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

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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
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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 10m^2 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 495m^3 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

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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 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
Elopiiformes										
Elopidae										
Elops saurus		4/3			6/1	3/2	2/1		1/1	7/4
<u>Megalops atlantica</u>										
Albulidae										
<u>Albula vulpes</u>						3/2				
Anguilliformes										
Anguillidae										
<u>Anguilla rostrata</u>		+2	+15	+3	+3	+1	+4		+3	
Moringuidae										
spaghetti eels			+1						+1	+1
Muraenidae										
morays		+1	+2	+1	+4	+5	+5		+7	+2
Congridae										
conger eels			+1		+1	+2			+2	+2
snake eels		+5	+3		+5	2+/3	+17	+1	+5	1+3
key worm eel		1/1			1/1					
finless eel						1/1			1/1	
shorttail snake eel			1/1			1/1	3/2		2/1	40/8
sailfin eel							1/1			
goldspotted eel			1/1							
snake eel						1/1			4/3	
speckled worm eel									2/1	42/9
shrimp eel		2/1		1/1	2/2	12/4	4/4		15/7	
blackpored eel		2/2	1/1							1/1
palespotted eel		8/3	3/3	2/1	1/1	1/1	1/1		2/1	7/6
snake eel					1/1					1/1
<u>Pisodonophis cruentifer</u>							23+/11	6+/5		
Nettastomatidae			+3				+2		+1	
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 sadina</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	216/16	453/33	171/11
Salmoniformes										
Gonostomatidae										
	<u>Cyclothone sp.</u>	+1		+8	+4	+8	+8		+10	+4
	<u>Maurollicus sp.</u>	+3	+2	+1	+1	+2	+1		+1	
	<u>Vinciguerria sp.</u>	+3	+2	+3		+2				+4
Stomiidae										
		+12	+3	+8	+11	+13	+18	+2	+16	+10
Synodontidae										
		+1		+2		+1				+2
Chlorophthalmidae										
		+6	+4	+4	+4	+6	+3	+1	+5	+5
Paralepididae										
	<u>Sudis sp.</u>	2+2	6+2	14/4	26+10	53+15	2+4		4/2	+2
Myctophidae										
	<u>Benthoosema sp.</u>				5/4		2/2			
	<u>Benthoosema glaciale</u>			2/1	9/3	151/16			5/3	1/1
	<u>Benthoosema suborbitale</u>	4/1	2/2	1/1		2/1				7/3
	<u>Ceratoscopelus sp.</u>				14/3					
	<u>Ceratoscopelus maderensis</u>	5/4	6/3	119/6	23/7	79/11	276/11	10/2	36/11	68/14
	<u>Ceratoscopelus warmingi</u>	61/5	2/2	199/6	39/4	52/6	3/3		8/6	12/4
	<u>Diaphus sp.</u>	14/4	9/6	39/4	45/4	40/6	7/4	6/2	34/10	33/5

TABLE 1. (continued)

[illegible]

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> *	pollock		139/2	11/8	6/4					31/10
<u>Urophycis</u> sp.	unident. hake	739/42	80/9	10/3	15/6	4/2	252/5	15110/26	11405/63	1187/60
<u>Urophycis</u> chuss	red hake				1/1	54/22	3425/44	1167/8		
<u>Urophycis floridanus</u>	southern hake	3/1								
<u>Urophycis regius</u>	spotted hake		11/4							
Merlucciidae										
<u>Merluccius bilinearis</u> *	silver hake	209/26			2/3	585/23	2989/34	3877/28	3187/42	407/38
Ophidiidae	cusk eels or brotulas	+8	+9	+5	+11	+10	+52	+15	+65	+11
Carapidae	pearlfishes	+3	+4		+2	+1	+7		+6	
Atheriniformes										
Exocoetidae	flyingfishes or halfbeaks			+1	+1	+1				
Atherinidae	silversides				+1	+2	+1		+2	
Beryciformes										
Holocentridae	squirrelfishes				+4	+2				
Zeiformes										
Caproidae	boarfishes			+1	+1	+2	+1		+1	
Gasterosteiformes										
Fistulariidae	cornetfishes	+1			+1	+2			+2	+1
Syngnathidae	pipefishes or seahorses	+9	+2	+4	+5	+9	+9	+1	+10	+5
Perciformes										
Serranidae	sea basses	+9	+7	+8	+9	+8	+13		+19	+8
<u>Centropristis striata</u>	black sea bass					3/2	123/15	1/1	17/10	4/3
<u>Hemanthias vivanus</u>	red barbler	11/5	11/3	18/6	12/4	22/5	2/2		37/8	21/4
<u>Plectranthias garrupellus</u>		1/1	3/2	2/1						
<u>Serraniculus pumilio</u>	pygmy sea bass						2/1			

TABLE 1. (continued)

T A X O N	65-4									
	Dec	Jan-Feb	Apr	May	June	Aug	Sept	Sept-Oct	66-14	
Grammistidae	+1	+1	+2	+2		+6		+1	+1	
Priacanthidae				+2		+2		+2	+1	
Apogonidae	+1	+1	+1	+6	+6	+2		+6	+4	
Branchiostegidae										
<u>Malacanthus sp.</u>				+2	+1	+2		+1		
Pomatomidae										
<u>Pomatomus saltatrix</u>	1/1			25/5		1621/25	2/2	2/1		
Carangidae	+4	+4	+5	+9	+11	+15	+1	+10	+8	
Coryphaenidae	+1		+2	+6	+3	+1		+1		
Sparidae	+14	+8	+7	+14	+2	+3		+2	+10	
Sciaenidae										
<u>Cynoscion sp.</u>				3/2	+3	+8		+2		
<u>Larimus fasciatus</u>				7/4	93/11	3/2				
<u>Leiostomus xanthurus</u>			1/1	3/2	5/4	90/14		21/9		
<u>Menticirrhus sp.</u>	1749/18	406/14	24/6	4/1	58/12	48/15			55/8	
<u>Micropogon undulatus</u>	603/21	33/9	2/2			265/18		441/20	1025/19	
Chaetodontidae	+3		+1	+2		+1		+1	+1	
Pomacentridae			+3	+3	+3	+2		+3	+2	
Labridae or Scaridae										
<u>Tautoga onitis</u>	+7	+4	+5	+11	+9	+19	+3	+11	+7	
<u>Tautoglabrus adspersus</u>				81/9	152/20	67/5	5/2			
					3467/22	693/32	16/7			
Mugilidae	+6	+3	+1	+8	+4			+3	+5	

TABLE 1. (continued)

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

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

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										
Balistidae	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 YY MM	TIME HH:MM	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (0/000) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
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	-	30.0-30.2	30.1	30.0	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	-	30.2-30.5	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	-	29.6-29.2	29.1	29.2	4019 73 02	0702 1630
C 5	18-33	4 12	0312	NIGHT	38	8.4-8.4	8.4	8.4	8.4	NONE	-	29.7-30.0	29.8	29.2	4019 73 02	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	9.5-9.9	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	9.5-9.9	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	-	29.5-30.1	30.0	29.9	3934 72 22	0654 1626
C 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	0706 1635
C 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
C 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 1622
C 4	0-15	5 12	1905	NIGHT	33	8.5-8.5	8.5	8.5	8.5	NONE	-	29.2-29.7	29.5	29.7	3939 73 43	0700 1631
C 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
C 5	0-15	5 12	2049	NIGHT	27	9.3-9.3	9.3	9.3	9.3	NONE	-	29.5-30.0	29.8	29.5	3932 73 32	0655 1630
C 5	18-33	5 12	2049	NIGHT	27	9.3-9.3	9.3	9.3	9.3	NONE	-	29.6-29.9	29.8	29.5	3932 73 33	0659 1630
C 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
C 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
C 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
C 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
C 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	0655 1628
C 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	0655 1628
E 1	0-6	7 12	0206	NIGHT	13	7.5-7.9	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
E 3	0-6	7 12	0012	NIGHT	19	8.8-8.8	8.8	8.8	8.8	NONE	-	29.2-29.4	29.3	29.2	3911 74 20	0702 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 1624
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	1749	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	1749	NIGHT	42	9.4-9.4	9.4	9.4	9.4	NONE	-	29.2-29.5	29.3	29.2	3854 73 49	0659 1633
E 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	29.8	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	-	29.5-30.5	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	-	29.4-29.6	29.5	29.3	3840 74 52	0705 1628
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 57	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 57	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	0119	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	1726	NIGHT	25	10.1-10.2	10.2	10.1	10.2	NONE	-	31.8-32.2	32.0	32.2	3756 74 46	0702 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	0622	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	10.0-10.0	10.0	10.0	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	1405	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	-	33.8-34.0	33.9	33.8	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	-	33.5-34.0	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	1909	NIGHT	9	9.8-10.0	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	10.0-10.0	10.0	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	65	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											

TABLE 2. (continued)

CRUISE STA.	TOW DEPTH [M]	DATE 1965 O M	TOW START FST	LIGHT COND.	WATER DEPTH [M]	***** RANGE	TEMPERATURE MEAN	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH [M]	**** RANGE	SALINITY 10/00 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RIS [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 75 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 75 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 75 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 75 46	0702 1644
L 1	0-6	13 12	1939	NIGHT	18	11.3-11.5	11.4	11.3	11.7	NONE	-	33.8-34.6	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	0703 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	-	32.8-33.9	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 75 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 75 52	0701 1646
M 1	0-3	14 12	1838	NIGHT	12	12.4-12.4	12.4	12.4	12.5	NONE	-	34.1-34.4	34.2	34.1	3518 75 29	0702 1651
M 2	0-9	14 12	1720	NIGHT	18	12.6-12.7	12.6	12.7	12.6	NONE	-	-	-	-	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	0702 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	-	36.2-36.3	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	1925	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 75 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 75 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 75 13	0703 1657

TABLE 2. (continued)

CRUISE 06601 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	ICI SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (10/CO)	**** PLAN	SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	26 1	1627	DAWN	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	0702 1656	
B 3	18-33	26 1	0429	NIGHT	48	3.2- 3.2	2.2	3.2	3.2	NONE	-	32.3-32.4	32.3	32.3	4054 7147	0702 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	32.2	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	35	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	35	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	-	32.8-33.0	32.9	32.9	3939 7343	0700 1718	
D 5	0-15	4 2	2220	NIGHT	37	2.5- 2.9	2.9	2.9	2.9	NONE	-	32.9-33.1	32.9	32.8	3932 7332	0655 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 7315	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	32.6	3923 7315	0658 1716	
D 7	0-15	4 2	1016	DAY	70	4.8- 4.8	4.8	4.8	7.1	WEAK	47-55	32.5-33.3	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	0927	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	0625	DAWN	30	1.3- 1.3	1.3	1.3	1.3	NONE	-	32.5-32.3	32.9	33.0	3905 7405	0700 1722	
E 5	0-15	5 2	0804	DAY	37	2.5- 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	3.5- 3.9	3.9	3.9	3.9	NONE	-	32.7-33.7	33.1	32.6	3854 7345	0656 1720	
E 6	18-24	5 2	0933	DAY	42	3.9- 3.9	3.9	3.9	3.9	NONE	-	33.5-34.0	33.9	32.6	3854 7349	0658 1720	
E 7	0-15	5 2	1126	DAY	66	4.8- 4.9	4.8	4.8	6.4	GRADUAL	-	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	GRADUAL	-	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	-	33.6-33.6	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	-	32.6-32.2	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	0655 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	-	32.3-34.3	32.7	33.3	3821 7413	0655 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	1046	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	-	32.3-33.5	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	3156 7448	0655 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	0655 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	0656 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	0656 1727	
H 1	0-6	7 2	0253	NIGHT	11	-0.2- 1.4	-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 7456	0655 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																	

TABLE 2. (continued)

CRUISE [6601 STA.]	TOW DEPTH [M]	DATE 1966 D P	TOW START FST	LIGHT COND.	WATER DEPTH [M]	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** 80Y.	THERMOCLINE DEGREE	DEPTH [M]	**** RANGE	SALINITY [0/00] MEAN	**** SURF.	POSITION LAT. LONC.	** SUN ** RISE SET
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 1734
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	CAY	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	25	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	-	33.6-33.7	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 1726
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	2322	NIGHT	22	3.4-3.8	3.5	3.8	3.4	NONE	-	32.6-32.6	32.6	32.6	3622 7536 0655 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 7456 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 7456 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 1726
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 1723
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 1723
M 1	0-6	8 2	1633	DAY	13	3.2-3.4	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 7516 0655 1726
M 4	0-15	8 2	1915	NIGHT	42	5.3-5.4	5.3	5.4	5.3	NONE	-	32.2-32.2	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	-	33.0-33.1	33.1	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 0652 1726
N 2	0-15	9 2	0126	NIGHT	24	7.9-8.6	8.1	7.9	8.6	GRADUAL	-	32.7-32.1	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 7546 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	CAY	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)

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CRUISE STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START -EST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN	(C) SURF.	***** BOT.	TEMPERATURE DEGREE	LINE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
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 7348	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 7347	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 7346	0519 1813
A 4	0-15	6 4	2228	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	2228	NIGHT	51	2.8-3.2	3.0	3.6	2.8	NONE	-	29.4-32.4	30.5	32.0	4057 7344	0519 1813
A 5	0-15	7 4	0029	NIGHT	62	3.6-3.7	3.7	3.7	2.7	NONE	-	32.0-32.4	32.0	32.0	4047 7042	0518 1814
A 5	18-33	7 4	0029	NIGHT	62	3.0-3.5	3.5	3.1	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 7340	0518 1814
A 6	18-33	7 4	0208	NIGHT	73	3.3-3.4	3.4	3.7	2.7	NONE	-	32.3-33.7	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 7337	0517 1812
A 7	18-33	7 4	0355	NIGHT	111	2.9-3.3	3.2	3.6	3.9	NONE	-	33.5-32.8	32.6	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	35	6.2-6.6	6.4	6.4	6.1	NONE	-	31.7-32.2	32.1	31.6	4058 7145	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	-	25.6-30.9	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	-	31.0-32.5	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	1055	DAY	87	4.4-4.7	4.6	4.7	2.8	GRADUAL	-	32.2-32.2	32.2	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	55	3.4-3.5	3.5	3.9	3.3	NONE	-	33.4-33.6	33.5	32.4	4005 7125	0521 1816
C 1	0-15	8 4	0055	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	3.5-4.1	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	-	33.6-34.3	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	0525 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	-	33.5-32.7	32.6	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	-	31.4-32.7	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	0525 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	-	33.4-32.9	32.6	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	-	33.6-34.4	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 7302	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	31.2-34.1	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	0511 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 7405	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 7345	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	-	31.6-32.1	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	5.8-5.8	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	32.4	32.1	3813 7357	0523 1831
F 7	18-33	14 4	1910	NIGHT	70	4.5-5.2	5.0	5.0	5.4	NONE	-	32.5-32.6	32.6	32.1	3813 7357	0523 1831
G 1	0-6	15 4	0655	DAY	15	6.5-6.9	6.9	6.9	6.9	NONE	-	29.9-30.1	30.0	29.9	3807 7505	0526 1837
G 2	0-6	15 4	0654	NIGHT	16	6.7-6.7	6.7	6.7	6.3	NONE	-	30.6-30.8	30.7	30.6	3804 7504	0525 1836
G 3	0-15	15 4	0323	NIGHT	24	6.0-6.1	6.1	6.1	6.0	NONE	-	31.3-32.1	31.9	31.2	3801 7459	0525 1836

TABLE 2. (continued)

CRUISE D6603 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW STAR EST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) 80T.	***** DEGREE	THERMOCLINE DEPTH (M)	**** FAGE	SALINITY (0/00) MEAN	**** SURF.	***** LAT.	***** LONG.	** 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	0526 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
H 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	7456	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	0925	DAY	19	8.5-8.5	8.9	8.9	8.5	GRADUAL	-	31.6-31.8	31.8	31.8	3654	7545	0528 1838
J 4	0-6	16 4	0717	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	8.5-10.4	9.7	10.4	8.9	GRADUAL	-	30.2-31.4	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	1823	DUSK	32	7.6-8.9	8.2	8.9	7.5	GRADUAL	-	31.6-32.3	32.2	31.9	3622	7522	0524 1839
K 5	0-15	19 4	1953	NIGHT	37	8.1-8.8	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	7456	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	0625	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	0522 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	-	32.1-32.2	32.2	32.3	3545	7452	0520 1837
M 1	0-6	20 4	1001	DAY	16	11.2-11.6	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	7522	0524 1839
M 3	0-6	20 4	1148	DAY	25	10.6-11.5	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	13.3-15.2	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	18.5-19.5	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	7557	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	9.5-12.5	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	20.5-21.0	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	18.5-20.8	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	7533	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	7612	0527 1841

TABLE 2. (continued)

CRUISE NO.	TOW DEPTH (M)	DATE 1966 D M	TOW FAST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (10/CO) MEAN	**** SURF.	***** 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 7048	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 7047	0426 1851
A 7	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 7047	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	31.6	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	5.6-6.3	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	32.2-32.7	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	32.0-33.3	33.2	33.1	4032 7040	0425 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 7037	0426 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
P 1	0-9	13 5	2133	NIGHT	22	7.1-8.3	6.0	8.3	7.2	GRADUAL	-	30.2-31.2	30.6	30.1	4103 7151	0431 1856
P 2	0-15	13 5	2039	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
P 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
P 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
P 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
P 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
P 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	0433 1854
P 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	0433 1854
P 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
P 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
P 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	0433 1852
P 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	0433 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 7317	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 7314	0438 1901
C 3	0-15	14 5	1935	NIGHT	25	7.5-6.4	6.2	6.4	7.4	NONE	-	32.0-32.1	32.0	32.1	4027 7310	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 7310	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 7302	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	32.7-32.7	32.6	32.6	3558 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	3558 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	3546 7232	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	3534 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	9.8-9.8	9.8	9.8	9.8	NONE	-	31.5-31.7	31.6	31.5	3548 7359	0440 1504
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	3539 7343	0440 1903
D 5	0-15	16 5	2332	NIGHT	40	8.4-8.7	8.6	8.7	7.8	NONE	-	31.5-32.4	32.1	32.1	3932 7332	0435 1502
D 5	18-24	16 5	2332	NIGHT	40	7.8-8.0	7.8	8.7	7.8	NONE	-	31.3-31.7	31.6	32.1	3532 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	0436 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	3514 7302	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	0436 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	0436 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	3517 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	9.2	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 7355	0442 1903
E 5	18-24	17 5	2153	NIGHT	37	8.4-8.6	8.4	9.1	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	3854 7349	0441 1902
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	-	26.7-29.1	28.9	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	-	25.7-29.9	29.8	29.7	3843 7458	0446 1507
F 3	0-15	18 5	1605	DAY	25	10.7-12.2	11.4	12.2	10.0	GRADUAL	-	25.8-30.5	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 1506
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

TABLE 2. (continued)

CRLSF 06605 STA.	TOW DEPTH (M)	DATE 1966 O M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** THERMOCLINE DEGREE	DEPTH (M)	**** SALINITY (0/00) RANGE	**** PEAK SURF.	***** POSITION LAT. LONG.	** RISE	** SET
G 5	18-33	19 5	0845	DAY	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
E 6	18-33	19 5	0502	DAY	90	5.3- 6.8	5.8	8.4	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	11.4-12.4	12.8	13.4	11.4	WEAK	6-14	31.4-31.8	31.6	31.4	3732 7528 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	10.6-10.9	10.6	10.9	9.8	GRADUAL	-	31.3-31.6	31.4	31.3	3727 7510 0446 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	8.4	WEAK	6- 9	32.5-32.6	32.6	32.1	3723 7456 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	8.5- 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	13.6-14.7	13.7	14.7	13.0	STRONG	3- 4	28.4-28.7	28.6	28.3	3655 7558 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	15	13.6-16.9	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	0117	NIGHT	23	10.1-16.7	13.3	16.7	10.1	WEAK	2-11	25.8-32.2	31.5	29.8	3653 7533 0451 1906
J 5	0-15	20 5	0620	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 0446 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 0446 1904
J 7	0-15	20 5	1513	DAY	79	9.2-10.4	9.7	10.4	6.4	GRADUAL	-	32.3-32.6	32.5	32.4	3648 7444 0446 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	0115	NIGHT	18	12.6-16.3	14.4	16.3	11.8	STRONG	1- 6	25.7-30.4	30.1	29.7	3623 7548 0452 1907
K 2	0- 6	21 5	0302	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 7456 0445 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	0343	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	9.6-10.8	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	-	-	31.5-31.6	31.5	30.1	3545 7452 0449 1902
M 1	0- 6	23 5	1038	DAY	14	15.6-15.6	15.0	15.0	14.8	NONE	-	30.6-30.6	30.2	30.0	3518 7529 0452 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 0452 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	21.6-21.5	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	3501 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	26.6-26.6	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
P 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 0455 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 7537 0455 1908
P 3	0- 6	24 5	1726	DAY	16	19.6-15.8	19.8	19.8	19.8	NONE	-	33.5-33.8	33.7	33.5	3425 7630 0456 1908
P 4	0-15	24 5	1904	DUSK	27	20.7-20.8	20.8	20.8	21.1	NONE	-	34.7-35.0	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)

29

CRUISE NO. 607 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (F)	***** 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	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 7348	0405 1918
A 2	0-15	17 6	0927	DAY	33	10.8-13.9	13.3	13.9	8.9	STRONG	12-18	31.5-32.6	32.1	31.9	4112 7047	0410 1918
A 3	0-15	17 6	1037	DAY	38	9.6-14.1	12.0	14.1	8.1	WEAK	9-16	31.9-32.0	31.9	31.9	4107 7046	0410 1518
A 3	13-24	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	6.2-8.6	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	1633	DAY	62	10.6-15.0	14.1	15.0	5.4	STRONG	11-19	31.2-32.1	31.6	31.2	4047 7042	0411 1917
A 5	19-33	17 6	1633	DAY	62	5.8-6.1	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	16-30	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	16-30	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
P 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
P 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
P 2	18-24	18 6	1522	DAY	44	8.2-10.3	5.5	14.0	7.2	WEAK	6-12	31.0-31.5	31.2	30.3	4058 7149	0414 1922
P 3	0-15	18 6	1425	DAY	52	6.4-13.7	11.3	13.7	5.9	STRONG	10-14	30.3-31.6	31.0	30.6	4054 7147	0415 1921
P 3	18-33	18 6	1425	DAY	52	5.5-6.4	6.3	13.7	5.9	STRONG	10-14	31.7-32.1	31.9	30.6	4054 7147	0415 1921
P 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
P 4	18-33	18 6	1302	DAY	63	6.1-5.6	7.0	15.4	5.1	STRONG	12-20	31.7-32.2	32.0	31.2	4044 7144	0415 1921
P 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
P 5	18-33	18 6	0936	DAY	76	6.3-8.2	7.1	14.8	4.5	STRONG	10-15	31.7-32.0	31.8	30.6	4034 7140	0416 1920
P 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 1919
P 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 1919
P 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 7125	0416 1917
P 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 7125	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	5.9	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	10.8-15.3	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	3558 7244	0422 1922
C 6	18-33	19 6	1421	DAY	59	5.2-8.2	6.3	15.6	5.0	STRONG	10-17	31.3-32.1	31.8	30.6	3558 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	6.1-5.1	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	3534 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	3534 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 7355	0426 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	1229	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 5	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 5	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 5	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 5	0744	DAY	57	8.3-11.3	8.8	16.8	7.1	STRONG	14-20	31.5-32.2	31.9	25.5	3923 7319	0426 1923
D 7	0-15	20 5	0525	DAY	75	11.1-15.6	14.2	15.6	4.4	WEAK	8-25	30.5-31.5	31.2	30.9	3914 7303	0425 1926
D 7	18-33	20 5	0525	DAY	75	6.7-9.7	7.6	15.6	4.4	WEAK	8-25	31.6-32.1	31.9	30.5	3914 7303	0425 1926
D 8	0-15	20 5	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 5	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	15.8-17.1	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	17.7-15.4	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	0409	DAWN	27	13.7-19.3	16.4	19.3	10.6	GRADUAL	-	31.5-31.9	31.7	31.5	3905 7409	0432 1927
E 5	0-15	29 6	0247	NIGHT	40	13.2-18.7	17.5	18.7	8.0	WEAK	8-20	31.2-31.9	31.6	31.8	3859 7355	0432 1926
E 5	18-33	29 6	0247	NIGHT	40	7.5-10.6	8.5	18.7	8.0	WEAK	8-20	31.8-32.3	32.2	31.8	3859 7355	0432 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 5	2340	NIGHT	68	13.5-18.5	17.6	18.5	5.2	WEAK	10-33	31.6-31.5	31.8	31.8	3845 7333	0431 1923
E 7	18-33	28 5	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 5	2125	NIGHT	151	12.7-19.4	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 5	2125	NIGHT	151	6.2-11.8	8.4	18.4	8.0	WEAK	8-28	32.2-33.4	32.2	32.2	3836 7318	0430 1922
F 1	0-6	28 6	0833	DAY	17	18.5-18.5	18.5	18.5	18.5	NONE	-	30.6-30.5	30.8	30.8	3846 7503	0437 1929
F 2	0-6	28 6	0917	DAY	24	18.5-18.7	18.6	18.7	14.9	GRADUAL	-	30.3-30.6	30.5	30.3	3843 7458	0437 1929
F 3	0-15	28 6	1002	DAY	27	14.0-15.9	17.5	15.9	13.3	WEAK	3-17	30.8-31.9	31.3	30.7	3840 7452	0436 1928
F 4	0-15	28 6	1122	DAY	23	12.2-19.3	16.9	19.3	12.2	STRONG	6-14	30.8-31.6	31.2	30.7	3835 7441	0436 1927
F 5	0-15	28 6	1245	DAY	39	14.0-15.8	17.3	19.8	8.2	WEAK	7-11	31.1-31.8	31.3	31.0	3829 7430	0436 1926
F 5	18-33	28 6	1245	DAY	39	8.2-12.4	5.8	15.8	8.2	WEAK	7-11	31.6-32.3	32.1	31.0	3829 7430	0436 1926
F 6	0-15	28 6	1424	DAY	58	12.4-19.9	16.0	19.9	6.2	WEAK	3-24					

TABLE 2. (continued)

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CRUISE STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (10/100) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
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	32.1	32.4	3742 7422	C43E 1924
G 6	18-33	27 6	2153	NIGHT	88	5.3-12.5	8.1 18.4	6.2	WEAK	7-30	32.9-33.5	33.1	32.4	3742 7422	C43E 1924
H 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 7532	C44E 1927
H 2	0-6	27 6	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	C44E 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	C44E 1926
H 4	0-15	27 6	1319	DAY	27	14.5-20.7	18.5 20.7	13.7	WEAK	5-15	31.1-31.4	31.3	31.3	3727 7510	C44E 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	C44E 1926
H 5	0-15	27 6	1145	DAY	36	15.4-15.3	18.0 19.3	11.4	GRADUAL	-	31.6-31.7	31.7	31.7	3723 7458	C44E 1925
H 5	18-33	27 6	1145	DAY	36	11.5-14.6	12.8 19.3	11.4	GRADUAL	-	31.8-32.1	32.0	31.7	3723 7458	C44E 1925
H 6	0-15	27 6	0954	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	C44E 1924
H 6	18-33	27 6	0805	DAY	88	6.1-16.3	7.8 18.6	6.2	WEAK	0-30	32.1-32.5	32.3	32.1	3718 7440	C44E 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	C43E 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	C43E 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 7558	C44E 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	C44E 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	C44E 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 7532	C44E 1925
J 5	0-15	26 6	2029	NIGHT	29	13.2-20.1	17.4 20.1	12.9	GRADUAL	-	31.4-31.8	31.6	31.7	3652 7521	C44E 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	31.9	3650 7502	C44E 1923
J 6	18-24	27 6	2229	NIGHT	36	12.3-14.3	13.3 18.5	11.6	GRADUAL	-	31.9-32.1	32.0	31.9	3650 7502	C44E 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	C44E 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	C44E 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	C44E 1925
K 2	0-15	26 6	0437	DAY	23	13.5-21.4	17.4 21.4	13.9	GRADUAL	-	28.9-31.7	30.7	28.9	3623 7542	C44E 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	C44E 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	C44E 1924
K 4	18-24	26 6	0218	NIGHT	30	13.9-15.2	14.4 19.5	13.8	GRADUAL	-	31.8-31.9	31.9	31.4	3622 7523	C44E 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	C44E 1923
K 5	18-24	25 6	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	C44E 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	C44E 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	C44E 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	C44E 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	C44E 1921
L 1	0-6	23 6	0102	NIGHT	16	18.9-19.4	19.2 19.4	18.3	GRADUAL	-	29.2-29.4	29.2	29.2	3546 7530	C44E 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	C44E 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	C44E 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	C44E 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	C44E 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	C44E 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	C44E 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	C44E 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 7525	C44E 1920
M 2	0-15	23 6	1805	DAY	21	19.8-22.1	20.3 19.8	22.1	GRADUAL	-	31.5-34.4	32.1	31.5	3518 7523	C44E 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 7518	C44E 1919
M 4	0-15	23 6	2003	NIGHT	68	25.2-26.2	25.8 26.2	23.3	GRADUAL	-	36.6-36.8	36.7	36.6	3512 7512	C44E 1919
M 4	18-33	23 6	2003	NIGHT	68	23.9-25.1	24.8 26.2	23.3	GRADUAL	-	36.7-36.9	36.8	36.6	3512 7512	C44E 1919
M 5	0-15	23 6	2110	NIGHT	269	25.6-26.6	26.5 26.6	17.3	WEAK	14-20	36.6-36.8	36.7	36.5	3510 7507	C44E 1918
M 5	18-33	23 6	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	C44E 1918
N 1	0-15	24 6	0314	NIGHT	25	23.6-23.6	23.6 23.6	23.3	NONE	-	35.5-35.8	35.7	35.5	3501 7557	C44E 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	C44E 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	C45E 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	C45E 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	C45E 1920
N 5	0-15	24 6	1039	DAY	08	25.3-25.6	25.5 25.6	18.4	GRADUAL	-	36.0-36.2	36.1	36.1	3433 7544	C45E 1919
N 5	18-33	24 6	1039	DAY	08	22.1-25.1	23.7 25.6	18.4	GRADUAL	-	36.1-36.3	36.2	36.1	3433 7544	C45E 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	C45E 1924
P 2	0-6	24 6	2126	NIGHT	18	22.6-23.8	23.3 23.8	22.0	GRADUAL	-	33.3-33.5	33.3	33.3	3434 7537	C45E 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	C45E 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	C45E 1922
P 4	18-24	24 6	1518	DAY	34	22.6-22.7	22.6 24.2	22.7	NONE	-	34.6-35.1	34.9	34.7	3417 7623	C45E 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	C45E 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	C45E 1920

TABLE 2. (continued)

CRUISE NO 61 C STA.	TOW DEPTH (M)	DATE 1965 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** 8DT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	5 8	0402	NIGHT	16	17.3-17.6	17.5 17.6	17.1	NONE	-	30.5-31.0	30.9	30.8	4117 7048	0441 1855
A 2	0-15	5 8	0507	DAY	25	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	12.6-18.8	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	21.2	4057 7044	0442 1855
A 4	19-33	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	32.5-32.9	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	15.5-17.8	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	CAY	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	CAY	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	0820	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	0820	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	30.5-31.1	31.1	30.8	4034 7140	0448 1857
B 5	18-33	6 8	0444	DAWN	73	7.2-18.6	7.7 19.9	5.2	STRONG	16-33	31.3-31.6	31.4	30.8	4034 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	15	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	11.5-20.9	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 7303	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	0455 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	31.1	4010 7255	0455 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	3946 7233	0454 1857
C 7	18-33	7 8	1306	DAY	65	5.7-15.9	8.5 22.4	4.8	STRONG	15-26	31.1-32.6	31.7	31.2	3946 7233	0454 1857
C 8	0-15	7 8	1530	CAY	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	CAY	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 7355	0500 1902
D 3	0-15	8 8	0952	DAY	23	9.6-21.5	15.1 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	0455 1859
D 5	18-24	8 8	1515	CAY	37	8.8-13.3	9.6 22.2	8.6	STRONG	14-19	31.0-31.2	31.1	30.9	3932 7333	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 1859
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 1859
D 7	0-15	7 8	2118	NIGHT	76	17.9-22.7	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	2118	NIGHT	76	6.5-17.1	7.5 22.2	5.0	STRONG	11-24	30.9-31.4	31.2	30.5	3914 7303	0501 1902
D 9	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 9	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	30.5-30.9	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	8 8	0700	DAY	24	20.6-21.9	21.6 21.9	10.1	STRONG	6-15	31.3-31.3	31.3	31.3	3905 7405	0504 1900
E 5	0-15	9 8	1013	DAY	36	20.7-22.2	21.8 22.1	8.7	STRONG	14-21	30.5-31.0	31.0	30.9	3859 7359	0503 1859
E 5	18-24	9 8	1013	CAY	36	9.7-15.4	11.7 22.1	8.7	STRONG	14-21	31.2-31.4	31.3	30.5	3859 7355	0503 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 7345	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 7349	0502 1858
F 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 7332	0501 1856
F 7	18-33	9 8	1405	CAY	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
F 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
F 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	-	31.1-38.8	34.3	38.7	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	-	30.5-31.0	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	30.5-30.9	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	2018	NIGHT	74	20.6-22.6	22.2 22.6	5.5	STRONG	13-26	31.0-31.6	31.3	31.3	3813 7357	0505 1857
F 7	18-33	9 8	2018	NIGHT	74	6.5-16.8	9.4 22.6	5.5	STRONG	13-26	30.0-31.9	31.3	31.3	3813 7357	0505 1857
G 1	0-6	21 8	0537	CAY	11	19.5-21.0	20.4 21.0	16.9	STRONG	4-6	31.1-31.4	31.3	31.1	3807 7509	0521 1847
G															

TABLE 2. (continued)

CRUISE NO. 61 C STA.	TOW DEPTH (M)	DATE 1966 O M	TOW START FST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
G 6	0-15	21 8	1509	OAY	91	19.6-24.6	23.0	24.6	8.8	STRONG	7-30	30.8-31.1	31.0	3742 7422	0516 1843
G 6	18-33	21 8	1509	OAY	91	7.1-16.4	11.0	24.6	8.8	STRONG	7-30	31.4-31.8	31.6	3742 7422	0518 1843
H 1	0-3	22 8	0902	OAY	10	21.1-24.0	22.5	24.0	19.1	STRONG	3-5	30.9-30.9	30.9	3734 7533	0524 1846
H 2	0-15	22 8	1005	OAY	18	14.5-24.5	19.0	24.9	14.5	STRONG	2-7	25.8-30.8	30.4	3732 7528	0524 1846
H 3	0-6	22 8	1055	OAY	24	23.4-25.5	25.0	25.5	13.4	STRONG	5-12	29.9-35.6	32.3	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	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	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	30.6-31.8	31.1	30.9 3716 7434	0519 1842
J 1	0-6	22 8	1623	OAY	15	22.1-25.0	23.7	25.0	19.4	STRONG	3-8	27.3-28.7	27.9	3655 7558	0522 1843
J 2	0-6	22 8	1539	OAY	10	15.4-22.8	18.6	22.8	14.6	STRONG	0-5	28.3-30.8	29.7	3655 7552	0522 1846
J 3	0-6	22 8	1455	OAY	16	17.2-22.8	19.8	22.8	14.5	STRONG	0-7	28.8-30.3	29.6	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	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	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	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	OAY	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	OAY	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	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	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	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	3622 7523	0526 1843
K 4	18-24	23 8	1857	NIGHT	27	10.8-12.5	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	OAY	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	OAY	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	OAY	41	14.4-26.7	22.8	26.7	7.7	STRONG	7-15	30.2-31.2	30.8	30.9 3621 7508	0524 1841
K 6	18-33	23 8	1329	OAY	41	8.1-13.1	10.2	26.7	7.7	STRONG	7-15	31.0-31.2	32.0	30.9 3621 7508	0524 1841
K 7	0-15	23 8	1155	OAY	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	OAY	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	22.8	22.8	23.6	NONE	-	31.0-31.1	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	23	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	OAY	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	OAY	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	OAY	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	OAY	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	OAY	15	25.4-25.4	25.4	25.4	25.4	NONE	-	31.4-31.6	31.5	3518 7525	0525 1839
M 2	0-6	25 8	1307	OAY	17	24.5-25.2	25.1	25.0	23.0	WEAK	7-10	32.1-32.6	32.3	32.6 3516 7523	0525 1839
M 3	0-15	25 8	1400	OAY	25	18.9-25.6	22.0	25.6	19.6	STRONG	4-10	32.6-33.5	33.3	32.6 3514 7518	0528 1838
M 4	0-15	25 8	1502	OAY	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	OAY	54	22.3-23.4	22.7	27.6	22.2	WEAK	7-17	34.6-34.9	34.8	34.7 3512 7512	0528 1838
M 5	0-15	25 8	1608	OAY	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	OAY	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 3501 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	OAY	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	OAY	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	OAY	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	OAY	28	25.5-27.8	27.5	27.8	22.7	WEAK	10-19	34.3-34.5	34.5	34.3 3417 7523	0535 1840
P 5	0-15	26 8	0552	OAY	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	OAY	187	26.7-26.7	26.1	26.4	16.2	GRADUAL	-	35.1-35.4	35.2	33.8 3404 7613	0534 1839

TABLE 2. (continued)

CRUISE D6611 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)	**** RANGE	SALINITY (10/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET	
A 1	0-3	13 9	0927	DAY	19	17.1-17.2	17.2	17.1	NONE	-	31.4-31.4	31.4	4117 7048	0521 1757	
A 2	0-15	13 9	1033	DAY	30	16.6-17.2	16.7	17.2	13.6	GRADUAL	-	31.4-31.5	31.4	4112 7047	0521 1757
A 2	19-24	13 9	1033	DAY	30	14.5-15.8	15.3	17.2	13.6	GRADUAL	-	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	16.2	11.7	GRADUAL	-	31.2-31.7	31.5	4107 7046	0521 1757
A 3	18-24	13 9	1143	DAY	40	13.0-14.6	13.8	16.2	11.7	GRADUAL	-	31.3-31.7	31.5	4107 7046	0521 1757
A 4	0-15	13 9	1315	DAY	45	19.1-15.8	19.6	19.8	9.6	STRONG	19-24	31.9-32.0	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	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	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	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	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	4032 7040	0521 1756
A 7	0-12	14 9	0004	NIGHT	112	19.5-18.8	18.8	18.8	8.3	STRONG	19-40	32.5-32.7	32.5	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	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	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	4058 7149	0526 1759
B 3	0-15	16 9	2333	NIGHT	50	17.0-15.6	15.1	15.6	10.0	STRONG	20-30	32.4-32.5	32.4	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	4054 7147	0528 1755
P 4	0-15	14 9	1643	DAY	63	20.5-21.0	20.9	21.0	8.5	STRONG	18-39	32.0-32.2	32.1	4044 7144	0526 1759
P 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	4044 7144	0526 1759
P 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	4034 7140	0526 1759
P 5	18-33	14 9	1259	DAY	72	14.9-21.6	15.8	21.7	8.3	STRONG	24-45	32.2-32.4	32.3	4034 7140	0526 1759
B 6	0-15	14 9	0904	DAY	82	18.9-18.5	18.9	18.9	9.3	WEAK	18-35	31.9-32.1	32.0	4020 7135	0525 1758
P 6	18-33	14 9	0904	DAY	82	10.5-18.5	15.0	18.9	9.3	WEAK	18-35	32.1-32.3	32.2	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	31.6-32.3	32.2	4005 7129	0525 1757
P 7	19-33	14 9	0357	NIGHT	54	8.2-14.0	10.5	18.6	9.9	WEAK	10-35	31.7-32.2	31.9	4005 7125	0525 1757
C 1	0-5	17 9	0750	DAY	17	19.8-19.9	19.9	19.8	19.9	NONE	-	31.2-31.5	31.4	4035 7317	0535 1800
C 2	0-15	17 9	0658	DAY	27	19.3-15.5	15.5	19.9	18.7	NONE	-	31.0-31.6	31.2	4031 7314	0535 1800
C 3	0-15	17 9	0607	DAY	34	19.1-19.6	15.4	15.6	18.5	GRADUAL	-	31.3-31.5	31.4	4027 7310	0535 1800
C 3	18-24	17 9	0607	DAY	34	18.6-15.0	18.9	19.6	18.5	GRADUAL	-	31.2-31.4	31.3	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	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	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	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	4010 7255	0534 1759
C 6	0-15	17 9	1923	NIGHT	57	20.2-20.8	20.4	20.8	6.2	STRONG	17-28	32.0-32.1	32.0	3958 7244	0532 1758
C 6	18-33	17 9	1923	NIGHT	57	7.8-19.4	12.7	20.8	6.2	STRONG	17-28	31.2-31.9	31.6	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	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	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	3934 7222	0532 1756
C 8	19-33	17 9	2349	NIGHT	315	19.4-20.8	20.5	20.8	10.9	STRONG	32-40	32.5-33.1	33.0	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	3951 7404	0542 1805
C 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	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	3945 7354	0535 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	3939 7343	0536 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	3939 7343	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	3932 7333	0537 1759
C 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	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	3923 7315	0536 1758
D 6	18-33	18 9	0743	DAY	54	7.5-11.6	8.4	20.9	7.3	STRONG	11-23	30.7-31.2	30.9	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	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	3914 7303	0535 1801
C 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	3906 7250	0534 1756
D 8	19-33	18 9	0324	NIGHT	118	13.7-21.2	18.9	20.2	10.5	STRONG	24-35	31.9-33.0	32.5	3906 7250	0534 1756

