0.7	
		ADDITIONAL LARVAE CAUGHT	PISODONOPHIS CRUENTIFER				PISODONOPHIS CRUENTIFER					
			UNIDENTIFIED				OPHIDIIDAE					
							STROMATEIDAE					
							UNIDENTIFIED					
K 1	24 08		SAMPLING DEPTH 0-6M									
		ANCHOA HEPSETUS	4	4 6.7 3.4- 8.7	TL						0.5	
		MICROPOGON UNULATUS	6	6 4.3 3.2- 4.9	SL						0.7	
		PRIONOTUS CAROLINUS	2	2 3.6 3.3- 4.0	SL						0.2	
		SYMPHURUS SP.	2	2 3.0 2.5- 3.4	SL						0.2	
		ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE									
			GOBIIDAE									
			UNIDENTIFIED									
K 2	24 08		SAMPLING DEPTH 0-6M									
		ANCHOA HEPSETUS	7	7 10.7 3.6-21.0	TL						0.8	
		MICROPOGON UNULATUS	12	12 5.3 4.8- 5.8	SL						1.5	
		AUXIS SP.	1	1 6.1	SL						0.1	
		PEPRILUS TRIACANTHUS	2	2 3.5 3.5- 3.5	SL						0.2	
		PRIONOTUS CAROLINUS	4	4 3.6 2.3- 5.0	SL						0.9	
		CITHARICHTHYS ARCTIFRONS	1	1 4.2	SL						0.1	
		SYMPHURUS SP.	5	3 8.7 4.1-11.1	SL						0.6	
		ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE									
			URANOSCFILAE									
			UNIDENTIFIED									

TABLE 3. (continued)

110

CRUISE DATE D6610 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE
	NUMBER	MEAN	LENGTHS (MM)	RANGE		NUMBER	MEAN	LENGTHS (MM)	RANGE	
K 3 24 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M				
ENGFAULIS EURYSTOLE	25	24	6.7	2.7-18.1	TL					7.6
UROPHYCIS SP.	1	1	4.4		NL					0.3
CENTROPPISTIS STRIATA	2	2	4.6	3.2-6.1	SL					0.6
MICROPYGON UNICULATUS	4	4	4.7	4.2-5.3	SL					1.2
PEPRILUS TRIACANTHUS	1	1	4.9		SL					0.3
ETRECPUS MICROSTOMUS	44	25	3.5	2.2-11.8	SL					13.3
SYMPHURUS SP.	9	9	4.6	2.8-6.8	SL					2.7
ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE					SYNODONTIDAE				
	OPHIIDIIDAE					OPHIIDIIDAE				
	SERRANIIDAE					SERRANIIDAE				
	GRAMMISTICAE					GRAMMISTICAE				
	GOBIIDAE					GOBIIDAE				
	UNIDENTIFIED					UNIDENTIFIED				
K 4 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M				
PISODONOPHIS CRUENTIFER	4	4	52.6	39.8-63.5	TL					1.3
ENGFAULIS EURYSTOLE	18	16	9.7	4.0-24.1	TL					5.8
LOPHIUS AMERICANUS						1	1	24.5		0.2
CENTROPPISTIS STRIATA	1					2	2	11.4	11.0-11.8	0.6
PEMATOMUS SALATRIX	1	1	6.6		SL					0.3
MICROPYGON UNICULATUS	1	1	4.3		SL					0.3
PEPRILUS TRIACANTHUS	1	1	3.4		SL	5	5	8.5	6.1-12.9	1.1
PRINCOTUS CARLINIUS	1	1	4.0		SL					0.3
CITHARICHTHYS ARCTIFRONS	2	2	7.5	6.2-8.7	SL	3	3	10.8	8.6-12.5	1.1
ETRECPUS MICROSTOMUS	80	25	4.5	2.3-8.3	SL	12	12	10.6	3.7-12.7	26.5
HIPPOGLOSSINA OBLONGUS						3	2	7.4	6.7-8.0	0.5
SYMPHURUS SP.	2	2	4.8	4.2-5.4	SL					0.6
ADDITIONAL LARVAE CAUGHT	PISODONOPHIS CRUENTIFER					OPHIIDIIDAE				
	SYNODONTIDAE					SYNODONTIDAE				
	LOPHIICFAMES					LOPHIICFAMES				
	OPHIIDIIDAE					OPHIIDIIDAE				
	URANOSCOPICAE					URANOSCOPICAE				
	STROMATEIDAE					STROMATEIDAE				
K 5 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M				
OPHICHTHYS OCELLATUS	1	1	61.0		TL					0.3
PISODONOPHIS CRUENTIFER	1	1	61.3		TL					0.3
ANCHOA MOPSETUS	3	3	13.3	12.0-15.7	TL					1.0
ENGFAULIS EURYSTOLE	2	2	15.0	13.1-17.0	TL					0.6
UROPHYCIS CHUSS	10	8	4.1	2.7-5.7	NL	9	7	3.8	2.9-4.5	4.5
CENTROPPISTIS STRIATA	2	2	5.0	5.0-5.0	SL	1	1	5.4		0.8
MENTICIRRHUS SP.	1	1	5.9		SL					0.3
TAUTOGLABRUS ADSPERSUS						2				0.3
AUXIS SP.	1	1	14.1		SL					0.3
PEPRILUS TRIACANTHUS	16	16	6.1	4.0-11.0	SL	16	16	7.1	4.7-11.5	7.5
PRINCOTUS CARLINIUS						1				0.2
CITHARICHTHYS ARCTIFRONS	46	25	7.6	4.6-10.7	SL	25	29	8.6	6.6-12.6	18.8
ETRECPUS MICROSTOMUS	34	33	5.9	2.1-11.5	SL	9	8	5.1	4.5-7.1	11.9
HIPPOGLOSSINA OBLONGUS	3	3	10.2	6.2-14.3	SL	3	3	5.4	8.5-10.2	1.4
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	27.1		0.2
ADDITIONAL LARVAE CAUGHT	PISODONOPHIS CRUENTIFER					OPHIIDIIDAE				
	OPHIIDIIDAE					OPHIIDIIDAE				
	URANOSCOPICAE					URANOSCOPICAE				
	GOBIIDAE					GOBIIDAE				
K 6 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M				
LOPHIUS AMERICANUS	3	3	16.1	9.1-20.4	TL	1	1	12.4		1.2
UROPHYCIS CHUSS	11	8	4.5	3.3-5.5	NL					3.7
AUXIS SP.	1	1	4.9		SL					0.3
PEPRILUS TRIACANTHUS	5	5	5.4	2.0-8.7	SL	2	2	6.0	5.0-7.1	2.2
PRINCOTUS CARLINIUS	1	1	3.7		SL					0.3
CITHARICHTHYS ARCTIFRONS	58	25	5.3	4.1-7.1	SL	28	26	6.6	4.2-11.7	26.7
ETRECPUS MICROSTOMUS	19	19	4.2	2.7-5.7	SL	2	2	5.5	4.1-7.6	6.4
HIPPOGLOSSINA OBLONGUS	5	5	6.9	5.4-8.7	SL	1				1.8
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE					OPHIIDIIDAE				
	URANOSCOPICAE					URANOSCOPICAE				
	UNIDENTIFIED					UNIDENTIFIED				
K 7 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M				
UROPHYCIS CHUSS	5	2	2.6	1.5-3.8	NL					1.7
AUXIS SP.	1	1	12.5		SL					0.3
PEPRILUS TRIACANTHUS	2	1	2.5		SL	2	2	4.6	4.4-4.9	1.3
CITHARICHTHYS ARCTIFRONS	4	4	4.0	3.2-4.9	SL					1.3
ETRECPUS MICROSTOMUS	1	1	3.9		SL	2	2	5.5	5.5-5.5	1.0
HIPPOGLOSSINA OBLONGUS	5	4	4.9	3.0-7.4	SL	1	1	3.7		1.8
ADDITIONAL LARVAE CAUGHT	OPHIICHTHIDAE					OPHIIDIIDAE				
	STROMATEICAE					STROMATEICAE				
	UNIDENTIFIED					UNIDENTIFIED				

TABIE 3. (continued)

CRUISE DATE D6610 1966	STA. D M	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS	
			NUMBER	LENGTHS (MM)			NO.	NUMBER	LENGTHS (MM)			NO.			
L 1	25 08		TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS			
		ENGRAULIS EURYSTOLE	40	39	8.6	2.1-19.0	TL							4.8	
		LARIMUS FASCIATUS	2	2	5.6	5.1-6.2	SL							0.2	
		MENTICIRRHUS SP.	1											0.1	
		MICROPOGON UNULATUS	12	12	4.9	4.1-5.7	SL							1.5	
		ETROPUS MICROSTOMUS	1	1	10.7		SL							0.1	
		SYMPHURUS SP.	8	8	5.3	2.9-9.6	SL							1.0	
		ADDITIONAL LARVAE CAUGHT	SYNODONTICAE												
			OPHIDIICAE												
			SCIAENICAE												
			GOBIIDAE												
			UNIDENTIFIED												
.....															
L 2	25 08		SAMPLING DEPTH 0-6M												
		ENGRAULIS EURYSTOLE	48	46	10.3	3.9-16.3	TL							5.8	
		LARIMUS FASCIATUS	4	4	4.3	3.2-5.2	SL							0.5	
		MENTICIRRHUS SP.	3	3	4.8	4.2-5.7	SL							0.4	
		MICROPOGON UNULATUS	12	12	4.2	3.2-5.9	SL							1.5	
		AUXIS SP.	1	1	6.5		SL							0.1	
		PRIONOTUS CAROLINUS	4	4	6.1	4.6-7.9	SL							0.5	
		ETROPUS MICROSTOMUS	15	15	8.6	4.1-12.2	SL							1.8	
		SYACIUM PAPILLOSUM	6	6	7.4	5.4-9.7	SL							0.7	
		SYMPHURUS SP.	48	25	5.2	3.6-9.6	SL							5.8	
		ADDITIONAL LARVAE CAUGHT	SYNODONTICAE												
			OPHIDIICAE												
			SCIAENICAE												
			LABRIDAE OR SCARIDAE												
			BLENNIICAE												
			CALLIONYMIDAE												
			GOBIIDAE												
			SCORPAENICAE												
			BALISTICAE												
			UNIDENTIFIED												
.....															
L 3	25 08		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
		ANCHOA MESPSETLS	3	2	11.5	10.0-13.1	TL							1.0	
		ENGRAULIS EURYSTOLE	253	122	8.5	4.1-17.0	TL	16	15	11.3	3.8-18.8	TL		81.8	
		UROPHYCIS CHUSS	1	1	1.0		NL							0.3	
		CENTROPRESTIS STRIATA	5	5	4.5	3.2-6.3	SL	8	8	6.6	3.6-8.4	SL		2.8	
		LARIMUS FASCIATUS	3	3	3.6	3.4-3.9	SL							1.0	
		MENTICIRRHUS SP.	4	3	4.5	3.8-5.9	SL							1.3	
		MICROPOGON UNULATUS	2	2	4.4	4.3-4.6	SL							0.6	
		AUXIS SP.	3	3	5.1	4.5-6.1	SL							1.0	
		EUTYMNUS ALLETERATUS	1	1	7.9		SL							0.3	
		PEPRILUS TRIACANTHUS	4	4	4.0	3.2-6.0	SL	5	5	4.7	2.0-6.0	SL		2.0	
		PRIONOTUS CAROLINUS	2	2	3.6	3.6-3.7	SL							0.6	
		CYTHARICHTHYS ARCTIFRONS						1						0.2	
		ETROPUS MICROSTOMUS	132	25	5.1	3.5-9.9	SL	34	33	6.6	2.8-11.1	SL		46.0	
		HIPPGLLOSSINA OBLONGUS						1	1	7.2		SL		0.2	
		SYACIUM PAPILLOSUM	5	4	5.0	4.7-5.2	SL							1.6	
		SYMPHURUS SP.	18	14	5.3	3.0-11.1	SL							5.8	
		ADDITIONAL LARVAE CAUGHT	SYNODONTICAE					SYNODONTICAE							
			LOPHIIFORMES					OPHIDIICAE							
			OPHIDIICAE					SCIAENICAE							
			SERRANICAE					GOBIIDAE							
			CARANGIDAE					UNIDENTIFIED							
			SCIAENICAE												
			LABRIDAE OR SCARICAE												
			CALLIONYMIDAE												
			GOBIIDAE												
			STROMATEICAE												
			TRIGLICAE												
.....															
L 4	25 08		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
		ENGRAULIS EURYSTOLE	53	51	7.8	5.0-14.1	TL	3	3	15.4	14.1-16.3	TL		17.7	
		UROPHYCIS CHUSS	1	1	4.6		NL							0.3	
		CENTROPRESTIS STRIATA	5	5	3.2	2.1-4.3	SL	1	1	7.9		SL		1.8	
		LARIMUS FASCIATUS	7	7	3.3	2.9-4.0	SL							2.3	
		MICROPOGON UNULATUS	21	21	3.1	2.3-4.1	SL							7.0	
		AUXIS SP.						4	4	5.4	3.5-9.8	SL		1.3	
		PEPRILUS TRIACANTHUS	10	10	2.9	1.5-4.1	SL							3.3	
		PRIONOTUS CAROLINUS	1	1	5.1		SL							0.3	
		CYTHARICHTHYS ARCTIFRONS	11	11	8.1	4.1-13.4	SL	3	3	4.8	4.2-5.3	SL		4.3	
		ETROPUS MICROSTOMUS	24	24	4.4	2.8-6.1	SL	10	10	4.5	3.2-8.3	SL		10.5	
		HIPPGLLOSSINA OBLONGUS	2	2	3.4	2.4-4.4	SL							0.7	
		SYACIUM PAPILLOSUM	1	1	4.8		SL							0.3	
		SYMPHURUS SP.	7	7	4.2	3.2-5.1	SL							2.3	
		ADDITIONAL LARVAE CAUGHT	SYNODONTICAE					OPHIDIICAE							
			LOPHIIFORMES												
			OPHIDIICAE												
			CARANGIDAE												
			SCIAENICAE												
			LABRIDAE OR SCARICAE												
			UNIDENTIFIED												

TABLE 3. (continued)

112

CRUISE DATE D661C 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.		TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.		
1 5 25 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ANCHOA HEPSETUS	8	7	10.5	6.8-13.0 TL						2.7	
PEPRILUS TRIACANTHUS	8	7	2.8	2.4- 3.1 SL						2.7	
CITHARICHTHYS ARCTIFRONS	1	1	3.0		1	1	3.1		SL	0.6	
ETROPUS MICROSTOMUS	2	2	3.1	2.7- 3.5 SL						0.7	
SYMPHURUS SP.					1	1	5.5		SL	0.3	
ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE				UNIDENTIFIED						
	OPHIIDIIDAE										
	SCIAENIDAE										
	LABRIDAE OR SCARIDAE										
	CALLIONYMIDAE										
	STROMATEIDAE										
	TETRAODONTIDAE										
.....											
M 1 25 08	SAMPLING DEPTH 0-6M										
ANCHOA HEPSETUS	57	52	7.8	3.4-15.0 TL						6.9	
CENTROPOMUS STRIATUS	1	1	3.3							0.1	
LARIMUS FASCIATUS	4	4	3.3	3.1- 3.6 SL						0.5	
MENTICIRRHUS SP.	5	5	3.6	3.2- 4.0 SL						0.6	
MICROPOGON UNICULATUS	15	15	3.4	2.8- 4.1 SL						1.8	
AUXIS SP.	1	1	6.5							0.1	
PEPRILUS TRIACANTHUS	1	1	3.8							0.1	
ETROPUS MICROSTOMUS	2	2	4.2	3.1- 5.2 SL						0.2	
SYACIUM PAPILLOSUM	1	1	4.9							0.1	
SYMPHURUS SP.	3	3	4.1	3.4- 4.9 SL						0.4	
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE										
	SCIAENIDAE										
	LABRIDAE OR SCARIDAE										
	SPHYRAENIDAE										
	LANGSCOFFIDAE										
	BLENNIIDAE										
	GOBIIDAE										
	BALISTIDAE										
	UNIDENTIFIED										
.....											
M 2 25 08	SAMPLING DEPTH 0-6M										
ENGFAULIS EURYSTOIE	60	57	7.6	2.6-13.7 TL						7.3	
LARIMUS FASCIATUS	9	9	2.9	2.2- 3.7 SL						1.1	
MICROPOGON UNICULATUS	97	57	3.0	2.4- 3.8 SL						11.8	
AUXIS SP.	2	2	8.3	8.2- 8.5 SL						0.2	
EUTYNNUS ALLIETTERATUS	1	1	4.3							0.1	
ETROPUS MICROSTOMUS	9	9	6.0	4.3- 8.0 SL						1.1	
SYACIUM PAPILLOSUM	3	3	6.5	4.2- 9.2 SL						0.4	
SYMPHURUS SP.	19	19	4.5	2.5- 8.2 SL						2.3	
ADDITIONAL LARVAE CAUGHT	OPHIICHTHIDAE										
	CYCLOTHONE SP.										
	SYNODONTIDAE										
	OPHIIDIIDAE										
	CARANGIDAE										
	LABRIDAE OR SCARIDAE										
	BLENNIIDAE										
	CALLIONYMIDAE										
	GOBIIDAE										
	TRIGLICAE										
	BALISTIDAE										
	UNIDENTIFIED										

TABLE 3. (continued)

113

CRUISE DATE 0661C 1966 STA. DM SPECIES ANALYZED M 3 25 CB	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE EGGS
	NUMBER	LENGTHS (MM)	NO.	NO.		NUMBER	LENGTHS (MM)	NO.	NO.	
	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	
	SAMPLING DEPTH 0-15M									
CALLECHELUS PERRYAE	1	1	77.5							0.3
OPHICHTHUS GOMESI	1	1	24.1							0.3
SARCIHELLA ANCHOVIA	21	21	7.2	5.5-9.4	TL					6.4
ENGRAULIS EURYSTOLE	195	65	5.1	2.5-11.2	TL					59.1
CYNOSCION SP.	1	1	3.6		SL					0.3
LARIMUS FASCITATUS	13	12	2.9	2.3-4.4	SL					3.9
MENTICIRRHUS SP.	9	9	3.3	2.7-4.0	SL					2.7
MICROPYGON UNULATUS	24	24	3.4	3.0-4.1	SL					7.3
AUXIS SP.	5	5	4.1	3.4-4.5	SL					1.5
EUTHYNNUS ALLETTEMATUS	7	7	6.3	3.9-11.1	SL					2.1
PRIONOTUS CAROLINUS	1	1	5.5		SL					0.3
BETHUS OCELLATUS	5	5	6.2	3.7-9.4	SL					1.5
ETROPUS MICROSTOMUS	5	5	6.5	5.0-9.2	SL					1.5
SYACIUM PAPILLOSUM	11	11	4.9	3.0-7.3	SL					3.3
SYMPHURUS SP.	20	20	5.7	2.8-9.3	SL					6.1

ADDITIONAL LARVAE CAUGHT

OPHICHTHIDAE
SYNDONTIDAE
LOPHIIFORMES
OPHIDIIDAE
SERRANIDAE
CARANGIDAE
SCIAENIDAE
LABRIDAE OR SCARIDAE
SPHYRAENIDAE
BLENNIIDAE
CALLICAMPIDAE
GOBIIDAE
SCORPAENIDAE
TRIGLIDAE
BALISTIDAE
UNIDENTIFIED

M 4 25 OE	SAMPLING DEPTH 0-15M				NO. EGGS	SAMPLING DEPTH 18-24M				NO. PER 10M ² LARVAE EGGS	
	NUMBER	LENGTHS (MM)	NO.	NO.		NUMBER	LENGTHS (MM)	NO.	NO.		
	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS		
PISCODONOPHIS CRUENTIFER	1	1	22.2							0.3	
SARCIHELLA ANCHOVIA	18	18	7.5	6.5-8.8	TL					5.8	
ENGRAULIS EURYSTOLE	88	54	6.4	2.5-10.2	TL	3	2	6.0	3.3-8.7	TL	28.4
MYCTOPHIDAE	1	1	4.0		SL					0.3	
CERATOSCOPELUS NAMMINGI	1	1	10.3		SL					0.3	
CIAPHUS SP.						1	1	9.4		SL	0.2
LARIMUS FASCITATUS	1									0.3	
MENTICIRRHUS SP.						1	1	3.7		SL	0.2
AUXIS SP.	2	2	6.0	5.1-7.0	SL					0.6	
EUTHYNNUS ALLETTEMATUS	4	4	6.1	4.2-6.8	SL					1.3	
KATSUWONUS PELAMIS	1	1	5.5		SL					0.3	
PEPRILUS TRIACANTHUS	5	5	2.9	2.0-3.5	SL					1.6	
PRIONOTUS CAROLINUS						1	1	5.8		SL	0.2
BETHUS OCELLATUS	11	11	4.3	2.2-7.3	SL					3.6	
ETROPUS MICROSTOMUS	6	6	4.1	2.9-7.1	SL					1.9	
SYACIUM PAPILLOSUM	45	44	3.8	2.2-5.4	SL					14.5	
SYMPHURUS SP.	8	8	4.8	2.6-12.2	SL	6	6	5.5	3.3-10.4	SL	3.4

ADDITIONAL LARVAE CAUGHT

ANGUILLIFORMES
MURAENIDAE
OPHICHTHIDAE
SYNDONTIDAE
LOPHIIFORMES
OPHIDIIDAE
CARANGIDAE
SERRANIDAE
GRAMMISTIDAE
APOGONIDAE
CARANGIDAE
LABRIDAE OR SCARIDAE
SPHYRAENIDAE
CALLICAMPIDAE
GOBIIDAE
TRICHLURIDAE
SCORPAENIDAE
TRIGLIDAE
DACTYLCTERUS VELITANS
BALISTIDAE
UNIDENTIFIED

SYNDONTIDAE
OPHIDIIDAE
SERRANIDAE
LABRIDAE OR SCARIDAE
CALLIONYMIDAE
GOBIIDAE
TRIGLIDAE
UNIDENTIFIED

TABLE 3. (continued)

CRUISE DATE D661C 1966 STA. D M SPECIES ANALYZED M 5 25 08	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M ² EGGS
	NUMBER		LENGTHS (MM)			NUMBER		LENGTHS (MM)			
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.		
ENGRaulis EURYSTOE	268	71	4.7	2.5-10.3	TL	21	20	6.2	3.5-10.8	TL	89.3
CERATOSCOPELUS WARMINGI						1	1	4.8		SL	0.3
DIAPHUS SP.						2	2	3.8	3.2- 4.5	SL	0.7
LAMFANYCTUS ALATUS CR PHOTONOTUS						1	1	7.1		SL	0.3
LAMFANYCTUS CLPRINUS						1	1	6.6		SL	0.3
LARINUS FASCIATUS	4	4	3.1	2.9- 3.5	SL	2	2	3.0	2.4- 3.7	SL	1.9
MENTICIRRHUS SP.	1	1	2.7		SL						0.3
MICROPOGON UNDLATUS	1	1	3.4		SL	1	1	3.4		SL	0.6
AUXIS SP.	1	1	4.8		SL						0.3
EUTHYNNUS ALLETENATUS	2	2	6.1	4.9- 7.4	SL	2	2	5.1	5.1- 5.2	SL	1.3
PRIONOTUS CAROLINUS	2	2	5.5	5.7- 6.2	SL	6	6	5.1	4.6- 6.1	SL	2.6
BETHUS OCCELLATUS	3	3	6.3	4.0- 9.0	SL						1.0
SYACIUM PAPILLOSUM	19	19	4.2	1.9-11.3	SL						6.3
SYMPHURUS SP.	7	6	4.9	3.4- 6.2	SL	5	5	5.0	3.5- 8.1	SL	3.8
ADDITIONAL LARVAE CAUGHT											
		MURAENICAE				NETTASTOMATIDAE					
		SYNOODONTIDAE				SYNOODONTICAE					
		OPHIIDIICAE				PARALEPIDICAE					
		SERRANICAE				LOPHIIFORMES					
		CARANGICAE				BREGMACERCTICAE					
		LABRIDAE OR SCARICAE				OPHIIDIIDAE					
		CALLIONYPTICAE				CARAPIDAE					
		GOBIIDAE				SERRANIDAE					
		SCORPAENICAE				CARANGIDAE					
		TRIGLIDAE				LABRIDAE CR SCARICAE					
		BALISTICAE				BLENNIIDAE					
		UNIDENTIFIED				CALLIONYPTICAE					
						GOBIIDAE					
						STROMATEIDAE					
						SCORPAENICAE					
						TRIGLIDAE					
						BALISTICAE					
						TETRAODONTICAE					
						UNIDENTIFIED					

K 1 25 08	SAMPLING DEPTH C-15M				TL	
LETHARCHUS VELIFEM	1	1	40.5		TL	0.3
SARCINELLA ANCHOVIA	5	5	16.3	13.0-19.0	TL	1.5
ENGRaulis EURYSTOE	465	145	6.4	2.8-18.8	TL	140.9
CENTROPRIETIS STRIATA	1	1	4.5		SL	0.3
LARINUS FASCIATUS	32	32	3.0	2.2- 3.7	SL	9.7
MENTICIRRHUS SP.	12	9	3.1	2.4- 3.6	SL	3.6
MICROPOGON UNDLATUS	5	5	3.3	3.2- 3.5	SL	1.5
AUXIS SP.	1	1	6.0		SL	0.3
EUTHYNNUS ALLETENATUS	13	13	5.5	4.7- 8.9	SL	3.9
PEPRILUS TRIACANTHUS	4	4	3.2	2.2- 4.5	SL	1.2
PRIONOTUS CAROLINUS	17	17	4.1	2.8- 6.1	SL	5.2
BETHUS OCCELLATUS	8	8	7.4	3.4-17.4	SL	2.4
CYCLOPSETTA FIMBRIATA	5	5	6.5	5.4- 7.8	SL	1.5
SYACIUM PAPILLOSUM	78	25	5.1	3.1- 8.3	SL	13.6
SYMPHURUS SP.	27	24	5.2	3.2-14.4	SL	8.2
ADDITIONAL LARVAE CAUGHT						
		MURAENICAE				
		SYNOODONTIDAE				
		LOPHIIFORMES				
		OPHIIDIICAE				
		SERRANICAE				
		GRAMMISTICAE				
		CARANGICAE				
		LABRIDAE OR SCARIDAE				
		URANOSCOPICAE				
		CALLIONYPTICAE				
		GOBIIDAE				
		TRICHIURICAE				
		SCORPAENIDAE				
		TRIGLIDAE				
		BALISTICAE				
		UNIDENTIFIED				

