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INDUSTRIAL FISHERIES OFF MADRAS COAST BASED ON EXPLORATORY SURVEYS DURING 1973—1980*

In an earlier article, data on Industrial Fisheries off Visakhapatnam coast (*Mar. Fish. Infor. Serv. T & E Ser.*, No. 15, 1-15, 1980) were presented for areas lying between latitude zones 19°40'N (off Puri) and 15°40'N (off Nizampatnam) and in depths ranging from 10 to 90 m. At the Madras Research Centre of CMFRI, there existed data for areas (Fig. 1) south of 15°40'N upto the latitude zone of 10°40'N off Velanganni in depths ranging from 10 to 130 m for a eight year period from 1973 to 1980. The results of analysis of these data are presented here with a view to providing information on and extending our knowledge about the spatial and seasonal distribution of various industrially important fisheries as also their resource potential along the north Tamil Nadu-South Andhra Coast.

The authors are grateful to the Exploratory Fisheries Project (GOI), Madras for providing the Research Centre with log records of exploratory surveys carried out by their two 17.5 m trawlers M.V. *Meena Sitara* and M.V. *Meena Gaveshak* in the regions cited previously for further analysis and interpretation by the Scientists of the Madras Research Centre of CMFRI.

The following are some of the salient findings:

1. As compared with the Visakhapatnam coast, a 17.5 m vessel could yield an annual average catch of 62 tonnes of demersal fish along the Madras coast returning 657 kg/day, 216 kg/haul, 116 kg/hr and 0.58kg/hr/H.P., expending 95 days and 533.45 hrs and making 287 hauls per annum (Tables IA & B).
2. In the catches of both the vessels, silver bellies held the pride of place in most years (Tables IIA & B). Similarly the second place was invariably held by perches. While the order of importance of jew fishes, rays & skates and carangids was respectively 3, 4 and 5 in the catches of M.V. *Meena Sitara*, the corresponding ranks were held by rays & skates, carangids and jew fishes in the catches of M.V. *Meena Gaveshak*. The sixth and the seventh ranks were held by lizard fishes and thread-fin breems in the catches of M.V. *Meena Sitara*, while the order was reversed in the catches of M.V. *Meena Gaveshak*. As in the case of silver bellies and perches, the order of importance held by sharks, prawns and lobsters was always 8, 9 and 10 in the catches of both the vessels. In general, most groups witnessed two

peaks of abundance during the periods from January to June and from September to December.

3. A detailed analysis to identify the most productive areas with respect to each category of fish revealed a few interesting facts (Tables III A & B). For example, among 25 productive areas that could be identified, 14 areas were productive for only one category; 2 for two categories; 4 for three categories; and 1 for four categories. The corresponding areas and categories were as follows:

- a) Areas 11-79/F3; 11-80/F4, 11-79/F5 & 13-80/B4; 12-80/B2 & 13-80/B6; 12-80/C2 & 13-80/C5; 12-80/B5, 14-80/B5 & 14-80/A6; 12-80/B6, 12-80/C6 & 13-80/C3; and 12-80/C6 respectively for silver bellies, prawns, perches, rays & skates, sharks, thread-fin breems and lizard fishes.

- (b) Areas 13-80/C1 and 14-80/B1 respectively for lizard fishes and lobsters, and rays & skates and jew fishes.

- (c) Areas 11-79/F6, 12-80/B3, 12-80/C3 and 13-80/C6 respectively for silver bellies, rays and skates and jew fishes; perches, carangids and lobsters; jew fishes, sharks and prawns; and perches, jew fishes and carangids.

- (d) Area 14-80/B2 for silver bellies, jew fishes, carangids and prawns. Whereas 'others' (miscellaneous) category was productive in areas 11-79/F5, 12-80/C3, 15-80/B2 and 15-80/D3; 'all fish' was in 11-80/A5, 12-80/C3, 14-80/B3 and 15-80/D3.

Maximum effort was expended in latitude zone 13°10' and in area 13-80/C1 by both the trawlers.

4. The depth-wise analysis of catch rates (Tables IV A & B) revealed that maximum values for perches and jew fishes in the catches of both the vessels were obtained around 20-30 m depths. Thread-fin breems and lizard fishes were relatively more abundant in deeper areas of 50-60 m. The catch rates of prawns were high in 20-30 m depth range and of lobsters in

*Prepared by S/Shri P. T. Meenakshisundaram, J. C. Gnanamuthu, R. Sarvesan, Dr. E. Vivekanandan, M. Rajagopalan, S. Srinivasarengan, S. K. Balakumar, S. Chandrasekar and P. Thirumili with the guidance of Dr. B. Krishnamoorthi.

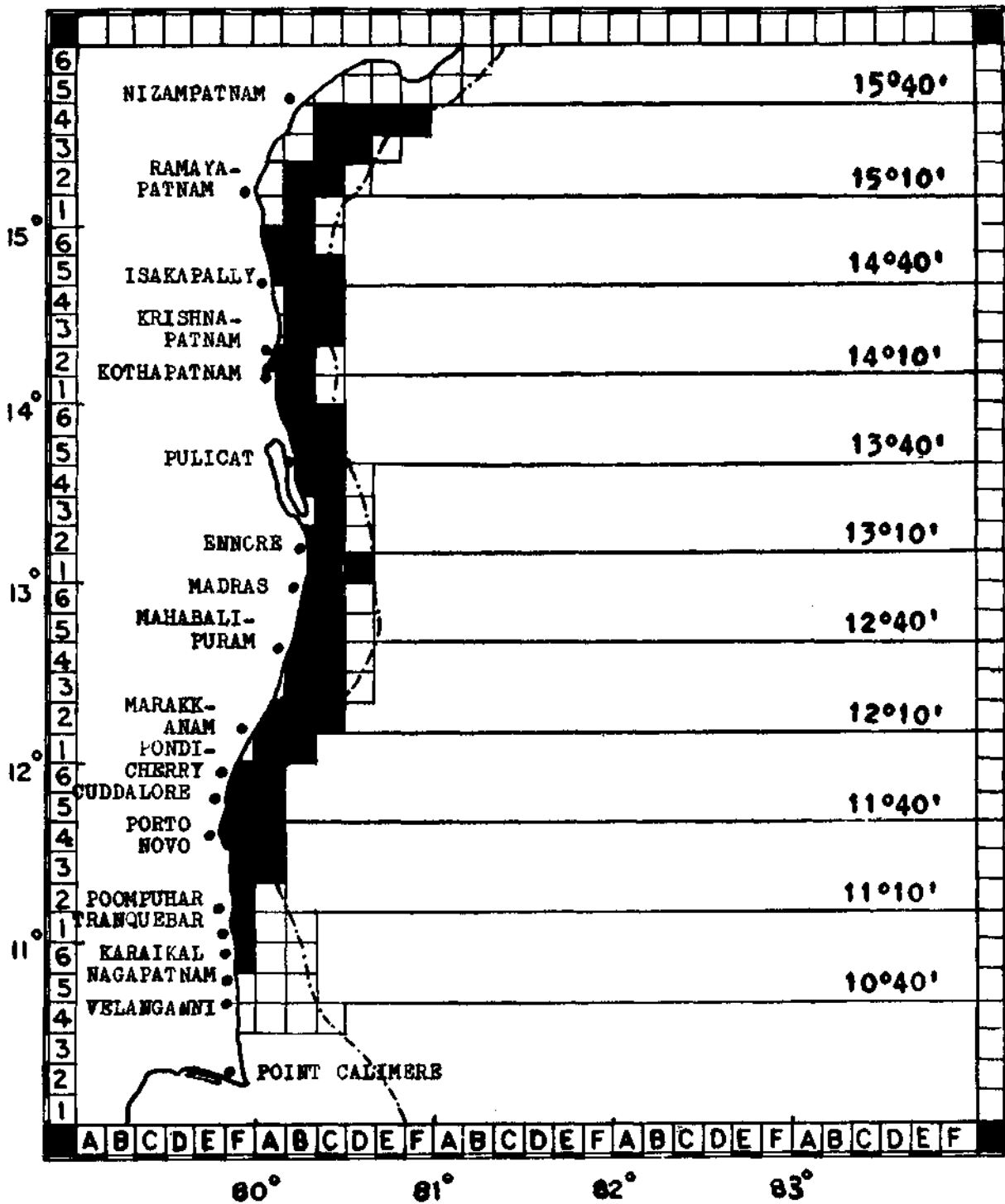


Fig. 1. Map of north Tamil Nadu-South Andhra coast. Areas surveyed are shaded.

30-40 m. The relative abundance of the remaining categories viz., silver bellies, rays & skates, carangids, sharks & others were distributed over a wide depth range. Furthermore, the shallower zones of 10-20-30 m

appeared favourable for "all fish."

The deepest zone explored was 120-130 m by M.V. *Meena Gaveshak* in 1974. This depth zone

exhibited the second maximum catch rate for "all fish", with silver bellies dominating the catch. It may, however, be commented here that the effort expended by both the vessels in depths beyond 60 m was very meagre. Through the years 1973-80, maximum effort by both the vessels was deployed in depth zone 20-30 m followed by 40-50 m zone.

5. In the entire region explored, a potential yield of 1.4 t./sq.km could be expected which is one and three-fourth times higher than that estimated for the Andhra-Orissa region (0.8 t./sq.km) (Table V). The lowest yield (0.7 t./sq.km) was observed off Madras/Ennore region (13°10'). With this zone as a reference point, it was noticed that the yields increased both in the southern and northern zones, the richest among them

being Ramayapatnam (2.2 t./sq.km) in the north (15°10') and Porto-novo/Cuddalore (1.3 t./sq.km) in the south (11°40'). Similar trends were apparent with respect to yields of most categories. The exceptions were the jew fishes, the lizard fishes and the thread-fin breams. While the jew fishes were more productive in the northern zones than in the southern; in the case of both the lizard fishes and the thread-fin breams, the northern as well as the southern zones were less productive. For prawns, the most productive zones were located off Ramayapatnam (15°10') in the north and off Porto-Novo/Cuddalore (11°40') in the south. Furthermore, these studies have helped to establish the fact that the north Tamil Nadu-south Andhra coast is far richer than that of the north Andhra-Orissa coast.

Table 1A. Details of exploratory trawling surveys carried out by the Government of India vessel M. V. Meena Sitara during the years from 1973 to 1980 (Base: Madras)

	1973	1974	1975	1976	1977	1978	1979	1980
1. No. of Days out of Port	153	192	129	164	112	85	115	112
2. No. of Days of fishing	134	160	108	139	83	72	113	108
3. No. of hauls	370	417	310	346	259	137	217	244
4. Effort (hrs)	646.60	781.51	606.50	654.74	518.55	248.89	435.81	477.99
5. Catch (kg)	84,289	98,494.5	86,262	95,801.25	72,782.25	22,057	25,745	26,540
6. Depth range (m)	16-60	16-65	14-58	08-56	15-75	10-56	15-58	15-54
7. Catch per day out of Port (kg)	550.9	513.0	668.7	584.2	694.8	259.5	223.9	237.4
8. Catch per day of fishing (kg)	629.0	615.6	798.7	689.2	876.9	306.4	227.8	246.2
9. Catch per haul (kg)	227.8	236.2	278.3	276.9	281.0	161.0	118.6	109.0
10. Catch per hour (kg)	130.4	126.0	142.2	146.3	140.4	88.6	59.2	55.5
11. Catch per hour/h. p. (kg)	0.65	0.63	0.71	0.73	0.70	0.44	0.30	0.28
12. No. of latitude zones/No. of areas explored	8/26	9/21	6/20	6/14	3/4	4/8	3/6	5/12
13. Extent of area explored (sq. km)	8,491.57	6,858.57	6,531.97	4,572.40	1,306.39	2,612.79	1,959.60	3,919.20
14. Important categories of fishes	A,D,C,G,F	A,B,C,E,G	B,A,E,C,G	A,B,D,C,E	A,C,E,B,H	A,G,C,E,B	A,F,E,D,C	A,D,C,B,F
15. No fishing in the month(s) of	—	—	4,10,11 & 12	6	8	8,9,10 & 11	5	—

Table 1B. Details of exploratory trawling surveys carried out by the Government of India vessel M. V. Meena Gaveshak during the years from 1973 to 1980 (Base: Madras)

	1973	1974	1975	1976	1977	1978	1979	1980
1. No. of days out of Port	111	171	171	114	123	91	119	119
2. No. of days of fishing	102	146	146	93	84	72	109	112
3. No. of hauls	305	392	414	243	213	208	214	307
4. Effort (Hrs)	422.23	704.01	751.24	441.10	386.96	406.48	419.02	631.58
5. Catch (kg)	70,916	81,104.5	1,11,800	54,254	51,166	38,082	23,463.5	50,657.5
6. Depth range (m)	14-100	12-125	13-50	20-60	12-56	14-60	16-60	14-56
7. Catch per day out of Port (kg)	638.9	474.3	653.8	475.9	416.0	418.52	197.1	425.7
8. Catch per day of fishing (kg)	695.3	555.5	765.8	583.4	609.1	528.9	215.3	452.3
9. Catch per haul (kg)	232.5	206.9	270.0	223.3	240.2	183.1	109.6	165.0
10. Catch per hour (kg)	168.0	115.2	148.8	123.0	132.2	93.7	55.8	80.2
11. Catch per hour/h.p. (kg)	0.84	0.58	0.74	0.56	0.66	0.47	0.28	0.40
12. No. of latitude zones/No. of Areas explored	7/27	9/25	6/24	5/14	8/19	5/16	3/5	5/14
13. Extent of area explored (sq km)	8,818.17	8,164.97	7,838.37	4,572.40	6,205.38	5,225.58	1,632.99	4,572.40
14. Important categories of fishes	A,C,F,G,D	A,B,E,C,F	A,B,E,C,G	A,E,C,B,F	A,C,E,B,D	A,C,E,G,F	A,E,F,D,C	A,D,C,F,B
15. No Fishing in the month(s) of	11	7	—	1,2,3 & 4	8 & 9	10,11 & 12	5	11 & 12