TABLE 2. (continued)

CRUISE D6612 STA.	TOW DEPTH [M]	DATE 1965 D M	TOW START FST	LIGHT COND.	WATER DEPTH [M]	***** RANGE	TEMPERATURE [C] MEAN SURF.	***** BOT.	THERMOCLINE DEGREE DEPTH [M]	**** SALINITY 10/00 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	15 10	0302	NIGHT	17	14.3-14.3	14.3	14.3	14.2	NONE	-	31.1-31.1 31.1	31.0 4117 7048 0555 1703
A 2	0-15	15 10	0209	NIGHT	30	14.0-14.3	14.2	14.3	12.9	NONE	-	31.2-31.3 31.2	31.2 4112 7047 0554 1703
A 2	18-24	15 10	0209	NIGHT	30	13.2-13.5	13.6	14.3	12.9	NONE	-	31.3-31.5 31.4	31.2 4112 7047 0554 1703
A 3	0-15	15 10	0109	NIGHT	39	14.1-14.4	14.3	14.4	11.0	WEAK	21-26	31.1-31.2 31.2	31.1 4107 7046 0554 1703
A 3	18-33	15 10	0109	NIGHT	39	11.0-13.9	12.1	14.4	11.0	WEAK	21-26	31.1-31.4 31.2	31.1 4107 7046 0554 1703
A 4	0-15	15 10	0615	DAY	49	14.2-14.3	14.2	14.3	10.1	STRONG	30-35	31.0-31.3 31.2	31.1 4057 7044 0554 1703
A 4	18-33	15 10	0615	DAY	49	11.8-14.2	13.9	14.3	10.1	STRONG	30-35	31.2-31.3 31.2	31.1 4057 7044 0554 1703
A 5	0-15	15 10	0743	DAY	59	14.2-14.2	14.2	14.2	9.6	WEAK	33-44	31.1-31.3 31.2	31.2 4047 7042 0554 1703
A 5	18-33	15 10	0743	DAY	59	13.8-14.2	14.2	14.2	9.6	WEAK	33-44	31.1-31.4 31.3	31.2 4047 7042 0554 1703
A 6	0-15	15 10	0922	DAY	70	13.7-13.9	13.8	13.9	8.1	WEAK	28-54	31.1-31.3 31.2	31.1 4032 7040 0554 1704
A 6	18-33	15 10	0922	DAY	70	11.8-13.7	13.3	13.9	8.1	WEAK	28-54	31.0-31.5 31.2	31.1 4032 7040 0554 1704
A 7	0-15	15 10	1126	DAY	112	14.2-14.4	14.2	14.4	10.2	WEAK	32-50	31.1-31.5 31.3	31.1 4017 7037 0552 1703
A 7	18-33	15 10	1126	CAY	112	13.4-14.3	14.1	14.4	10.2	WEAK	32-50	31.3-31.4 31.3	31.1 4017 7037 0552 1703
P 1	0-6	14 10	1820	NIGHT	13	14.0-14.2	14.1	14.2	13.8	NONE	-	30.7-30.8 30.8	30.8 4103 7151 1557 1708
P 2	0-15	14 10	1937	NIGHT	35	13.5-15.1	14.2	15.1	12.7	GRADUAL	-	30.9-31.3 31.1	30.9 4058 7149 0557 1709
P 2	18-24	14 10	1937	NIGHT	35	12.7-13.4	13.2	15.1	12.7	GRADUAL	-	31.3-31.3 31.3	30.9 4058 7149 0557 1709
P 3	0-15	14 10	2034	NIGHT	45	15.7-18.1	16.0	15.7	9.8	WEAK	25-39	31.3-31.5 31.4	31.4 4054 7147 0557 1709
P 3	18-33	14 10	2034	NIGHT	45	12.9-15.9	14.8	15.7	9.8	WEAK	25-39	31.4-31.6 31.5	31.4 4054 7147 0557 1709
P 4	0-15	14 10	1306	DAY	60	15.4-15.6	15.4	15.6	8.0	STRONG	29-42	30.7-31.0 30.9	30.7 4044 7144 0557 1709
P 4	18-33	14 10	1306	DAY	60	13.8-15.5	15.3	15.6	8.0	STRONG	29-42	31.0-31.6 31.3	30.7 4044 7144 0557 1709
P 5	0-15	14 10	1128	DAY	71	14.9-15.2	15.0	15.2	7.4	STRONG	26-42	30.7-31.0 30.8	30.7 4034 7140 0557 1709
P 5	18-33	14 10	1128	DAY	71	12.9-14.9	14.5	15.2	7.4	STRONG	26-42	31.0-31.5 31.2	30.7 4034 7140 0557 1709
P 6	0-15	14 10	0750	DAY	81	15.1-15.2	15.1	15.2	9.1	STRONG	33-46	31.5-31.7 31.6	31.5 4020 7135 0555 1708
P 6	18-33	14 10	0750	DAY	81	14.6-15.2	15.1	15.2	9.1	STRONG	33-46	31.4-32.0 31.7	31.5 4020 7135 0555 1708
P 7	0-15	14 10	0610	DAY	90	14.7-14.9	14.8	14.7	11.1	WEAK	25-47	31.6-31.8 31.7	31.6 4005 7129 0555 1709
P 7	18-33	14 10	0610	DAY	90	11.7-15.0	14.2	14.7	11.1	WEAK	25-47	31.7-31.9 31.8	31.6 4005 7129 0555 1709
C 1	0-15	13 10	0821	DAY	19	14.4-15.4	15.0	15.4	14.4	NONE	-	30.6-30.9 30.9	30.8 4035 7317 0602 1716
C 2	0-15	13 10	0912	DAY	25	15.7-15.9	15.8	15.9	11.9	STRONG	19-23	30.9-31.0 31.0	30.8 4031 7314 0602 1716
C 3	0-15	13 10	1007	DAY	31	16.2-16.4	16.3	16.3	10.5	STRONG	24-20	31.0-31.2 31.1	31.1 4027 7310 0601 1717
C 3	18-24	13 10	1007	DAY	31	16.1-16.2	16.2	16.3	10.5	STRONG	24-20	31.0-31.3 31.2	31.1 4027 7310 0601 1717
C 4	0-15	13 10	1133	DAY	38	15.7-16.0	15.8	16.0	9.1	STRONG	25-32	30.9-31.0 30.9	30.9 4019 7303 0601 1720
C 4	18-33	13 10	1133	DAY	38	9.7-15.6	13.6	16.0	9.1	STRONG	25-32	31.0-31.6 31.4	30.9 4019 7303 0601 1720
C 5	0-15	13 10	1455	DAY	41	15.3-15.9	15.6	15.9	7.6	STRONG	31-35	31.2-31.4 31.3	31.2 4010 7255 0600 1716
C 5	18-33	13 10	1455	CAY	41	10.6-15.3	14.6	15.9	7.6	STRONG	31-35	31.2-31.5 31.4	31.2 4010 7255 0600 1716
C 6	0-15	13 10	1714	DUSS	55	15.6-15.9	15.8	15.9	8.8	STRONG	25-35	31.4-31.6 31.5	31.6 3958 7244 0559 1715
C 6	18-33	13 10	1714	DUSS	55	10.7-15.7	14.6	15.9	8.8	STRONG	25-35	31.6-31.6 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	8.7	WEAK	28-43	31.9-32.0 31.9	32.0 3946 7233 0558 1714
C 7	18-33	13 10	2047	NIGHT	73	13.2-15.6	15.1	15.9	8.7	WEAK	28-43	31.5-32.1 31.9	32.0 3946 7233 0558 1714
C 8	0-15	13 10	2259	NIGHT	492	15.7-15.7	15.7	15.7	11.1	STRONG	34-44	32.2-32.3 32.2	32.2 3934 7222 0558 1714
C 8	18-33	14 10	2259	NIGHT	452	15.3-15.7	15.6	15.7	11.1	STRONG	34-44	32.1-32.3 32.2	32.2 3934 7222 0558 1713
D 1	0-6	6 10	0124	NIGHT	18	17.2-17.3	17.3	17.2	17.5	NONE	-	30.4-30.5 30.5	30.5 3951 7404 0551 1735
D 2	0-6	6 10	0213	NIGHT	23	17.0-17.1	17.0	17.1	17.0	NONE	-	30.5-30.7 30.6	30.6 3948 7359 0557 1731
D 3	0-15	5 10	0308	NIGHT	24	16.8-17.0	16.9	17.0	16.8	NONE	-	30.6-30.5 30.8	30.8 3945 7354 0556 1733
D 4	0-15	12 10	2326	NIGHT	27	16.3-16.4	16.4	16.4	15.4	NONE	-	30.8-31.2 31.0	31.1 3939 7342 0602 1721
D 4	18-24	12 10	2326	NIGHT	27	15.4-16.2	15.9	16.4	15.4	NONE	-	31.0-31.3 31.2	31.1 3939 7343 0602 1721
D 5	0-15	12 10	2204	NIGHT	36	16.5-16.6	16.6	16.6	11.0	WEAK	23-37	31.2-31.2 31.2	31.3 3932 7333 0601 1720
D 5	18-24	12 10	2204	NIGHT	36	15.5-16.4	16.1	16.6	11.0	WEAK	23-37	31.2-31.4 31.3	31.3 3932 7333 0601 1720
D 6	0-15	12 10	1801	NIGHT	54	16.4-16.4	16.4	16.4	7.4	STRONG	19-24	31.5-31.8 31.7	31.7 3923 7319 0559 1719
D 6	18-33	12 10	1801	NIGHT	54	8.3-15.5	10.8	16.4	7.4	STRONG	19-24	31.1-31.7 31.3	31.7 3923 7319 0559 1719
D 7	0-15	12 10	1602	DAY	72	16.6-16.7	16.6	16.6	7.9	STRONG	20-35	31.5-31.9 31.7	31.5 3914 7303 0602 1722
D 7	18-33	12 10	1602	DAY	72	8.5-16.7	14.0	16.6	7.9	STRONG	20-35	31.7-31.9 31.9	31.5 3914 7303 0602 1722
D 8	0-15	12 10	1213	DAY	110	16.2-16.2	16.2	16.2	11.1	WEAK	35-56	31.6-31.8 31.7	31.7 3906 7250 0557 1717
D 8	18-33	12 10	1213	DAY	110	16.0-16.1	16.0	16.2	11.1	WEAK	35-56	31.9-32.3 32.0	31.7 3906 7250 0557 1717
E 1	0-6	5 10	1501	DAY	16	17.7-17.9	17.8	17.7	17.9	NONE	-	30.3-30.6 30.4	30.2 3917 7431 0558 1735
E 2	0-6	5 10	1415	DAY	17	17.7-17.7	17.7	17.7	17.6	NONE	-	30.6-30.6 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	16.9	NONE	-	30.8-30.9 30.8	30.8 3911 7420 0557 1734
E 4	0-15	11 10	2024	NIGHT	29	16.4-17.2	17.0	17.2	13.0	STRONG	21-28	30.8-31.3 31.0	30.9 3905 7405 0602 1725
E 5	0-15	11 10	2210	NIGHT	35	16.4-16.6	16.5	16.6	9.0	STRONG	22-31	31.2-31.4 31.3	31.2 3859 7359 0601 1724
E 5	18-24	11 10	2210	NIGHT	35	15.3-16.4	16.0	16.6	9.0	STRONG	22-31	31.4-31.4 31.4	31.2 3859 7359 0601 1724
E 6	0-15	12 10	0150	NIGHT	43	15.8-16.2	16.1	16.2	7.9	STRONG	19-24	31.2-31.5 31.4	31.5 3854 7349 0601 1722
E 6	18-33	12 10	0150	NIGHT	43	7.9-15.4	10.4	16.2	7.9	STRONG	19-24	31.5-31.9 31.4	31.5 3854 7349 0601 1722
F 7	0-15	12 10	0352	NIGHT	65	17.1-17.2	17.1	17.2	6.2	STRONG	26-39	32.1-32.3 32.2	32.3 3845 7333 0600 1721
F 7	18-33	12 10	0352	NIGHT	65	11.0-17.1	15.7	17.2	6.2	STRONG	26-39	31.7-32.3 32.1	32.3 3845 7333 0600 1721
E 8	0-15	12 10	0813	DAY	39	16.6-16.7	16.7	16.6	10.9	-	-	32.3-32.5 32.4	32.5 3836 7318 0559 1720
E 8	18-33	12 10	0803	DAY	39	14.6-16.7	16.3	16.6	10.9	-	-	32.3-32.8 32.5	32.5 3836 7318 0559 1720
F 1	0-6	5 10											

TABLE 2. (continued)

CRUISE NO. 12	TOW DEPTH (M)	DATE 1966 O P	TIME START -EST	LIGHT COND.	WATER DEPTH (M)	**** RANGE	TEMPERATURE (C) MEAN SURF.	**** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY 10/00 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** 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	31.8-22.3	22.1	21.4	3742 7422	0556 1737	
H 1	0-6	3 10	1656	DAY	11	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	NONE	-	31.0-21.1	31.0	31.0	3732 7528	0559 1743	
H 3	0-15	3 10	1853	NIGHT	25	19.5-19.6	19.5	19.7	NONE	-	31.0-31.2	31.1	31.1	3730 7522	0558 1742	
H 4	0-15	3 10	1914	DAY	28	19.3-19.4	19.3	19.3	NONE	-	30.6-30.9	30.7	30.9	3727 7510	0558 1742	
H 5	0-15	3 10	1950	DAY	35	19.6-19.7	19.7	19.7	GRADUAL	-	30.8-30.9	30.9	30.8	3723 7458	0557 1741	
H 5	18-33	3 10	1950	DAY	39	16.1-18.6	17.2	19.7	GRADUAL	-	30.9-21.1	21.0	30.8	3723 7458	0557 1741	
H 6	0-15	3 10	0611	DAY	77	19.3-19.3	19.3	19.3	STRONG 26-44	31.9-22.7	32.1	22.7	3718 7440	0556 1740		
H 6	18-33	3 10	0611	DAY	77	13.1-19.4	19.1	19.3	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	STRONG 16-28	32.1-32.4	32.2	22.3	3716 7434	0555 1739		
H 7	18-33	3 10	0519	NIGHT	116	8.5-18.0	12.5	19.3	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	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	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	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	3653 7532	0558 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	21.5	31.5	3652 7521	0557 1744	
J 6	0-15	2 10	1725	NIGHT	35	19.1-19.5	19.4	19.5	10.1	WEAK 16-28	31.8-21.9	21.8	31.9	3650 7502	0556 1743	
J 6	18-24	2 10	1725	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	12.7-20.1	19.0	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	0720	DAY	17	19.7-21.4	20.8	21.4	19.7	NONE	-	30.4-30.9	30.6	3623 7548	0556 1747	
K 2	0-15	1 10	0825	DAY	22	21.4-22.0	21.9	22.0	18.9	WEAK 15-21	30.6-30.7	30.2	29.9	3623 7542	0558 1746	
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 7522	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	30.6-31.0	30.9	30.7	3622 7511	0556 1745	
K 6	0-15	30 9	2016	NIGHT	45	20.8-24.4	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	31.5-23.9	22.3	31.3	3621 7458	0554 1746	
K 7	0-15	30 9	1850	NIGHT	823	21.6-24.6	22.0	21.6	10.9	STRONG 23-47	31.5-24.4	33.3	21.5	3621 7446	0553 1745	
K 7	18-33	30 9	1850	NIGHT	823	19.3-25.0	21.7	21.6	10.9	STRONG 23-47	32.1-34.8	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	21.7	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	29.6	3546 7517	0555 1747
L 3	18-24	30 9	0157	NIGHT	34	20.3-21.6	21.1	22.5	16.1	-	-	31.8-32.8	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	21.6	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	1221	DAY	376	23.2-24.3	23.9	23.2	12.9	-	-	32.1-33.6	32.2	32.0	3545 7452	0553 1745
L 5	18-33	30 9	1221	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	23.6-23.8	23.8	23.8	23.8	NONE	-	31.6-31.0	31.0	3518 7525	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	31.6-33.4	31.5	31.0	3514 7518	0553 1750	
M 4	0-15	28 9	2324	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	23.5	13.9	WEAK 2-8	31.6-35.3	32.7	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	35.1-25.4	35.3	31.6	3510 7507	0552 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	1608	DAY	45	25.4-25.5	25.4	25.5	20.3	WEAK 32-41	34.6-34.9	34.9	34.9	3442 7548	0556 1751	
N 4	18-33	29 9	1608	DAY	45	24.6-25.4	25.3	25.5	20.3	WEAK 32-41	34.6-34.9	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	0556 1751
N 5	18-33	29 9	1716	DAY	172	24.6-26.2	25.4	26.6	20.1	GRADUAL	-	35.0-35.2	35.1	35.1	3433 7544	0556 1751
P 1	0-6	20 10	0724	DAY	16	21.5-21.9	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 7637	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 7636	0615 1726
P 4	0-15	20 10	1123	DAY	31	21.6-23.0	23.0	23.0	22.8	NONE	-	34.8-34.9	34.8	34.8	3417 7622	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 7623	0615 1726
P 5	0-15	20 10	1338	DAY	92	25.4-25.4	25.4	25.4	20.8	GRADUAL	-	34.5-25.1	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)

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COAST STA.	TOW DEPTH (M)	DATE 1966 D M	TOW SIGHT H M	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** BOT.	THERMOCLINE DEGREE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET		
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	0636 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 7526	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	25	14.5-15.6	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	0636 1652
H 5	18-33	12 11	0754	DAY	42	14.0-14.3	14.2	15.3	14.0	GRADUAL	-	32.8-33.9	33.9	33.3	3723 7458	0636 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	2327	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	0336	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	0-15	14 11	1348	DAY	22	14.5-15.0	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	1227	NIGHT	26	14.6-14.7	14.6	14.6	14.4	NONE	-	33.7-33.9	33.8	33.8	3652 7521	0638 1653
J 6	0-15	14 11	1035	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	18-33	14 11	1035	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	0636 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	13 11	0842	DAY	15	14.5-14.8	14.5	14.5	14.6	NONE	-	33.2-33.3	33.2	33.1	3623 7548	0642 1653
K 2	0-15	13 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	13 11	1022	DAY	24	14.7-14.7	14.7	14.7	14.9	NONE	-	33.6-34.0	33.8	33.7	3622 7536	0642 1652
K 4	0-15	13 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	13 11	0325	NIGHT	33	14.4-14.6	14.5	14.7	14.5	NONE	-	34.1-34.1	34.1	34.1	3622 7522	0642 1652
K 5	0-15	13 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	13 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	13.5-14.2	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	-	-	34.7-34.8	34.8	34.7	3621 7446	0638 1649
K 7	18-33	17 11	2127	NIGHT	397	13.8-13.7	13.7	14.1	11.6	-	-	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	0707	DAY	32	14.9-15.1	15.0	15.1	15.0	NONE	-	33.8-33.8	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	14.8-14.8	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	-	34.4-35.8	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 7523	0638 1656
M 3	0-15	17 11	0020	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	18.8-18.8	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	-	35.8-35.8	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 1659
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	-	36.8-37.0	36.9	37.0	3442 7548	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	0635 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	0635 1702
P 4	0-15	15 11	1617	DAY	32	20.8-21.4	21.1	20.8	21.4	NONE	-	36.2-36.3	36.2	36.2	3417 7623	0635 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 7523	0635 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 7513	0637 1702

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

CRUISE DATE D65 4 1965 STA. D 4	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10 ³ EGGS
		NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	
C 1	C3 12	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	
		SAMPLING DEPTH	0-6M									
	MERLUCCIIUS BILINEARIS	1				0						0.1
	PARALICHTHYS DENTATUS	1	1	5.2	SL	0						0.1
	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
	ENCHEL YORUS CIMBRIUS	1	1	5.0	SL	0						0.3
	UPOPHYCIS SP.	1	1	4.3	NL							0.3
	PARALICHTHYS DENTATUS	2	2	7.7	6.4-9.1 SL	0						0.6
	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				
	CLUPEA HARENGUS HARENGUS						1	1	17.9	TL		0.3
	ENCHEL YORUS CIMBRIUS	2	2	8.0	6.3-9.6 SL	0						0.7
	GADUS MORHUA					147					57	63.1
	MERLUCCIIUS BILINEARIS					0	1	1	6.0	NL	0	0.3
	PARALICHTHYS DENTATUS	2	2	10.8	10.1-11.5 SL	0	2	2	8.6	8.2-9.1 SL	0	1.3
	SCOPHTHALMUS AQUOSUS	2	2	6.5	6.4-6.6 SL		27	18	6.9	3.6-32.1 SL		9.6
C 4	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-33M				
	ENCHEL YORUS CIMBRIUS	1	1	3.7	SL	0						0.3
	GADUS MORHUA	10	8	5.3	3.5-6.5 SL	16	2	2	4.5	4.3-4.6 SL	38	3.7
	UPOPHYCIS SP.						9	9	6.2	2.8-11.1 NL		3.0
	MERLUCCIIUS BILINEARIS	2	2	4.6	4.2-5.0 NL	0	17	17	8.5	3.2-53.0 NL	0	6.3
	ETROPUS MICROSTOMUS						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	5.5
	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	1E-33M				
	UPOPHYCIS SP.	1	1	2.2	NL		4	4	4.6	3.9-5.1 NL		1.6
	MERLUCCIIUS BILINEARIS	13	11	6.1	4.3-7.8 NL	0	20	15	6.3	3.7-38.5 NL	0	10.6
	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	1E-33M				
	UPOPHYCIS SP.	4	4	5.6	4.5-7.2 NL							1.3
	MERLUCCIIUS BILINEARIS	6	6	8.3	7.0-8.9 NL	0	27	27	7.4	4.4-5.6 NL	0	10.8
	PARALICHTHYS DENTATUS	2	2	7.7	7.3-8.2 SL	0	2	2	8.6	7.9-9.3 SL	0	1.3
	SCOPHTHALMUS AQUOSUS						1	1	4.3	SL		0.3
C 7	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-33M				
	UPOPHYCIS SP.	5	4	6.6	5.7-7.2 NL		2	2	5.9	5.5-6.3 NL		2.2
	MERLUCCIIUS 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	1E-33M				
	UPOPHYCIS SP.	1	1	6.9	NL							0.3
C 1	C5 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
	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
	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
	UPOPHYCIS SP.	4	3	6.3	3.9-10.9 NL							1.2
	MERLUCCIIUS BILINEARIS	1	1	4.2	NL	0						0.3
	PARALICHTHYS DENTATUS	14	14	6.0	3.8-11.2 SL	0						4.2
	SCOPHTHALMUS AQUOSUS	171	50	4.2	3.1-5.3 SL							51.8

TABLE 3. (continued)

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CRUISE DATE D65 4 1965 STA. D 4 SPECIES ANALYZED C 4 C5 12	***** LARVAE *****					***** LARVAE *****					NO. PER 10M ²	
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	LARVAE	EGGS
BREXIDOTIA TYFANNUS	1	1	27.7	TL		1	1	16.9	TL		0.2	
CLUFFEA HARENGUS HARENGUS	1	1	37.3	TL							0.3	
ENGRAULIS EURYSTOIE	3	3	5.5	4.9- 6.5 SL	0	13	13	4.4 3.2- 5.3 SL	50		3.0	8.1
GADUS MORHUA	7	5	4.7	3.2- 7.3 NL	0	6	5	3.7 3.1- 4.4 NL	0		3.1	
UROPHYCIS SP.	1				0						0.3	0.0
MERLUCCIVS BILINEARIS						1	1	5.8	SL		0.2	
CITHARICHTHYS ARCTIFRONS					0	19	19	5.7 3.4- 8.9 SL	0		14.4	0.0
PARALICHTHYS DENTATUS	37	36	6.6	4.5- 9.6 SL		203	50	4.5 3.0- 7.8 SL			51.5	
SCOPHTHALMUS AQUOSUS	191	50	4.8	3.0- 6.1 SL								
.....												
D 5 C5 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
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- 8.0 NL			4.8	
MERLUCCIVS 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	5.5 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			1.9	
MERLUCCIVS 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							0.7	
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							0.3	
MERLUCCIVS BILINEARIS	3	3	24.5	10.6-23.2 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 EURYSTOIE	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	
MERLUCCIVS BILINEARIS	2	2	11.1	9.2-13.1 NL	0	1	1	14.5	NL	0	0.9	0.0
BCTHUS OCELLATUS						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	
.....												
F 1 C7 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
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					SAMPLING DEPTH 18-33M						
CLUFFEA 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	
.....												
F 3 C7 12	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
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					SAMPLING DEPTH 18-33M						
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	
MERLUCCIVS BILINEARIS	2	2	6.2	5.3- 7.1 NL	0						0.6	0.0
PARALICHTHYS DENTATUS	38	28	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 UNIDENTIFIED	
.....												
F 5 C6 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
UROPHYCIS SP.	1	1	4.4	NL							0.3	
MERLUCCIVS 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											UNIDENTIFIED	

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****							
STA.	TIME	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO.	PER	10M		
		TOTAL	MEAS.	MEAN	RANGE	EGGS	TOTAL	MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS	
SPECIES ANALYZED														
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		0.2	
MERLUCCIIUS BILINEARIS		3	3	3.4	2.7-4.2	NL	3	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	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	
.....														
F 7 06 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M							
UROPHYCIS AMERICANUS		1	1	6.8		TL							0.3	
UROPHYCIS SP.		2	2	6.3	4.2-8.5	NL	1	1	6.4		NL		0.9	
MERLUCCIIUS BILINEARIS		2	2	9.4	8.5-10.4	NL	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							2	2	5.4	8.7-10.1	SL	0	0.7	0.0
.....														
F 8 06 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
GERATOSCOPELUS MAHERENSIS		1	1	14.1		SL							0.3	
GADUS MORHUA		2										0	0.7	0.0
PARALICHTHYS DENTATUS							2	1	8.4		SL	0	0.7	0.0
SCOPHTHALMUS AQUOSUS		1											0.3	
ADDITIONAL LARVAE CAUGHT		COBILIDAE												
.....														
F 1 09 12		SAMPLING DEPTH 0-9M												
BREVOORTIA TYPANNUS		2	2	30.0	29.4-30.6	TL							0.4	
ANCHOA MITCHELLI		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 TYPANNUS		1	1	28.3		TL							0.2	
ANCHOA MITCHELLI		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	0.0
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 TYPANNUS		1	1	21.0		TL							0.3	
GADUS MORHUA		11	11	3.8	3.0-4.5	SL	141							

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[illegible]

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
065 4 1965	NUMBER	LENGTHS (MM)	NO.
STA. NO.	TOTAL MEAS.	MEAN	PER 10M
SPECIES ANALYZED	RANGE	MEAS.	EGGS
J 2 12 12	SAMPLING DEPTH 0- 3M		
BREVOORTIA TYRANNUS	1 1 17.4	TL	0.1
PARALICHTHYS DENTATUS	1 1 8.6	SL	0.1
SCOPHTHALMUS AQUOSUS	1 1 4.0	SL	0.1
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE		
	GOBIOIDAE		
J 3 12 12	SAMPLING DEPTH 0- 6M		
BREVOORTIA TYRANNUS	5 5 16.5 13.7-18.5	TL	0.6
SCOPHTHALMUS AQUOSUS	1 1 2.6	SL	0.1
J 4 12 12	SAMPLING DEPTH 0- 6M		
BREVOORTIA TYRANNUS	1 1 10.1	TL	0.1
UPCHYCHIS SP.	5 5 6.5 4.5- 7.9	NL	0.6
PARALICHTHYS DENTATUS	12 12 5.4 4.1- 7.3	SL	1.5
SCOPHTHALMUS AQUOSUS	3 3 4.3 3.4- 5.2	SL	0.4
J 5 12 12	SAMPLING DEPTH 0-15M		
BREVOORTIA TYRANNUS	2 2 15.7 15.6-15.8	TL	0.6
MERLUCCIIUS BILINEARIS	1 1 6.8	NL	0.3
PARALICHTHYS DENTATUS	1 1 5.6	SL	0.3
J 6 12 12	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
UPCHYCHIS SP.		2 2 12.3 4.7-20.0	NL
MERLUCCIIUS BILINEARIS		2 2 7.3 5.8- 8.9	NL
J 7 11 12	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
K 1 12 12	SAMPLING DEPTH 0- 3M		
SCOPHTHALMUS AQUOSUS	3 3 3.0 2.7- 3.5	SL	0.2
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE		
K 2 12 12	SAMPLING DEPTH 0- 6M		
K 3 13 12	SAMPLING DEPTH 0-15M		
BREVOORTIA TYRANNUS	1 1 15.1	TL	0.3
MICROPYGON UNULATUS	1 1 4.9	SL	0.3
PARALICHTHYS DENTATUS	27 27 4.5 3.4- 8.5	SL	8.2
SCOPHTHALMUS AQUOSUS	8 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 7 15.3 13.7-19.5	TL	2.7
UPCHYCHIS SP.	20 11 10.6 6.7-20.6	NL	6.9
ETREPOS MICROSTOMUS	1 1 10.9	SL	0.6
PARALICHTHYS DENTATUS	11 11 6.5 4.8- 7.6	SL	4.0
SCOPHTHALMUS AQUOSUS		1 1 10.1	SL
K 5 13 12	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
BREVOORTIA TYRANNUS	3 3 14.1 13.4-15.1	TL	1.0
FRAGAULIS EURYSTOLE		6 4 36.1 32.5-39.0	TL
SYMPLOPHCRUS VERANYI	1 1 9.8	SL	1.0
UPCHYCHIS SP.	4 4 10.2 7.0-13.8	NL	0.3
MICROPYGON UNULATUS	1 1 5.5	SL	2.4
PARALICHTHYS DENTATUS	1 1 6.3	SL	0.5
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED		2.3
K 6 13 12	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
LECHYCHIS AMERICANUS		1 1 3.0	TL
UPCHYCHIS SP.	6 6 7.3 6.1- 9.9	NL	0.3
MERLUCCIIUS BILINEARIS	2 2 7.4 6.0- 8.9	NL	2.0
PARALICHTHYS DENTATUS	6 6 7.3 6.5- 8.9	SL	1.3
K 7 13 12	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
PARALICHTHYS DENTATUS		1 1 5.6	SL
L 1 13 12	SAMPLING DEPTH 0- 6M		
EICIS SAURUS	1 1 32.8	NL	0.1
BREVOORTIA TYRANNUS	1 1 15.2	TL	0.1
LEIOSTOMUS XANTHURUS	1 1 11.9	SL	0.1
MICROPYGON UNULATUS	1 1 5.8	SL	0.1
PARALICHTHYS DENTATUS	1 1 13.1	SL	0.1
SCOPHTHALMUS AQUOSUS	6 6 3.5 2.5- 4.8	SL	0.1
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED		0.7

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
NO. 4 1965		NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)		NO. PER 10M	
STA. 04 SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE		TOTAL MEAS.		MEAN RANGE		EGGS	
L 2 13 12		SAMPLING DEPTH 0-6M									
UROPHYCIS SP.		1	1	3.3	NL					0.1	
LEICESTOMUS XANTHURUS		3	3	11.5 11.5-11.6	SL					0.4	
PARALICHTHYS DENTATUS		44	44	4.7 3.0-12.5	SL					5.3	0.0
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	32.2	NL		0.2
BREVOORTIA TYRANNUS		1	1	18.3	TL	7	7	12.5 9.1-15.9	TL		1.5
ENGRAULIS EURYSTOE						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
LEICESTOMUS 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
CITHARICHTHYS ARCTIFRONS		1	1	9.5	SL						0.3
PARALICHTHYS DENTATUS		4	4	8.2 4.8- 9.6	SL						7.0
SCOPHTHALMUS AQUOSUS		1	1	3.1	SL	36	36	6.7 4.4-12.1	SL	0	0.0
ADDITIONAL LARVAE CAUGHT		GOBIIIDAE				SYNOODONTIDAE					
						GOBIIIDAE					
						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
MERLUCCIIUS BILINEARIS						1	1	4.1	NL	0	0.3
LEICESTOMUS 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		SYNOODONTIDAE				PARALEPIDIDAE					
						GOBIIIDAE					
L 5 14 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
LEICESTOMUS XANTHURUS		1	1	3.9	SL						0.3
PARALICHTHYS DENTATUS										0	0.0
ADDITIONAL LARVAE CAUGHT						SYNOODONTIDAE					
M 1 14 12		SAMPLING DEPTH 0-3M									
BREVOORTIA TYRANNUS		18	18	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						0.3
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	26	14.2 10.1-18.4	TL						14.4
LEICESTOMUS 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						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 EURYSTOE		4									1.2
UROPHYCIS SP.		21	11	7.8 2.9-11.0	NL						6.4
LEICESTOMUS 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						20.9
SCOPHTHALMUS AQUOSUS		10	10	3.6 3.1- 4.5	SL						3.0
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE									
		UNIDENTIFIED									
M 4 14 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS		5	5	12.8 9.5-14.2	TL	1	1	11.9	TL		1.7
ENGRAULIS EURYSTOE		1	1	12.1	TL	1	1	12.3	TL		0.5
UROPHYCIS SP.		9	5	5.3 3.2- 5.7	NL						2.9
LEICESTOMUS 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
BETHUS CELLATUS		1									0.3
ETROPUS MICROSTOMUS						1	1	4.7	SL		0.2
PARALICHTHYS DENTATUS		4	4	6.6 4.6-10.8	SL	31	31	6.5 3.6-10.9	SL	0	6.2
SCOPHTHALMUS AQUOSUS						1	1	4.5	SL		0.2
ADDITIONAL LARVAE CAUGHT		BREGMACEROTIDAE				SYNOODONTIDAE					
		SPARIDAE				OPHIOTIDAE					
						CARAPIDAE					
						SPARIDAE					
						UNIDENTIFIED					

TABLE 3. (continued)

