

# ANNEX I. RECORDS OF FISHING STATIONS

**PROJECT STATION: 171**  
**LONG E 3830**  
 DATE: 9/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1655  
 start stop duration  
 TIME :20:00:00 20:15:00 15 (min) Purpose code: 3  
 LOG :8034.00 8034.10 0.10 Area code : 1  
 FDEPTH: 440 440 GearCond.code: 8  
 BDEPTH: 440 440 Validity code: 9  
 Towing dir: 210° Wire out:1400 m Speed: 1 kn\*10  
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
N O C A T C H	0.00		
Total			

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Centrolophus moluccensis	27.00	8	48.37
MYCTOPHIDAE	13.00	416	23.39
Aristeus antennatus	2.40	242	4.32
Haliporoides triarthrus	2.15	128	3.69
Benthodesmus tenuis	1.85		3.33
Chlorophthalmus punctatus	1.75	27	3.15
Yarella corythaecola	1.45	146	2.61
Neosomobrops annectens	1.40	5	2.52
C R A B S	1.00		1.80
Aristaeomorpha foliacea	0.70	11	1.26
Heterocaropus woodrassoni	0.65		1.17
Plesionika martia	0.65	112	1.17
Etmopterus virens	0.45	4	0.81
Halacocephalus laevis	0.35	24	0.63
Chascanopsetta lugubris	0.34	2	0.61
Peristedion adeni	0.30	12	0.54
COGNHIDAE	0.25		0.45
Nephropsis stewarti	0.01	1	0.02
Total	55.50		100.04

**PROJECT STATION: 166**  
**LONG E 3847**  
 DATE: 11/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1722  
 start stop duration  
 TIME :09:45:00 09:17:00 32 (min) Purpose code: 3  
 LOG :8255.70 8257.40 1.70 Area code : 1  
 FDEPTH: 420 424 GearCond.code: 8  
 BDEPTH: 430 424 Validity code: 9  
 Towing dir: 250° Wire out:1250 m Speed: 2 kn\*10  
 Sorted: 9 Kg Total catch: CATCH/HOUR: 27.19

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Haliporoides triarthrus	13.13	776	48.29
Chlorophthalmus punctatus	1.00	56	11.03
Neosomobrops andamanicus	1.88	64	9.91
Halacocephalus laevis	1.50	82	5.52
Lepidichthys sp	1.50	4	5.52
Chascanopsetta lugubris	1.50	19	5.52
Aristaeomorpha foliacea	0.75	4	2.76
Neosomobrops annectens	0.56	4	2.06
Diaphus elucens	0.38	4	1.40
Chaunax pictus	0.38	4	1.40
Peristedion adeni	0.38	9	1.40
Coelorinchus parallelus	0.38	4	1.40
Heterocaropus woodrassoni	0.38	8	1.40
Plesionika martia	0.38	315	1.40
Aristeus antennatus	0.38	30	1.40
POLYCHAELIDAE	0.00	2	
Total	27.23		100.17

**PROJECT STATION: 172**  
**LONG E 3827**  
 DATE: 11/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1733  
 start stop duration  
 TIME :19:45:00 20:45:00 60 (min) Purpose code: 3  
 LOG :8307.30 8309.40 2.20 Area code : 1  
 FDEPTH: 303 300 GearCond.code: 8  
 BDEPTH: 303 300 Validity code: 9  
 Towing dir: 240° Wire out: 900 m Speed: 3 kn\*10  
 Sorted: 35 Kg Total catch: CATCH/HOUR: 177.07

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Squatina africana	36.00		20.33
Chlorophthalmus punctatus	22.00	360	18.07
Centrolophus moluccensis	27.00	7	15.25
MYCTOPHIDAE	10.00	396	5.65
Aristeus antennatus	8.60	384	4.86
Haliporoides triarthrus	5.20	212	2.94
Aristaeomorpha foliacea	4.80	198	2.71
Plesionika martia	3.92	352	2.21
Heterocaropus woodrassoni	3.88	288	2.19
Coelorinchus sp	3.80	128	2.03
Peristedion weberi	3.00	9	1.69
Otolithes ruber	3.00	5	1.69
Benthodesmus tenuis	2.92	112	1.65
Lingopus japonicus	1.70	1	0.56
Heterocaropus andamanicus	1.64	12	0.93
Lepidichthys sp	1.60	1	0.90
Etmopterus virens	1.56	28	0.89
R A Y S	1.45	9	0.82
Penaeopsis balssi	1.36	108	0.77
S H R I M P S	0.80	80	0.45
Miscellaneous fishes	0.35	5	0.20
Peristedion adeni	0.20	8	0.11
Scyllarus batesi	0.12	12	0.07
Nephropsis stewarti	0.04	4	0.02
Total	134.74		87.38