Table IIA: Total catches in kg (1); Catch rates in kg/hr (2); percentages (3) and months of abundance (4) of various categories of fishes as obtained from the exploratory surveys of M. V. Meena Sitara during the years from 1973 to 1980 (Base: Madras)

Categories	1973				1974				1975				1976			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A. Silver bellies	11,326	17.5	13.4	2,6,7,12	24,615	31.5	25.0	2,3,6	18,815	31.0	21.8	1,2,7	25,034	38.2	26.1	2,9
B. Perches	—	—	—	—	2,850	3.7	2.9	1,5	19,452	32.1	22.5	2,7,9	16,283	24.9	17.0	2,9
C. Rays & Skates	4,871	7.5	5.8	1,2,3,5,8	2,455	3.1	2.5	2,7,11	3,195	5.3	3.7	1,3,7	6,016	9.2	6.3	1,7,9
D. Jew fishes	10,011	15.5	11.9	7,8,9	—	—	—	—	—	—	—	—	9,125	13.9	9.5	2,7
E. Carangids	—	—	—	—	2,033.5	2.6	2.1	2,4	3,592	5.9	4.2	2,9	2,868	4.4	3.0	2,8,9,11
F. Thread-fin breams	1,606	2.5	1.9	8	1,268	1.6	1.3	5,9,10	1,670	2.8	1.9	6,7,8	1,158	1.8	1.2	8,10
G. Lizard fish	2,562	4.0	3.0	6,7,8,9	2,012	2.6	2.0	6,7	3,051	5.0	3.5	6,7,8	269	0.4	0.3	5
H. Sharks	859	1.3	1.0	4	899	1.2	0.9	4	397	0.7	0.5	7,8	226	0.3	0.2	7
I. Prawns	109.5	0.2	0.1	3,9	73.5	0.1	0.1	1,10	70	0.1	0.1	2	74.25	0.1	0.1	3,9
J. Lobsters	—	—	—	—	20.5	0.03	0.02	12	43	0.1	0.04	6	31	0.04	0.03	8
K. Others	52,944.5	81.9	62.9	3,7,9	62,268	29.7	63.2	2,7,9	35,977	59.3	41.7	2,5,8	34,717	53.1	36.2	3,9
ALL FISH	84,289	130.4			98,494.5	126.0			86,262	142.2			95,801.25	146.3		

Categories	1977				1978				1979				1980			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A. Silver bellies	57,834	111.5	79.5	1,5,9	5,611	22.5	25.4	1,2,4	8,715	20.0	33.9	1,4,6,12	13,460	28.2	50.7	2,7,8,11
B. Perches	503	1.0	0.8	6,7,10	241	1.0	1.1	4	49	0.1	0.2	9	1,358	2.8	5.1	2,8
C. Rays & Skates	3,592	6.9	4.9	1,4,6,10	976	3.9	4.4	1,2,5	906	2.1	3.5	2,9	1,781	3.7	6.7	3,5,8
D. Jew fishes	840	1.6	1.1	1,3	—	—	—	—	1,944	4.6	7.6	2,6	3,415	7.1	12.9	2,5
E. Carangids	1,491	2.9	2.0	1,6,10	405	1.6	1.8	1,3,5	3,033	7.0	11.9	7,8	593	1.2	2.2	2,8
F. Thread-fin breams	64	0.1	0.09	10	8	0.03	0.04	4	3,260	7.5	12.6	7,8,9,10	958	2.0	3.6	4,8
G. Lizard fish	5	0.01	0.01	1	1,278	5.1	5.8	5,6	591	1.4	2.3	11,12	641	1.3	2.4	1,4
H. Sharks	477.5	0.09	0.7	4,5	83	0.3	0.4	1,4,6	172	0.4	0.7	2,3	110	0.2	0.4	2,8
I. Prawns	94	0.3	0.1	1	—	—	—	—	9	1.02	0.03	9	—	—	—	—
J. Lobsters	21	0.04	0.03	1	—	—	—	—	—	—	—	—	—	—	—	—
K. Others	7,890.75	15.2	10.8	3,7,10	13,455	54.1	61.0	1,6,7	7,016	16.1	27.3	2,8	4,224	8.8	15.9	2,5,9
ALL FISH	72,782.25	140.4			22,057	88.6			25,745	59.2			26,540	55.5		

Table II.B. Total catches in kg (1); Catch rates in kg/hr (2); Percentages (3) and months of abundance (4) of various categories of fishes as obtained from the exploratory surveys of M. V. Meena Gaveshak during the years from 1973 to 1980 (Base:Madras)

Categories	1973				1974				1975				1976			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A. Silver bellies	11,687	27.7	16.5	3,7,9,12	17,873	25.4	22.0	1,3,12	33,518	44.6	30.0	2,7,11	22,562	51.2	41.6	6,9
B. Perches	—	—	—	—	4,480	6.4	5.5	1,9	24,783	33.0	22.2	2,9	1,780	4.0	3.3	6,10
C. Rays & Skates	3,748	8.9	5.3	4,8	2,141	3.0	2.6	3,12	3,842	5.1	3.5	1,8	2,311	5.2	4.3	6,9
D. Jew fishes	2,309	5.5	3.3	3,7,9,10	—	—	—	—	—	—	—	—	1,166	2.6	2.1	7
E. Carangids	—	—	—	—	2,478	3.5	3.1	4,9,12	4,070	5.4	3.6	2,7,9	2,348	5.3	4.3	6,9
F. Thread-fin breams	2,562	6.1	3.6	6,7,9	1,325	1.9	1.6	1,8	1,347	1.8	1.2	1,3,11	1,602	3.6	3.0	6,12
G. Lizard fish	2,509	5.9	3.5	6,7	957	1.4	1.2	1,6,8	2,549	3.4	2.5	6,12	768	1.8	1.4	5
H. Sharks	513	1.2	0.7	2,7,9	451	0.6	0.6	4	365	0.5	0.3	6,10	1,310	3.0	2.4	7
I. Prawns	228	0.5	0.3	4,7	38	0.1	0.1	9	59	0.1	0.05	8,12	60	0.1	0.1	8
J. Lobsters	—	—	—	—	21.5	0.03	0.03	1,9,12	32	0.04	0.02	1,6	51.5	0.1	0.1	9
K. Others	47,360	112.2	66.8	1,7,9	51,340	72.9	63.3	1,9,12	41,235	54.9	36.9	4,7,12	20,295.5	46.1	37.4	6,10
ALL FISH	70,916	168.0			81,104.5	115.2			1,11,800	148.8			54,254	123.0		

Categories	1977				1978				1979				1980			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
A. Silver bellies	38,511	99.5	75.3	1,3	5,300	13.0	13.9	4,6	6,754	16.1	28.8	2,11,12	16,777	26.6	33.1	2,5,8
B. Perches	350	0.9	0.7	6	594	1.5	1.6	1,3,7	140	0.3	0.6	6	2,071	3.3	4.1	3,7
C. Rays & Skates	4,773.5	12.3	9.3	3,5	3,683	9.1	9.7	3,6	1,250	2.9	5.3	6,10	5,137	8.1	10.2	3,6
D. Jew fishes	346	0.9	0.7	1,3	—	—	—	—	1,711	4.1	7.3	6,7	10,890	17.2	21.5	2,6,8
E. Carangids	1,136	2.9	2.2	2,3	1,516	3.7	4.0	2,7	4,153	9.9	17.7	7,8	1,551	2.5	3.1	2,8
F. Thread-fin breams	7	0.02	0.01	1	613	1.5	1.6	7	1,974	4.7	8.4	7,9	2,339	3.7	4.6	1,8
G. Lizard fish	—	—	—	—	1,174	2.9	3.1	8	1,189	2.8	5.1	12	1,635	2.6	3.2	1,5,9
H. Sharks	40	0.1	0.1	6	171	0.4	0.5	6	104	0.2	0.4	10	242.5	0.4	0.5	1,9
I. Prawns	38.5	0.1	0.08	1	—	—	—	—	66	0.2	0.3	7	19	0.03	0.04	7
J. Lobsters	13	0.03	0.03	2	—	—	—	—	3	0.01	0.01	11	—	—	—	—
K. Others	5,951	15.4	11.6	2,5	25,031	61.6	65.7	2,6	6,119.5	14.6	26.1	8,12	9,996	15.8	19.7	2,8
ALL FISH	51,166	132.2			38,082	93.7			23,463.5	55.8			50,657.5	80.2		

5 Table III A. Areas of abundance in terms of annual catch-rate (kg/hr) in respect of major categories of fishes as obtained from the exploratory surveys of M.V. Meena Sitara during the years from 1973 to 1980 (Base: Madras)

Latitude/Areas	A. SILVER BELLIES									B. PERCHES										
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1978	1980	All years Area	Lat.
11°40'																				
11-79/F5	0.0	0.0		170.8					59.39		0.0	5.6		7.5					5.17	
11-79/F6	0.0			280.0					189.83	110.36	0.0			4.6					3.12	4.37
12°10'																				
12-80/A1	33.3								33.33		0.0								0.00	
12-80/A2	11.1		33.0						22.63		0.0		20.0						10.53	
12-80/B2	41.1		47.0						43.24		0.0		43.5						15.87	
12-80/B3	29.4	0.0	30.4						21.39		0.0	10.8	27.9						14.97	
12-80/C3	0.0								0.00	23.41	0.0								0.00	11.68
12°40'																				
12-80/B4	139.4	0.0	42.6	37.2		51.4			46.43		0.0	4.0	16.2	1.6		6.3			7.47	
12-80/C4	16.4								16.36		0.0								0.00	
12-80/B5			0.0			50.0			8.33				2.0		5.0				2.50	
12-80/C5	15.9							28.0	18.18		0.0							0.0	0.00	
12-80/B6	26.7								26.67		0.0								0.00	
12-80/C6	17.8	57.1		16.7		1.6	22.2	33.7	22.90	25.16	0.0	0.5		0.0		0.2	0.0	0.1	0.04	0.93
13°10'																				
13-80/B1	21.8		36.8				44.6		38.44		0.0		0.0			0.0			0.00	
13-80/C1	8.2	44.4	16.3	18.5	70.1	29.7	13.3	26.1	31.94		0.0	0.2	0.2	1.3	0.01	0.03	0.04	0.1	0.25	
13-80/B2	15.6								15.63		0.0								0.00	
13-80/C2	5.1	32.1	19.8	50.8				12.5	20.60		0.0	0.2	4.2	0.0			0.0	0.8	0.73	
13-80/C3		28.6		31.1				13.4	13.6	19.42	30.14		0.8				1.4	2.6	1.61	0.35
13°40'																				
13-80/C4	80.0	18.8	0.0	0.0			17.1	37.8	21.57		0.0	4.6	50.3	2.4			0.9	5.0	7.23	
13-80/B5	42.6		44.2	6.7		0.0			32.51		0.0		34.4	12.8		0.0			25.35	
13-80/C5		18.9	35.8	26.2		10.6		51.0	28.86			11.1	39.6	21.0		3.4		3.2	24.24	
13-80/B6			23.9	15.6					22.63				32.9	44.4					34.69	
13-80/C6		47.5	33.3	93.5					71.94	40.80		6.1	25.5	88.8					61.34	34.29
14°10'																				
14-80/A1								8.0	8.00										3.2	3.20
14-80/B1			15.5						55.6	32.37			15.5						9.5	12.95
14-80/B2	17.8	0.0	49.9	23.6	140.7	18.0			42.1	60.60	0.0	7.8	137.5	34.0	0.8	5.1		13.4	26.97	
14-80/B3	0.0	3.5	21.3		128.9	0.0			28.8	68.30	63.10	0.0	7.1	74.4		1.6	0.0	25.8	14.67	21.06
14°40'																				
14-80/B4	0.0	0.0	47.7	18.8	127.5			20.4	64.40		0.0	15.3	36.0	1.6	2.3			5.9	10.20	
14-80/C4	0.0								0.00		0.0								0.00	
14-80/A5		0.0							0.00			18.7							18.70	
14-80/B5		8.8	50.0						13.27			8.3	56.3						13.55	
14-80/A6		186.3							186.29			0.0							0.00	
14-80/B6	48.5	13.9	83.8						41.26	48.70	0.0	4.9	0.0						2.14	9.63
15°10'																				
15-80/B1	23.9								23.88		0.0								0.00	
15-80/B2	22.9								22.91		0.0								0.00	
15-80/C2	100.0								100.00		0.0								0.00	
15-80/D3		28.6							28.60	27.94		11.3							11.25	1.30
15°40'																				
15-80/D4		0.0							0.00			19.0							19.00	
15-80/E4		0.0							0.00			13.1							13.08	
15-80/F4		0.0							0.00	0.00		20.0							20.00	16.68
All Latds./Areas	17.5	31.5	31.0	38.2	111.5	22.5	20.0	28.2	37.85	37.85	0.0	3.7	32.1	24.9	1.0	1.0	0.1	2.8	9.32	9.32

Table III A. (Continued.)