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CRUISE DATE		***** LAPVAE *****					***** LARVAE *****					2	
065 4 1965		NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.			
STA. 7 M	SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 10M	
# 5	14 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M				EGGS	
	OPHICHTHUS GOMESI						2	26.0	20.5-31.5	TL		0.7	
	OPHICHTHUS OCELLATUS						2	21.5	18.5-24.5	TL		0.7	
	PREODONTIA TYRANNUS	57	32	7.5	3.5-10.3	TL	4	5.7	7.8-11.5	TL		19.0	
	ETRMEUS SAOIMA	7	7	11.1	8.1-13.8	TL	4	11.5	10.6-14.0	TL		3.4	
	ENGFAJLIS EURYSTOE	5	5	4.3	3.7-5.4	TL	1	7.7		TL		1.8	
	RENTHOSEMA SUBARBITALF						2	5.3	4.7-5.9	SL		0.7	
	CERATOSCOPELLS MAHERENSIS	1	1	8.8		SL						0.3	
	CERATOSCOPELLS WAMMINCI	3	3	4.7	4.4-5.2	SL						1.0	
	DIAPHUS SP.						3	3	6.4	7.2-10.3	SL	1.0	
	LAMEFANYCTUS ALATUS OR PHOTONOTUS	7	7	4.6	3.5-6.6	SL						2.3	
	LAMEFANYCTUS ATER						1	1	5.4		SL	0.3	
	MYCTOPHUM SP.	1	1	7.3		SL						0.3	
	MYCTOPHUM AFFINE	1	1	4.6		SL						0.3	
	ENCHELYOPLS CIMBRIUS	3	3	2.2	1.8-2.5	SL						1.0	
	UFOPHYCIS SP.	93	23	3.1	1.7-7.7	NL	9	9	3.8	2.7-4.9	NL	21.0	
	UFOPHYCIS FLOPIDANUS	3	2	3.5	3.0-4.1	NL						1.0	
	HEMANTHIA S. VIVANUS	2	2	4.5	4.0-5.0	SL						0.7	
	LEICSTOMUS XANTHURUS	431	78	4.1	2.4-7.5	SL	83	82	4.4	2.8-6.6	SL	157.0	
	MICROPOGON UNULATUS	72	70	3.7	2.4-5.7	SL	27	27	4.0	2.9-6.1	SL	30.6	
	PEPRILUS TRIACANTHUS	1	1	3.4		SL	3	3	4.0	3.4-4.7	SL	1.3	
	PRINCOTUS CAPELINUS	6	6	5.2	4.0-6.0	SL	3	3	6.6	6.3-6.9	SL	2.8	
	ROTHUS OCELLATUS	62	25	4.6	2.7-7.9	SL	7	7	7.9	4.6-17.3	SL	20.9	
	ETREPIUS MICROSTOMUS	58	58	4.0	2.1-5.7	SL	25	25	3.7	2.1-6.6	SL	25.7	
	PARALICHTHYS DENTATUS	2	2	3.1	3.0-3.2	SL	5	5	4.2	3.4-5.7	SL	2.3	
	SYACIUM PAPILLOSUM	2	2	6.8	6.6-7.0	SL						0.7	
	SYMPHURUS SP.	10	10	6.3	3.9-9.6	SL	6	6	5.0	4.7-13.2	SL	5.0	
ADDITONAL LARVAE CAUGHT		OPHICHTHIDAE					OPHICHTHIDAE						
		STOMIATIDAE					VINCIGUERRIA SP.						
		SYNODONTIDAE					STOMIATIDAE						
		PARALEPIDIDAE					SYNODONTIDAE						
		MYCTOPHIDAE					CHLOROPHTHALMIDAE						
		BREGMACEROTIDAE					PARALEPIDIDAE						
		OPHIIDAE					MYCTOPHIDAE						
		CARAPIDAE					BREGMACEROTIDAE						
		FISTULARIIDAE					OPHIIDAE						
		SERRANIIDAE					CARAPIDAE						
		CARANGIIDAE					SERRANIIDAE						
		SPARIDAE					SPARIDAE						
		LABRIDAE OR SCARIDAE					CHAETODONTIDAE						
		CALLIONYMIDAE					LABRIDAE OR SCARIDAE						
		GOBIIDAE					MUGILIDAE						
		ACANTHURIDAE					CALLIONYMIDAE						
		STROMATEIDAE					GOBIIDAE						
		SCORPAENIDAE					GEMPYLIDAE						
		UNIDENTIFIED					SCORPAENIDAE						
							TRIGLIDAE						
							UNIDENTIFIED						
.....													
N 1	15 12	SAMPLING DEPTH 0-6M											
	PREODONTIA TYRANNUS	5	5	15.3	12.5-19.0	TL						0.6	
	LAMEFANYCTUS ALATUS OR PHOTONOTUS	1	1	4.2		SL						0.1	
	LAMEFANYCTUS ATER	1	1	3.8		SL						0.1	
	UFOPHYCIS SP.	4	3	2.8	2.4-3.2	NL						0.5	
	HEMANTHIA S. VIVANUS	1	1	3.6		SL						0.1	
	LEICSTOMUS XANTHURUS	47	45	4.8	2.8-7.8	SL						5.7	
	MICROPOGON UNULATUS	15	15	4.0	2.8-5.8	SL						1.8	
	PEPRILUS TRIACANTHUS	3	3	3.8	3.5-4.5	SL						0.4	
	PRINCOTUS CAPELINUS	2	2	6.8	5.5-8.2	SL						0.2	
	ROTHUS OCELLATUS	1	1	3.7		SL						0.1	
	ETREPIUS MICROSTOMUS	5	5	4.3	2.4-5.9	SL						0.6	
	PARALICHTHYS DENTATUS	5	5	3.4	3.1-3.7	SL	8					0.6	
	SCOPHTHALMUS AQUINUS	5	5	3.3	2.8-3.9	SL						0.6	
	SYMPHURUS SP.	2	2	4.2	3.6-4.8	SL						0.2	
ADDITONAL LARVAE CAUGHT		BREGMACEROTIDAE											
		OPHIIDAE											
		CARAPIDAE											
		SERRANIIDAE											
		ACANTHURIDAE											
		SPARIDAE											
		CALLIONYMIDAE											
		GOBIIDAE											
		UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	0 M	NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO. PER 10M	
N 4	IS 12	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS
		SAMPLING DEPTH	0-15M				SAMPLING DEPTH		18-33M				
AHLIA EMENTIS		1	1	71.0		TL						0.3	
OPHICHTHUS MELANOPHORUS		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	
BREVIORTIA TYRANNUS		36	32	7.5	4.1-12.7	TL	21	21	9.1	5.0-11.7	TL	17.8	
ETRUMEUS SADINA		5	5	7.3	6.0-10.0	TL	2	2	10.2	9.5-10.9	TL	2.2	
ENGRAULIS EURYSTOKE		1	1	4.6		TL	4	4	20.4	18.6-22.1	TL	1.6	
CERATOSCOPELIUS HAMMINGI		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	
HEMANTHIAS VIVANUS		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	11.0	
MICROPOGON UNICULATUS		41	40	3.2	2.5-4.4	SL	133	132	3.8	2.5-8.6	SL	56.6	
PEPRILUS TRIACANTHUS							3	3	3.6	3.2-4.1	SL	1.0	
PERCNOTUS CARLINIUS							24	24	5.5	3.7-8.0	SL	8.0	
ROTHUS OCELLATUS		1	1	11.4		SL	6	6	6.5	3.3-8.9	SL	2.3	
ETREPEUS MICROSTOMUS		12	12	6.0	4.7-7.6	SL	158	25	4.9	2.9-9.4	SL	56.3	
PARALICHTHYS TENTATUS		5	5	4.3	3.8-4.8	SL	4	4	4.8	3.2-7.3	SL	2.8	1.7
SCOPHTHALMUS AQUOSUS							2	1	4.2		SL	0.7	
SYACIUM 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						
		PARALEPTIDAE					BREGMACEROTIDAE						
		LOPHITICINAE					OPHICHTHIDAE						
		BREGMACEROTIDAE					SPARIDAE						
		OPHICHTHIDAE					MUGILIDAE						
		SYNGNATHICAE					CALLIONYMIDAE						
		SERRANIDAE					GOBIIDAE						
		CARANGIDAE					STROMATEIDAE						
		SPARIDAE					UNIDENTIFIED						
		LABRIDAE OR SCARIDAE											
		GOBIIDAE											
		SCORPAENICAE											
		TRIGLICAE											
		UNIDENTIFIED											
.....													
N 5	IS 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BREVIORTIA TYRANNUS		172	49	8.2	3.9-11.2	TL	49	45	5.6	5.3-12.7	TL	17.9	
ETRUMEUS SADINA		1	1	12.0		TL	2	2	13.1	13.0-13.3	TL	1.0	
ENGRAULIS EURYSTOKE		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	105	4.7	2.8-9.5	SL	109	106	4.3	2.7-7.6	SL	58.1	
MICROPOGON UNICULATUS		14	12	3.9	2.5-5.4	SL	50	48	4.2	2.7-6.6	SL	20.9	
PEPRILUS TRIACANTHUS		5	5	3.9	2.9-4.5	SL	1	1	4.5		SL	1.8	
PERCNOTUS CARLINIUS		10	10	3.9	2.7-5.5	SL	1	1	5.7		SL	3.3	
ROTHUS OCELLATUS		5	5	3.5	2.5-5.1	SL	3	3	4.5	3.2-6.2	SL	2.5	
CYCLIPSETTA FIMBRIATA		1	1	6.1		SL						0.3	
ETREPEUS MICROSTOMUS		50	48	5.2	3.1-10.0	SL	117	25	4.7	3.0-9.3	SL	54.0	
PARALICHTHYS TENTATUS		12	12	3.5	2.9-5.2	SL	11	11	4.6	3.2-7.3	SL	7.3	2.1
SCOPHTHALMUS AQUOSUS							1	1	4.5		SL	0.3	
SYACIUM PAPILLOSUM							1	1	8.2		SL	0.3	
SYMPHURUS SP.							1	1	3.5		SL	0.3	
ADDITIONAL LARVAE CAUGHT		OPHICHTHIDAE					VINCIGUERRIA SP.						
		SYNOdontidae					STOMIATIDAE						
		OPHICHTHIDAE					SYNOdontidae						
		SYNGNATHICAE					PARALEPTIDAE						
		SERRANIDAE					BREGMACEROTIDAE						
		SPARIDAE					OPHICHTHIDAE						
		LABRIDAE OR SCARIDAE					SERRANIDAE						
		MUGILIDAE					CARANGIDAE						
		CALLIONYMIDAE					SPARIDAE						
		GOBIIDAE					LABRIDAE OR SCARIDAE						
		ACANTHURICAE					CALLIONYMIDAE						
		STROMATEIDAE					GOBIIDAE						
		SCORPAENICAE					TRICHIURICAE						
		UNIDENTIFIED					STROMATEIDAE						
							SCORPAENIDAE						
							UNIDENTIFIED						
.....													
P 1	IS 12	SAMPLING DEPTH 0-3M											
MICROPOGON UNICULATUS		1	1	8.4		SL						0.1	
PARALICHTHYS TENTATUS												0.0	0.3
SCOPHTHALMUS AQUOSUS		1	1	3.0		SL						0.1	
ADDITIONAL LARVAE CAUGHT		SPARIDAE											
		CALLIONYMIDAE											

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
065 4 1965		NUMBER		LENGTHS (MM)		NO.		NUMBER		LENGTHS (MM)		NO.	
STA.	04	TOTAL MEAS.		MEAN		RANGE		MEAS.		EGGS		NO. PER 10M	
P 2	15 12	SAMPLING DEPTH		C-6M								EGGS	
ANCHOA PEPSETUS		1	1	47.6								0.1	
LEICSTOMUS XANTHURUS		1	1	7.3								0.1	
MICROPOGON UNDULATUS		4	4	9.3	8.7-10.0							0.5	
BETHUS OCELLATUS		1	1	13.6								0.1	
SCOPHTHALMUS AQUOSUS		2	1	2.8								0.2	
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA SPARIDAE UNIDENTIFIED											
.....													
P 3	15 12	SAMPLING DEPTH		C-15M									
ELCS SAURUS		2	2	28.9	28.8-29.1		NL					0.6	
OPHICHTHUS MELANOPOFUS		1	1	30.2			NL					0.3	
ENGRAULIS EURYSTOLE		2	1	29.1			TL					0.6	
LAMPANCTUS ALATUS CR PHOTONCTUS		1										0.3	
MYCTOPHUM AFFINE		1	1	4.4			SL					0.3	
UROPHYCIS SP.		2	2	5.6	5.3- 5.9		NL					0.6	
HEMANTHIAE 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 UNDULATUS		2	2	5.3	5.1- 5.6		SL					0.6	
PRIONOTUS CARLINIUS		2	2	5.3	4.9- 5.8		SL					0.6	
BETHUS OCELLATUS		3	3	9.2	4.7-17.3		SL					0.9	
ETREPOS MICROSTOMUS		6	6	6.0	4.0- 9.0		SL					1.8	
PARALICHTHYS CENTATUS		1	1	5.6			SL	1				0.3	0.3
SCOPHTHALMUS AQUOSUS		39	36	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 SERRANICAE SPARIOAE LABRIDAE CR SCARIDAE MUGILICAE CALLIONYMICAE GOBIIDAE ACANTHURIDAE SCORPAENICAE TRIGLIOAE TETRAODONTIDAE UNIDENTIFIED											
.....													
P 4	15 12	SAMPLING DEPTH		0-15M				SAMPLING DEPTH		18-33M			
OPHICHTHUS OCELLATUS		1	1	20.3			TL					0.3	
BREVOORTIA TYRANNIUS		8	8	9.2	7.7-12.0		TL	2	2	5.2	0.3-10.1	TL	3.1
ETREPOS SADINA		1	1	13.1			TL					0.3	
CERATOSCOPELUS WAKMINGI		2	2	5.7	5.3- 6.1		SL					0.7	
LAMPANCTUS ALATUS CR PHOTONCTUS		2	2	4.2	4.1- 4.3		SL					0.7	
UROPHYCIS SP.		34	11	3.5	2.5- 5.6		NL	5	4	3.0	2.4- 3.8	NL	11.9
LEICSTOMUS XANTHURUS		322	102	4.2	3.0- 7.5		SL	84	82	4.0	2.8- 7.1	SL	124.6
MICROPOGON UNDULATUS		76	75	3.8	3.0- 7.0		SL	25	24	3.9	3.0- 7.7	SL	31.1
PEPILUS TRIACANTHUS		1	1	3.4			SL					0.3	
PRIONOTUS CARLINIUS		15	15	6.0	4.8- 7.0		SL	15	15	3.5	2.7- 6.7	SL	9.5
BETHUS OCELLATUS		15	15	4.6	3.0- 7.5		SL					5.0	
ETREPOS MICROSTOMUS								19	19	3.7	2.6-10.0	SL	6.3
PARALICHTHYS CENTATUS		2	2	3.5	3.2- 3.8		SL	4	1	3.2		SL	0.9
SYMPHURUS SP.		2	2	6.0	4.1- 7.8		SL					0.7	1.5
ADDITIONAL LARVAE CAUGHT		SYNOBONTICAE PARALEPIDIDAE OPHIOTIDAE SERRANICAE SPARIOAE LABRIDAE CR SCARIDAE MUGILICAE CALLIONYMICAE GOBIIDAE ACANTHURIDAE GEMPYLICAE STROMATEIDAE SCORPAENICAE TRIGLIOAE UNIDENTIFIED											
		SYNOBONTICAE PARALEPIDIDAE OPHIOTIDAE SYNGNATHICAE SERRANICAE SPARIOAE CHAETODONTICAE MUGILICAE GOBIICAE TRIGLIOAE UNIDENTIFIED											

TABLE 3. (continued)

[illegible]

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[illegible]

TABLE 3. (continued)

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CRUISE DATE	STATION	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PEP LON	2	
			NUMBER	LENGTHS (MM)	NO.	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	
C 3	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-24M						
		ADDITIONAL LARVAE CAUGHT							OPHICHTHIDAE						
									PHOLIDAE						
C 4	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-24M						
		GADUS MORHUA	2	2	5.2	3.8-6.5	SL	0						3	0.6
		MELANOGRAMMUS AEGLEFINUS	1	1	5.7		SL	0						0	0.3
		POLLACHIUS VIRENS						0	1	1	7.0		SL	0	0.2
		ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED						
C 5	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		CLUPEA HARENGUS HARENGUS	1	1	27.3		TL								0.3
		PACHYLOPS CIMBRIUS	1	1	6.8		SL	0	1	1	8.7		SL	0	0.6
		GADUS MORHUA	5	4	5.5	4.6-6.2	SL	1	5	5	5.5	4.1-6.5	SL	0	3.2
		POLLACHIUS VIRENS						0	9	8	8.2	4.9-11.0	SL	0	3.0
		AMMODYTES SP.	2	2	13.5	13.0-14.0	TL								0.7
		ADDITIONAL LARVAE CAUGHT							PHOLIDAE						
									UNIDENTIFIED						
C 6	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		GADUS MORHUA	6	6	5.6	4.6-7.7	SL	0	4	4	8.2	4.9-11.0	SL	0	3.1
		POLLACHIUS VIRENS	3	3	7.2	4.4-8.5	SL	0						0	1.0
		ADDITIONAL LARVAE CAUGHT							ANGUILLA ROSTRATA						
									PHOLIDAE						
C 7	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		GADUS MORHUA	3	3	6.1	4.2-7.2	SL	0	3	3	7.7	7.0-9.0	SL	0	1.9
		POLLACHIUS VIRENS						0	13	13	7.5	4.6-13.7	SL	0	4.3
		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	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		AMMODYTES SP.	4	4	13.8	12.9-15.3	TL								1.3
		ADDITIONAL LARVAE CAUGHT							PARALEPHTHICAE						
C 1	C 02		SAMPLING DEPTH 0-6M												
		POLLACHIUS VIRENS	3	3	5.0	3.3-5.9	SL	0							0.4
		AMMODYTES SP.	4	3	13.2	11.0-15.6	TL								0.5
		ADDITIONAL LARVAE CAUGHT							COTTIDAE						
C 2	C 02		SAMPLING DEPTH 0-6M												
		GADUS MORHUA	1	1	6.2		SL	0							0.1
		POLLACHIUS VIRENS	1	1	9.6		SL	0							0.1
		ADDITIONAL LARVAE CAUGHT							COTTIDAE						
C 3	C 02		SAMPLING DEPTH 0-15M												
		GADUS MORHUA	2	2	5.2	5.1-5.2	SL	5							0.6
		POLLACHIUS VIRENS	1	1	10.5		SL	0							0.3
		AMMODYTES SP.	1	1	13.0		TL								0.3
		ADDITIONAL LARVAE CAUGHT							PHOLIDAE						
C 4	C 02		SAMPLING DEPTH 0-15M												
		GADUS MORHUA	3	3	5.2	4.3-5.8	SL	0							0.9
		POLLACHIUS VIRENS	1	1	10.0		SL	0							0.3
		AMMODYTES SP.	1	1	12.2		TL								0.3
		ADDITIONAL LARVAE CAUGHT													
C 5	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-24M						
		GADUS MORHUA	2	1	7.8		SL	0	3	3	8.8	7.5-9.7	SL	2	1.1
		POLLACHIUS VIRENS						0	1	1	12.8		SL	0	0.2
		AMMODYTES SP.	1	1	21.2		TL		1	1	20.0		TL		0.5
		ADDITIONAL LARVAE CAUGHT							PHOLIDAE						
C 6	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		GADUS MORHUA	1	1	4.7		SL	0							0.3
		AMMODYTES SP.	19	19	14.4	12.0-17.8	TL		2	2	14.6	13.0-16.3	TL		6.4
		ADDITIONAL LARVAE CAUGHT							PHOLIDAE						
C 7	C 02		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 1E-33M						
		POLLACHIUS VIRENS	3	3	8.0	6.6-9.0	SL	0	2	2	8.3	8.0-8.5	SL	0	1.6
		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

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
066 1 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	
STA. 04 SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	NO. PER 100
04 C4 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-33M	EGGS
AMMOYTES SP.	2 2 16.6 15.5-17.8 TL		0.7
PARALICHTHYS DENTATUS		1 1 9.1 SL	0.3
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED	0.0
.....			
E 1 C5 02	SAMPLING DEPTH 0-6M		
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA		
	COTTIDAE		
.....			
F 2 C5 02	SAMPLING DEPTH 0-6M		
AMMOYTES SP.	3 3 14.1 11.6-17.2 TL		0.4
.....			
E 3 C5 02	SAMPLING DEPTH 0-6M		
GADUS MORHUA	2 2 9.1 7.2-10.9 SL	0	0.2
AMMOYTES SP.	9 9 14.5 7.3-17.5 TL		1.1
.....			
F 4 C5 02	SAMPLING DEPTH 0-15M		
CLUPPEA HARENGUS HARENGUS	1 1 32.0 TL		0.3
GADUS MORHUA	7 7 9.2 5.7-14.0 SL	0	2.1
AMMOYTES SP.	1 1 18.0 TL		0.3
ADDITIONAL LARVAE CAUGHT	PHOLIDAE		
.....			
E 5 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-24M	
CLUPPEA HARENGUS HARENGUS	1 1 33.2 TL		0.3
GADUS MORHUA	3 3 8.8 7.7-10.6 SL	1	1.0
POLLACHIUS VIRENS		0	0.2
AMMOYTES SP.	1 1 24.0 TL	1 1 4.1 SL	0.3
ADDITIONAL LARVAE CAUGHT	PHOLIDAE	PHOLIDAE	
	COTTIDAE		
	UNIDENTIFIED		
.....			
E 6 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-24M	
CLUPPEA HARENGUS HARENGUS	1 1 26.9 TL		0.3
GADUS MORHUA	2 2 7.7 6.5-8.9 SL	0	0.6
SCOPHTHALMUS AQUOSUS	1 1 9.2 SL		0.3
ADDITIONAL LARVAE CAUGHT	PHOLIDAE		
.....			
E 7 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-33M	
POLLACHIUS VIRENS	1 1 10.6 SL		0.3
AMMOYTES SP.	22 22 13.5 5.9-22.0 TL	0	7.3
.....			
F 8 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-33M	
AMMOYTES SP.	1 1 17.1 TL		0.3
.....			
F 2 C6 02	SAMPLING DEPTH 0-6M		
AMMOYTES SP.	7 7 13.7 10.8-16.4 TL		0.8
ADDITIONAL LARVAE CAUGHT	COTTIDAE		
.....			
F 3 C6 02	SAMPLING DEPTH 0-15M		
GADUS MORHUA	4 2 8.5 7.7-9.2 SL	0	1.2
AMMOYTES SP.	90 55 13.5 10.3-20.5 TL		27.3
PARALICHTHYS DENTATUS	1 1 7.2 SL	0	0.3
ADDITIONAL LARVAE CAUGHT	COTTIDAE		
.....			
F 4 C6 02	SAMPLING DEPTH 0-15M		
GADUS MORHUA	1 1 9.7 SL	0	0.3
AMMOYTES SP.	25 24 14.9 10.3-20.4 TL		7.6
.....			
F 5 C6 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-24M	
GADUS MORHUA	2 2 9.2 7.7-10.7 SL	0	1.7
AMMOYTES SP.	32 30 16.4 12.5-19.6 TL	84 47 16.9 12.6-21.8 TL	23.4
ADDITIONAL LARVAE CAUGHT	ANGUILLA ROSTRATA	ANGUILLA ROSTRATA	
	PHOLIDAE	BREGMACEROTIDAE	
		PHOLIDAE	
		UNIDENTIFIED	
.....			
F 6 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-33M	
POLLACHIUS VIRENS	2 2 8.3 8.1-8.4 SL	0	0.7
AMMOYTES SP.	3 3 14.9 12.5-16.4 TL	1 1 17.2 TL	1.2
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA	
		GOBIIDAE	
.....			
F 7 C5 02	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 1E-33M	

TABLE 3. (continued)

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CRUISE DATE			***** LARVAE *****					***** LARVAE *****					2	
DEG	1	1966	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10 ³					
STA.	D	M	TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS		
G 1	C 6	02	SAMPLING DEPTH 0- 6M											
			1	1	26.0								0.1	
			2	2	45.3	44.2-46.5	TL						0.2	
			1	1	9.6		SL			0			0.1	
			28	28	9.6	4.9-21.4	TL						3.4	
			ADDITIONAL LARVAE CAUGHT PHOLIDAE											
			COTTIDAE											
.....														
G 2	C 6	02	SAMPLING DEPTH 0- 6M											
			3	3	10.2	8.3-12.2	SL			0			0.4	
			60	50	11.9	6.9-22.7	TL						7.3	
			ADDITIONAL LARVAE CAUGHT COTTIDAE											
.....														
G 3	C 6	02	SAMPLING DEPTH 0-15M											
			1							0			0.3	
			33	33	12.9	5.4-19.1	TL						10.0	
.....														
G 4	C 6	02	SAMPLING DEPTH 0-15M											
			14	13	15.7	12.2-18.9	TL						4.2	
			ADDITIONAL LARVAE CAUGHT PHOLIDAE											
.....														
G 5	C 6	02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
			1	1	17.9		TL			0			0.3	
			12	12	11.8	9.6-18.0	TL						4.3	
			ADDITIONAL LARVAE CAUGHT PHOLIDAE											
.....														
G 6	C 6	02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
			1	1	16.5		TL						6.3	
			ADDITIONAL LARVAE CAUGHT LABRIDAE OR SCARIDAE					PHOLIDAE						
.....														
H 1	C 7	02	SAMPLING DEPTH 0- 3M											
			1	1	44.3		TL						0.1	
			15	15	10.9	5.6-18.6	TL						0.9	
			ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
.....														
H 2	C 7	02	SAMPLING DEPTH 0- 6M											
			2	2	21.1	19.4-22.5	TL						0.2	
			1	1	7.4		SL			0			0.1	
			1	1	7.6		NL						0.1	
			47	45	10.1	6.0-17.7	TL						5.7	
			ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
			COTTIDAE											
.....														
H 3	C 7	02	SAMPLING DEPTH 0- 6M											
			1	1	15.5		TL						0.1	
			1	1	6.5		SL			0			0.1	
			13	13	14.3	6.8-22.2	TL						1.6	
			ADDITIONAL LARVAE CAUGHT COTTIDAE											
.....														
H 4	C 6	02	SAMPLING DEPTH 0-15M											
			12	12	14.7	5.0-25.5	TL						3.6	
			ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA											
			GORIIDAE											
			UNIDENTIFIED											
.....														
H 5	C 6	02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
			3	3	16.9	15.5-18.6	TL						0.5	
			2	2	21.4	21.3-41.5	SL			0			0.3	
			ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA										0.0	
.....														
H 6	C 6	02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
			1	1	3.1		NL						0.3	
.....														
H 7	C 6	02	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
			1	1	13.1		SL			0			0.3	
			ADDITIONAL LARVAE CAUGHT SERRANIDAE					ANGUILLA ROSTRATA					0.0	
.....														
J 1	C 7	02	SAMPLING DEPTH 0- 6M											
.....														
J 2	C 7	02	SAMPLING DEPTH 0- 6M											
			1	1	59.5		TL						0.1	
			1	1	20.2		TL						0.1	

TABLE 3. (continued)

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CRUISE DATE STA. NO. SPECIES ANALYZED J 3 C7 02 AMMOCOYTES SP.	***** LARVAE *****				***** LARVAE *****				2	
	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		NO. PER 10M ²	EGGS
	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		LARVAE	EGGS
J 3 C7 02	SAMPLING DEPTH 0-6M									
AMMOCOYTES SP.	3	3 11.1 7.8-13.6 TL							0.4	
J 4 C7 02	SAMPLING DEPTH 0-15M									
AMMOCOYTES SP.	1	1 19.0 TL							0.3	
J 5 C7 02	SAMPLING DEPTH 0-15M									
BREVORTIA TYRANNUS	1	1 23.5 TL							0.3	
AMMOCOYTES SP.	2	2 21.9 20.8-23.1 TL							0.6	
J 6 C7 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
AMMOCOYTES SP.	3	3 17.2 14.1-19.0 TL			2	2 12.1 5.8-18.4 TL			1.3	
J 7 C7 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-23M					
ADDITIONAL LARVAE CAUGHT					CARAPIDAE					
K 1 C9 02	SAMPLING DEPTH 0-6M									
BREVORTIA TYRANNUS	3	3 16.8 9.5-25.4 TL							0.4	
AMMOCOYTES SP.	1	1 6.6 TL							0.1	
K 2 C9 02	SAMPLING DEPTH 0-15M									
BREVORTIA TYRANNUS	4	4 17.3 13.8-24.3 TL							1.2	
ANCHIA MITCHELLI	17	17 39.0 30.1-46.6 TL							5.2	
AMMOCOYTES SP.	4	4 15.0 11.6-17.8 TL							1.2	
SCOPHTHALMUS ADUSUS	2	2 7.2 5.6-8.7 SL							0.6	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE									
	COTTIDAE									
K 3 C7 02	SAMPLING DEPTH 0-15M									
BREVORTIA TYRANNUS	1	1 17.0 TL							0.3	
MICROPYGUS UNOLATUS	1	1 48.0 SL							0.3	
AMMOCOYTES SP.	3	3 15.7 16.7-24.0 TL							0.9	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE									
K 4 C7 02	SAMPLING DEPTH 0-15M									
AMMOCOYTES SP.	4	4 22.0 14.0-27.8 TL							1.2	
K 5 C7 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
EUCALYPTUS CMBRIUS					1	1 3.4 SL	0		0.2	C.C
AMMOCOYTES SP.	6	6 19.7 16.8-21.5 TL			8	8 18.8 13.5-29.5 TL			3.1	
PROCTOTUS CAROLINUS					1	1 30.4 SL			0.2	
ADDITIONAL LARVAE CAUGHT					GOBIIDAE					
K 6 C7 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
OPHICHTHUS OCELLATUS	1	1 33.5 TL							0.3	
BREVORTIA TYRANNUS	1	1 17.9 TL							0.3	
ENGRAULIS EURYSTOLE					2	2 18.4 17.9-19.0 TL			0.7	
URCAPHYCIS SP.	4	3 2.7 2.5-2.8 NL			1	1 2.3 NL			1.5	
URCAPHYCIS REGIUS	3	3 9.7 7.8-13.1 NL							1.0	
ACTHUS OCELLATUS	1								0.3	
ETROPUS MICROSTOMUS	1	1 7.6 SL							0.3	
PARALICHTHUS CENTATUS					0	1 8.9 SL	0		0.3	C.C
ADDITIONAL LARVAE CAUGHT	VINCIGUEFRIA SP.				CARAPIDAE					
	SEPRANICAE				GOBIIDAE					
K 7 C7 02	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
MYRICHTHYS OCELLATUS	1	1 99.9 TL							0.3	
OPHICHTHUS OCELLATUS	1	1 68.5 TL							0.3	
ENGRAULIS EURYSTOLE	1	1 12.5 TL							0.3	
NOTOSCOPULUS SP.					1	1 10.4 SL			C.3	
URCAPHYCIS REGIUS	1	1 6.1 NL							0.3	
SCOMBER JAPONICUS					0	1 11.9 SL	0		0.3	0.0
L 1 C9 02	SAMPLING DEPTH 0-6M									
BREVORTIA TYRANNUS	6	6 22.3 17.0-29.1 TL							0.7	
ANCHIA MITCHELLI	9	9 37.8 34.6-41.0 TL							1.1	
ADDITIONAL LARVAE CAUGHT	ANGUILLIA FESIRATA									

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
066 1 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	PC. PER 10M	EGGS		
STA.	DEPTH	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS		
N 3	C9 02	SAMPLING DEPTH	0-15M										
		49	49	13.7	7.1-29.8 TL					14.8			
		1	1	8.2	SL					0.3			
		2	2	2.5	2.1- 2.5 NL					0.6			
		1	1	22.3	NL					0.3			
		92	51	7.4	4.3-10.5 SL					27.9			
		7	7	6.1	4.6- 6.8 SL					2.1			
		3	3	7.4	4.2- 5.6 SL					0.9			
		6	6	7.0	3.8- 9.7 SL	0				1.8	0.		
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE											
		SERRANIIDAE											
		SPARIDAE											
		GOBIIDAE											
		SCORPAENIIDAE											
		UNIDENTIFIED											
.....													
N 4	C9 02	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-23M						
						1	1	40.3	NL		0.3		
		4	4	9.8	8.4-12.0 TL	3	3	5.7	9.2-10.4 TL		2.2		
		1	1	19.0	TL	1	1	10.5	TL		0.6		
		6	6	5.1	3.8- 5.8 SL						2.0		
		1	1	6.6	SL						0.3		
		3	3	8.5	6.9-10.4 SL	1	1	5.8	SL		1.2		
		1	1	8.9	SL	1	1	6.3	SL		0.6		
						1	1	5.1	SL		0.3		
						1	1	5.6	SL		0.3		
						3	3	7.3	6.0- 7.5 SL		1.0		
		3	3	4.2	3.2- 6.1 SL	1	1	4.8	SL		1.2		
		1	1	4.1	SL						0.3		
		2	2	5.8	5.7- 6.0 SL						0.7		
		1	1	4.5	SL	1	1	6.5	SL		0.6		
						12	11	3.2	2.5- 4.1 NL		4.0		
		4	4	2.3	1.6- 3.6 NL	2	1	4.8	NL		1.9		
		3	2	4.6	4.6- 4.7 SL	1	1	4.1	SL		1.2		
		1	1	8.7	SL						0.3		
		10	10	4.4	3.9- 5.2 SL	12	12	5.5	4.1- 7.5 SL		7.0		
		5	5	4.7	3.8- 5.7 SL	1	1	5.2	SL		1.8		
		8	8	3.3	1.7- 4.7 SL						2.7		
		5	5	6.3	4.2- 9.4 SL	1	1	7.2	SL		1.8		
		13	13	4.8	3.2- 9.8 SL	19	19	4.7	3.1- 6.0 SL		10.2		
		3	3	4.2	3.2- 5.2 SL	2	2	3.6	3.3- 4.0 SL	0	1.6		
		3	3	6.0	5.6- 6.5 SL	2	2	6.9	6.7- 7.0 SL		1.6		
ADDITIONAL LARVAE CAUGHT		CPHICHTHIDAE					SYNOODONTIDAE						
		NEPTASTOMATIDAE					PARALEPIDIDAE						
		STOMIATIDAE					BREGMACEROTIDAE						
		SYNOODONTIDAE					OPHIIDIIDAE						
		PARALEPIDIDAE					SERRANIIDAE						
		BREGMACEROTIDAE					CARANGIIDAE						
		CPHIDIIDAE					SPARIDAE						
		SERRANIIDAE					LABRIDAE OR SCARIDAE						
		CARANGIIDAE					GOBIIDAE						
		SPARIDAE					TRICHIURIDAE						
		LABRIDAE OR SCARIDAE					SCORPAENIIDAE						
		MUGILICAE					BALISTIDAE						
		CALLIONYMIDAE					TETRAODONTIDAE						
		GOBIIDAE					UNIDENTIFIED						
		CEMPYLIDAE											
		SCORPAENIIDAE											
		BALISTIDAE											
		TETRAODONTIDAE											
		UNIDENTIFIED											

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[illegible]

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
P66 1 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	EGGS			
STA.	04	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE			
P 5	09 02	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M			PER 10M ² EGGS			
OPHICHTHUS OCELLATUS						1	1	38.0		TL	0.3		
ARREVOZOTIA TYRANNUS		21	21	10.1	7.0-16.0	TL	5	5	10.5	6.5-15.4	TL	8.0	
RENTHOSEMA SUDRATILE						1	1	6.3		SL	0.3		
CERATOSCOPELUS MAHEFENSIS		1	1	6.1		SL					0.3		
CERATOSCOPELUS WAMMINGI		1	1	5.0		SL					0.3		
DIAPHUS SP.		1	1	7.1		SL					1.0		
HYGOPHUM RENOUITII OR HYGOMI						2	2	6.7	6.3- 7.1	SL	0.3		
ACTELYCHNUS VALDIVIAE						1	1	5.5		SL	0.7		
NETESCOPULUS SP.						2	2	5.7	5.2- 6.3	SL	1.6		
NETESCOPULUS RESPLENDENS		1	1	6.5		SL	4	4	6.3	5.8- 7.1	SL	0.7	
UPOPHYCIS SP.		8	6	2.0	1.7- 2.5	NL	2	2	5.7	5.2- 6.2	SL	3.1	
HEMANTHIAS VIVANUS		5	4	3.3	2.8- 3.8	SL	1	1	2.7	2.5- 2.9	NL	1.8	
PICTURANTHIAS GARNOPPELLUS						1	1	3.5		SL	0.7		
LEICISTOMUS XANTHULUS		10	10	4.2	3.4- 5.4	SL	2	2	4.7	4.5- 4.9	SL	3.7	
MICROPOGON UNDULATUS		3	3	3.7	3.4- 4.2	SL	2	2	5.2	5.2- 5.4	SL	1.2	
ALXIS SP.						1	1	6.5		SL	0.3		
RETHUS OCELLATUS		3	3	4.1	3.8- 4.4	SL	1	1	5.5		SL	1.2	
ETREPIUS MICROSTOMUS		3	3	4.2	4.1- 4.3	SL	1	1	7.4		SL	2.9	
PARALICHTHYS DENTATUS		3	3	4.5	4.1- 4.9	SL	6	6	4.5	3.9- 5.5	SL	1.0	
ADDITIONAL LARVAE CAUGHT					4					0	1.3		
		OPHICHTHIDAE					MURAENIDAE						
		MYCTOPHIIDAE					OPHICHTHIDAE						
		CPHIIDAE					NETTASTOMATIDAE						
		SERRANIDAE					SYNOONTIDAE						
		SPARIDAE					BREGMACEROTIDAE						
		MUGILIDAE					OPHIDIIDAE						
		CALLIONYMIDAE					SERRANIDAE						
		GOBIIDAE					SPARIDAE						
		SCORPAENIDAE					LABRIDAE OR SCARIDAE						
		UNIDENTIFIED					CALLIONYMIDAE						
							GOSIIDAE						
							GEMPYLIDAE						
							SCORPAENIDAE						
							TRIGLIDAE						
							UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****					
C66 ? 1966		NUMBER LENGTHS (MM) NC.				NUMBER LENGTHS (MM) NC.					
STA.	DATE	TOTAL MEAS. MEAN RANGE MEAS. EGGS				TOTAL MEAS. MEAN RANGE MEAS. EGGS				NO. PER 10M LARVAE	2 EGGS
A 1	06 04	SAMPLING DEPTH 0-6M									
	CLUPEA HARENGUS HARENGUS	6	6	34.7	31.1-39.9 TL					0.7	
	GADUS MORHUA	1	1	6.2	NL					0.1	0.0
	AMMODYTES SP.	13	13	15.3	8.2-28.7 TL					1.6	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE									
		COTTIDAE									
A 2	06 04	SAMPLING DEPTH 0-15M									
	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					1.8	0.3
	AMMODYTES SP.	18	15	23.8	8.9-47.4 TL					5.5	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE									
		BLENNIIDAE									
		COTTIDAE									
A 3	06 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	22	22	35.0	27.9-41.5 TL					7.3	
	GADUS MORHUA	1								0.3	2.3
	AMMODYTES SP.	27	27	16.6	5.5-39.7 TL					14.8	
	PSEUDOPLEURONCTES AMERICANUS	6	4	3.9	3.4-4.2 SL					2.0	
	ADDITIONAL LARVAE CAUGHT	COTTIDAE				PHOLIDAE					
						COTTIDAE					
A 4	06 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	5	5	26.3	24.9-28.5 TL					3.5	
	GADUS MORHUA	3	3	5.2	4.6-5.9 NL					1.0	2.7
	AMMODYTES SP.	10	10	19.4	5.3-29.8 TL					14.7	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE					
		COTTIDAE				PHOLIDAE					
						COTTIDAE					
A 5	07 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	1	1	29.5	TL					2.3	
	AMMODYTES SP.	1	1	18.5	TL					1.0	
	ADDITIONAL LARVAE CAUGHT	COTTIDAE				BLENNIIDAE					
						COTTIDAE					
A 6	07 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	AMMODYTES SP.	5	5	22.3	15.5-35.5 TL					1.7	
A 7	07 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	CLUPEA HARENGUS HARENGUS	3	3	21.5	28.6-24.0 TL					2.2	
	GADUS MORHUA	1	1	29.9	SL					0.3	0.0
	AMMODYTES SP.	73	70	20.6	13.4-31.3 TL					29.6	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE				BLENNIIDAE					
		COTTIDAE									
		UNIDENTIFIED									
B 1	07 04	SAMPLING DEPTH 0-6M									
	AMMODYTES SP.	11	10	13.9	6.8-26.0 TL					1.3	
	PSEUDOPLEURONCTES AMERICANUS	6	4	4.1	3.5-4.9 SL					0.7	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE									
		COTTIDAE									
B 2	07 04	SAMPLING DEPTH 0-15M									
	GADUS MORHUA	5	2	5.9	4.3-7.5 NL					1.5	0.3
	AMMODYTES SP.	10	10	13.9	7.6-22.9 TL					3.0	
	LIIMANDA FERRUGINEA	7	7	3.7	3.5-3.9 SL					2.1	
	PSEUDOPLEURONCTES AMERICANUS	73	25	3.5	3.0-4.2 SL					22.1	
	ADDITIONAL LARVAE CAUGHT	BLENNIIDAE									
		COTTIDAE									
		UNIDENTIFIED									
P 3	07 04	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
	ENCYCLIDOPUS CIMBRIUS									1	0.0
	GADUS MORHUA	4	4	15.6	4.2-47.6 SL					0	0.3
	MELANOGRAMMUS AEGLEFINUS									1	0.0
	AMMODYTES SP.	4	4	14.2	12.8-15.7 TL					1	0.3
	CITHARICHTHYS ARCTIFRONS	1								1.5	
	LIIMANDA FERRUGINEA	4	3	3.8	3.5-4.2 SL					0.3	
	PSEUDOPLEURONCTES AMERICANUS	76	13	4.0	3.2-5.4 SL					1.3	
	ADDITIONAL LARVAE CAUGHT	COTTIDAE				PHOLIDAE				25.3	
		UNIDENTIFIED				COTTIDAE					

TABLE 3. (continued)