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****						
D661C 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M		
STA.	D M	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS	
SPECIES ANALYZED		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 10-33M						
N 4	26 08											
		1	1	34.3	TL						0.3	
		7	7	9.6	9.0-11.2	TL					2.3	
		16	16	7.6	3.5-16.9	TL	36	33	6.1	3.5-10.6	TL	16.8
							1	1	3.9		SL	0.3
							1	1	2.6		SL	0.3
							1	1	6.9		SL	0.3
							2	2	2.7	2.5-2.9	SL	0.7
		1	1	5.7		SL	2	2	4.3	4.1-4.5	SL	1.0
		4	3	5.3	4.5-5.8	SL	9	9	4.3	3.9-4.9	SL	4.2
		3	3	4.1	3.6-4.7	SL	4	4	4.3	3.7-5.0	SL	2.2
							2	2	2.7	2.5-3.0	SL	0.7
							16	16	3.1	2.1-4.5	SL	5.3
		1	1	4.3		SL	3	3	5.6	5.5-7.0	SL	1.3
		6	6	3.5	2.2-4.7	SL	2	2	4.6	4.4-4.7	SL	2.5
		1	1	10.2		SL	6	6	4.2	3.2-7.9	SL	2.3
		ADDITIONAL LARVAE CAUGHT					ADDITIONAL LARVAE CAUGHT					
		LOPHIIFORMES					ANGUILLIFORMES					
		OPHIIDIACE					SYNODONTIACE					
		SERRANICE					LOPHIIFORMES					
		CARANGIACE					OPHIIDIACE					
		LABRIDAE OR SCARIDAE					CARANGIACE					
		CALLIONYPTIACE					LABRIDAE OR SCARIDAE					
		GOBIIDAE					CALLIONYPTIACE					
		SCORPAENIACE					GOBIIDAE					
		TRIGLIDAE					TRIGLIDAE					
		BALISTIACE					BALISTIACE					
							TETRAODONTIACE					
							UNIDENTIFIED					
.....												
N 5	26 07											
		2	2	17.7	14.0-21.5	NL					0.7	
		8	8	9.6	6.9-12.0	TL	1	1	10.3		TL	2.7
		1	1	13.7		TL						0.3
							1	1	4.1		SL	0.3
							3	3	6.1	4.0-9.9	SL	1.0
							1	1	2.8		SL	0.3
		25	24	5.7	3.3-22.8	SL	5	5	5.2	4.2-6.1	SL	9.2
		28	23	5.6	3.7-23.2	SL	3	3	4.8	4.5-5.2	SL	9.4
		4	4	4.6	3.8-5.9	SL	2	2	5.6	5.6-5.7	SL	1.9
		1	1	4.2		SL	1	1	5.2		SL	0.6
		13	13	3.9	2.7-5.2	SL	2	2	4.4	4.2-4.6	SL	4.6
		3	2	4.5	3.7-5.2	SL						1.0
		ADDITIONAL LARVAE CAUGHT					ADDITIONAL LARVAE CAUGHT					
		OPHIOTHIDAE					OPHIOTHIDAE					
		CYCLOTIDAE SP.					NETTASTOMATIDAE					
		SYNODONTIACE					CYCLOTIDAE SP.					
		PARALEPTIACE					VINCIGUERRIA SP.					
		OPHIIDIACE					SYNODONTIACE					
		SERRANICE					MYCTOPHIDAE					
		GRAMMISTIACE					LOPHIIFORMES					
		PRIACANTHICE					OPHIIDIACE					
		CARANGIACE					CARANGIACE					
		CHAETODONTIACE					SERRANIDAE					
		LABRIDAE OR SCARIDAE					GRAMMISTIACE					
		CALLIONYPTIACE					MALACANTHUS SP.					
		GOBIIDAE					CARANGIACE					
		ACANTHURICE					POMACENTRICE					
		SCORPAENIACE					LABRIDAE OR SCARIDAE					
		BALISTIACE					CALLIONYPTIACE					
		TETRAODONTIACE					GOBIIDAE					
		UNIDENTIFIED					ACANTHURICE					
							STROMATEIACE					
							SCORPAENIACE					
							UNIDENTIFIED					
.....												
P 1	26 08											
		74	40	5.3	1.9-9.2	TL					9.0	
		1	1	3.7		SL					0.1	
		28	24	3.0	2.2-4.9	SL					3.4	
		ADDITIONAL LARVAE CAUGHT					ADDITIONAL LARVAE CAUGHT					
		SYNGNATHIDAE					SYNGNATHIDAE					
		CARANGIACE					CARANGIACE					
		BLENNIACE					BLENNIACE					
		TRIGLIDAE					TRIGLIDAE					
		BALISTIACE					BALISTIACE					
		UNIDENTIFIED					UNIDENTIFIED					

TABLE 3. (continued)

CRUISE DATE D661C 1966 STA. D M SPECIES ANALYZED P 2 26 08	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBEER	LENGTHS (MM)		NO.	EGGS	NUMBER	LENGTHS (MM)		NO.	EGGS		
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
ENGRAULIS EURYSTOIE	106	101	4.8	1.9-10.0	TL							12.8
MENTICIRRHUS SP.	1											0.1
MICROPOGON UNDULATUS	1	1	5.5		SL							0.1
FUTYNNUS ALLETTERATUS	2	2	5.8	5.7- 5.9	SL							0.2
SYMFURUS SP.	71	25	3.2	2.2- 6.2	SL							8.6
ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE SYNGNATHICAE SERRANICAE CARANGICAE LABRIDAE OR SCARIDAE BLENNIICAE GOBIIDAE TRIGLICAE BALISTICAE UNIDENTIFIED											
.....												
P 3 26 08	SAMPLING DEPTH 0- 6M											
SARCINELLA ANCHOVIA	4	4	6.9	4.4-11.5	TL							0.5
ENGRAULIS EURYSTOIE	33	31	5.7	3.2-10.0	TL							4.0
MENTICIRRHUS SP.	2	2	3.1	3.1- 3.2	SL							0.2
MICROPOGON UNDULATUS	1	1	3.0		SL							0.1
SYMFURUS SP.	3	3	3.7	2.9- 4.5	SL							0.4
ADDITIONAL LARVAE CAUGHT	MURAENICAE CPHIDIIDAE LABRIDAE OR SCARIDAE GOBIIDAE TRIGLICAE BALISTICAE UNIDENTIFIED											
.....												
P 4 26 08	SAMPLING DEPTH 0-15M											
OPHICHTHUS GOMEZI	1	1	30.3		TL							0.3
ENGRAULIS EURYSTOIE	38	36	8.1	5.2-11.9	TL							11.5
LARIMUS FASCIATUS	1	1	3.2		SL							0.3
AUXIS SP.	2	2	4.6	3.6- 5.6	SL							0.6
ELTHYNNUS ALLETTERATUS	7	7	5.6	4.8- 6.8	SL							2.1
SCOMBEROMORUS CAVALLA	2	2	5.8	5.2- 6.5	SL							0.6
BETHUS OCELLATUS	1	1	4.2		SL							0.3
SYACTUM PAPILLOSUM	8	8	3.9	2.8- 5.0	SL							2.4
SYMFURUS SP.	2	2	5.0	3.8- 6.2	SL							0.6
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. SYNOdontIDAE OPHIDIICAE CARANGICAE SERRANICAE GRAMMISTIDAE CARANGICAE LABRIDAE OR SCARIDAE BLENNIICAE CALLIONYMICAE GOBIIDAE TRICHTURIDAE STROMATEICAE SCORPAENIDAE TRIGLICAE BALISTICAE UNIDENTIFIED											
.....												
CRUISE DATE D661C 1966 STA. D M SPECIES ANALYZED P 5 26 08	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBEER	LENGTHS (MM)		NO.	EGGS	NUMBER	LENGTHS (MM)		NO.	EGGS		
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
ENGRAULIS EURYSTOIE	9	4	8.7	6.6-10.7	TL							3.0
CERATOSCOPELUS MADERENSIS	1	1	4.1		SL							0.3
DIOGENICHTHYS ATLANTICUS						1	1	7.9		SL		0.3
LEBIANCHIA SP.						1	1	5.8		SL		0.3
HEMANTHIA VIVANUS	1	1	3.7		SL							0.3
AUXIS SP.	8	8	6.2	3.9-11.2	SL	5	5	4.6	4.9- 8.0	SL		4.1
FUTYNNUS ALLETTERATUS	2	2	8.1	6.0- 10.2	SL							0.7
KATSUNONUS PELAMIS	2	2	5.7	4.9- 6.5	SL							0.7
THUNNUS ALBACARES OR ALALUNGA	2	2	5.4	4.6- 6.2	SL							0.7
BETHUS OCELLATUS	4	4	3.5	3.2- 3.8	SL	10	9	6.0	2.9- 9.2	SL		4.5
CITHARICHTHYS ARCTIFRONS						1	1	4.1		SL		0.3
ETICPUS MICROSTOMUS						1	1	3.8		SL		0.3
SYACTUM PAPILLOSUM	15	14	3.7	2.6- 4.9	SL	7	7	4.4	3.3- 5.7	SL		6.8
SYMFURUS SP.	2	2	4.2	4.2- 4.2	SL	1	1	3.0		SL		0.9
ADDITIONAL LARVAE CAUGHT	SYNOdontIDAE PARALEPIDIDAE LOPHIIFORMES CPHIDIICAE CARANGICAE CAPROICAE SERRANICAE PRIACANTHICAE APOGONICAE CARANGICAE CORDYPHAENTICAE SPARIDAE LABRIDAE OR SCARIDAE CALLIONYMICAE GOBIIDAE SCORPAENICAE UNIDENTIFIED					OPHICHTHIDAE CYCLOTHONE SP. SYNOdontIDAE PARALEPIDIDAE LOPHIIFORMES GRAMMISTICAE APOGONIDAE MALACANTHUS SP. CARANGICAE POMACENTRICAE LABRIDAE OR SCARIDAE GOBIIDAE ACANTHURICAE STROMATEICAE SCORPAENICAE TRIGLICAE UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE D6611 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.		
B 2 14 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	1	1	10.5	TL						0.3	
UROPHYCIS CHUSS	21	7	5.1	2.9- 6.8 NL	0					6.4	
MERLUCCIIUS BILINEARIS	13	9	2.8	2.4- 3.1 NL						3.9	C. C
HIPPOGLOSSINA OBLONGUS	5	5	4.7	3.8- 5.7 SL						1.5	
SCOPHTHALMUS AQUOSUS	2	2	4.0	2.7- 5.3 SL						0.6	
ADDITIONAL LARVAE CAUGHT LABRIDAE OR SCARIDAE											
B 3 16 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	11	11	12.1	10.5- 14.3 TL	0	2	2	15.1	13.8- 16.5 TL		4.0
ENCHELYOPIUS CIMBRIUS						19	18	3.3	1.6- 5.3 SL	0	6.3
UROPHYCIS SP.	1317	25	2.4	1.0- 4.5 NL		303	21	2.7	1.8- 4.8 NL		456.1
MERLUCCIIUS BILINEARIS	38	32	4.2	2.3- 9.4 NL	36	567	558	5.6	2.4- 17.3 NL	19	200.4
TAUTOGOLABRUS ADSPERSUS	4	4	6.9	4.3- 9.1 TL							1.3
PEPILUS TRIACANTHUS	1	1	8.0	SL		1	1	3.8	SL		0.6
CITHARICHTHYS ARCTIFRONS	8	8	7.2	4.2- 11.1 SL		129	25	6.2	3.5- 8.4 SL		45.4
HIPPOGLOSSINA OBLONGUS	16	15	4.5	3.4- 5.7 SL		3	3	4.2	2.7- 5.3 SL		5.8
SCOPHTHALMUS AQUOSUS						1	1	4.0	SL		0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED						OPHIIDIIDAE UNIDENTIFIED					
B 4 14 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	5	5	9.3	7.9- 10.7 TL		3	3	11.0	9.8- 11.6 TL		2.5
ENCHELYOPIUS CIMBRIUS					1	46	44	3.7	1.7- 6.5 SL	0	15.3
UROPHYCIS SP.	4	3	2.0	1.4- 2.4 NL		271	19	3.0	2.1- 4.1 NL		91.5
UROPHYCIS CHUSS	504	34	3.1	1.3- 5.3 NL							168.0
MERLUCCIIUS BILINEARIS	12	12	3.5	2.3- 5.8 NL	9	179	179	4.8	1.8- 13.0 NL	3	63.3
TAUTOGOLABRUS ADSPERSUS	1	1	7.0	TL							0.3
PEPILUS TRIACANTHUS	3	3	2.6	2.5- 2.8 SL							1.0
CITHARICHTHYS ARCTIFRONS	42	40	5.5	2.8- 12.5 SL		111	25	6.0	3.5- 9.8 SL		49.6
HIPPOGLOSSINA OBLONGUS	53	51	4.0	2.7- 5.4 SL		10	10	4.5	3.4- 5.9 SL		19.2
GLYPTOCEPHALUS CYMBOLOSSUS						2	2	12.1	5.0- 19.2 SL		0.7
LIMANDA FERRUGINEA						1	1	6.3	SL		0.3
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED						OPHIIDIIDAE UNIDENTIFIED					
B 5 14 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISODONOPHIS CRUENTIFER	1	1	33.4	TL		1	1	41.5	TL		0.6
LOPHIUS AMERICANUS					0	4	4	6.5	4.5- 8.9 TL		1.3
ENCHELYOPIUS CIMBRIUS						155	41	2.5	1.5- 4.9 SL	6	51.7
UROPHYCIS SP.	831	22	2.9	2.0- 4.5 NL		966	30	2.6	1.2- 4.2 NL		511.2
MERLUCCIIUS BILINEARIS	2	2	5.6	4.8- 6.4 NL	22	103	96	4.1	2.0- 11.0 NL	23	34.9
TAUTOGOLABRUS ADSPERSUS						1	1	3.4	TL		0.3
PEPILUS TRIACANTHUS	1	1	5.0	SL							0.3
CITHARICHTHYS ARCTIFRONS	63	25	5.5	4.2- 10.1 SL		183	25	5.7	4.2- 12.1 SL		79.9
HIPPOGLOSSINA OBLONGUS	15	13	4.4	3.4- 5.0 SL		47	45	4.6	3.2- 6.5 SL		20.2
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE STROMATEIDAE UNIDENTIFIED						OPHIIDIIDAE STROMATEIDAE UNIDENTIFIED					
B 6 14 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISODONOPHIS CRUENTIFER						1	1	41.5	TL		0.3
LOPHIUS AMERICANUS	6	6	5.7	4.3- 6.6 TL		6	6	7.8	5.3- 13.3 TL		3.8
ENCHELYOPIUS CIMBRIUS	3	3	2.3	1.6- 3.0 SL	2	24	23	3.6	2.5- 6.1 SL	9	8.9
UROPHYCIS SP.	122	17	4.1	2.5- 5.8 NL		136	32	3.6	2.2- 5.2 NL		61.9
UROPHYCIS CHUSS						9	9	4.4	2.3- 6.9 NL		3.0
MERLUCCIIUS BILINEARIS	12	4	7.0	4.9- 8.8 NL	4	39	38	6.6	5.1- 7.8 NL	0	16.6
CITHARICHTHYS ARCTIFRONS	3	3	5.9	3.6- 7.8 SL		29	29	8.1	4.6- 11.7 SL		10.6
HIPPOGLOSSINA OBLONGUS	2	2	5.8	5.7- 5.8 SL		7	7	6.0	4.6- 7.5 SL		2.9
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE						PISODONOPHIS CRUENTIFER OPHIDIIDAE					
B 7 14 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LOPHIUS AMERICANUS	2	2	5.5	5.1- 6.0 TL		1	1	3.6	TL		0.9
UROPHYCIS SP.	71	18	4.5	3.2- 5.9 NL		64	17	5.0	3.7- 10.1 NL		42.6
MERLUCCIIUS BILINEARIS	10	10	11.6	6.7- 40.0 NL	0	53	51	12.1	6.5- 41.1 NL	0	20.7
CITHARICHTHYS ARCTIFRONS	1	1	7.1	SL		11	11	8.0	5.5- 15.2 SL		4.0
ADDITIONAL LARVAE CAUGHT						SYNDONOTIDAE OPHIDIIDAE					
C 1 17 09	SAMPLING DEPTH 0-9M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOLE	4	4	13.3	6.1- 19.0 TL							0.7
UROPHYCIS SP.	35	14	1.7	1.2- 3.0 NL							6.4
MERLUCCIIUS BILINEARIS	4	4	3.0	2.7- 3.7 NL	0						0.7
PEPILUS TRIACANTHUS	1	1	2.6	SL							0.2
PFLICHTUS CARLINUS	16	16	2.6	1.9- 3.5 SL							2.9
CITHARICHTHYS ARCTIFRONS	1	1	5.4	SL							0.2
ETREPIUS MICROSTOMUS	1	1	9.1	SL							0.2
SCOPHTHALMUS AQUOSUS	4	4	2.9	2.2- 3.3 SL							0.7
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											

TABLE 3. (Continued)

120

CRUISE DATE D6611 1966 STA. 0 M SPECIES ANALYZED	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. LARVAE	PER 10M EGGS
	NUMBER	TOTAL MEAS.	MEAN	RANGE	MEAS.		NUMBER	TOTAL MEAS.	MEAN	RANGE	MEAS.		
C 2 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENGRAULIS EURYSTOIE	5	5	6.3	3.0-18.1	TL							1.5	
UROPHYCIS SP.	34	7	2.3	1.2- 4.5	NL							10.3	
MERLUCCIIUS BILINEARIS	5	3	2.7	2.6- 2.8	NL	0						1.5	0.0
TAUTOGALANIS	4	4	3.0	2.6- 3.7	TL							1.2	
PRIONOTUS CAROLINUS	2	2	3.9	3.4- 4.4	SL							0.6	
CITHARICHTHYS ARCTIFRONS	7	7	6.3	5.3- 7.2	SL							2.1	
PARALICHTHYS DENTATUS	1					0						0.3	0.0
HIPPOGLOSSINA OBLONGUS	3	3	2.9	2.7- 3.2	SL							0.9	
SCOPHTHALMUS AQUOSUS	1	1	2.7		SL							0.3	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
C 3 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENGRAULIS EURYSTOIE	2	2	12.0	8.6-15.4	TL		1	1	6.7		TL	0.8	
ENCHELYOPLUS CIMBRIUS						0	1	1	5.7		SL	0.2	C.C
UROPHYCIS SP.	87	24	4.2	2.0- 6.2	NL		57	22	3.0	1.5- 7.0	NL	35.9	
MERLUCCIIUS BILINEARIS						56						0.0	18.1
TAUTOGALANIS ADSPERSUS	1	1	5.2		TL							0.3	
PEPRILUS TRIACANTHUS	1	1	3.4		SL							0.3	
PRIONOTUS CAROLINUS	2	2	3.5	3.5- 3.5	SL		4	4	3.8	3.5- 4.3	SL	1.3	
CITHARICHTHYS ARCTIFRONS	14	14	7.7	5.7-13.7	SL		4	4	10.1	7.4-11.7	SL	4.9	
ETROPUS MICROSTOMUS							2	2	6.7	5.7-11.7	SL	0.3	
PARALICHTHYS DENTATUS						0	4	4	3.3	3.2- 3.4	SL	0.6	0.0
HIPPOGLOSSINA OBLONGUS							1	1	3.3		SL	0.2	
SCOPHTHALMUS AQUOSUS	1	1	2.8		SL							0.3	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
C 4 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
PISCODNOPHIS CRUENTIFER							1	1	59.0		TL	0.3	
ENCHELYOPLUS CIMBRIUS						0	23	23	4.7	2.9- 7.2	SL	7.7	0.0
UROPHYCIS SP.	622	34	3.3	1.7- 5.1	NL		929	32	3.6	1.6- 6.8	NL	496.2	
MERLUCCIIUS BILINEARIS	1	1	4.4		NL	8	312	300	4.2	2.3-10.3	NL	104.3	3.7
PEPRILUS TRIACANTHUS	44	44	2.9	2.0- 3.8	SL		2	2	2.9	2.4- 3.4	SL	14.7	
PRIONOTUS CAROLINUS							2	2	3.0	2.7- 3.4	SL	0.7	
CITHARICHTHYS ARCTIFRONS	61	25	6.1	3.7-11.5	SL		398	25	5.9	3.7- 9.3	SL	151.0	
PARALICHTHYS DENTATUS						0	1	1	4.5		SL	0.3	0.0
HIPPOGLOSSINA OBLONGUS	11	11	4.4	3.2- 7.0	SL		4	4	5.5	4.5- 6.7	SL	4.6	
SCOPHTHALMUS AQUOSUS	11	2	4.0	3.7- 4.2	SL							3.7	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE STROMATEIDAE UNIDENTIFIED													
C 5 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
ENGRAULIS EURYSTOIE	2	2	12.8	12.1-13.5	TL		1	1	12.5		TL	0.9	
ENCHELYOPLUS CIMBRIUS						0	20	20	5.1	3.7- 7.8	SL	6.7	C.C
UROPHYCIS SP.	1315	40	3.3	1.9- 5.8	NL		125	28	4.0	2.1- 7.5	NL	438.3	
MERLUCCIIUS BILINEARIS	8	7	3.0	2.5- 4.5	NL	16	157	157	6.9	2.6-11.5	NL	54.7	5.3
PEPRILUS TRIACANTHUS	6	6	5.5	2.9-17.8	SL							2.0	
CITHARICHTHYS ARCTIFRONS	100	25	6.7	4.5-13.2	SL		57	25	7.0	4.3-11.7	SL	62.3	
HIPPOGLOSSINA OBLONGUS	39	37	4.5	2.5- 6.0	SL		7	7	5.6	4.3- 7.0	SL	14.0	
SCOPHTHALMUS AQUOSUS	1	1	3.2		SL							0.3	
GLYPTOCEPHALUS CYNOGLOSSUS							2	2	21.5	18.7-24.2	SL	0.7	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE STROMATEIDAE UNIDENTIFIED													
C 6 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
LEPTIUS AMERICANUS							4	4	6.8	4.1- 8.2	TL	1.3	
ENCHELYOPLUS CIMBRIUS						0	58	26	4.3	2.2- 7.5	SL	19.3	0.3
UROPHYCIS SP.	1625	39	3.6	2.0- 5.5	NL		961	30	4.4	2.6- 7.5	NL	117.8	
MERLUCCIIUS BILINEARIS						0	208	207	5.6	2.1-19.5	NL	69.3	7.7
PEPRILUS TRIACANTHUS	1	1	3.0		SL							0.3	
CITHARICHTHYS ARCTIFRONS	170	25	5.4	3.1-13.6	SL		639	25	5.5	3.2-14.2	SL	244.0	
HIPPOGLOSSINA OBLONGUS	23	22	5.1	2.9- 6.9	SL		8	8	5.4	4.1- 6.2	SL	9.6	
LIMANDA FERRUGINEA							2	2	13.7	12.7-14.7	SL	0.7	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE STROMATEIDAE UNIDENTIFIED													
C 7 17 09	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
ENGRAULIS EURYSTOIE	2	2	12.9	12.5-13.3	TL		1	1	14.1		TL	0.9	
LEPTIUS AMERICANUS	4	4	8.4	3.9-13.9	TL		10	10	6.1	3.7- 9.9	TL	4.5	
ENCHELYOPLUS CIMBRIUS	1	1	2.5		SL	0	28	27	3.4	1.6- 5.6	SL	9.6	0.0
UROPHYCIS SP.	965	26	2.9	1.2- 4.9	NL		687	28	3.9	2.2- 6.8	NL	518.4	
MERLUCCIIUS BILINEARIS	13	12	12.3	3.1-22.5	NL	0	351	345	8.5	3.1-32.8	NL	120.9	0.0
ALIXIS SP.	1	1	13.5		SL							0.3	
PEPRILUS TRIACANTHUS	1	1	8.2		SL							0.3	
BETHUS MCELLEATUS	1	1	15.4		SL							0.3	
CITHARICHTHYS ARCTIFRONS	13	12	6.9	2.2-13.6	SL		137	25	7.9	2.6-14.7	SL	49.6	
MONOLENE SESSILICAUTA	1	1	19.3		SL							0.3	
HIPPOGLOSSINA OBLONGUS	33	33	5.1	2.7- 7.5	SL		22	22	4.7	2.7- 6.4	SL	17.2	
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	18.2		SL	0.3	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													

TABLE 3. (continued)

CRUISE DATE C6611 1966 STA. 04 SPECIES ANALYZED. C B 17 C9	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.		NUMBER	MEAN LENGTHS (MM)	RANGE	MEAS.		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
DISCOMNOPSIS CRUENTIFER	1	1	29.9	TL						0.3	
CFRATOSCOPELUS MAFFENSI	1	1	10.7	SL						0.3	
DIAPHUS SP.						4	4	8.9 7.9- 9.7	SL		1.3
LEPHEUS AMERICANUS	1	1	6.5	TL						0.3	
UROPHYCIS SP.	23	9	3.6	2.0- 5.1	NL	137	28	4.9 3.8- 6.0	NL	0	52.6
MERLUCCIIUS BILINEARIS	2	2	8.2	7.9- 8.6	NL	2	2	9.7 9.4-10.0	NL	0	1.3
PEPRILUS TRIACANTHUS	1	1	35.0		SL						0.3
CITHARICHTHYS ARCTIFRONS	1	1	10.0		SL	11	10	7.9 5.3-12.3	SL		4.0
HIPPOGLOSSINA OBLONGUS						4	4	5.6 4.2- 6.6	SL		1.3
SCOPHTHALMUS AQUOSUS						1	1	2.5	SL		0.3
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE CALLIONYMICAE UNIDENTIFIED					OPHIDIIDAE GOBIIDAE					
.....											
C 1 18 09	SAMPLING DEPTH C- 6M										
ENGAULIS EURYSTOIE	42	13	4.9	1.7- 8.6	TL						7.5
ENCHELYOPUS CIMBRIUS	1	1	1.7		SL					0	0.1
UROPHYCIS SP.	29	11	2.3	1.6- 3.7	NL						3.5
CENTROPRIETIS STRIATA	1	1	5.4		SL						0.1
PEPRILUS TRIACANTHUS	3	3	4.0	3.0- 5.3	SL						0.4
PRICNOTUS CAROLINUS	111	21	2.8	2.2- 3.8	SL						13.5
CITHARICHTHYS ARCTIFRONS	1	1	5.2		SL						0.1
HIPPOGLOSSINA OBLONGUS	5	4	3.4	3.1- 3.7	SL						0.6
SCOPHTHALMUS AQUOSUS	9	9	2.7	2.5- 3.0	SL						1.1
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE UNIDENTIFIED										
.....											
C 2 18 09	SAMPLING DEPTH C- 6M										
ENGAULIS EURYSTOIE	47	47	4.2	1.7- 6.5	TL						5.7
UROPHYCIS SP.	14	10	2.3	1.4- 2.8	NL						1.7
MERLUCCIIUS BILINEARIS	1	1	3.6		NL					0	0.1
PRICNOTUS CAROLINUS	18	18	3.8	2.7- 5.0	SL						2.2
CITHARICHTHYS ARCTIFRONS	1	1	5.1		SL						0.1
HIPPOGLOSSINA OBLONGUS	2	2	2.6	2.4- 2.7	SL						0.2
SCOPHTHALMUS AQUOSUS	7	7	2.9	2.2- 3.7	SL						0.8
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....											
C 3 18 09	SAMPLING DEPTH C-15M										
ENGAULIS EURYSTOIE	10	9	4.9	2.2- 7.2	TL						3.0
UROPHYCIS SP.	137	32	2.0	1.2- 4.0	NL						41.5
MERLUCCIIUS BILINEARIS	7	5	2.8	2.2- 4.0	NL					0	2.1
PCMATOMUS SALATRIX	1	1	4.0		SL						0.3
PEPRILUS TRIACANTHUS	2	2	3.7	3.6- 3.9	SL						0.6
PRICNOTUS CAROLINUS	6	6	2.3	1.4- 2.9	SL						1.8
CITHARICHTHYS ARCTIFRONS	2	2	2.8	2.7- 2.9	SL						0.6
PARALICHTHYS CENTATUS	3	3	3.5	3.3- 3.6	SL					0	0.9
HIPPOGLOSSINA OBLONGUS	4	2	3.5	3.2- 3.8	SL						1.2
SCOPHTHALMUS AQUOSUS	4	4	2.7	2.5- 2.9	SL						1.2
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE STROMATEIDAE UNIDENTIFIED										
.....											
C 4 19 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
ENGAULIS EURYSTOIE	30	25	6.2	2.9-22.5	TL	1	1	12.1	TL		9.7
ENCHELYOPUS CIMBRIUS	2	2	2.3	2.2- 2.3	SL	1	1	3.3	SL	0	0.8
UROPHYCIS SP.	99	23	3.3	2.1- 6.0	NL	32	18	2.3 1.5- 3.2	NL	0	25.6
MERLUCCIIUS BILINEARIS	12	11	3.4	2.6- 4.2	NL	11	11	2.8 2.2- 4.2	NL	0	5.5
PEPRILUS TRIACANTHUS	6	6	5.0	3.4-11.3	SL	4	4	3.2 2.1- 3.9	SL		2.5
PRICNOTUS CAROLINUS	17	17	2.9	1.9- 4.1	SL	4	4	3.0 2.5- 4.0	SL		5.9
CITHARICHTHYS ARCTIFRONS	15	13	3.5	3.1- 4.8	SL	11	8	3.3 3.2- 3.9	SL		6.4
PARALICHTHYS CENTATUS	1	1	3.4		SL	2	2	3.2 2.9- 3.6	SL	0	0.6
HIPPOGLOSSINA OBLONGUS	30	27	3.6	2.5- 7.6	SL	1	1	2.9	SL		9.7
SCOPHTHALMUS AQUOSUS	4	4	3.7	2.6- 5.4	SL	5	5	2.9 2.7- 3.3	SL		2.0
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED					

TABLE 3. (continued)