Latitude/Areas	C. RAYS & SKATES								D. JEW FISHES											
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
11°40'																				
11-79/F5	0.0	0.9		9.3					3.61		5.6	0.0							1.09	
11-79/F6	0.0			22.8					15.46	8.24	2.5							0.0	0.81	0.98
12°10'																				
12-80/A1	1.1								1.11		4.0								4.00	
12-80/A2	8.3		0.0						2.63		2.8		0.0						1.32	
12-80/B2	7.5		0.0						4.76		2.0		0.0						1.27	
12-80/B3	5.0	6.7	2.3						4.31		20.3	0.0	0.0						5.82	
12-80/C3	6.6								6.64	4.16	27.3								27.27	6.59
12°40'																				
12-80/B4	5.2	0.0	2.3	17.8		10.3			9.26		81.9	0.0	0.0	18.6		0.0			21.79	
12-80/C4	50.5								50.50		5.7								5.71	
12-80/B5			0.0			0.0			0.00				0.0						0.00	
12-80/C5	12.1							0.0	9.87		0.0								0.00	
12-80/B6	0.0					0.0			0.00		0.0								0.00	
12-80/C6	6.6	1.9		0.7			0.8	1.2	3.00	4.71	3.8	0.0		0.5		0.0	4.7	0.0	2.55	4.71
13°10'																				
13-80/B1	10.2		0.0				0.8		3.17		3.7		0.0				0.0		0.95	
13-80/C1	7.4	2.8	4.0	2.7	2.0	3.3	1.5	1.9	3.00		34.5	0.0		1.0	0.0	0.0	4.7	0.0	3.43	
13-80/B2	3.0								3.02		1.7								1.72	
13-80/C2	5.9	4.1	0.7	0.0			0.5	0.4	1.84		0.0	0.0	0.0	8.3			15.7	0.8	2.86	
13-80/C3		1.0		10.0			13.7	5.4	7.05	3.03		0.0	0.6				0.0	7.2	2.87	3.21
13°40'																				
13-80/C4	0.0	6.3	0.0	41.3			11.6	9.5	13.45		10.5	0.0	0.0	0.0			0.0	25.0	7.74	
13-80/B5	7.1		4.9	9.1		12.5			6.44		28.4		0.0	3.0		0.0			2.50	
13-80/C5		23.4	0.03	21.5		13.5		2.8	14.22			0.0	0.0	9.8		0.0		25.5	5.90	
13-80/B6			3.4	5.0					3.67				0.0	0.0	16.9				2.61	
13-80/C6		1.7	6.4	7.6					6.46	9.26		0.0	0.0	44.7					27.21	11.34
14°10'																				
14-80/A1								40.0	40.00										8.0	8.00
14-80/B2			36.4						14.6	27.21				0.0					56.4	23.74
14-80/B2	2.9	0.0	4.5	9.6	5.8	7.2			11.9	6.84	2.1	0.0	0.0	21.2	2.6	0.0		33.0	10.14	
14-80/B3	5.7	2.4	10.1		10.7	0.0			13.7	8.80	8.36	7.5	0.0	0.0		0.0		43.7	5.54	8.45
14°40'																				
14-80/B4	5.3	5.0	7.9	4.3	12.6			15.0	9.20		1.5	0.0	0.0	0.0	1.6			17.5	1.96	
14-80/C4	0.0								0.00		0.3								0.33	
14-80/A5		0.0							0.00			0.0							0.00	
14-80/B5		3.8	25.0						6.12			0.0	0.0						0.00	
14-80/A6		0.0							0.00			0.0	0.0						0.00	
14-80/B6	22.4	5.6	0.0						10.02	7.95	36.0	0.0	0.0						12.16	2.87
15°10'																				
15-80/B1	5.4								5.37		26.8								26.83	
15-80/B2	6.3								6.25		44.5								44.46	
15-80/C2	0.0								0.00		28.6								28.57	
15-80/D3		0.0							0.00	4.78		0.0							0.00	29.94
15°40'																				
15-80/D4		4.0							4.00			0.0							0.00	
15-80/E4		0.0							0.00			0.0							0.00	
15-80/F4		7.2							7.17	2.96		0.0							0.00	0.00
All Latds./Areas	7.5	3.1	5.3	9.2	6.9	3.9	2.1	3.7	5.44	5.44	15.5	0.0	0.0	13.9	1.6	0.0	4.6	7.1	5.80	5.80

Table III A. (Continued)

Latitude/Areas	E. CARANGIDS									F. THREAD-FIN BREAMS										
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
11°40'																				
11-79/F5	0.0	2.9		3.1					2.39		0.0	0.0		0.0					0.00	
11-79/F6	0.0			1.9					1.29	1.96	0.0			0.0					0.00	0.00
12°10'																				
12-80/A1	0.0								0.00		0.0								0.00	
12-80/A2	0.0								1.58		0.0		2.3						1.21	
12-80/B2	0.0		3.0						3.81		0.0		2.6						0.95	
12-80/B3	0.0	5.4	9.6						5.63		0.0	0.0	7.4						3.16	
12-80/C3	0.0								0.00	3.53									0.00	1.85
12°40'																				
12-80/B4	0.0	3.4	11.8	0.2		2.6			4.91		1.5	0.0	9.4	0.0		0.0			3.77	
12-80/C4	0.0								0.00		2.5								0.86	
12-80/B5			6.6			3.0			6.00				22.0			0.0			18.33	
12-80/C5	0.0							0.0	0.00		1.3						0.0		1.05	
12-80/B6	0.0								0.00		2.2								2.22	
12-80/C6	0.0	0.0		2.9		0.6	1.4	0.04	0.53	1.10	1.9	0.6		7.4		0.2	3.7	0.1	2.05	2.48
13°10'																				
13-80/B1	0.0		0.0			0.6			0.41		5.8		0.0				2.6		3.26	
13-80/C1	0.0	0.9	4.0	1.9	1.0	0.5	16.0	0.3	2.99		5.7	1.4	4.4	4.1	0.1	0.0	10.5	1.4	3.16	
13-80/B2	0.0								0.00		3.3								3.26	
13-80/C2	0.0	0.9	2.8	0.0				0.1	0.9	0.80	2.5	0.7	1.0	0.0			1.3	4.5	2.51	
13-80/C3		1.5		0.5				0.7	1.2	1.03	2.51	0.4	1.8				21.0	3.3	6.75	3.23
13°40'																				
13-80/C4	0.0	1.3	5.0	7.0				0.7	2.5	2.61	8.0	1.0	0.0	0.0			8.5	2.2	6.64	
13-80/B5	0.0		4.8	4.7		9.3			4.62		3.8		0.5	0.6		0.0			0.70	
13-80/C5		5.3	5.9	8.2		7.6			6.87			0.2	0.4	0.4		0.0			0.31	
13-80/B6			6.4	7.5					6.55				0.0	0.0					0.00	
13-80/C6		7.1	4.9	9.5					8.02	6.21		0.0	0.9	0.0					0.22	1.08
14°10'																				
14-80/A1								2.4	2.40										0.0	0.00
14-80/B1			8.3					7.9	8.10										5.0	2.10
14-80/B2	0.0	3.7	11.1	4.0	3.3	4.6		7.7	4.54		2.2	16.6	0.02	1.3	0.1	0.0			4.4	2.19
14-80/B3	0.0	2.4	6.4		3.8	4.4		4.1	3.53	4.18	1.0	1.2	0.9		0.2	0.0			1.9	0.67
14°40'																				
14-80/B4	0.0	3.0	5.1	0.0	4.6			4.1	3.46		2.1	3.5	0.0	0.0	0.2				4.2	0.89
14-80/C4	0.0								0.00		2.8									2.83
14-80/A5		13.2							13.20			0.0								0.00
14-80/B5		9.0	16.3						9.82			0.0								0.00
14-80/A6		8.6							8.57			0.0								0.00
14-80/B6	0.0	2.2	0.0						0.96	4.90	3.8	0.0	19.0							5.56
15°10'																				
15-80/B1	0.0								0.00		0.5									0.54
15-80/B2	0.0								0.00		0.0									0.00
15-80/C2	0.0								0.00		0.0									0.00
15-80/D3		13.6							13.63	1.58		0.0								0.00
15°40'																				
15-80/D4		3.8							3.80			0.0								0.00
15-80/E4		2.1							2.08			0.0								0.00
15-80/F4		0.0							0.00	2.25		0.0								0.00
All Latds./Areas	0.0	2.6	5.9	4.4	2.9	1.6	7.0	1.2	3.21	3.21	2.5	1.6	2.8	1.8	0.1	0.03	7.5	2.0	2.29	2.29

Table III A. (Continued)

Latitude/Areas	G. LIZARD FISHES										H. SHARKS									
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
11°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
12°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
12°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
13°10'	0.6	0.0	10.6	0.0	0.0	0.0	0.0	0.0	3.96	0.00	7.9	0.0	1.8	1.8	0.0	0.0	0.0	0.0	2.01	0.00
13°40'	2.1	0.0	18.8	0.0	0.0	0.0	0.0	0.0	2.14	0.00	0.8	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.79	0.00
14°10'	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.67	0.00	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.83	0.00
14°40'	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.54	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.00
15°10'	5.6	0.0	0.0	0.0	0.0	5.6	2.0	1.3	1.11	0.00	0.7	1.0	0.3	0.3	1.1	1.1	0.1	0.1	0.00	0.00
15°40'	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.20	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.69
16°10'	10.2	5.1	15.5	0.7	0.03	5.8	1.8	1.2	0.27	0.00	0.0	0.5	0.0	0.2	1.2	0.3	0.0	0.3	0.00	0.00
16°40'	2.7	0.3	8.4	0.0	0.0	0.0	0.0	0.0	4.74	0.00	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.49	0.00
17°10'	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.74	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
17°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.46
18°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.00	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.46
18°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.00	0.9	0.9	3.3	0.0	0.0	0.0	0.6	0.6	0.77	0.55
19°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.25	0.00
19°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.00	1.8	1.8	0.8	0.6	0.0	0.0	0.0	0.0	0.70	0.00
20°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.5	2.3	0.5	1.0	0.0	0.0	0.0	0.0	0.54	0.55
20°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.00	0.03	0.03	0.7	0.03	0.03	0.03	0.03	0.03	0.52	0.55
21°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
21°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
22°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.00	4.6	0.6	0.02	0.04	0.04	0.04	0.04	0.04	0.31	0.97
22°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.00	5.4	1.9	0.2	0.0	1.6	0.0	0.2	0.2	1.83	0.97
23°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.00	5.0	4.0	1.7	0.9	0.0	0.0	0.4	0.4	1.04	1.94
23°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	6.7	11.1	0.0	0.0	0.0	0.0	0.0	0.0	6.67	1.04
24°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.10	1.04
24°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	3.6	1.3	0.0	0.0	0.0	0.0	0.0	3.32	1.94
25°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	5.71	1.94
25°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
26°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.06	1.94
26°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	1.94
27°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
27°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	3.50	1.94
28°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
28°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
29°10'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
29°40'	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.94
All Latds./Areas	4.0	2.6	5.0	0.4	0.01	5.1	1.4	1.3	2.38	2.38	1.3	1.2	0.7	0.3	0.9	0.3	0.4	0.2	0.74	0.74

Table III A. (Continued)