CRUISE DATE STA. 04 SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				2	
	NUMBER	LENGTHS (MM)	NO.	EGGS	NUMBER	LENGTHS (MM)	NO.	EGGS	NO. PER 10M	EGGS
SAMPLING DEPTH 0-15M	TOTAL MEAS.	MEAN RANGE MEAS.	TOTAL MEAS.	MEAN RANGE MEAS.	SAMPLING DEPTH 18-33M	TOTAL MEAS.	MEAN RANGE MEAS.	TOTAL MEAS.	LARVAE	EGGS
R 4 C7 04	2	2 33.7 32.3-35.2 TL								
CLUPEA HARENGUS HARENGUS									0.7	
ENCYCLYOPUS CIMBRIUS			0					3	0.0	1.0
GADUS MORHUA			11					3	0.0	4.3
MELANOGRAMMUS AEGIEFINUS			0					4	0.0	1.3
AMMOCTES 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					
R 5 C7 04										
ENCYCLYOPUS CIMBRIUS			1					1	0.0	0.6
GADUS MORHUA			2					2	0.0	1.3
MELANOGRAMMUS AEGIEFINUS			1					0	0.0	0.3
POLLACHIUS VIRENS	1	1 8.7	NL					0	0.3	0.0
AMMOCTES 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					
R 6 C7 04										
ENCYCLYOPUS CIMBRIUS			1					0	0.0	0.3
GADUS MORHUA			1					0	0.0	0.3
MELANOGRAMMUS AEGIEFINUS			1					0	0.0	0.3
AMMOCTES 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					
R 7 C7 04										
CERATOSCOPELUS WAKINGI								21	21 3.3 2.4-6.1 SL	7.0
AMMOCTES SP.	19	19 22.4 12.9-24.1 TL			4	4 16.3 14.4-19.6 TL			7.0	
LIMANDA FERRUGINEA	2								0.7	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED				UNIDENTIFIED					
C 1 C8 04										
GADUS MORHUA				1					0.0	0.3
AMMOCTES 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 C8 04										
POLLACHIUS VIRENS	1	1 16.1	SL	0					0.3	0.0
AMMOCTES 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 C8 04										
CLUPEA HARENGUS HARENGUS	1	1 34.0	TL	0					0.3	
POLLACHIUS VIRENS	2	2 13.8 12.5-15.0 SL			1	1 7.9	NL	0	0.8	0.0
AMMOCTES 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					
	SCORPAENIDAE				PHOLIDAE					
	COTTIDAE									
	UNIDENTIFIED									
C 4 C8 04										
ENCYCLYOPUS CIMBRIUS			0					1	1 4.9	NL
GADUS MORHUA			4					2	2 6.1 4.6-7.7 NL	0
POLLACHIUS VIRENS	1	1 4.6	NL	0				0	0.7	1.9
AMMOCTES SP.									0.3	0.0
LIMANDA FERRUGINEA	84	25 4.1 3.2-5.2 SL			1	1 35.0	TL		0.3	
ADDITIONAL LARVAE CAUGHT	COTTIDAE				63	25 3.9 3.1-4.9 SL			46.2	
	BLENNIIDAE									
C 5 C8 04										
ENCYCLYOPUS CIMBRIUS			0					1	1 2.4	SL
GADUS MORHUA			4					1	1 4.2	SL
AMMOCTES SP.	2	2 25.5 22.5-28.6 TL			2	2 15.8 17.7-21.9 TL			0.3	1.5
GLYPTOCEPHALUS CYNAGLASSUS	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)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
D66 3 1966		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10 ^m LARVAE	EGGS	
STA. 04 SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.				
C 6 CR 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		
GLYPTOCEPHALLUS CYNDOGLOSSUS							3	2	5.8	5.4-6.2	SL	1.0		
LIMANDA FERRUGINEA		65	25	4.8	3.3-6.2	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 CR 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 CR 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 CR 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						73.0		
ADDITIONAL LARVAE CAUGHT		SYNGNATHICAE												
		PHOLIDAE												
		COTTIDAE												
		UNIDENTIFIED												
D 2 CR 04		SAMPLING DEPTH 0-6M												
AMMODYTES SP.		6	6	30.9	24.9-38.6	TL						0.7		
GLYPTOCEPHALLUS CYNDOGLOSSUS		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 CR 04		SAMPLING DEPTH 0-15M												
FACELLYOPLIS 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												
C 4 CR 04		SAMPLING DEPTH 0-15M												
GADUS MORHUA		2	2	3.9	3.7-4.1	SL						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 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
FACELLYOPLIS CIMBRIUS		1	1	4.6	SL	1					0	0.3	0.3	
GADUS MORHUA		3	3	5.2	4.8-5.9	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 TACILINUS		1	1	44.0	TL		1	1	3.8	TL		0.6		
GLYPTOCEPHALLUS CYNDOGLOSSUS							1	1	4.7	SL		0.3		
LIMANDA FERRUGINEA		30	26	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 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUFFA HAPENSIS HAPENSIS		1	1	30.7	TL							0.3		
GADUS MORHUA						6	3	3	4.1	3.3-5.2	SL	3	1.0	2.8
POLLACHTUS VIRENS						0	1	1	4.1	SL	0	0.3	0.0	
AMMODYTES SP.		1	1	44.1	TL							0.3		
GLYPTOCEPHALLUS CYNDOGLOSSUS							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	23.4		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED							
D 7 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
D 8 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
BENTHOSEMA GLACIALE							2	2	6.5	6.1-6.9	SL	0.7		
ADDITIONAL LARVAE CAUGHT		PARALEPITICAE					UNIDENTIFIED							

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					NO. PER 10M	
STA.	DATE	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	LA FV AE	EGGS	
E 1	13 04		SAMPLING DEPTH	0-6M			TOTAL MEAS.	MEAN	RANGE				
		PSEUDOPLEURONECTES AMERICANUS	2	1	12.1	SL					0.2	0.0	
		AMMOCYTES SP.	20	20	36.7	21.3-45.5 TL					2.4		
		PSEUDOPLEURONECTES AMERICANUS	13	13	4.4	3.9-4.9 SL					1.6		
		ADDITIONAL LARVAE CAUGHT	ANGUILLAE RESTRATA BLENNIICAE PHOLIDAE COTTIDAE										
.....													
F 2	13 04		SAMPLING DEPTH	C-6M									
		AMMOCYTES SP.	26	26	37.5	22.2-48.2 TL					3.2		
		PSEUDOPLEURONECTES AMERICANUS	34	25	4.2	3.2-5.4 SL					4.1		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										
.....													
E 3	22 04		SAMPLING DEPTH	0-15M									
		AMMOCYTES SP.	3	3	41.6	31.8-50.0 TL					0.9		
		ADDITIONAL LARVAE CAUGHT	ANGUILLAE RESTRATA BLENNIICAE										
.....													
F 4	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-24M					
		ENCYCLYOPUS CIMBRIUS	1	1	2.0	SL	0				0.3	0.0	
		GADUS MORHUA	5	4	4.0	3.4-4.8 SL	6	1	1	4.0	SL	1.7	
		GLYPTOCEPHALUS CYNCELESSUS	15	8	5.1	4.2-6.0 SL	10	5	5.5	5.0-6.5 SL		6.2	
		LIMANDA FERRUGINEA	353	25	3.8	2.7-5.3 SL	334	25	3.8	2.9-5.3 SL		142.4	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED GOBIIDAE UNIDENTIFIED										
.....													
E 5	22 04		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M					
		GADUS MORHUA					0	1	1	4.1	SL	0.2	
		AMMOCYTES SP.						1	1	24.4	TL	0.2	
		GLYPTOCEPHALUS CYNCELESSUS	2	2	6.0	5.9-6.0 SL	3	3	5.6	5.8-5.9 SL		1.1	
		LIMANDA FERRUGINEA	255	25	4.1	3.0-5.8 SL	240	25	4.6	3.3-7.2 SL		117.1	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 6	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS					0	1	1	3.2	SL	0.3	
		GADUS MORHUA					0	1	1	3.9	SL	0.3	
		LIMANDA FERRUGINEA	59	25	3.8	3.0-5.6 SL		61	25	4.7	3.3-6.7 SL	38.0	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 7	22 04		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS					1						
		GLYPTOCEPHALUS CYNCELESSUS						2	2	5.7	4.7-6.7 SL	0.7	
		LIMANDA FERRUGINEA	17	17	4.8	3.3-7.7 SL		28	24	4.3	3.3-5.4 SL	14.4	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 8	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS	1				0						
		LIMANDA FERRUGINEA	1	1	6.1	SL					0.3	0.0	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
F 1	14 04		SAMPLING DEPTH	C-6M									
		GLYPTOCEPHALUS CYNCELESSUS	1	1	5.0	SL					0.1		
		PSEUDOPLEURONECTES AMERICANUS	199	25	4.2	3.0-5.6 SL					24.1		
		ADDITIONAL LARVAE CAUGHT	PHOLIDAE COTTIDAE										
.....													
F 2	14 04		SAMPLING DEPTH	0-6M									
		ENCYCLYOPUS CIMBRIUS	1	1	3.5	SL	0				0.1	0.0	
		AMMOCYTES SP.	4	4	29.1	25.8-31.0 TL					0.5		
		LIMANDA FERRUGINEA	4	4	4.0	2.9-4.5 SL					0.5		
		PSEUDOPLEURONECTES AMERICANUS	210	25	4.2	3.3-6.3 SL					25.5		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE COTTIDAE UNIDENTIFIED										
.....													
F 3	14 04		SAMPLING DEPTH	0-15M									
		GADUS MORHUA					1				0.0	0.3	
		AMMOCYTES SP.	5	5	24.7	20.9-32.5 TL					1.5		
		PSEUDOPLEURONECTES AMERICANUS	37	19	4.1	3.0-5.8 SL					11.2		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE [66 3 1966 STA. 74 SPECIES ANALYZED F 4 14 04	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LAFV/E	2 EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS		
	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS		
F 4 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
GADUS MORHUA	1	1	6.5	SL	1						0.3	0.3
AMMODYTES SP.	5	5	37.3 33.7-44.0	TL							1.5	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	5.6	SL							0.3	
LIWANDA FERRUGINEA	3	3	7.6 3.0- 4.0	SL							0.9	
PSEUDOPLEURONECTES AMERICANUS	23	21	4.1 2.7- 6.5	SL							7.0	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	UNIDENTIFIED											
F 5 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA						5					0.0	4.5
GLYPTOCEPHALUS CYNODLOSSUS						2	2	4.6 4.7- 4.8	SL	9	0.7	
LIWANDA FERRUGINEA	8	7	3.7 3.4- 4.0	SL		33	25	4.1 3.5- 4.7	SL		13.4	
PSEUDOPLEURONECTES AMERICANUS						3	3	5.7 4.5- 6.7	SL		1.0	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
	BLENNIIDAE											
	UNIDENTIFIED											
F 6 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	1	1	12.2	SL	2	1	1	4.3	SL	0	0.6	0.7
AMMODYTES SP.	1	1	18.2	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	6.0	SL		1	1	5.0	SL		0.6	
LIWANDA FERRUGINEA	73	25	4.7 3.7- 6.5	SL		41	25	4.5 3.7- 7.1	SL		35.6	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	UNIDENTIFIED											
F 7 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.						2	2	31.2 27.6-34.8	TL		0.7	
LIWANDA FERRUGINEA	7	7	5.5 4.7- 6.2	SL		18	17	5.7 4.8- 6.9	SL		8.1	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
	UNIDENTIFIED											
G 1 15 04	SAMPLING DEPTH 0-6M											
GADUS MORHUA	3	3	4.3 3.8- 4.6	SL	0						0.4	0.0
AMMODYTES SP.	3	3	33.6 28.5- 37.8	TL							0.4	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	5.7	SL							0.1	
LIWANDA FERRUGINEA	3	3	3.6 2.9- 4.2	SL							0.4	
PSEUDOPLEURONECTES AMERICANUS	108	25	4.3 2.9- 6.2	SL							13.1	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	UNIDENTIFIED											
G 2 15 04	SAMPLING DEPTH 0-6M											
GADUS MORHUA					1						0.0	0.1
PELLACHIVUS VIRENS	1	1	21.4	SL	0						0.1	0.0
AMMODYTES SP.	4	4	24.4 21.1-31.6	TL							0.5	
GLYPTOCEPHALUS CYNODLOSSUS	6	5	5.6 5.0- 6.2	SL							0.7	
LIWANDA FERRUGINEA	1										0.1	
PSEUDOPLEURONECTES AMERICANUS	115	25	4.2 3.2- 5.7	SL							13.9	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	UNIDENTIFIED											
G 3 15 04	SAMPLING DEPTH 0-15M											
GADUS MORHUA	3	2	5.8 4.2- 7.4	NL	2						0.9	0.6
LIWANDA FERRUGINEA	12	12	4.2 3.4- 5.0	SL							3.6	
PSEUDOPLEURONECTES AMERICANUS	15	12	4.9 3.4- 6.2	SL							4.5	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	PHOLIDAE											
G 4 15 04	SAMPLING DEPTH 0-15M											
GADUS MORHUA	2	2	4.5 4.1- 4.5	SL	12						0.6	3.6
AMMODYTES SP.	1	1	43.8	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	3	2	4.7 4.7- 4.7	SL							0.9	
LIWANDA FERRUGINEA	54	25	4.0 3.1- 5.5	SL							16.4	
PSEUDOPLEURONECTES AMERICANUS	1	1	4.3	SL							0.3	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE											
	UNIDENTIFIED											
G 5 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.	1	1	44.3	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	13	5	5.6 5.5- 5.9	SL		4	1	5.8	SL		5.2	
LIWANDA FERRUGINEA	38	25	4.3 3.5- 5.8	SL		5	4	4.2 3.3- 4.6	SL		13.1	
PSEUDOPLEURONECTES AMERICANUS	1	1	5.4	SL							0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
G 6 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.	1	1	26.0	TL		1	1	32.6	TL		0.6	
LIWANDA FERRUGINEA						1	1	5.1	SL		0.3	

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
066 3 1966		NUMBER LENGTHS (MM) NO.					NUMBER LENGTHS (MM) NO.					NO. PER 10M	
STA. 0 M SPECIES ANALYZED		TOTAL MEAS. MEAN RANGE MEAS. EGGS					TOTAL MEAS. MEAN RANGE MEAS. EGGS					LARVAE	
F 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	
AMMODYTES SP.		1 1 22.0 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	
AMMODYTES 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	
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											
F 5 15 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
GADUS MORHUA												0.0	
AMMODYTES SP.		1 1 40.2 TL					1					0.3	
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										0.3	
PELLACHIAS VIRENS		1 1 27.9 SL					0					0.3	
AMMODYTES 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 FCSTRATA					UNIDENTIFIED						
H 7 15 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES 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							TETRAODONTIDAE 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											
BREVODONTIA TYRANNUS		1 1 29.4 TL										0.1	
AMMODYTES 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							1 1 6.5 SL					0.2	
AMMODYTES SP.		4 4 35.6 32.2-39.5 TL					0					1.3	
J 7 16 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.		6 6 28.7 25.9-31.1 TL					8 6 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)

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CRUISE DATE STA. NO. M	SPECIES ANALYZED	***** LARVAE *****				NO. MEAS. EGGS	***** LARVAE *****				NO. MEAS. EGGS	NO. PER 10M LARVAE	2 EGGS
		NUMBER	LENGTHS (MM)	RANGE	MEAS.		NUMBER	LENGTHS (MM)	RANGE	MEAS.			
K 1 19 04	REPCORTIA TYRANNUS	2	2	27.3	25.3-29.3 TL							0.2	
K 2 19 04													
K 3 19 04													
K 4 19 04	LIMANDA FERRUGINEA	1	1	6.7	SL							0.3	
K 5 19 04	AMMOCYTUS SP.												
	GLYPTOCEPHALUS CYNCELOSSUS												
	LIMANDA FERRUGINEA	4	4	5.5	5.2- 5.7 SL								
	ADDITIONAL LARVAE CAUGHT				ELENNITICAE								
K 6 19 04	LIMANDA FERRUGINEA	4	4	5.9	5.4- 6.2 SL							3.5	
K 7 19 04	LIMANDA FERRUGINEA	3	2	6.1	5.0- 7.2 SL							1.0	
L 1 20 04	REPCORTIA TYRANNUS	1	1	25.0	TL							0.1	
	SCOPHTHALMUS AQUINUS	3	3	3.2	3.0- 3.7 SL							0.4	
L 2 20 04	SCOPHTHALMUS AQUINUS	1	1	3.1	SL							0.1	
L 3 20 04	SCOPHTHALMUS AQUINUS	1	1	3.2	SL							0.3	
L 4 20 04	GLYPTOCEPHALUS CYNCELOSSUS												
	LIMANDA FERRUGINEA	1	1	8.0	SL							0.3	
		1	1	3.8	SL							0.3	
L 5 20 04	LIMANDA FERRUGINEA												
		1	1	11.2	SL							0.3	
M 1 20 04	REPCORTIA TYRANNUS	12	12	22.7	20.6- 24.7 TL							1.5	
	PEPRILUS TRIACANTHUS	1	1	5.8	SL							0.1	
	SCOPHTHALMUS AQUINUS	3	3	3.4	3.2- 3.9 SL							0.4	
M 2 20 04	SCOPHTHALMUS AQUINUS	2	2	3.5	3.4- 3.5 SL							0.2	
M 3 20 04	PEPRILUS CAROLINUS	1	1	7.5	SL							0.1	
	PARALICHTHYS TENTATUS	2	2	8.4	8.2- 8.7 SL	0						0.2	0.0
	ADDITIONAL LARVAE CAUGHT				SYNGONOTICAE								
					GOBIIDAE								

TABLE 3. (continued)

CRUISE DATE 1966 STA. NO. M SPECIES ANALYZED	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. PER 10 ^m LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS		NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS		
STATION 4 20 04													
PELICHTHUS OCELLATUS							2	26.1	23.5-28.7	TL		0.7	
ETRAEUS SADIKA							1	16.0		TL		0.3	
ANGUILLA HEPSETUS	6	6	12.0	7.7-19.8	TL							2.0	
ENGRAULIS EUPYSTOLE							1	13.5		TL		0.3	
CERATOSCOPELUS MAHERENSIS	4	4	5.3	4.4- 7.2	SL		5	5.8	5.1- 6.5	SL		2.9	
CERATOSCOPELUS WAKMINCI	2	2	8.2	6.6- 9.8	SL		1	5.2		SL		0.9	
DIAPHYS SP.	4	2	5.2	4.3- 6.1	SL		1	6.3		SL		1.5	
HYGROPHUM BENOTTI	1	1	7.5		SL		1	7.3		SL		0.6	
HYGROPHUM BENOTTI OR HYGROPHUM	1	1	5.7		SL		1	5.0		SL		0.6	
LAMPANICTES ATER	1	1	5.5		SL							0.3	
UPHRYCHIS SP.	2	2	3.6	2.8- 4.5	NL		3	3.8	3.7- 3.9	NL		1.6	
HEMANTHIS VIANUS	3	2	4.5	4.2- 4.8	SL							1.0	
AMPHICHTHYS SP.	2	2	30.6	17.1-44.2	TL							0.7	
PEPRILUS TRIACANTHUS	3	3	3.3	2.3- 4.4	SL		6	4.7	3.7- 6.8	SL		2.9	
ROTHUS OCELLATUS	4	4	3.0	2.5- 3.5	SL		1	3.5		SL		1.5	
CITRARICHTHYS ARCTIFRONS	4	4	3.6	2.5- 4.3	SL		12	6.2	3.5- 8.2	SL		5.2	
ETRAEUS MICROSTOMUS	1	1	3.1		SL		1	5.5		SL		0.6	
SYACIUM PAPILLOSUM	3	3	3.8	3.5- 4.2	SL							1.0	
ADDITIONAL LARVAE CAUGHT	MURAENICAE						CYCLOTHONE SP.						
	CYCLOTHONE SP.						SYNOODONTICAE						
	SYNOODONTICAE						OPHIOTIDAE						
	BREGMACETIDAE						SERRANIDAE						
	OPHIOTIDAE						LABRIDAE OR SCAPICAE						
	SERRANIDAE						SCORPAENICAE						
	SPARIDAE						TRIGLIDAE						
	GOBIIDAE						UNIDENTIFIED						
	SCORPAENICAE												
	TRIGLIDAE												
	UNIDENTIFIED												
STATION 5 20 04													
ETRAEUS SADIKA							6	7.7	4.6-11.8	TL		2.7	
ENGRAULIS EUPYSTOLE							6	15.1	10.0-19.5	TL		2.0	
MYCTOPHIDAE	1	1	5.5		SL		5	5.4	4.6- 6.4	SL		2.0	
CERATOSCOPELUS MAHERENSIS	3	3	6.8	5.9- 8.4	SL		4	5.3	4.5- 6.1	SL		2.2	
HYGROPHUM BENOTTI	1	1	7.6		SL		2	7.5	7.1- 8.0	SL		1.0	
LAMPANICTES SP.							2	4.7	4.5- 4.5	SL		0.7	
MYCTOPHUM AFFINE							3	5.9	5.1- 6.6	SL		1.0	
UPHRYCHIS SP.							2	3.8	3.5- 4.2	NL		0.7	
HEMANTHIS VIANUS	2	2	5.2	4.6- 5.8	SL							0.7	
LEICISTOMUS XANTHINUS							3	4.3	3.7- 5.1	SL		1.0	
PEPRILUS TRIACANTHUS	5	5	6.7	4.6- 9.4	SL		13	5.2	3.3- 6.8	SL		5.8	
PRISTIGRUS CARLINIUS	2	2	5.5	5.7- 6.1	SL		2	5.6	5.3- 6.0	SL		1.3	
ROTHUS OCELLATUS	1	1	3.7		SL		3	6.2	3.3-11.9	SL		1.3	
CITRARICHTHYS ARCTIFRONS							2	5.1	4.6- 5.5	SL		0.7	
ETRAEUS MICROSTOMUS							3	5.9	3.9- 7.7	SL		1.0	
SYMPHURUS SP.	4	4	11.7	10.0-12.5	SL		7	9.2	4.5-14.0	SL		3.5	
ADDITIONAL LARVAE CAUGHT	SYNOODONTICAE						CYCLOTHONE SP.						
	OPHIOTIDAE						SYNOODONTICAE						
	SERRANIDAE						OPHIOTIDAE						
	POMACENTRIDAE						SERRANIDAE						
	LABRIDAE OR SCAPICAE						CARANGIDAE						
	BLENNIICAE						SPARIDAE						
	SCORPAENICAE						LABRIDAE OR SCAPICAE						
	TRIGLIDAE						POTIDAE						
	UNIDENTIFIED						STROMATEICAE						
							SCORPAENICAE						
							UNIDENTIFIED						
STATION 1 20 04													
PREVORTIA TYRANNUS	3	3	15.2	14.1-17.0	TL							0.9	
LEICISTOMUS XANTHINUS	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	
PRISTIGRUS CARLINIUS	1	1	2.1		SL							0.3	
PARALICHTHYS CENTRUS	14	14	9.0	6.9-10.9	SL							4.2	0.0
ADDITIONAL LARVAE CAUGHT	STOMIATIDAE												
	SYNOODONTICAE												
	SYNGNATHICAE												
	SERRANIDAE												
	SPARIDAE												
	GOBIIDAE												
	SCORPAENICAE												
	TRIGLIDAE												

TABLE 3. (continued)

COLLECTOR DATE	***** LARVAE *****	***** LARVAE *****		
066 2 1966	NUMBER	LENGTHS (MM)	NO.	2
STA. 04 SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.
N 2 20 04	SAMPLING DEPTH 0-6M			
PREVOORTIA TYFANNUS	1	1	14.0	TL
ANCHOA HEPSETUS	2	2	11.4	8.0-14.5 TL
MYCTOPHUM AFFINE	1	1	5.2	SL
LEICISTOMUS XANTHURUS	1	1	9.1	SL
PEPRILUS TRIACANTHUS	1	1	8.6	SL
PRINCOTUS CAPLINUS	21	21	3.6	2.2- 5.4 SL
CITHARICHTHYS ARCTIFRONS	4	4	3.9	3.1- 4.6 SL
PARALICHTHYS DENTATUS	1	1	8.7	SL
ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNODONTIDAE SERRANIDAE GOBIIDAE UNIDENTIFIED			
.....				
N 3 20 04	SAMPLING DEPTH 0-15M		SAMPLING DEPTH 18-24M	
PREVOORTIA TYFANNUS	9	9	15.0	11.0-17.4 TL
ETALMEUS SADIKA	49	49	28.7	11.0-60.8 TL
ANCHOA HEPSETUS	2	2	15.3	11.5-19.2 TL
ENGRAULIS EURYSTOFE	11	11	31.1	25.0-43.1 TL
MYCTOPHIDAE				
CERATOSCOPELUS MADERENSIS	2	2	7.1	6.2- 8.0 SL
CERATOSCOPELUS WAKMINCI	1	1	5.6	SL
HYGOPHUM BENDITI				
LOPHIUS AMERICANUS	1	1	3.6	TL
HEMANTHIAS VIVANUS				
LARIMUS FASCATUS				
LEICISTOMUS XANTHURUS	9	5	9.0	7.3-11.1 SL
MICROPYGON UNDULATUS	1	1	5.2	SL
PEPRILUS TRIACANTHUS	1	1	5.5	SL
PRINCOTUS CAPLINUS	23	23	3.6	2.3- 8.5 SL
ROTHUS OCCELLATUS				
CITHARICHTHYS ARCTIFRONS	1	1	12.0	SL
MACULENE SPSSILICAUCA	1	1	7.0	SL
PARALICHTHYS DENTATUS	11	11	8.4	6.0-10.2 SL
SCOPHTHALMUS AQUOSUS				
ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNODONTIDAE BREGMACEROTIDAE OPHIIDAE SPARIDAE SCORPAENIDAE TRIGLIDAE UNIDENTIFIED			
.....				
N 4 20 04	SAMPLING DEPTH 0-15M		SAMPLING DEPTH 18-33M	
OPHIICHTHUS GOMESI	1	1	14.5	TL
PREVOORTIA TYFANNUS	1	1	19.0	TL
ETALMEUS SADIKA				
ANCHOA HEPSETUS	17	17	8.1	2.5-14.4 TL
ENGRAULIS EURYSTOFE				
CERATOSCOPELUS MADERENSIS	3	3	6.4	5.7- 7.3 SL
CERATOSCOPELUS WAKMINCI				
DIAFUS SP.	1	1	6.8	SL
HYGOPHUM BENDITI				
LAMPANYCTUS ALATUS OR PHOTICCTUS	3	3	5.0	4.8- 5.1 SL
MYCTOPHUM AFFINE	2	2	8.0	6.9- 9.1 SL
UFFEHCYDIS SP.	2	2	3.5	2.8- 4.3 SL
HEMANTHIAS VIVANUS	1	1	3.2	SL
LEICISTOMUS XANTHURUS	1	1	4.4	SL
MENTICIRPHUS SP.	1			
AUXIS SP.	2	2	6.9	6.7- 7.1 SL
PEPRILUS TRIACANTHUS	38	38	2.5	1.4- 8.2 SL
PRINCOTUS CAPLINUS	4	4	6.6	5.9- 8.0 SL
ROTHUS OCCELLATUS	5	5	5.1	2.6-11.1 SL
CITHARICHTHYS ARCTIFRONS				
CYCLOPSETTA FEMBRATA	1	1	4.5	SL
ETALPUS MICROSTOMUS	3	3	8.7	4.6-11.2 SL
PARALICHTHYS DENTATUS	3	3	4.4	3.7- 5.6 SL
SYMPHYRUS SP.	10	5	7.2	4.1-11.6 SL
ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNODONTIDAE BREGMACEROTIDAE OPHIIDAE SERRANIDAE SPARIDAE CARANGIDAE LABRIDAE OR SCARIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED			
.....				

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
C66 3 1966	NUMBER	LENGTHS (MM)	NO.
STA. 04 SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE	MEAS. EGGS
N 5 20 04	SAMPLING DEPTH	C-15M	NO. EGGS
MYCTOPHIDAE			
CERATOSCOPELUS MAHERENSIS	44	44 6.4 4.7-10.2	SL
CERATOSCOPELUS MAHERENSIS	48	48 4.9 3.8- 7.1	SL
DIAPIUS SP.	3	3 5.3 5.0- 5.8	SL
LAMPANYCTUS SP.			
LAMPANYCTUS ALATUS CP PHOTONCTUS	3	3 4.1 4.0- 4.2	SL
LAMPANYCTUS ATER	1	1 5.3	SL
LAMPADENA SP.			
MYCTOPHUM DUTSIRIUS			
HEMANTHUS VIVANUS	2	2 6.2 5.3- 7.1	SL
ALXIS SP.	6	6 4.6 4.1- 5.1	SL
KATSUMONUS PELAMIS	1	1 5.6	SL
THUNNUS THYNNUS			
PRIONOTUS CARLINIUS	3	3 4.2 3.0- 5.3	SL
BOTHUS DELTATUS	1	1 7.2	SL
CITHARICHTHYS ARCTIFRONS	1	1 6.0	SL
ETROPUS MICROSTOMUS			
SYMPHURUS SP.			
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.		
	SYNDONOTIDAE		
	CHLOROPHTHALMICAE		
	PARALEPTIDAE		
	BREGMACROTIDAE		
	SERRANIDAE		
	GRAMMISTIDAE		
	CARANGIDAE		
	COMACENTRIDAE		
	LABRIDAE OR SCARIDAE		
	MUGILIDAE		
	SPHYRAENIDAE		
	GOBIIDAE		
	GEMPYLIDAE		
	SCORPAENIDAE		
	UNIDENTIFIED		
P 1 21 04	SAMPLING DEPTH 0- 6M		
P 2 21 04	SAMPLING DEPTH 0- 6M		
ANCHOA HEPSETUS	1	1 16.6	TL
PARALICHTHYS DENTATUS	1		
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED		
P 3 21 04	SAMPLING DEPTH 0- 6M		
PARALICHTHYS DENTATUS	1	1 5.3	SL
ADDITIONAL LARVAE CAUGHT	SPARIDAE		
	UNIDENTIFIED		
P 4 21 04	SAMPLING DEPTH 0-15M		
ANCHOA HEPSETUS			
ANTHOSEMA SUPRORBITALE			
LOPHIUS AMERICANUS	2	2 4.6 4.5- 4.8	TL
LEICISTOMUS XANTHURUS	1	1 9.4	SL
PEPRILUS TRIACANTHUS	6	6 7.0 4.0-12.2	SL
CITHARICHTHYS ARCTIFRONS	2	2 11.5 11.8-12.0	SL
ETROPUS MICROSTOMUS			
PARALICHTHYS DENTATUS			
SYMPHURUS SP.	1	1 5.7	SL
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.		
	DPHIDIIDAE		
	SPARIDAE		
	SYNGNATHICAE		
	SPARIDAE		
	UNIDENTIFIED		
			</

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
NO	DATE	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.		AD. PER 10M	
STA.	NO	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LAPVAE	
P 5	21 04	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-33M				EGGS	
MYCOPHIDAE		2	2	4.1	4.0-4.3	SL						1.9	
CERATOSCOPELUS MADERENSIS		3	3	6.0	5.0-7.4	SL						1.0	
CERATOSCOPELUS WAKMINCI		40	40	4.9	3.1-7.9	SL						21.3	
DIAPHUS SP.		6	6	4.9	4.3-6.2	SL	28	28	5.6	3.6-7.9	SL	8.1	
LAMFANYCTUS SP.		2	2	3.1	3.1-3.1	SL	19	19	5.6	3.7-5.3	SL	1.3	
LAMFANYCTUS NCALIS							2	2	4.7	4.7-4.7	SL	0.7	
LAMFADENA SP.							2	2	5.5	5.3-6.6	SL	0.3	
MYCOTOPHUM ORTUSIRISTRIS							2	2	8.2	7.8-8.6	SL	0.3	
MYCOTOPHUM SELENDIPS							1	1	5.2		SL	0.3	
ACTOSCOPELUS SP.		1	1	5.8		SL	1	1	4.5		SL	0.3	
HEMANTHIAS VIANUS							4	4	3.3	3.2-3.6	SL	1.3	
PLECTRANTHIAS GARKUPELLUS							2	2	4.0	3.8-4.2	SL	0.7	
KATSUONOUS PELAMIS		2	2	4.5	4.5-4.6	SL						0.7	
ACTHUS OCELLATUS		4	4	9.3	3.3-19.5	SL	5	5	5.6	4.4-6.9	SL	2.9	
SYACIUM PAPILLOSUM		1	1	6.2		SL						0.3	
ADDITIONAL LARVAE CAUGHT		CYCLOTHONE SP.					CYCLOTHONE SP.						
		VINCIGUEPRIA SP.					STOMIATICA						
		PARALEPIDIAE					CHLOROPHTHALMIDAE						
		BREGMACETIDAE					PARALEPIDIAE						
		EXOCELTIDAE					SERRANIDAE						
		SERRANIDAE					GRAMMISTIDAE						
		GRAMMISTIDAE					CHAETODONTIDAE						
		CARANGIDAE					POMACENTRIDAE						
		CORYPHAENIDAE					LABRICA OR SCARICAE						
		LABRICA OR SCARICAE					Gobiidae						
		ACANTHURICAE					ACANTHURICAE						
		UNIDENTIFIED					SCORPAENICAE						
							UNIDENTIFIED						

CRUISE DATE		***** LARVAE *****					***** LARVAE *****						
C66 5 1966	STA. 04	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		AD. PER 10M			
SPECIES ANALYZED		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		LAPVAE	EGGS		
A 7 13 05		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M							
MYCOPHIDIAE		5	5 4.3 3.7-5.0 SL							1.7			
RENTHOSEMA GLACIAE						2	2 5.4 5.0-5.8 SL			0.7			
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 AEGIEFINUS		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 VIRENS				0		1	1 4.2	0		0.3	0.0		
GLYPTOCEPHALUS CYNOCLOSSUS		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			SCORPAENICAE				SCORPAENICAE						
			UNIDENTIFIED				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		
UPHYSICUS CHUSS		1	1 4.6							0.2			
MELANOGRAMMUS BILINEARIS		1	1 71.2	0						0.2	0.0		
AMMODYTES SP.		7	7 35.7 16.7-60.5 TL							1.3			
SCOMBER SCOMBRUS				109						0.0	15.5		
LIPARIS INQUILINUS		69	63 4.4 3.3-10.0 TL							12.5			
PSEUDOPLEURONECTES AMERICANUS		71	25 7.3 6.0-9.2 SL							12.9			
ADDITIONAL LARVAE CAUGHT			BLENNIIICAE										
			COTTIOAE										
			UNIDENTIFIED										
B 2 13 05		SAMPLING DEPTH C-15M											
ENCHALYPTUS 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 CYNOCLOSSUS		1	1 6.2							0.3			
LIMANDA FERRUGINEA		13	13 5.5 3.6-8.5 SL							3.9			
PSEUDOPLEURONECTES AMERICANUS		4	4 6.7 6.1-7.5 SL							1.2			
ADDITIONAL LARVAE CAUGHT			BLENNIIICAE										
			COTTIOAE										
B 3 13 05		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M							
ENCHALYPTUS CIMBRIUS		6	6 2.6 2.2-2.8 SL	0				0		2.0	0.0		
GADUS MORHUA		16	16 9.0 3.5-18.6 SL	0		4	4 6.6 5.3-12.7 SL	0		6.1	0.0		
MELANOGRAMMUS AEGIEFINUS		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	11.5		
LIPARIS INQUILINUS		24											

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2			
NO. 5 1966		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M LARVAE	EGGS		
STA. D M SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE MEAS.			TOTAL MEAS.		MEAN RANGE MEAS.						
C 8 14 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
BENTHOSOMA SP.							1	1	5.5		SL	0.3			
BENTHOSOMA GLACIAE		3	3	6.8	6.5- 7.2	SL						1.0			
ENCHELYPUS CIMBRIUS						0						0.0	0.3		
GADUS MORHUA						0	3	3	6.5	4.7- 7.6	SL	0	0.0		
MELANOGRAMMUS AEGIEFINUS						0	1	1	4.3		SL	0	0.3		
AMMODYTES SP.		2	2	36.1	33.3-39.0	TL	1	1	23.8		TL		0.9		
LIMANDA FERRUGINEA		4	4	7.6	6.0- 9.4	SL	4	1	6.5		SL		2.5		
ADDITIONAL LARVAE CAUGHT							MYCTOPHIDAE								
.....															
C 1 16 05		SAMPLING DEPTH 0-6M													
ENCHELYPUS CIMBRIUS		7	7	3.1	2.2- 3.9	SL						0.8	0.0		
AMMODYTES SP.		1	1	11.0		NL						0.1			
SCOMBER SCOMBRUS						2752						0.0	333.5		
LIPARIS INQUILINUS		1	1	3.7		TL						0.1			
LIMANDA FERRUGINEA		11	10	5.0	3.7- 6.2	SL						1.3			
PELOPLEURONCTES AMERICANUS		2	1	4.2		SL						0.2			
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE								
.....															
O 2 16 05		SAMPLING DEPTH 0-6M													
ENCHELYPUS CIMBRIUS		11	11	3.2	2.2- 5.4	SL						1.3	C.C		
SCOMBER SCOMBRUS						5235						0.0	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								
.....															
O 3 16 05		SAMPLING DEPTH 0-15M													
ENCHELYPUS CIMBRIUS		4	4	3.1	2.4- 3.9	SL						1.2	2.1		
AMMODYTES SP.		1	1	41.8		TL						0.3			
SCOMBER SCOMBRUS						750						0.0	227.3		
LIMANDA FERRUGINEA		207	25	5.1	3.9- 6.7	SL						62.7			
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE								
.....															
O 4 16 05		SAMPLING DEPTH 0-15M													
ENCHELYPUS CIMBRIUS		20	17	3.6	3.0- 4.2	SL						6.1	2.4		
GADUS MORHUA		1	1	5.4		SL						0.3	0.0		
MELANOGRAMMUS AEGIEFINUS		1	1	6.2		SL						0.3	0.0		
SCOMBER SCOMBRUS						66						0.0	2C.C		
LIPARIS INQUILINUS		4	4	4.8	4.3- 5.2	TL						1.2			
LIMANDA FERRUGINEA		613	25	5.0	3.7- 5.9	SL						15.7			
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE								
.....															
O 5 16 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
ENCHELYPUS CIMBRIUS		12	12	4.3	3.3- 9.5	SL		12	12	4.2	3.3- 6.5	SL	0	5.6	0.0
GADUS MORHUA		2	2	6.6	6.5- 6.7	SL						0	0.6	0.0	
SCOMBER SCOMBRUS						42						29	0.0	17.6	
LIPARIS INQUILINUS							1	1	4.6		TL		0.2		
GLYPTOCEPHALUS CYNOGLOSSUS		2	2	8.5	8.5- 8.5	SL	2	1	8.3		SL		0.9		
LIMANDA FERRUGINEA		624	25	4.8	3.9- 5.7	SL	617	25	4.7	3.3- 5.7	SL		251.3		
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE								
.....							UNIDENTIFIED								
O 6 17 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHELYPUS CIMBRIUS		2	2	3.7	3.5- 3.9	SL		1	1	4.9		SL	0	0.9	0.0
GADUS MORHUA		3	3	6.7	4.3- 9.2	SL						0	1.0	0.0	
AMMODYTES SP.		2	2	32.5	31.0-34.0	TL							0.7		
SCOMBER SCOMBRUS						6						1	0.0	2.1	
GLYPTOCEPHALUS CYNOGLOSSUS		6	5	6.7	5.7- 7.7	SL	6	3	6.7	5.3- 8.0	SL		3.8		
LIMANDA FERRUGINEA		471	25	5.2	3.4- 6.7	SL	398	25	5.4	3.4- 8.0	SL		273.9		
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE								
.....															
O 7 17 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
ENCHELYPUS CIMBRIUS						0	3	3	2.5	2.3- 2.7	SL		0	1.0	0.0
SCOMBER SCOMBRUS						2						0	0.0	0.7	
GLYPTOCEPHALUS CYNOGLOSSUS							2	1	7.7		SL		0.7		
LIMANDA FERRUGINEA		126	25	5.1	3.4- 6.7	SL	156	25	6.1	4.2- 8.9	SL		19.8		
ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED								
.....															
O 8 17 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
MYCTOPHIDAE							1	1	5.1		SL		0.3		
BENTHOSOMA SP.							1	1	6.4		SL		0.3		
ENCHELYPUS CIMBRIUS						1	1	1	2.4		SL	0	0.3	0.3	
MELANOGRAMMUS AEGIEFINUS		1	1	9.1		SL						0	0.3	C.C	
GLYPTOCEPHALUS CYNOGLOSSUS		2	1	6.3		SL	2						1.3		
HIPPOGLOSSOIDES PIATISSOIDES							1	1	10.0		SL		0.3		
LIMANDA FERRUGINEA		38	25	7.3	4.7- 11.2	SL	24	22	7.5	4.0-10.0	SL		19.4		