CRUISE DATE D6611 1966 STA. 04 T 5	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10 ² LARVAE	2 EGGS	
		NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE			
15 18 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	ENGRAULIS EURYSTOLE	14	14	8.2	5.7-16.3 TL						4.7		
	ENCHEL YOPUS CIMBRIUS	4	2	2.5	2.3- 2.7 SL	6	14	14	3.8	2.5- 5.7 SL	0	5.9	2.0
	UROPHYCIS SP.	704	33	3.5	1.8- 6.4 NL		179	31	5.0	1.9-10.7 NL		270.8	
	MERLUCCIOUS BILINEARIS	25	22	3.8	2.6- 5.9 NL	0	136	130	4.9	2.6-11.2 NL	0	12.8	C.C
	PENATOMUS SALTATRIX	1	1	6.7	SL							0.3	
	TAUTOGOLABRUS ADSPERSUS	2	2	7.2	5.9- 8.5 TL		4	4	9.0	8.6- 5.4 TL		1.9	
	PEPRILUS TRIACANTHUS	23	22	4.6	2.0-12.5 SL		2	2	4.1	3.1- 5.1 SL		7.7	
	PRICNOTUS CARLINUS	28	28	4.1	2.5- 7.9 SL		3	3	4.3	3.7- 5.3 SL		9.4	
	CITHARICHTHYS ARCTIFRONS	10	10	6.6	3.4-11.2 SL		16	16	6.0	3.7-10.4 SL		8.3	
	ETREPOUS MICROSTOMUS	9	8	6.2	4.6- 9.2 SL		2	2	6.4	5.6- 7.1 SL		3.4	
	PARALICHTHYS DENTATUS	6	6	4.3	3.2- 5.1 SL	0					0	2.0	0.0
	HIPPUGLOSSINA OBLONGUS	49	45	4.8	3.2- 6.8 SL		18	18	5.9	3.5- 9.8 SL		20.7	
	SCOPHTHALMUS AQUOSUS	10	9	3.8	3.4- 4.2 SL		1	1	3.5	SL		3.3	
	ADDITIONAL LARVAE CAUGHT	CARANGIDAE											
		STROMATEIDAE											
		UNIDENTIFIED											
.....													
0 6 18 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	PISODONOPHIS CRUENTIFER	1	1	53.4	TL							0.3	
	ENGRAULIS EURYSTOLE	9	9	13.2	10.8-16.5 TL		1	1	11.6	TL		3.0	
	LOPHIUS AMERICANUS						11	11	5.7	4.7- 5.4 TL		3.7	
	ENCHEL YOPUS CIMBRIUS	4	3	4.7	2.7- 8.5 SL	0	11	8	5.0	2.3- 8.9 SL	0	4.9	0.0
	UROPHYCIS SP.	759	30	4.4	2.1- 7.1 NL		191	30	4.6	2.8-11.2 NL		251.3	
	MERLUCCIOUS BILINEARIS	22	22	6.0	4.1- 8.8 NL	0	372	363	5.5	3.1-12.2 NL	0	120.6	C.C
	PEPRILUS TRIACANTHUS	5	5	2.9	2.8- 3.0 SL		2	2	2.9	2.5- 3.3 SL		2.2	
	CITHARICHTHYS ARCTIFRONS	151	25	5.9	4.2- 9.4 SL		96	25	6.6	3.2-11.9 SL		77.3	
	HIPPUGLOSSINA OBLONGUS	18	18	4.6	3.1- 6.8 SL		11	11	5.3	4.4- 5.8 SL		9.1	
	GLYPTOCEPHALUS CYNOGLOSSUS						1	1	32.1	SL		0.3	
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					OPHICHTHICAE						
		UNIDENTIFIED					OPHIDIIDAE						
							LABRIDAE OR SCARIDAE						
.....													
0 7 18 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	ENGRAULIS EURYSTOLE	1	1	19.6	TL							0.3	
	LOPHIUS AMERICANUS						5	5	6.7	4.6- 8.1 TL		17.7	
	ENCHEL YOPUS CIMBRIUS	1	1	2.6	SL	0	15	15	3.6	2.4- 5.8 SL	1	5.3	0.3
	UROPHYCIS SP.	470	18	3.8	1.5- 4.9 NL		71	15	4.9	2.2- 8.0 NL		164.7	
	MERLUCCIOUS BILINEARIS	1	1	8.8	NL	0	61	61	7.0	3.5-10.2 NL	0	20.6	0.0
	PEPRILUS TRIACANTHUS	2	2	3.1	2.7- 3.5 SL							0.7	
	CITHARICHTHYS ARCTIFRONS	86	25	5.3	2.8- 8.2 SL		77	25	10.3	4.8-14.0 SL		51.5	
	HIPPUGLOSSINA OBLONGUS	4	3	3.5	2.9- 4.5 SL		16	16	5.3	2.9- 6.3 SL		6.5	
	GLYPTOCEPHALUS CYNOGLOSSUS						1	1	15.4	SL		0.3	
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					OPHIDIIDAE						
		UNIDENTIFIED											
.....													
0 8 18 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	CERATOSCOPELUS MAJERENSIS	2	2	8.9	8.8- 9.0 SL		7	7	10.9	8.8-13.8 SL		2.9	
	LOPHIUS AMERICANUS						4	4	5.7	4.2- 8.5 TL		1.3	
	ENCHEL YOPUS CIMBRIUS					0	8	8	2.6	2.7- 7.0 SL	0	2.7	0.0
	UROPHYCIS SP.	87	21	5.1	2.9- 9.5 NL		163	31	4.8	2.5- 9.9 NL		80.4	
	MERLUCCIOUS BILINEARIS					0	56	55	5.1	6.5-12.7 NL	0	18.7	0.0
	PEPRILUS TRIACANTHUS	1	1	26.5	SL							0.3	
	CITHARICHTHYS ARCTIFRONS	27	27	7.8	3.0-14.2 SL		18	17	7.5	3.7-13.3 SL		14.1	
	HIPPUGLOSSINA OBLONGUS	4	4	4.7	3.2- 5.6 SL		11	11	5.8	5.0- 6.2 SL		4.9	
	SCOPHTHALMUS AQUOSUS	2	2	2.8	2.7- 2.9 SL							0.7	
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					PARALEPIDIDAE						
		GOBIIDAE					OPHICHTHICAE						
		TETRAODONTIDAE					GOBIIDAE						

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.		TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.		
A 1 15 10	SAMPLING DEPTH C-6M					SAMPLING DEPTH 18-24M					
UROPHYCIS SP.	1	1	3.6	NL						0.1	
MERLUCCIIUS BILINEARIS	3	2	3.4	3.1-3.7 NL	0					0.4	0.0
PARALICHTHYS DENTATUS	2	2	4.6	3.0-6.2 SL	4					0.2	0.5
SCOPHTHALMUS AQUOSUS	1	1	3.3	SL						0.1	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
A 2 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
BREVDORTIA TYRANNUS	1	1	8.0	TL		4	4	4.4	4.1-4.7 TL		1.0
ENCHELIOPLUS CIMBRIUS	1	1	3.8	SL	0	6	6	3.4	2.2-3.9 SL	0	1.3
UROPHYCIS SP.						2	2	2.4	2.4-2.5 NL		0.3
MERLUCCIIUS BILINEARIS	16	15	4.2	3.2-5.8 NL	0	31	30	4.1	2.8-5.3 NL	0	9.9
PARALICHTHYS DENTATUS	2	2	5.2	4.7-5.7 SL	6	25	24	4.0	2.9-7.7 SL	6	4.7
SCOPHTHALMUS AQUOSUS	1	1	4.4	SL							0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
A 3 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENCHELIOPLUS CIMBRIUS					0	6	6	3.5	2.7-4.1 SL	0	2.0
UROPHYCIS SP.	1	1	12.5	NL							0.3
MERLUCCIIUS BILINEARIS	8	8	4.7	2.8-6.7 NL	0	37	33	4.9	2.6-26.5 NL	1	14.7
PRIONOTUS CARLINUS						1	1	3.1	SL		0.3
PARALICHTHYS DENTATUS	3	3	4.8	4.2-5.4 SL	0	14	14	3.7	2.8-5.5 SL	3	5.6
SCOPHTHALMUS AQUOSUS	1	1	2.8	SL		1	1	2.6	SL		0.6
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
A 4 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVDORTIA TYRANNUS	1	1	9.3	TL							0.3
ENCHELIOPLUS CIMBRIUS	14	13	3.4	2.5-4.1 SL	1						4.7
MERLUCCIIUS BILINEARIS	105	102	3.5	2.3-6.9 NL	31	216	207	3.5	2.3-5.7 NL	63	103.5
PARALICHTHYS DENTATUS	34	34	4.0	2.7-5.4 SL	1	23	23	4.1	3.5-5.6 SL	0	17.9
SCOPHTHALMUS AQUOSUS	12	10	3.3	2.2-4.3 SL		13	13	3.2	2.8-4.2 SL		7.9
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
A 5 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENCHELIOPLUS CIMBRIUS					4					3	0.0
UROPHYCIS SP.	79	11	3.5	2.2-4.6 NL		27	20	3.0	2.0-4.5 NL		22.7
MERLUCCIIUS BILINEARIS	6	6	3.1	2.7-3.7 NL	12	73	67	3.0	2.0-4.6 NL	275	26.1
CITHARICHTHYS ARCTIFRONS	1	1	5.7	SL		3	3	4.5	3.4-5.1 SL		1.3
PARALICHTHYS DENTATUS	49	46	4.6	3.6-7.5 SL	0	59	56	4.2	2.9-8.2 SL	0	34.4
SCOPHTHALMUS AQUOSUS	16	16	4.3	3.3-5.3 SL		16	16	4.3	3.1-5.6 SL		10.1
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
BLENNEIDAE UNIDENTIFIED											
A 6 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LOPHTIUS AMERICANUS	1	1	7.6	TL		2	2	6.8	6.6-7.1 TL		1.0
ENCHELIOPLUS CIMBRIUS					0					5	0.0
UROPHYCIS SP.	34	25	4.4	2.4-6.6 NL		26	21	4.5	2.4-8.2 NL		18.9
MERLUCCIIUS BILINEARIS	8	8	5.5	3.1-11.5 NL	1	191	177	4.7	1.8-12.8 NL	2	66.1
CITHARICHTHYS ARCTIFRONS						3	3	7.2	4.9-10.0 SL		1.0
PARALICHTHYS DENTATUS	3	3	5.5	3.2-6.8 SL	0	5	5	5.0	3.9-5.9 SL	0	2.6
SCOPHTHALMUS AQUOSUS	4	4	6.0	4.2-9.5 SL		4	4	3.9	3.1-4.7 SL		2.5
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
A 7 15 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
LOPHTIUS AMERICANUS						1	1	8.3	TL		0.3
UROPHYCIS SP.	52	10	10.6	6.8-16.0 NL		39	9	10.2	6.1-16.5 NL		28.6
MERLUCCIIUS BILINEARIS	2	2	9.9	3.0-16.8 NL	0	40	40	12.5	3.7-21.5 NL	0	13.9
CITHARICHTHYS ARCTIFRONS						2	2	13.8	13.3-14.3 SL		0.7
PARALICHTHYS DENTATUS	1	1	3.5	SL	0					0	0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
OPHIIDIIDAE GOBIIIDAE											
B 1 14 10	SAMPLING DEPTH C-6M					SAMPLING DEPTH 18-24M					
ANCHOVA MITCHELLI	8	8	35.6	29.1-45.1 TL							1.0
MERLUCCIIUS BILINEARIS					2						0.0
PARALICHTHYS DENTATUS	2	2	4.1	3.5-4.7 SL	0						0.2
SCOPHTHALMUS AQUOSUS	4	4	3.9	3.7-4.1 SL							0.5
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
B 2 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
BREVDORTIA TYRANNUS	15	15	13.7	8.9-18.7 TL		9	7	5.3	3.6-8.2 TL		6.1
ENCHELIOPLUS CIMBRIUS					0	4	4	3.5	3.5-4.3 SL	0	0.6
UROPHYCIS SP.	1	1	5.0	NL							0.3
MERLUCCIIUS BILINEARIS	1	1	2.8	NL	6	4	4	5.5	3.2-6.8 NL	14	1.0
PRIONOTUS CARLINUS						1	1	5.1	SL		0.2
CITHARICHTHYS ARCTIFRONS	1	1	16.6	SL		3	3	16.4	15.2-18.0 SL		0.8
PARALICHTHYS DENTATUS	4	4	5.9	4.2-7.3 SL	0	25	25	4.0	3.1-7.3 SL	3	5.3
SCOPHTHALMUS AQUOSUS	6	6	3.7	2.7-5.5 SL		6	6	2.9	2.5-3.4 SL		2.8
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE D6612 1966 STA. 04 SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
B 3 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVOORTIA TYRANNUS	24	22	11.7	4.4-18.7 TL		31	27	5.9	4.0-11.1 TL		17.5
ANCHOA HEPSETIS	1	1	23.7	TL							0.3
ENCHEL YOPUS CIMBRIUS	1	1	3.9	SL	0	13	13	4.0	2.7- 5.0 SL	0	4.6
UROPHYCIS SP.	3	3	20.1	16.0-23.6 NL		2	2	15.7	16.5-23.0 NL		1.6
MERLUCCIIUS BILINEARIS	1	1	3.3	NL	10	19	19	4.4	2.2- 6.8 NL	19	6.6
PRICNOTUS CAROLINUS	10	10	4.3	3.0- 6.1 SL		4	4	4.7	3.0- 6.1 SL		4.3
CITHARICHTHYS ARCTIFRONS						1	1	15.2	SL		0.3
ETREPIUS MICROSTOMUS						2	2	4.8	4.3- 5.3 SL		0.7
PARALICHTHYS DENTATUS	2	2	8.0	7.8- 8.3 SL	0	71	69	4.0	2.9- 8.8 SL	6	24.3
SCOPHTHALMUS AQUOSUS	6	6	3.9	3.0- 7.5 SL		9	8	4.2	2.6- 6.8 SL		4.8
ADDITIONAL LARVAE CAUGHT						OPHIIDIIDAE					
B 4 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVOORTIA TYRANNUS	8	8	9.7	7.1-11.3 TL		2	2	5.8	9.7-10.0 TL		3.1
ENGRaulis EURYSTOLE						4	4	10.8	8.1-13.1 TL		1.3
LCPHIUS AMERICANUS						5	5	19.4	15.3-25.0 TL		1.7
ENCHEL YOPUS CIMBRIUS					0	42	40	4.5	2.3- 6.5 SL	1	14.0
UROPHYCIS SP.	25	16	5.3	3.2- 7.9 NL		99	25	8.5	3.0-26.1 NL		40.5
MERLUCCIIUS BILINEARIS	6	6	5.7	4.2- 6.8 NL	6	145	142	6.4	2.5-16.5 NL	9	50.1
PEPILUS TRIACANTHUS						1	1	5.2	SL		0.3
PRICNOTUS CAROLINUS						1	1	3.0	SL		0.3
CITHARICHTHYS ARCTIFRONS						7	7	12.3	6.4-17.2 SL		2.3
PARALICHTHYS DENTATUS	2	2	6.0	5.6- 6.5 SL	0	33	31	5.3	3.7- 7.5 SL	0	11.6
HIPPOGLOSSINA OBLONGUS						5	5	5.4	3.7- 7.4 SL		1.7
SCOPHTHALMUS AQUOSUS	4	4	4.0	3.0- 5.2 SL		10	9	4.7	2.7- 6.6 SL		4.5
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	20.1	SL		0.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED						UNIDENTIFIED					
B 5 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVOORTIA TYRANNUS	9	9	13.1	9.3-16.2 TL		4	3	8.8	6.9- 9.7 TL		4.0
LCPHIUS AMERICANUS	1	1	21.6	TL		2	2	14.2	12.5-16.0 TL		1.0
ENCHEL YOPUS CIMBRIUS	3	3	7.5	5.1-10.3 SL	3	10	10	4.9	2.6- 7.2 SL	0	4.2
UROPHYCIS SP.	72	13	7.9	4.0-19.5 NL		23	17	4.8	2.8-14.5 NL		29.3
MERLUCCIIUS BILINEARIS	24	23	9.6	4.1-14.1 NL	2	204	200	7.5	2.7-13.6 NL	1	75.2
PEPILUS TRIACANTHUS	1	1	9.4	SL							0.3
PRICNOTUS CAROLINUS						2	2	3.4	3.2- 3.7 SL		0.7
CITHARICHTHYS ARCTIFRONS	4	4	10.8	4.2-13.8 SL		19	19	9.8	4.5-14.3 SL		7.5
ETREPIUS MICROSTOMUS						1	1	3.9	SL		0.3
PARALICHTHYS DENTATUS	1	1	3.3	SL	0	11	11	4.6	3.4- 6.8 SL	0	4.0
HIPPOGLOSSINA OBLONGUS						4	4	4.7	3.2- 6.4 SL		1.3
SCOPHTHALMUS AQUOSUS	1	1	3.3	SL		9	9	4.1	3.1- 5.8 SL		3.3
ADDITIONAL LARVAE CAUGHT						Gobiidae					
B 6 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVOORTIA TYRANNUS	1	1	9.6	TL		2	2	12.2	6.6-17.9 TL		0.3
ANCHOA HEPSETIS						7	7	11.8	4.4-21.8 TL		0.7
LCPHIUS AMERICANUS	1	1	24.7	TL		7	7	11.8	4.4-21.8 TL		2.6
ENCHEL YOPUS CIMBRIUS	6	6	5.2	2.5- 7.0 SL	0	25	25	4.7	1.7- 8.0 SL	0	10.1
UROPHYCIS SP.	177	23	8.6	2.9-19.4 NL		136	24	6.6	3.0-14.6 NL		58.4
MERLUCCIIUS BILINEARIS	31	31	10.2	4.3-16.5 NL	0	277	277	10.8	2.2-21.0 NL	0	101.6
PRICNOTUS CAROLINUS	2	2	4.1	4.0- 4.3 SL		2	2	4.1	3.6- 4.7 SL		1.3
CITHARICHTHYS ARCTIFRONS	3	2	11.2	6.6-15.7 SL		52	25	8.8	4.2-14.6 SL		18.2
PARALICHTHYS DENTATUS	1	1	3.8	SL	0	9	9	4.8	3.8- 7.8 SL	0	3.3
HIPPOGLOSSINA OBLONGUS	4	4	6.9	3.5-10.2 SL		8	8	5.5	3.7- 7.0 SL		3.9
SCOPHTHALMUS AQUOSUS	2	1	3.3	SL							0.7
ADDITIONAL LARVAE CAUGHT	SERRANIDAE UNIDENTIFIED										
B 7 14 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
CERATOSCOPELUS MADEIRENSIS	1	1	15.1	SL		1	1	4.7	TL		0.3
LCPHIUS AMERICANUS	1	1	5.0	TL		1	1	6.3	SL	0	0.6
ENCHEL YOPUS CIMBRIUS					0	1	1	6.3	SL	0	0.3
UROPHYCIS SP.	132	26	5.9	4.6- 8.4 NL		12	10	5.3	3.5- 7.5 NL		44.0
MERLUCCIIUS BILINEARIS	15	15	11.2	6.3-15.7 NL	0	59	58	5.6	3.5-15.0 NL	0	24.2
CITHARICHTHYS ARCTIFRONS	2	2	8.6	5.7-11.5 SL							0.7
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE UNIDENTIFIED					OPHIIDIIDAE					
C 1 13 10	SAMPLING DEPTH 0-15M										
UROPHYCIS SP.	1	1	9.3	NL							0.3
PRICNOTUS CAROLINUS	3	3	3.2	2.9- 3.4 SL							0.9
PARALICHTHYS DENTATUS	8	8	6.0	3.8-10.2 SL	0						2.4
SCOPHTHALMUS AQUOSUS	5	5	3.4	2.7- 4.6 SL							1.5

TABLE 3. (continued)

CRUISE DATE D6612 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS	
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	NO. EGGS	NO. EGGS	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	NO. EGGS	NO. EGGS			
C 2 13 1 C	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
BREVOORTIA TYRANNUS	155	65	11.6	5.0-18.2	TL						47.0		
ANCHOA HEPSETUS	10	10	9.8	5.0-11.7	TL						3.0		
ENCHELYOPIUS CIMBRIUS	1	1	5.6		SL						0.3	0.0	
UROPHYCIS SP.	53	25	4.5	2.1-7.5	NL						16.1		
MERLUCCIIUS BILINEARIS	3	3	8.7	4.2-15.2	NL						0.9	0.0	
PEPRILUS TRIACANTHUS	7	6	4.6	3.0-7.0	SL						2.1		
PRIONOTUS CAROLINUS	70	25	4.0	2.9-6.0	SL						21.2		
CITHARICHTHYS ARCTIFRONS	1	1	4.8		SL						0.3		
PARALICHTHYS DENTATUS	44	44	4.8	3.0-7.5	SL						13.3	0.0	
HIPPOGLOSSINA OBLONGUS	1	1	5.2		SL						0.3		
SCOPHTHALMUS AQUOSUS	123	50	4.3	2.6-7.3	SL						27.3		
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													
C 3 13 1 O	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
BREVOORTIA TYRANNUS	398	153	11.5	7.7-16.2	TL	4	4	10.8	9.3-12.2	TL	128.6		
ANCHOA HEPSETUS						1	1	29.6		TL	0.2		
ENGRaulis EURYSTOLE	27	26	10.6	7.8-14.3	TL	31	31	10.4	5.3-25.6	TL	13.3		
ENCHELYOPIUS CIMBRIUS	5	4	4.3	3.7-5.3	SL	7	7	4.0	2.7-5.2	SL	2.7	0.0	
UROPHYCIS SP.	132	27	4.9	2.5-7.2	NL	23	22	4.7	2.5-16.7	NL	44.2		
MERLUCCIIUS BILINEARIS	5	5	7.1	3.5-13.2	NL	15	15	5.7	4.4-7.2	NL	4.0	0.6	
PEPRILUS TRIACANTHUS	5	5	5.2	4.6-6.5	SL	9	9	6.9	3.7-6.2	SL	3.0		
PRIONOTUS CAROLINUS	263	54	4.0	1.9-6.7	SL	77	24	4.2	2.1-6.1	SL	53.2		
CITHARICHTHYS ARCTIFRONS	9	8	5.2	3.6-11.5	SL	10	10	4.8	3.9-6.6	SL	4.4		
PARALICHTHYS DENTATUS	40	39	5.7	3.0-8.0	SL	112	112	5.6	3.0-9.3	SL	30.4	8.1	
HIPPOGLOSSINA OBLONGUS	3	3	6.7	5.4-7.8	SL	30	25	4.5	2.7-7.1	SL	5.8		
SCOPHTHALMUS AQUOSUS	60	59	4.5	2.2-7.7	SL	142	50	4.5	2.7-8.9	SL	41.4		
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													
C 4 13 1 O	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M							
BREVOORTIA TYRANNUS	19	18	11.3	5.4-17.4	TL	1					6.3		
ENGRaulis EURYSTOLE	23	22	7.5	4.4-12.8	TL	4	3	10.3	8.7-12.2	TL	8.2		
LCPHIUS AMERICANUS						1	1	9.9		TL	0.3		
ENCHELYOPIUS CIMBRIUS	20	20	4.5	3.5-6.2	SL	20	15	4.7	3.3-6.6	SL	12.7	0.0	
UROPHYCIS SP.	469	22	5.2	3.0-8.9	NL	64	15	6.7	3.6-14.0	NL	122.0		
MERLUCCIIUS BILINEARIS	38	38	5.8	2.6-9.2	NL	65	62	6.7	2.6-13.0	NL	23.1	0.7	
PEPRILUS TRIACANTHUS	6	6	5.0	3.7-5.8	SL	4	4	3.3	1.9-6.7	SL	3.1		
PRIONOTUS CAROLINUS	75	27	4.2	2.5-6.0	SL	14	14	4.4	2.6-6.8	SL	27.2		
CITHARICHTHYS ARCTIFRONS	16	16	7.5	3.7-13.3	SL	13	13	5.1	3.4-14.7	SL	9.1		
ETROPUS MICROSTOMUS	4	4	4.5	3.7-5.6	SL	3	3	5.0	4.6-5.9	SL	2.2		
PARALICHTHYS DENTATUS	78	78	5.7	3.2-8.4	SL	43	43	6.0	3.3-8.2	SL	37.7	2.5	
HIPPOGLOSSINA OBLONGUS	4	4	5.7	4.3-7.2	SL	3	3	6.2	3.8-8.5	SL	2.2		
SCOPHTHALMUS AQUOSUS	51	48	4.2	2.7-6.7	SL	55	52	5.1	2.4-8.8	SL	33.6		
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE ANGUILLIFORMES STROMATEIDAE													
C 5 13 1 O	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M							
ENCHELYOPIUS CIMBRIUS	18	15	4.4	3.5-5.9	SL	0	15	15	5.0	3.4-7.6	SL	10.4	0.0
UROPHYCIS SP.	659	26	3.8	2.8-4.9	NL		140	24	4.3	3.8-10.8	NL	246.3	
MERLUCCIIUS BILINEARIS	34	33	5.0	2.6-7.3	NL		162	162	6.0	2.6-11.7	NL	44.2	5.6
PEPRILUS TRIACANTHUS	6	6	8.0	5.0-15.2	SL		4	4	7.6	6.8-8.9	SL	3.2	
CITHARICHTHYS ARCTIFRONS	20	20	7.8	3.6-14.7	SL		134	25	6.4	4.3-11.5	SL	50.7	
PARALICHTHYS DENTATUS	6	6	5.5	5.0-7.8	SL		4	4	6.3	5.0-7.9	SL	3.1	0.0
HIPPOGLOSSINA OBLONGUS	9	9	5.4	4.1-7.6	SL		12	12	6.0	3.7-7.1	SL	6.7	
SCOPHTHALMUS AQUOSUS	3	3	4.9	4.7-5.4	SL		4	4	5.3	4.1-6.1	SL	2.2	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED OPHIDIIDAE LABRIDAE OR SCARIDAE UNIDENTIFIED													
C 6 13 1 O	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M							
ENCHELYOPIUS CIMBRIUS	1	1	3.8		SL	0	25	24	4.2	2.2-5.7	SL	8.6	0.0
UROPHYCIS SP.	55	19	4.9	3.5-5.7	NL		22	19	4.5	2.3-8.8	NL	23.8	
MERLUCCIIUS BILINEARIS	34	34	7.6	3.1-12.2	NL	1	100	99	7.8	2.2-16.3	NL	43.5	6.0
PRIONOTUS CAROLINUS	2	2	4.1	3.7-4.5	SL		1	1	3.5		SL	0.9	
CITHARICHTHYS ARCTIFRONS	4	4	6.3	4.4-10.9	SL		16	16	7.7	3.4-12.6	SL	6.5	
PARALICHTHYS DENTATUS						0	1	1	4.8		SL	0.3	0.0
HIPPOGLOSSINA OBLONGUS	3	3	6.6	5.6-7.5	SL		2	2	6.0	3.2-8.7	SL	1.6	
SCOPHTHALMUS AQUOSUS							5	5	4.9	3.9-6.9	SL	1.7	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
C 7 13 1 O	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M							
ENGRaulis EURYSTOLE	1	1	9.0		TL		4	4	5.8	7.2-15.2	TL	0.3	
LCPHIUS AMERICANUS	1	1	9.5		TL						1.6		
ENCHELYOPIUS CIMBRIUS	1	1	7.3		SL	0	24	23	5.2	3.5-8.9	SL	8.3	C.C
UROPHYCIS SP.	92	21	5.2	3.2-10.5	NL		604	29	5.5	3.0-10.6	NL	228.9	
MERLUCCIIUS BILINEARIS	45	43	13.5	3.9-29.2	NL	4	490	487	9.9	2.3-33.8	NL	176.8	2.2
PRIONOTUS CAROLINUS	1	1	3.5		SL						0.3		
CITHARICHTHYS ARCTIFRONS	198	25	8.1	3.3-15.1	SL		171	25	6.1	4.2-14.4	SL	116.4	
HIPPOGLOSSINA OBLONGUS	8	8	5.7	3.2-8.5	SL		7	7	6.4	4.4-8.2	SL	4.7	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													

TABLE 3. (continued)