Latitude/Areas	I. PRAWNS									J. LOBSTERS										
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
11°40'																				
11-79/F5	0.0	0.0		0.0					0.00		0.0	0.0		0.0					0.00	
11-79/F6	0.0			0.0					0.00	0.00	0.0	0.0		0.0					0.00	0.00
12°10'																				
12-80/A1	0.0								0.00		0.0								0.00	
12-80/A2	0.0		0.0						0.00		0.0		0.0						0.00	
12-80/B2	0.0		0.0						0.00		0.0		0.0						0.00	
12-80/B3	0.0	0.0	0.0						0.00		0.0	0.0	0.0						0.00	
12-80/C3	3.1								3.09	0.37	0.0								0.00	0.00
12°40'																				
12-80/B4	0.3	0.2	0.03	0.0		0.0			0.05		0.0	0.0	0.0	0.0		0.0			0.00	
12-80/C4	0.0								0.00		0.0								0.00	
12-80/B5			0.0			0.0			0.00		0.0	0.0			0.0				0.00	
12-80/C5	0.0							0.0	0.00		0.0						0.0		0.00	
12-80/B6	0.0								0.00		0.0								0.00	
12-80/C6	0.03	0.3		0.1		0.0	0.0	0.0	0.03	0.03	0.0	0.0		0.1		0.0	0.0	0.0	0.01	0.004
13°10'																				
13-80/B1	0.0		0.0				0.0		0.00		0.0		0.0				0.0		0.00	
13-80/C1	0.1	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01		0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.04	
13-80/B2	0.04								0.05		0.0								0.00	
13-80/C2	0.0	0.06	0.4	0.0			0.0	0.0	0.05		0.0	0.02	0.0	0.0			0.0	0.0	0.01	
13-80/C3		0.1		0.0			0.2	0.0	0.07	0.02		0.0	0.0	0.0			0.0	0.0	0.00	0.03
13°40'																				
13-80/C4	0.0	0.0	0.0	0.0			0.3	0.0	0.09		0.0	0.0	0.0	0.0			0.0	0.0	0.00	
13-80/B5	0.0		0.02	0.1		0.0			0.03		0.0		0.0	0.0		0.0			0.00	
13-80/C5		0.0	0.05	0.1		0.0		0.0	0.07			0.0	0.0	0.1				0.0	0.04	
13-80/B6			0.0	0.0					0.00				0.0	0.0					0.00	
13-80/C6		0.0	0.4	0.2					0.23	0.10		0.0	0.0	0.04					0.02	0.02
14°10'																				
14-80/A1								0.0	0.00									0.0	0.00	
14-80/B1			0.0					0.0	0.00				0.0					0.0	0.00	
14-80/B2	0.3	0.2	0.7	0.3	0.3	0.0		0.0	0.30		0.0	0.0	0.02	0.01	0.03	0.0		0.0	0.02	
14-80/B3	0.0	0.3	0.2		0.3	0.0		0.0	0.20	0.25	0.0	0.0	0.02		0.1	0.0		0.0	0.04	0.03
14°40'																				
14-80/B4	0.0	0.2	0.08	0.0	0.2			0.0	0.11		0.0	0.0	0.0	0.0	0.1			0.0	0.02	
14-80/C4	0.0								0.00		0.0								0.00	
14-80/A5		0.0							0.00			0.0							0.00	
14-80/B5		0.2	0.0						0.17			0.0	0.0						0.00	
14-80/A6		0.0							0.00			0.0							0.00	
14-80/B6	1.0	0.1	0.1						0.40	0.16	0.0	0.0	0.9						0.19	0.04
15°10'																				
15-80/B1	0.6								0.60		0.0								0.00	
15-80/B2	0.5								0.46		0.0								0.00	
15-80/C2	0.0								0.00		0.0								0.00	
15-80/D3		1.3							1.25	0.60		0.0							0.00	0.00
15°40'																				
15-80/D4		0.4							0.40			0.0							0.00	
15-80/E4		0.3							0.33			0.0							0.00	
15-80/F4		0.0							0.00	0.29		0.0							0.00	0.00
All Latds./Areas	0.2	0.1	0.1	0.1	0.3	0.0	0.02	0.0	0.10	0.10	0.0	0.03	0.1	0.04	0.04	0.0	0.0	0.0	0.02	0.02

Table III. A. (Continued)

Latitude/Areas	K. OTHERS								L. ALL FISH											
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
11°40'									42.39		50.0	31.5		258.5					114.04	
11-79/F5	44.4	22.2		67.8					63.46	50.62	36.6			386.7					273.97	176.53
11-79/F6	34.1			77.4																
12°10'									4.89		44.4								44.44	
12-80/A1	4.9								37.95		35.0			116.9					78.11	
12-80/A2	15.0		58.6						27.88		64.5			155.7					97.78	
12-80/B2	13.9		52.2						180.19		319.7	326.0		131.8					241.58	
12-80/B3	264.6	303.0	40.1						281.18	128.24	321.8								321.82	183.15
12-80/C3	281.2																			
12°40'									60.69		437.4	375.4	145.5	83.4		164.4			160.34	
12-80/B4	100.6	367.8	50.2	6.2		93.9			87.71		164.1								164.07	
12-80/C4	87.7								31.82				80.7		127.5				88.50	
12-80/B5			24.3						0.30		32.9								32.24	
12-80/C5	0.1							1.2	20.44		50.4						29.2		50.44	
12-80/B6	20.4								31.94	35.66	96.8	75.1		65.6		54.8	50.3	39.4	66.66	78.93
12-80/C6	60.4	13.9		36.9		45.6	15.4	2.9												
13°10'									10.47		63.0			73.5			53.4		56.97	
13-80/B1	20.8		36.8					4.7	18.81		110.8	71.7	63.8	54.1	77.9	70.2	67.4	34.1	68.86	
13-80/C1	44.0	16.3	19.1	23.6	3.5	30.7	19.2	2.9	24.46		50.6								50.58	
13-80/B2	24.5								10.18		17.2	54.5	53.9	78.6			46.2	33.1	41.76	
13-80/C2	0.5	16.1	16.3	16.2				14.3	16.35	17.39		58.3		51.4			73.7	45.6	56.24	64.38
13-80/C3		25.7		6.8				22.7												
13°40'									46.62		225.2	103.8	124.5	156.7			69.8	100.5	107.17	
13-80/C4	127.2	71.0	65.8	106.0			20.1	16.3	46.60		205.6								119.00	
13-80/B5	123.8		48.2	21.6		78.8			67.76			253.2	138.9	145.3		163.3		106.3	149.98	
13-80/C5		192.5	52.7	57.2		123.6		10.7	54.49				124.5	129.0					125.18	
13-80/B6			57.4	38.6					141.72	81.25		524.3	153.1	338.2					317.68	185.24
13-80/C6		459.6	80.9	93.9																
14°10'									2.4	2.40								64.0	64.00	
14-80/A1			30.7						37.0	33.37			106.3						186.0	139.84
14-80/B1									33.5	77.20		126.6	121.8	412.4	179.6	176.2	142.1		146.5	189.45
14-80/B2	96.6	92.9	208.6	85.6	22.6	102.0			39.3	79.74	76.92	200.8	127.8	261.9					157.5	183.36
14-80/B3	181.2	109.0	148.3		21.3	226.3									230.7					185.01
14°40'									37.47		109.0	121.4	140.4	51.4	167.6			92.4	129.54	
14-80/B4	95.2	90.4	43.3	20.8	18.5			24.9	72.17		82.0								82.00	
14-80/C4	72.2								30.10			73.1							73.10	
14-80/A5		30.1							191.71			246.6	167.5						237.96	
14-80/B5		213.0	18.8						75.72			276.3							276.29	
14-80/A6		75.7							146.76	90.22	260.2	242.0	114.1						219.43	168.21
14-80/B6	148.5	215.3	10.3																	
15°10'									166.36		225.6								225.64	
15-80/B1	166.4								168.46		244.0								244.04	
15-80/B2	168.5								228.57		357.1								357.14	
15-80/C2	228.6								384.13	195.50		442.3							442.25	263.83
15-80/D3		384.1																		
15°40'									91.70			118.9							118.90	
15-80/D4		91.7							140.43			155.9							155.92	
15-80/E4		140.4							219.18	139.89		246.3							246.33	162.07
15-80/F4		219.2																		
All Latds./Areas	81.9	29.7	59.3	53.1	15.2	54.1	16.1	8.8	49.99	49.99	130.4	126.0	142.2	146.3	140.4	88.6	59.2	55.5	117.14	117.14

Table III A. (Continued)

Latitude/ Area	M. EFFORT										All years Area	Lat.	
	1973	1974	1975	1976	1977	1978	1979	1980					
11°40'	4.50	10.50		8.00								23.00	
11-79/F5	4.75			10.00								14.75	37.75
12°10'	4.50											4.50	
12-80/A1	9.00		10.00									19.00	
12-80/A2	10.00		5.75									15.75	
12-80/B2	12.00	12.00	17.75									41.75	
12-80/B3	11.00											11.00	92.00
12-80/C3													
12°40'	6.50	5.00	30.00	32.00								81.50	
12-80/B4	14.00											14.00	
12-80/C4												12.00	
12-80/B5			10.00								2.50	13.37	
12-80/C5	10.87											4.50	
12-80/B6	4.50											4.50	
12-80/C6	215.00	20.00		30.17							142.25	586.25	711.62
13°10'	19.00	389.45	4.00								52.08	75.08	
13-80/B1	114.00		143.00	169.65	175.05	150.23					173.73	1435.60	
13-80/C1	21.50		19.00	6.00							32.50	21.50	
13-80/B2	20.30	53.40		10.00							18.08	219.87	1825.79
13-80/C2		17.16										73.74	
13-80/C3													
13°40'	2.50	8.00	6.00	10.25								66.25	
13-80/C4	7.05		75.00	31.75								117.80	
13-80/B5		11.00	53.50	77.50								162.33	
13-80/C5			43.75	8.00								51.75	
13-80/B6		23.00	41.50	100.17								164.67	562.80
13-80/C6													
14°10'													
14-80/A1													
14-80/B1													
14-80/B2	16.83	31.50	11.00	133.50	117.50	25.00						2.50	
14-80/B3	44.00	42.00	47.75		156.00	7.75						8.00	
14°40'													
14-80/B4	12.00	20.00	33.50	27.75	70.00							12.00	
14-80/C4	6.00											6.00	
14-80/A5		10.00										10.00	
14-80/B5		65.00	8.00									73.00	
14-80/A6		7.00										7.00	
14-80/B6	15.80	20.50	10.50									46.80	318.05
15°10'													
15-80/B1	33.50											33.50	
15-80/B2	24.00											24.00	
15-80/C2	3.50											3.50	
15-80/D3		8.00										8.00	69.00
15°40'													
15-80/D4		10.00										10.00	
15-80/E4		12.00										12.00	
15-80/F4		6.00										6.00	28.00
All Latds./Areas	646.60	781.51	606.50	654.74	518.55	248.89	435.81	477.99	4370.59	4370.59	4370.59	4370.59	4370.59

Table III B. Areas of abundance in terms of annual catch-rate (kg/hr) in respect of major categories of fishes as obtained from the exploratory surveys of M. V. Meena Gaveshak during the years from 1973 to 1980 (Base: Madras)

Latitude/Areas	A. SILVER BELLIES								B. PERCHES												
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	
10°40'																					
10-79/F6					9.0				8.98	8.98					0.0				0.00	0.00	
11°10'																					
11-79/F1						10.9			10.93						0.0				0.00	0.00	
11-79/F2				42.8		11.1			34.04					3.3	0.0				2.42	2.42	
11-79/F3				63.8					63.81					6.6					6.63	6.63	
11-80/A3		0.0							0.00	38.11		0.0							0.00	3.32	
11°40'																					
11-79/F4		8.0		0.0					4.56			34.4		2.0					20.35	20.35	
11-80/A4		0.0							0.00			0.0							0.00	0.00	
11-79/F5	12.1	0.0		0.0					9.14		0.0	49.5		0.0					10.70	10.70	
11-80/A5		0.0							0.00			105.0							105.03	105.03	
11-79/F6	25.2	0.0		0.0	5.0				13.11		0.0	28.3		0.0	16.0				10.85	10.85	
11-80/A6	0.0	0.0							0.00	7.68	0.0	0.0							0.00	16.81	
12°10'																					
12-80/A1	0.0		50.8		27.7	0.0			22.90		0.0	15.3		4.7	0.0				6.61	6.61	
12-80/B1			1.5			0.0			0.86			15.0			5.3				10.85	10.85	
12-80/A2	0.0		3.4	0.0	12.7				4.53		0.0	24.8	0.0	14.5					19.72	19.72	
12-80/B2	0.0		10.2		18.0	0.0			5.14		0.0	51.2		13.5	1.9				19.85	19.85	
12-80/C2	0.0		110.3			0.0			16.14		0.0	3.8			5.1				2.38	2.38	
12-80/B3	148.2		16.6	52.4	30.0				55.25		0.0	99.5	5.7	2.5					36.44	36.44	
12-80/C3	108.0								108.00	21.89	0.0								0.00	18.37	
12°40'																					
12-80/B4	272.0			32.8	120.0	16.7			38.11		0.0		9.0	0.0	0.0				7.34	7.34	
12-80/C4	37.6		32.0	165.9		0.0			97.50		0.0	8.0	0.8	0.0	0.0				0.67	0.67	
12-80/B5	3.3			13.4					12.16		0.0		7.3						6.46	6.46	
12-80/C5	12.5		13.9	11.1				20.5	12.84		0.0	13.3	2.6						4.59	4.59	
12-80/B6	9.0		13.0	0.0					7.95		0.0	0.9	1.6						0.97	0.97	
12-80/C6	28.6	53.7	50.4	20.8	0.0	10.3	29.5	21.0	31.88	32.91	0.0	0.08	5.3	1.0	0.0	0.1	0.01	0.1	0.79	1.57	
13°10'																					
13-80/B1	16.1		9.3						10.94		0.0		0.0						0.00	0.00	
13-80/C1	9.5	35.4	40.9	90.2	38.0	26.6	13.1	19.5	33.82		0.0	0.04	0.8	5.4	0.1	0.02	0.1	0.8	0.84	0.84	
13-80/D1	0.0								0.00		0.0								0.00	0.00	
13-80/B2	17.5		37.6			0.0			29.15		0.0		28.7			0.0			19.60	19.60	
13-80/C2	1.2	38.7	113.1		33.1		18.4	29.0	37.99		0.0	0.0	3.3		1.0		0.9	1.4	1.36	1.36	
13-80/C3		28.21	139.2		36.4		12.9	30.2	35.75	33.69		0.0	63.2		0.0		1.5	5.8	8.46	8.46	2.14
13°40'																					
13-80/B4					13.3	2.2	10.1	30.0	6.90					0.0	1.7	2.0	1.0		1.76	1.76	
13-80/C4						8.7		24.0	16.10						4.2		4.8		4.50	4.50	
13-80/B5			41.0			15.0			28.41				62.7		0.0	1.1			40.46	40.46	
13-80/C5			45.7		139.3	11.3			44.08				63.2		0.0	1.4			49.46	49.46	
13-80/B6	100.0		43.4						44.97		0.0		57.8						56.22	56.22	
13-80/C6		31.0	62.6						52.57	31.84	0.0	0.0	50.5			0.0			39.70	28.20	