CRUISE DATE		***** LARVAE *****					***** LARVAE *****							
STA.	TIME	NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO.	PER 10M	
		TOTAL	MEAS.	MEAN	RANGE	MEAS.	TOTAL	MEAS.	MEAN	RANGE	MEAS.	LARVAE	EGGS	
F 1	13 05	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		1	1	21.2		SL	0					0.1	0.0	
AMMOCYTUS SP.		2	2	40.4	31.9-48.9	TL	1127					0.2	136.6	
SCOMBER SCOMBRUS												0.0		
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		
PSEUDOPLEURONECTES AMERICANUS		14	14	7.7	4.4-8.9	SL						1.7		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
E 2	19 05	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		9	9	3.3	2.7-4.0	SL	0					1.1	0.0	
SCOMBER SCOMBRUS							4378					0.0	530.6	
SCOPHTHALMUS AQUOSUS		1										0.1		
LIMANDA FERRUGINEA		56	25	6.3	4.6-11.5	SL						6.8		
PSEUDOPLEURONECTES AMERICANUS		2	2	7.9	7.0-8.7	SL						0.2		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
E 3	18 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		6	6	4.0	2.7-7.2	SL	1					1.8	0.3	
GADUS MORHUA		2	2	7.8	7.5-8.0	SL	0					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						23.3		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
F 4	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		6	6	3.0	2.2-3.4	SL	0	5	5	3.3	1.8-5.2	SL	2	3.3
GADUS MORHUA		5	4	4.7	3.9-5.6	SL	2	1	1	5.1		SL	0	1.7
SCOMBER SCOMBRUS							104					33	0.0	
LIPARIS INQUILINUS		4	3	5.6	5.4-6.0	TL		4	4	6.3	5.2-6.5	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		275	25	5.1	3.3-6.7	SL		54.8
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
E 5	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		1	1	1.8		SL	1	1	1	2.8		SL	1	0.5
SCOMBER SCOMBRUS							7					8	0.0	
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		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
E 6	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		11	11	3.2	2.5-3.8	SL	0	12	12	3.2	2.5-3.7	SL	0	5.3
SCOMBER SCOMBRUS							3					0	0.0	
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						
***** LARVAE *****														
E 7	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
E 8	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS							1					3	0.0	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
F 1	18 05	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 18-24M						
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		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
F 2	18 05	SAMPLING DEPTH 0-6M						SAMPLING DEPTH 18-24M						
SCOMBER SCOMBRUS							413					0.0	50.1	
SCOPHTHALMUS AQUOSUS		40	33	3.1	2.4-4.6	SL						4.8		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						
***** LARVAE *****														
F 3	18 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		1	1	22.4		SL	0					0.3	0.0	
TAUTOGA DITIS		1										0.3		
SCOMBER SCOMBRUS							2489					0.0	1114.6	
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
PSEUDOPLEURONECTES AMERICANUS		2	2	7.0	5.9-8.1	SL						0.6		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED						UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE	STATION	SPECIES ANALYZED	NUMBER	MEAN LENGTHS (MM)	NO. EGGS	NUMBER	MEAN LENGTHS (MM)	NO. EGGS	NO. PER 10M LARVAE	10M EGGS
STA.	D.M.		TOTAL	RANGE		TOTAL	RANGE			
F 4	18 05		SAMPLING DEPTH 0-15M							
		EACHELYOPUS 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		TL		0.3	
		SCOPHTHALMUS AQUOSUS	1	1	3.7		SL		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								
F 5	19 05		SAMPLING DEPTH 0-15M							
		EACHELYOPUS CIMBRIUS	5	5	5.6	2.5-15.4	SL	5	2.8	1.7
		SCOMBER SCOMBRUS						47	0.0	19.4
		LIPARIS INQUILINUS	7	3	7.2	6.3-9.0	TL	2	2.8	
		GLYPTOCEPHALUS CYNOGLOSSUS	3	3	5.8	5.2-6.7	SL	4	2.2	
		LIMANDA FERRUGINEA	356	25	5.9	2.9-10.2	SL	150	156.8	
		PSEUDOPLEURONECTES AMERICANUS						1	0.3	
		ADDITIONAL LARVAE CAUGHT								
F 6	18 05		SAMPLING DEPTH 0-15M							
		EACHELYOPUS CIMBRIUS	1	1	2.4		SL	0	0.3	0.0
		GADUS MORHUA						0	0.3	0.0
		SCOMBER SCOMBRUS						7	0.0	3.4
		LIPARIS INQUILINUS	3	3	7.1	6.5-7.8	TL	2	1.6	
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	5.7		SL	5	2.0	
		LIMANDA FERRUGINEA	513	25	4.9	3.5-8.3	SL	326	262.5	
		ADDITIONAL LARVAE CAUGHT								
F 7	19 05		SAMPLING DEPTH 0-15M							
		EACHELYOPUS CIMBRIUS						1	0.0	0.3
		SCOMBER SCOMBRUS						2	0.0	0.9
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	8.5		SL	1	0.6	
		LIMANDA FERRUGINEA	58	25	7.3	5.2-10.2	SL	49	33.7	
		ADDITIONAL LARVAE CAUGHT								
G 1	19 05		SAMPLING DEPTH 0-6M							
		SCOMBER SCOMBRUS							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							
		TAUTOGA ONITIS	22	3	2.3	2.1-2.6	TL		2.7	
		SCOMBER SCOMBRUS							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							
		EACHELYOPUS CIMBRIUS	1	1	3.5		SL	1	0.3	0.3
		TAUTOGA ONITIS	18	1	2.5		TL		5.5	
		SCOMBER SCOMBRUS							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		SL		0.9	
		PSEUDOPLEURONECTES AMERICANUS	12	12						

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
STA. D M SPECIES ANALYZED		NUMBER	LENGTHS [MM]	NO.	NUMBER	LENGTHS [MM]	NO.	NO. PER	10M		
H 1 19 05		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LARVAE	EGGS		
CYANOSION SP.		2	2 2.7 2.7- 2.8 SL	326					0.1		
MENTIGIRRHUS SP.		4	4 2.8 2.5- 3.4 SL		0.2						
SCOMBER SCOMBRUS					0.0						
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						
PSEUDOPLEURONECTES AMERICANUS		3	3 7.4 7.1- 7.7 SL				0.2				
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
F 2 19 05		SAMPLING DEPTH 0-15M									
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		
PSEUDOPLEURONECTES AMERICANUS		8	7 6.7 3.7- 8.5 SL						2.4		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
F 3 19 05		SAMPLING DEPTH 0-15M									
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		
PSEUDOPLEURONECTES AMERICANUS		1	1 6.2 SL						0.3		
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
H 4 20 05		SAMPLING DEPTH 0-15M									
EACHELYOPLS CIMBRIUS		3	3 3.7 3.2- 4.1 SL	0					0.9	C.C	
GADUS MORHUA		1	1 14.6 SL	0					0.3	C.C	
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		
.....											
F 5 20 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
EACHELYOPLS 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	C.C		
SCOMBER SCOMBRUS				E3			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 5.2 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					
.....											
F 6 20 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
EACHELYOPLS 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			
.....											
F 7 20 05		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
EACHELYOPLS CIMBRIUS		1	1 2.4 SL	0			0	0.3	0.0		
LIMANDA FERRUGINEA					3			1.0			
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
.....											
J 1 21 05		SAMPLING DEPTH 0- 6M									
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 UNIDENTIFIED						SYNGNATHIDAE UNIDENTIFIED					
.....											
J 2 21 05		SAMPLING DEPTH 0- 6M									
BREVDORTIA TYFANNUS		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 UNIDENTIFIED						SYNGNATHIDAE					
.....											
J 3 21 05		SAMPLING DEPTH 0- 6M									
BREVDORTIA TYFANNUS		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 *****					2				
STA.	NO	SPECIES ANALYZED	NUMBER	MEAS.	MEAN	RANGE	MEAS.	NO.	NUMBER	MEAS.	MEAN	RANGE	MEAS.	NO.	PER 10M	EGGS
J 4	20 05		TOTAL	NO.	MEAS.	MEAN	RANGE	MEAS.	TOTAL	NO.	MEAS.	MEAN	RANGE	MEAS.	NO.	PER 10M
		SCOMBER SCOMBRUS	9	9	4.6	3.4- 6.8	SL	79							2.7	23.9
		SCOPHTHALMUS AQUOSUS	72	63	3.4	2.7- 6.2	SL								21.8	
		GLYPTOCEPHALUS CYNOCLOSSUS	2	2	12.4	12.2-12.5	SL								0.6	
		LIMANDA FERRUGINEA	61	25	8.0	5.4- 9.7	SL								18.5	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....																
J 5	20 05		SAMPLING DEPTH	C-15M												
		ENCYCLYOPUS CIMBRIUS	1	1	3.7		SL	0							0.3	C.C
		SCOMBER SCOMBRUS	5	5	3.3	3.1- 3.6	SL	5							1.5	1.5
		SCOPHTHALMUS AQUOSUS	22	21	3.2	2.7- 5.0	SL								6.7	
		LIMANDA FERRUGINEA	188	25	7.9	5.6-12.4	SL								57.0	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....																
J 6	20 05		SAMPLING DEPTH	0-15M					SAMPLING DEPTH	18-33M						
		ENCYCLYOPUS CIMBRIUS	1	1	4.1		SL	0							0.3	C.C
		SCOMBER SCOMBRUS						4							0.0	2.9
		LIMANDA FERRUGINEA	10	9	5.6	3.7- 7.8	SL		26	25	5.2	3.9- 7.4	SL		11.7	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							
.....																
J 7	20 05		SAMPLING DEPTH	0-15M					SAMPLING DEPTH	18-33M						
		SCOMBER SCOMBRUS						4							0.0	1.5
		SCOPHTHALMUS AQUOSUS							2	2	3.1	2.9- 3.3	SL		0.7	
		LIMANDA FERRUGINEA	35	25	6.3	4.3-10.2	SL		52	25	6.1	4.8- 8.9	SL		27.8	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							
.....																
K 1	21 05		SAMPLING DEPTH	0- 6M												
		PREVOORTIA TYRANNUS	1	1	26.0		TL								0.1	
		LEICSTOMUS XANTHINUS	2	2	13.1	12.1-14.2	SL								0.2	
		SCOMBER SCOMBRUS	9	9	4.4	3.9- 5.4	SL	1							1.1	C.1
		SCOPHTHALMUS AQUOSUS	35	28	3.6	2.6- 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	
		TALOGA ONITIS	8	7	2.8	2.7- 3.1	TL								1.0	
		SCOMBER SCOMBRUS	295	60	3.9	2.5- 7.7	SL	0							25.8	C.C
		PARALICHTHYS CENTATUS	1	1	9.5		SL	0							0.1	C.C
		SCOPHTHALMUS AQUOSUS	109	50	3.3	2.5- 4.7	SL								13.2	
		LIMANDA FERRUGINEA	2	2	9.0	8.0-10.0	SL								0.2	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....																
K 3	21 05		SAMPLING DEPTH	0-15M												
		TALOGA ONITIS	2												0.6	
		SCOMBER SCOMBRUS	218	57	4.3	2.8- 8.1	SL	0							66.1	C.C
		CITHARICHTHYS ARCTIFRONS	1	1	3.1		SL								0.3	
		SCOPHTHALMUS AQUOSUS	34	30	4.2	2.8- 6.1	SL								10.3	
		GLYPTOCEPHALUS CYNOCLOSSUS	5	5	14.6	11.9-17.6	SL								1.5	
		LIMANDA FERRUGINEA	13	13	8.4	6.7-10.7	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	3.5- 4.9	TL								0.6	
		ENCYCLYOPUS CIMBRIUS						0	1	1	4.6		SL	0	0.2	C.C
		SCOMBER SCOMBRUS	119	46	3.4	2.5- 5.5	SL	0	11	7	3.9	3.1- 4.9	SL	0	38.5	0.0
		SCOPHTHALMUS AQUOSUS	2	1	2.8		SL		1	1	5.6		SL		0.8	
		GLYPTOCEPHALUS CYNOCLOSSUS	3	2	10.2	9.6-10.7	SL		1	1	5.0		SL		1.1	
		LIMANDA FERRUGINEA	36	25	7.2	5.3- 9.2	SL		55	25	7.1	4.5-10.5	SL		19.9	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....																
K 5	22 05		SAMPLING DEPTH	C-15M					SAMPLING DEPTH	18-24M						
		LOPHIUS AMERICANUS	1	1	3.3		TL		4	4	4.0	3.5- 5.2	TL		1.0	
		MERLUCCIIUS BILINEARIS	1	1	2.5		NL	0							0.3	C.C
		SCOMBER SCOMBRUS	118	52	3.1	2.5- 5.1	SL	0	53	38	3.2	2.5- 5.4	SL	0	44.8	0.0
		SCOPHTHALMUS AQUOSUS	2												0.6	
		LIMANDA FERRUGINEA	27	24	5.7	4.7- 9.1	SL		13	10	5.2	4.6- 6.8	SL		10.4	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							
.....																
K 6	22 05		SAMPLING DEPTH	C-15M					SAMPLING DEPTH	18-33M						
		ENCYCLYOPUS CIMBRIUS	1	1	2.9		SL	0							0.3	C.C
		UDECYCHIS SP.							5	5	3.4	2.8- 3.9	NL	0	1.7	
		SCOMBER SCOMBRUS						0	3	3	4.0	3.8- 4.2	SL	0	1.0	0.0
		GLYPTOCEPHALUS CYNOCLOSSUS							4	2	6.1	5.4- 6.7	SL		1.3	
		LIMANDA FERRUGINEA	20	17	5.9	4.5- 8.0	SL		88	25	7.0	4.2-13.2	SL		35.3	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							

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[illegible]

TABLE 3. (continued)

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CRUISE DATE 066 5 1966 STA. D M SPECIES ANALYZED M 3 23 05	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER TOTAL MEAS.	MEAN SAMPLING DEPTH	LENGTHS (MM) RANGE 0-6M	MEAS.	NO. EGGS	NUMBER TOTAL MEAS.	MEAN SAMPLING DEPTH	LENGTHS (MM) RANGE	MEAS.	NO. EGGS	NO. PER 10M LARVAE	EGGS
SARINELLA ANCHOVIA	3	3	12.5	10.5-14.8	TL						0.4	
ANCHOA HEPSETUS	4	4	9.2	7.0-12.0	TL						0.5	
MYCOPHIDAE	1	1	5.2		SL						0.1	
CERATOSCOPELUS MANEFENSIS	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	
ETRCPUUS 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	SYNOODONTIDAE OPHIIDAE SERRANIDAE CORYPHAENIDAE SPARIDAE LABRIDAE OR SCARIDAE MUGILIDAE GOBIIDAE ACANTHURIDAE STROMATEIDAE SCORPAENIDAE TRIGLIDAE BALISTIDAE UNIDENTIFIED											
M 4 23 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-24M						
OPHIICHTHYS SP.	1	1	58.5		TL						0.3	
ANCHOA HEPSETUS						25	25	9.3	5.0-14.7	TL	4.0	
ENGRAULIS EURYSTOLE	42	42	2.8	1.1-17.3	TL						13.6	
MYCOPHIDAE	3	3	5.3	4.8- 6.0	SL	1	1	5.6		SL	1.1	
CERATOSCOPELUS MANEFENSIS	1	1	5.6		SL						0.3	
CERATOSCOPELUS WAKAMINGI						1	1	5.9		SL	0.2	
HYGROPHUM BENOITI OR HYGOMI	1	1	4.8		SL						0.3	
HYGROPHUM TANNINGI						1	1	5.6		SL	0.2	
LAMFANYCTUS SP.	1	1	4.0		SL	1	1	4.8		SL	0.5	
LAMFANYCTUS ATER	1	1	5.1		SL	1	1	6.7		SL	0.5	
MYCOPHIDAE						2	2	4.7	4.4- 5.1	SL	0.3	
PEMATOMUS SALTATRIX	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	5	5	5.4	4.5- 6.6	SL	3.3	
ELTHYNNUS ALLETTENATUS	1	1	6.1		SL						0.3	
SARCA SARCA						6					0.0	2.3
SCORPARIUS JAPONICUS	2	2	5.6	5.5- 5.8	SL	0					0.0	0.0
SCORPARIUS CAVALLA	1	1	7.5		SL						0.6	
PEPRILUS TRIACANTHUS	41	41	4.0	1.7- 9.8	SL	2	2	6.6	6.3- 6.9	SL	0.6	
ROTHUS OCELLATUS	3	3	3.6	3.2- 3.9	SL	27	27	3.9	2.5- 6.5	SL	17.0	
CYCLOPSSETTA EMBRIATA	2	2	6.0	5.0- 6.9	SL	5	4	6.6	4.1-14.3	SL	1.7	
SYACIUM PAPILLOSUM	25	24	4.3	2.1- 6.2	SL	1	1	4.0		SL	0.8	
SYMPHURUS SP.	38	38	5.4	3.1-13.6	SL	19	19	5.0	4.1- 6.1	SL	10.8	
ADDITIONAL LARVAE CAUGHT	MURAENIDAE OPHIICHTHIDAE CYCLOTHERA SP. SYNOODONTIDAE LOPHIIFORMES OPHIIDAE BREGMACEROTIDAE OPHIIDAE SERRANIDAE APOGONIDAE CARANGIDAE SPARIDAE LABRIDAE OR SCARIDAE MUGILIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE STROMATEIDAE SCORPAENIDAE TRIGLIDAE BALISTIDAE UNIDENTIFIED					MURAENIDAE OPHIICHTHIDAE SYNOODONTIDAE LOPHIIFORMES OPHIIDAE SERRANIDAE APOGONIDAE CARANGIDAE SPARIDAE LABRIDAE OR SCARIDAE SPHYRAENIDAE BLENNIIDAE GOBIIDAE ACANTHURIDAE TRICHIURIDAE STROMATEIDAE SCORPAENIDAE TRIGLIDAE BALISTIDAE TETRAODONTIDAE UNIDENTIFIED					3	

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[illegible]

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
NO. 5 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	NO. PER 10M
STA. 04 SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	LARVAE EGGS
N 4 24 05	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
OPHICHTHUS GOMESI		1 1 21.0 TL	0.3
SARCIINELLA ANCHOVIA	4 4 6.3 5.4- 7.4 TL	1 1 10.2 TL	1.5
ANCHOA MEFETUS		33 33 10.6 6.8-14.6 TL	11.0
ENGRANULIS FURCATUS		9 9 5.4 6.5-12.2 TL	3.0
CERATOSCOPELUS MAHORENSIS	2 2 8.7 7.8- 5.7 SL	1 1 8.9 SL	0.9
CERATOSCOPELUS MAHORENSIS	6 6 6.8 5.2-10.4 SL	1 1 5.2 SL	2.1
CIAPHUS SP.	2 2 4.2 3.5- 4.5 SL	5 5 6.2 3.9- 7.5 SL	2.3
HYGROPHUM PENNATI		1 1 4.5 SL	0.3
LAMPANYCTUS ALATUS OR RHOTACTUS		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
ACTISCOPELUS RESPIRANS		1 1 8.2 SL	0.3
UROPHYCIS SP.		4 2 2.5 2.2- 2.8 ML	1.3
HEMANTHUS VIVANUS		1 1 4.8 SL	0.3
PEROMYXUS SALTATRIX	1 1 5.1 SL		0.3
LARIMUS FASCIAUS	1 1 3.9 SL		0.3
AUXIS SP.	13 13 5.5 5.0- 7.6 SL	15 15 6.7 4.6- 9.5 SL	8.9
ELTHYNUS ALLETTATUS	1 1 6.7 SL	1 1 8.5 SL	0.6
SARCA SARDIA			0.0
PERILUS TRIACANTHUS	4 4 3.9 3.4- 4.5 SL	15 15 3.6 1.8- 4.9 SL	6.2
ACTHUS OCELLATUS	92 25 4.3 2.7- 6.7 SL	123 25 4.7 3.1- 6.7 SL	68.6
CYCLOPSETTA FIMBRIATA	2 2 4.1 4.0- 4.2 SL	2 2 5.5 4.2- 6.7 SL	1.3
SYACIUM PAPILLOSUM	94 25 3.8 2.5- 5.4 SL	106 25 3.5 2.6- 6.5 SL	63.5
SYMPHYRUS SP.	24 24 5.6 3.1-11.5 SL	97 93 5.7 3.2-14.2 SL	39.5
ADDITIONAL LARVAE CAUGHT	MURAENIDAE	MURAENIDAE	
	CYCLOTHONE SP.	CYCLOTHONE SP.	
	SYNOBRANCHIDAE	MAURICUS SP.	
	LOPHIIFORMES	SYNOBRANCHIDAE	
	OPHIOTRIDAE	PARALEPIDIDAE	
	CARANGIDAE	SUDIS SP.	
	HOLOCENTRIDAE	LOPHIIFORMES	
	CAPROIDAE	BREGMACOTIDAE	
	FISTULARIIDAE	OPHIOTRIDAE	
	SERRANIDAE	SERRANIDAE	
	APOGONIDAE	APOGONIDAE	
	CARANGIDAE	MALACANTHUS SP.	
	CORYPHAENIDAE	CARANGIDAE	
	SPARIDAE	CORYPHAENIDAE	
	POMACENTRIDAE	SPARIDAE	
	LABRIDAE OR SCARIDAE	POMACENTRIDAE	
	BLENNIIDAE	LABRIDAE OR SCARIDAE	
	CALLIONYMIDAE	MUGILIDAE	
	COBITIDAE	SPHYRAENIDAE	
	TRICHTURIDAE	CALLIONYMIDAE	
	STROMATEIDAE	Gobiidae	
	SCORPAENIDAE	ACANTHURIDAE	
	TRIGLIDAE	TRICHTURIDAE	
	CACTYOPTERUS VOLITANS	STROMATEIDAE	
	BALISTIDAE	SCORPAENIDAE	
	UNIDENTIFIED	TRIGLIDAE	
		CACTYOPTERUS VOLITANS	
		BALISTIDAE	
		TETRAODONTIDAE	
		UNIDENTIFIED	

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2
C66 5 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 100		
STA.	D M	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE		
SPECIES ANALYZED												
P 3 24 05		SAMPLING DEPTH 0-6M										
ANCHOA	HEPSETUS	3	3	16.6	14.6-18.6	TL				0.4		
MYCTOPHIDAE		6	6	4.0	3.3-4.3	SL				0.7		
ERRATODON	PFLUS SP.	9	9	4.3	3.4-5.6	SL				1.1		
PEMATOMUS	SALTATRIX	4	4	3.5	3.4-3.9	SL				0.5		
AUXIS	SP.	7	6	4.1	3.5-4.8	SL				0.8		
ETROPUS	MICROSTOMUS	3	3	2.5	2.2-2.7	SL				0.4		
SYACIUM	PAPILLOSUM	1								0.1		
ADDITIONAL LARVAE CAUGHT		CYCLOTHONE SP.										
		LOPHIIFORMES										
		SERRANIDAE										
		APOGONIDAE										
		CARANGIDAE										
		CORDYLAENIDAE										
		SPARIDAE										
		MUGILIDAE										
		SPHYRAENIDAE										
		CALLIONYMIDAE										
		GOBIIDAE										
		EMPHYIIDAE										
		SCORPAENIDAE										
		BALISTIDAE										
		UNIDENTIFIED										
.....												
P 4 24 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
OPHIOTHUS	GOMESI						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
LAMFANYCTUS	CLIPRINUS						1	1	7.4	SL	0.2	
NOTOLYCHNUS	VALDIVAE						1	1	5.8	SL	0.2	
CYNOSCION	SP.						1	1	2.9	SL	0.2	
PEPRILUS	TRIACANTHUS	3	3	4.4	3.7-5.1	SL	5	5	3.5	3.2-4.6	SL	1.7
RETHIS	OCELLATUS	1	1	3.6		SL	1	1	7.5	SL	0.5	
ETROPUS	MICROSTOMUS						3	3	2.5	3.1-5.4	SL	0.5
SYACIUM	PAPILLOSUM						1	1	6.1	SL	0.2	
SYMPHURUS	SP.						1	1	4.0	SL	0.2	
ADDITIONAL LARVAE CAUGHT		SYNDONTIDAE					OPHIOTHIDAE					
		LOPHIIFORMES					SYNDONTIDAE					
		OPHIIDAE					LOPHIIFORMES					
		SERRANIDAE					BREGMAGROTIDAE					
		CARANGIDAE					OPHIIDAE					
		SPARIDAE					SERRANIDAE					
		BLENNIIDAE					CARANGIDAE					
		GOBIIDAE					SPARIDAE					
		STROMATEIDAE					BLENNIIDAE					
		TRIGLIDAE					CALLIONYMIDAE					
		BALISTIDAE					GOBIIDAE					
		TETRAODONTIDAE					TRICHIURIDAE					
		UNIDENTIFIED					STROMATEIDAE					
							TRIGLIDAE					
							BALISTIDAE					
							TETRAODONTIDAE					
							UNIDENTIFIED					

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CRUISE DATE			***** LARVAE *****						***** LARVAE *****						NO. PER 10M	
STA.	DATE	SPECIES ANALYZED	NUMBER	MEAS.	MEAN	LENGTHS (MM)	NO.	NUMBER	MEAS.	MEAN	LENGTHS (MM)	NO.	EGGS	EGGS	EGGS	
P 5	24 05		TOTAL	DEPTH	0-15M			TOTAL	DEPTH	10-33M						
		ACHILIA EGMENTIS	1	1	77.5		TL								0.3	
		ANCHORA HEPSETUS						13	13	7.5	4.6-11.4	TL			4.3	
		MYCTOPHIDAE	1					3	3	3.9	3.7-4.3	SL			1.3	
		CERATOSCOPELUS MAHEFENSIS	2	2	6.4	5.3-7.5	SL	9	9	7.2	4.4-11.9	SL			3.6	
		CERATOSCOPELUS WAKINGI	5	5	6.5	5.5-7.5	SL	15	15	4.5	3.4-7.4	SL			6.5	
		OTAPHIUS SP.	6	6	5.6	4.1-8.0	SL	27	27	4.7	3.5-7.1	SL			10.8	
		HYGOPHUM TANNINGI	1	1	6.3		SL								0.3	
		LAMFANYCTUS ALATUS OR PHOTONOTUS						1	1	3.4		SL			0.3	
		LAMFADENA SP.						1	1	5.4		SL			0.3	
		MYCTOPHUM SP.						2	2	4.9	4.6-5.2	SL			0.7	
		HEMANTHIAS VIVANUS						2	2	4.1	3.6-4.6	SL			0.7	
		AULIS SP.	9	9	5.7	4.0-10.6	SL	11	11	4.7	3.8-6.0	SL			6.4	
		EUTYNNUS ALLETTENATUS	3	3	5.5	4.5-7.4	SL	2	2	5.1	3.8-6.4	SL			1.6	
		KATSUMONUS PELAMIS	7	7	6.6	6.2-7.1	SL	1	1	4.5		SL			2.4	
		SARIA SARCA					0						1		0.0	
		SCOPBEROMORUS CAVALIA	4	4	3.8	3.6-4.2	SL	11	11	3.9	3.4-4.8	SL			4.9	
		THUNNUS ALBACARES						1	1	4.1		SL			0.3	
		THUNNUS ALBACARES OR ALALUNGA	1	1	5.3		SL								0.3	
		THUNNUS OBESEUS OR ATLANTICUS	1	1	4.5		SL								0.3	
		PRICNOTUS CARLINUS	1	1	5.5		SL								0.3	
		RETHUS OCELLATUS	16	16	5.8	3.0-13.7	SL	6	6	5.6	4.4-7.6	SL			6.8	
		ETROPUS MICROSTOMUS	4	4	6.0	3.9-8.3	SL								1.3	
		SYACIUM PAPILLOSUM	10	10	4.3	2.6-6.9	SL	14	14	3.8	2.2-6.3	SL			7.7	
		SYMPHURUS SP.	4	4	3.8	3.3-4.7	SL	6	5	4.6	3.1-6.0	SL			3.2	
		ADDITIONAL LARVAE CAUGHT														
		MURAENIDAE														
		OPHIOTRICHAE														
		SYNODONTIDAE														
		LOPHIIFORMES														
		BREGMACETIDAE														
		OPHIOTRICHAE														
		HOLOCENTRIDAE														
		SERRANIDAE														
		PRIACANTHIDAE														
		APOGONIDAE														
		CARANGIDAE														
		CORYPHAENIDAE														
		CHAETODONTIDAE														
		POMACENTRIDAE														
		LABRIDAE OR SCARIDAE														
		BLENNIIDAE														
		CALLIONYMIDAE														
		Gobiidae														
		ACANTHURIDAE														
		CEMPYLIDAE														
		SCORPAENIDAE														
		TRIGLICAE														
		BALISTIDAE														
		UNIDENTIFIED														

TABLE 3. (continued)

CRUISE DATE 066 7 1966 STA. 04 SPECIES ANALYZED A 7 17 06	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	SAMPLING DEPTH	0-15M	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	SAMPLING DEPTH	1E-33M	NO. PER 10M ² LARVAE	EGGS
BENTHOSEMA GLACIAE	3	3 6.8 6.1- 7.6 SL				6	6 5.9 8.9-12.1 SL				2.0	
CERATOSCOPELUS MADRENSIS	1	1 11.4 SL				3	3 7.0 6.3- 7.4 SL				1.9	
HYGROMYX HYGROMYX	3	3 4.7 3.9- 5.2 TL				1	1 2.9 TL				0.3	
ENCHELYOPUS CIMBRIUS	5	5 2.9 2.0- 3.8 SL	0			9	8 2.8 2.2- 3.9 SL	1			4.5	0.3
MELANOGRAMMUS AEGEFINUS	1	1 1.4 NL	0			1	1 7.1 SL	0			0.3	0.0
URCHYICUS CHUSS	2	2 3.5 3.5- 3.6 SL	21			5	5 3.4 3.0- 4.1 SL	0			0.3	0.3
MERLUCCIIUS BILINEARIS	2	2 3.5 3.5- 3.6 SL	21			2	1 5.1 SL	0			2.3	7.0
SCOMBER SCOMBRUS	4	1 5.4 SL				13	2 6.2 5.2- 7.1 SL				5.5	
GLYPTOCEPHALUS CYNOGLOSSUS												
LIMANDA FERRUGINEA												
.....												
P 1 19 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
ENCHELYOPUS CIMBRIUS	243	28 2.5 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
URCHYICUS 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									114.5	
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	
SCOPHTHALMUS 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												
.....												
P 2 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENCHELYOPUS CIMBRIUS	39	37 2.6 1.5- 5.1 SL	79			4	4 2.9 2.1- 3.4 SL	2			12.6	25.5
GADUS MORHUA	2	2 9.0 8.5- 9.4 SL	1			1	1 4.6 SL	0			0.2	0.3
MERLUCCIIUS BILINEARIS	18	16 2.6 2.0- 5.3 NL	16					3			5.8	5.4
TAUTOGA ONITIS	52	42 2.7 1.9- 3.9 TL				2	1 2.6 TL				16.8	
TAUTOGLABRUS ADSPERSUS	1100	719 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	43.3
LIPARIS ATLANTICUS	4	3 4.2 3.4- 5.7 TL				10	8 3.5 3.0- 5.0 TL				2.8	
SCOPHTHALMUS 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												
.....												
P 3 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
ENCHELYOPUS CIMBRIUS	20	15 5.8 1.6- 21.7 SL	10			1	1 4.5 SL	0			6.7	3.3
GADUS MORHUA	7	7 6.1 3.4- 7.0 SL	0			1	1 7.2 SL	0			2.4	0.0
MERLUCCIIUS BILINEARIS	15	15 2.9 2.1- 4.4 NL	0			4	4 2.5 2.4- 2.8 NL	0			5.8	0.0
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				366.6	
SCOMBER SCOMBRUS	256	80 4.2 2.6- 8.2 SL	102			12	12 4.8 3.1- 6.9 SL	6			85.3	34.0
LIPARIS INQUILINUS	1	1 4.8 TL				10	7 2.8 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				165.0	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE												
.....												
P 4 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
ENCHELYOPUS CIMBRIUS	73	32 3.4 1.6- 5.9 SL	13			7	7 3.2 1.9- 4.6 SL	2			24.3	4.6
GADUS MORHUA	2	2 3.6 2.9- 4.2 SL	0					0			0.7	0.0
MERLUCCIIUS BILINEARIS	15	14 3.3 2.8- 4.1 NL	20			6	3 3.6 2.7- 5.0 NL	7			6.5	6.3
TAUTOGLABRUS ADSPERSUS	329	316 3.7 2.3- 5.2 TL				6	6 2.6 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	36.7
LIPARIS INQUILINUS	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												
.....												
P 5 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYOPUS CIMBRIUS	147	42 2.5 1.1- 4.6 SL	6			85	32 2.7 1.5- 27.5 SL	72			72.4	25.8
MELANOGRAMMUS AEGEFINUS			0			1	1 9.0 SL	0			0.3	0.0
URCHYICUS CHUSS	1	1 1.3 NL				1	1 1.4 NL				0.6	
MERLUCCIIUS BILINEARIS	120	116 3.3 2.4- 5.7 TL	1			62	56 3.3 2.4- 4.7 TL	64			56.7	21.6
TAUTOGLABRUS ADSPERSUS	63	60 3.5 2.4- 4.7 TL				127	122 3.7 1.5- 5.0 TL				61.2	
SCOMBER SCOMBRUS	331	72 3.3 2.3- 8.7 SL	110			121	43 4.4 2.6- 5.0 SL	137			139.6	76.7
LIPARIS INQUILINUS						1	1 11.0 TL				0.3	
SCOPHTHALMUS 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				57.4	
LIMANDA FERRUGINEA	440	50 5.9 3.3- 10.2 SL				612	25 5.3 3.8- 8.1 SL				336.0	

TABLE 3. (continued)

CRUISE DATE STA. NO. SPECIES ANALYZED P. 6 19 06	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER LARVAE	LOM EGGS
SAMPLING DEPTH 0-15M												
ENCYLIOPUS CIMBRIUS	319	40 3.3 1.5- 4.7 SL	ET			256	31 3.0 1.8- 4.7 SL	97			151.0	58.4
ENCYLIOPUS CHLUS	1	1 2.1 NL				1	1 1.4 NL				0.6	
MERLUCCIIUS BILINEARIS	24	24 3.5 2.7- 4.6 NL	0			60	60 3.7 2.9- 4.4 NL	3			27.2	1.0
TAUTOGOLABRUS AOSPERSUS	50	49 4.1 2.8- 5.5 TL				73	68 3.5 2.8- 5.2 TL				29.3	
SCOMBER SCOMBRUS	121	64 4.2 2.6- 8.2 SL	1			154	60 4.1 2.5- 8.3 SL	0			17.6	0.3
GLYPTOCEPHALUS CYNOGLOSSUS	63	63 7.4 3.4-10.4 SL				64	58 6.8 3.4- 9.7 SL				40.2	
LIMANDA FERRUGINEA	342	25 6.2 4.2- 8.5 SL				274	25 5.3 3.2- 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 4.4-11.1 SL					0.7	
CERATOSCOPELUS MAIERENSIS					3	3 5.8 4.8- 7.7 SL					1.0	
CERATOSCOPELUS WARMINGI			411								0.0	137.0
ENCYLIOPUS AMERICANUS	2	2 4.4 4.4- 4.5 TL			1	1 4.3 TL					0.9	
ENCYLIOPUS CIMBRIUS	269	40 3.1 1.9- 4.3 SL	12		291	36 3.0 1.7- 4.3 SL	10				177.7	6.5
MELANOGRAMMUS AEGLEFINUS	2	2 5.1 3.4- 6.5 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
TAUTOGOLABRUS AOSPERSUS	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												
ENCYLIOPUS AMERICANUS	9	5 5.5 4.3-10.5 TL									2.7	
ENCYLIOPUS 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
TAUTOGOLABRUS AOSPERSUS	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	
LIMANDA FERRUGINEA	2	1 12.6 SL									0.6	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
C 2 19 06												
SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-27M							
ENCYLIOPUS AMERICANUS	15	15 4.9 3.0-10.6 TL									4.9	
ENCYLIOPUS CIMBRIUS	15	15 8.0 3.0-16.7 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				0				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 UNIDENTIFIED												
.....												
C 3 19 06												
SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCYLIOPUS AMERICANUS	2	2 3.7 3.2- 4.3 TL									0.7	
ENCYLIOPUS CIMBRIUS	116	28 8.0 3.4-11.2 SL	0		25	22 6.1 3.1- 5.2 SL	0				43.1	0.0
GADUS MORHUA	1	1 2.3 TL	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				0.7	0.0
TAUTOGOLABRUS AOSPERSUS	13	13 4.3 3.5- 5.2 TL									4.3	
SCOMBER SCOMBRUS	195	151 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 8.5 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 10.8 7.6-13.7 SL					57.4	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
C 4 19 06												
SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
ENCYLIOPUS AMERICANUS	6	6 4.7 3.8- 6.6 TL									1.9	
ENCYLIOPUS CIMBRIUS	4	4 16.5 4.7-21.7 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			6	5 5.0 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	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
C 5 19 06												
SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
ENCYLIOPUS AMERICANUS	4	4 9.4 4.6-11.8 TL			1	1 11.0 TL					1.5	
ENCYLIOPUS 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)

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CRUISE DATE		***** LARVAE *****						***** LARVAE *****						2	
066 7 1966		NUMBER		LENGTHS (MM)		NO.		NUMBER		LENGTHS (MM)		NO.		PC. PER 10 ⁴	
STA.	D M	TOTAL MEAS.		MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS	
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		
LEPPIUS AMERICANUS		1	1	5.8		TL							0.3		
ENCYCLYOPUS CIMBRIUS		21	21	9.7	7.7-25.8	SL	0	36	36	5.0	2.6-12.6	SL	0	18.3	
GADUS MORHUA							0	2	2	10.3	9.2-11.3	SL	0	0.7	
MERLUCCIIUS BILINEARIS		1	1	5.2		NL	0	5	5	5.7	5.1- 6.3	NL	0	2.0	
TAUTOGALAPUS ADSPERSUS								1	1	5.0		TL		0.3	
SCOMBER SCOMBERUS		29	28	11.2	5.1-18.0	SL	0	3	3	6.2	4.2- 8.3	SL	0	9.7	
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		99	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	
ENCYCLYOPUS CIMBRIUS		16	16	7.0	2.2-23.3	SL	0	1	1	6.4		SL		5.3	
GADUS MORHUA		1	1	8.4		SL	0							0.3	
MERLUCCIIUS BILINEARIS		4	3	6.3	5.8- 6.9	NL	0							0.3	
SCOMBER SCOMBERUS		26	26	9.8	3.9-17.6	SL	0	2	2	10.8	5.2-16.5	SL	0	8.7	
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							
LEPPIUS AMERICANUS		1	1	6.1		TL		1	1	5.3		TL		0.6	
ENCYCLYOPUS CIMBRIUS							1	1	6.6		SL		1	0.3	
MERLUCCIIUS BILINEARIS		2	2	4.5	4.7- 5.1	NL	4						1	0.7	
SCOMBER SCOMBERUS		71	71	5.8	4.5-13.4	SL	0						0	23.7	
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													
LEPPIUS AMERICANUS		2	2	5.3	5.3- 5.3	TL								0.2	
ENCYCLYOPUS CIMBRIUS		15	14	3.1	1.5- 7.1	SL	0							1.8	
TAUTOGALAPUS 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							
.....															
D 2 27 06		SAMPLING DEPTH 0-6M													
LEPPIUS AMERICANUS		5	5	6.6	4.1-13.0	TL								0.6	
ENCYCLYOPUS CIMBRIUS		7	7	8.2	3.3-23.5	SL	0							0.8	
SCOMBER SCOMBERUS		2	2	9.7	8.4-11.1	SL	0							0.2	
LIMANDA FERRUGINEA		3	3	8.0	6.2-10.2	SL								0.4	
ADDITIONAL LARVAE CAUGHT								TETRAODONTIDAE							
.....															
D 3 27 06		SAMPLING DEPTH 0-15M													
LEPPIUS AMERICANUS		2	2	9.5	7.0-12.0	TL								0.6	
ENCYCLYOPUS CIMBRIUS		2	2	3.8	3.5- 4.0	SL	0							0.6	
SCOMBER SCOMBERUS		1	1	18.0		SL	0							0.3	
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 27 06		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M							
LEPPIUS AMERICANUS		4	4	14.5	12.6-18.3	TL		16	16	12.9	5.5-17.2	TL		3.8	
ENCYCLYOPUS CIMBRIUS		2	2	18.4	18.0-18.8	SL	0	29	29	9.3	3.0-30.5	SL	0	5.3	
SCOMBER SCOMBERUS		4	4	22.8	21.9-23.8	SL	0	1	1	21.2		SL	0	1.4	
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							
LEPPIUS AMERICANUS								2	2	11.0	11.0-11.0	TL		0.7	
ENCYCLYOPUS CIMBRIUS		3	3	17.7	16.7-18.9	SL	0	9	7	12.9	4.6-23.0	SL	0	3.9	
SCOMBER SCOMBERUS		30	30	17.9	15.4-21.4	SL	0						0	10.0	
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	