CRUISE DATE D6612 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 100 LARVAE	2 EGGS	
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	MEAS.			NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE	MEAS.				
C 8 13 10 UROPHYCIS SP. MERLUCCIIUS BILINEARIS ADDITIONAL LARVAE CAUGHT	1 1 1	11.3 19.8	NL		0	8 1	10.1 12.8	NL		0	3.0 0.6	0.0
	OPHIDIIDAE					OPHIDIIDAE						
.....												
D 1 06 10 BREVOORTIA TYRANNUS UROPHYCIS SP. MERLUCCIIUS BILINEARIS PRICNOTUS CARLINIUS PARALICHTHYS DENTATUS HIPPOGLOSSINA OBLONGUS SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	2 3 1 27 6 1 16	7.6 2.9 2.7 3.6 3.1 3.2 3.3	5.1-10.2 TL NL NL SL SL SL SL		0						0.2 0.4 0.1 3.3 0.7 0.1 1.9	C.1
	OPHIDIIDAE					STROMATEIDAE						
.....												
D 2 06 10 BREVOORTIA TYRANNUS UROPHYCIS SP. PRICNOTUS CARLINIUS PARALICHTHYS DENTATUS SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	5 3 187 7 92	6.9 2.9 3.3 3.2 3.2	4.4-8.7 TL NL SL SL SL		2						0.6 0.4 22.7 0.8 11.2	C.2
	OPHIDIIDAE					SYNGNATHIDAE						
.....												
D 3 05 10 BREVOORTIA TYRANNUS ENGRAULIS EURYSTOLE EUCHELYOPUS CIMBRIUS UROPHYCIS SP. MERLUCCIIUS BILINEARIS PEPRILUS TRIACANTHUS PRICNOTUS CARLINIUS CITHARICHTHYS ARCTIFRONS ETRECPUS MICROSTOMUS PARALICHTHYS DENTATUS HIPPOGLOSSINA OBLONGUS SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	89 15 2 115 3 13 830 1 7 100 7 453	33 14 2 21 3 13 29 1 7 58 7 50	6.9 8.7 3.1 3.5 7.1 3.7 3.4 12.2 3.7 4.1 5.3 3.4	4.1-10.1 TL 7.1-10.7 TL 2.8-3.3 SL 2.1-5.5 NL 6.9-7.4 NL 2.7-7.5 SL 1.8-4.8 SL SL 3.0-4.9 SL 2.8-6.4 SL 4.2-6.2 SL 2.4-4.9 SL		0					27.0 4.5 0.6 34.8 0.9 3.9 211.5 0.3 2.1 30.3 2.1 137.3	0.0 C.1
	OPHIDIIDAE					SERRANIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
D 4 12 10 BREVOORTIA TYRANNUS ENGRAULIS EURYSTOLE EUCHELYOPUS CIMBRIUS UROPHYCIS SP. MERLUCCIIUS BILINEARIS PEPRILUS TRIACANTHUS PRICNOTUS CARLINIUS CITHARICHTHYS ARCTIFRONS ETRECPUS MICROSTOMUS PARALICHTHYS DENTATUS HIPPOGLOSSINA OBLONGUS SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	24 3 1 36 1 1 145 3 29 29 122	17 2 1 23 1 1 28 3 29 29 50	8.1 9.8 4.3 3.2 5.8 2.9 2.9 3.7 4.4 4.4 3.5	4.7-12.8 TL 9.0-10.6 TL SL 1.7-6.0 NL SL SL 1.1-5.4 SL SL 2.4-5.3 SL 2.6-6.9 SL 2.2-4.4 SL		0					24.3 1.4 0.3 22.0 0.2 0.3 2.9 68.9 0.8 2.2 18.5 1.3 57.0	0.0 C.1
	OPHIDIIDAE					OPHIDIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
D 5 12 10 BREVOORTIA TYRANNUS ENGRAULIS EURYSTOLE EUCHELYOPUS CIMBRIUS UROPHYCIS SP. MERLUCCIIUS BILINEARIS CENTROPRISTIS STRIATA PEPRILUS TRIACANTHUS PRICNOTUS CARLINIUS CITHARICHTHYS ARCTIFRONS ETRECPUS MICROSTOMUS PARALICHTHYS DENTATUS SCOPHTHALMUS AQUOSUS ADDITIONAL LARVAE CAUGHT	11 2 23 1 1 2 46 1 11 20	10 2 12 1 1 2 41 1 9 19	7.8 6.3 4.1 6.2 5.0 16.5 4.1 3.8 4.8 4.0	5.0-10.0 TL 5.8-6.8 TL 2.9-5.5 NL NL SL 4.3-28.6 SL 2.4-5.4 SL SL 3.7-6.4 SL 2.7-6.0 SL		0					11.5 0.9 0.2 16.1 1.0 0.5 0.9 31.4 1.1 2.7 12.0 20.8	0.0 C.1
	TRIGLIDAE					UNIDENTIFIED						

TABLE 3. (continued)

127

CRUISE DATE D 6 12 10	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
STA. D M SPECIES ANALYZED	TOTAL	MEAS.	MEAN	MEAS.	TOTAL	MEAS.	MEAN	MEAS.			
D 6 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
BREVOORTIA TYRANNUS	17	17	12.0	9.3-13.7 TL		11	11	11.4	9.5-13.0 TL		8.8
ENGRAULIS EURYSTOLE	7	7	9.9	9.0-11.1 TL		2	2	9.8	9.0-10.7 TL		2.8
ENCHELYOPUS CIMBRIUS	1	1	4.4	SL	0						0.3
UROPHYCIS SP.	863	27	4.2	2.3- 7.9 NL		118	28	4.1	2.4- 7.1 NL		298.2
MERLUCCIIUS BILINEARIS	125	121	6.2	2.5-18.3 NL	8	135	131	6.9	1.6-17.7 NL	3	22.5
PEPRILUS TRIACANTHUS	25	25	5.3	3.7- 9.9 SL		4	4	6.9	5.2- 7.7 SL		8.8
PRIONOTUS CAROLINUS	20	20	4.2	2.6- 5.5 SL		4	4	4.2	3.5- 4.6 SL		7.3
CITHARICHTHYS ARCTIFRONS	130	25	7.0	4.2- 9.4 SL		130	25	7.1	3.5-13.5 SL		22.3
PARALICHTHYS DENTATUS	16	16	5.8	5.0- 7.6 SL	1	12	12	5.7	4.6- 7.0 SL	0	8.8
HIPPOGLOSSINA OBLONGUS	11	10	5.2	3.2- 6.2 SL		3	3	7.1	6.2- 7.7 SL		4.3
SCOPHTHALMUS AQUOSUS	4	3	5.2	4.1- 5.9 SL		15	15	5.5	3.3- 6.7 SL		6.2
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					STROMATEIDAE					
	CORYPHAENIDAE					UNIDENTIFIED					
	STROMATEIDAE					UNIDENTIFIED					
	UNIDENTIFIED										
D 7 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
ENGRAULIS EURYSTOLE	1	1	10.6	TL							0.3
LCPIIUS AMERICANUS	1	1	5.4	TL		1	1	5.7	TL		0.6
ENCHELYOPUS CIMBRIUS	2	1	3.7	SL	0	1	1	3.8	SL	0	0.9
UROPHYCIS SP.	667	34	3.7	2.2- 5.4 NL		310	26	5.1	1.9- 8.1 NL		313.4
MERLUCCIIUS BILINEARIS	46	45	4.2	3.0- 6.7 NL	5	42	42	5.6	3.4- 8.3 NL	7	27.8
PEPRILUS TRIACANTHUS	4	4	4.9	3.4- 6.4 SL		1	1	61.8	SL		1.5
PRIONOTUS CAROLINUS	408	22	2.8	1.5- 3.5 SL		1	1	3.3	SL		136.0
CITHARICHTHYS ARCTIFRONS	91	25	5.6	3.1-11.3 SL		354	25	6.7	4.2- 5.6 SL		145.3
PARALICHTHYS DENTATUS					0	2	2	6.0	5.7- 6.3 SL	0	0.7
HIPPOGLOSSINA OBLONGUS	16	16	5.3	3.8- 6.5 SL		14	14	6.8	4.6- 8.3 SL		9.5
SCOPHTHALMUS AQUOSUS	2	2	5.3	5.2- 5.3 SL		1	1	5.5	SL		0.9
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					LOPHIIFORMES					
	UNIDENTIFIED					OPHIDIIDAE					
						LABRIDAE OR SCARIDAE					
						UNIDENTIFIED					
D 8 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M					
LCPIIUS AMERICANUS	1	1	5.1	TL		1	1	4.9	TL		0.6
ENCHELYOPUS CIMBRIUS					0	3	3	4.0	3.5- 4.4 SL	0	1.0
UROPHYCIS SP.	460	30	4.0	1.9- 7.6 NL		222	30	4.1	2.1- 6.2 NL		212.0
MERLUCCIIUS BILINEARIS	2	2	4.3	2.9- 5.7 NL	36	39	35	4.5	2.8- 6.7 NL	9	13.6
PEPRILUS TRIACANTHUS	1	1	6.7	SL		1	1	7.7	SL		0.6
PRIONOTUS CAROLINUS	1	1	4.0	SL		2	2	2.7	2.3- 3.1 SL		1.0
CITHARICHTHYS ARCTIFRONS	9	9	5.2	2.7- 6.5 SL		253	25	6.3	4.6-11.8 SL		87.0
HIPPOGLOSSINA OBLONGUS	3	3	3.8	3.5- 4.2 SL		4	4	5.8	4.2- 7.1 SL		2.2
ADDITIONAL LARVAE CAUGHT						OPHIDIIDAE					
						UNIDENTIFIED					
E 1 05 10	SAMPLING DEPTH 0- 6M										
BREVOORTIA TYRANNUS	10	9	7.2	5.6- 8.7 TL							1.2
ENGRAULIS EURYSTOLE	1	1	16.5	TL							0.1
UROPHYCIS SP.	1	1	1.1	NL							0.1
PRIONOTUS CAROLINUS	89	21	2.7	2.0- 3.7 SL							10.8
CITHARICHTHYS ARCTIFRONS	1	1	3.7	SL							0.1
PARALICHTHYS DENTATUS	1	1	4.1	SL	0						0.1
SCOPHTHALMUS AQUOSUS	5	5	2.6	2.2- 2.9 SL							0.6
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										
	UNIDENTIFIED										
E 2 05 10	SAMPLING DEPTH 0- 6M										
ENGRAULIS EURYSTOLE	2	2	4.7	3.1- 6.3 TL							0.2
UROPHYCIS SP.	10	7	2.0	1.5- 2.4 NL							1.2
PRIONOTUS CAROLINUS	134	29	3.6	2.2- 5.5 SL							16.2
ETROPJUS MICROSTOMUS	17	16	2.9	2.3- 4.1 SL							2.1
PARALICHTHYS DENTATUS	10	9	3.7	2.9- 4.8 SL	0						1.2
SCOPHTHALMUS AQUOSUS	16	16	2.7	2.3- 3.0 SL							1.9
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										
	UNIDENTIFIED										
E 3 05 10	SAMPLING DEPTH 0- 6M										
BREVOORTIA TYRANNUS	6	6	5.9	4.0-10.3 TL							0.7
UROPHYCIS SP.	29	23	2.8	1.8- 4.2 NL							3.5
CENTROPRIETIS STRIATA	1	1	5.0	SL							0.1
PRIONOTUS CAROLINUS	83	17	2.7	1.5- 3.5 SL							10.1
ETROPJUS MICROSTOMUS	23	23	3.0	2.3- 3.9 SL							2.8
PARALICHTHYS DENTATUS	28	27	3.5	3.0- 4.6 SL	45						3.4
HIPPOGLOSSINA OBLONGUS	6	5	3.0	2.8- 3.2 SL							0.7
SCOPHTHALMUS AQUOSUS	7	7	2.8	2.4- 3.1 SL							0.8
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										
	UNIDENTIFIED										

TABLE 3. (continued)

128

CRUISE DATE D6612 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 PER 10M EGGS	
	NUMBER	LENGTHS (MM)		MEAS.		NUMBER	LENGTHS (MM)		MEAS.			
E 4 11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
BREVOORTIA TYRANNUS	3	2	11.5	10.0-13.0	TL						0.9	
UROPHYCIS SP.	13	5	5.6	1.9-12.5	NL						3.9	
MERLUCCIIUS BILINEARIS	1	1	2.8		NL	33					0.3	
PRIONOTUS CAROLINUS	60	18	3.3	1.6- 4.6	SL						18.2	
ETROPUS MICROSTOMUS	1	1	3.9		SL						0.3	
PARALICHTHYS DENTATUS	4	4	4.4	3.9- 5.1	SL	119					1.2	
HIPPOGLOSSINA OBLONGUS	3	2	3.1	3.0- 3.1	SL						0.9	
SCORPHTHALMUS AQUOSUS	26	8	4.4	2.8- 6.3	SL						7.9	
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE					UNIDENTIFIED						
.....												
E 5 11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M						
BREVOORTIA TYRANNUS	476	111	7.2	3.7-12.5	TL	563	89	6.6	2.9-13.7	TL	237.1	
ENGRAULIS EURYSTOLE	1	1	13.1		TL						0.3	
ENCHELYOPUS CIMBRIUS	1	1	4.3		SL						0.3	
UROPHYCIS SP.	437	32	3.6	1.6- 8.3	NL	0	287	33	4.1	1.7- 6.1	NL	180.6
MERLUCCIIUS BILINEARIS	21	21	6.4	2.9-20.2	NL	1	15	15	5.1	2.7- 7.6	NL	8.9
CENTROPOMUS STRIATUS	1	1	6.1		SL						0.3	
PEPRILUS TRIACANTHUS	7	7	3.8	2.5- 5.5	SL		8	8	6.0	4.6- 7.6	SL	3.5
PRIONOTUS CAROLINUS	433	38	3.5	2.1- 4.7	SL		80	22	3.5	2.0- 5.0	SL	145.9
PRIONOTUS EVOLANS	1	1	6.4		SL						0.3	
CITHARICHTHYS ARCTIFRONS	28	24	4.4	2.9-13.3	SL		19	19	5.3	3.3-11.7	SL	11.7
ETROPUS MICROSTOMUS							3	3	3.7	3.4- 4.4	SL	0.5
PARALICHTHYS DENTATUS	41	40	5.0	2.8- 6.4	SL	15	39	38	4.0	3.0- 6.0	SL	18.9
HIPPOGLOSSINA OBLONGUS	55	52	4.0	2.6- 5.4	SL		11	11	3.8	2.8- 5.2	SL	18.7
SCORPHTHALMUS AQUOSUS	140	50	3.7	2.4- 4.9	SL		218	50	3.7	2.8- 6.2	SL	78.2
ADDITIONAL LARVAE CAUGHT	SERRANICAE					OPHIIDIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
E 6 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
BREVOORTIA TYRANNUS	66	36	10.4	7.7-13.0	TL	9	9	9.6	4.9-12.2	TL	22.8	
ENGRAULIS EURYSTOLE						1	1	16.6		TL	0.3	
ENCHELYOPUS CIMBRIUS	1	1	4.1		SL						0.3	
UROPHYCIS SP.	161	29	4.5	2.9-12.4	NL	0	69	20	4.9	2.6- 6.7	NL	71.3
MERLUCCIIUS BILINEARIS	35	34	6.6	3.1-25.0	NL	3	18	18	8.5	4.5-23.4	NL	16.5
PEPRILUS TRIACANTHUS	1	1	4.1		SL						0.3	
PRIONOTUS CAROLINUS	62	22	3.9	3.0- 5.0	SL		1	1	4.1		20.7	
CITHARICHTHYS ARCTIFRONS	30	27	6.7	2.7-13.9	SL		44	25	6.0	3.6- 9.3	SL	23.7
PARALICHTHYS DENTATUS	13	13	5.7	4.9- 6.6	SL	0	8	8	6.4	5.4- 7.5	SL	6.6
HIPPOGLOSSINA OBLONGUS	9	5	4.2	2.5- 5.6	SL		2	1	6.4		3.4	
SCORPHTHALMUS AQUOSUS	40	16	4.1	2.4- 5.8	SL		10	7	4.4	3.7- 5.8	SL	15.3
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					OPHIIDIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
E 7 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
BREVOORTIA TYRANNUS						4	4	10.3	10.0-10.5	TL	1.3	
ENCHELYOPUS CIMBRIUS						1	1	2.5		SL	0.3	
UROPHYCIS SP.	43	16	3.8	1.8- 6.0	NL	0	297	36	4.6	2.1- 8.0	NL	111.9
MERLUCCIIUS BILINEARIS	7	7	8.0	4.7-14.1	NL	1	52	52	10.0	2.8-31.4	NL	19.4
CITHARICHTHYS ARCTIFRONS	13	12	6.8	4.7- 8.7	SL		473	25	6.4	4.7- 8.1	SL	141.6
ETROPUS MICROSTOMUS							1	1	7.1		0.3	
PARALICHTHYS DENTATUS						0	1	1	6.0		0.3	
HIPPOGLOSSINA OBLONGUS	1	1	6.3		SL		8	7	6.3	4.7- 8.1	SL	3.0
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE					OPHIIDIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
E 8 12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
UROPHYCIS SP.	149	29	4.0	2.1- 8.7	NL	0	21	9	3.2	1.7- 6.5	NL	51.7
MERLUCCIIUS BILINEARIS	5	4	3.5	2.8- 4.4	NL		2	2	3.0	2.8- 3.2	NL	2.2
CITHARICHTHYS ARCTIFRONS	25	25	4.1	3.0- 5.2	SL		8	6	5.3	3.7- 7.7	SL	10.2
HIPPOGLOSSINA OBLONGUS	1	1	6.7		SL		3	2	4.4	3.6- 5.2	SL	1.3
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE					UNIDENTIFIED						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
F 1 05 10	SAMPLING DEPTH 0- 6M											
AACHNA MITCHELLI	7	7	16.5	11.3-19.5	TL						0.8	
UROPHYCIS SP.	2	2	2.6	1.7- 3.5	NL						0.2	
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE											
	GOBIIDAE											
	UNIDENTIFIED											
.....												
F 2 05 10	SAMPLING DEPTH 0- 6M											
AACHNA MITCHELLI	1	1	11.2		TL						0.1	
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE											
	SYNGNATHICAE											
	GOBIIDAE											

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER	LENGTHS (MM)					NUMBER	LENGTHS (MM)					
F 3 C5 10	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 0-15M						
UROPHYCIS SP.	2	1	3.1		NL							0.6	
PRICNOTUS CARLINUS	15	15	3.2	2.4-	3.8 SL							4.5	
ETRCPUS MICROSTOMIUS	16	16	3.3	2.6-	3.7 SL							4.8	
SCOPHTHALMUS AQUOSUS	1	1	3.6		SL							0.3	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE SYNGNATHIDAE													
F 4 C5 10	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 0-15M						
BREVOORTIA TYRANNUS	4	4	6.2	4.7-	6.5 TL							1.2	
UROPHYCIS SP.	99	30	2.3	1.5-	3.8 NL							30.0	
CENTROPRISTIS STRIATA	2	2	4.2	3.5-	5.0 SL							0.6	
PRICNOTUS CARLINUS	92	25	3.0	2.1-	5.1 SL							27.9	
CITHARICHTHYS ARCTIFRONS	3	3	5.3	3.4-	6.6 SL							0.9	
ETRCPUS MICROSTOMIUS	8	8	3.7	2.6-	4.6 SL							2.4	
PARALICHTHYS DENTATUS	1	1	5.4		SL	0						0.3	0.0
HIPPUGLOSSINA OBLONGUS	4	4	2.9	2.5-	3.1 SL							1.2	
SCOPHTHALMUS AQUOSUS	1	1	3.7		SL							0.3	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													
F 5 C4 10	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS	18	16	6.9	5.0-	11.4 TL		30	29	7.1	5.0-	12.5 TL		10.4
ENGRAULIS EURYSTOLE							3	3	17.9	15.6-	20.0 TL		0.5
UROPHYCIS SP.	33	21	3.1	1.9-	10.2 NL		77	35	3.7	1.8-	8.9 NL		22.6
MERLUCCIIUS BILINEARIS	2	2	5.6	4.2-	7.0 NL	0	1	1	3.7		NL	1	0.8
CENTROPRISTIS STRIATA	2	2	5.4	5.3-	5.6 SL		1	1	3.6		SL		0.8
PEPRILUS TRIACANTHUS	2	2	5.2	5.1-	5.3 SL		1	1	3.8		SL		0.8
PRICNOTUS CARLINUS	191	24	3.2	2.4-	5.2 SL		51	24	3.2	2.2-	4.5 SL		66.9
CITHARICHTHYS ARCTIFRONS	9	9	5.5	3.4-	10.0 SL		16	16	5.0	6.2-	12.7 SL		5.4
ETRCPUS MICROSTOMIUS	5	5	4.4	3.6-	4.9 SL		3	3	3.8	3.3-	4.7 SL		2.0
PARALICHTHYS DENTATUS	15	15	4.3	3.1-	7.0 SL	62	103	99	4.0	2.9-	4.8 SL	39	21.3
HIPPUGLOSSINA OBLONGUS	1	1					4	2	7.9	4.8-	11.0 SL		1.0
SCOPHTHALMUS AQUOSUS							31	28	3.6	2.9-	4.5 SL		5.0
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													
F 6 C4 10	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
BREVOORTIA TYRANNUS	92	43	7.0	5.8-	10.2 TL		8	6	7.2	6.9-	7.6 TL		20.7
ENGRAULIS EURYSTOLE	4	4	12.9	10.0-	14.7 TL								1.3
ENCFELYOPUS CMBRIUS						0	1	1	4.7		SL	0	0.3
UROPHYCIS SP.	364	27	3.8	1.7-	7.9 NL		13	8	2.7	2.1-	3.3 NL		121.3
MERLUCCIIUS BILINEARIS	70	69	6.4	2.9-	23.3 NL	0	10	9	7.0	3.7-	13.8 NL	0	24.3
PEPRILUS TRIACANTHUS	3	3	13.0	4.0-	30.5 SL								1.0
PRICNOTUS CARLINUS	373	29	3.0	1.9-	4.3 SL		8	8	2.8	2.2-	3.6 SL		124.3
CITHARICHTHYS ARCTIFRONS	389	25	6.0	3.2-	10.2 SL		11	10	6.2	2.5-	10.2 SL		129.7
ETRCPUS MICROSTOMIUS	15	15	5.0	3.3-	6.9 SL		1	1	2.9		SL		5.0
PARALICHTHYS DENTATUS	115	106	4.0	3.2-	6.5 SL	0	6	6	4.0	3.3-	4.4 SL	0	28.3
HIPPUGLOSSINA OBLONGUS	77	50	3.3	2.7-	5.2 SL								25.7
SCOPHTHALMUS AQUOSUS	15	13	3.3	2.7-	5.3 SL		2	2	2.9	2.6-	3.0 SL		5.2
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED													
F 7 C4 10	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
BREVOORTIA TYRANNUS	426	38	6.6	3.1-	8.5 TL		2	2	6.7	5.8-	7.6 TL		142.0
ENGRAULIS EURYSTOLE	2	2	13.1	11.6-	14.7 TL		2	2	14.0	13.3-	14.8 TL		1.3
LOPHIUS AMERICANUS	1	1	5.1		TL		1	1	4.9		TL		0.6
UROPHYCIS SP.	374	39	3.5	1.8-	5.9 NL		86	15	4.3	2.5-	7.5 NL		140.9
MERLUCCIIUS BILINEARIS	6	6	4.7	3.0-	7.0 NL	0	21	17	6.3	3.0-	9.3 NL	0	8.8
PEPRILUS TRIACANTHUS							1	1	2.9		SL		0.3
PRICNOTUS CARLINUS	5	5	2.9	2.5-	3.1 SL		9	9	3.3	3.0-	3.7 SL		4.5
CITHARICHTHYS ARCTIFRONS	108	25	6.1	3.3-	7.9 SL		120	25	5.4	4.0-	15.0 SL		72.4
HIPPUGLOSSINA OBLONGUS	32	32	4.2	2.7-	6.2 SL		11	10	6.0	4.2-	8.1 SL		13.3
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE STROMATEIDAE UNIDENTIFIED													
G 1 C4 10	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 0-6M						
ANCHOA MITCHELLI	19	19	25.4	14.8-	47.1 TL								2.3
G 2 C3 10	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 0-6M						
PRICNOTUS CARLINUS	11	11	3.7	2.1-	6.0 SL								1.3
PRICNOTUS EVOLANS	1	1	5.0		SL								0.1
ETRCPUS MICROSTOMIUS	1	1	4.1		SL								0.1
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													

TABLE 3. (continued)

130

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. LARVAE	PER 10M	2 EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.			
G 3 C3 10	SAMPLING DEPTH 0-15M											
BREVIDORTIA TYRANNUS	1	1	11.6	TL							0.3	
UROPHYCIS SP.	8	6	2.4	1.7- 3.0 NL							2.4	
PRICNOTUS CARLINUS	28	27	3.4	2.3- 5.9 SL							8.5	
ETROPUS MICROSTOMUS	1	1	6.3	SL							0.3	
PARALICHTHYS DENTATUS					24						0.0	7.3
HIPPUGLOSSINA OBLONGUS	2	1	3.0	SL							0.6	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE												
.....												
G 4 C4 10	SAMPLING DEPTH 0-15M											
BREVIDORTIA TYRANNUS	2553	116	6.4	2.7-10.5 TL							773.6	
ENGRAULIS EURYSTOLE	10	10	17.9	11.4-23.1 TL							3.0	
LCRPHYS AMERICANUS	1	1	14.0	TL							0.3	
UROPHYCIS SP.	804	28	2.7	1.7- 5.4 NL							243.6	
MERLUCCIIUS BILINEARIS	1	1	5.4	NL	0						0.3	0.0
CENTROPRIETIS STRIATA	1	1	6.3	SL							0.3	
PEPRILUS TRIACANTHUS	1	1	6.2	SL							0.3	
PRICNOTUS CARLINUS	2425	25	3.2	1.9- 5.2 SL							734.8	
CITHARICHTHYS ARCTIFRONS	62	25	6.4	2.7-11.7 SL							18.8	
ETROPUS MICROSTOMUS	20	20	5.5	2.7-11.4 SL							6.1	
PARALICHTHYS DENTATUS	22	21	4.1	3.2- 5.2 SL	0						6.7	0.0
HIPPUGLOSSINA OBLONGUS	64	60	4.0	2.9- 7.2 SL							19.4	
SCOPHTHALMUS AQUOSUS	28	28	3.6	3.1- 4.1 SL							8.5	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
G 5 C4 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
BREVIDORTIA TYRANNUS	79	37	7.1	2.7-10.3 TL		2	2	7.3	7.2- 7.4 TL			26.3
ENGRAULIS EURYSTOLE	2	2	13.0	13.0-13.1 TL							0.7	
LCRPHYS AMERICANUS	1	1	4.9	TL							0.3	
EACHELYOPIUS CIMBRIUS					0	1	1	4.2	SL	0	0.3	0.0
UROPHYCIS SP.	209	26	3.4	2.3- 5.5 NL		23	18	2.1	1.7- 4.4 NL	0	10.4	
MERLUCCIIUS BILINEARIS					0	2	2	4.6	3.5- 5.8 NL	0	0.7	0.0
CENTROPRIETIS STRIATA	4	4	5.8	5.5- 6.1 SL							1.3	
PEPRILUS TRIACANTHUS	4	4	5.4	5.2- 5.6 SL							1.3	
PRICNOTUS CARLINUS	809	25	3.6	2.3- 5.9 SL		31	31	3.2	2.4- 5.7 SL		269.6	
CITHARICHTHYS ARCTIFRONS	52	52	4.9	2.9-10.7 SL		24	24	8.5	4.4-14.2 SL		23.6	
ETROPUS MICROSTOMUS	18	18	7.0	3.9-11.6 SL		6	6	8.8	6.1-11.7 SL		7.4	
PARALICHTHYS DENTATUS	3	3	4.9	3.8- 6.3 SL	0	2	2	5.6	3.8- 7.4 SL	0	1.6	0.0
HIPPUGLOSSINA OBLONGUS	22	19	4.1	3.1- 5.7 SL		1	1	7.1	SL		7.3	
SCOPHTHALMUS AQUOSUS	3	3	4.1	3.7- 4.6 SL		2	2	4.8	4.5- 5.1 SL		1.6	
ADDITIONAL LARVAE CAUGHT SERRANICAE UNIDENTIFIED												
.....												
G 6 C4 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BREVIDORTIA TYRANNUS	29	24	7.0	3.9- 5.7 TL		6	5	7.4	6.3-10.3 TL			10.7
ENGRAULIS EURYSTOLE						2	2	15.9	15.8-16.0 TL			0.7
CERATOSCOFELUS MAHERENSIS	2	2	8.0	7.5- 8.6 SL		2	2	10.0	9.5-10.5 SL			1.3
LCRPHYS AMERICANUS						1	1	10.6	TL			0.3
UROPHYCIS SP.	625	27	3.9	2.2- 8.5 NL		97	13	6.1	2.9- 8.0 NL			219.8
MERLUCCIIUS BILINEARIS					0	1	1	7.4	NL	1	0.3	0.3
PEPRILUS TRIACANTHUS						1	1	31.0	SL		0.3	
PRICNOTUS CARLINUS	351	28	3.3	2.5- 4.0 SL		50	24	3.1	2.2- 3.8 SL		122.0	
CITHARICHTHYS ARCTIFRONS	25	25	6.7	5.1- 9.6 SL		129	25	7.4	5.3- 9.6 SL		50.5	
HIPPUGLOSSINA OBLONGUS	13	13	4.1	2.9- 5.2 SL		10	10	6.0	3.7- 8.0 SL		7.2	
SCOPHTHALMUS AQUOSUS	1	1	3.8	SL							0.3	
ADDITIONAL LARVAE CAUGHT CYCLOTHICAE SP. UNIDENTIFIED												
.....												
H 1 C3 10	SAMPLING DEPTH 0- 6M											
PRICNOTUS CARLINUS	2	2	5.0	4.5- 5.5 SL								0.2
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED												
.....												
H 2 C3 10	SAMPLING DEPTH 0- 6M											
ENGRAULIS EURYSTOLE	1	1	12.8	TL								0.1
PRICNOTUS CARLINUS	13	13	3.8	2.1- 5.6 SL								1.6
ETROPUS MICROSTOMUS	2	2	5.2	4.0- 6.3 SL								0.2
.....												
H 3 C3 10	SAMPLING DEPTH 0-15M											
PRICNOTUS CARLINUS	7	7	3.6	1.9- 4.8 SL								2.1
ETROPUS MICROSTOMUS	16	16	4.3	2.0- 6.3 SL								4.8
PARALICHTHYS DENTATUS					25						0.0	7.6
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED												