Table III B. (Continued)

14°10'	14-80/A1							23.4	23.41										9.0	9.04	
	14-80/B1	29.8	9.2	36.8		93.3		50.0	49.37		0.0	4.5	31.4		1.2				6.3	10.28	
	14-80/A2	50.4							50.43		0.0									0.00	
	14-80/B2	51.5	2.5	39.5		196.4	28.1	42.0	77.04		0.0	7.6	79.2		0.4	1.7			10.1	13.49	
	14-80/B3	0.0	14.6	60.2		186.7	0.0	43.7	63.07		0.0	10.5	36.5		0.7	0.0			7.4	8.68	
	14-80/C3							0.0	0.00	65.51									3.3	3.25	11.25
14°40'	14-80/B4		0.0	92.6					26.47			1.9	11.1							4.48	
	14-80/C4							0.0	0.00										3.8	3.75	
	14-80/A5	14.1							14.07			3.4								3.44	
	14-80/B5	0.0	112.0						30.48			3.8	46.2							15.30	
	14-80/C5							0.0	0.00										4.0	4.00	
	14-80/A6		0.0						0.00			7.2								7.22	
	14-80/B6		46.7						46.66	23.24		5.2								5.22	7.35
15°10'	15-80/B1	68.6							68.56		0.0									0.00	
	15-80/B2	14.5							14.48		0.0									0.00	
	15-80/C3		3.7						3.70	47.96		0.0								0.00	0.00
15°40'	15-80/C4		10.0						10.00			5.0								5.00	
	15-80/D4		10.0						9.95			4.3								4.29	
	15-80/E4		16.4						16.44			18.8								18.79	
	15-80/F4		0.0						0.00	10.77		21.8								21.82	13.56
All Latds./Areas		27.7	25.4	44.6	51.2	99.5	13.0	16.1	26.6	36.75	36.75	0.0	6.4	33.0	4.0	0.9	1.5	0.3	3.3	8.22	8.22

Table III B. (Continued)

Latitude/Areas	C. RAYS & SKATES								D. JEW FISHES											
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
10°40'																				
10-79/F6					5.2				5.18	5.18					1.7				1.73	1.73
11°10'																				
11-79/F1					13.5				13.47						0.8				0.80	
11-79/F2				5.7	10.6				7.09				0.0	0.4					0.10	
11-79/F3				6.1					6.07				0.0						0.00	
11-80/A3		0.0							0.00	6.83		0.0							0.00	0.14
11°40'																				
11-79/F4		2.6		2.7					2.61		0.0		0.0						0.00	
11-80/A4		0.0							0.00		0.0		0.0						0.00	
11-79/F5	10.3	0.0		5.0					7.91		1.7	0.0	0.0						1.28	
11-80/A5		0.0							0.00		0.0		0.0						0.00	
11-79/F6	18.3	0.0		0.0	0.0				9.40		9.6	0.0	0.0	0.0					4.91	
11-80/A6	28.4	0.0							26.45	8.07	2.9	0.0							2.75	1.73
12°10'																				
12-80/A1	14.0		1.0		20.3	9.8			8.05		2.4		0.0		0.0	0.0			0.58	
12-80/B1			0.0			19.3			8.29				0.0		0.0	0.0			0.00	
12-80/A2	0.0		3.6	30.0	18.2				7.50		0.0		0.0	0.0	0.0				0.00	
12-80/B2	9.3		2.1		21.3	15.6			10.00		7.0		0.0		0.0	0.0			1.46	
12-80/C2	0.0		0.0			51.1			18.37		2.8		0.0		0.0	0.0			1.39	
12-80/B3	0.0		4.7	28.9	20.0				15.61		11.1		0.0	0.0	0.0				1.83	
12-80/C3	0.6								0.63	11.05	14.3								14.25	1.52
12°40'																				
12-80/B4	0.0			9.0	30.0	0.0			8.91		20.0		2.5	0.0	0.0	0.0			2.54	
12-80/C4	10.7		0.0	10.2		19.4			12.27		6.7		0.0	0.0	0.0				1.20	
12-80/B5	3.5		0.0	0.0					0.42		0.0		19.6						17.24	
12-80/C5	15.4		0.0	2.0				2.5	4.46		0.0		0.0	0.0			0.0		0.00	
12-80/B6	0.0		0.0	0.0					0.00		0.0		0.0	0.0					0.00	
12-80/C6	7.4	2.0	2.9	0.4	0.0	0.0	0.3	1.0	2.12	2.94	7.8	0.0	0.0	1.4	0.0	0.0	0.0	0.2	1.46	1.99
13°10'																				
13-80/B1	1.8		2.0						1.98		0.0		0.0						0.00	
13-80/C1	11.5	1.8	2.6	5.0	2.0	0.5	1.1	1.4	2.04		0.0	0.0	2.7	0.1	0.0	0.4	5.9		1.16	
13-80/D1	0.0								0.00		0.0								0.00	
13-80/B2	8.9		5.3			0.0			5.42		1.5	0.0	0.0		0.0				0.31	
13-80/C2	0.3	1.2	1.7		0.0		0.8	7.2	4.85		0.0	0.0	0.0		0.0	0.0	8.0		4.96	
13-80/C3		0.0	7.1		17.3		8.7	4.4	5.49	2.72		0.0	0.0		0.0		23.1	8.2	8.87	2.07

Table III B (Continued)

13°40'																				
	13-80/B4				0.0	7.2	21.4	3.8	12.71					0.0	0.0	32.6	13.3	13.93		
	13-80/C4					10.2		18.8	14.37						0.0		29.0	14.02		
	13-80/B5			3.0	0.0	13.7			6.17					0.0	0.0			0.00		
	13-80/C5			3.2	16.3	15.2			5.93					0.0	0.0			0.00		
	13-80/B6	10.0		6.9					6.96		0.0			0.0	0.0			0.00		
	13-80/C6		4.1	14.7			12.7		13.37	10.94		0.0	0.0		0.0			0.00		5.64
14°10'																				
	14-80/A1							9.7	9.71									16.5	16.50	
	14-80/B1	22.1	17.0	11.1	23.0			12.3	18.31		9.9	0.0	0.0	0.9				60.8	4.78	
	14-80/A2	2.6							2.57		1.9								1.86	
	14-80/B2	8.8	5.6	4.5	16.2	11.9		23.2	13.31		5.6	0.0	0.0	1.7	0.0			60.5	12.84	
	14-80/B3	10.4	6.3	3.7	26.6	10.6		20.8	14.09		1.6	0.0		2.3	0.0			48.6	10.38	
	14-80/C3							4.5	4.50	14.17								58.5	58.50	10.96
14°40'																				
	14-80/B4		2.5	3.6					2.83				0.0	0.0					0.00	
	14-80/C4							27.3	27.25									58.8	58.75	
	14-80/A5		0.0						0.00				0.0						0.00	
	14-80/B5		2.2	16.2					5.97				0.0	0.0					0.00	
	14-80/C5							32.0	32.00									50.0	50.00	
	14-80/A6		12.8						12.84				0.0						0.00	
	14-80/B6		0.0						0.00	4.75			0.0						0.00	3.09
15°10'																				
	15-80/B1	2.1							2.06		6.2								6.18	
	15-80/B2	0.0							0.00		10.2								10.21	
	15-80/C3		0.0						0.00	1.30			0.0						0.00	6.93
15°40'																				
	15-80/C4		12.5						12.50				0.0						0.00	
	15-80/D4		10.8						10.83				0.0						0.00	
	15-80/E4		1.6						1.10				0.0						0.00	
	15-80/F4		0.0						0.00	5.16			0.0						0.00	0.00
All Latds./Areas	8.9	3.0	5.1	5.2	12.3	9.1	2.9	8.1	6.46	6.46	5.5	0.0	0.0	2.6	0.9	0.0	4.1	17.2	3.95	3.95

Table III B. (Continued)

Latitude/Areas	E. CARANGIDS								F. THREAD-FIN BREAMS											
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
10°40'																				
10-79/F6					2.2				2.16	2.16					0.0				0.00	0.00
11°10'																				
11-79/F1						1.2			1.20						0.0				0.00	
11-79/F2				4.5	0.8				3.49					0.2	0.0				0.14	
11-79/F3				5.7					5.74					1.4					1.35	
11-80/A3		5.8							5.83	4.20		11.7							11.67	1.61
11°40'																				
11-79/F4		1.6		4.0					2.61			0.0		1.8					0.79	
11-80/A4		7.0							7.00			13.0							13.00	
11-79/F5	0.0	0.0		0.0					0.00		0.0	0.0		0.0					0.00	
11-80/A5		2.7							2.74			12.6							12.57	
11-79/F6	0.0	0.0		0.0	2.0				0.09		6.8	0.0		0.0	0.0				3.46	
11-80/A6	0.0	0.0							0.00	0.77	0.9	0.0							0.81	2.04
12°10'																				
12-80/A1	0.0		5.8		8.3	4.4			4.22		9.3		0.8		0.0	0.0			2.55	
12-80/B1			3.5			6.3			4.69				2.2		0.0	0.0			1.26	
12-80/A2	0.0		3.3	0.0	2.7				2.75		6.7		0.6	0.0	0.0	0.0			0.91	
12-80/B2	0.0		4.2		2.4	4.1			3.13		12.5		0.8		0.0	0.0			2.89	
12-80/C2	0.0		1.8			4.5			2.16		13.4		1.3		0.0	0.0			6.81	
12-80/B3	0.0		6.8	12.8	2.5				8.28		5.0			0.4	0.0				1.01	
12-80/C3	0.0								0.00	4.21	5.3								5.25	2.58
12°40'																				
12-80/B4	0.0			5.6	15.0	0.0			4.94		0.0			1.3	0.0	0.0			1.04	
12-80/C4	0.0		0.0	11.7		5.4			7.67		2.7		0.0	0.0		0.0			0.48	
12-80/B5	0.0			0.3					0.24		1.8			0.7					0.86	
12-80/C5	0.0		5.2	3.0				0.3	2.73		2.9		2.1	1.4				0.0	1.81	
12-80/B6	0.0		0.0	0.0					0.00		0.7		3.6	0.5					4.36	
12-80/C6	0.0	0.7	4.2	2.4	0.0	0.0	0.05	0.2	1.06	1.62	12.7	1.3	1.4	4.4	0.0	18.5	0.5	2.0	4.45	3.78
13°10'																				
13-80/B1	0.0		4.0						3.04		7.5		0.6						2.26	
13-80/C1	0.0	1.2	2.1	7.8	0.8	2.1	15.1	0.9	5.51		2.9	2.1	1.6	7.1	0.05	0.0	5.9	2.5	3.20	
13-80/D1	0.0								0.00		7.5								7.50	
13-80/B2	0.0		7.1			0.0			4.86		6.4		4.0		0.0				3.99	
13-80/C2	0.0	1.6	9.3		0.0		1.8	1.4	2.28		2.5	0.9	5.7		0.0		14.2	4.0	4.27	
13-80/C3		1.1	3.9		0.9		0.1	1.8	1.48	4.77		0.0	0.0		0.0		2.0	1.4	1.09	3.19

Table III B. (Continued)

13°40'	13-80/B4				0.0	3.6	0.3	0.8	2.04					0.0	0.0	4.2	0.0	1.71		
	13-80/C4					4.2		5.4	4.78					0.0	0.0		4.0	1.91		
	13-80/B5		8.2		0.0	8.6			7.93			1.4		0.0	0.0			0.90		
	13-80/C5		6.4		4.3	3.6			5.80			1.4		0.0	0.0			1.11		
	13-80/B6	0.0	4.6						4.50		0.0	2.1						2.06		
	13-80/C6	1.5	4.7			4.2			4.29	4.61	1.0	0.5		0.0				0.50	1.31	
14°10'	14-80/A1							1.2	1.18								0.0	0.00		
	14-80/B1	0.0	6.2	9.9	4.4			9.0	5.15	0.9	0.0	2.1	0.0				12.5	2.01		
	14-80/A2	0.0							0.00	0.4			0.0					0.43		
	14-80/B2	0.0	7.4	11.7	5.6	6.0		8.1	7.08	3.9	2.3	2.9	0.0	0.0			9.4	2.76		
	14-80/B3	0.0	8.9	8.7	3.4	6.7		7.0	6.41	4.7	1.2	3.1	0.0	0.0			9.0	2.85		
	14-80/C3							0.3	0.25	6.22							0.0	0.00	2.51	
14°40'	14-80/B4		5.9	5.1					5.62		1.7	1.5						1.65		
	14-80/C4							0.3	0.25								0.0	0.00		
	14-80/A5		4.6						4.58		0.0							0.00		
	14-80/B5		3.5	8.7					4.93		0.8	0.0						0.60		
	14-80/C5							0.4	0.40								0.0	0.00		
	14-80/A6		1.3						1.28			0.0						0.00		
15°10'	14-80/B6		2.7						2.71	4.41		0.0						0.00	0.64	
	15-80/B1	0.0							0.00		3.9							3.86		
	15-80/B2	0.0							0.00		3.6							3.59		
15°40'	15-80/C3		0.0						0.00	0.00		0.6						0.57	3.55	
	15-80/C4		6.5						6.50			3.3						3.25		
	15-80/D4		10.2						10.24			2.2						3.24		
	15-80/E4		12.2						12.22			3.9						3.89		
	15-80/F4		7.3						7.27	9.83		9.7						9.70	4.47	
All Latds./Areas	0.0	3.5	5.4	5.3	2.9	3.7	9.9	2.5	4.14	4.14	6.1	1.9	1.8	3.6	0.02	1.5	4.7	3.7	2.83	2.83