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[illegible]

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
026 7 1966	STA. 0 M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.			NO. PER 10 ²		
F 1	28 06		TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS	
			SAMPLING DEPTH	0-6M										
		BREVOORTIA TYRANNUS	11	11	9.5	7.8-14.4	TL					1.3		
		ANCHOA MITCHILLI	976	115	6.6	3.7-12.2	TL					118.3		
		CYNOSCION SP.	44	42	3.1	2.2-4.6	SL					5.3		
		MENTICARRHUS SP.	1	1	3.2		SL					0.1		
		PRICNOTUS CARLINIUS	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		
		CYNOSCION SP.	25	25	2.9	2.5-4.0	SL					3.0		
		MENTICARRHUS SP.	2	1	2.1		SL					0.2		
		TAUTOGA ONITIS	2	2	3.2	2.9-3.6	TL					0.2		
		TAUTOGLABRUS AOSPERSUS	3	3	3.1	2.9-3.5	TL					0.4		
		PRICNOTUS CARLINIUS	3	3	3.3	3.0-3.5	SL					0.4		
		HIPPUGLOSSINA OBLONGUS	1	1	3.2		SL					0.1		
		SCOPHTHALMUS AQUOSUS	1	1	3.4		SL					0.1		
		ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE											
			ATHERINIDAE											
			TETRAODONTIDAE											
			UNIDENTIFIED											
.....														
F 3	28 06		SAMPLING DEPTH	0-15M										
		ANCHOA HERSETUS	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		
		UROPHYCIS CHUSS	2	2	2.5	1.3-3.7	NL					0.6		
		CYNOSCION SP.	2	2	2.4	2.2-2.6	SL					0.6		
		TAUTOGA ONITIS	1	1	2.7		TL					0.3		
		PRICNOTUS CARLINIUS	6	6	2.6	2.1-3.1	SL					1.8		
		SCOPHTHALMUS AQUOSUS	11	10	3.2	2.2-5.8	SL					3.3		
		GLYPTOCEPHALLUS CYNOCLOSSUS	1	1	10.3		SL					0.3		
		ADDITIONAL LARVAE CAUGHT	TETRAODONTIDAE											
			UNIDENTIFIED											
.....														
F 4	28 06		SAMPLING DEPTH	0-15M										
		LECFIUS AMERICANUS	4	4	4.1	3.8-4.8	TL					1.2		
		ENCYCLYOPUS CIMBRIUS	1	1	42.4		SL			0		0.3	C.C	
		UROPHYCIS CHUSS	5	5	2.1	1.4-3.2	NL					1.5		
		TAUTOGA ONITIS	1	1	3.1		TL					0.3		
		TAUTOGLABRUS AOSPERSUS	5	5	4.1	3.1-5.4	TL					1.5		
		HIPPUGLOSSINA 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					
		ENCYCLYOPUS CIMBRIUS						1	1	32.0	SL	0	0.3	C.C
		TAUTOGLABRUS AOSPERSUS	2	2	3.6	3.5-3.8	TL					0.7		
		LIPARIS INQUILINUS						2	2	5.8	5.7-10.0	TL	0.7	
		GLYPTOCEPHALLUS CYNOCLOSSUS						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					
		MYLANOGRAMMUS AEGAEFINUS						1	1	22.8	SL	0	0.3	C.C
		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	
		CERATOSCOPULUS MADAGASCENSIS	2	2	6.3	5.7-7.0	SL					0.7		
		LOPHIUS AMERICANUS						1	1	10.3	TL		0.3	
		UROPHYCIS CHUSS	9	5	1.8	1.2-3.6	NL					3.0		
		TAUTOGLABRUS AOSPERSUS	1	1	7.0		TL					0.3		
		GLYPTOCEPHALLUS CYNOCLOSSUS						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	
.....														
F 1	28 06		SAMPLING DEPTH	0-3M										
		ANCHOA MITCHILLI	3	3	5.5	2.9-7.7	TL					0.2		
		CYNOSCION SP.	7	6	3.7	2.9-4.4	SL					0.4		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M				
			TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	EGGS	EGGS	EGGS		
C 2	28 06		SAMPLING DEPTH	C- 6M									
		TAUTOGA ONITIS	4	3	3.3	2.8-	3.8	TL			0.5		
		CITHARICHTHYS ARCIFRONS	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										
C 3	28 06		SAMPLING DEPTH	C- 6M									
		LEPHTIUS AMERICANUS	1	1	3.6			TL			0.1		
		TAUTOGA ONITIS	1	1	2.8			TL			0.1		
		ETROPLUS MICROSTOMUS	1	1	2.0			SL			0.1		
		SCORPHTHALMUS AQUOSUS	1	1	2.3			SL			0.1		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
C 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		
		LIMANDA FERRUGINEA	15	15	10.5	7.6-14.4		SL			4.5		
C 5	27 06		SAMPLING DEPTH	C-15M		SAMPLING DEPTH	18-33M						
		PENTHOSEMA GLACIAE	1	1	7.6			SL			1.3		
		LEPHTIUS AMERICANUS	5	4	22.9	13.9-30.0		TL			1.7		
		FAKELYDOPUS CINABRIUS	2	2	28.1	27.6-28.5		SL	0		1.3		
		GADUS MORHUA							0		0.3		
		SCOMBER SCOMBRUS	4	4	36.2	33.9-38.6		SL	0		1.3		
		GLYPTOCEPHALUS CYNOGLOSSUS	1	1	17.5			SL			0.3		
		LIMANDA FERRUGINEA	105	25	12.1	7.8-15.1		SL			51.2		
C 6	27 06		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M						
		PENTHOSEMA GLACIAE	13	13	5.5	4.9- 6.9		SL			4.3		
		CEPHALOSCYLLIUM MADAGASCARIENSE	3	3	7.6	5.4- 8.5		SL			1.0		
		LEPHTIUS AMERICANUS	3	3	8.0	4.4- 9.9		TL			1.0		
		SARCA SARCA							0		0.0		
		LIMANDA FERRUGINEA	8	8	10.1	7.7-13.2		SL			4.4		
H 1	27 06		SAMPLING DEPTH	0- 3M									
		ANCHORA MITCHILLI	1915	148	4.4	1.7- 6.9		TL			116.0		
		CYNOSCICUM 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		
		PEPRILUS TRIACANTHUS	1	1	12.3			SL			0.1		
		PRIONOTUS CARLINIUS	2	2	4.4	4.4- 4.4		SL			0.1		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
H 2	27 06		SAMPLING DEPTH	C- 6M									
		ANCHORA MITCHILLI	514	56	5.0	2.8- 7.1		TL			62.3		
		CENTROPOMISTES STRIATA	1	1	4.6			SL			0.1		
		CYNOSCICUM SP.	2	2	3.0	3.0- 3.0		SL			0.2		
		MENTICIRRHUS 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		
		PEPRILUS TRIACANTHUS	59	59	3.0	2.2- 8.5		SL			7.2		
		PRIONOTUS CARLINIUS	19	19	4.2	3.1- 6.1		SL			2.3		
		ETROPLUS 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	SYNGNATHIDAE URANOSCOPIDAE BLENNIIDAE STROMATEIDAE UNIDENTIFIED										
H 3	27 06		SAMPLING DEPTH	0- 6M									
		ANCHORA MITCHILLI	65	61	4.4	1.4- 6.3		TL			7.9		
		CYNOSCICUM SP.	1	1	3.2			SL			0.1		
		MENTICIRRHUS SP.	11	11	2.7	2.3- 3.1		SL			1.3		
		TAUTOGA ONITIS	1	1	5.0			TL			0.1		
		PRIONOTUS CARLINIUS	2	2	3.9	3.3- 4.5		SL			0.2		
		ETROPLUS 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)

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CRUISE DATE STA. NO. SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10 ^m	
	NUMBER	MEAS.	LENGTHS (MM)	RANGE		NUMBER	MEAS.	LENGTHS (MM)	RANGE		2 LARVAE	EGGS
H 4 27 06	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-24M					
UPOMPHYCIS CHLUS	2	1	3.1		NL						0.6	
MENTICIRRHUS 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	
ETREPIUS MICROSTOMIUS	3	3	3.1	2.5- 3.7	SL						1.0	
HIPPOGLOSSINA OBLIQUUS	1	1	3.4		SL						0.3	
LIMANDA FERRUGINEA						3	3	7.1	6.6- 7.5	SL	0.5	
ADDITIONAL LARVAE CAUGHT	STROMATEICAE UNIDENTIFIED											
H 5 27 06	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-33M					
LOPHIUS AMERICANUS	1	1	3.1		SL	1	1	31.5		TL	0.3	
PRIONOTUS CARLINIUS											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	C-15M				SAMPLING DEPTH	18-33M					
BENTHOSEMA GLACIAE F	1	1	4.5		TL	7	6	6.5	6.0- 7.4	SL	2.3	
LOPHIUS AMERICANUS											0.3	
EACHELYCOPUS CIMBRIUS					0	1	1	7.7		SL	0.3	C.C
MERLUCCIIUS BILINEARIS	1	1	6.3		NL						0.3	C.C
SCOMBER SCOMBRUS	1	1	15.5		SL						0.3	C.C
LIMANDA FERRUGINEA	10	10	8.0	4.4-10.2	SL						8.7	
ADDITIONAL LARVAE CAUGHT	MYCTOPHICAE UNIDENTIFIED					17	17	7.5	6.1-10.6	SL		
H 7 27 06	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
MYCTOPHICAE						3	3	6.1	5.5- 7.4	SL	1.0	
BENTHOSEMA GLACIAE	1	1	10.5		SL	3	3	6.3	7.8- 9.2	SL	1.3	
UPOMPHYCIS CHLUS	1	1	1.4		NL						0.3	
MERLUCCIIUS BILINEARIS					0						0.0	C.3
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
J 1 26 06	SAMPLING DEPTH	C- 6M										
ANCHOA MITCHILLI	247	57	4.9	2.8- 7.0	TL						29.9	
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE											
J 2 26 06	SAMPLING DEPTH	0- 6M										
ANCHOA MITCHILLI	1279	243	3.5	1.5- 6.8	TL						155.0	
CYNOSSION SP.	6	6	2.8	2.5- 3.1	SL						0.7	
PRIONOTUS CARLINIUS	4	4	2.9	2.1- 4.0	SL						0.5	
CITHARICHTHYS ARCTIFRONS	4	4	2.1	1.8- 2.2	SL						0.5	
ETREPIUS MICROSTOMIUS	1	1	2.7		SL						0.1	
HIPPOGLOSSINA OBLIQUUS	2	2	3.5	2.5- 4.4	SL						0.2	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
J 3 26 06	SAMPLING DEPTH	C- 6M										
ANCHOA MITCHILLI	122	30	3.2	1.5- 5.5	TL						14.8	
MENTICIRRHUS 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 OBLIQUUS	2	2	2.6	2.5- 2.6	SL						0.2	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
J 4 26 06	SAMPLING DEPTH	C- 6M										
ANCHOA MITCHILLI	57	53	4.1	1.6- 5.8	TL						6.9	
UPOMPHYCIS CHLUS	4	4	2.3	2.0- 2.6	NL						0.5	
MENTICIRRHUS 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	C.5
PEREPIUS TRIACANTHUS	6	6	3.0	2.1- 3.7	SL	4					0.7	
PRIONOTUS CARLINIUS	316	22	2.5	2.1- 2.9	SL						38.3	
ETREPIUS MICROSTOMIUS	41	39	3.1	2.2- 4.6	SL						5.0	
HIPPOGLOSSINA OBLIQUUS	35	33	3.2	2.1- 4.8	SL						4.2	
ADDITIONAL LARVAE CAUGHT	LRANOSCEICAE STROMATEICAE UNIDENTIFIED											
J 5 26 06	SAMPLING DEPTH	C-15M										
MENTICIRRHUS SP.	1	1	2.3		SL						0.3	
TAUTOGA ONITIS	3	3	3.1	2.4- 3.9	TL						0.9	
PEREPIUS TRIACANTHUS	5	5	7.6	2.1-26.4	SL						1.5	
ETREPIUS MICROSTOMIUS	5	4	3.8	3.4- 4.2	SL						1.5	
HIPPOGLOSSINA OBLIQUUS	1										0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2	
D66 7 1966	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.			
STA. 04	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	PO. PER 10M	EGGS
SPECIES ANALYZED	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
J 6 27 06												
ANCHOA MITCHILLI						1	1	4.7	TL		0.2	
PENTHOSEMA GLACIAE	7	7	6.6	6.1- 7.2	SL	3	3	7.5	6.1- 9.7	SL	2.7	
LOPHIUS AMERICANUS	1	1	10.0		TL						0.3	
ENCYLYOPUS CIMBRIUS					0	2	2	11.0	4.6-17.4	SL	0.3	C.C
UROPHYCIS CHUSS	5	4	2.9	2.5- 3.2	NL						1.6	
LIMANDA FERRUGINFA						4	4	11.7	9.1-14.2	SL	0.6	
.....												
J 7 27 06												
PENTHOSEMA GLACIAE	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
LOPHIUS AMERICANUS	6	6	6.7	6.4- 7.6	SL						2.0	
PRIONOTUS CAROLINUS	1	1	19.0		TL						0.3	
LIPARIS INQUILINUS	1	1	3.1		SL						0.3	
GLYPTOCEPHALUS CYNOCLOSSUS						1	1	10.8		TL	0.3	
LIMANDA FERRUCINF	3	2	12.1	8.7-15.5	SL						1.0	
	56	25	10.4	7.5-13.3	SL	9	9	9.9	8.2-12.1	SL	19.8	
.....												
K 1 26 06												
SARCA SARCA	SAMPLING DEPTH	0- 6M										
					16						0.0	1.9
.....												
K 2 26 06												
ANCHOA MITCHILLI	SAMPLING DEPTH	0-15M										
SARCA SARCA	29	29	3.3	1.5- 6.8	TL						8.8	
ETREPOS MICROSTOMUS	1	1	2.0		SL	8					0.0	2.4
HIPPOGLOSSINA OBLONGUS	1										0.3	
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE					UNIDENTIFIED					0.3	
.....												
K 3 26 06												
ANCHOA MITCHILLI	SAMPLING DEPTH	0-15M										
SARCA SARCA	14	11	5.6	2.5- 8.1	TL						4.2	
ETREPOS MICROSTOMUS	1	1	3.3		SL	0					0.3	0.0
HIPPOGLOSSINA OBLONGUS	1	1	2.3		SL						0.3	
ADDITIONAL LARVAE CAUGHT	2	1	2.6		SL						0.6	
.....												
K 4 26 06												
LOPHIUS AMERICANUS	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
UROPHYCIS CHUSS	2	2	4.3	4.3- 4.3	TL						0.6	
TAUTOGA ONITIS	1	1	1.9		NL						0.3	
PEPILUS TRIACANTHUS	5	5	4.1	3.6- 4.7	TL						1.6	
PRIONOTUS CAROLINUS	19	19	4.9	2.6-15.0	SL	4	4	11.6	5.8-17.5	SL	6.5	
ACTHUS OCELLATUS	3	3	3.4	2.8- 4.0	SL						1.0	
ETREPOS MICROSTOMUS						1	1	4.6		SL	0.2	
HIPPOGLOSSINA OBLONGUS	24	22	3.3	2.4- 4.3	SL						7.8	
GLYPTOCEPHALUS CYNOCLOSSUS	10	10	4.5	2.7- 6.9	SL	1					3.2	
LIMANDA FERRUGINF	1	1	10.2		SL						0.3	
ADDITIONAL LARVAE CAUGHT						1	1	14.6		SL	0.2	
.....												
K 5 25 06												
LOPHIUS AMERICANUS	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
ENCYLYOPUS CIMBRIUS	2	2	15.2	14.0-16.5	TL						0.6	
TAUTOGLABRUS ADSPERSUS					0	1	1	41.0		SL	0.2	0.0
SCOMBER SCOMBRUS	1	1	4.3		TL						0.3	
PEPILUS TRIACANTHUS	1	1	29.1		SL	0	2	2	27.0	25.7-28.3	SL	0.6
GLYPTOCEPHALUS CYNOCLOSSUS	3	3	6.9	5.8- 9.0	SL		1	1	4.4		1.1	C.C
LIMANDA FERRUCINF	1	1	11.0		SL		1	1	42.7		0.5	
	1	1	14.1		SL		1	1	10.0		0.5	
.....												
K 6 25 06												
PENTHOSEMA GLACIAE	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
LOPHIUS AMERICANUS	5	4	7.6	6.7- 8.2	SL		1	1	7.1		1.8	
ENCYLYOPUS CIMBRIUS	2	2	5.8	4.7- 6.9	TL		1	1	4.6		0.9	
UROPHYCIS CHLSS					0	1	1	4.9		SL	0.3	0.0
MERLUCCIIUS BILINEARIS	6	4	3.0	2.1- 3.9	NL						2.0	
TALOGOLAERUS ADSPERSUS	1	1	7.8		NL	0					0.3	C.C
LIMANDA FERRUGINF	1	1	6.2		TL						0.3	
ADDITIONAL LARVAE CAUGHT	20	20	10.3	8.5-13.6	SL		34	25	10.2	6.5-15.1	SL	17.3
.....												
K 7 25 06												
UROPHYCIS CHLSS	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
ADDITIONAL LARVAE CAUGHT	1	1	13.2		NL						0.3	
.....												
SERRANIOAE												

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
NO. 7 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	10M	
STA. 04	SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS
# 2	23 06	SAMPLING DEPTH	0-15M								
	ENCAULIS EURYSTOE	1	1	15.1	TL					0.3	
	MYCTOPHIDAE	1	1	3.7	SL					0.3	
	CYNESCION SP.	2	2	3.1	2.9- 3.4 SL					0.6	
	LARIMUS FASCIATUS	1	1	3.7	SL					0.3	
	MENTICIRRHUS SP.	5	5	3.4	2.4- 4.6 SL					1.5	
	PEPRILUS TRIACANTHUS	1	1	3.3	SL					0.3	
	SYMPHURUS SP.	1	1	2.8	SL					0.3	
	ADDITIONAL LARVAE CAUGHT	SYNOdontICAE									
		PARALEPICIICAE									
		OPHIOTICAE									
		STROMATEICAE									
		BALISTICAE									
		TETRAodontICAE									
.....											
# 3	23 06	SAMPLING DEPTH	0-15M								
	DETHICHTHUS GOMESI	3	3	28.8	24.5-31.5 TL					0.9	
	SARTINELLA ANCHOVIA	2	2	8.8	7.0-10.7 TL					0.6	
	ENCAULIS EURYSTOE	22	22	8.9	3.0-17.7 TL					6.7	
	MYCTOPHIDAE	2	1	4.6	SL					0.6	
	CERATOSCOPELUS MADRENSIS	12	12	5.4	3.5- 7.0 SL					3.6	
	CERATOSCOPELUS WARMINGI	1	1	7.6	SL					0.3	
	DIAPHUS SP.	1								0.3	
	MYCTOPHIUM AFFINE	3	3	5.4	4.0- 6.8 SL					0.9	
	HEMANTHIA S. VIANUS	2	2	3.4	3.0- 3.9 SL					0.6	
	AUXIS SP.	186	183	4.5	3.1-10.5 SL					6.4	
	FLITHYNNUS ALLETTERATUS	1	1	6.8	SL					0.3	
	THUNNUS ALBACARES	1	1	7.1	SL					0.3	
	THUNNUS OESUS OF ATLANTICUS	1	1	6.1	SL					0.3	
	PEPRILUS TRIACANTHUS	2	2	3.3	2.5- 4.1 SL					0.6	
	RTTHUS OCELLATUS	12	12	5.7	3.5- 7.4 SL					3.6	
	CYCLOPSETTA FIMBRIATA	1	1	3.8	SL					0.3	
	ETRCPUUS MICROSTOMUS	2	2	3.1	2.9- 3.3 SL					0.6	
	SYACTIUM PAPILLOSUM	15	15	4.3	2.1- 8.2 SL					4.5	
	SYMPHURUS SP.	3	3	4.6	3.0- 6.7 SL					0.9	
	ADDITIONAL LARVAE CAUGHT	MURAENICAE									
		CYCLOTHICAE SP.									
		SYNOdontICAE									
		PARALEPICIICAE									
		LOPHIICAE									
		SYNGNATHICAE									
		SERRANICAE									
		APOGONICAE									
		CARANGICAE									
		CORYPHAENICAE									
		SPARIDAE									
		LABRIDAE OR SCARIDAE									
		MUGILICAE									
		BLENNIICAE									
		GOBIIDAE									
		SCORPAENICAE									
		BALISTICAE									
		TETRAodontICAE									
		UNIDENTIFIED									

TABLE 3. (continued)

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CRUISE DATE D66 7 1966 STA. 04 SPECIES ANALYZED M 4 23 06	***** LARVAE *****					***** LARVAE *****					2 NO. PER 100 EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	
	TOTAL	MEAS.	MEAN	RANGE	MEAS.	TOTAL	MEAS.	MEAN	RANGE	MEAS.	
	SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	1E-33M			
MEGALOPS ATLANTICA						1	1	10.5		NL	0.3
ALBULA VILPES						2	1	20.0		NL	0.7
OPHICHTHUS GOMESI						2	2	21.2	18.0-24.7	TL	0.7
SARINELLA ANCHOVIA	1	1	10.6		TL						0.3
ENGRAULIS EURYSTOMUS	45	43	8.2	3.2-20.7	TL	14	14	5.8	2.6-15.1	TL	18.2
MYCTOPHIDAE	9	9	4.6	2.6-6.4	SL						3.0
BENTHOSOMA SUBORBITALE	1	1	4.8		SL	1	1	5.1		SL	0.6
CERATOSCOPULUS MAHERENSIS	3	3	7.4	6.6-8.3	SL	1	1	10.9		SL	1.2
CIAPHUS SP.	1	1	4.5		SL	4	4	5.6	3.9-7.5	SL	1.6
LAMPANYCTUS ALATUS OR PHOTONCTUS	1	1	5.4		SL	1	1	5.1		SL	0.6
LAMPANYCTUS CUPRINUS						1	1	6.2		SL	0.3
MYCTOPHUM SELENOPS	1	1	4.3		SL						0.3
HYPOPHYCIS CHLUS	1	1	2.4		NL						0.3
HEMANTHUS VIVANUS	1	1	4.1		SL	1	1	6.0		SL	0.6
LARIMUS FASCIATUS	1	1	3.9		SL						0.3
AUXIS SP.	143	130	5.2	3.4-12.6	SL	35	35	6.4	4.0-10.4	SL	54.6
THURNUS OPESUS OR ATLANTICUS	1	1	6.3		SL						0.3
THURNUS THYNNIS	1	1	9.3		SL						0.3
PEPILUS TRIACANTHUS	3	3	2.6	2.5-3.5	SL						1.0
BOTHUS OCELLATUS	41	25	6.4	3.5-10.2	SL	15	14	5.2	3.5-14.0	SL	17.3
ETREPS MICROSTOMUS	3	2	4.4	3.7-5.0	SL	2	2	3.8	3.7-3.9	SL	1.6
SYCTIUM PAPILLOSUM	48	47	5.4	2.8-11.1	SL	20	20	3.7	1.9-5.4	SL	21.1
SYMPHYRUS SP.	4	4	6.2	3.7-10.7	SL	4	4	5.5	3.3-7.7	SL	2.5
ADDITIONAL LARVAE CAUGHT											
					ANGUILLIFORMES					MURAENIDAE	
					CYCLOTHA SP.					OPHICHTHIDAE	
					SYNOODONTIDAE					CYCLOTHA SP.	
					PARALEPTIDAE					SYNOODONTIDAE	
					MYCTOPHIDAE					PARALEPTIDAE	
					BREGMACEROTIDAE					LOPHIIFORMES	
					OPHIIDAE					BREGMACEROTIDAE	
					FISTULARIIDAE					FISTULARIIDAE	
					SERRANIDAE					SERRANIDAE	
					APOGONIDAE					MALACANTHUS SP.	
					CARANGIDAE					LABRIDAE OR SCARIDAE	
					CORYPHAENIDAE					CALLIONYMIDAE	
					SPARIDAE					GOBIIDAE	
					POMACENTRIDAE					ISTIOPHORIDAE	
					LABRIDAE OR SCARIDAE					SCORPAENIDAE	
					MUGILIDAE					DACTYLOPTERUS VELITANS	
					BLENNIIDAE					BALISTIDAE	
					CALLIONYMIDAE					TETRAODONTIDAE	
					COBIIDAE					UNIDENTIFIED	
					STROMATEIDAE						
					SCORPAENIDAE						
					TRIGLIDAE						
					DACTYLOPTERUS VELITANS						
					BALISTIDAE						
					TETRAODONTIDAE						
					UNIDENTIFIED						

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DATE		***** LARVAE *****				***** LARVAE *****		***** LARVAE *****		***** LARVAE *****			
STA.	N M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.		
			TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 10M
N 5	23 06		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M				EGGS
		MEGALOPS ATLANTICA	2	2	10.4	9.0-11.8	NL						0.7
		OPHIOTHEUTIDAE	1	1	37.0		TL						0.3
		OPHIOTHEUTUS KENDALLI						1	1	18.0		TL	0.3
		CALIESCHELYS PERRYAE	1	1	58.0		TL						0.3
		MYRICHTHYS SP.						1	1	18.0		NL	0.3
		OPHIOTHEUTUS GOMESI	2	2	39.5	25.0-54.0	TL	3	3	30.3	20.7-44.8	TL	1.6
		ENGRAULIS EURYSTOMIE	134	23	7.7	2.0-13.7	TL	7	6	5.4	6.5-12.7	TL	44.7
		MYCTOPHIDAE	4	4	4.6	4.0- 5.0	SL	11	8	4.4	3.7- 5.5	SL	4.9
		CERATOSCOPELLUS MAHERENSIS	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
		HYPOMETHIAS 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	122	5.4	2.8- 9.7	SL	36	35	6.7	3.6-10.3	SL	69.9
		ELTHYNNUS ALLETTERATUS	2	2	6.8	5.4- 8.2	SL	1	1	6.4		SL	0.9
		KATSUONUS PELAMIS	5	5	5.9	5.1- 6.5	SL						1.7
		SCORPAENOCORUS CAVALLA	2	2	5.6	5.7- 6.1	SL						0.7
		THYNNUS THYNNUS	1	1	5.4		SL						0.3
		PEPEILUS TRIACANTHUS	12	11	4.6	2.2- 7.0	SL						4.0
		BOTHUS OCELLATUS	42	25	5.7	3.4- 9.4	SL	79	25	5.5	3.3-12.2	SL	38.9
		CYCLOPSETTA FIMBRIATA	5	5	6.6	3.0-11.0	SL						1.7
		ETIOPUS MICROSTOMUS	3	3	4.5	3.3- 5.7	SL	6	6	4.0	3.2- 5.5	SL	2.9
		MONOENESSILICAUDA	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	34.7
		SYMPTURUS SP.	23	19	5.4	3.3-10.7	SL	5	5	7.0	4.0- 5.7	SL	8.6
		ADDITIONAL LARVAE CAUGHT											
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TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
066 7 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	NO. PER 10M
STA. NO SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	LARVAE EGGS
P 1 24 06	SAMPLING DEPTH 0- 6M		
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		
SARCEVELLA 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
MENTICIPPUS SP.	8 6 2.7 1.9- 3.5 SL		1.0
PICNOTUS CAROLINUS	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	SYNODONTIDAE 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
PERCULUS 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 COBITIDAE BALISTIDAE UNIDENTIFIED		
.....			
P 4 24 06	SAMPLING DEPTH C-15M	SAMPLING DEPTH 18-24M	
ENGRAULIS EURYSTOIE	5 4 8.9 7.5-10.3 TL		1.6
PICNOTUS CAROLINUS	7 7 2.1 1.7- 2.7 SL	1 1 1.5 SL	2.3
PERCULUS MICROSTOMUS	2 2 2.9 2.9- 2.5 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	OPHIOTIDAE BALISTIDAE UNIDENTIFIED	
.....			
P 5 25 06	SAMPLING DEPTH C-15M	SAMPLING DEPTH 18-33M	
ENGRAULIS EURYSTOIE		2 2 6.3 6.1-10.5 TL	0.7
MYCTOPHIDAE	5 5 3.8 3.2- 4.2 SL	2 2 3.7 3.6- 3.9 SL	2.2
CERATOSCOPELUS MARFFENSIS	9 9 7.8 5.7- 11.4 SL	2 2 6.5 7.5- 9.6 SL	3.4
CERATOSCOPELUS WAKAMINGI	11 11 4.4 2.9- 5.9 SL	31 30 4.2 2.6- 7.7 SL	13.6
CIARHUS 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 NORILIS		2 2 5.5 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
KATSUMONIS PELAMIS		5 5 4.0 2.8- 5.9 SL	1.7
ACTHUS OCELLATUS	2 2 4.5 3.6- 5.4 SL	5 5 5.3 3.5- 6.7 SL	2.3
SYACTUM PAPILLOSUM		1 1 10.5 SL	0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. VINCIGUERRIA SP. STOMIATIDAE CAPROIDAE SERRANIDAE POMACENTRIDAE MUGILICAE BALISTIDAE TETRAODONTIDAE UNIDENTIFIED	CYCLOTHONE SP. STOMIATIDAE SYNODONTIDAE CHLOROPHTHALMICAE PARALEPIDIDAE CAPROIDAE SERRANIDAE APOGONIDAE CARANGIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE GEMPYIDAE SCORPAENIDAE TETRAODONTIDAE UNIDENTIFIED	

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CRUISE DATE		***** LARVAE *****						***** LARVAE *****						2		
STA.	D M	SPECIES ANALYZED	TOTAL MEAS.	MEAN DEPTH	RANGE	LENGTHS (MM)	NO. EGGS	TOTAL MEAS.	MEAN DEPTH	RANGE	LENGTHS (MM)	NO. EGGS	NO. PER 10M LARVAE	EGGS		
C 1	6 08		SAMPLING DEPTH 0-6M													
		AREVOORTIA TYRANNUS	3	3	8.6	8.1-9.1	TL						0.4			
		ENGRAULIS EURYSTOIE	223	29	5.2	2.8-6.5	TL						27.0			
		LOPHIUS AMERICANUS	1	1	3.4		TL						0.1			
		ENCHELYDOPUS CIMBRIUS	2	2	3.7	3.2-4.1	SL	0					0.2	0.0		
		UROPHYCIS CHLSS	19	16	1.6	1.3-2.0	NL						2.3			
		MERLUCCIIUS BILINEARIS	2	2	2.1	1.8-2.4	NL	0					0.2	0.0		
		POMATOMUS SALIATRIX	2	2	6.9	3.0-10.8	SL						0.2			
		TAUTOGLABRUS ADSPERSUS	71	65	3.4	2.1-7.4	TL						8.6			
		PEPILUS TRIACANTHUS	11	10	2.8	1.9-3.2	SL						1.3			
		PRIONOTUS CARLINIUS	2	2	4.3	3.9-4.7	SL						0.2			
		HIPPUGLOSSINA OBLINCUS	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														
.....																
C 2	7 08		SAMPLING DEPTH 0-15M													
		AREVOORTIA TYRANNUS	1	1	7.7		TL						0.3			
		ENGRAULIS EURYSTOIE	413	22	5.3	2.8-7.0	TL						125.1			
		LOPHIUS AMERICANUS	1	1	3.0		TL						0.3			
		ENCHELYDOPUS 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			
		TAUTOGLABRUS ADSPERSUS	45	45	4.1	2.3-8.9	TL						13.6			
		PEPILUS 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	7 08		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M							
		AREVOORTIA TYRANNUS	2	2	9.8	9.3-10.3	TL						0.6			
		ENGRAULIS EURYSTOIE	18	15	6.2	5.1-7.2	TL						5.8			
		ENCHELYDOPUS CIMBRIUS	10	9	4.3	2.5-7.7	SL	0	5	5	3.3	2.2-4.3	SL	0	0.0	
		UROPHYCIS CHLSS	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		
		POMATOMUS SALIATRIX	14	14	3.9	3.4-5.1	SL						4.5			
		TAUTOGLABRUS ADSPERSUS	21	21	4.2	3.1-8.3	TL						6.8			
		PEPILUS TRIACANTHUS	6	6	3.8	2.3-7.0	SL						1.9			
		ETCEPUS MICROSTOMUS	2	2	9.7	7.7-11.7	SL						0.6			
		HIPPUGLOSSINA OBLINCUS	9	9	5.8	2.4-5.2	SL		2	2	5.5	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	7 08		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
		ENGRAULIS EURYSTOIE	11	6	4.3	3.0-6.3	TL						3.7			
		ENCHELYDOPUS CIMBRIUS	5	5	4.2	2.6-5.9	SL	0					1.7	0.0		
		MERLUCCIIUS BILINEARIS	41	29	3.7	1.7-6.3	NL	4	1	1	4.7		NL	0	13.7	1.3
		POMATOMUS SALIATRIX	4	4	2.4	2.4-2.5	SL						1.3			
		TAUTOGLABRUS ADSPERSUS	32	30	3.5	2.3-10.2	TL		1	1	5.0		TL	0	10.7	
		SARCA SARCA						2					0.0	0.7		
		PEPILUS TRIACANTHUS	12	11	3.6	1.7-7.5	SL						4.0			
		CITHARICHTHYS ARCTIFRONS	5	5	3.2	1.7-8.0	SL						1.7			
		ETCEPUS MICROSTOMUS	1	1	4.7		SL						0.3			
		HIPPUGLOSSINA OBLINCUS	19	16	3.2	2.1-6.7	SL						6.3			
		LIMANDA FERRUGINEA						2	2	13.4	13.1-13.7	SL		0.7		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														
.....																
C 5	7 09		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
		UROPHYCIS CHLSS	1	1	1.2		NL						0.3			
		MERLUCCIIUS BILINEARIS						2	3	3	3.5	2.8-4.8	NL	0	1.0	0.7
		TAUTOGLABRUS ADSPERSUS	7	6	3.7	2.9-4.5	TL		3	3	4.6	4.3-5.0	TL		3.1	
		PEPILUS TRIACANTHUS	1	1	4.3		SL						0.3			
		PRIONOTUS CARLINIUS	2	2	3.4	3.2-3.6	SL						0.7			
		HIPPUGLOSSINA OBLINCUS	1	1	3.0		SL		2	2	9.0	8.3-5.7	SL		1.0	
		LIMANDA FERRUGINEA						1	1	7.5			SL		0.3	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							
.....																
C 6	7 09		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M							
		ENGRAULIS EURYSTOIE							1	1	7.0		TL		0.3	
		ENCHELYDOPUS CIMBRIUS						0	2	2	3.7	3.4-3.9	SL	0	0.7	0.0
		UROPHYCIS CHLSS	14	12	3.6	1.5-16.1	NL						4.7			
		MERLUCCIIUS BILINEARIS	1	1	3.2		NL	19					0	0.3	6.3	
		POMATOMUS SALIATRIX	1	1	3.0		SL						0.3			
		TAUTOGLABRUS 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	0.3	1.7	
		PEPILUS TRIACANTHUS	4	4	2.0	1.5-2.8	SL						1.3			
		CITHARICHTHYS ARCTIFRONS	1	1	2.5		SL						0.3			
		HIPPUGLOSSINA OBLINCUS	7	5	3.2	2.8-3.4	SL						27.3			
		LIMANDA FERRUGINEA						1	1	7.3			SL		0.3	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														

TABLE 3. (continued)