TABLE 3. (continued)

131

CRUISE DATE STA. D M	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 PER 10M EGGS
		NUMBER	LENGTHS (MM)	MEAN	RANGE		NUMBER	LENGTHS (MM)	MEAN	RANGE		
F 4	C3 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M					
	BREVOORTIA TYRANNUS	10	10	10.3	8.0-11.3	TL					3.0	
	UROPHYCIS SP.	14	5	3.2	2.7-3.7	NL					4.2	
	PRINCOTUS CAROLINUS	38	19	4.2	2.8-5.2	SL					11.5	
	ETROPUS MICROSTOMUS	13	13	5.0	3.7-8.0	SL					3.9	
	PARALICHTHYS DENTATUS										0.0	13.6
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE SERRANIIDAE UNIDENTIFIED				45						
.....												
F 5	C3 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	BREVOORTIA TYRANNUS	1	1	7.8		TL	5	5	7.4	6.9-8.0	TL	2.0
	UROPHYCIS SP.	46	31	3.8	2.5-7.9	NL	18	16	3.1	2.0-4.5	NL	19.8
	PEPRILUS TRIACANTHUS						1	1	7.0		SL	0.3
	PRINCOTUS CAROLINUS	15	15	3.9	2.5-5.4	SL	8	8	3.8	2.7-5.4	SL	7.2
	CITHARICHTHYS ARCTIFRONS	2	2	6.0	4.3-7.6	SL	2	2	3.5	3.2-3.7	SL	1.3
	ETROPUS MICROSTOMUS	8	8	7.2	3.4-10.3	SL	2	2	5.5	4.7-7.0	SL	3.1
	PARALICHTHYS DENTATUS										0.0	1.7
	HIPPOGLOSSINA OBLONGUS	1	1	7.2		SL	1	1	4.2		SL	0.6
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE					OPHIDIIDAE					
.....												
H 6	C3 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	ENGRAULIS EURYSTOLE						4	4	18.7	15.6-21.0	TL	1.3
	CERATOSCOPELUS MAERENSIS	2	2	8.6	7.9-9.3	SL	8	8	9.6	7.2-11.9	SL	3.3
	UROPHYCIS SP.	232	34	4.9	2.4-8.3	NL	75	15	7.7	2.2-16.3	NL	54.6
	MERLUCCIVUS BILINEARIS						1	1	15.0		NL	0.3
	PRINCOTUS CAROLINUS	3	3	2.9	2.8-3.0	SL						1.0
	CITHARICHTHYS ARCTIFRONS	79	25	6.2	3.2-10.7	SL	121	25	8.7	6.0-12.7	SL	64.0
	ETROPUS MICROSTOMUS	1	1	5.9		SL						0.3
	HIPPOGLOSSINA OBLONGUS	8	8	4.6	3.6-5.9	SL	6	5	6.1	5.5-6.3	SL	4.4
	ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES OPHIDIIDAE UNIDENTIFIED				2	OPHIDIIDAE GOBIIDAE				0	0.7
.....												
H 7	C3 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	ENGRAULIS EURYSTOLE	5	5	17.7	11.2-22.6	TL	1	1	29.5		TL	1.8
	CERATOSCOPELUS MAERENSIS	4	4	9.3	7.7-11.6	SL	2	2	12.0	10.5-13.5	SL	1.9
	UROPHYCIS SP.	68	20	4.0	1.8-8.6	NL	1	1	9.6		NL	22.7
	CITHARICHTHYS ARCTIFRONS	15	14	6.3	3.3-13.5	SL						5.0
	HIPPOGLOSSINA OBLONGUS	7	7	3.3	2.7-4.5	SL						2.3
	ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES OPHIDIIDAE UNIDENTIFIED										
.....												
J 1	C1 10	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M					
	ADDITIONAL LARVAE CAUGHT	GOBIIDAE										
.....												
J 2	C1 10	SAMPLING DEPTH 0-3M					SAMPLING DEPTH 0-3M					
	BREVOORTIA TYRANNUS	2	2	5.9	5.5-6.4	TL						0.1
	ANCHIA HEPSETUS	1	1	17.3		TL						0.1
	PRINCOTUS CAROLINUS	6	6	6.1	5.7-6.6	SL						0.4
	ETROPUS MICROSTOMUS	10	10	4.6	3.3-6.7	SL						0.6
	SYMPHURUS SP.	6	6	6.1	3.7-8.1	SL						0.4
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE SYNGNATHICAE BLENNIICAE TRIGLICAE UNIDENTIFIED										
.....												
J 3	C1 10	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M					
	BREVOORTIA TYRANNUS	2	2	3.9	3.5-4.4	TL						0.2
	UROPHYCIS SP.	2	2	8.1	7.5-8.8	NL						0.2
	PRINCOTUS CAROLINUS	1	1	4.9		SL						0.1
	ETROPUS MICROSTOMUS	12	12	5.0	2.7-8.5	SL						1.5
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE TRIGLICAE										
.....												
J 4	C2 10	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M					
	UROPHYCIS SP.	6	4	5.2	2.7-6.5	NL						0.7
	PRINCOTUS CAROLINUS	4	4	4.0	3.5-4.5	SL						0.5
	CITHARICHTHYS ARCTIFRONS	1	1	7.0		SL						0.1
	ETROPUS MICROSTOMUS	15	15	7.7	4.6-11.1	SL						1.8
	HIPPOGLOSSINA OBLONGUS	1	1	5.3		SL						0.1
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	NO.	NO. PER 10 ²
STA. N M SPECIES ANALYZED	TOTAL MEAS. MEAN LENGTHS (MM) RANGE MEAS.	TOTAL MEAS. MEAN LENGTHS (MM) RANGE MEAS.	EGGS	LARVAE EGGS
J 5 C2 10	SAMPLING DEPTH 0-15M			
UFCRHYCIS SP.	36 26 5.9 4.0- 8.4 NL			10.9
PEPRILUS TRIACANTHUS	2 2 3.6 3.1- 4.1 SL			0.6
PRICNOTUS CAROLINUS	2 2 5.0 4.0- 6.1 SL			0.6
CITHARICHTHYS ARCTIFRONS	21 21 5.6 2.7-10.8 SL			6.4
ETROPUS MICROSTOMUS	15 15 8.3 3.9-11.9 SL			4.5
HIPPUGLOSSINA OBLONGUS	4 4 5.0 3.2- 6.4 SL			1.2
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			
	UNIDENTIFIED			
J 6 C2 10	SAMPLING DEPTH C-15M			
UFCRHYCIS SP.	114 16 6.0 4.5- 8.1 NL	SAMPLING DEPTH 18-24M	38 30 5.4 2.5- 8.9 NL	41.1
CENTROPRESTIS STRIATA			1 1 4.1 SL	0.2
PEPRILUS TRIACANTHUS			1 1 4.2 SL	0.2
PRICNOTUS CAROLINUS	2 2 3.4 3.2- 3.7 SL			0.6
CITHARICHTHYS ARCTIFRONS	55 25 6.1 3.7-10.7 SL		46 25 6.6 3.3-12.6 SL	24.3
ETROPUS MICROSTOMUS	20 20 7.4 4.3- 9.3 SL		11 11 7.3 4.7-10.3 SL	7.9
HIPPUGLOSSINA OBLONGUS	7 7 4.6 3.7- 6.3 SL		7 7 4.3 4.7- 7.9 SL	3.3
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			
	OPHIIDIIDAE			
J 7 C2 10	SAMPLING DEPTH C-15M			
CERATOSCOPELUS MADEFENSIS	2 2 9.8 7.7-12.0 SL	SAMPLING DEPTH 18-33M	3 3 11.1 11.0-11.1 SL	1.6
URCRHYCIS SP.	8 3 6.8 5.6- 7.7 NL		5 4 11.2 6.0-14.0 NL	4.1
MERLUCCIIUS BILINEARIS			1 1 22.5 NL	0.3
CITHARICHTHYS ARCTIFRONS	3 3 5.2 4.2- 6.2 SL		10 10 7.8 5.2-13.6 SL	4.2
ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES			
	LOPHIIFORMES			
	GOBIIDAE			0.0
K 1 C1 10	SAMPLING DEPTH 0-15M			
ANCHOA HEPSETUS	1 1 7.8 TL			0.3
CENTROPRESTIS STRIATA	1 1 4.3 SL			0.3
PEPRILUS TRIACANTHUS	1 1 4.2 SL			0.3
SYMPHURUS SP.	3 2 8.2 7.9- 8.4 SL			0.9
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			
	TRIGLIDAE			
K 2 C1 10	SAMPLING DEPTH 0-15M			
BREVOORTIA TYRANNUS	2 2 3.6 3.5- 3.7 TL			0.6
ANCHOA HEPSETUS	1 1 16.5 TL			0.3
SYMPHURUS SP.	2 2 7.4 7.2- 7.5 SL			0.6
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			
	TRIGLIDAE			
K 3 C1 10	SAMPLING DEPTH 0-15M			
BREVOORTIA TYRANNUS	11 10 6.4 4.5- 7.7 TL			3.3
UFCRHYCIS SP.	1 1 8.2 NL			0.3
MICROPOGON UNDULATUS	1 1 4.6 SL			0.3
PRICNOTUS CAROLINUS	1 1 4.4 SL			0.3
ETROPUS MICROSTOMUS	26 25 5.1 3.6- 8.4 SL			7.9
SYMPHURUS SP.	1 1 6.7 SL			0.3
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			
K 4 C1 10	SAMPLING DEPTH C-15M			
UFCRHYCIS SP.	6 5 3.9 2.9- 6.0 NL			1.8
PRICNOTUS CAROLINUS	3 3 3.6 3.3- 4.0 SL			0.9
CITHARICHTHYS ARCTIFRONS	6 6 4.8 4.0- 6.0 SL			1.8
ETROPUS MICROSTOMUS	4 2 5.0 4.6- 5.3 SL			1.2
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE			
K 5 C1 10	SAMPLING DEPTH C-15M			
ANCHOA HEPSETUS	13 13 8.1 5.1-14.4 TL	SAMPLING DEPTH 18-24M	2 2 16.0 15.1-17.0 TL	4.3
ENGRANULIS EURYSTOLE			8 8 13.5 7.2-19.4 TL	1.3
UFCRHYCIS SP.	9 6 4.1 2.7- 5.6 NL		31 11 7.9 3.9- 9.8 NL	7.8
CENTROPRESTIS STRIATA			1 1 7.3 SL	0.2
LARIMUS FASCIATUS	1 1 5.5 SL		1 1 4.3 SL	0.5
MICROPOGON UNDULATUS	2 2 4.4 4.1- 4.8 SL			0.6
PEPRILUS TRIACANTHUS			1 1 7.6 SL	0.2
PRICNOTUS CAROLINUS			2 2 3.0 2.7- 3.3 SL	0.3
BOTHUS OCELLATUS	1 1 8.4 SL			0.5
CITHARICHTHYS ARCTIFRONS	17 13 4.6 3.0- 6.7 SL		8 6 6.3 4.2-10.3 SL	6.5
ETROPUS MICROSTOMUS	20 20 5.9 4.6- 7.1 SL		8 8 6.7 5.3- 8.1 SL	7.4
SYACIUM PAPILLOSUM	1 1 8.2 SL			0.3
GLYPTOCEPHALUS CYNOGLOSSUS			1 1 22.7 SL	0.2
ADDITIONAL LARVAE CAUGHT	SYNDONTIDAE			
	LOPHIIFORMES			
	OPHIIDIIDAE			
	URANOSCOPICAE			
	TRIGLIDAE			
	GOBIIDAE			

TABLE 3. (continued)

133

CRUISE DATE D6612 1966 STA. D M SPECIES ANALYZED K 6 30 09	***** LARVAE *****				/ NO. EGGS	***** LARVAE *****				NO. EGGS	2 NO. PER 100 LARVAE EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
ANCHOA HEPSETUS	24	23	10.6	5.5-15.8	TL	8	6	11.6	7.0-16.0	TL	9.9
ENGRAULIS EURYSTOLE	7	7	13.2	6.9-16.9	TL	6	6	11.6	7.0-16.0	TL	4.1
CERATYSCOPELUS WAMMINGI						1	1	5.4		SL	0.3
UROPHYCIS SP.	23	24	3.5	2.1- 4.1	NL	118	21	4.3	2.9- 9.5	NL	46.2
SCOMBEROMORUS CAVALLA	1	1	6.0		SL						0.3
BCTHUS OCELLATUS	2	2	6.3	6.0- 6.5	SL						0.7
CITHARICHTHYS ARCTIFRONS	14	13	5.2	4.0- 6.8	SL	13	14	5.4	3.7- 7.9	SL	8.5
ETROPUS MICROSTOMUS	24	24	6.0	3.7- 7.3	SL	6	6	5.4	3.4- 8.0	SL	9.2
SYACIUM PAPILLOSUM	6	6	5.8	4.2- 8.6	SL	2	2	4.7	4.6- 4.8	SL	2.5
GLYPTOCEPHALUS CYMNGLOSSUS						2	2	30.7	29.8-31.5	SL	0.7
SYMPHURUS SP.	3	3	7.3	5.3-11.1	SL	2	2	5.5	9.2- 9.7	SL	1.6
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.					CYCLOTHONE SP.					
	SYNDONOTIDAE					LOPHIIFORMES					
	BREGMACEROTIDAE					OPHIDIIDAE					
	OPHIDIIDAE					SERRANIDAE					
	SERRANIDAE					GOBIIDAE					
	GOBIIDAE					TRIGLIDAE					
	TRIGLIDAE					UNIDENTIFIED					
	UNIDENTIFIED										
.....											
K 7 30 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ANCHOA HEPSETUS	4	4	17.2	16.5-18.2	TL	1	1	15.8		TL	1.5
ENGRAULIS EURYSTOLE	6	6	20.3	19.3-21.5	TL						2.0
DIAPHUS SP.						1	1	4.4		SL	0.3
UROPHYCIS SP.						5	4	3.7	2.0- 5.2	NL	1.7
MERLUCCIIUS BILINEARIS	1	1	11.0		NL						0.3
MICROPOGON UNULATUS	1	1	4.2		SL						0.3
BCTHUS OCELLATUS	4	4	4.5	3.8- 5.4	SL						1.3
CITHARICHTHYS ARCTIFRONS						1	1	3.8		SL	0.3
SYACIUM PAPILLOSUM	4	3	4.4	4.1- 4.8	SL						1.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.					SYNDONOTIDAE					
	SYNDONOTIDAE					CARAPIDAE					
	CARAPIDAE					GOBIIDAE					
	GOBIIDAE					TETRAODONTIDAE					
	UNIDENTIFIED					UNIDENTIFIED					
.....											
L 1 30 09	SAMPLING DEPTH 0-6M										
MICROPOGON UNULATUS	4	4	4.6	3.4- 6.1	SL						0.5
SYMPHURUS SP.	1	1	6.8		SL						0.1
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE										
	UNIDENTIFIED										
.....											
L 2 30 09	SAMPLING DEPTH 0-6M										
ANCHOA HEPSETUS	7	7	6.9	3.0-12.2	TL						0.8
LARIMUS FASCIATUS	3	3	2.7	2.0- 3.2	SL						0.4
MICROPOGON UNULATUS	28	28	3.5	2.6- 4.4	SL						3.4
ETROPUS MICROSTOMUS	1	1	2.9		SL						0.1
SYACIUM PAPILLOSUM	1										0.1
SYMPHURUS SP.	2	2	4.7	3.9- 5.4	SL						0.2
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....											
L 3 30 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
OPHICHTHUS GOMESI						2	2	56.2	44.9-67.5	TL	0.3
ANCHOA HEPSETUS	140	53	7.8	3.1-17.2	TL	150	47	10.0	4.9-20.0	TL	67.2
CERATYSCOPELUS WAMMINGI						2	2	6.0	5.0- 7.1	SL	0.3
DIAPHUS SP.	1	1	12.9		SL						0.3
NCTOLYCHNUS VALDIVAE						2	2	5.5	5.6- 6.2	SL	0.3
UROPHYCIS SP.	1	1	4.2		NL	2	2	5.1	4.7- 5.5	NL	0.6
HENANTHIA S. VI VANUS	1	1	4.7		SL						0.3
LARIMUS FASCIATUS	1	1	3.2		SL	1	1	3.7		SL	0.5
MICROPOGON UNULATUS	22	22	3.3	2.8- 5.0	SL	78	77	3.3	2.7- 5.0	SL	19.4
SCOMBEROMORUS CAVALLA						1	1	11.1		SL	0.2
PRICNOTUS CAROLINUS						1	1	6.3		SL	0.2
BCTHUS OCELLATUS	1	1	4.7		SL	4	4	5.8	7.4-14.4	SL	1.0
ETROPUS MICROSTOMUS	40	37	3.8	3.1- 4.8	SL	129	26	5.2	3.3- 7.6	SL	23.1
SYACIUM PAPILLOSUM	2	2	7.8	6.0- 9.6	SL	10	10	7.2	4.5-13.3	SL	2.2
SYMPHURUS SP.	3	3	6.8	4.1-12.1	SL	13	12	6.5	5.0-13.1	SL	3.0
ADDITIONAL LARVAE CAUGHT	SYNDONOTIDAE					SYNDONOTIDAE					
	OPHIDIIDAE					LOPHIIFORMES					
	SERRANIDAE					BREGMACEROTIDAE					
	PRIACANTHIDAE					OPHIDIIDAE					
	BLENNIIDAE					SERRANIDAE					
	CALLIONYMIDAE					SCIAENIDAE					
	GOBIIDAE					URANOSCOPIDAE					
	TRIGLIDAE					BLENNIIDAE					
						CALLIONYMIDAE					
						GOBIIDAE					
						SCORPAENIDAE					
						TRIGLIDAE					
						BALISTIDAE					
						UNIDENTIFIED					

TABLE 3. (continued)

CRUISE DATE D6612 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE
	NUMBER	LENGTHS (MM)	TOTAL MEAS.	RANGE		NUMBER	LENGTHS (MM)	TOTAL MEAS.	RANGE	
L 4 30 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M				
ANCHOA HEPSETUS	7	6	8.4	6.4-12.0 TL						2.3
ENGFAULIS EURYSTOLE	6	6	7.9	6.8-9.1 TL		8	8	7.9	4.7-12.6 TL	4.5
CERATOSCOPELUS MADRINGERI						1	1	5.0	SL	0.3
DIAPHUS SP.	1	1	11.2		SL	1	1	5.0	SL	0.6
UFROPHYS SP.						2	2	3.4	3.2-3.6 ML	0.7
HEMANTHIA S. VI VANUS	1	1	6.6		SL					0.3
MICROPOGON UNULATUS						1	1	3.4	SL	0.3
ALIXIS SP.	1	1	7.7		SL					0.3
BETHUS OCELLATUS	14	14	7.0	4.2-9.8 SL		1	1	7.7	SL	4.7
SCOPHTHALMUS AQUOSUS	1	1	3.3		SL					0.3
SYACIUM PAPILLOSUM	6	6	5.5	4.8-7.2 SL						2.0
SYMPHURUS SP.	3	3	12.4	6.6-16.8 SL		2	2	5.7	4.8-6.6 SL	1.6
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					OPHICHTHIDAE				
	SYNOGONTIDAE					SYNOGONTIDAE				
	LOPHIIFORMES					LOPHIIFORMES				
	OPHIDIIDAE					OPHIDIIDAE				
	SERRANIDAE					SERRANIDAE				
	CARANGIDAE					LABRIDAE OR SCARIDAE				
	MUGILIDAE					GOBIIDAE				
	GOBIIDAE					UNIDENTIFIED				
	TRIGLIDAE									
	UNIDENTIFIED									
.....										
L 5 30 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M				
ANCHOA HEPSETUS	3	3	13.0	11.3-16.2 TL						1.0
CERATOSCOPELUS MADRINGERI	1	1	8.9		SL					0.3
DIAPHUS SP.	1	1	5.0		SL	1	1	6.2	SL	0.6
HEMANTHIA S. VI VANUS						1	1	5.6	SL	0.3
BETHUS OCELLATUS	7	7	4.8	3.9-5.8 SL		16	16	4.9	3.5-8.3 SL	7.4
SYACIUM PAPILLOSUM	14	14	4.9	3.5-8.5 SL		12	12	5.2	3.2-7.3 SL	8.2
SYMPHURUS SP.	1	1	5.7		SL	1	1	13.2	SL	0.6
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.					CYCLOTHONE SP.				
	SYNOGONTIDAE					SYNOGONTIDAE				
	SERRANIDAE					PARALEPIDIDAE				
	APOGONIDAE					LOPHIIFORMES				
	CARANGIDAE					SERRANIDAE				
	LABRIDAE OR SCARIDAE					APOGONIDAE				
	GOBIIDAE					MALACANTHUS SP.				
	SCORPAENIDAE					LABRIDAE OR SCARIDAE				
	TETRAODONTIDAE					MUGILIDAE				
	UNIDENTIFIED					GOBIIDAE				
						SCORPAENIDAE				
						UNIDENTIFIED				
.....										
M 1 28 09	SAMPLING DEPTH 0-6M									
ANCHOA HEPSETUS	2	2	8.3	8.2-8.5 TL						0.2
ENGFAULIS EURYSTOLE	4	3	6.1	5.4-6.5 TL						0.5
MICROPOGON UNULATUS	10	10	4.3	3.6-5.1 SL						1.2
PEPILUS TRIACANTHUS	1	1	3.3		SL					0.1
PRIONOTUS CAROLINUS	3	3	6.0	5.0-6.9 SL						0.4
CYCLOPSETTA FIMBRIATA	2	2	7.2	4.7-9.6 SL						0.2
ETREPIUS MICROSTOMUS	2	2	3.9	3.6-4.1 SL						0.2
SYMPHURUS SP.	3	3	10.5	5.0-13.5 SL						0.4
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE									
	CYCLOTHONE SP.									
	SYNOGONTIDAE									
	OPHIDIIDAE									
	SYNGNATHIDAE									
	BLENNIIDAE									
	BALISTIDAE									
	TETRAODONTIDAE									
.....										
M 2 28 09	SAMPLING DEPTH 0-6M									
ANCHOA HEPSETUS	17	16	7.5	4.7-11.7 TL						2.1
ENGFAULIS EURYSTOLE	90	36	6.2	3.9-9.2 TL						10.9
BENINOSOMA SUBORBITALE	1	1	10.0		SL					0.1
MICROPOGON UNULATUS	3	3	4.8	3.6-7.1 SL						0.4
PEPILUS TRIACANTHUS	2	2	3.3	3.0-3.6 SL						0.2
PRIONOTUS CAROLINUS	1	1	4.0		SL					0.1
BETHUS OCELLATUS	1	1	5.2		SL					0.1
ETREPIUS MICROSTOMUS	6	6	4.6	4.0-6.9 SL						0.7
SYACIUM PAPILLOSUM	2	2	5.6	5.4-5.7 SL						0.2
SYMPHURUS SP.	4	4	4.7	3.7-7.2 SL						0.5
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE									
	BALISTIDAE									
	UNIDENTIFIED									

TABLE 3. (continued)

CRUISE DATE 06612 1966 STA. D M SPECIES ANALYZED # 3 28 09	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.	
OPHICHTHUS GOMESI	2	2	44.1	43.0-45.2	TL					0.6
ANCHYA HEPSETUS	266	49	9.2	4.3-17.8	TL					10.6
ENGRAULIS EURYSTOMAE	64	34	7.7	4.4-14.0	TL					19.4
CERATOSCOPELUS MADRENSIS	1	1	4.7		SL					0.3
DIAPHUS SP.	3	3	4.8	4.3- 5.3	SL					0.9
HEMANTHIAS VIWANUS	2	2	4.2	3.9- 4.6	SL					0.6
LARIMUS FASCIATUS	6	6	3.6	2.7- 5.4	SL					1.8
MICROPOGON UNICULATUS	165	162	3.6	2.7- 4.6	SL					50.0
ALXIS SP.	1	1	11.3		SL					0.3
SCOPHECOMORUS CAVALIA	3	3	11.0	8.9-12.5	SL					0.9
PRIONOTUS CAROLINIUS	1	1	3.6		SL					0.3
BCTHUS OCCELLATUS	5	5	5.1	4.2- 6.7	SL					1.5
CYCLOPSETTA FIMBRIATA	2	2	5.7	5.5- 5.8	SL					0.6
ETPCPUS MICROSTOMUS	50	25	5.8	4.1- 8.9	SL					15.2
SYACIUM PAPILLOSUM	33	32	5.3	3.3-11.2	SL					10.0
SYMPHURUS SP.	12	10	8.5	5.9-12.1	SL					3.6

ADDITIONAL LARVAE CAUGHT
 SYNODONTIDAE
 CPYDIDIIDAE
 SERRANICAE
 CARANGICAE
 SCIAENICAE
 SPHYRAENICAE
 URANSOFCICAE
 BLENNIIDAE
 CALLIONYMICAE
 GOBIIDAE
 TRIGLIDAE
 BALISTICAE
 UNIDENTIFIED

M 4 28 09	SAMPLING DEPTH 0-15M				NO. EGGS	NO. PER 10M ² LARVAE
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
ANCHYA HEPSETUS	236	40	7.5	4.7-16.0	TL	71.5
ENGRAULIS EURYSTOMAE	8	8	9.7	3.9-16.5	TL	2.4
CERATOSCOPELUS MADRENSIS	1	1	9.4		SL	0.3
DIAPHUS SP.	1	1	6.3		SL	0.3
LAMPANCTUS ALATUS OR PHOTONOTUS	1	1	7.6		SL	0.3
MICROPOGON UNICULATUS	29	29	3.5	2.5- 4.4	SL	8.8
ALXIS SP.	2	2	5.3	4.2- 6.5	SL	0.6
EUTHYNNUS ALLETTIATUS	1	1	6.4		SL	0.3
SCOPHECOMORUS CAVALIA	9	9	6.6	5.1-11.4	SL	2.7
PRIONOTUS CAROLINIUS	4	4	5.4	4.8- 5.8	SL	1.2
BCTHUS OCCELLATUS	6	6	4.6	2.7- 7.7	SL	1.8
CYCLOPSETTA FIMBRIATA	2	2	7.7	6.6- 8.7	SL	0.6
SYACIUM PAPILLOSUM	34	33	5.2	2.6-11.7	SL	10.3
SYMPHURUS SP.	1	1	4.3		SL	0.3

ADDITIONAL LARVAE CAUGHT
 MURAENICAE
 OPHICHTHICAE
 SERRIVMERIDAE
 CYCLOTHICAE SP.
 SYNODONTIDAE
 LOPHIICHTHES
 BREGMACEROTIDAE
 CPYDIDIIDAE
 SERRANICAE
 CARANGICAE
 LABRIDAE OR SCARIDAE
 SPHYRAENICAE
 URANSOFCICAE
 BLENNIIDAE
 CALLIONYMICAE
 GOBIIDAE
 TRIGLIDAE
 UNIDENTIFIED

TABLE 3. (continued)