**PROJECT STATION: 169**  
**LONG E 3845**  
 DATE: 11/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1715  
 start stop duration  
 TIME :11:33:00 12:03:00 30 (min) Purpose code: 3  
 LOG :8270.70 8271.20 0.85 Area code : 1  
 FDEPTH: 504 563 GearCond.code: 8  
 BDEPTH: 504 563 Validity code: 9  
 Towing dir: 230° Wire out:1600 m Speed: 2 kn\*10  
 Sorted: 19 Kg Total catch: CATCH/HOUR: 39.16

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
S H A R K S	18.00	6	45.97
Plesionika martia	5.30	164	13.53
Miscellaneous fishes	4.80		12.26
C R A B S	2.80	66	7.15
Haliporoides triarthrus	2.44	80	6.23
Halacocephalus laevis	2.20	34	5.62
Coelorinchus parallelus	1.80	18	4.60
Peristedion weberi	1.04	2	2.66
Aristeus antennatus	0.80	30	2.03
Heterocaropus andamanicus	0.06	2	0.15
Neosomobrops woodrassoni	0.06	6	0.15
Nephropsis stewarti	0.04	2	0.10
Heterocaropus tricarinatus	0.04	2	0.10
Aristaeomorpha foliacea	0.02	2	0.05
Total	39.16		100.00

**PROJECT STATION: 173**  
**LONG E 3825**  
 DATE: 11/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1733  
 start stop duration  
 TIME :21:00:00 22:30:00 60 (min) Purpose code: 3  
 LOG :8313.50 8316.00 2.80 Area code : 1  
 FDEPTH: 188 206 GearCond.code: 8  
 BDEPTH: 188 206 Validity code: 9  
 Towing dir: 220° Wire out: 700 m Speed: 3 kn\*10  
 Sorted: 27 Kg Total catch: CATCH/HOUR: 233.14

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Centrolophus moluccensis	186.00	25	79.78
Coelorinchus sp	9.63	693	4.13
Saurida undosqueis	6.74	37	2.89
Aristeus antennatus	6.13	10	2.63
Neosomobrops annectens	5.95	70	2.55
Otolithes ruber	2.45	7	1.05
Diaphus elucens	2.45	112	1.05
Aristaeomorpha foliacea	2.29	161	0.98
Chlorophthalmus punctatus	1.75	37	0.75
Benthodesmus tenuis	1.66	102	0.71
C E P H A L O P C D A	1.07	9	0.46
Argentina sp	0.96	81	0.41
Peristedion adeni	0.93	37	0.40
CARIDEA	0.88	35	0.38
Etmopterus virens	0.88	65	0.38
Eppinula orientalis	0.70	2	0.30
Chasmodon capensis	0.53	4	0.23
Paenes squamiceps	0.49	4	0.21
Plesionika martia	0.44	25	0.19
Penaeopsis balssi	0.35	7	0.15
Heterocaropus woodrassoni	0.28	23	0.15
Solenocera sp	0.18	28	0.08
R A Y S	0.14	4	0.06
Synegrops japonicus	0.09	2	0.04
Cynoglossus lingua	0.04	2	0.02
Scyllarus batesi	0.04	2	0.02
PANDALIDAE	0.02	4	0.01
Total	233.14		100.01

**PROJECT STATION: 170**  
**LONG E 3827**  
 DATE: 11/11/90 GEAR TYPE: BT No:1 POSITION: Lat 1734  
 start stop duration  
 TIME :15:55:00 16:55:00 60 (min) Purpose code: 3  
 LOG :8293.90 8297.60 3.00 Area code : 1  
 FDEPTH: 507 491 GearCond.code: 8  
 BDEPTH: 507 491 Validity code: 9  
 Towing dir: 60° Wire out:1500 m Speed: 3 kn\*10  
 Sorted: 28 Kg Total catch: CATCH/HOUR: 159.50