Table III B. (Continued)

Latitude/Areas	G. LIZARD FISHES									H. SHARKS										
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
10°40'																				
10-79/F6					0.0				0.00	0.00					0.4				0.43	0.43
11°10'																				
11-79/F1					0.0				0.00						0.0				0.00	
11-79/F2					0.0				0.00					0.3	0.0				0.24	
11-79/F3				0.0					0.00				0.4						0.42	
11-80/A3		0.0							0.00	0.00	0.0							0.00	0.25	
11°40'																				
11-79/F4		0.0		0.0					0.00		0.0		0.8						0.36	
11-80/A4		0.0							0.00		0.0								0.00	
11-79/F5	0.0	0.0		0.0					0.00	0.4	0.3		0.0						0.39	
11-80/A5		0.0							0.00		0.0								0.00	
11-79/F6	6.5	0.0		0.0	0.0				3.33	1.4	0.2		0.0	3.0					0.94	
11-80/A6	8.2	0.0							7.63	1.13	2.5	0.0							2.34	0.58
12°10'																				
12-80/A1	12.1		0.0		0.0	0.0			2.92		0.0		0.3		0.7	0.0			0.16	
12-80/B1			0.0			0.0			0.00				0.0		1.1				0.46	
12-80/A2	0.0		0.7	0.0	0.0	0.0			0.47	1.3		0.3	5.0	0.5					0.72	
12-80/B2	3.3		0.6		0.0	0.0			0.92	1.1		5.5		0.3					2.30	
12-80/C2	2.3		0.0			0.0			1.13	1.4		0.0			0.5				0.88	
12-80/B3	0.0		0.2	0.0	0.0				0.29	0.0		0.8	1.2	0.0					0.82	
12-80/C3	0.0								0.00	0.96	0.0								0.00	1.16
12°40'																				
12-80/B4	0.0			0.0	0.0	0.0			0.00		0.0		1.6	0.0	0.0				1.34	
12-80/C4	0.0		0.0	0.0		0.0			0.00		0.0		0.4		0.0				0.24	
12-80/B5	0.0			0.0					0.00			0.0	33.4						29.39	
12-80/C5	4.3		8.6	0.0			9.8		3.86		0.0		0.9				0.0		0.38	
12-80/B6	0.7		0.0	0.0					0.12		0.0		0.0						0.00	
12-80/C6	18.7	3.6	11.8	2.7	0.0	7.0	9.9	0.9	6.94	5.68	0.6	0.4	0.1	0.6	0.0	0.03	0.2	0.3	0.36	1.52
13°10'																				
13-80/B1	7.1		10.0						9.30		0.0		0.0						0.00	
13-80/C1	2.9	2.5	8.9	3.6	0.0	7.5	1.4	3.1	3.30		1.5	0.04	0.1	0.9	0.1	0.2	0.3	0.3	0.27	
13-80/D1	7.5								7.50		0.0								0.00	
13-80/B2	1.5		0.0			0.0			0.31		0.0		0.5			0.0			1.16	
13-80/C2	0.9	0.0	5.4		0.0		0.0	7.3	5.25		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.28	
13-80/C3		0.0	0.0		0.0		0.0	2.9	1.46	3.41		0.0	0.0	0.9		0.0	0.9		0.48	0.31

Table III B. (Continued)

Latitude/Areas	I. PRAWNS									J. LOBSTERS										
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
10°40'																				
10-79/F6					0.0				0.00	0.00					0.0				0.00	0.00
11°10'																				
11-79/F1					0.0				0.00						0.0				0.00	
11-79/F2				0.0	0.0				0.00					0.1	0.0				0.07	
11-79/F3				0.8					0.84					0.2					0.19	
11-80/A3		0.5							0.50	0.33		0.0							0.00	0.09
11°40'																				
11-79/F4		0.0		1.4					0.61			0.1		0.0					0.06	
11-80/A4		1.2							1.20			0.0							0.00	
11-79/F5	1.4	0.0		0.0					1.08		0.0	0.3		0.0					0.06	
11-80/A5		0.0							0.00			0.0							0.00	
11-79/F6	0.0	0.0		0.0	0.0				0.00		0.0	0.1		0.0	0.0				0.04	
11-80/A6	0.0	0.0							0.00	0.69	0.0	0.0							0.00	0.04
12°10'																				
12-80/A1	0.0		0.0		0.0	0.0			0.00		0.0		0.0		0.0	0.0			0.00	
12-80/B1			0.0		0.0	0.0			0.00				0.0		0.0	0.0			0.00	
12-80/A2	0.0		0.1	0.0	0.0	0.0			0.06		0.0		0.2	0.2					0.16	
12-80/B2	0.2		0.0		0.0	0.0			0.03		0.0		0.03		0.1	0.0			0.02	
12-80/C2	0.0		0.0		0.0	0.0			0.00		0.0		0.0		0.0	0.0			0.00	
12-80/B3	0.0		0.2	0.2	0.0				0.16		0.0		0.0	1.1	0.0				0.51	
12-80/C3	2.9								2.88	0.14	0.0								0.00	0.13
12°40'																				
12-80-B4	0.0			0.1	0.0	0.0			0.05		0.0		0.01	0.0	0.0				0.01	
12-80/C4	0.0		0.0	0.6		0.0			0.32		0.0		0.0		0.0	0.0			0.00	
12-80/B5	0.0			0.0					0.00		0.0		0.0						0.00	
12-80/C5	0.0		0.0	0.0				0.0	0.00		0.0		0.0	0.1				0.0	0.04	
12-80/B6	0.0		0.0	0.0					0.00		0.0		0.0	0.0					0.00	
12-80/C6	0.6	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.10	0.09	0.0	0.004	0.02	0.1	0.0	0.0	0.0	0.0	0.01	0.01
13°10'																				
13-80/B1	0.0		0.0						0.00		0.0		0.4						0.31	
13-80/C1	0.0	0.01	0.1	0.1	0.0	0.0	0.0	0.0	0.02		0.0	0.05	0.04	0.1	0.01	0.0	0.01	0.0	0.02	
13-80/D1	0.0								0.00		0.0								0.00	
13-80/B2	0.1		0.2			0.0			0.12		0.0		0.1			0.0			0.09	
13-80/C2	0.0	0.0	0.1		0.0		0.0	0.1	0.02		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.00	
13-80/C3		0.0	0.0		0.0		0.0	0.5	0.12	0.03		0.0	0.0		0.1		0.0	0.0	0.01	0.03

Table III B. (Continued)

13°40'	13-80/B4				0.0	0.0	1.9	0.0	0.78					0.0	0.0	0.0	0.0	0.00			
	13-80/C4					0.0		0.0	0.00						0.0	0.0	0.0	0.00			
	13-80/B5		0.0		0.0	0.0			0.00					0.5	0.0			0.02			
	13-80/C5			0.2	0.0	0.0			0.05		0.0		0.01	0.0	0.0			0.01			
	13-80/B6	0.0		0.1					0.18		0.0		0.0					0.00			
	13-80/C6		0.0	0.4		0.0			0.14	0.20		0.0	0.01		0.0			0.01	0.01		
14°10'	14-80/A1							0.2	0.20									0.0	0.00		
	14-80/B1	1.2	0.07	0.0		0.0		0.0	0.33		0.0	0.07	0.0		0.2			0.0	0.08		
	14-80/A2	0.0							0.00		0.0							0.0	0.00		
	14-80/B2	1.0	0.2	0.0		0.2	0.0	0.0	0.12		0.0	0.07	0.0		0.0	0.0		0.0	0.01		
	14-80/B3	0.0	0.07	0.0		0.5	0.0	0.0	0.14		0.0	0.0	0.2		0.0	0.0		0.0	0.02		
	14-80/C3							0.0	0.00	0.17								0.0	0.00		
14°40'	14-80/B4		0.0	0.0					0.00				0.0	0.0					0.00		
	14-80/C4							0.0	0.00									0.0	0.00		
	14-80/A5		0.0						0.00				0.0						0.00		
	14-80/B5		0.0	0.5					0.13				0.0	0.0					0.00		
	14-80/C5							0.0	0.00									0.0	0.00		
	14-80/A6		0.5						0.48				0.0						0.00		
	14-80/B6		0.0						0.00	0.06			0.0						0.00		
15°10'	15-80/B1	0.2							0.18		0.0								0.00		
	15-80/B2	0.0							0.00		0.0								0.00		
	15-80/C3		0.0						0.00	0.11		0.0							0.00		
15°40'	15-80/C4		0.0						0.00				0.0						0.00		
	15-80/D4		0.0						0.00				0.0						0.00		
	15-80/E4		0.2						0.22				0.0						0.00		
	15-80/F4		0.0						0.00	0.09			0.0						0.00		
All Latds./Areas		0.5	0.1	0.1	0.1	0.1	0.0	0.2	0.03	0.12	0.12	0.0	0.03	0.04	0.1	0.03	0.0	0.01	0.0	0.03	0.03

Table III B. (Continued)

Latitude/Areas	K. OTHERS								L. ALL FISH											
	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.	1973	1974	1975	1976	1977	1978	1979	1980	All years Area	Lat.
10°40'																				
10-79/F6					14.2				14.25	14.25					32.7				32.73	32.73
11°10'																				
11-79/F1					5.9				5.87						32.3				32.27	
11-79/F2				62.4	2.6				45.82					119.3	25.5				93.43	
11-79/F3				61.4					61.38					146.4					146.43	
11-80/A3		94.8							94.83	50.96	112.9								112.83	105.84
11°40'																				
11-79/F4		19.1		63.8					38.28		65.8			76.5					70.23	
11-80/A4		103.0							103.00		124.2								124.20	
11-79/F5	156.5	0.2		10.0					118.66	182.4	50.3			15.0					149.22	
11-80/A5		53.5							53.49		173.8								173.83	
11-79/F6	57.7	0.1		7.5	2.0				30.33	125.4	28.8			7.5	28.0				76.46	
11-80/A6	31.6	0.0							29.50	82.51	74.5	0.0							69.48	122.05
12°10'																				
12-80/A1	78.4		53.1		21.3	61.0			58.81	116.2		127.1			83.0	75.1			106.80	
12-80/B1			3.5			33.1			16.16			25.7				65.1			42.57	
12-80/A2	27.6		24.5	2.5	5.1				19.98		35.6			37.5	54.0				56.80	
12-80/B2	104.4		50.3		5.6	47.4			56.78	137.8		124.8			61.6	69.4			102.52	
12-80/C2	47.6		6.3			45.3			40.68		67.5					106.4			89.94	
12-80/B3	219.0		72.0	21.7	0.0				70.47	383.3		201.4	124.4		55.5				190.67	
12-80/C3	105.3								105.24	52.55	236.3								236.25	114.56
12°40'																				
12-80/B4	408.0			22.4	3.0	16.8			30.03	700.0			84.3	168.0	33.5				93.41	
12-80/C4	89.1		82.4	16.3		63.2			43.06	146.7		122.4	205.9		88.0				163.41	
12-80/B5	1.0		0.0	48.6					42.91	9.5			123.3						109.68	
12-80/C5	0.6		90.9	39.2				4.0	41.38	35.8		134.0	60.3				37.0		72.11	
12-80/B6	0.0		18.4	25.5					17.39	10.3		35.9	34.6						30.79	
12-80/C6	110.7	28.8	28.4	37.9	8.3	26.2	8.4	2.6	34.83	35.39	187.1	90.6	104.5	71.7	8.3	62.1	48.8	28.1	84.00	87.50
13°10'																				
13-80/B1	3.1		2.4						2.54	35.6		28.7							30.39	
13-80/C1	1.9	28.9	29.3	68.8	3.0	13.8	15.1	6.0	22.33	30.0	72.1	86.3	191.7	44.2	50.7	52.5	40.3		72.51	
13-80/D1	25.0								25.00	40.0									40.00	
13-80/B2	13.5		79.2			36.9			61.09	49.5		163.9			36.9				126.10	
13-80/C2	4.9	10.3	28.8		5.9		25.4	8.2	11.65	9.8	52.7	167.1		40.0		61.5	66.9		72.91	
13-80/C3		15.3	229.6		3.6		17.3	10.7	30.78	22.77	44.5	443.0		59.2		65.6	66.5		93.95	75.13

Table III B. (Continued)