136

CRUISE DATE 06612 1966 STA. D M SPECIES ANALYZED N 5 29 09	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE 0-15M				NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE 18-33M				
MYRICHTHYS SP.						1	1	51.0	TL		0.3
OPHICHTHUS GOMESI	1	1	65.0	TL							0.3
SARINELLA ANCHOVIA	2	2	11.0	10.7-11.4	TL	4	4	13.5	10.7-16.4	TL	1.9
ANCHOA HEPSETUS	4	4	11.3	6.9-15.5	TL	523	66	7.9	3.0-16.4	TL	175.5
ENGRAULIS EURYSTOLE	57	30	6.8	3.1-9.2	TL						19.0
CERATOSCOPELUS MANESENSIS	2	2	6.3	6.2-6.4	SL	3	3	5.7	5.5-5.8	SL	1.6
CERATOSCOPELUS WARMINGI						1	1	4.9		SL	0.3
DIAPHUS SP.						1	1	7.0		SL	0.3
LAMPANYCTUS MOBILIS						2	2	11.1	9.4-12.8	SL	0.7
HEMANTHIS VIVANUS						6	5	4.4	3.0-4.8	SL	2.0
LARIMUS FASCIATUS						1	1	3.3		SL	0.3
MICROPOGON UNDULATUS	5	5	3.3	2.8-3.7	SL	6	6	2.8	3.4-4.0	SL	3.5
AUXIS SP.	1	1	5.5		SL	2	2	6.9	4.1-9.7	SL	1.0
ELTHYNNUS ALLETTERATUS						1	1	5.7		SL	0.3
SCOMBEROMORUS CAVALLA						16	16	7.0	4.4-10.8	SL	5.3
THUANUS ALBACARES OF ALALUNGA	1	1	5.6		SL						0.3
PRIONOTUS CARLINIUS	2	2	6.2	4.8-7.7	SL	3	3	4.4	3.5-4.8	SL	1.6
BCTHUS OCELLATUS	10	10	9.0	3.2-14.6	SL	36	25	5.3	2.7-8.1	SL	15.0
CYCLOPSETTA FIMBRIATA	1	1	3.7		SL	6	5	4.9	3.2-7.2	SL	2.3
ETROPUS MICROSTOMUS						2	2	3.2	2.7-3.6	SL	0.7
SYACIUM PAPILLOSUM	11	11	4.5	2.7-7.2	SL	98	25	5.0	3.0-8.9	SL	36.0
SYMPHURUS SP.						6	6	8.7	5.0-11.5	SL	2.0
ADDITIONAL LARVAE CAUGHT	SYNDONTIDAE					MURAENIDAE					
	CPHIDIIDAE					NETTASTOMATIDAE					
	ATHERINIDAE					CYCLOTHONE SP.					
	SERRANIDAE					SYNDONTIDAE					
	CARANGIDAE					PARALEPTIDAE					
	GOBIIDAE					LOPHIIFORMES					
	TRIGLIDAE					OPHIDIIDAE					
	UNIDENTIFIED					SERRANIDAE					
						APOGONIDAE					
						CARANGIDAE					
						LABRIDAE OR SCARIDAE					
						SPHYRAENIDAE					
						URANOSCOPIIDAE					
						BLENNIIDAE					
						CALLIONYMIDAE					
						GOBIIDAE					
						TRICHIURIDAE					
						SCORPAENIDAE					
						TRIGLIDAE					
						BALISTIDAE					
						TETRAODONTIDAE					
						UNIDENTIFIED					
.....											
N 1 29 09	SAMPLING DEPTH 0-6M										
OPHICHTHUS GOMESI	1	1	79.7	TL							0.1
ANCHOA HEPSETUS	84	46	8.3	4.4-20.1	TL						10.2
LARIMUS FASCIATUS	2	2	5.8	5.7-6.0	SL						0.2
MICROPOGON UNDULATUS	17	17	3.3	2.5-4.0	SL						2.1
PRIONOTUS CARLINIUS	5	5	7.0	5.8-7.8	SL						0.6
SYACIUM PAPILLOSUM	1	1	11.7		SL						0.1
ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE					MURAENIDAE					
	URANOSCOPIIDAE					NETTASTOMATIDAE					
	TRIGLIDAE					CYCLOTHONE SP.					
.....											
N 2 29 09	SAMPLING DEPTH 0-15M										
ANCHOA HEPSETUS	17	17	8.1	5.1-13.7	TL						5.2
LAMPANYCTUS ATER	1	1	9.2		SL						0.3
MICROPOGON UNDULATUS	2	2	4.2	4.2-4.3	SL						0.6
EUTHYNNUS ALLETTERATUS	3	3	6.0	4.3-8.1	SL						0.9
SCOMBEROMORUS CAVALLA	1	1	7.2		SL						0.3
BCTHUS OCELLATUS	1	1	6.8		SL						0.3
SYACIUM PAPILLOSUM	3	3	5.5	4.7-6.2	SL						0.9
SYMPHURUS SP.	1	1	5.4		SL						0.3
ADDITIONAL LARVAE CAUGHT	MURAENIDAE					MURAENIDAE					
	SYNDONTIDAE					SYNDONTIDAE					
	PARALEPTIDAE					PARALEPTIDAE					
	LOPHIIFORMES					LOPHIIFORMES					
	CPHIDIIDAE					CPHIDIIDAE					
	SERRANIDAE					SERRANIDAE					
	CARANGIDAE					CARANGIDAE					
	URANOSCOPIIDAE					URANOSCOPIIDAE					
	CALLIONYMIDAE					CALLIONYMIDAE					
	GOBIIDAE					GOBIIDAE					
	TRICHIURIDAE					TRICHIURIDAE					
	TRIGLIDAE					TRIGLIDAE					
	BALISTIDAE					BALISTIDAE					
	TETRAODONTIDAE					TETRAODONTIDAE					
	UNIDENTIFIED					UNIDENTIFIED					

TABLE 3. (continued)

CRUISE DATE D661Z 1966 STA. D M N 3	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10 M ² LARVAE	EGGS
		NUMBER	LENGTHS (MM)	TOTAL MEAS.	RANGE MEAS.		NUMBER	LENGTHS (MM)	TOTAL MEAS.	RANGE MEAS.		
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M					
	APTERICHTHUS KENDALLI	1	1	55.5	TL						0.3	
	MYRICHTHYS SP.	1	1	55.5	NL						0.3	
	OPHICHTHUS GCMESI	1	1	65.3	TL						0.3	
	ANCHOA HEPSETUS	112	53	8.9	4.0-17.8 TL						23.9	
	LARIMUS FASCIATUS	3	3	3.5	3.2- 3.7 SL						0.9	
	MICROPOGON UNULATUS	21	21	4.0	3.2- 4.6 SL						6.4	
	SCOMBEROMORUS CAVALLA	1	1	5.0	SL						0.3	
	PRIONOTUS CAROLINUS	3	3	4.5	4.3- 4.7 SL						0.9	
	BCTHUS OCELLATUS	2	2	5.1	5.0- 5.1 SL						0.6	
	CYCLOPSETTA FIMBRIATA	1	1	4.5	SL						0.3	
	SYACIUM PAPILLOSUM	12	12	4.9	2.2-13.2 SL						3.6	
	ADDITIONAL LARVAE CAUGHT	ANGUILLIFORMES					ANGUILLIFORMES					
		SYNOBONTICAE					SYNOBONTICAE					
		LOPHIIFORMES					LOPHIIFORMES					
		OPHIDIICAE					OPHIDIICAE					
		CARAPIDAE					CARAPIDAE					
		SERRANICAE					SERRANICAE					
		CARANGICAE					CARANGICAE					
		LABRIDAE OR SCARIDAE					LABRIDAE OR SCARIDAE					
		BLENNIICAE					BLENNIICAE					
		CALLIONYMICAE					CALLIONYMICAE					
		GOBIIDAE					GOBIIDAE					
		TRICHIURIDAE					TRICHIURIDAE					
		TRIGLICAE					TRIGLICAE					
		BALISTIDAE					BALISTIDAE					
		UNIDENTIFIED					UNIDENTIFIED					
.....												
N 4	29 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
	ANCHOA HEPSETUS	4	4	10.9	8.5-12.5 TL		21	18	8.9	4.5-16.5 TL		8.2
	MYCTOPHIDAE						2	2	4.3	3.7- 5.0 SL		0.7
	BENTHOSEMA SUBORBITALE						1	1	5.6	SL		0.3
	DJAPHYS SP.						5	5	5.5	4.1- 8.5 SL		1.7
	HYGPHUM REINHARDTI						1	1	6.3	SL		0.3
	HEMANTHIA S. VIANUS						1	1	4.1	SL		0.3
	MICROPOGON UNULATUS						3	3	4.1	3.7- 4.3 SL		1.0
	SCOMBEROMORUS CAVALLA	3	3	8.3	7.9- 8.5 SL							1.0
	PRIONOTUS CAROLINUS						4	4	4.5	4.4- 4.6 SL		1.3
	BCTHUS OCELLATUS	12	11	5.1	3.9- 6.8 SL		12	10	5.0	2.6- 8.3 SL		7.6
	CYCLOPSETTA FIMBRIATA						2	1	7.2	SL		0.7
	SYACIUM PAPILLOSUM	8	7	7.2	5.2-11.7 SL		30	20	5.4	2.7-10.3 SL		12.4
	SYMPHURUS SP.	4	4	8.6	7.2-10.8 SL		8	7	8.8	6.3-11.4 SL		3.9
	ADDITIONAL LARVAE CAUGHT	MURAENIDAE					OPHICHTHICAE					
		SYNOBONTICAE					SYNOBONTICAE					
		LOPHIIFORMES					PARALEPIDICAE					
		SERRANICAE					LOPHIIFORMES					
		APOGONICAE					OPHIDIIDAE					
		CARANGICAE					CARAPIDAE					
		SPARIDAE					SERRANIDAE					
		POMACENTRIDAE					CARANGIDAE					
		LABRIDAE OR SCARIDAE					LABRIDAE OR SCARIDAE					
		GOBIIDAE					CALLIONYMIDAE					
		BALISTICAE					GOBIIDAE					
		TETRAODONTICAE					SCORPAENICAE					
							TRIGLICAE					
							BALISTIDAE					
							TETRAODONTICAE					
							UNIDENTIFIED					

TABLE 3. (continued)

138

CRUISE DATE D6612 1966 STA. 0 M SPECIES ANALYZED N 5 29 09	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10M LARVAE	2 EGGS
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN 0-15M	RANGE	MEAS.		NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN 18-33M	RANGE	MEAS.			
OPHICHTHUS GOMESI	3	3	31.7	23.0-44.0	TL	1	1	34.6		TL	1.2	
OPHICHTHUS OCCELLATUS	1	1	43.6		TL	1	1	17.0		TL	0.6	
ANCHOA HEPSETUS	11	11	6.7	4.5- 9.7	TL	3	2	5.8	5.8- 5.8	TL	4.3	
MYCTOPHIDAE	1	1	2.9		SL	1	1	4.0		SL	0.6	
BENTHOSFMA SUBORBITALE						3	3	4.6	3.9- 5.1	SL	1.0	
CERATOSCOPELUS NADEFEASIS	1	1	8.4		SL						0.3	
CERATOSCOPELUS WARMINGI	1	1	8.4		SL	1	1	5.4		SL	0.6	
DIARRHUS SP.	2	2	8.1	7.1- 9.2	SL						0.7	
ELECTRONA RISSII						1	1	4.2		SL	0.3	
LAMPANYCTUS ALATUS OR PHOTONOTUS						2	2	6.5	6.5- 6.6	SL	0.7	
LAMPANYCTUS CUPRINUS						3	3	7.3	6.3- 8.2	SL	1.0	
MYCTOPHUM AFFINE						1	1	6.9		SL	0.3	
MYCTOPHUM SELBNOPS						1	1	7.4		SL	0.3	
HEMANTHIA SIVANUS	8	6	4.5	3.2- 5.8	SL	3	3	5.6	5.5- 5.8	SL	3.4	
AUXIS SP.	1	1	6.7		SL						0.3	
SCOMBROCORUS CAVALLA	2	2	7.7	5.4-10.1	SL						0.7	
BCTHUS OCCELLATUS	48	25	4.3	2.4- 7.7	SL	5	4	8.0	4.2-14.4	SL	16.1	
CYCLOPSETTA FIMBRIFATA	3	3	5.4	4.6- 6.8	SL						1.0	
SYACIUM PAPILLOSUM	117	25	3.8	2.4- 7.7	SL	23	21	6.1	2.7-12.7	SL	42.8	
SYMPHYRUS SP.	19	18	4.1	2.9- 8.4	SL	14	13	5.2	3.3- 9.4	SL	10.4	
ADDITIONAL LARVAE CAUGHT	ANGUILLIFORMES					ANGUILLA ROSTRATA						
	MURAENIDAE					CONGRIDAE						
	CYCLOPOCNE SP.					SYNGNATHIDAE						
	SYNGNATHIDAE					PARALEPIDICAE						
	LOPHIIFORMES					LOPHIIFORMES						
	BREGMACEROTIDAE					BREGMACEROTIDAE						
	OPHIDIIDAE					OPHIDIIDAE						
	CARAPIDAE					CARAPIDAE						
	FI STULAFIICAE					SERRANIDAE						
	SERRANIDAE					GRAMMISTIDAE						
	GRAMMISTIDAE					POMACENTRIDAE						
	PRIACANTHIDAE					LABRIDAE OR SCARIDAE						
	APOGONICAE					MUGILIDAE						
	CHAETOCANTHIDAE					CALLIONYMIDAE						
	LABRIDAE OR SCARIDAE					GOBIIDAE						
	CALLIONYMICAE					ACANTHURIDAE						
	TRICHLIRIDAE					GEMPYLIDAE						
	SCORPAENICAE					SCORPAENICAE						
	TRIGLIDAE					TRIGLIDAE						
	BALISTICAE					BALISTICAE						
	UNIDENTIFIED					UNIDENTIFIED						
.....												
P 1 20 10	SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS	1	1	10.3		TL						0.1	
MICROPOGON UNDULATUS	7	6	4.6	3.8- 5.7	SL						0.8	
ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE											
	ATHERINICAE											
	URANOSCOPICAE											
	BLENNIICAE											
	TRIGLIDAE											
	UNIDENTIFIED											
.....												
P 2 20 10	SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS	2	2	31.1	30.0-32.2	TL						0.2	
MICROPOGON UNDULATUS	29	26	6.2	4.1- 9.2	SL						3.5	
PRIONOTUS CAROLINUS	7	7	6.9	5.9- 7.9	SL						0.8	
ETREPOS MICROSTOMUS	2	2	5.0	3.7- 6.3	SL						0.2	
ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE											
	SYNGNATHIDAE											
	SPARIDAE											
	BLENNIICAE											
	TRIGLIDAE											
	UNIDENTIFIED											
.....												
P 3 20 10	SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS	3	3	15.2	9.3-18.8	TL						0.4	
LARINUS FASCIATUS	1	1	5.7		SL						0.1	
MICROPOGON UNDULATUS	6	4	5.0	4.1- 5.8	SL						0.7	
PRIONOTUS CAROLINUS	8	8	7.3	5.2- 8.1	SL						1.0	
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE											
	SYNGNATHIDAE											
	URANOSCOPICAE											
	BLENNIICAE											
	CALLIONYMICAE											
	GOBIIDAE											
	TRIGLIDAE											
	UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE 0612 1966 STA. D 4 F 4 20 10	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE C-15M		NO. EGGS		NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE 18-24M		NO. EGGS			
ELOFS SAURUS	1	1	26.5		NL						0.3	
CALFICHELYS PERRYAE	2	2	36.7	33.0-40.5	NL						0.6	
MYRICHTHYS SP.	2	2	42.6	42.2-43.0	TL						0.6	
MYRORHIS PUNCTATUS	2	2	36.7	33.0-40.5	TL						0.6	
OPHICHTHUS GYMES	4	4	58.5	41.5-74.5	TL						1.3	
ENGRAULIS EURYSTOME	14	14	15.6	6.0-27.9	TL						4.5	
LAFIUMUS FASCITATUS						1	1	3.9		SL		0.2
PETENITUS CARLINUS	3	3	5.8	5.1-6.5	SL						1.0	
ROTHUS OCELLATUS	11	10	11.6	5.9-17.5	SL	3	3	4.6	3.6-5.9	SL		3.9
CYCLOPSETTA FIMBRIATA	1	1	4.7		SL							0.3
ETREPIUS MICROSTOMUS	1	1	7.2		SL							0.3
SYACIUM PAPILLOSUM	18	18	10.1	6.3-13.5	SL	2	1	9.1		SL		5.8
SYMFHURUS SP.	1											0.3
ADDITIONAL LARVAE CAUGHT	MURAENIDAE CYCLOTORONE SP. VINCIGUERRIA SP. SYNOONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIDIIDAE CARANGIDAE FISTULARIIDAE SYNGNATHIDAE SERRANIDAE APOGONIDAE CARANGIDAE LABRIDAE OR SCARIDAE URANOSCOPIDAE BLENNIIDAE CALLIONYMIIDAE GOBIIDAE TRIGLICAE TETRAODONTIDAE UNIDENTIFIED					CONGRIDAE SYNOONTIDAE BREGMACEROTIDAE OPHIDIIDAE CALLIONYMIIDAE GOBIIDAE TRIGLICAE UNIDENTIFIED						
.....												
F 5 20 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENGRAULIS EURYSTOME	7	2	12.1	5.6-18.6	TL	2	2	13.5	5.8-21.2	TL		2.8
CERATOSCOPELUS MADERENSIS	1	1	6.4		SL							0.3
CERATOSCOPELUS MARMINI	1	1	8.3		SL							0.3
DIAPHUS SP.	8	8	6.1	4.1-8.8	SL	8	6	5.6	4.3-7.1	SL		5.1
URCAPHYS SP.	1	1	3.5		NL							0.3
HEMANTHIS VIWANUS	9	7	6.3	4.7-7.9	SL	5	3	4.6	3.7-5.2	SL		4.4
MICROPYGON UNOULATUS						1	1	4.3		SL		0.3
ALXIS SP.	1	1	9.0		SL							0.3
ROTHUS OCELLATUS	52	22	6.4	3.1-11.1	SL	24	16	5.4	4.2-6.5	SL		23.6
CYCLOPSETTA FIMBRIATA	2	1	5.9		SL							0.7
ETREPIUS MICROSTOMUS						1	1	5.0		SL		0.3
SYACIUM PAPILLOSUM	41	40	5.7	3.4-12.3	SL	8	7	5.6	2.4-9.3	SL		15.0
SYMFHURUS SP.	5	3	9.3	4.1-12.5	SL	3	3	5.5	3.5-8.2	SL		2.5
ADDITIONAL LARVAE CAUGHT	MURAENIDAE CYCLOTORONE SP. SYNOONTIDAE LOPHIIFORMES OPHIDIIDAE CARANGIDAE CAPROIDAE SERRANIDAE APOGONIDAE CARANGIDAE POMACENTRIDAE LABRIDAE OR SCARIDAE SPHYRAENIDAE CALLIONYMIIDAE GOBIIDAE TRICHIURIDAE TRIGLICAE BALISTIDAE UNIDENTIFIED					SYNOONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIDIIDAE CARANGIDAE SERRANIDAE LABRIDAE OR SCARIDAE BLENNIIDAE CALLIONYMIIDAE GOBIIDAE UNIDENTIFIED						

TABLE 3. (continued)

140

CRUISE DATE D6614 1566 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	Z EGGS	
	NUMBER	LENGTHS (MM)	NO.	TOTAL MEAS.	RANGE MEAS.	NUMBER	LENGTHS (MM)	NO.	TOTAL MEAS.	RANGE MEAS.			EGGS
A 1 C4 12	SAMPLING DEPTH 0-3M												
CLUPEA HARENGUS HARENGUS	27	23	20.8	10.4-25.0	TL							1.6	
GADUS MORHUA	2	2	4.9	4.6-5.2	SL						1	0.1	0.1
MERLUCCIIUS BILINEARIS	2	1	6.5		NL						0	0.1	0.0
AMMODYTES SP.	11	11	5.7	5.1-6.2	TL							0.7	
PARALICHTHYS DENTATUS	3	3	7.9	5.0-11.5	SL						0	0.2	0.0
A 2 04 12	SAMPLING DEPTH 0-15M												
CLUPEA HARENGUS HARENGUS	5	5	14.3	8.1-22.5	TL							1.5	
GADUS MORHUA	2	2	4.0	3.5-4.4	SL						0	0.6	0.0
MERLUCCIIUS BILINEARIS	2	2	5.6	5.4-5.8	NL						0	0.6	0.0
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE													
SPARIDAE													
A 3 04 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS	5	5	21.4	18.8-24.4	TL	9	5	21.2	17.4-24.7	TL		3.0	
ENCHELIOPOUS CIMBRIUS						3	3	4.3	3.8-4.6	SL	0	0.5	0.0
GADUS MORHUA	8	8	4.1	3.7-4.4	SL	73	6	4.3	3.7-5.4	SL	85	3.4	36.2
MERLUCCIIUS BILINEARIS	2	2	5.9	5.9-6.0	NL	0	1	3.1		NL	0	0.8	0.0
PARALICHTHYS DENTATUS	1	1	7.0		SL	0					0	0.3	0.0
ADDITIONAL LARVAE CAUGHT SPARIDAE													
A 4 04 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS	17	17	17.6	13.7-24.4	TL	19	19	17.5	14.4-22.5	TL		8.3	
ENCHELIOPOUS CIMBRIUS	1	1	3.9		SL	7	7	3.8	3.2-4.7	SL	0	1.5	0.0
GADUS MORHUA						2	2	4.6	2.9-6.2	SL	0	0.3	0.0
UROPHYCIS SP.						1	1	4.4		NL		0.2	
MERLUCCIIUS BILINEARIS	5	5	5.4	4.9-5.7	NL	0	6	5.0	4.2-6.4	NL	0	2.5	0.0
PARALICHTHYS DENTATUS	6	6	5.3	4.1-8.6	SL	0	15	4.5	3.3-6.8	SL	0	4.3	0.0
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
A 5 04 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	23	23	16.4	10.6-21.5	TL	28	28	16.2	11.2-15.6	TL		16.2	
ENCHELIOPOUS CIMBRIUS	1	1	4.6		SL	0	2	3.9	3.9-3.9	SL	0	1.0	0.0
GADUS MORHUA	1	1	7.6		SL	0	2	5.1	4.2-5.9	SL	0	1.0	0.0
UROPHYCIS SP.	2	2	8.4	8.1-8.7	NL							0.7	
MERLUCCIIUS BILINEARIS						0	3	4.9	4.1-5.5	NL	0	1.0	0.0
PARALICHTHYS DENTATUS						0	1	5.9		SL	0	0.3	0.0
A 6 04 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	30	30	16.0	11.9-19.9	TL	41	41	16.3	11.9-22.5	TL		22.7	
ENCHELIOPOUS CIMBRIUS	1	1	6.1		SL	0					0	0.3	0.0
GADUS MORHUA	7	7	4.0	3.4-5.3	SL	1	6	3.7	3.2-4.1	SL	2	4.1	1.0
POLLACHIUS VIENSIS	4	4	6.0	5.1-6.6	SL	0	2	5.5	3.9-7.0	SL	0	1.9	0.0
MERLUCCIIUS BILINEARIS	3	3	6.3	6.0-6.6	NL	0	2	3.6	2.8-4.4	NL	0	1.6	0.0
A 7 04 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS						3	3	18.3	17.5-18.8	TL		1.0	
POLLACHIUS VIENSIS	1	1	9.1		SL	0					0	0.3	0.0
B 1 03 12	SAMPLING DEPTH 0-6M												
CLUPEA HARENGUS HARENGUS	6	6	15.8	8.4-22.5	TL							0.7	
ENCHELIOPOUS CIMBRIUS	2	2	2.9	1.9-3.8	SL	0						0.2	0.0
GADUS MORHUA	3	3	3.4	3.2-3.7	SL	16						0.4	1.5
MERLUCCIIUS BILINEARIS	1	1	6.1		NL	0						0.1	0.0
AMMODYTES SP.	41	41	5.2	4.4-6.9	TL							5.0	
PEPPIIUS TRIACANTHUS	1	1	70.1		SL							0.1	
PARALICHTHYS DENTATUS	2	2	10.3	7.9-12.8	SL	0						0.2	0.0
SCOPHTHALMUS AQUOSUS	3	3	6.0	4.9-7.7	SL							0.4	
B 2 03 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS	6	6	17.3	12.0-23.0	TL	5	9	18.1	11.4-24.4	TL		3.3	
ENCHELIOPOUS CIMBRIUS	1	1	5.6		SL	0	1	4.9		SL	0	0.5	0.0
GADUS MORHUA	8	7	4.2	3.4-5.3	SL	51	3	4.1	3.9-4.6	SL	62	2.9	25.7
POLLACHIUS VIENSIS	1	1	3.4		SL	0	1	4.2		SL	0	0.5	0.0
MERLUCCIIUS BILINEARIS	1	1	3.6		NL	0	2	5.6	3.0-8.2	NL	0	0.6	0.0
ETROPUS MICROSTOMUS	1	1	5.0		SL							0.3	
PARALICHTHYS DENTATUS						0	1	5.5		SL	0	0.2	0.0
SCOPHTHALMUS AQUOSUS	6	6	4.2	3.7-5.2	SL		1	3.9		SL		2.0	

TABLE 3. (continued)

CRUISE DATE P6614 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS	
	NUMBER	LENGTHS (MM)		NO.	EGGS	NUMBER	LENGTHS (MM)		NO.	EGGS			
	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.				
B 3 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	3	3	23.7	21.0-25.0	TL	5	5	21.0	18.0-23.9	TL		2.6	
ENCHELYOPLS CIMBRIUS	2	2	5.5	5.4- 5.6	SL						0	0.7	
GADUS MORHUA	10	9	4.4	3.9- 5.7	SL	59	9	4.4	3.8- 5.3	SL	45	6.0	
POLLACHIUS VIRENS	1	1	3.4		SL	0	1	3.5		SL	0	0.6	
UROPHYCIS SP.	1	1	3.7		NL	0	2	7.0	2.7-11.3	NL	0	1.0	
MERLUCCIIUS BILINEARIS	19	18	5.5	3.2- 7.2	NL	0	25	5.9	4.2- 7.6	NL	0	14.0	
AMMODYTES SP.	1	1	5.1		TL							0.3	
ETROPUS MICROSTOMUS							1	6.7		SL		0.3	
PARALICHTHYS CENTATUS	12	12	7.1	4.0-11.3	SL	0	21	6.2	3.6-10.1	SL	0	10.6	
SCOPHTHALMUS AQUOSUS	9	9	4.9	3.3- 7.1	SL		14	4.5	2.9- 6.9	SL		7.4	
B 4 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	15	15	18.7	15.0-22.5	TL		27	25	18.7	13.7-23.1	TL		13.5
ENCHELYOPLS CIMBRIUS	4	4	3.5	2.7- 4.6	SL	0	3	3	3.8	2.8- 5.1	SL	0	2.2
GADUS MORHUA						0						1	0.0
POLLACHIUS VIRENS	3	3	3.3	3.3- 3.4	SL	0	2	2	4.1	3.5- 4.6	SL	0	1.6
UROPHYCIS SP.							1	5.5		NL		0	0.3
MERLUCCIIUS BILINEARIS	4	4	4.1	2.9- 6.5	NL	0	5	5	8.7	4.5-23.2	NL	0	2.9
PARALICHTHYS CENTATUS	5	5	6.3	5.1- 7.5	SL	0	2	2	5.1	4.9- 5.4	SL	0	2.2
B 5 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	68	37	15.5	11.0-20.0	TL		109	48	14.9	12.0-20.0	TL		56.7
ENCHELYOPLS CIMBRIUS	1	1	4.2		SL	0					0	0.3	
POLLACHIUS VIRENS	1	1	3.9		SL	0	1	3.7		SL	0	0.6	
MERLUCCIIUS BILINEARIS	2	2	8.8	5.7-11.9	NL	0					0	0.7	
PARALICHTHYS CENTATUS	1	1	5.5		SL	0	1	6.3		SL	0	0.6	
B 6 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CALLECHELYS PERYAE							1	67.5		NL		0	0.3
MYRCPHIS RUNCTATUS							1	67.5		TL		0	0.3
CLUPEA HARENGUS HARENGUS	29	28	15.5	13.0-19.0	TL		35	34	15.6	13.0-20.0	TL		20.4
MERLUCCIIUS BILINEARIS	1	1	8.5		NL	0	1	6.5		NL	0	0.6	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE												0.0
B 7 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS	8	8	15.7	14.0-18.0	TL		18	17	16.1	12.0-20.0	TL		8.4
ENCHELYOPLS CIMBRIUS						1					0	0.0	
GADUS MORHUA						0	3	3	7.2	5.8- 8.1	SL	0	1.0
POLLACHIUS VIRENS	2	2	6.4	4.6- 8.2	SL	0	5	4	4.7	4.1- 5.1	SL	0	2.3
C 1 C3 12	SAMPLING DEPTH 0- 6M												
CLUPEA HARENGUS HARENGUS	2	2	7.0	1.5-12.5	TL							0.2	
GADUS MORHUA	1	1	3.5		SL	3						0.1	
UROPHYCIS SP.	2	2	5.5	5.5- 5.6	NL							0.2	
PARALICHTHYS CENTATUS	1	1	4.4		SL	0						0.1	
SCOPHTHALMUS AQUOSUS	4	4	5.2	4.4- 5.8	SL							0.5	
C 2 C3 12	SAMPLING DEPTH 0- 6M												
BREVOORTIA TYRANNUS	1	1	22.0		TL							0.1	
GADUS MORHUA	19	18	3.3	2.8- 3.7	SL	248						2.3	
UROPHYCIS SP.	2	2	6.3	6.0- 6.7	NL							0.2	
PRIONOTUS CARLINIUS	1	1	6.0		SL							0.1	
PARALICHTHYS CENTATUS	4	4	4.5	3.8- 6.0	SL	0						0.5	
SCOPHTHALMUS AQUOSUS	2	2	5.7	5.6- 5.7	SL							0.2	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												
C 3 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
BREVOORTIA TYRANNUS	1	1	21.5		TL							0.3	
CLUPEA HARENGUS HARENGUS	1	1	16.5		TL							0.3	
ENCHELYOPLS CIMBRIUS	1	1	14.7		SL	0						0.3	
GADUS MORHUA	6	5	3.0	2.8- 3.4	SL	56	2	1	3.5		46	2.2	
POLLACHIUS VIRENS	2	1	3.3		SL	0						0.6	
UROPHYCIS SP.							1	3.3		NL		0.2	
MERLUCCIIUS BILINEARIS						0	1	5.1		NL	0	0.2	
PARALICHTHYS CENTATUS	6	6	6.1	3.9- 8.7	SL	0	12	12	6.0	3.3- 9.3	SL	0	3.8
SCOPHTHALMUS AQUOSUS	2	2	7.0	6.5- 7.5	SL		8	8	5.0	4.0- 6.0	SL		1.9
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												
C 4 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCHELYOPLS CIMBRIUS	1	1	15.5		SL	0	1	4.4		SL	0	0.6	
GADUS MORHUA	4	4	3.8	3.5- 4.1	SL	5	1	2.3		SL	4	1.5	
UROPHYCIS SP.	1	1	6.8		NL		1	5.8		NL		0.6	
MERLUCCIIUS BILINEARIS	5	5	15.6	4.1-56.9	NL	0	8	5.0	3.6- 7.4	NL	0	4.2	
ETROPUS MICROSTOMUS	1	1	5.0		SL		1	4.6		SL		0.6	
PARALICHTHYS CENTATUS	7	7	6.5	4.4- 8.0	SL	0	10	10	7.2	3.3- 9.1	SL	0	5.4
SCOPHTHALMUS AQUOSUS	8	8	5.1	3.3- 6.9	SL		11	11	5.4	3.7- 7.3	SL		6.1