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Centrolophus moluccensis	104.10	31	65.27
Miscellaneous fishes	12.02	365	7.54
Haliporoides triarthrus	6.00	252	3.76
Aristeus antennatus	5.42	312	3.40
POLYCHAELIDAE	5.40	26	3.39
Aristaeomorpha foliacea	4.30	162	2.70
Halacocephalus laevis	4.00	84	2.51
MYCTOPHIDAE	4.00	160	2.51
Yarella corythaecola	2.44	170	1.53
CARIDEA	2.30	82	1.44
Paenes squamiceps	1.98	84	1.24
Plesionika martia	1.96	752	1.23
Plesionika martia	1.24	32	0.78
Coelorinchus parallelus	1.00	8	0.63
Synegrops japonicus	1.00	10	0.63
C R A B S	0.70	4	0.44
Neopinnula orientalis	0.50	4	0.25
Benthodesmus tenuis	0.40	4	0.25
Gonorynchus gonorynchus	0.38	4	0.24
Peristedion adeni	0.20	2	0.13
Peristedion weberi	0.20	2	0.13
Total	159.54		100.06

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 174  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1742 Long E 3012  
 TIME : 01:10:00 02:10:00 60 (min) Purpose code: J  
 LOG : 0339.40 0341.70 2.00 Area code : 1  
 FDEPTH: 514 520 GearCond.code:  
 BDEPTH: 514 520 Validity code:  
 Towing dir: 250° Wire out: 1500 m Speed: 3 kn\*10  
 Sorted: 39 Kg Total catch: 194.00 CATCH/HOUR: 194.00

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 177  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1755 Long E 3749  
 TIME : 16:00:00 17:00:00 60 (min) Purpose code: J  
 LOG : 0410.60 0421.30 3.10 Area code : 1  
 FDEPTH: 567 579 GearCond.code:  
 BDEPTH: 567 579 Validity code:  
 Towing dir: 220° Wire out: 1500 m Speed: 3 kn\*10  
 Sorted: 25 Kg Total catch: 294.80 CATCH/HOUR: 294.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Centroprorus moluccensis	65.00	78	33.51	15
Aristeus antennatus	23.44	404	12.08	10
Haliargyreus tricinctus	19.02	428	10.27	17
MYCTOPHIDAE	16.03	340	8.25	16
Plesionectes edwardsianus	13.04	180	7.13	17
Penaeus sp.	13.32	332	6.87	20
C R A B S	8.20	2	4.23	
Demersal fish mixture	7.04	0	3.63	
Aristaeomorpha foliacea	6.23	136	3.20	20
C R A B S	5.44	2	2.80	
Benthocheilus sp.	4.32	52	2.23	
Halaecephalus laevis	3.80	120	1.96	
Metastomatopus andamanicus	2.00	20	1.03	
R A Y S	1.63	0	0.87	
Plesionika martia	0.80	64	0.41	
Gonorynchus gonorynchus	0.80	4	0.41	
Chlorocephalus punctatus	0.60	12	0.31	
Gonorynchus sp.	0.52	4	0.27	
Peristodion adenii	0.40	16	0.21	
Peristodion webberi	0.40	16	0.21	
GONADII	0.40	20	0.21	
Neopinnula orientalis	0.40	4	0.21	
Benthocheilus sp.	0.12	4	0.06	
Nephropsis stewarti	0.08	4	0.04	
Siganus luridus	0.08	6	0.04	
Total	194.00		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Centroprorus moluccensis	172.00	51	50.34	26
Benthocheilus sp.	35.00	288	11.87	
Aristeus antennatus	14.16	455	4.70	27
Haliargyreus tricinctus	11.60	395	3.93	24
Synagrops japonicus	9.30	115	3.15	
MYCTOPHIDAE	8.40	205	2.85	
Benthocheilus tenuis	7.00	140	2.37	
Coelotrichus sp.	7.00	45	2.37	
Aristaeomorpha foliacea	6.05	220	1.92	25
Halaecephalus laevis	5.00	95	1.70	
Acanthephyra eximia	2.65	90	0.90	
C R A B S	2.50	35	0.85	
GONADII	2.05	20	0.70	
Plesionectes edwardsianus	1.60	25	0.54	
Loligo sp.	1.30	20	0.44	
POLYCHAETIDAE	1.25	50	0.42	
Plesionika martia	1.00	155	0.34	
Nephropsis stewarti	0.75	25	0.26	
GONADII	0.70	25	0.24	
Heterocarpus tridactylus	0.60	30	0.20	
GLYPTOCARANGIDAE	0.35	70	0.12	
Total	294.80		99.98	

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 175  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1757 Long E 3744  
 TIME : 0339.40 0394.70 3.70 (min) Purpose code: J  
 LOG : 0300 0311 Area code : 1  
 FDEPTH: 300 311 GearCond.code:  
 BDEPTH: 300 311 Validity code:  
 Towing dir: 55° Wire out: 900 m Speed: 4 kn\*10  
 Sorted: 26 Kg Total catch: 102.72 CATCH/HOUR: 102.72