13°40'	13-80/B4				0.0	96.0	20.7	16.8	59.81						13.3	112.1	93.5	65.5	100.51		
	13-80/C4					91.6		28.0	60.78							122.4		114.8	118.74		
	13-80/B5		54.8		0.0	139.3			78.40						15.5	167.5			162.46		
	13-80/C5		70.9		30.3	77.7			70.20						190.0	109.5			176.77		
	13-80/B6	105.0	45.6						47.25										162.60		
	13-80/C6		73.4	0.0		59.2			64.03	63.61		212.0							175.04		
14°10'	14-80/A1							11.8	11.76										72.2		
	14-80/B1	185.5	128.3	91.0		11.2		45.0	95.16		254.6	165.2	185.2		134.1				197.0		
	14-80/A2		67.1						67.14		132.5								132.57		
	14-80/B2	127.1	154.0	83.8		33.6	79.8		48.8	75.21	197.9	181.5	222.2		254.1	130.0			202.2		
	14-80/B3	349.8	157.9	57.6		25.9	242.0		52.9	114.02	372.9	200.9	170.1		246.1	260.0			192.1		
	14-80/C3							8.5	8.50	86.64									75.0		
14°40'	14-80/B4		175.4	61.4					142.80				188.0	175.2							
	14-80/C4							4.8	4.75										94.8		
	14-80/A5		78.4						78.40				101.1						101.07		
	14-80/B5		65.7	123.4					81.40				297.6	306.9					141.80		
	14-80/C5							8.8	8.80										95.2		
	14-80/A6		161.2						161.15				183.0						182.99		
	14-80/B6		144.6						144.57	103.46			199.2						199.16		
15°10'	15-80/B1	113.9							113.90		195.2								195.22		
	15-80/B2	140.4							140.41		171.0								171.03		
	15-80/C3		20.0						20.00	115.04		24.4							24.29		
15°40'	15-80/C4		153.4						153.38				190.6						190.63		
	15-80/D4		90.2						90.23				127.8						127.80		
	15-80/E4		183.6						183.56				236.9						236.88		
	15-80/F4		184.8						184.85	157.03			225.1						225.09		
All Latds./Areas		112.2	72.9	54.9	46.1	15.4	61.6	14.6	15.83	49.80	49.80	168.0	115.2	148.8	123.0	132.2	93.7	55.8	80.2	115.66	115.66

Table III B. (Continued)

Latitude/Area	M. EFFORT										All years Area Lat.		
	1973	1974	1975	1976	1977	1978	1979	1980	Area	Lat.			
10°40'	10-79/F6											11.58	11.58
11°10'	11-79/F1											7.50	
	11-79/F2											28.91	
	11-79/F3											21.41	
11°40'	11-80/A3		6.00									6.00	63.82
	11-79/F4			9.33		7.08						16.41	
	11-80/A4			5.00		2.00						5.00	
	11-79/F5		54.75	15.66		2.00						72.41	
12°10'	11-80/A5			8.75								8.75	
	11-79/F6			8.41		2.00						23.41	
	11-80/A6			0.66								9.83	135.81
	12-80/A1		9.08		15.32		3.00					37.65	
12°40'	12-80/B1			2.25								17.50	
	12-80/A2			18.33		2.00						31.99	
	12-80/B2			13.50		7.50						87.57	
	12-80/C2			9.00								27.33	
12°40'	12-80/B3			18.50		25.09		2.00				54.59	
	12-80/C3		8.00									8.00	264.63
	12-80/B4		1.00		35.34		1.00					43.34	
13°10'	12-80/C4		7.50		1.25		22.50					41.58	
	12-80/B5		4.00				29.58					33.58	
	12-80/C5			12.00	14.00		24.67					54.67	
	12-80/B6		3.00		8.00		5.50			4.00		16.50	
13°10'	12-80/C6		102.50		74.15		122.42		4.00			682.04	871.71
	13-80/B1		7.75		24.50							32.25	
	13-80/C1		11.50		130.14		120.60		131.47			1084.82	
	13-80/D1		2.00									2.00	
13°40'	13-80/B2		11.00		37.66							55.16	
	13-80/C2		10.25		19.99		8.50		7.00			161.98	
	13-80/C3			16.08					5.50			101.49	1437.70
	13-80/B4							1.50				84.48	
14°10'	13-80/C4				26.25							101.39	
	13-80/B5				66.47				2.00			41.00	
	13-80/C5				35.91				4.00			85.30	
	13-80/B6								4.00			36.91	
14°10'	13-80/C6		1.00		87.81							111.63	460.71
	14-80/A1												
	14-80/B1		35.57		13.66		38.83		39.42			25.33	
	14-80/A2		7.00									131.48	
14°40'	14-80/B2		10.75		61.14		42.65					7.00	
	14-80/B3		13.75		71.65		16.08		100.49			70.16	
	14-80/C3								44.50			38.09	
	14-80/B4											190.07	706.38
15°10'	14-80/C4				23.75		9.50					4.00	
	14-80/A4											33.25	
	14-80/A5				29.07				4.00			4.00	
	14-80/B5				23.16		8.66					29.07	
15°40'	14-80/C5											31.82	
	14-80/A6				6.23				2.50			2.50	
	14-80/B6				9.58							6.23	
	15-80/B1		31.08									9.58	116.45
15°40'	15-80/B2		14.50									14.50	
	15-80/C3				3.50							3.50	49.08
	15-80/C4											8.00	
All Lands./Areas												10.25	
												18.25	
												8.25	44.75
	422.23	704.01	751.24	441.10	386.96	406.48	419.02	631.58	4162.62			4162.62	

Table IV A. Depth-wise annual catch rate (kg/hr) in respect of ten major categories of fishes as obtained from the exploratory surveys of M. V. Meena Sitara during the years from 1973 to 1980 (Base: Madras)

Depth	A. SILVER BELLIES									B. PERCHES								
	1973	1974	1975	1976	1977	1978	1979	1980	All years	1973	1974	1975	1976	1977	1978	1979	1980	All years
0-10				0.0		0.0			0.00				2.4		0.0			2.08
-20	21.4	9.8	24.6	18.6	127.3	0.0	11.4	35.3	42.85		9.7	28.2	24.1	0.4	0.0	0.8	16.7	11.61
-30	16.2	15.0	34.7	45.6	126.9	23.3	9.8	19.7	50.55		7.6	38.2	41.5	2.1	5.7	0.7	4.8	20.95
-40	16.7	46.2	40.0	59.6	146.5	6.2	21.7	27.9	40.67		3.8	53.1	6.0	0.6	0.0	0.04	1.1	14.52
-50	26.5	27.0	28.8	22.8	49.5	27.8	23.7	20.9	27.83		3.2	19.8	0.0	0.2	0.6	0.06	0.7	3.56
-60	11.0	49.7	14.3	10.6	94.4	23.8	19.0	28.2	31.88		0.2	0.1	0.0	0.01	0.05	0.0	0.0	0.05
-70		21.9							21.89		11.7							11.68
-80					115.0				115.00					0.0				0.00
All Depths	17.5	31.5	31.0	38.2	111.5	22.5	20.0	28.2	37.85		3.7	32.1	24.9	1.0	1.0	0.1	2.8	9.32
	C. RAYS & SKATES									D. JEW FISHES								
0-10				41.3		0.0			35.25				0.0					0.00
-20	8.7	2.2	3.3	2.9	6.3	0.6	9.0	13.2	6.14	14.1			8.4	2.4		0.0	37.8	8.96
-30	4.0	2.9	3.6	9.1	12.1	8.0	9.9	11.4	8.46	13.5			22.6	1.6		1.4	13.4	9.96
-40	8.0	0.3	6.4	11.5	3.2	7.6	0.5	1.6	4.84	35.4			9.5	5.6		0.0	2.5	5.98
-50	9.0		8.2	3.2	3.1	1.4	1.4	2.2	4.12	11.0			0.8	0.8		4.4	3.5	2.48
-60	8.8	2.5	3.2	0.9	1.7	3.3	1.3	2.3	3.45	13.7			0.0	0.0		8.0	0.0	3.83
-70		26.3							26.32									
-80					2.1				2.10					1.5				1.50
All Depths	7.5	3.1	5.3	9.2	6.9	3.9	2.1	3.7	5.44	15.5			13.9	1.6		4.6	7.1	5.80
	E. CARANGIDS									F. THREAD-FIN BREAMS								
0-10				7.1		0.0			6.00				0.0		0.0			0.00
-20		2.2	5.1	5.3	2.9	5.9	0.8	5.3	3.28	2.7	0.9	0.0	0.8	0.0	0.0	16.6	2.4	1.81
-30		5.3	5.6	5.8	4.3	4.5	0.1	4.5	4.41	1.5	1.9	2.2	0.5	0.2	0.0	11.7	5.6	1.35
-40			7.5	1.3	3.4	6.2	1.6	1.0	3.20	0.9	0.8	1.6	2.9	0.0	0.0	4.2	2.9	2.11
-50		2.7	6.7	2.2	0.5	0.5	6.7	0.4	2.73	2.6		5.4	4.6	0.2	0.04	8.0	1.6	3.22
-60			2.7	1.0	1.5	0.6	11.5	0.01	2.48	3.7	1.2	4.5	2.3	0.03	0.04	6.8	0.4	2.60
-70		4.7							4.74		0.2							0.21
-80					1.2				1.20					0.0				0.00
All Depths		2.6	5.9	4.4	2.9	1.6	7.0	1.2	3.21	2.5	1.6	2.8	1.8	0.1	0.03	7.5	2.0	2.29

Table IV A. (Continued)

G. LIZARD FISHES										H. SHARKS								
0-10				0.0	0.0	0.0	0.0	0.0	0.00				0.0					0.00
-20	0.8	0.4	0.0	1.3	0.0	0.0	0.0	0.0	0.42	1.7	0.2	0.3	0.0	2.5	0.0	0.4	0.2	0.94
-30	0.7	0.3	1.7	0.1	0.0	5.2	0.0	0.0	0.62	2.3	2.4	0.9	0.3	0.02	0.0	0.5	1.3	0.89
-40	2.5	1.5	1.8	0.0	0.0	0.0	0.6	1.7	1.30	0.5	2.0	0.6	0.5	0.4	0.0	0.7	0.3	0.61
-50	3.8	3.2	9.7	0.4	0.1	5.8	1.1	2.3	3.20	0.8	1.0	0.9	0.4	2.1	0.6	0.1	0.1	0.72
-60	8.7	3.8	16.3	0.8	0.0	5.8	2.3	1.3	4.88	1.1	0.7	0.3	0.3	0.7	0.4	0.5	0.3	0.60
-70		0.0							0.00		2.1							2.11
-80					0.0				0.00					0.0				0.00
All Depths	4.0	2.6	5.0	0.4	0.01	5.1	1.4	1.3	2.38	1.3	1.2	0.7	0.3	0.9	0.3	0.4	0.2	0.74
I. PRAWNS										J. LOBSTERS								
0-10				0.0					0.00				0.0					0.00
-20	0.2	0.1	0.01	0.1	0.1			0.2	0.09		0.0	0.01	0.02	0.03				0.01
-30	0.2	0.2	0.2	0.2	0.3			0.1	0.20		0.0	0.01	0.03	0.02				0.02
-40	0.0	0.02	0.2	0.0	0.8			0.01	0.10		0.1	0.02	0.04	0.3				0.03
-50	0.1	0.1	0.04	0.02	0.1			0.01	0.05		0.04	0.2	0.1	0.1				0.05
-60	0.2	0.1	0.0	0.0	0.0			0.0	0.05		0.02	0.2	0.03	0.0				0.02
-70		0.0							0.00		0.0							0.00
-80					0.0				0.00					0.0				0.00
All Depths	0.2	0.1	0.1	0.1	0.3			0.02	0.10		0.03	0.1	0.04	0.04				0.02
K. OTHERS										L. ALL FISH								
0-10				106.0		0.0			90.58				156.8		0.0			133.91
-20	130.8	109.8	66.1	36.5	23.2	153.7	14.1	35.1	64.17	180.3	135.3	127.6	102.0	165.1	165.1	53.3	146.1	140.28
-30	94.7	133.2	69.1	72.2	18.9	108.0	18.2	11.9	71.72	133.1	169.4	156.1	200.3	166.4	154.6	52.4	72.4	169.13
-40	26.6	84.8	86.7	26.6	13.9	110.5	15.8	7.6	42.08	90.5	146.0	197.9	174.7	131.4	141.4	45.1	49.5	115.44
-50	49.5	99.9	35.1	31.2	5.7	34.7	15.5	4.3	46.95	103.3	142.6	114.6	65.7	62.4	71.3	60.9	41.8	94.91
-60	91.8	11.1	17.0	13.3	3.8	35.9	16.7	1.8	29.60	139.1	84.9	58.8	29.3	102.1	69.8	66.1	28.1	79.44
-70		52.4							52.42		119.4							119.37
-80					50.0				50.0					169.8				169.8
All Depths	81.9	29.7	59.3	53.1	15.2	54.1	16.1	8.8	49.49	130.4	126.0	142.2	146.3	140.4	88.6	59.2	55.5	117.12
M. EFFORT																		
				0-10					10.25			1.75						12.00
				-20	85.88	58.23	78.50	80.50	101.50	9.00	24.75	59.42	497.78					
				-30	160.80	113.24	161.50	317.17	202.00	36.25	23.75	16.83	1031.54					
				-40	70.05	56.91	156.00	80.25	31.25	13.00	82.17	141.41	631.04					
				-50	134.37	330.63	139.75	100.92	63.30	49.73	132.15	169.58	1120.43					
				-60	195.50	213.00	70.75	65.65	110.50	139.16	172.99	90.75	1058.30					
				-70		9.50							9.50					
				-80					10.00				10.00					
				All depths	646.60	781.51	606.50	654.74	518.55	248.89	435.81	477.99	4370.59					