TABLE 3. (continued)

CRUISE DATE D6614 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE		
C 5 C2 12				0-15M	TL				18-33M			
CLUPEA HARENGUS HARENGUS	1	1	10.0		TL							0.3
ENGRAULIS EURYSTOLE	1	1	12.2		TL							0.3
GADUS MORHUA						1					0	0.0
UROPHYCIS SP.	1	1	3.8		NL							1.0
MERLUCCIIUS BILINEARIS	25	25	5.7	3.5-7.4	NL	0	22	22	5.7	3.5-8.4	0	14.8
ETRCPIUS MICROSTOMUS	2	2	6.4	5.1-7.7	SL							0.7
PARALICHTHYS DENTATUS	8	8	6.4	4.4-9.4	SL	1	6	6	8.4	6.5-10.6	0	4.4
SCOPHTHALMUS AQUOSUS	3	3	7.0	6.0-9.0	SL							1.0
.....												
C 6 C2 12				0-15M	TL				18-33M			
CLUPEA HARENGUS HARENGUS	1	1	23.0		TL							0.6
ENCHELYOPIUS CINBRIUS						0	1	1	18.5		0	0.3
GADUS MORHUA	1	1	5.7		SL	0	1	1	4.1		0	0.6
POLLACHIUS VIRENS	2	2	3.1	2.9-3.2	SL	0	1	1	3.7		0	0.9
MERLUCCIIUS BILINEARIS	19	19	7.3	3.1-33.9	NL	0	21	21	5.1	3.1-7.7	0	12.7
CITHARICHTHYS ARCTIFRONS	1	1	4.8		SL							1.0
ETRCPIUS MICROSTOMUS	1	1	8.0		SL							0.3
PARALICHTHYS DENTATUS	14	14	6.9	4.4-9.7	SL	0	8	8	5.9	3.2-8.4	0	6.9
SCOPHTHALMUS AQUOSUS	2	2	4.7	4.4-5.0	SL							3.3
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED						
.....												
C 7 C2 12				0-15M	TL				18-33M			
CLUPEA HARENGUS HARENGUS	13	13	16.6	15.0-21.5	TL							16.6
CERATOSCOPELUS MADERENSIS	7	7	7.6	6.3-9.9	SL							3.8
DIAPHUS SP.	1	1	7.2		SL							0.3
ENCHELYOPIUS CINBRIUS						0	2	2	4.6	3.3-5.8	0	0.7
POLLACHIUS VIRENS						0	1	1	4.8		0	0.3
MERLUCCIIUS BILINEARIS	17	15	7.1	3.2-12.8	NL	0	7	7	11.6	4.4-43.1	0	7.4
CITHARICHTHYS ARCTIFRONS						0	1	1	10.1			0.3
PARALICHTHYS DENTATUS	1	1	8.0		SL	0	1	1	8.3		0	0.6
ADDITIONAL LARVAE CAUGHT						GOBIIDAE						
.....												
C 8 C2 12				0-15M					18-33M			
CERATOSCOPELUS MADERENSIS	16	16	7.2	5.0-8.9	SL							9.1
ADDITIONAL LARVAE CAUGHT						GOBIIDAE MUGILIDAE GOBIIDAE						
.....												
D 1 C1 12				0-6M								
BREVOORTIA TYRANNUS	2	2	21.7	20.0-23.5	TL							0.2
GADUS MORHUA	1	1	3.9		SL	0						0.1
MICROPOGON UNDULATUS	1	1	8.6		SL							0.1
PRIONOTUS CARLINIUS	2	2	5.8	5.6-6.0	SL							0.2
PARALICHTHYS DENTATUS	3	3	11.7	11.1-12.0	SL	0						0.4
SCOPHTHALMUS AQUOSUS	4	4	8.3	7.6-9.2	SL							0.5
.....												
D 2 C1 12				0-6M								
ENGRAULIS EURYSTOLE	1	1	17.5		TL							0.1
GADUS MORHUA						5						0.0
PEPRILUS TRIACANTUS	1	1	50.4		SL							0.1
PRIONOTUS CARLINIUS	1	1	7.6		SL							0.1
PARALICHTHYS DENTATUS	4	4	10.5	9.3-11.0	SL	0						0.5
SCOPHTHALMUS AQUOSUS	20	20	6.5	3.8-9.7	SL							2.4
ADDITIONAL LARVAE CAUGHT						GOBIIDAE						
.....												
D 3 C1 12				0-15M								
GADUS MORHUA	3	3	3.4	3.3-3.4	SL	55						0.9
PARALICHTHYS DENTATUS	16	16	5.2	3.5-8.6	SL	0						4.8
SCOPHTHALMUS AQUOSUS	170	50	4.6	2.9-11.3	SL							51.5
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED						
.....												
D 4 C2 12				0-15M								
GADUS MORHUA	5	5	3.1	3.0-3.2	SL	52						1.5
UROPHYCIS SP.	6	6	3.5	2.7-4.4	NL							1.8
PARALICHTHYS DENTATUS	22	22	5.2	4.1-6.5	SL	0						6.7
SCOPHTHALMUS AQUOSUS	190	50	4.6	2.7-7.0	SL							57.6
.....												
D 5 C2 12				0-15M					18-24M			
GADUS MORHUA	2	2	3.7	3.7-3.7	SL	8					3	0.6
UROPHYCIS SP.	30	23	3.5	2.3-5.4	NL		16	14	4.4	2.5-9.2	NL	11.8
CITHARICHTHYS ARCTIFRONS	1	1	4.0		SL							0.3
ETRCPIUS MICROSTOMUS	3	3	4.9	4.7-5.1	SL							1.0
PARALICHTHYS DENTATUS	59	59	4.8	2.8-7.3	SL	0	41	41	5.1	3.1-11.0	SL	24.8
SCOPHTHALMUS AQUOSUS	169	50	4.0	2.8-6.0	SL		105	50	4.1	2.7-8.2	SL	68.9
ADDITIONAL LARVAE CAUGHT						SYNGNATHIDAE SERRANIDAE UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE 06614 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LARVAE	2 EGGS		
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE	NO. MEAS. EGGS			NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN RANGE	NO. MEAS. EGGS						
C 6 C2 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
CLUPEA HARENGUS HARENGUS	2	2	5.2	3.4-7.0	SL	0	2	2	15.2	18.5-20.0	TL	0	0.7	
ENCHELYDOPUS CIMBRIUS	1	1	5.2		SL	0	3	3	5.1	3.7-6.3	SL	0	1.6	0.0
GADUS MORHUA	1	1	5.2		SL	0	3	3	5.0	4.7-5.2	SL	0	1.3	0.0
UROPHYCIS SP.	2	2	3.8	3.7-4.0	NL	0	8	7	5.3	3.0-15.1	NL	0	3.3	
MERLUCCIIUS BILINEARIS	18	17	4.8	3.1-6.9	NL	0	18	17	5.1	2.7-6.5	NL	0	11.4	0.0
PEPRILUS TRIACANTHUS							1	1	30.0		SL		0.3	
CITHARICHTHYS ARCTIFRONS	3	3	6.1	5.4-6.6	SL		3	3	9.0	5.7-12.1	SL		1.9	
ETREBUS MICROSTOMUS	1	1	6.7		SL		1	1	4.7		SL		0.6	
PARALICHTHYS DENTATUS	7	7	7.2	4.7-8.9	SL	0	23	23	5.8	3.7-5.2	SL	0	9.8	0.0
SCOPHTHALMUS AQUOSUS	8	8	5.2	4.0-6.5	SL		56	48	4.9	2.9-6.7	SL		21.1	
ADDITIONAL LARVAE CAUGHT														
SPARIDAE														
UNIDENTIFIED														
C 7 C2 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
CLUPEA HARENGUS HARENGUS	1	1	18.0		TL							0	0.3	
ENCHELYDOPUS CIMBRIUS	1	1	5.4		SL	0						0	0.3	0.0
MERLUCCIIUS BILINEARIS	1	1	6.2		NL	0	1	1	6.1		NL	0	0.6	0.0
CITHARICHTHYS ARCTIFRONS	1	1	6.6		SL								0.3	
PARALICHTHYS DENTATUS						0	2	2	4.5	4.5-4.6	SL	0	0.7	0.0
SCOPHTHALMUS AQUOSUS	1	1	3.9		SL		2	2	5.6	5.3-5.8	SL		1.0	
C 8 C2 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
CLUPEA HARENGUS HARENGUS	2	2	18.0	17.0-19.0	TL		3	3	17.0	16.0-17.5	TL		1.6	
CERATOSCOPELUS MANERENSIS							7	7	6.1	5.4-6.7	SL		2.3	
UROPHYCIS SP.	1	1	2.8		NL								0.3	
PARALICHTHYS DENTATUS						0	3	3	7.8	7.1-8.6	SL	0	1.0	0.0
E 1 C9 11	SAMPLING DEPTH 0-6M													
BREVOORTIA TYRANNIS	5	5	19.9	18.5-20.5	TL								0.6	
SCOPHTHALMUS AQUOSUS	2	2	5.8	4.7-6.8	SL								0.2	
ADDITIONAL LARVAE CAUGHT LABRIDAE OR SCARIDAE														
GOBIIDAE														
SCORPAENIDAE														
E 2 C9 11	SAMPLING DEPTH 0-6M													
PRIONOTUS CAROLINUS	1	1	26.7		SL								0.1	
PARALICHTHYS DENTATUS						4							0.0	0.5
SCOPHTHALMUS AQUOSUS	12	12	5.5	3.3-7.5	SL								1.5	
ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE														
GOBIIDAE														
F 3 10 11	SAMPLING DEPTH 0-6M													
GADUS MORHUA						2							0.0	0.2
PARALICHTHYS DENTATUS	1	1	8.2		SL	27							0.1	3.3
SCOPHTHALMUS AQUOSUS	27	27	4.0	2.9-5.4	SL								3.3	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE														
GOBIIDAE														
F 4 10 11	SAMPLING DEPTH 0-15M													
PRIONOTUS CAROLINUS	1	1	5.8		SL								0.3	
PARALICHTHYS DENTATUS	6	6	6.0	4.6-7.2	SL	17							1.8	5.2
SCOPHTHALMUS AQUOSUS	4	4	3.6	3.0-4.7	SL								1.2	
F 5 10 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
UROPHYCIS SP.	1	1	4.9		NL								0.3	
PEPRILUS TRIACANTHUS	4	4	24.0	14.2-42.5	SL								1.3	
PRIONOTUS CAROLINUS	1	1	4.4		SL								0.3	
PARALICHTHYS DENTATUS						7						25	0.0	10.4
F 6 10 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
UROPHYCIS SP.	11	9	4.5	1.5-8.2	NL	1	3	3	3.2	2.5-3.8	NL	0	4.3	
MERLUCCIIUS BILINEARIS	1	1	3.6		NL		4	1	3.8		NL		1.6	0.3
PRIONOTUS CAROLINUS							1	1	5.2		SL		0.3	
CITHARICHTHYS ARCTIFRONS	1	1	4.4		SL		3	3	4.7	4.4-5.4	SL		1.3	
PARALICHTHYS DENTATUS	2	2	6.4	6.3-6.5	SL	8	9	9	5.4	3.1-6.8	SL	7	3.6	4.7
SCOPHTHALMUS AQUOSUS	1	1	2.9		SL		3	3	3.2	3.0-3.3	SL		1.3	
F 7 10 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
UROPHYCIS SP.	15	12	9.8	6.8-25.0	NL	0	2	2	5.0	4.0-6.1	NL	0	5.0	
MERLUCCIIUS BILINEARIS	1	1	29.6		NL		4	4	30.1	23.6-40.3	SL		1.0	0.0
PEPRILUS TRIACANTHUS							4	4	30.1	23.6-40.3	SL		1.3	
CITHARICHTHYS ARCTIFRONS	2	2	12.8	11.3-14.3	SL		8	8	8.6	5.1-14.3	SL		3.3	
PARALICHTHYS DENTATUS						0	1	1	7.0		SL	0	0.3	0.0
SCOPHTHALMUS AQUOSUS							1	1	7.6		SL		0.3	

TABLE 3. (continued)

144

CRUISE DATE 06614 1966	***** LARVAE *****					***** LARVAE *****					NO. PER LOW LARVAE	2 EGGS		
	STA. D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO. EGGS	NUMBER	LENGTHS (MM)	NO. EGGS	NO. PER LOW LARVAE					
E 8	19 11		TOTAL MEAS.	MEAN RANGE	MEAS.	TOTAL MEAS.	MEAN RANGE	MEAS.	EGGS					
			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-23M							
		CERATOSCOPELUS MADERENSIS	1	1	4.6	TL	1	1	7.2	SL	0.3			
		UROPHYCIS SP.	2	1	17.2	NL	1	1	3.8	NL	0.3			
		MERLUCCIVUS BILINEARIS	1	1	23.8	NL	1	1	6.0	NL	0.9			
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE				0.6	2.7		
.....														
F 1	11 11		SAMPLING DEPTH	0-6M										
		BREVOORTIA TYRANNUS	1	1	21.0	TL					0.1			
		ANCHIA MITCHILLI	2	2	36.2	21.5-51.0	TL				0.2			
		MICROPOGON UNDULATUS	1	1	9.4	SL					0.1			
		PARALICHTHYS DENTATUS	1	1	10.1	SL					0.1	0.0		
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE							
.....														
F 2	11 11		SAMPLING DEPTH	0-6M										
		BREVOORTIA TYRANNUS	3	3	20.7	19.5-21.5	TL				0.4			
		ANCHIA MITCHILLI	6	6	56.0	50.0-60.0	TL				0.7			
		MICROPOGON UNDULATUS	5	5	11.9	9.9-13.7	SL				0.6			
		PARALICHTHYS DENTATUS	3	3	11.2	10.5-12.1	SL				0.4	0.0		
		SCOPHTHALMUS AQUOSUS	2	2	7.4	5.4-9.3	SL				0.2			
.....														
F 3	11 11		SAMPLING DEPTH	0-15M										
		BREVOORTIA TYRANNUS	2	2	15.2	15.0-15.5	TL				0.6			
		ANCHIA MITCHILLI	4	4	62.0	59.5-65.0	TL				1.2			
		PARALICHTHYS DENTATUS	2	2	10.5	10.5-10.6	SL				0.6	0.0		
		SCOPHTHALMUS AQUOSUS	6	6	5.8	5.1-6.7	SL				1.8			
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE							
.....														
F 4	11 11		SAMPLING DEPTH	0-15M										
		UROPHYCIS SP.	1	1	3.1		NL				0.3			
		CENTROPYRISTIS STRIATA	1	1	5.2		SL				0.3			
		PRICNOTUS CARLINUS	1	1	5.5		SL				0.3			
		ETROPUS MICROSTOMUS	1	1	4.7		SL				0.3			
		PARALICHTHYS DENTATUS	1	1	9.0		SL				0.3	4.2		
		SCOPHTHALMUS AQUOSUS	6	6	3.7	2.7-5.0	SL				1.8			
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE							
.....														
F 5	11 11		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M						
		GADUS MORHUA									1	0.0		
		UROPHYCIS SP.	4	2	3.2	3.2-3.3	NL	0	2	2	2.5	2.8-3.1	NL	1.6
		MERLUCCIVUS BILINEARIS	2	2	3.1	2.5-3.8	NL	0					0.6	
		PRICNOTUS CARLINUS	1	1	4.8		SL						0.3	
		CITHARICHTHYS ARCTIFRONS						2	2	8.6	5.1-12.0	SL	0.3	
		ETROPUS MICROSTOMUS						1	1	4.0		SL	0.2	
		PARALICHTHYS DENTATUS						17	8	3.8	3.3-5.5	SL	0	
		SCOPHTHALMUS AQUOSUS							7	6	3.1	2.8-3.7	SL	1.1
.....														
F 6	10 11		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
		UROPHYCIS SP.	11	8	6.7	3.7-17.0	NL	0	12	12	6.4	3.3-14.7	NL	7.3
		MERLUCCIVUS BILINEARIS	4	4	15.9	8.5-24.2	NL	0	4	4	8.2	6.0-12.9	NL	2.5
		CITHARICHTHYS ARCTIFRONS	4	4	6.6	5.1-7.6	SL		8	8	10.7	4.7-21.1	SL	3.9
		ETROPUS MICROSTOMUS							2	2	6.2	6.0-6.3	SL	0.7
		PARALICHTHYS DENTATUS	3	3	5.7	4.6-6.9	SL	51	6	6	7.1	4.6-10.5	SL	3
		SCOPHTHALMUS AQUOSUS	3	3	3.4	2.7-4.1	SL		3	3	6.3	3.6-8.2	SL	1.9
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE							
.....														
F 7	18 11		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
		CERATOSCOPELUS MADERENSIS						3	3	7.9	6.6-9.8	SL	1.0	
		MERLUCCIVUS BILINEARIS	36	36	29.5	20.4-36.5	NL	0	61	61	26.6	16.7-39.3	NL	0
		CITHARICHTHYS ARCTIFRONS							2	2	15.5	15.4-15.6	SL	0.7
		ADDITIONAL LARVAE CAUGHT					GOBIIDAE							
.....														
G 1	11 11		SAMPLING DEPTH	0-6M										
		BREVOORTIA TYRANNUS	100	55	20.7	17.0-25.0	TL					12.1		
.....														
G 2	11 11		SAMPLING DEPTH	0-6M										
		BREVOORTIA TYRANNUS	5	5	16.5	14.5-18.0	TL					0.6		
		MICROPOGON UNDULATUS	2	2	6.1	5.9-6.4	SL					0.2		
		PARALICHTHYS DENTATUS	1	1	10.3		SL					0.1		
		SCOPHTHALMUS AQUOSUS	4	4	6.0	4.7-7.1	SL					0.5		

TABLE 3. (continued)

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M ² LARVAE	NO. PER 10M ² EGGS	
	TOTAL MEAS.	NUMBER	MEAN LENGTHS (MM)	RANGE		TOTAL MEAS.	NUMBER	MEAN LENGTHS (MM)	RANGE			
G 3 11 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
BREVOORTIA TYRANNUS	5	5	18.6	15.0-24.0	TL						1.5	
ANCHOA MICHILLI	1	1	70.0		TL						0.3	
UROPHYCIS SP.	2	2	3.4	2.0-4.9	NL						0.6	
ETREPOS MICROSTOMUS	1	1	10.9		SL						0.3	
PARALICHTHYS DENTATUS	6	6	10.2	6.4-11.4	SL					0	1.8	
SCOPHTHALMUS AQUOSUS	12	12	4.8	3.1-6.2	SL						3.6	
G 4 11 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
BREVOORTIA TYRANNUS	1	1	5.0		TL						0.3	
UROPHYCIS SP.	3	3	5.2	2.3-9.3	NL						0.9	
ETREPOS MICROSTOMUS	5	5	6.7	4.0-9.1	SL						1.5	
PARALICHTHYS DENTATUS	7	7	3.4	2.7-3.9	SL					43	2.1	
SCOPHTHALMUS AQUOSUS	14	14	2.9	2.4-4.2	SL						4.2	
G 5 11 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
BREVOORTIA TYRANNUS	1	1	9.3		TL						0.3	
UROPHYCIS SP.	20	16	6.0	2.6-20.0	NL	17	13	3.2	1.4-6.1	NL	11.7	
MERLUCCIIUS BILINEARIS	4	4	12.7	3.8-22.6	NL	1	1	7.3		NL	1.5	
PRINCOTUS CARLINUS						1	1	6.0		SL	0.3	
CITHARICHTHYS ARCTIFRONS						3	3	9.9	4.3-13.4	SL	1.0	
ETREPOS MICROSTOMUS	1	1	8.4		SL	2	2	5.9	5.7-6.0	SL	1.0	
PARALICHTHYS DENTATUS	8	8	4.5	2.7-7.3	SL	2	2	4.6	4.4-4.6	SL	9	
SCOPHTHALMUS AQUOSUS	5	5	2.6	2.5-3.2	SL						3.1	
G 6 12 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
CERATOSCOPELUS MADEIRENSIS	3	3	7.9	7.6-8.3	SL	1	1	9.0		SL	1.2	
UROPHYCIS SP.	31	24	5.9	4.0-8.1	NL	20	16	4.6	1.7-7.1	NL	16.0	
MERLUCCIIUS BILINEARIS	6	6	15.2	5.7-24.6	NL	8	9	7.0	2.5-17.9	NL	4.8	
PEPRILUS TRIACANTHUS	1	1	23.2		SL	1	1	18.3		SL	0.6	
CITHARICHTHYS ARCTIFRONS	32	32	8.0	6.1-10.0	SL	29	29	8.4	5.6-14.6	SL	19.3	
PARALICHTHYS DENTATUS											0.0	
SCOPHTHALMUS AQUOSUS	1										3.3	
SYACTUM PAPILLOSUM						1	1	6.6		SL	0.3	
ADDITIONAL LARVAE CAUGHT	SYNOCCATIDAE										0.3	
	GOBIIDAE											
H 1 12 11	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M						
BREVOORTIA TYRANNUS	1	1	15.0		TL						0.1	
ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE											
H 2 12 11	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M						
UROPHYCIS SP.	2	1	4.3		NL						0.2	
SCOPHTHALMUS AQUOSUS	1	1	4.7		SL						0.1	
H 3 12 11	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M						
BREVOORTIA TYRANNUS	1	1	5.7		TL						0.1	
UROPHYCIS SP.	5	4	4.8	3.2-6.7	NL						0.6	
PARALICHTHYS DENTATUS										1	0.0	
SCOPHTHALMUS AQUOSUS	1	1	2.7		SL						0.1	
H 4 12 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
BREVOORTIA TYRANNUS	2	2	13.7	13.5-14.0	TL						0.6	
UROPHYCIS SP.	16	15	6.0	3.5-10.7	NL						4.8	
PRINCOTUS CARLINUS	2	2	6.1	5.5-6.7	SL						0.6	
CITHARICHTHYS ARCTIFRONS	3	3	10.6	8.7-11.6	SL						0.9	
ETREPOS MICROSTOMUS	18	18	8.8	5.7-11.6	SL						5.5	
PARALICHTHYS DENTATUS	3	3	6.3	5.1-7.1	SL					11	0.9	
H 5 12 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BREVOORTIA TYRANNUS						2	2	5.3	5.0-5.7	TL		0.7
UROPHYCIS SP.	127	28	5.4	2.2-9.8	NL	8	6	5.0	3.1-7.6	NL	42.3	
MERLUCCIIUS BILINEARIS	2	2	6.8	6.6-7.0	NL	1	1	7.1		NL	0.9	
CENTROPOMUS STRIATA	1	1	7.5		SL						0.3	
PRINCOTUS CARLINUS	2	2	6.1	5.3-7.0	SL					0	0.7	
CITHARICHTHYS ARCTIFRONS	3	3	8.7	6.3-12.0	SL	7	7	8.8	6.3-12.6	SL	3.2	
ETREPOS MICROSTOMUS	9	9	6.3	4.3-8.1	SL						3.0	
PARALICHTHYS DENTATUS	15	15	5.2	3.2-7.5	SL					34	5.0	
SCOPHTHALMUS AQUOSUS	2	2	4.8	4.4-5.2	SL						0.7	
H 6 12 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
UROPHYCIS SP.	18	17	3.2	1.5-4.9	NL	25	21	3.2	1.5-7.7	NL	13.7	
MERLUCCIIUS BILINEARIS						3	3	4.7	3.9-5.2	NL	3	
CITHARICHTHYS ARCTIFRONS	1	1	5.1		SL	6	6	5.7	4.7-6.6	SL	2.3	
PARALICHTHYS DENTATUS	2	2	4.9	4.9-5.0	SL	1	1	2.9		SL	0.9	
SCOPHTHALMUS AQUOSUS						1	1	3.1		SL	0.3	
ADDITIONAL LARVAE CAUGHT						GOBIIDAE						

TABLE 3. (continued)

146

CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10M LARVAE	2 EGGS
	NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		NUMBER	TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE MEAS.		
F 7 12 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
BREVOORTIA TYRANNUS	1	1	19.0	TL						0.3	
CERATOSCOPELUS MADEIRENSIS	2	2	7.7	7.1-8.4 SL		2	2	9.0	7.9-10.2 SL	1.3	
UROPHYCIS SP.	1	1	1.6	NL		29	24	3.2	1.3-5.1 NL	10.0	
MERLUCCIVUS BILINEARIS					5	4	4	5.6	2.4-10.4 NL	1.3	
PEPRILUS TRIACANTHUS	1	1	29.2	SL						0.3	
CITHARICHTHYS ARCTIFRONS						6	6	6.2	3.9-10.9 SL	2.0	
ADDITIONAL LARVAE CAUGHT				CONGRIDAE	GOBIIDAE						
				SYNOBONTIDAE							
.....											
J 1 12 11	SAMPLING DEPTH 0-6M										
MICROPOGON UNCOLATUS	1	1	10.9	SL						0.1	
PARALICHTHYS DENTATUS	2	2	10.8	10.7-10.9 SL	0					0.2	
ADDITIONAL LARVAE CAUGHT				GOBIIDAE						0.0	
.....											
J 2 13 11	SAMPLING DEPTH 0-6M										
BREVOORTIA TYRANNUS	1	1	20.5	TL						0.1	
PRIONOTUS CARLINUS	1	1	16.0	SL						0.1	
ADDITIONAL LARVAE CAUGHT				GOBIIDAE							
.....											
J 3 13 11	SAMPLING DEPTH 0-6M										
BREVOORTIA TYRANNUS	1	1	10.6	TL						0.1	
ADDITIONAL LARVAE CAUGHT				GOBIIDAE							
.....											
J 4 14 11	SAMPLING DEPTH 0-15M										
BREVOORTIA TYRANNUS	6	6	9.3	7.4-12.5 TL						1.8	
UROPHYCIS SP.	12	12	4.5	2.2-8.7 NL						3.6	
CITHARICHTHYS ARCTIFRONS	1	1	10.0	SL						0.3	
ETREPUS MICROSTOMUS	2	2	8.8	7.9-9.7 SL						0.6	
PARALICHTHYS DENTATUS	6	6	6.2	3.7-11.4 SL	17					1.8	
SCOPHTHALMUS AQUOSUS	6	6	3.4	2.7-4.0 SL						1.8	
.....											
J 5 14 11	SAMPLING DEPTH 0-15M										
UROPHYCIS SP.	25	23	11.7	3.0-27.5 NL						7.6	
MERLUCCIVUS BILINEARIS	1	1	6.7	NL	0					0.3	
CITHARICHTHYS ARCTIFRONS	1	1	10.6	SL						0.3	
ETREPUS MICROSTOMUS	7	7	7.6	6.1-8.7 SL						2.1	
PARALICHTHYS DENTATUS	2	2	7.1	5.2-9.1 SL	2					0.6	
.....											
J 6 14 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
CERATOSCOPELUS MADEIRENSIS						1	1	7.9	SL		0.2
UROPHYCIS SP.	8	8	4.2	2.2-6.7 NL		31	25	5.4	2.0-9.1 NL		7.5
MERLUCCIVUS BILINEARIS	1	1	7.6	NL	0	2	2	6.2	7.6-8.8 NL	0	0.6
CITHARICHTHYS ARCTIFRONS	8	8	6.6	5.9-8.7 SL		27	27	7.2	5.7-10.0 SL		6.8
PARALICHTHYS DENTATUS	2	2	6.5	6.4-7.5 SL	25	1	1	7.7	SL	17	0.8
.....											
J 7 14 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
UROPHYCIS SP.					0	9	5	2.7	1.4-4.0 NL		3.0
MERLUCCIVUS BILINEARIS					0	3	3	4.8	3.2-6.3 NL	0	1.0
CITHARICHTHYS ARCTIFRONS						1	1	6.4	SL		0.3
PARALICHTHYS DENTATUS					0	1	1	3.7	SL	2	0.3
SCOPHTHALMUS AQUOSUS	1	1				1	1	4.5	SL		0.6
ADDITIONAL LARVAE CAUGHT					LOPHIIFORMES						
.....											
K 1 18 11	SAMPLING DEPTH 0-6M										
BREVOORTIA TYRANNUS	17	17	15.1	4.4-22.0 TL						2.1	
UROPHYCIS SP.	1	1	4.9	NL						0.1	
MERLUCCIVUS BILINEARIS	1	1	3.1	NL	0					0.1	
PARALICHTHYS DENTATUS					1					0.0	
SCOPHTHALMUS AQUOSUS	7	7	2.9	2.4-3.5 SL						0.8	
.....											
K 2 18 11	SAMPLING DEPTH 0-15M										
BREVOORTIA TYRANNUS	1	1	12.5	TL						0.3	
UROPHYCIS SP.	1	1	1.6	NL						0.3	
PARALICHTHYS DENTATUS	2	2	4.5	3.5-5.6 SL	18					0.6	
SCOPHTHALMUS AQUOSUS	28	26	3.0	2.2-5.8 SL						8.5	
.....											
K 3 18 11	SAMPLING DEPTH 0-15M										
BREVOORTIA TYRANNUS	1	1	6.0	TL						0.3	
UROPHYCIS SP.	3	3	3.7	3.4-4.1 NL						0.9	
ETREPUS MICROSTOMUS	2	2	8.7	7.1-10.3 SL						0.6	
PARALICHTHYS DENTATUS	12	12	4.0	2.6-5.5 SL	63					3.6	
SCOPHTHALMUS AQUOSUS	2	2	3.8	2.3-5.2 SL						0.6	
ADDITIONAL LARVAE CAUGHT				GOBIIDAE							
.....											