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 178  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1750 Long E 3747  
 TIME : 18:12:00 19:15:00 60 (min) Purpose code: J  
 LOG : 0426.50 0429.30 3.00 Area code : 1  
 FDEPTH: 660 661 GearCond.code:  
 BDEPTH: 660 661 Validity code:  
 Towing dir: 225° Wire out: 1750 m Speed: 3 kn\*10  
 Sorted: 22 Kg Total catch: 92.60 CATCH/HOUR: 92.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Aristeus antennatus	21.96	240	21.38	
Promethichthys promethus	20.80	364	20.25	
Benthocheilus tenuis	17.92	112	17.45	
Demersal fish mixture	12.40	12	12.15	
Trichlarus lepturus	6.16	92	6.00	
Peristodion adenii	6.16	20	6.00	
Otolithes ruber	4.00	24	4.75	
Neocombropterus andersoni	3.80	40	3.70	
Sepia sp.	2.14	16	2.30	
C R A B S	1.96	4	1.91	
Chamaeleon capensis	1.40	92	1.36	
Chlorocephalus punctatus	1.60	24	0.97	
Loligo sp.	0.96	12	0.93	
Argentina sp.	0.80	40	0.78	
Total	102.72		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Centroprorus moluccensis	36.70	12	39.63	
Coelotrichus sp.	15.63	195	16.88	
Halaecephalus laevis	12.25	12	13.23	
Benthocheilus tenuis	5.63	105	6.08	
Aristeus antennatus	5.05	203	5.45	28
Halaecephalus laevis	3.95	55	4.27	
COMBRIDAE	2.50	33	2.70	
Acanthephyra eximia	2.11	150	2.30	
Haliargyreus tricinctus	1.75	53	1.89	29
Doenia profundorum	1.40	3	1.51	
Loligo sp.	1.30	40	1.40	
Stereomastix sculpta	1.13	40	1.22	
Glyptocarangon auranthica	1.03	35	1.11	
Glyptocarangon punctata	0.88	128	0.95	
Nephropsis stewarti	0.40	10	0.43	
Plesionectes edwardsianus	0.33	3	0.36	
C R A B S	0.15	0	0.16	
CARDINA	0.15	45	0.16	
Aristaeomorpha foliacea	0.00	8	0.09	
Heterocarpus tridactylus	0.05	5	0.05	
Solenocera sp.	0.03	5	0.03	
Total	92.60		99.99	

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 176  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1750 Long E 3744  
 TIME : 14:06:00 14:43:00 37 (min) Purpose code: J  
 LOG : 0409.20 0410.90 1.60 Area code : 1  
 FDEPTH: 410 395 GearCond.code:  
 BDEPTH: 410 395 Validity code:  
 Towing dir: 50° Wire out: 1250 m Speed: 3 kn\*10  
 Sorted: 35 Kg Total catch: 91.40 CATCH/HOUR: 151.59

R/V DR. FRITJOF HANSEN PROJECT: M3 CATCH DATA PROJECT STATION: 179  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1804 Long E 3739  
 TIME : 21:01:00 21:47:00 46 (min) Purpose code: J  
 LOG : 0435.60 0441.60 2.30 Area code : 1  
 FDEPTH: 443 420 GearCond.code:  
 BDEPTH: 443 420 Validity code:  
 Towing dir: 230° Wire out: 1250 m Speed: 3 kn\*10  
 Sorted: 12 Kg Total catch: 49.57 CATCH/HOUR: 63.35