Table IV B. Depth-wise annual catch rate (kg/hr) in respect of ten major categories of fishes as obtained from the exploratory surveys of M. V. Meena Gaveshak during the years from 1973 to 1980 (Base: Madras)

Depth	A. SILVER BELLIES										B. PERCHES									
	1973	1974	1975	1976	1977	1978	1979	1980	All years	1973	1974	1975	1976	1977	1978	1979	1980	All years		
10-20	19.6	6.9	51.0	40.9	134.8	14.9	6.5	17.3	29.49	16.5	54.2	5.1	0.9	0.9	2.4	1.5	6.9	14.47		
-30	63.7	18.5	47.1	91.0	122.9	8.3	21.7	42.0	56.24	3.7	35.6	7.2	1.4	1.4	1.9	0.6	6.5	12.91		
-40	6.0	23.6	39.8	23.6	41.8	6.5	27.8	22.0	26.86	1.0	23.8	3.5	0.2	0.2	1.8	0.0	1.6	7.67		
-50	38.0	49.7	38.3	51.1	27.8	15.3	16.7	26.6	33.34	0.9	16.1	1.3	0.0	0.0	0.2	0.3	1.7	2.63		
-60	20.0	64.4		4.4	66.6	17.9	13.0	17.3	24.21	0.0		1.9	0.1	0.1	3.3	0.1	0.01	0.18		
70-80		0.0							0.00									2.10		
-90		16.4							16.39									3.01		
-100	0.0	13.1							14.90									0.30		
120-130		100.0							100.00									5.00		
All Depths	27.7	25.4	44.6	51.2	99.5	13.0	16.1	26.6	36.75	6.4	33.0	4.0	0.9	0.9	1.5	0.3	3.3	8.22		

Depth	C. RAYS & SKATES										D. JEW FISHES									
	1973	1974	1975	1976	1977	1978	1979	1980	All years	1973	1974	1975	1976	1977	1978	1979	1980	All years		
10-20	10.0	4.8	7.8	8.9	14.4	12.1	22.3	14.2	9.79	5.8		0.0	1.0	1.0	30.6	24.8	4.99			
-30	11.9	2.9	6.1	8.2	17.4	8.9	3.4	18.3	9.61	4.1		2.9	1.4	1.4	3.2	49.6	6.76			
-40	2.0	0.8	3.5	4.2	7.2	11.8	0.0	4.7	3.85	1.9		5.1	0.0	0.0	0.0	7.4	2.43			
-50	7.9	2.9	1.8	3.3	2.1	8.5	1.9	2.7	3.46	5.0		0.2	0.0	0.0	3.9	4.0	1.80			
-60	8.4	2.1		0.0	1.0	3.3	0.6	2.5	0.00	8.1		0.0	0.0	0.0	0.4	0.4	1.81			
70-80		0.0							0.00									0.00		
-90		0.0							0.00									0.00		
-100	21.8	0.0							12.00	0.0								0.00		
120-130		0.0							0.00									0.00		
All Depths	8.9	3.0	5.1	5.2	12.3	9.1	2.9	8.1	6.46	5.5		2.6	0.9	0.9	4.1	17.2	3.95			

Depth	E. CARANGIDS										F. THREAD-FIN BREAMS									
	1973	1974	1975	1976	1977	1978	1979	1980	All years	1973	1974	1975	1976	1977	1978	1979	1980	All years		
10-20	6.3	6.3	6.9	6.2	3.2	5.5	0.3	2.9	4.33	2.5	1.8	2.2	2.6	0.0	0.0	4.6	1.7	1.72		
-30	4.3	4.3	6.7	8.4	4.3	4.2	0.2	6.3	5.16	2.8	2.1	1.9	5.7	0.02	0.0	0.0	6.6	2.38		
-40	1.5	1.5	3.2	3.2	1.2	2.9	0.0	1.4	2.19	4.7	2.1	1.7	2.5	0.03	0.0	0.03	2.5	1.98		
-50	0.9	0.9	4.0	4.5	0.3	2.2	14.5	1.1	3.78	5.1	1.9	1.2	3.2	0.0	0.0	6.7	2.8	2.81		
-60	0.9	0.9		4.7	0.3	2.4	13.9	0.3	5.09	14.6	1.3		1.9	0.05	9.1	6.0	5.3	6.96		
70-80		2.1							2.10									0.00		
-90		2.2							2.19									0.00		
-100	0.7	0.7							0.30	0.0								0.00		
120-130	4.0	4.0							4.00									0.00		
All Depths	3.5	3.5	5.4	5.3	2.9	3.7	9.9	2.5	4.14	6.1	1.9	1.8	3.6	0.02	1.5	4.7	3.7	2.83		

Table IV B. (Continued)

	G. LIZARD FISHES										H. SHARKS							
10-20	0.5	0.0	0.1	0.0		2.4	0.0	0.5	0.49	1.2	1.2	0.3	0.3	0.1	0.8	0.2	0.2	0.73
-30	2.6	0.0	0.8	3.4		0.2	0.0	0.5	0.82	3.2	0.7	0.3	1.0	0.1	0.4	0.1	0.4	0.59
-40	3.8	3.5	7.1	0.9		0.0	4.9	3.3	3.64	0.6	0.0	1.0	7.0	0.1	0.5	1.2	0.5	1.86
-50	3.1	3.6	8.3	1.6		7.1	4.2	4.2	3.82	0.7	0.3	0.2	0.7	0.2	0.0	0.1	0.5	0.34
-60	18.4	1.0		0.0		7.1	3.0	3.7	6.42	0.6	0.6		0.8	0.2	0.4	0.2	0.3	0.37
70-80		0.0							0.00		0.0							0.00
-90		0.0							0.00		0.8							0.82
-100	0.0	0.0							0.00	0.0	0.9							0.40
120-130		0.0							0.00		0.0							0.00
All Depths	5.9	1.4	3.4	1.8		2.9	2.8	2.6	2.59	1.2	0.6	0.5	3.0	0.1	0.4	0.2	0.4	0.77
	I. PRAWNS					J. LOBSTERS												
10-20	0.8	0.1	0.1	0.3	0.02		1.9	0.1	0.27		0.04	0.02	0.04	0.02		0.0		0.02
-30	0.5	0.1	0.1	0.2	0.2		0.1	0.0	0.13		0.03	0.03	0.2	0.04		0.05		0.04
-40	0.0	0.04	0.1	0.03	0.0		0.0	0.01	0.03		0.04	0.1	0.1	0.08		0.0		0.06
-50	0.4	0.0	0.0	0.2	0.0		0.0	0.03	0.06		0.05	0.03	0.04	0.0		0.0		0.02
-60	0.6	0.0		0.0	0.0		0.0	0.0	0.12		0.01		0.2	0.01		0.0		0.03
70-80		0.0							0.00		0.0							0.00
-90		0.0							0.00		0.0							0.00
-100	0.0	0.0							0.00		0.0							0.00
120-130		0.0							0.00		0.0							0.00
All Depths	0.5	0.1	0.1	0.1	0.1		0.2	0.03	0.12		0.03	0.04	0.1	0.03		0.01		0.03
	K. OTHERS								L. ALL FISH									
10-20	152.7	113.5	68.9	33.5	11.3	94.1	20.6	17.5	85.95	192.9	151.1	191.5	97.8	165.7	132.2	88.5	86.1	152.25
-30	125.1	102.7	57.2	75.6	23.2	88.4	4.7	42.4	62.17	213.8	135.1	155.9	203.8	170.9	112.3	34.0	172.5	155.91
-40	31.4	24.2	48.1	30.9	10.1	35.0	6.4	7.7	28.55	50.2	56.7	128.3	81.0	60.8	58.4	40.3	51.1	79.12
-50	61.0	28.1	43.3	37.5	3.6	22.3	16.1	7.1	25.00	121.1	88.5	113.1	103.6	33.9	51.9	64.4	50.4	77.06
-60	116.2	33.0		27.4	2.0	30.2	17.8	2.1	37.32	186.9	103.2		41.3	70.3	72.8	55.0	32.0	85.42
70-80		105.9							105.90		110.1							110.10
-90		40.4							40.44		62.9							62.85
-100	46.4	47.3							46.80	68.2	83.1							74.90
120-130		36.5							36.50		145.5							145.50
All Depths	112.2	72.9	54.9	46.1	15.4	61.6	14.6	15.8	49.80	168.0	115.2	148.8	123.0	132.2	93.7	55.8	80.2	115.66
	M. EFFORT																	
10-20		140.32	216.60	129.13	22.75	63.75	114.73	31.25	88.66	807.19								
-30		68.83	170.41	317.34	132.50	198.16	101.27	62.77	139.00	1190.28								
-40		45.50	110.31	205.20	150.93	38.42	39.40	33.33	134.91	758.00								
-50		58.08	143.54	99.57	115.92	46.66	83.96	125.58	192.92	866.23								
-60		104.00	47.74		19.00	39.97	67.12	166.09	76.09	520.01								
70-80			5.25							5.25								
-90			3.66							3.66								
-100		5.50	4.50							10.00								
120-130			2.00							2.00								
All Depths		422.23	704.01	751.24	441.10	386.96	406.48	419.02	631.58	4162.62								

Table V. Latitude-wise estimated potential yields (in kg) in respect of ten major categories of fishes. (Figures in brackets are potential yields in kg. per sq. Km.)

Categories	10°40' off Velan- ganni	11°10' off Poom- puhar	11°40' off Porto- novo/ Cuddalore	12°10' off Markka- anam	12°40' off Maha- balipuram	13°10' off Madras/ Ennore	13°10' off Pulicat	14°10' off Krishna- mpatnam	14°40' off Iskapally	15°10' off Ramaya- patnam	15°40' off Nizam- patnam	All Latitudes
Silver Bellies	28754 (88.04)	488107 (373.63)	576737 (294.31)	499378 (218.43)	565402 (288.53)	609013 (310.78)	706224 (360.39)	1235124 (630.29)	938687 (410.59)	580515 (355.49)	84916 (65.00)	6312857 (333.26)
Perches	0 (0.00)	42522 (32.55)	270886 (138.24)	373189 (163.24)	24783 (12.65)	21709 (11.08)	605939 (309.22)	311615 (159.02)	202172 (88.43)	12167 (7.45)	189044 (144.71)	2054026 (108.43)
Rays & Skates	16586 (50.78)	87478 (66.96)	155807 (79.51)	207775 (90.88)	71660 (36.57)	55714 (28.43)	192502 (98.24)	215556 (110.00)	158913 (69.51)	53473 (32.75)	55330 (42.35)	1270794 (67.09)
Jew Fishes	5539 (16.96)	1793 (1.37)	30162 (15.39)	63431 (27.75)	61670 (31.47)	52064 (26.57)	168487 (85.98)	186162 (95.00)	65672 (28.73)	326280 (199.80)	0 (0.00)	961260 (50.75)
Carangids	6916 (21.18)	53793 (41.18)	19788 (10.10)	90327 (39.51)	26704 (13.63)	67241 (34.31)	105473 (53.82)	99709 (50.88)	106913 (46.76)	14729 (9.02)	88503 (67.75)	680096 (35.90)
Thread-fin Breems	0 (0.00)	20621 (15.78)	30739 (15.69)	53569 (23.43)	61478 (31.37)	61670 (31.47)	22670 (11.57)	38424 (19.61)	26224 (11.47)	26096 (15.98)	35222 (26.96)	376713 (19.89)
Lizard Fishes	0 (0.00)	0 (0.00)	16906 (8.63)	26672 (11.67)	89911 (45.88)	72044 (36.76)	7300 (3.73)	6148 (3.14)	7172 (3.14)	0 (0.00)	0 (0.00)	226153 (11.94)
Sharks	1377 (4.22)	3202 (2.45)	8837 (4.51)	27793 (12.16)	21901 (11.18)	7493 (3.82)	9414 (4.80)	17867 (9.12)	38327 (16.76)	24655 (15.10)	4227 (3.24)	165093 (8.72)
Prawns	0 (0.00)	4227 (3.24)	10374 (5.29)	4483 (1.96)	1152 (0.59)	576 (0.29)	2882 (1.47)	4034 (2.06)	2914 (1.27)	6244 (3.82)	2049 (1.57)	38935 (2.06)
Lobsters	0 (0.00)	1153 (0.88)	576 (0.29)	2241 (0.98)	192 (0.10)	576 (0.29)	192 (0.10)	576 (0.29)	672 (0.29)	0 (0.00)	0 (0.00)	6178 (0.33)
Others	45628 (139.71)	652688 (499.61)	1451833 (740.88)	1615581 (706.67)	682210 (348.14)	379624 (193.73)	1408607 (718.82)	1569793 (801.08)	2101511 (919.22)	2594389 (1588.73)	1926684 (1474.80)	14428548 (761.69)
All Fish	104800 (320.89)	1355584 (1037.65)	2572645 (1312.84)	2964439 (1296.68)	1607063 (820.11)	1327724 (677.53)	3229690 (1648.14)	3685008 (1880.49)	3649177 (1596.17)	3638548 (2228.14)	2385975 (1826.38)	26520653 (1400.06)
Area Explored in sq. km.	* 326.60	1306.40	1959.60	2286.20	1959.60	1959.60	1959.60	1959.60	2286.20	1633.00	1306.40	18942.80