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CRUISE DATE D6610 1966 STA. N M SPECIES ANALYZED D 6 CE CR		***** LARVAE *****					***** LARVAE *****					2	
		NUMBER TOTAL MEAS. MEAN SAMPLING DEPTH	LENGTHS (MM) RANGE	MEAS.	EGGS	NO.	NUMBER TOTAL MEAS. MEAN SAMPLING DEPTH	LENGTHS (MM) RANGE	MEAS.	EGGS	NO.	ND. PER 10M L F V F E	
		0-15M					16-33M						
ENGRaulis EURYSTOE		7	7	6.7	5.8- 7.7	TL						2.3	
LCPHIUS AMERICANUS		3	3	5.4	4.8- 6.3	TL						1.0	
URPHYCIS 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	
PEMATOMUS SALTATRIX		77	77	3.3	2.2- 5.6	SL	2	2	4.3	4.3- 4.4	SL	25.7	
TAUTOGLABRUS ADSPERSUS		30	20	4.5	3.3- 9.0	TL	1	1	3.4			10.0	
ALXIS SP.		1	1	5.8		SL						0.3	
SARCA SARCA		12	12	4.7	3.1- 6.4	SL					0	4.0	
PEPILUS TRIACANTHUS		5	5	3.8	2.5- 6.2	SL						1.7	
PRIONOTUS CARLINIUS		2	2	5.3	4.9- 5.7	SL						0.7	
PRIONOTUS EVOLANS		1	1	6.7		SL	1	1	6.3			0.6	
CITHARICHTHYS ARCTIFRONS		5	5	5.9	2.6-10.1	SL	1	1	5.2			1.8	
HIPPOGLOSSINA ORLINCUS		10	10	5.1	3.2- 6.5	SL	3	2	5.5	4.5- 6.4	SL	4.0	
GLYPTOCEPHALUS CYNAGLOSSUS							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											
.....													
E 7 07 08		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
LCPHIUS AMERICANUS		5	5	6.2	4.4- 8.9	TL						1.7	
ENCALYPTUS CUMRIUS		1	1	2.9		SL					0	0.3	
URPHYCIS 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	6	6	12.2	6.4-17.6	NL	8.3	
PEMATOMUS SALTATRIX		114	51	4.1	2.8- 5.8	SL	4	4	3.7	3.3- 4.6	SL	28.0	
TAUTOGLABRUS ADSPERSUS		26	26	4.9	3.4- 9.0	TL						8.7	
SARCA SARCA		4	4	6.6	3.8-10.2	SL	1	1	4.1		0	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	
ETROPLUS MICROSTOMUS		1	1	3.2		SL	1					0.6	
HIPPOGLOSSINA ORLINCUS		6	6	4.9	3.1- 6.2	SL	1	1	3.7			2.1	
GLYPTOCEPHALUS CYNAGLOSSUS							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		STROMATEIDAE UNIDENTIFIED											
.....													
E 8 17 08		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
PISCODONTIUS CRUENTIFER		1	1	27.2		TL						0.3	
MACROPHIDAE							1	1	5.5			0.3	
CERATODONTIUS MADERENSIS		2	2	15.5	14.9-16.1	SL						0.7	
LCPHIUS AMERICANUS		1	1	13.5		TL	4	4	6.7	5.6- 8.4	TL	1.6	
ENCALYPTUS CUMRIUS							1	1	4.2		0	0.3	
URPHYCIS CHUSS		106	16	3.8	1.6- 6.1	NL	7	5	4.3	3.7- 4.9	NL	35.3	
MERLUCCIIUS BILINEARIS		1	1	3.6		NL	64	61	10.2	6.0-15.5	NL	21.6	
TAUTOGLABRUS ADSPERSUS		1	1	11.1		TL					0	0.3	
ALXIS SP.		51	45	4.6	2.6- 8.4	SL	2	2	6.2	6.1- 6.3	SL	17.0	
SARCA SARCA		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- 6.7	SL	138.8	
MACLENE SELLICARIA		1	1	11.8		SL						0.3	
HIPPOGLOSSINA ORLINCUS		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 CYNAGLOSSUS							21	21	11.2	11.3-31.5	SL	7.0	
LIMANDA FERRUGINEA							17	17	10.6	7.3-13.8	SL	5.7	
ADDITIONAL LARVAE CAUGHT		OPHIDIIDAE PISCODONTIUS CRUENTIFER OPHIDIIDAE UNIDENTIFIED					OPHIDIIDAE CARAPIDAE BLENNIIDAE						
.....													
E 1 08 08		SAMPLING DEPTH 0- 6M											
ANCHORA WITCHILLI		2	1	6.5		TL						0.2	
ADDITIONAL LARVAE CAUGHT		SYNGNATHIDAE											
.....													
E 2 08 09		SAMPLING DEPTH 0- 6M											
.....													
E 3 09 09		SAMPLING DEPTH 0- 6M											
ENGRaulis EURYSTOE		2	2	9.1	8.8- 9.5	TL						0.2	
PEMATOMUS SALTATRIX		1	1	3.1		SL						0.1	
PEPILUS TRIACANTHUS		1	1	4.7		SL						0.1	
.....													
E 4 09 09		SAMPLING DEPTH 0- 6M											
ENGRaulis EURYSTOE		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		***** LARVAE *****					***** LARVAE *****					NO. PER 10M ²	
06610 1966		NUMBER	LENGTHS (MM)		NO.	EGGS	NUMBER	LENGTHS (MM)		NO.	EGGS	LARVAE	
STA.	D M	SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	
E 5	09 03			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M				
		ENGRAULIS EURYSTOE		2	2	6.1	5.6- 6.6 TL	8	8	5.8	3.7- 7.0 TL	1.9	
		PEMATOMUS SAL TATRIK		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	2E	4.7	2.6- 8.0 SL	6.1	
		PRIONOTUS 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	
		HIPPFGLOSSINA 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 EURYSTOE						3	2	7.7	4.7-10.7 TL	1.0	
		LECEPIUS 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	5	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	C.C
		PEMATOMUS SAL TATRIK		59	59	4.3	2.9- 7.2 SL	12	12	5.5	4.0- 6.7 SL	21.7	
		TALTOGLABRUS ADSPERSUS		3	3	5.7	5.4- 6.0 TL	4	4	7.1	6.0- 6.2 TL	2.2	
		ALXIS SP.		20	20	4.4	3.4- 5.2 SL					6.7	
		SARCA SARDA		1	1	7.0	SL					0.3	0.0
		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	5.4- 5.4 SL	1.0	
		HIPPFGLOSSINA OBLONGUS		13	12	4.3	2.8- 6.1 SL	30	27	5.0	3.5- 8.5 SL	13.9	
		GLYPTOCEPHALUS CYNOCELOSSUS						1	1	15.4	SL	0.3	
		LIMANDA FERRUCINEA						5	5	8.1	6.5-10.0 SL	1.7	
		ADDITIONAL LARVAE CAUGHT OPHIDIIDAE UNIDENTIFIED						OPHIOTIDAE					
E 7	09 09			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-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	0.0
		PEMATOMUS SAL TATRIK		209	209	3.8	2.7- 5.4 SL	21	21	3.9	2.9- 5.5 SL	15.7	
		ALXIS 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	0	1	3.5	SL	0.6	0.0
		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- 5.8 SL	17.9	
		HIPPFGLOSSINA OBLONGUS		20	20	3.4	2.6- 4.5 SL	25	23	5.0	2.9- 6.7 SL	14.3	
		GLYPTOCEPHALUS CYNOCELOSSUS						3	3	17.7	14.7-20.4 SL	1.0	
		ADDITIONAL LARVAE CAUGHT						OPHIOTIDAE					
E 8	09 09			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-33M				
		LECEPIUS 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	
		ALXIS SP.		81	79	5.6	2.8-10.5 SL	2	2	5.3	4.1- 6.5 SL	27.0	
		SARCA SARDA		2	2	7.6	7.1- 8.1 SL	1	1	10.2	SL	0.9	0.3
		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	
		HIPPFGLOSSINA OBLONGUS		37	34	3.0	1.8- 4.4 SL	6	6	4.2	3.0- 7.6 SL	13.1	
		ADDITIONAL LARVAE CAUGHT OPHICHTHIDAE OPHIDIIDAE						OPHICHTHIDAE MYCTOPHIDAE UNIDENTIFIED					
F 1	10 08			SAMPLING DEPTH	0-6M								
		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								
		ANCHOA MITCHILLI		11	11	4.3	2.5-11.1 TL						1.3
		PEPRILUS TRIACANTHUS		1	1	2.2	SL						0.1
		HIPPFGLOSSINA OBLONGUS		1	1	1.9	SL						0.1
		ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE											
F 3	10 08			SAMPLING DEPTH	0-15M								
		PEPRILUS TRIACANTHUS		1	1	16.8	SL						0.3
		HIPPFGLOSSINA OBLONGUS		1	1	6.2	SL						0.3
		ADDITIONAL LARVAE CAUGHT SYNGNATHIDAE											
F 4	10 08			SAMPLING DEPTH	0-15M								
		ENGRAULIS EURYSTOE		4	2	7.0	3.5-10.5 TL						1.2
		TALTOGLABRUS ADSPERSUS		1	1	2.7	TL						0.3
		PEPRILUS TRIACANTHUS		9	9	10.0	1.8-16.4 SL						2.7
		PEPCNOTUS CARLINUS		3	3	2.3	2.0- 2.8 SL						0.9
		HIPPFGLOSSINA OBLONGUS		2	2	4.1	2.3- 5.8 SL						0.6

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****					
06610 1966		NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)			
STA.	O.M.	SPECIES ANALYZED		TOTAL MEAS.	MEAN RANGE MEAS.	NO. EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	NO. EGGS	NO. PER 10M LARVAE	2 PER 10M EGGS
F 5	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M			
		ENGRAULIS EURYSTOIE		14	12 7.8 4.0-10.3 TL		4	3 6.0 5.1-6.8 TL		4.9	
		UROPHYCIS CHLUS		4	3 5.7 3.7-7.3 NL		3	2 7.6 6.8-8.5 NL		1.7	
		CENTROPOMUS STRIATA		3	3 3.6 2.8-4.5 SL		1	1 3.7		1.1	
		PEMATOMUS SALIATRIX		37	37 4.3 2.4-5.5 SL		1	1 2.1		12.0	
		ALXIS SP.		2	2 4.1 2.8-5.5 SL					0.6	
		SARCA SARCA		2	2 4.8 4.7-5.0 SL	0				0.6	0.0
		PEPILUS TRIACANTHUS		22	22 3.8 2.0-7.0 SL		5	5 3.7 2.5-7.1 SL		7.6	
		PRICNOTUS CARLINUS		3	3 3.7 2.6-5.4 SL		2	2 2.9 2.8-2.9 SL		1.3	
		CITHARICHTHYS ARCTIFRONS		2	2 3.9 2.7-5.0 SL		5	5 5.2 3.1-7.8 SL		1.4	
		ETREPIUS MICROSTOMUS		1	1 4.5					0.3	
		HIPPOGLOSSINA OBLONGUS		8	8 5.1 2.9-8.4 SL		1	1 6.7		2.6	
		GLYPTOCEPHALUS CYNOGLOSSUS					1	1 14.2		0.2	
		ADDITIONAL LARVAE CAUGHT		STROMATEIDAE							
				UNIDENTIFIED							
.....											
F 6	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
		ENGRAULIS EURYSTOIE		112	29 6.4 2.4-10.5 TL		11	11 9.3 7.7-12.8 TL		37.3	
		UROPHYCIS CHLUS		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		2	2 7.0 6.5-7.2 NL	0	1.0	0.0
		PEMATOMUS SALIATRIX		240	233 4.5 3.6-8.1 SL	0	16	16 4.7 3.0-8.0 SL		60.0	
		TALITOGOLABRUS ADSPERSUS		7	7 5.4 4.2-7.2 TL		1	1 6.4		2.4	
		ALXIS SP.		28	28 4.9 3.7-6.4 SL		3	3 4.8 3.9-5.4 SL		9.4	
		PEPILUS 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	
		ETREPIUS MICROSTOMUS		1	1 8.7					0.3	
		HIPPOGLOSSINA OBLONGUS		14	13 4.0 3.4-5.2 SL		1	1 5.5		4.7	
		GLYPTOCEPHALUS CYNOGLOSSUS					1	1 17.9		0.3	
		LIMANDA FERRUGINEA					1	1 13.3		0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE							
.....											
F 7	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
		PRICNOTUS CARLINUS		1	1 26.3					0.3	
		UROPHYCIS CHLUS		1	1 12.1					0.3	
		MERLUCCIIUS BILINEARIS		18	17 4.8 1.6-14.1 NL		2	2 7.3 6.6-8.1 NL	0	6.1	0.0
		PEMATOMUS SALIATRIX		7	7 7.5 5.5-10.1 NL	0				2.3	
		TALITOGOLABRUS ADSPERSUS		11	11 6.1 4.0-9.3 SL		1	1 4.4		3.7	
		ALXIS SP.		5	4 8.3 6.2-10.0 TL					1.7	
		SARCA SARCA		105	57 3.9 2.5-8.5 SL		3	3 3.5 3.3-4.5 SL	0	35.0	0.0
		PEPILUS TRIACANTHUS		2	2 8.8 8.7-9.0 SL	0				0.7	
		CITHARICHTHYS ARCTIFRONS		72	10 2.9 1.8-4.5 SL		3	3 3.6 3.2-4.3 SL		24.0	
		HIPPOGLOSSINA OBLONGUS		271	25 4.8 2.9-9.6 SL		4	4 5.1 3.2-7.2 SL		50.3	
		GLYPTOCEPHALUS CYNOGLOSSUS		26	26 4.4 2.2-7.7 SL		2	2 3.2 2.8-3.5 SL		8.7	
		LIMANDA FERRUGINEA					4	4 26.2 9.2-26.1 SL		1.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE			6	6 10.5 9.0-12.7 SL		3.5	
				STROMATEIDAE							
.....											
C 1	21 OR			SAMPLING DEPTH	0-6M						
.....											
C 2	21 OR			SAMPLING DEPTH	0-6M						
		ENGRAULIS EURYSTOIE		9	6 2.8 2.1-4.2 TL					1.1	
		ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED							
.....											
G 3	21 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M			
		PEPILUS TRIACANTHUS					1	1 14.2		0.2	
.....											
G 4	21 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M			
		ENGRAULIS EURYSTOIE		88	72 6.2 2.0-16.9 TL					28.4	
		UROPHYCIS CHLUS		1	1 5.3					0.3	
		CENTROPOMUS STRIATA		14	11 4.7 3.6-7.1 NL		1	1 4.5		4.5	
		ALXIS SP.		17	17 3.6 2.3-5.1 SL					5.5	
		PEPILUS TRIACANTHUS		1	1 9.5					0.3	
		PRICNOTUS CARLINUS		53	51 3.8 2.1-8.5 SL		1	1 3.0		17.1	
		CITHARICHTHYS ARCTIFRONS		180	33 4.1 2.9-5.5 SL		5	5 4.9 3.3-5.9 SL		58.2	
		HIPPOGLOSSINA OBLONGUS		18	16 7.5 6.2-10.0 SL		107	25 8.6 6.3-11.5 SL		22.8	
		ETREPIUS MICROSTOMUS		28	25 6.4 2.8-11.6 SL		1	1 10.3		9.0	
		LIMANDA FERRUGINEA		8	8 5.4 3.1-6.7 SL		7	7 7.0 4.8-8.5 SL		3.6	
		SYMPHURUS SP.		1	1 9.1					0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE						1.0	
				URANOSCOPIDAE							

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2	
0661C 1966	NUMBER	LENGTHS (MM)	NUMBER	
STA. 04	TOTAL MEAS.	MEAN	TOTAL MEAS.	
H 5 22 08	SAMPLING DEPTH 0-15M	RANGE	SAMPLING DEPTH 18-24M	
PISODONOPHIS CUENTIFER	3	3 44.6 28.8-61.0 TL		1.0
ENGRAULIS EURYSTOIE	200	79 7.0 3.8-19.0 TL	6 6 8.2 5.3-12.5 TL	64.6
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	1 1 14.5 NL	0.5
CEATROPUS STRIATA	28	28 4.9 3.2- 7.3 SL	3 3 5.3 4.8- 6.1 SL	9.1
PEMATOMUS SAL TATPIX	17	17 10.3 7.7-13.2 SL		5.5
MENTICARRHUS SP.	1	1 3.0 SL		0.3
TAUTOGOLABRUS ADSPERSUS			1 1 12.6 TL	0.2
AUXIS SP.	12	12 7.7 3.4- 9.1 SL		3.9
PEPILUS 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	26 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	PISODONOPHIS CUENTIFER		OPHIOTIDAE	
	OPHIOTIDAE			
	URANOSCOPIDAE			
	STROMATEIDAE			
	UNIDENTIFIED			
.....				
H 6 21 09	SAMPLING DEPTH 0-15M		SAMPLING DEPTH 18-33M	
ENGRAULIS EURYSTOIE	56 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
TAUTOGOLABRUS ADSPERSUS	1 1 6.9 TL			0.3
AUXIS SP.	16 16 5.5 4.0-15.1 SL			5.3
PEPILUS 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 CYNODONTUS	1 1 20.1 SL			0.3
LIMNOA FERRUGINEA			4 4 10.7 9.7-11.9 SL	1.3
ADDITIONAL LARVAE CAUGHT	OPHIOTIDAE		OPHIOTIDAE	
	OPHIOTIDAE			
	URANOSCOPIDAE			
.....				
H 7 21 08	SAMPLING DEPTH 0-15M		SAMPLING DEPTH 18-33M	
ENGRAULIS EURYSTOIE	2 2 16.8 8.1-25.5 TL			0.7
LOPHIUS AMERICANUS			5 5 13.3 5.1-24.2 TL	1.7
UROPHYCIS SP.	12 11 2.4 2.0- 2.6 NL		1 1 2.5 NL	4.0
MERLUCCIIUS BILINEARIS			2 2 15.1 15.0-15.2 NL	0.7
AUXIS SP.	13 13 6.0 4.1-12.5 SL	0		4.3
PEPILUS 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
LIMNOA FERRUGINEA			2 2 10.0 9.9-10.0 SL	0.7
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED		OPHIOTIDAE	
.....				
J 1 22 08	SAMPLING DEPTH 0- 6M			
ANCHNA MITCHILLI	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	URANOSCOPIDAE			
.....				
J 3 22 08	SAMPLING DEPTH 0- 6M			
ETROPUS MICROSTOMUS	3 1 2.8 SL			0.4
SYMPHYRUS SP.	2 1 3.8 SL			0.2
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			
.....				
J 4 22 08	SAMPLING DEPTH 0- 6M			
ENGRAULIS EURYSTOIE	6 6 11.7 6.3-21.0 TL			0.7
MICROPOGON UNDULATUS	48 47 3.8 3.0- 6.0 SL			5.8
PEPILUS 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
SYMPHYRUS SP.	7 6 4.5 3.4- 5.4 SL			0.8
ADDITIONAL LARVAE CAUGHT	OPHIOTIDAE			
	SCIAENIDAE			
	TRIGLICAE			

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2
06610 1966	NUMBER	LENGTHS (MM)	NO.			NUMBER	LENGTHS (MM)	NO.		AD. PER 10M	
STA. D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	
J 5 22 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER	1	1	79.0	TL						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	
CENTROPOMISTIS STRIATA	8	8	6.5	4.2-10.7	SL					2.4	
MICROPOGON UNDULATUS	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	
ETROPLUS MICROSTOMUS	341	25	4.6	2.8-10.6	SL					133.3	
SYMPHURUS SP.	1	1	4.0		SL					0.3	
ADDITIONAL LARVAE CAUGHT CPHIDIIDAE											
STROMATEIDAE											
TETRAODONTIDAE											
.....											
J 6 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS 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
LCRPHIUS 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
CENTROPOMISTIS STRIATA	1	1	9.4		SL					0.3	
PCMATOMUS SALATRIX	1	1	7.6		SL					0.3	
AUXIS SP.	1	1	15.7		SL					0.3	
PEPRILUS TRIACANTHUS	9	9	4.4	2.6- 6.5	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
ETROPLUS 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 CYNODLOSSUS	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											
URANOSCOPIDAE											
.....											
J 7 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER	6	6	45.8	32.0-67.5	TL	1	1	49.5		TL	2.1
LCRPHIUS AMERICANUS						5	5	5.6	3.8- 7.3	TL	1.7
UROPHYCIS SP.						236	22	4.1	2.2- 5.6	NL	78.7
UROPHYCIS CHUSS						1	1	3.2		NL	0.3
MERLUCCIIUS BILINEARIS						1	1	5.7		NL	0.3
TAUTOGLOMERUS 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
ETROPLUS 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 CYNODLOSSUS						1	1	17.9		SL	0.3
LEIMANDA FERRUGINEA						2	2	11.6	10.4-12.7	SL	0.7
ADDITIONAL LARVAE CAUGHT PISCODONOPHIS CRUENTIFER											
UNIDENTIFIED											
.....											
K 1 24 08	SAMPLING DEPTH 0- 6M										
ANCHOA MOPSETUS	4	4	6.7	3.4- 8.7	TL						0.5
MICROPOGON UNDULATUS	6	6	4.3	3.2- 4.5	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 CPHIDIIDAE											
GOBIIDAE											
UNIDENTIFIED											
.....											
K 2 24 08	SAMPLING DEPTH 0- 6M										
ANCHOA MOPSETUS	7	7	10.7	3.6-21.0	TL						0.8
MICROPOGON UNDULATUS	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						0.5
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 CPHIDIIDAE											
URANOSCOPIDAE											
UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
D661C 1966	NUMBER	LENGTHS (MM)	NO.
STA. 04 SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS
15 25 09	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 12-33M	PC. PER 10M EGGS
ANCHNA HEPSETUS	8 7 10.5 6.8-13.0 TL		2.7
PEPILUS TRIACANTHUS	8 7 2.8 2.4- 3.1 SL		2.7
CITHARICHTHYS ARCTIFRONS	1 1 3.0 SL	1 1 2.1 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	
	OPHIIDIAE		
	SCIAENIDAE		
	LABRIDAE OR SCARIDAE		
	CALLIONYMIDAE		
	STROMATEIDAE		
	TELEOSTEIDAE		
.....			
M 1 25 09	SAMPLING DEPTH 0-6M		
ANCHNA HEPSETUS	57 52 7.8 3.4-15.0 TL		6.9
CENTROPOMUS STRIATA	1 1 3.3 SL		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
MICROPOMON UNULATUS	15 15 3.4 2.8- 4.1 SL		1.8
ALXIS SP.	1 1 6.5 SL		0.1
PEPILUS TRIACANTHUS	1 1 3.8 SL		0.1
ETROPUS MICROSTOMUS	2 2 4.2 3.1- 5.2 SL		0.2
SYMPHURUS PAPILLOSUM	1 1 4.9 SL		0.1
SYMPHURUS SP.	3 3 4.1 3.4- 4.9 SL		0.4
ADDITIONAL LARVAE CAUGHT	OPHIIDIAE		
	SCIAENIDAE		
	LABRIDAE OR SCARIDAE		
	SPHYRAENIDAE		
	LENCOSCEPHALIDAE		
	BLENNIIDAE		
	COBIIDAE		
	BALISTIDAE		
	UNIDENTIFIED		
.....			
M 2 25 09	SAMPLING DEPTH 0-6M		
FRAGAULIS EUPYSTOLE	60 57 7.6 2.6-13.7 TL		7.3
LARIMUS FASCIATUS	9 9 2.9 2.2- 3.7 SL		1.1
MICROPOMON UNULATUS	97 57 3.0 2.4- 3.8 SL		11.8
ALXIS SP.	2 2 8.3 8.2- 8.5 SL		0.2
EUTYNNUS ALLITERATUS	1 1 4.3 SL		0.1
ETROPUS MICROSTOMUS	9 9 6.0 4.3- 8.0 SL		1.1
SYMPHURUS 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	OPHIIDIAE		
	CYCLOTHOIDE SP.		
	SYNODONTIDAE		
	OPHIIDIAE		
	CARANGIDAE		
	LABRIDAE OR SCARIDAE		
	BLENNIIDAE		
	CALLIONYMIDAE		
	COBIIDAE		
	TRIGLICAE		
	BALISTIDAE		
	UNIDENTIFIED		

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[illegible]

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	2
0661C 1966	NUMBER LENGTHS (MM) NO.	
STA. 0 M SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	NO. PER 10M
N 5 25 08	SAMPLING DEPTH 0-15M	EGGS
ENGRAULIS EURYSTOLE	26B 71 4.7 2.5-10.3 TL	89.3
CERATOSCOPELUS WARMINGI		0.3
DIAPHUS SP.		0.7
LEMPANYCTUS ALATUS OR PHOTONOTUS		0.3
LEMPANYCTUS CLIPINUS		0.3
LEMPANYCTUS FASCIATUS	4 4 3.1 2.9- 3.5 SL	1.9
MENTICIRRHUS SP.	1 1 2.7	0.3
MICROPODON UNULATUS	1 1 3.4	0.6
AUXIS SP.	1 1 4.6	0.3
ELTHYNNUS ALLETTERATUS	2 2 6.1 4.9- 7.4 SL	1.3
PRIENOTUS CAROLINUS	2 2 5.5 5.7- 6.2 SL	2.6
RETHUS OCELLATUS	3 3 6.2 4.0- 8.0 SL	1.0
SYACIUM PAPILLOSUM	19 19 4.2 1.9-11.3 SL	6.3
SYMPHYRUS SP.	7 6 4.9 3.4- 6.2 SL	3.8
ADDITIONAL LARVAE CAUGHT	MURAENIDAE	
	SYNODONTIDAE	
	OPHIIDIIDAE	
	SERRANIDAE	
	CARANGIDAE	
	LABRIDAE OR SCARIDAE	
	CALLICNYPTIDAE	
	GOBIIDAE	
	SCORPAENIDAE	
	TRIGLIDAE	
	BALISTIDAE	
	UNIDENTIFIED	
	NETTASTOMATIDAE	
	SYNODONTIDAE	
	PARALEPIDIDAE	
	LOPHIIFORMES	
	BREGMACERCTIDAE	
	OPHIIDIIDAE	
	CARAPIDAE	
	SERRANIDAE	
	CARANGIDAE	
	LABRIDAE OR SCARIDAE	
	BLENNIIDAE	
	CALLICNYPTIDAE	
	GOBIIDAE	
	STROMATEIDAE	
	SCORPAENIDAE	
	TRIGLIDAE	
	BALISTIDAE	
	TETRAODONTIDAE	
	UNIDENTIFIED	
.....		
N I 25 08	SAMPLING DEPTH 0-15M	
LETHARCHUS VELIFER	1 1 40.5	0.3
SARCINELLA ANCHOVIA	5 5 16.3 13.0-19.0 TL	1.5
ENGRAULIS EURYSTOLE	465 145 6.4 2.8-18.8 TL	140.9
CENTROPOMUS STRIATA	1 1 4.5	0.3
LEMPANYCTUS 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
MICROPODON UNULATUS	5 5 3.3 3.2- 3.5 SL	1.5
AUXIS SP.	1 1 6.0	0.3
ELTHYNNUS ALLETTERATUS	13 13 5.5 4.7- 8.9 SL	3.9
PEFFILUS TRIACANTHUS	4 4 3.2 2.2- 4.5 SL	1.2
PRIENOTUS CAROLINUS	17 17 4.1 2.8- 6.1 SL	5.2
RETHUS OCELLATUS	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	23.6
SYMPHYRUS SP.	27 24 5.2 3.2-14.4 SL	8.2
ADDITIONAL LARVAE CAUGHT	MURAENIDAE	
	SYNODONTIDAE	
	LOPHIIFORMES	
	OPHIIDIIDAE	
	SERRANIDAE	
	GRAMMISTIDAE	
	CARANGIDAE	
	LABRIDAE OR SCARIDAE	
	URANOSCOPIDAE	
	CALLICNYPTIDAE	
	GOBIIDAE	
	TRICHIURIDAE	
	SCORPAENIDAE	
	TRIGLIDAE	
	BALISTIDAE	
	UNIDENTIFIED	

TABLE 3. (continued)

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CRUISE DATE
06610 1966
STA. 04 SPECIES ANALYZED
N 2 25 08

***** LARVAE *****
NUMBER LENGTHS (MM) NO.
TOTAL MEAS. MEAN RANGE MEAS. EGGS
SAMPLING DEPTH 0-15M
583 158 8.4 2.4-15.5 TL
2 2 7.3 6.1- 8.5 SL
4 3 3.8 3.7- 4.0 SL
1 1 4.8 SL
1 1 3.2 SL
1 1 7.1 SL
1 1 10.4 SL
6 6 7.1 6.0- 8.1 SL
2 2 3.8 3.7- 4.2 SL
4 4 6.7 3.6- 8.8 SL
13 13 6.7 3.3-10.8 SL
3 3 8.1 3.9-10.7 SL

***** LARVAE *****
NUMBER LENGTHS (MM) NO.
TOTAL MEAS. MEAN RANGE MEAS. EGGS

NO. PER 10M²
LARVAE EGGS

ANCHOVA MISPSETUS
SERPANTICULUS PUMTIC
LAPIMUS FASCIATUS
MENTICIRRHUS SP.
MICROPYGON UNDULATUS
ALYIS SP.
SCOMBEROMORUS CAVALLA
PENCOTUS CAROLINUS
ROTHUS OCELLATUS
ETROPUS MICROSTOMUS
SYACIUM PAPILLOSUM
SYMPHYRUS SP.

176.6
0.6
1.2
0.3
0.3
0.3
0.3
1.8
0.6
1.2
3.9
0.9

ADDITIONAL LARVAE CAUGHT
SYNODONTIDAE
LOPHIICHTHES
ORPHOTIDAE
SERRANIDAE
CARANGIDAE
SPARIDAE
LABRIDAE OR SCARIDAE
BLENNIIDAE
CALLIONYMIDAE
GOBIIDAE
TRICHLIRIDAE
SCORPAENIDAE
TRIGLIDAE
BALISTIDAE
UNIDENTIFIED

N 3 25 08

SAMPLING DEPTH 0-15M
2 2 41.9 35.0-48.8 TL
5 4 5.9 4.9- 8.8 SL
1 1 4.0 SL
20 20 3.6 2.3-11.5 SL
8 7 4.2 2.7- 6.7 SL

SAMPLING DEPTH 18-24M

1 1 72.5 TL
284 82 6.4 2.9-11.3 TL
3 3 3.5 2.9- 3.8 SL
1 1 4.8 SL
8 8 4.2 3.4- 5.1 SL
4 4 5.4 5.0-12.8 SL
5 5 4.2 3.0- 5.0 SL
11 9 5.0 3.2-10.7 SL

0.6
0.2
45.9
0.5
1.6
0.5
1.3
0.6
6.9
4.2

ADDITIONAL LARVAE CAUGHT
MURAENIDAE
OPHICHTHIDAE
SYNODONTIDAE
LOPHIICHTHES
OPHIDIIDAE
CARANGIDAE
ATHERINIDAE
SERRANIDAE
CARANGIDAE
LABRIDAE OR SCARIDAE
CALLIONYMIDAE
GOBIIDAE
SCORPAENIDAE
TRIGLIDAE
BALISTIDAE
TETRAODONTIDAE
UNIDENTIFIED

SYNODONTIDAE
BREGMACEROTIDAE
OPHIOTIDAE
SERRANIDAE
CARANGIDAE
LABRIDAE OR SCARIDAE
CALLIONYMIDAE
GOBIIDAE
TRIGLIDAE
BALISTIDAE
TETRAODONTIDAE

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****		
STA. NO. M. SPECIES ANALYZED	NUMBER TOTAL MEAS. MEAN SAMPLING DEPTH	LENGTHS (MM) RANGE MEAS. EGGS	NO. EGGS	NO. PER 10 ² LARVAE EGGS
N 4 26 CE				
OPHICHTHUS GOMESI	1 1 34.3	TL		0.3
SARCIINELLA ANCHOVIA	7 7 9.6	9.0-11.2 TL		2.3
ENGRAULIS EURYSTOIE	16 16 7.6	3.5-16.9 TL		16.8
BENTHOSOMA SP.			36 33 6.1	3.5-10.6 TL
OIAPIHUS SP.			1 1 3.9	SL
LAMPANOCYTUS ALATUS OR PHOTONCTUS			1 1 3.6	SL
OPHTHOPRISTIS STRIATA			1 1 6.9	SL
ALXIS SP.	1 1 5.7	SL	2 2 2.7	2.5-2.9 SL
EUTHYNNUS ALLETTENATUS	4 3 5.3	4.5-5.8 SL	2 2 4.3	4.1-4.5 SL
SCORPAENOCORUS CAVALLA	3 3 4.1	3.6-4.7 SL	9 9 4.3	3.9-4.9 SL
PEPRILUS TRIACANTHUS			4 4 4.3	3.7-5.0 SL
PELONOTUS CAROLINUS			2 2 2.7	2.5-3.0 SL
ACTHUS OCELLATUS	1 1 4.3	SL	16 16 3.1	2.1-4.5 SL
SYACIUM PAPILLOSUM	6 6 3.5	2.2-4.7 SL	3 3 5.6	5.5-17.0 SL
SYMPHURUS SP.	1 1 10.2	SL	2 2 4.6	4.4-4.7 SL
ADDITIONAL LARVAE CAUGHT	LOPHIICHTHUS		6 6 4.2	3.2-7.9 SL
	OPHIOTIDAE			
	SERRANIDAE			
	CARANGIDAE			
	LABRIDAE OR SCARIDAE			
	CALLIONYMIDAE			
	GOBIIDAE			
	SCORPAENIDAE			
	TRIGLIDAE			
	BALISTIDAE			
	UNIDENTIFIED			

TABLE 3. (continued)

CRUISE DATE			***** LARVAE *****					***** LARVAE *****					2	
D6610 1966			NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M ² LARVAE	EGGS
STA. 04 SPECIES ANALYZED			TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
P 2 26 CR			SAMPLING DEPTH 0-6M			SAMPLING DEPTH 0-6M			SAMPLING DEPTH 12-33M					
ENGRAULIS EURYSTOMIE			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	
FLUTHYNNUS ALLETTIEMATUS			2	2	5.8	5.7- 5.9	SL						0.2	
SYMPHURUS SP.			71	25	3.2	2.2- 6.2	SL						8.6	
ADDITIONAL LARVAE CAUGHT			CPHIDIIDAE SYNGNATHIDAE SERRANIDAE CARANGIDAE LABRIDAE OR SCARIDAE BLENNIIDAE GOBIIDAE TRIGLICAE BALISTIDAE UNIDENTIFIED											
.....														
P 3 26 08			SAMPLING DEPTH 0-6M											
SARDINELLA ANCHOVIA			4	4	6.9	4.4-11.5	TL						0.5	
ENGRAULIS EURYSTOMIE			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	
SYMPHURUS SP.			3	3	3.7	2.9- 4.5	SL						0.4	
ADDITIONAL LARVAE CAUGHT			MURAENIDAE CPHIDIIDAE LABRIDAE OR SCARIDAE GOBIIDAE TRIGLICAE BALISTIDAE UNIDENTIFIED											
.....														
P 4 26 08			SAMPLING DEPTH 0-15M											
OPHICHTHUS GOMSI			1	1	30.3		TL						0.3	
ENGRAULIS EURYSTOMIE			38	36	8.1	5.2-11.5	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	
FLUTHYNNUS ALLETTIEMATUS			7	7	5.6	4.8- 6.8	SL						2.1	
SCOMBEROMORUS CAVALLA			2	2	5.8	5.2- 6.5	SL						0.6	
BETHEUS OCELLATUS			1	1	4.2		SL						0.3	
SYACIUM PAPILLOSUM			8	8	3.9	2.8- 5.0	SL						2.4	
SYMPHURUS SP.			2	2	5.0	3.8- 6.2	SL						0.6	
ADDITIONAL LARVAE CAUGHT			CYCLOTHONE SP. SYNODONTIDAE OPHIDIIDAE CARANGIDAE SERRANIDAE GRAMMISTIDAE CARANGIDAE LABRIDAE OR SCARIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE TRICHTURIDAE STROMATEIDAE SCORPAENIDAE TRIGLICAE BALISTIDAE UNIDENTIFIED											
.....														
CRUISE DATE			***** LARVAE *****					***** LARVAE *****					2	
D6610 1966			NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M ² LARVAE	EGGS
STA. 04 SPECIES ANALYZED			TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
P 5 25 CR			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 12-33M					
ENGRAULIS EURYSTOMIE			9	4	8.7	6.6-10.7	TL						3.0	
CERATOSCOPELUS MADRENSIS			1	1	4.1		SL						0.3	
DIOGENICHTHYS ATLANTICUS								1	1	7.9		SL	0.3	
LOBIANCHIA SP.								1	1	5.8		SL	0.3	
HEMANTHIAS VIVANUS			1	1	3.7		SL						0.3	
AUXIS SP.			8	8	6.2	3.9-11.2	SL	5	5	6.6	4.5- 8.0	SL	4.1	
FLUTHYNNUS ALLETTIEMATUS			2	2	8.1	6.0-10.2	SL						0.7	
KATSUWONUS PELAMIS			2	2	5.7	4.9- 6.5	SL						0.7	
THUANUS ALBACARES OR ALALUNCA			2	2	5.4	4.6- 6.2	SL						0.7	
BETHEUS 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	
FISTEUS MICROSTOMUS								1	1	3.8		SL	0.3	
SYACIUM PAPILLOSUM			15	14	3.7	2.6- 4.9	SL	7	7	4.4	3.3- 5.7	SL	6.8	
SYMPHURUS SP.			2	2	4.2	4.2- 4.2	SL	1	1	3.0		SL	0.9	
ADDITIONAL LARVAE CAUGHT			SYNODONTIDAE PARALEPIDIDAE LOPHIIFORMES OPHIDIIDAE CARANGIDAE CAPROIDAE SERRANIDAE PRIACANTHIDAE APOGNIIDAE CARANGIDAE CORYPHAENIDAE SPARIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE GOBIIDAE SCORPAENIDAE UNIDENTIFIED					OPHICHTHIDAE CYCLOTHONE SP. SYNODONTIDAE PARALEPIDIDAE LOPHIIFORMES GRAMMISTIDAE APOGNIIDAE MALACANTHUS SF. CARANGIDAE PCMACENTRIDAE LABRIDAE OR SCARIDAE GOBIIDAE ACANTHURIDAE STROMATEIDAE SCORPAENIDAE TRIGLICAE UNIDENTIFIED						

CRUISE DATE		*****LARVAE*****						*****LARVAE*****							
STA.	D M	SPECIES ANALYZED	TOTAL MEAS.	MEAN DEPTH	RANGE	NO. EGGS		TOTAL MEAS.	MEAN DEPTH	RANGE	NO. EGGS		AD. PER 10M ²	% EGGS	
R 2	14 09				0-15M										
		EUGRAULIS EURYSTOLE	1	1	10.5	TL							0.3		
		UROPHYCIS CHUSS	21	7	5.1	2.9-6.8 NL							6.4		
		MERLUCCIIUS BILINEARIS	13	9	2.8	2.4-3.1 NL	0						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													
.....															
P 3	16 09				0-15M					18-33M					
		EUGRAULIS EURYSTOLE	11	11	12.1	10.5-14.3 TL				2	2	15.1	13.8-16.5 TL	4.0	
		ENCHELYPELUS CIMBRIUS					0			19	18	3.3	1.6-5.3 SL	6.3	
		UROPHYCIS SP.	1317	25	2.4	1.8-4.5 NL				303	21	2.7	1.8-4.8 NL	456.1	
		MERLUCCIIUS BILINEARIS	38	32	4.2	2.3-9.4 NL	26			567	558	5.6	2.4-17.3 NL	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						DPHIDIIDAE UNIDENTIFIED							
.....															
P 4	14 09				0-15M					18-33M					
		EUGRAULIS EURYSTOLE	5	5	9.3	7.9-10.7 TL				3	3	11.0	9.8-11.6 TL	2.5	
		ENCHELYPELUS CIMBRIUS					1			46	44	3.7	1.7-6.5 SL	15.3	
		UROPHYCIS SP.	4	3	2.0	1.4-2.4 NL				271	15	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	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 CYCLOSTOMUS								2	2	12.1	5.0-19.2 SL	0.7	
		LIMANDA FERRUGINEA								1	1	6.3	SL	0.3	
		ADDITIONAL LARVAE CAUGHT DPHIDIIDAE UNIDENTIFIED						DPHIDIIDAE UNIDENTIFIED							
.....															
B 5	14 09				0-15M					18-33M					
		PISCODONOPHIS CRUENTIFER	1	1	33.4	TL				1	1	41.5	TL	0.6	
		LOPHIUS AMERICANUS								4	4	6.5	4.5-8.9 TL	1.3	
		ENCHELYPELUS CIMBRIUS					0			155	41	2.5	1.5-4.9 SL	51.7	
		UROPHYCIS SP.	831	22	2.9	2.0-4.5 NL				966	30	2.6	1.2-4.2 NL	571.2	
		MERLUCCIIUS BILINEARIS	2	2	5.6	4.8-6.4 NL	22			103	96	4.1	2.0-11.0 NL	34.9	
		TAUTOGOLABRUS ADSPERSUS								1	1	2.4	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 DPHIDIIDAE UNIDENTIFIED						DPHIDIIDAE UNIDENTIFIED							
.....															
P 6	14 09				0-15M					18-33M					
		PISCODONOPHIS 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	
		ENCHELYPELUS CIMBRIUS	3	3	2.3	1.6-3.0 SL	2			24	23	3.6	2.5-6.1 SL	8.9	
		UROPHYCIS SP.	122	17	4.1	2.5-5.8 NL				136	32	3.6	2.2-5.2 NL	51.9	
		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	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 DPHIDIIDAE UNIDENTIFIED						PISCODONOPHIS CRUENTIFER DPHIDIIDAE							
.....															
B 7	14 09				0-15M					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	20.7	
		CITHARICHTHYS ARCTIFRONS	1	1	7.1	SL				11	11	8.0	5.5-15.2 SL	4.0	
		ADDITIONAL LARVAE CAUGHT DPHIDIIDAE UNIDENTIFIED						SYNDONOTIDAE DPHIDIIDAE							
.....															
C 1	17 09				0-9M										
		EUGRAULIS 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	
		PEPILUS MICROSTOMUS	16	16	2.6	1.9-3.5 SL								2.9	
		CITHARICHTHYS ARCTIFRONS	1	1	5.4	SL								0.2	
		ETREPOS 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)

CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2	
STA. 04	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER 10M ²	EGGS
SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	
C 1 17 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
DISCHONOPHIS CRUENTIFER	1	1	29.9	TL							0.3	
CERATOSCOPPELLA MAINEFENSIS	1	1	10.7	SL							0.3	
DIAPHUS SP.						4	4	8.9	7.9- 9.7	SL	1.3	
LEPHIUS 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	52.6	
MERLUCCIIUS BILINEARIS	2	2	8.2	7.9- 8.6	NL	2	2	9.7	9.4-10.0	NL	1.3	0.0
PERCILIUS 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 OBLIQUUS						4	4	5.6	4.2- 6.6	SL	1.3	
SCOPHTHALMUS AQUOSUS						1	1	2.5		SL	0.3	
ADDITIONAL LARVAE CAUGHT					OPHIOIDAE	CPHIDIIDAE						
					CALLIONYMIDAE	GOBIIDAE						
					UNIDENTIFIED							
.....												
C 1 19 09	SAMPLING DEPTH C- 6M											
ENGFAULIS EURYSTOE	62	13	4.5	1.7- 6.6	TL						7.5	
ECHINYOPLIS CIMBRIUS	1	1	1.7		SL	0					0.1	0.0
UROPHYCIS SP.	29	11	2.3	1.6- 3.7	NL						3.5	
CENTROPOMUS STRIATA	1	1	5.4		SL						0.1	
PERCILIUS TRIACANTHUS	3	3	4.0	3.0- 5.3	SL						0.4	
PERCNOTUS CARLINUS	111	21	2.8	2.2- 3.8	SL						13.5	
CITHARICHTHYS ARCTIFRONS	1	1	5.2		SL						0.1	
HIPPOGLOSSINA OBLIQUUS	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 19 09	SAMPLING DEPTH C- 6M											
ENGFAULIS EURYSTOE	47	47	4.3	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	0.0
PERCNOTUS CARLINUS	18	18	3.8	2.7- 5.0	SL						2.2	
CITHARICHTHYS ARCTIFRONS	1	1	5.1		SL						0.1	
HIPPOGLOSSINA OBLIQUUS	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 19 09	SAMPLING DEPTH C-15M											
ENGFAULIS EURYSTOE	10	9	4.9	2.2- 7.2	TL						3.0	
UROPHYCIS SP.	137	22	2.0	1.2- 4.0	NL						41.5	
MERLUCCIIUS BILINEARIS	7	5	2.8	2.2- 4.0	NL	0					2.1	0.0
PERCNOTUS CARLINUS	1	1	4.0		SL						0.3	
PERCILIUS TRIACANTHUS	2	2	3.7	3.6- 3.9	SL						0.6	
PERCNOTUS CARLINUS	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	0.0
HIPPOGLOSSINA OBLIQUUS	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					SYNGNATHIDAE							
					STROMATEIDAE							
					UNIDENTIFIED							
.....												
C 4 19 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENGFAULIS EURYSTOE	30	25	6.2	2.9- 22.5	TL	1	1	12.1		TL	9.7	
ECHINYOPLIS CIMBRIUS	2	2	2.3	2.2- 2.3	SL	0	1	3.3		SL	0.8	0.0
UROPHYCIS SP.	99	23	3.3	2.1- 6.0	NL		32	18	2.3	1.5- 3.2	NL	25.6
MERLUCCIIUS BILINEARIS	12	11	3.4	2.6- 4.2	NL	0	11	11	2.8	2.2- 4.2	NL	5.5
PERCILIUS TRIACANTHUS	6	6	5.0	3.4- 11.3	SL		4	4	3.2	2.1- 3.9	SL	2.5
PERCNOTUS CARLINUS	17	17	2.9	1.9- 4.1	SL		4	4	3.0	2.5- 4.0	SL	5.9
CITHARICHTHYS ARCTIFRONS	15	13	3.9	3.1- 4.8	SL		11	8	3.2	3.2- 5.9	SL	6.4
PARALICHTHYS CENTATUS	1	1	3.4		SL	0	2	2	3.2	2.9- 3.6	SL	0.6
HIPPOGLOSSINA OBLIQUUS	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		***** LARVAE *****					***** LARVAE *****					2	
06611 1966		NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.		NO. PER 10M	EGGS
STA. 04 SPECIES ANALYZED		TOTAL MEAS.	RANGE	MEAS.	EGGS		TOTAL MEAS.	RANGE	MEAS.	EGGS		LARVAE	
C 9 1R 09		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
ENGRAULIS EURYSTOIE		14	14	8.2	5.7-16.3 TL							4.7	
ENCHELIOPOUS 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	
MERLUCCIIUS BILINEARIS		25	22	3.8	2.6- 5.9 NL	0	136	130	4.9	2.6-11.2 NL	0	52.8	C.C
PEMATOMUS SALTATRIX		1	1	6.7	SL							0.3	
TAUTOGLABRUS AOSPERSUS		2	2	7.2	5.9- 8.5 TL		4	4	5.0	8.5- 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	
POMINOTUS CARLINUS		28	28	4.1	2.5- 7.5 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	
ETROPUS MICROSTOMUS		9	8	6.2	4.6- 5.7 SL		2	2	6.4	5.6- 7.1 SL		3.4	
PARALICHTHYS CENTATIS		6	6	4.3	3.2- 5.1 SL	0					0	2.0	0.0
HIPPOGLOSSINA 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										
.....													
D 6 1R 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
PISCODONOPHIS CRUENTIFER		1	1	53.4	TL							0.3	
ENGRAULIS EURYSTOIE		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	
ENCHELIOPOUS 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	
MERLUCCIIUS BILINEARIS		22	22	6.0	4.1- 8.8 NL	0	372	363	5.5	3.1-12.2 NL	0	130.6	C.C
PEPRILUS TRIACANTHUS		5	5	2.9	2.8- 3.0 SL		2	2	2.5	2.5- 3.3 SL		2.2	
CITHARICHTHYS ARCTIFRONS		151	25	5.9	4.2- 9.4 SL		96	25	6.6	3.2-11.5 SL		77.3	
HIPPOGLOSSINA OBLONGUS		18	18	4.6	3.1- 6.8 SL		11	11	5.3	4.4- 5.8 SL		9.1	
GLYPHOCEPHALUS CYNOGLOSSUS							1	1	22.1	SL		0.3	
ADDITIONAL LARVAE CAUGHT			OPHIIDIIDAE				OPHICHTHIDAE						
			UNIDENTIFIED				OPHIIDIIDAE						
							LABRIDAE OR SCARIDAE						
.....													
D 7 1R 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENGRAULIS EURYSTOIE		1	1	19.6	TL							0.3	
LOPHIUS AMERICANUS							5	5	6.7	4.6- 8.1 TL		1.7	
ENCHELIOPOUS 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		14.7	
MERLUCCIIUS 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	
HIPPOGLOSSINA OBLONGUS		4	3	3.5	2.9- 4.5 SL		16	16	5.3	2.9- 6.3 SL		6.5	
GLYPHOCEPHALUS CYNOGLOSSUS							1	1	15.4	SL		0.3	
ADDITIONAL LARVAE CAUGHT			OPHIIDIIDAE				OPHIIDIIDAE						
			UNIDENTIFIED										
.....													
D 8 1R 09		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GERATOSCOPELUS MADEFENSIS		2	2	8.5	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	
ENCHELIOPOUS CIMBRIUS						0	8	8	3.6	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	
MERLUCCIIUS 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	
HIPPOGLOSSINA 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			OPHIIDIIDAE				PARALEPIDIDAE						
			Gobiidae				OPHIIDIIDAE						
			TETRAODONTIDAE				Gobiidae						

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[illegible]

TABLE 3. (continued)

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CRUISE DATE STA. NM	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10M LARVAE	2 10M EGGS
		NUMBER	LENGTHS (MM)	MEAN	RANGE		NUMBER	LENGTHS (MM)	MEAN	RANGE			
E 4	11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
	BREVORTIA 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	10.0
	PRIONOTUS CARLINUS	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	36.1
	HIPPOGLOSSINA OBLINUS	3	2	3.1	3.0-3.1	SL						0.9	
	SCOPHTHALMUS AQUOSUS	26	8	4.4	2.8-6.3	SL						7.9	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE UNIDENTIFIED											
E 5	11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-24M						
	BREVORTIA TYRANNUS	476	111	7.2	3.7-12.5	TL						237.1	
	ENGRAULIS EURYSTOLE	1	1	13.1		TL						0.3	
	ENCHELYOPUS CIMBRIUS	1	1	4.3		SL						0.3	0.0
	UROPHYCIS SP.	437	22	3.6	1.6-8.3	NL	0	287	33	4.1	1.7-6.1	NL	100.6
	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	0.5
	PEPRILUS TRIACANTHUS	7	7	3.8	2.5-5.5	SL		8	8	6.0	4.6-7.6	SL	3.5
	PRIONOTUS CARLINUS	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	3.3-10.7	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	35	38	4.0	3.0-6.0	SL	18.9
	HIPPOGLOSSINA OBLINUS	55	52	4.0	2.6-5.4	SL		11	11	3.8	2.8-5.2	SL	18.7
	SCOPHTHALMUS AQUOSUS	140	50	3.7	2.4-4.5	SL		218	50	3.7	2.8-6.2	SL	78.2
	ADDITIONAL LARVAE CAUGHT	SERRANIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
F 6	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	BREVORTIA TYRANNUS	66	36	10.4	7.7-13.0	TL		5	5	5.6	4.9-12.2	TL	22.8
	ENGRAULIS EURYSTOLE							1	1	16.6		TL	0.3
	ENCHELYOPUS CIMBRIUS	1	1	4.1		SL	0					0.3	0.0
	UROPHYCIS SP.	161	29	4.5	2.9-12.4	NL		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 CARLINUS	62	22	3.9	3.0-5.0	SL		1	1	4.1		SL	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 OBLINUS	9	5	4.2	2.5-5.6	SL		2	1	6.4		SL	3.4
	SCOPHTHALMUS 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						OPHIIDAE UNIDENTIFIED					
E 7	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
	BREVORTIA TYRANNUS							4	4	10.3	10.0-10.5	TL	1.3
	ENCHELYOPUS CIMBRIUS						0	1	1	2.5		SL	0.3
	UROPHYCIS SP.	43	16	3.8	1.8-6.0	NL		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		SL	0.3
	PARALICHTHYS DENTATUS						0	1	1	6.0		SL	0.3
	HIPPOGLOSSINA OBLINUS	1	1	6.3		SL		8	7	6.3	4.7-8.1	SL	3.0
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
E 8	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	UROPHYCIS SP.	149	29	4.0	2.1-8.7	NL		21	9	3.2	1.7-6.5	NL	51.7
	MERLUCCIIUS BILINEARIS	5	4	3.5	2.8-4.4	NL	0	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 OBLINUS	1	1	6.7		SL		3	2	4.4	3.6-5.2	SL	1.3
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED											
F 1	05 10	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHELLI	7	7	16.5	11.3-15.5	TL						0.8	
	UROPHYCIS SP.	2	2	2.6	1.7-3.5	NL						0.2	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE COBIIDAE UNIDENTIFIED											
F 2	05 10	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHELLI	1	1	11.2		TL						0.1	
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED											

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					Z	
06612	1966	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	PER 10M	PER 10M	PER 10M	PER 10M	PER 10M	
STA.	04	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS	
G 3	C3 10	SAMPLING DEPTH	0-15M										
BREVORTIA TYRANNUS		1	11.6	TL							0.3		
HEPHECYCIS SP.		8	2.4	1.7- 3.0 NL							2.4		
PRIONOTUS CARLINUS		28	3.4	2.3- 5.9 SL							8.5		
ETROPUS MICROSTOMUS		1	6.3	SL							0.3		
PARALICHTHYS DENTATUS					24						0.0	7.3	
HIPPUGLOSSINA OBLONGUS		2	3.0	SL							0.6		
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													
.....													
G 4	C4 10	SAMPLING DEPTH	0-15M										
BREVORTIA 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		
LEPHTUS 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	
CENTROPRISTIS STRIATA		1	1	6.3	SL						0.3		
PEPRILUS TRIACANTHUS		1	1	6.2	SL						0.3		
PRIONOTUS 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	18-33M						
BREVORTIA 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		
LEPHTUS AMERICANUS		1	1	4.9	TL						0.3		
HEPHECYCIS SP.						0	1	4.2	SL	0	0.3	0.0	
MERLUCCIIUS BILINEARIS		209	26	3.4	2.3- 5.5 NL	23	18	3.1	1.7- 4.4 NL		10.4		
CENTROPRISTIS STRIATA						0	2	4.6	3.5- 5.8 NL	0	0.7	0.0	
PEPRILUS TRIACANTHUS		4	4	5.8	5.5- 6.1 SL						1.3		
PRIONOTUS CARLINUS		4	4	5.4	5.2- 5.6 SL						1.3		
ETROPUS MICROSTOMUS		809	25	3.6	2.3- 5.5 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	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 SERRANIDAE													
UNIDENTIFIED													
.....													
G 6	C4 10	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
BREVORTIA 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		
CERATOSCOPUS MAHERENSIS		2	2	8.0	7.5- 8.6 SL	2	2	10.0	9.5-10.5 SL		1.3		
LEPHTUS AMERICANUS						1	1	10.6	TL		0.3		
UROPHYCIS SP.		625	27	3.5	2.2- 8.5 NL	97	13	6.1	2.9- 8.0 NL		219.8		
MERLUCCIIUS BILINEARIS						0	1	7.4	NL	1	0.3	0.3	
PEPRILUS TRIACANTHUS						1	1	31.0	SL		0.3		
PRIONOTUS 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- 5.6 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 CYCLOTHOECIDAE													
UNIDENTIFIED													
.....													
H 1	C3 10	SAMPLING DEPTH	0- 6M										
PRIONOTUS 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		
PRIONOTUS 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										
PRIONOTUS CARLINUS		7	7	3.6	1.9- 4.8 SL						2.1		
ETROPUS MICROSTOMUS		16	16	4.2	2.0- 6.2 SL						4.8		
PARALICHTHYS DENTATUS						25					0.0	7.6	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													
UNIDENTIFIED													

TABLE 3. (continued)

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***** LARVAE *****		***** LARVAE *****							
CRUISE DATE	NO.	LENGTHS (MM)	NO.	NO.	LENGTHS (MM)	NO.	NO.	PER 10M	
STA. D.M.	SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LA FVAE	EGGS
F 4 C3 10		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	
PRIONOTUS CARLINUS	38	15	4.2	2.8-5.2 SL				11.5	
ETREPOS MICROSTOMUS	13	13	5.0	3.7-8.0 SL				3.9	
PARALICHTHYS DENTATUS					45			0.0	13.6
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE								
	SERRANIIDAE								
	UNIDENTIFIED								
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	2.1	2.0-4.5 NL	19.8
PERILUCCIUS TRIACANTHUS					1	1	7.0	SL	0.3
PRIONOTUS CARLINUS	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
ETREPOS 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
HIPPOGLOSSINA OBLONGUS	1	1	7.2	SL	1	1	4.2	SL	0.6
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			5	OPHIIDIIDAE			0	1.7
	UNIDENTIFIED								
H 6 C3 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENGRaulis EURYSTOE	2	2	8.6	7.9-9.3 SL	4	4	18.7	15.6-21.0 TL	1.3
CERATOSCOPELUS MADERENSIS	232	34	4.9	2.4-8.3 NL	8	8	9.6	7.2-11.9 SL	3.3
UROPHYCIS SP.					75	15	7.7	2.2-10.3 NL	54.6
MERLUCCIIUS BILINEARIS					1	1	15.0	NL	0.3
PRIONOTUS CARLINUS	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
ETREPOS 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			2	OPHIIDIIDAE			0	0.7
	OPHIIDIIDAE				Gobiidae				
	UNIDENTIFIED								
H 7 C3 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENGRaulis EURYSTOE	5	5	17.7	11.2-22.6 TL	1	1	25.5	TL	1.8
CERATOSCOPELUS MADERENSIS	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	12.7
CITHARICHTHYS ARCTIFRONS	15	14	6.3	3.2-12.5 SL					5.0
HIPPOGLOSSINA OBLONGUS	7	7	3.3	2.7-4.5 SL					2.3
ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES								
	OPHIIDIIDAE								
	UNIDENTIFIED								
J 1 C1 10		SAMPLING DEPTH 0-6M							
ADDITIONAL LARVAE CAUGHT	Gobiidae								
J 2 C1 10		SAMPLING DEPTH 0-3M							
BREVOORTIA TYRANNUS	2	2	5.9	5.5-6.4 TL					0.1
ANCHOA HEPSETUS	1	1	17.3	TL					0.1
PRIONOTUS CARLINUS	6	6	6.1	5.7-6.6 SL					0.4
ETREPOS 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	OPHIIDIIDAE								
	SYNGNATHICAE								
	BLENNIIIDAE								
	TRIGLICAE								
	UNIDENTIFIED								
J 3 C1 10		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
PRIONOTUS CARLINUS	1	1	4.9	SL					0.1
ETREPOS MICROSTOMUS	12	12	5.0	2.7-8.5 SL					1.5
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE								
	TRIGLICAE								
J 4 C2 10		SAMPLING DEPTH 0-6M							
UROPHYCIS SP.	6	4	5.2	2.7-6.5 NL					0.7
PRIONOTUS CARLINUS	4	4	4.0	3.5-4.5 SL					0.5
CITHARICHTHYS ARCTIFRONS	1	1	7.0	SL					0.1
ETREPOS MICROSTOMUS	15	15	7.7	4.6-11.1 SL					1.8
HIPPOGLOSSINA OBLONGUS	1	1	5.3	SL					0.1
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE								

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2
06612 1966	NUMBER	LENGTHS (MM)		NC.		NUMBER	LENGTHS (MM)		NO.		10M
STA. D M SPECIFS ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	PER 10M
K 6 20 09	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-23M				EGGS
ANCHOA HEPSETUS	24	23	10.6	5.5-15.8	TL	8	6	11.6	7.0-16.0	TL	9.9
ENGRAULIS EUPYSTOLE	7	7	13.2	6.9-16.9	TL	6	6	11.6	7.0-16.0	TL	4.1
CERATOSCOPELUS WAKAMINGI						1	1	5.4		SL	0.3
UROPHYCIS SP.	23	14	3.5	2.1- 4.1	NL	118	21	4.3	2.9- 5.5	NL	46.2
SCOMBEROMORUS CAVALLA	1	1	6.0		SL						0.3
BETHEUS OCELLATUS	2	2	6.2	6.0- 6.5	SL						0.7
CITHARICHTHYS ARCTIFRONS	14	13	5.2	4.0- 6.8	SL	13	12	5.4	3.7- 7.9	SL	8.5
ETROPLUS 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 CYNOGLOSSUS						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. SYNOODONTIDAE BREGMACEROTIDAE OPHIOTIDAE SERRANIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED					CYCLOTHONE SP. LOPHIIFORMES OPHIOTIDAE SERRANIDAE GOBIIDAE TRIGLIDAE					
.....											
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 EUPYSTOLE	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					0.3
MICROPOGON UNDULATUS	1	1	4.2		SL						0.3
BETHEUS 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. SYNOODONTIDAE CARAPIDAE GOBIIDAE UNIDENTIFIED					SYNOODONTIDAE CARAPIDAE GOBIIDAE TETRAODONTIDAE UNIDENTIFIED					
.....											
I 1 20 05	SAMPLING DEPTH 0-6M										
MICROPOGON UNDULATUS	4	4	4.6	3.4- 6.1	SL						0.5
SYMPHURUS SP.	1	1	6.8		SL						0.1
ADDITIONAL LARVAE CAUGHT	OPHIOTIDAE UNIDENTIFIED										
.....											
I 2 20 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 UNDULATUS	28	28	3.5	2.6- 4.4	SL						3.4
ETROPLUS 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										
.....											
I 3 20 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
OPHICHTHYS 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
CERATOSCOPELUS WAKAMINGI						2	2	6.0	5.0- 7.1	SL	0.3
DIAPHUS SP.	1	1	12.9		SL						0.3
NETOLYCHNUS VALIDAE						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
HEMANTHIA VIVANUS	1	1	4.7		SL						0.3
LARIMUS FASCIATUS	1	1	3.2		SL	1	1	3.7		SL	0.5
MICROPOGON UNDULATUS	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
PRIENOTUS CAROLINUS						1	1	6.3		SL	0.2
BETHEUS OCELLATUS	1	1	4.7		SL	4	4	5.6	7.4-14.4	SL	1.0
ETROPLUS MICROSTOMUS	40	37	3.8	3.1- 4.8	SL	129	26	5.2	3.3- 7.6	SL	53.1
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	SYNOODONTIDAE OPHIOTIDAE SERRANIDAE PRIACANTHIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE					SYNOODONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIOTIDAE SERRANIDAE SCIAENIDAE URANOSCOPIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE SCORPAENIDAE TRIGLIDAE BALISTIDAE UNIDENTIFIED					

[illegible]

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
06612 1966		NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	PER 10M	
STA.	D M	TOTAL	MEAS.	MEAN	RANGE	EGGS	TOTAL	MEAS.	MEAN	RANGE	EGGS	L/FVAE	EGGS
M 3	29 09	SAMPLING DEPTH		0-15M									
		2	2	44.1	42.0-45.2	TL							0.6
		266	49	9.2	4.3-17.8	TL							10.6
		64	34	7.7	4.4-14.0	TL							19.4
		1	1	4.7		SL							0.3
		3	3	4.8	4.3-5.3	SL							0.9
		2	2	4.2	3.9-4.6	SL							0.6
		6	6	3.6	2.7-5.4	SL							1.8
		165	162	3.6	2.7-4.6	SL							50.0
		1	1	11.3		SL							0.3
		3	3	11.0	8.9-12.9	SL							0.9
		1	1	3.6		SL							0.3
		5	5	5.1	4.2-6.7	SL							1.5
		2	2	5.7	5.5-5.8	SL							0.6
		50	25	5.8	4.1-8.9	SL							15.2
		33	32	5.3	3.3-11.2	SL							10.0
		12	10	8.5	5.9-12.1	SL							3.6
ADDITIONAL LARVAE CAUGHT		SYNOdontICAE											
		CPHIDIICAE											
		SERRANICAE											
		CARANGICAE											
		SCIAENICAE											
		SPHYRAENICAE											
		URANOSCOPICAE											
		BLENNICAE											
		CALLIONYMICAE											
		GOBIIDAE											
		TRIGLIDAE											
		EALSTICAE											
		UNIDENTIFIED											
.....													
M 4	29 09	SAMPLING DEPTH		0-15M									
		236	40	7.5	4.7-16.0	TL							71.5
		8	8	9.7	3.9-16.5	TL							2.4
		1	1	9.4		SL							0.3
		1	1	6.3		SL							0.3
		1	1	7.6		SL							0.3
		29	29	3.5	2.5-4.4	SL							8.8
		2	2	5.3	4.2-6.5	SL							0.6
		1	1	6.4		SL							0.3
		9	9	6.6	5.1-11.4	SL							2.7
		4	4	5.4	4.8-5.8	SL							1.2
		6	6	4.6	2.7-7.7	SL							1.8
		2	2	7.7	6.6-8.7	SL							0.6
		34	33	5.2	2.6-11.7	SL							10.3
		1	1	4.3		SL							0.3
ADDITIONAL LARVAE CAUGHT		MURAENICAE											
		OPHICHTHICAE											
		SERRIVMERIDAE											
		CYCLOTHICAE SP.											
		SYNOdontICAE											
		LOPHIICHTHES											
		BREGMACOPTIDAE											
		CPHIDIICAE											
		SERRANICAE											
		CARANGICAE											
		LABRIDAE OR SCARIDAE											
		SPHYRAENICAE											
		URANOSCOPICAE											
		BLENNICAE											
		CALLIONYMICAE											
		GOBIIDAE											
		TRIGLIDAE											
		UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2		
DEF 12 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	PD. PER 100		
STA.	D M	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS	
A 3	29 09	SAMPLING DEPTH 0-15M										
APTICHTHYS KENDALLI		1	1	55.5	TL					0.3		
MYRICHTHYS SP.		1	1	55.5	NL					0.3		
OPHICHTHYS GOMESI		1	1	65.3	TL					0.3		
ANCHOA HEPSETUS		112	53	8.9	4.0-17.8	TL				33.9		
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		
SCIAEOMERUS CAVALIA		1	1	5.0	SL					0.3		
PRIONOTUS CARLINUS		3	3	4.5	4.3- 4.7	SL				0.9		
BETHUS DEELLATUS		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										
		SYNODONTICAE										
		LOPHIIFORMES										
		OPHIIDIAE										
		CARANGIDAE										
		SERRANIDAE										
		CARANGIDAE										
		LABRIDAE OR SCARIDAE										
		PLENNIIDAE										
		CALLIONYMIDAE										
		GOBIIDAE										
		TRICHTURIDAE										
		TRIGLICAE										
		BALISTICAE										
		UNIDENTIFIED										
.....												
A 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
MYCTOPIDAE							2	2	4.3	3.7- 5.0	SL	0.7
RENTHOSEMA SUBOBLIQUE							1	1	5.6		SL	0.3
DIAPHYS SP.							5	5	5.5	4.1- 8.5	SL	1.7
HYGROPHUM REINHARDT							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
SCIAEOMERUS CAVALIA		3	3	8.3	7.9- 8.5	SL						1.0
PRIONOTUS CARLINUS							4	4	4.5	4.4- 4.6	SL	1.3
BETHUS DEELLATUS		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	8.6	6.3-11.4	SL	3.9
ADDITIONAL LARVAE CAUGHT		MURAENIDAE				OPHICHTHIDAE						
		SYNODONTICAE				SYNODONTICAE						
		LOPHIIFORMES				PARALEPTOICAE						
		SERRANIDAE				LOPHIIFORMES						
		APOGONIDAE				OPHIIDIAE						
		CARANGIDAE				CARANGIDAE						
		SPARIDAE				SERRANIDAE						
		FOMACENTIDAE				CARANGIDAE						
		LABRIDAE OR SCARIDAE				LABRIDAE OR SCARIDAE						
		GOBIIDAE				CALLIONYMIDAE						
		BALISTICAE				GOBIIDAE						
		TETRAODONTIDAE				SCORPAENIDAE						
						TRIGLICAE						
						BALISTICAE						
						TETRAODONTICAE						
						UNIDENTIFIED						

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	D M	NUMBER LENGTHS (MM) NO. EGGS					NUMBER LENGTHS (MM) NO. EGGS					ND. PER 10M	
SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	
A 5 29 09		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M				
OPHIOTHEUS GOMESI		3	3	31.7	23.0-44.0	TL	1	1	36.6		TL	1.2	
OPHIOTHEUS OCELLATUS		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	
BENTHOSEMA SUBROSTRALE							3	3	4.6	3.9- 5.1	SL	1.0	
CERATOSCOPUS MAHEFENSIS		1	1	8.4		SL						0.3	
CERATOSCOPUS WARMINGI		1	1	8.4		SL	1	1	5.4		SL	0.6	
PIAHIUS SP.		2	2	8.1	7.1- 9.2	SL						0.7	
ELECTRONA RISSOI							1	1	6.2		SL	0.3	
LAMEFANYCTUS ALATUS DR PHOTONOTUS							2	2	6.5	6.5- 6.6	SL	0.7	
LAMEFANYCTUS CLPRINUS							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	
HEMANTHIS VIVANUS		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	
SCOMBROCRUS CAVALLA		2	2	7.7	5.4- 10.1	SL						0.7	
BOCHUS OCELLATUS		48	25	4.3	2.4- 7.7	SL	5	4	8.0	4.2- 14.4	SL	16.1	
CYCLOPSETTA FIMBRIATA		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						
		CYCLOTHICNE SP.					SYNODONTICAE						
		SYNODONTICAE					PARALEPTICAE						
		LDPHILIFORMES					LOPHIIFORMES						
		BREGMACETIDAE					BREGMACEROTICAE						
		OPHIDIIDAE					OPHIDIIDAE						
		CARAPICAE					CARAPIDAE						
		FISTULAFIIDAE					SERRANIDAE						
		SERRANIDAE					GRAMMISTICAE						
		GRAMMISTICAE					POMACENTRIDAE						
		PRIACANTHICAE					LABRICA OR SCARICAE						
		APOGONIDAE					MUGILIDAE						
		CHAETOCENTRIDAE					CALLIONYMIDAE						
		LABRIDAE OR SCARIDAE					Gobiidae						
		CALLIONYMIDAE					ACANTHURIDAE						
		TRICHTIRIDAE					GEMPYLIDAE						
		SCORPAENICAE					SCORPAENICAE						
		TRIGLICAE					TRIGLICAE						
		BALISTICAE					BALISTIDAE						
		UNIDENTIFIED					UNIDENTIFIED						
.....													
F 1 20 10		SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS		1	1	10.3		TL						0.1	
MICROPYGDA UNICULATUS		7	6	4.6	3.8- 5.7	SL						0.8	
ADDITIONAL LARVAE CAUGHT		CPHIDIIDAE											
		ATHERINIDAE											
		URANOSCOPIDAE											
		BLENNIIDAE											
		TRIGLICAE											
		UNIDENTIFIED											
.....													
P 2 20 10		SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS		2	2	31.1	30.0- 32.2	TL						0.2	
MICROPYGDA UNICULATUS		29	26	6.2	4.1- 9.2	SL						3.5	
PPIENDTUS CAROLINUS		7	7	6.9	5.9- 7.9	SL						0.8	
ETREPLUS MICROSTOMUS		2	2	5.0	3.7- 6.3	SL						0.2	
ADDITIONAL LARVAE CAUGHT		CPHIDIIDAE											
		SYNGNATHIDAE											
		SPARIDAE											
		BLENNIIDAE											
		TRIGLICAE											
		UNIDENTIFIED											
.....													
P 3 20 10		SAMPLING DEPTH 0- 6M											
ANCHOA HEPSETUS		3	3	15.2	9.3- 18.8	TL						0.4	
LARMUS FASCIATUS		1	1	5.7		SL						0.1	
MICROPYGDA UNICULATUS		6	4	5.0	4.1- 5.8	SL						0.7	
PPIENDTUS CAROLINUS		8	8	7.3	5.2- 8.1	SL						1.0	
ADDITIONAL LARVAE CAUGHT		DPHIDIIDAE											
		SYNGNATHICAE											
		URANOSCOPIDAE											
		BLENNIIDAE											
		CALLIONYMIDAE											
		Gobiidae											
		TRIGLICAE											
		UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
04612 1966		NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.			
STA. 04	SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 10M	
F 4	20 10	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M				EGGS	
	ELOPS SAUPUS	1	1	26.5		NL						0.3	
	GALLICHELYS 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	
	MYRICHTHYS PUNCTATUS	2	2	36.7	33.0-40.5	TL						0.6	
	MYRICHTHYS GOMESII	4	4	58.5	41.5-74.5	TL						1.3	
	ENGRAULIS EURYSTOMUS	14	14	15.6	6.0-27.9	TL						4.5	
	LEPOMUS FASCIATUS						1	1	3.9		SL	0.2	
	PERICHTHUS CAQUILINUS	3	3	5.8	5.1-6.5	SL						1.0	
	PERICHTHUS OCELLATUS	11	10	11.6	5.9-17.5	SL	3	3	4.6	3.6-5.5	SL	3.9	
	CYCLEPSSETTA FIMBRIATA	1	1	4.7		SL						0.3	
	ETROPLUS 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	
	SYMPHURUS SP.	1										0.3	
ADDITIONAL LARVAE CAUGHT		MURAENIDAE CYCLOTROCHNE SP. VINCIGUERRIA SP. SYNODONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIOTIDAE CARANGIIDAE FISTULARIIDAE SYNGNATHIDAE SERRANIDAE APOGONIDAE CARANGIIDAE LABRIDAE OR SCARIDAE URANOSCOPIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE TELEOSTOMIDAE UNIDENTIFIED					CONGRIDAE SYNODONTIDAE BREGMACEROTIDAE OPHIOTIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED						
.....													
F 5 20 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	ENGRAULIS EURYSTOMUS	7	2	12.1	5.6-18.6	TL	2	2	13.5	5.8-21.2	TL	2.8	
	PERICHTHUS OCELLATUS	1	1	6.4		SL						0.3	
	PERICHTHUS OCELLATUS	1	1	8.3		SL						0.3	
	ETROPLUS SP.	8	8	6.1	4.1-8.8	SL	8	8	5.6	4.3-7.1	SL	5.1	
	UPCHYCHIS SP.	1	1	3.5		NL						0.3	
	HEMIRHAMPHUS VIVANUS	9	7	6.3	4.7-7.9	SL	5	3	4.6	3.7-5.2	SL	4.4	
	MICROPOGON OCELLATUS						1	1	4.3		SL	0.3	
	ALXIS SP.	1	1	9.0		SL						0.3	
	PERICHTHUS OCELLATUS	52	22	6.4	3.1-11.1	SL	24	16	5.4	4.2-6.5	SL	23.6	
	CYCLEPSSETTA FIMBRIATA	2	1	5.9		SL						0.7	
	ETROPLUS 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	
	SYMPHURUS 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 CYCLOTROCHNE SP. SYNODONTIDAE LOPHIIFORMES OPHIOTIDAE CARANGIIDAE FISTULARIIDAE LABRIDAE OR SCARIDAE SPHYRAENIDAE CALLIONYMIDAE GOBIIDAE TRICHIURIDAE TRIGLIDAE PALISTIDAE UNIDENTIFIED					SYNODONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIOTIDAE CARANGIIDAE SERRANIDAE LABRIDAE OR SCARIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE UNIDENTIFIED						

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[illegible]

TABLE 3. (continued)

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CRUISE DATE 1961-1966 STA. NO. SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER 10M LARVAE	EGGS
F 7 12 11												
BRACHYDONTIA TYRANNUS	1	19.0	TL								0.3	
GERATOSCOPELUS 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	
MERLUCCIIUS BILINEARIS					5	4	4 5.6	2.4-10.4	NL	5	1.3	3.2
PEROPHILUS TRIACANTHUS	1	1 29.2	SL								0.3	
CITHARICHTHYS ARCTIFRONS						6	6 6.2	3.9-10.9	SL		2.0	
ADDITIONAL LARVAE CAUGHT	CONGRUOIDE					GOBIIDAE						
	SYNOBRATIDAE											
J 1 12 11												
MICROPOGON UNICULATUS	1	1 10.9	SL								0.1	
PARALICHTHYS DENTATUS	2	2 10.8	10.7-10.9	SL	0						0.2	C.C
ADDITIONAL LARVAE CAUGHT	GOBIIDAE											
J 2 13 11												
BRACHYDONTIA TYRANNUS	1	1 20.5	TL								0.1	
PRIONOTUS CAROLINUS	1	1 16.0	SL								0.1	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE											
J 3 13 11												
BRACHYDONTIA TYRANNUS	1	1 10.6	TL								0.1	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE											
J 4 14 11												
BRACHYDONTIA TYRANNUS	6	6 9.2	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	
ETREPOS 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	5.2
SCOPHTHALMUS AQUOSUS	6	6 3.4	2.7-4.0	SL							1.8	
J 5 14 11												
UROPHYCIS SP.	25	23 11.7	3.0-27.5	NL							7.6	
MERLUCCIIUS BILINEARIS	1	1 6.7	NL	0							0.3	C.C
CITHARICHTHYS ARCTIFRONS	1	1 10.6	SL								0.3	
ETREPOS 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	0.6
J 6 14 11												
GERATOSCOPELUS MADEIRENSIS												
UROPHYCIS SP.	8	8 4.2	2.2-6.7	NL		1	1 7.9	SL			0.2	
MERLUCCIIUS BILINEARIS	1	1 7.6	NL	0		31	25 5.4	2.8-5.1	NL		7.5	
CITHARICHTHYS ARCTIFRONS	8	8 6.6	5.9-8.7	SL		2	2 6.2	7.6-8.8	NL	0	0.6	C.C
PARALICHTHYS DENTATUS	2	2 6.5	6.4-7.5	SL	25	27	27 7.2	5.7-10.0	SL		6.8	
						1	1 7.7	SL	17		0.8	10.4
J 7 14 11												
UROPHYCIS SP.												
MERLUCCIIUS BILINEARIS					0	9	5 2.7	1.4-4.0	NL		3.0	
CITHARICHTHYS ARCTIFRONS						3	3 4.6	3.2-6.3	NL	0	1.0	0.0
PARALICHTHYS DENTATUS					0	1	1 6.4	SL			0.3	
SCOPHTHALMUS AQUOSUS					0	1	1 3.7	SL	2		0.3	0.7
ADDITIONAL LARVAE CAUGHT	1					1	1 4.5	SL			0.6	
						LOPHIIFORMES						
K 1 19 11												
BRACHYDONTIA TYRANNUS	17	17 15.1	4.4-22.0	TL							2.1	
UROPHYCIS SP.	1	1 4.9	NL								0.1	
MERLUCCIIUS BILINEARIS	1	1 3.1	NL	0							0.1	C.C
PARALICHTHYS DENTATUS					1						0.0	0.1
SCOPHTHALMUS AQUOSUS	7	7 2.9	2.4-3.5	SL							0.8	
K 2 19 11												
BRACHYDONTIA 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	5.5
SCOPHTHALMUS AQUOSUS	28	26 3.0	2.2-5.8	SL							8.5	
K 3 19 11												
BRACHYDONTIA TYRANNUS	1	1 6.0	TL								0.3	
UROPHYCIS SP.	3	3 3.7	3.4-4.1	NL							0.9	
ETREPOS 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	19.1
SCOPHTHALMUS AQUOSUS	2	2 3.8	2.3-5.2	SL							0.6	
ADDITIONAL LARVAE CAUGHT	GOBIIDAE											

TABLE 3. (continued)

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CRUISE DATE STA. NO. M. SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				NO. PER 10 ² LARVAE	NO. PER 10 ² EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS. EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS. EGGS		
NO. 16 11	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS		
PREVORTIA TYRANNUS	67	37	8.0	5.0-11.4 TL						
UROPHYCIS SP.	39	19	7.1	3.7-11.3 NL					8.1	
PEICNOTUS CARLINUS	1	1	7.2	SL					4.7	
CITHARICHTHYS ARCTIFRONS	4	4	11.1	10.3-11.6 SL					0.1	
ETCEPUS MICROSTOMUS	24	24	8.5	7.3-11.3 SL					0.5	
PARALICHTHYS DENTATUS	22	22	5.2	2.7-7.0 SL					2.9	
				113					2.7	13.7
NO. 17 11	SAMPLING DEPTH 0-15M									
ELOFS SAURUS	2	2	25.6	23.5-27.8 NL					0.6	
PEICNOTUS OCELLATUS	1	1	57.5	TL					0.3	
ANCHOA HEPSETUS	1	1	19.0	TL					0.3	
UROPHYCIS SP.	11	9	4.0	3.2-6.0 NL					3.3	
MICROPOGON UNICULATUS	13	13	6.4	4.6-8.2 SL					3.9	
PEICNOTUS CARLINUS	1	1	7.1	SL					0.3	
CITHARICHTHYS ARCTIFRONS	20	20	9.0	7.0-12.0 SL					6.1	
ETCEPUS MICROSTOMUS	4	4	9.3	7.7-11.3 SL					1.2	
PARALICHTHYS DENTATUS	3	3	6.9	6.5-7.5 SL					0.9	13.3
ADDITIONAL LARVAE CAUGHT	SYNOBRANCHIAE									
	PAPAELEPIDIDAE									
	CPHIDIIDAE									
	BLENNIIDAE									
	GOBIIDAE									
	TRICHIURIDAE									
NO. 16 11	SAMPLING DEPTH 0-6M									
ELOFS SAURUS	1	1	23.8	NL					0.1	
PREVORTIA TYRANNUS	10	10	9.8	6.5-11.4 TL					1.2	
ANCHOA HEPSETUS	4	3	15.7	13.5-17.5 TL					0.5	
PARALICHTHYS DENTATUS	1	1	15.5	TL					0.1	
HYGROPHUM BENDIRI	1	1	7.4	SL					0.1	
UROPHYCIS SP.	32	28	3.5	1.6-7.3 NL					3.9	
MYLIUS LINEARIS	1	1	2.5	NL					0.1	0.0
MICROPOGON UNICULATUS	23	22	4.5	2.7-6.2 SL					2.8	
PEICNOTUS CARLINUS	5	5	5.6	5.3-5.8 SL					0.6	
BETHUS OCELLATUS	1	1	4.7	SL					0.1	
CITHARICHTHYS ARCTIFRONS	3	3	8.0	6.3-9.6 SL					0.4	
ETCEPUS MICROSTOMUS	39	35	5.5	3.1-10.3 SL					4.7	
PARALICHTHYS DENTATUS	10	10	4.6	3.2-6.9 SL					1.2	0.2
SYACIUM PAPILLOSUM	2	2	5.2	4.7-5.7 SL					0.2	
SYMPHYRUS SP.	2	2	12.3	12.3-12.3 SL					0.2	
ADDITIONAL LARVAE CAUGHT	SYNOBRANCHIAE									
	BREGMACEROTIDAE									
	CPHIDIIDAE									
	SERRANIDAE									
	CARANGIIDAE									
	URANOSCOPIDAE									
	CALLIONYMIDAE									
	GOBIIDAE									
	SCORPAENIDAE									
	UNIDENTIFIED									