TABLE 3. (continued)

CRUISE DATE D6614 1966 STA. D M SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				AD. PER 10M ² LARVAE	EGGS
	TOTAL MEAS.	NUMBER	LENGTHS (MM)	NO. EGGS	TOTAL MEAS.	NUMBER	LENGTHS (MM)	NO. EGGS		
K 4 18 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS	3	3	18.8	16.0-21.0 TL	2	2	11.5	10.6-12.5 TL	0.3	
ANCORA HEPSETUS					30	30	18.8	10.6-25.0 TL	5.8	
UROPHYCIS SP.	11	8	5.6	3.3-12.3 NL	37	26	7.6	1.7-15.8 NL	9.4	
CITHARICHTHYS ARCTIFRONS	3	3	7.3	6.1-8.3 SL	4	4	8.0	6.1-8.9 SL	1.6	
ETRCPIUS MICROSTOMUS	5	5	9.5	8.7-11.3 SL	16	16	8.8	6.0-11.6 SL	4.1	
PARALICHTHYS DENTATUS	1	1	8.2	SL					0	0.0
ADDITIONAL LARVAE CAUGHT					GOBIIDAE					
K 5 18 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS	1	1	13.1	TL					0.3	
ANCORA HEPSETUS	3	3	14.0	12.5-16.0 TL	1	1	15.5	TL	1.1	
UROPHYCIS SP.	10	9	3.9	2.9-5.2 NL	17	16	5.2	3.9-7.1 NL	5.8	
PEPICOTUS CARLINUS					1	1	15.4	SL	0.2	
CITHARICHTHYS ARCTIFRONS	11	11	9.0	5.3-13.9 SL	23	23	8.0	5.3-12.7 SL	7.1	
ETRCPIUS MICROSTOMUS	3	3	8.8	5.7-12.0 SL	9	9	8.0	6.1-11.9 SL	2.4	
PARALICHTHYS DENTATUS	2	2	5.0	4.6-5.4 SL	3	3	6.7	6.4-7.3 SL	0	0.3
ADDITIONAL LARVAE CAUGHT					GOBIIDAE					
K 6 17 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	15	12	3.3	2.0-4.8 NL	15	13	2.7	1.6-4.2 NL	9.5	
MERLUCCIIUS BILINEARIS									0.0	5.2
PARALICHTHYS DENTATUS									16	0.0
ADDITIONAL LARVAE CAUGHT	GOBIIDAE				GOBIIDAE					
	UNIDENTIFIED				UNIDENTIFIED					
K 7 17 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
UROPHYCIS SP.					8	7	3.6	3.0-4.7 NL	2	2.7
MERLUCCIIUS BILINEARIS									0.0	0.7
PEPRILUS TRIACANTHUS	5	5	24.1	13.1-32.1 SL					1.7	
PARALICHTHYS DENTATUS									11	0.0
SCORPHTHALMUS AQUOSUS					1	1	3.2	SL	0.3	5.1
ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED					
L 1 17 11	SAMPLING DEPTH 0-6M									
BREVOORTIA TYRANNUS	3	3	10.5	10.2-11.9 TL					0.4	
UROPHYCIS SP.	6	7	9.2	7.2-15.2 NL					0.7	
PARALICHTHYS DENTATUS	2	2	3.3	3.2-3.4 SL					23	0.2
SCORPHTHALMUS AQUOSUS	4	4	2.9	2.6-3.1 SL					0.5	2.6
ADDITIONAL LARVAE CAUGHT										
L 2 17 11	SAMPLING DEPTH 0-6M									
BREVOORTIA TYRANNUS	2	2	13.7	10.5-17.0 TL					0.2	
ANCORA HEPSETUS	1	1	25.0	TL					0.1	
UROPHYCIS SP.	6	5	7.6	4.0-11.3 NL					0.7	
PARALICHTHYS DENTATUS	7	7	3.6	3.1-5.0 SL					308	0.8
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED									
L 3 17 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS					1	1	11.9	TL	0.2	
UROPHYCIS SP.	26	23	7.6	3.4-10.5 NL	8	7	3.3	2.4-6.7 NL	9.3	
MICROPOGON UNDULATUS					1	1	4.0	SL	0.2	
CITHARICHTHYS ARCTIFRONS	1	1	5.1	SL	2	2	5.7	4.7-6.7 SL	0.6	
ETRCPIUS MICROSTOMUS	2	2	8.0	7.9-8.1 SL	2	2	7.2	6.3-8.1 SL	0.9	
PARALICHTHYS DENTATUS	4	4	4.3	3.2-5.0 SL	2	2	4.3	3.7-5.0 SL	9	1.6
ADDITIONAL LARVAE CAUGHT										
L 4 17 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
CERATOSCOPELUS MAZERENSIS	1	1	5.8	SL					0.3	
UROPHYCIS SP.	39	11	4.8	1.8-16.0 NL	14	11	6.2	4.4-7.9 NL	16.4	
PEPRILUS TRIACANTHUS	1	1	20.7	SL					0.3	
CITHARICHTHYS ARCTIFRONS	16	16	6.9	5.7-8.6 SL	12	12	8.2	6.1-14.0 SL	8.8	
ETRCPIUS MICROSTOMUS	1	1	9.3	SL	1	1	7.3	SL	0.6	
PARALICHTHYS DENTATUS	1	1	4.4	SL	2	2	6.5	6.2-6.5 SL	5	1.7
ADDITIONAL LARVAE CAUGHT	CALLIONYMIIDAE				GOBIIDAE					
L 5 17 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
UROPHYCIS SP.	4	3	2.6	1.9-3.4 NL	5	5	3.1	2.6-3.8 NL	1	2.9
MERLUCCIIUS BILINEARIS					1	1	4.3	NL	6	0.3
PARALICHTHYS DENTATUS									1	0.0
SCORPHTHALMUS AQUOSUS					1	1	4.1	SL	6	0.3
ADDITIONAL LARVAE CAUGHT					GOBIIDAE					
M 1 16 11	SAMPLING DEPTH 0-6M									
BREVOORTIA TYRANNUS	43	43	9.7	6.6-14.0 TL					5.2	
ANCORA HEPSETUS	2	2	20.0	15.5-24.5 TL					0.2	
ENGRANULIS EURYSTOIE	11	11	32.5	30.5-36.5 TL					1.3	
UROPHYCIS SP.	5	4	8.4	5.3-14.4 NL					0.6	
PARALICHTHYS DENTATUS									20	0.0
ADDITIONAL LARVAE CAUGHT										

TABLE 3. (continued)

149

CRUISE DATE	*****1**** LARVAE *****				***** LARVAE *****				2	
D6614 1966	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M	
STA. D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE	
M 5 16 11	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 12-33M				EGGS	
EUCYS SAURUS	1	1	28.3	NL					0.3	
CALLECHELYS PERRYAE	3	3	35.2	23.8-42.5	NL				1.6	
MYRCPHIS PUNCTATUS	3	3	35.2	23.8-42.5	TL	2	2	40.8	38.4-42.3	1.6
ANCHOA HEPSETLS	1	1	10.0		TL				0.3	
ENGRAULIS EURYSTOIE	30	20	8.2	3.4-20.5	TL	10	10	5.7	6.3-16.9	12.3
BENTHOSEMA GLACIAI F	1	1	6.4		SL				0.3	
BENTHOSEMA SUBRIBITALE	1	1	4.9		SL	1	1	7.7		0.6
CERATOSCOPELUS MADERENSIS					SL	1	1	6.2		0.3
CERATOSCOPELUS MAMMINGI	2	2	3.8	3.3- 4.3	SL	2	2	4.1	3.9- 4.4	1.3
DIAPHUS SP.	4	3	4.7	4.4- 4.9	SL	4	4	5.2	4.4- 6.1	2.5
HYGOPHUM REINHARDTI					SL	1	1	5.8		0.3
HYGOPHUM TANNINGI					SL	2	2	5.2	4.7- 5.7	0.7
LAMFANYCTUS ALATUS OR PHOTONOTUS					SL	2	2	7.7	4.5-11.0	0.7
LAMFANYCTUS CLPHEMUS					SL	1	1	6.8		0.3
LEPIDOPHANES SP.	1	1	4.0		SL					0.3
UROPHYCIS SP.	45	38	2.2	1.7- 3.9	NL	89	60	2.1	1.6- 3.6	43.2
HEMANTHIS VIANUS	2	1	4.7		SL	5	5	4.3	3.6- 5.0	2.3
LEICSTOMUS XANTHURUS					SL	2	2	3.5	3.4- 3.6	0.7
MICROPOGON UNDULATUS	9	9	4.5	3.6- 7.1	SL	28	28	3.5	2.3- 6.1	12.0
PRIONOTUS CAROLINUS	4	4	4.5	3.3- 7.0	SL	5	5	4.6	2.8- 7.0	2.9
BETHUS OCELLATUS	25	22	5.3	2.9-10.7	SL	55	25	5.4	2.8- 5.7	25.8
CITHARICHTHYS ARCTIFRONS					SL	1	1	12.1		0.3
CYCLOPSETTA FIMBRATA	1	1	4.6		SL	1	1	6.4		0.6
ETRCPUS MICROSTOMUS	14	14	3.6	2.6- 4.9	SL	10	10	4.3	3.1- 5.7	7.5
PARALICHTHYS DENTATUS	2	2	3.1	3.1- 3.2	SL	2	2	3.5	3.2- 3.8	1.3
SYACIUM PAPILLOSUM	6	6	5.9	3.2-11.8	SL	7	7	5.7	4.2-11.5	4.1
SYMPHURUS SP.	19	17	4.5	2.9- 7.9	SL	16	14	4.8	2.8- 5.2	11.0
ADDITIONAL LARVAE CAUGHT	MORINGUIAE				MURAENIDAE					
	CYCLOTHONE SP.				CYCLOTHONE SP.					
	SYNODONTIDAE				STOMIATIDAE					
	PARALEPIDICAE				SYNODONTICAE					
	CPHIDIICAE				PARALEPIDICAE					
	SERRANICAE				BREGMACEROTICAE					
	APOGONIIDAE				OPHIDIIDAE					
	CARANGICAE				SYNGNATHICAE					
	LABRIDAE OR SCARIDAE				SERRANIDAE					
	SPHYRAENICAE				APOGONIDAE					
	CALLIONYMICAE				CARANGIDAE					
	GOBIIDAE				SPARIDAE					
	SCORPAENIDAE				LABRIDAE OR SCARICAE					
	UNIDENTIFIED				MUGILIDAE					
					SPHYRAENICAE					
					CALLIONYMIDAE					
					GOBIIDAE					
					SCORPAENICAE					
					TRIGLIDAE					
					BALISTIDAE					
					UNIDENTIFIED					
.....										
N 1 16 11	SAMPLING DEPTH 0-6M									
BREVOORTIA TYRANNUS	1	1	10.7		TL				0.1	
ANCHOA HEPSETLS	3	3	19.2	18.2-20.5	TL				0.4	
ENGRAULIS EURYSTOIE	3	3	34.0	32.2-37.1	TL				0.4	
UROPHYCIS SP.	2	2	2.2	1.5- 3.0	NL				0.2	
MICROPOGON UNDULATUS	10	10	3.6	3.0- 4.3	SL				1.2	
PARALICHTHYS DENTATUS	3	3	5.2	3.3- 6.7	SL				0.4	
ADDITIONAL LARVAE CAUGHT	CALLIONYMICAE									0.0
	UNIDENTIFIED									
.....										
N 2 16 11	SAMPLING DEPTH 0-15M									
BREVOORTIA TYRANNUS	14	14	9.0	4.3-11.4	TL				4.2	
UROPHYCIS SP.	52	26	4.0	2.7- 9.1	NL				15.8	
LEICSTOMUS XANTHURUS	3	3	4.6	4.6- 4.7	SL				0.9	
MICROPOGON UNDULATUS	87	86	4.8	3.2- 8.3	SL				26.4	
PRIONOTUS CAROLINUS	5	5	5.5	4.8- 6.4	SL				1.5	
BETHUS OCELLATUS	1	1	3.7		SL				0.3	
CITHARICHTHYS ARCTIFRONS	1	1	10.0		SL				0.3	
ETRCPUS MICROSTOMUS	10	10	5.2	3.4- 8.4	SL				3.0	
PARALICHTHYS DENTATUS	1	1	3.7		SL	25			0.3	
SYMPHURUS SP.	1	1	3.8		SL				0.3	
ADDITIONAL LARVAE CAUGHT	CPHIDIICAE									7.6
	CARANGICAE									
	CALLIONYMICAE									
	TRIGLICAE									
	UNIDENTIFIED									

TABLE 3. (continued)

CRUISE DATE D6614 1966 STA. D M SPECIES ANALYZED N 3 16 11	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. PER 10 ^m LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE		NUMBER	LENGTHS (MM)	MEAS.	RANGE		
CALLICHELYS PERRYAE						1	1	57.5		NL	0.2
MYRPHIS PUNCTATUS						1	1	51.5		TL	0.2
OPHICHTHUS MELANOPORUS						1	1	52.0		TL	0.2
OPHICHTHUS OCELLATUS	1	1	52.3			1	1	44.0		TL	0.5
OPHICHTHUS SP.						1	1	94.0		TL	0.2
BREVOORTIA TYRANNUS	3	3	7.2	5.1-11.1							1.0
ANCHOA MESPETUS	4	4	5.4	3.0-9.3						TL	1.3
CERATOSCOPELUS MADERENSIS						1	1	8.9		SL	0.2
UROPHYCIS SP.	29	22	3.8	2.2-6.0		6	5	2.8	1.7-3.4	NL	9.9
CENTROPRESTIS STRIATA						2	2	10.3	7.6-13.0	SL	0.3
LEICSTOMUS XANTHURUS	3	3	4.1	3.8-4.8		6	6	3.4	2.5-5.1	SL	1.9
MICROPOGON UNDOULATUS	53	51	4.0	2.1-5.9		49	45	2.9	2.3-6.3	SL	24.2
PRICNOTUS CARLINUS						8	8	5.2	4.7-5.7	SL	1.3
BETHUS OCELLATUS	1	1	4.0							SL	0.3
CITIPARICHTHUS ARCTIFRONS	1	1	7.6			1	1	7.0		SL	0.5
ETREPLUS MICROSTOMUS	16	16	6.1	4.7-8.3		22	22	6.2	3.9-9.7	SL	8.5
PARALICHTHUS DENTATUS	2	2	4.0	3.4-4.7	0						0.6
SYACIUM PAPILLOSUM						2	2	8.7	8.3-9.0	SL	0.3
SYMPHURUS SP.						2	1	5.0		SL	0.3
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE					MORINGUIDAE					
	CYCLOTHERINE SP.					STOMIATIDAE					
	SYNDONMIDAE					SYNDONMIDAE					
	MYCTOPHICAE					OPHIDIIDAE					
	CARANGIICAE					SERRANIDAE					
	CALLIONYMICAE					GRAMMISTICAE					
	GOBIIDAE					LABRIDAE OR SCARIDAE					
	SCORPAENIDAE					CALLIONYMICAE					
	TRIGLICAE					GOBIIDAE					
	TETRAODONTIDAE					STROMATEIDAE					
						UNIDENTIFIED					
.....											
N 4 16 11	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
CALLICHELYS PERRYAE	2	1	36.5			12	12	31.6	22.7-40.5	NL	4.6
MYRPHIS PUNCTATUS	2	1	36.5			12	12	31.7	23.3-40.5	TL	4.6
ENGAULIS EURYSTOMUS	16	16	8.2	1.9-21.2		19	17	10.0	3.2-15.6	TL	11.1
BENIHOSEMA SUBORBITALE	1	1	7.3			2	2	6.8	5.1-8.6	SL	1.0
CERATOSCOPELUS MADERENSIS						1	1	6.6		SL	0.3
CERATOSCOPELUS WARMINGI	2	2	5.1	4.4-5.8		1	1	4.9		SL	0.9
DIAPHUS SP.	7	7	4.6	3.6-5.9		5	5	5.2	4.4-6.2	SL	3.8
DIGENICHTHUS ATLANTICUS						1	1	4.5		SL	0.3
HYGICUM REINHARDTI						1	1	5.0		SL	0.3
LAMPANYCTUS ALATUS OR PHOTONOTUS	1	1	3.9							SL	0.3
LAMPANYCTUS CUPRINUS	1	1	8.5							SL	0.3
LAMPADENA SP.	1	1	9.8							SL	0.3
UROPHYCIS SP.	9	9	3.3	2.1-5.0		3	3	2.5	1.7-3.0	NL	3.7
HEMANTHIS VIVANUS						1	1	4.3		SL	0.7
LEICSTOMUS XANTHURUS	2	2	3.5	3.4-3.6						SL	0.3
MICROPOGON UNDOULATUS	8	8	3.8	3.0-6.4		9	9	2.7	2.7-4.5	SL	5.4
PRICNOTUS CARLINUS	8	8	4.9	4.5-5.6		6	6	4.6	3.7-5.8	SL	4.4
BETHUS OCELLATUS	45	25	4.7	2.9-9.1		52	25	5.4	2.3-11.5	SL	30.8
CYCLOPSETTA FMBRIATA	1	1	5.4							SL	0.3
ETREPLUS MICROSTOMUS	15	15	4.0	3.0-6.9		24	24	4.0	2.7-9.1	SL	12.5
SYACIUM PAPILLOSUM	13	13	5.9	3.5-9.7		12	12	6.5	3.4-12.7	SL	7.9
SYMPHURUS SP.	8	6	5.2	3.6-7.4		4	4	6.0	4.1-10.2	SL	3.7
ADDITIONAL LARVAE CAUGHT	STOMIATIDAE					MORINGUIDAE					
	SYNDONMIDAE					MURAENIDAE					
	LOPHIIFORMES					STOMIATIDAE					
	OPHIDIIDAE					SYNDONMIDAE					
	SERRANIDAE					CHLOROPHTHALMICAE					
	APOGONIIDAE					PARALEPIDIDAE					
	CARANGIICAE					LOPHIIFORMES					
	SPARIDAE					BREGMACERCTICAE					
	LABRIDAE OR SCARIDAE					OPHIDIIDAE					
	MUGILIDAE					SERRANIDAE					
	URANOSCOPICAE					PRIACANTHIDAE					
	BLENNIICAE					APOGONIDAE					
	CALLIONYMICAE					CARANGIICAE					
	GOBIIDAE					LABRIDAE OR SCARIDAE					
	TRIGLICAE					BLENNIICAE					
	UNIDENTIFIED					CALLIONYMICAE					
						GOBIIDAE					
						ACANTHURICAE					
						SCORPAENICAE					
						TRIGLICAE					
						UNIDENTIFIED					

TABLE 3. (continued)

CRUISE DATE D6614 1966 STA. D M SPECIES ANALYZED N 5 16 11	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ² LARVAE	EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS		
	TOTAL	MEAN	RANGE	MEAS.	EGGS	TOTAL	MEAN	RANGE	MEAS.	EGGS		
	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 10-33M						
ELCYS SAURUS						3	3	23.6	18.5-26.5	NL		1.0
CALLECHELYS PERRYAE						1	1	42.6		NL		0.3
MYRCPHIS PUNCTATUS						1	1	62.6		TL		0.3
ENGRAULIS EURYSTOLE	3	3	7.8	7.2- 8.3	TL	12	11	8.0	5.1-10.9	TL		4.9
CERATOSCOPELUS MADRENSIS	1	1	7.1		SL	1	1	7.5		SL		0.6
CERATOSCOPELUS WAMHINGI						4	4	4.4	3.9- 4.7	SL		1.3
DIAPHUS SP.	6	6	6.2	4.4-10.3	SL	4	4	4.6	4.0- 5.2	SL		3.1
HYGOPHUM BENOITII						1	1	5.6		SL		0.3
HYGOPHUM BENOITII OR HYGOMI						1	1	4.5		SL		0.3
LAMPANYCTUS ALATUS OR PHOTONOTUS						1	1	4.1		SL		0.3
UFOPHYCIS SP.	5	5	2.9	1.9- 4.5	NL	6	6	2.6	1.6- 3.5	NL		3.5
PHENANTHIA? VIANUS	1	1	4.5		SL	3	2	4.2	4.0- 4.5	SL		1.3
LEICSTOMUS XANTHURUS	7	7	2.9	2.2- 3.4	SL	7	7	2.8	2.3- 3.1	SL		4.4
MICROPOGON UNDULATUS	23	23	4.0	2.5- 8.8	SL							7.7
PRICNOTUS CAROLINUS	1	1	4.5		SL	34	34	3.7	2.5- 6.7	SL		11.6
ACTHUS OCELLATUS	33	27	5.2	2.2-13.2	SL	33	31	4.7	2.3- 8.7	SL		20.9
ETROPUS MICROSTOMUS	16	16	3.6	2.7- 5.1	SL	26	26	4.0	2.7- 7.9	SL		13.5
SCOPHTHALMUS AQUOSUS	1	1	4.2		SL							0.3
SYACIUM PAPILLOSUM	3	3	5.0	4.3- 5.4	SL	8	8	5.2	3.2-12.2	SL		3.6
SYMFHURUS SP.	8	8	4.4	3.2- 7.2	SL	6	6	4.7	3.3- 5.6	SL		4.4
ADDITIONAL LARVAE CAUGHT	CONGRICAE					MORINGUIDAE						
	OPHICHTHIDAE					CONGRICAE						
	SYNDONTIDAE					STOMIATIDAE						
	PARALEPICAE					SYNDONTIDAE						
	BREGMACEROTIDAE					CHLOROPHTHALMICAE						
	OPHIDIIDAE					PARALEPIDIDAE						
	SERRANIDAE					BREGMACEROTICAE						
	CARANGIDAE					OPHIDIIDAE						
	POMACENTRIDAE					SERRANIDAE						
	LABRIDAE OR SCARIDAE					CARANGIDAE						
	BLENNIIDAE					SPARIDAE						
	CALLIONYMIDAE					CHAETODONTICAE						
	GOBIIDAE					POMACENTRIDAE						
	TRIGLIDAE					LABRIDAE OR SCARIDAE						
	UNIDENTIFIED					SPHYRAENICAE						
						CALLIONYMIDAE						
						GOBIIDAE						
						TRIGLIDAE						
						UNIDENTIFIED						
.....												
P 1 15 11	SAMPLING DEPTH 0- 6M											
MYRCPHIS PUNCTATUS	2	2	50.7	47.0-54.5	TL							0.2
ANCHOA HEPSETUS	3	3	7.9	4.4- 9.7	TL							0.4
MICROPOGON UNDULATUS	25	25	9.3	4.8-11.6	SL							3.0
SYMFHURUS SP.	1	1	13.3		SL							0.1
ADDITIONAL LARVAE CAUGHT	ANGUILLA RESTRATA											
	SPARIDAE											
	GOBIIDAE											
	UNIDENTIFIED											
.....												
P 2 15 11	SAMPLING DEPTH 0- 6M											
CALLECHELYS PERRYAE	9	9	66.1	61.5-74.5	NL							1.1
MYRCPHIS PUNCTATUS	9	9	64.3	60.7- 73.2	TL							1.1
OPHICHTHUS OCELLATUS	1	1	75.5		TL							0.1
ANCHOA HEPSETUS	2	2	11.6	10.1-13.1	TL							0.2
UFOPHYCIS SP.	1	1	3.6		NL							0.1
MICROPOGON UNDULATUS	133	131	9.3	3.3-11.5	SL							16.1
PRICNOTUS CAROLINUS	1	1	4.2		SL							0.1
PARALICHTHYS DENTATUS	1	1	4.2		SL							0.1
SCOPHTHALMUS AQUOSUS	5	5	4.4	3.5- 5.6	SL							0.6
SYMFHURUS SP.	3	3	14.8	14.3- 15.6	SL							0.4
ADDITIONAL LARVAE CAUGHT	SPARIDAE											
	GOBIIDAE											
	UNIDENTIFIED											
.....												
P 3 15 11	SAMPLING DEPTH 0- 6M											
CALLECHELYS PERRYAE	4	4	65.9	59.5- 71.0	NL							0.5
MYRCPHIS PUNCTATUS	4	4	65.9	61.3- 70.5	TL							0.5
OPHICHTHUS OCELLATUS	1	1	70.8		TL							0.1
ANCHOA HEPSETUS	3	3	17.1	15.5- 20.1	TL							0.4
ENGRAULIS EURYSTOLE	15	15	6.5	4.0- 9.3	TL							1.8
UFOPHYCIS SP.	18	17	4.8	3.1- 7.8	NL							2.2
LEICSTOMUS XANTHURUS	1	1	4.4		SL							0.1
MICROPOGON UNDULATUS	250	247	5.1	2.9- 10.1	SL							20.3
PRICNOTUS CAROLINUS	9	9	4.5	3.5- 6.5	SL							1.1
ETROPUS MICROSTOMUS	2	2	7.9	4.6-11.1	SL							0.2
PARALICHTHYS DENTATUS	4	4	3.3	2.8- 3.6	SL							0.5
SCOPHTHALMUS AQUOSUS	3	3	2.6	2.2- 3.0	SL							0.4
ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE											
	CALLIONYMICAE											
	GOBIIDAE											
	UNIDENTIFIED											