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Centroprorus moluccensis	37.30	10	24.61	
Chlorocephalus punctatus	34.48	357	22.75	
Halaecephalus laevis	11.19	10	7.30	
Loligo sp.	0.43	26	2.96	
Penaeus setiferus	7.95	305	5.24	
MYCTOPHIDAE	7.26	616	4.39	
Sepia sp.	6.49	68	4.20	
Promethichthys promethus	6.16	169	4.06	
Penaeus setiferus	6.16	78	4.06	
Haliargyreus tricinctus	4.54	238	2.78	
Otolithes ruber	4.22	10	2.78	
Synagrops japonicus	3.83	71	2.57	
Heterocarpus woodmasoni	2.31	133	1.54	
Glyptocarangon punctata	2.17	6	1.43	
Neocombropterus andersoni	2.17	6	1.43	
Gauria undosquidus	1.73	26	1.17	
Merluccius sp.	1.43	3	0.94	
Haliargyreus andamanicus	0.97	16	0.64	
GONADII	0.84	13	0.55	
Peristodion adenii	0.39	13	0.26	
Chamaeleon capensis	0.36	32	0.24	
Argentina sp.	0.32	32	0.21	
Synagrops japonicus	0.29	26	0.19	
Chamaeleon setiferus	0.29	3	0.19	
C R A B S	0.10	0	0.07	
Plesionika martia	0.06	13	0.04	
Total	151.58		99.97	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haliargyreus tricinctus	12.44	755	19.64	31
Centroprorus moluccensis	12.33	17	19.46	33
Aristeus antennatus	9.39	599	14.82	32
Diapausa elucea	7.03	250	12.36	
Halaecephalus laevis	5.97	10	9.27	
Plesionika martia	2.93	677	4.63	
Chlorocephalus punctatus	1.96	12	2.09	
Aristaeomorpha foliacea	1.68	59	2.65	30
Benthocheilus tenuis	1.57	12	2.40	
Doenia profundorum	1.50	5	2.37	
Haliargyreus sp.	1.24	3	1.96	
C R A B S	1.17	20	1.85	
Benthocheilus tenuis	1.17	20	1.85	
Heterocarpus woodmasoni	0.98	70	1.55	
Gonorynchus gonorynchus	0.39	4	0.52	
Coelotrichus sp.	0.31	12	0.49	
Lepidodactylus sp.	0.16	4	0.25	
Cynoglossus lingua	0.16	23	0.25	
Peristodion webberi	0.16	16	0.25	
COMBRIDAE	0.08	4	0.13	
Peristodion adenii	0.04	4	0.06	
Total	63.36		100.03	

PROJECT STATION: 180  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1800 Long E 3735  
 start stop duration  
 TIME : 02:45:00 23:45:00 60 (min) Purpose code: 3  
 LOG : 8445.50 8447.20 2.90 Area code : 1  
 FDEPTH: 345 345 GearCond.code:  
 BDEPTH: 345 345 Validity code:  
 Towing dir: 230° Wire out: m Speed: 3 kn\*10  
 Sorted: 30 Kg Total catch: 60.30 CATCH/HOUR: 60.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
MYCTOPHIDAE	17.70	576	29.35	
Chlorophthalmus punctatus	11.46	100	19.00	
Neosombrops annectens	7.70	50	14.77	
Miscellaneous fishes	4.64		7.69	
Saurida undosquamis	3.30	18	5.47	
Penaeopsis balssi	3.10	58	5.14	
Aristeus antennatus	2.10	72	3.48	34
Aristaeomorpha foliacea	1.66	72	2.75	35
Sepia sp	1.44	10	2.39	
Chascanopsetta lugubris	0.98	2	1.63	
Halargyreus triarthrus	0.98	36	1.59	36
Promethichthys promethus	0.85	12	1.43	
Heterocarpus woodmasoni	0.84	44	1.39	
Hydrolagus sp.	0.56	2	0.93	
Malacocephalus laevis	0.55	25	0.93	
Centropristis moluccensis	0.50	4	0.83	
Metanephrops andamanicus	0.50	6	0.83	
Solenogera sp	0.44	26	0.73	
Ariomma indica	0.36	6	0.60	
Champsodon capensis	0.32	20	0.53	
C R A B S	0.30		0.50	
Penaeus squidiceps	0.16	2	0.27	
Plesionika martia	0.14	36	0.23	
Peristedion adeni	0.08	4	0.13	
Argentina sp	0.06	4	0.10	
Yarella corythaeola	0.04	2	0.07	
Chaunax pictus	0.02	2	0.03	
Hoplostethus stewarti	0.02	2	0.03	
Total	60.30		100.00	

PROJECT STATION: 183  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1816 Long E 3728  
 start stop duration  
 TIME : 08:31:00 09:31:00 60 (min) Purpose code: 3  
 LOG : 8487.30 8486.10 3.20 Area code : 1  
 FDEPTH: 311 315 GearCond.code:  
 BDEPTH: 311 315 Validity code:  
 Towing dir: 210° Wire out: 500 m Speed: 3 kn\*10  
 Sorted: 27 Kg Total catch: 177.22 CATCH/HOUR: 177.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Promethichthys promethus	77.40	888	43.67	
Ariomma sp	32.10	468	18.11	
Saurida undosquamis	14.10	72	7.96	
Argentinea sp	10.00	1	5.64	
Trichurus lepturus	7.06	72	3.96	
Neosombrops annectens	6.48	102	3.66	
Sepia sp	6.00	66	3.39	42
Loligo sp	6.00	66	3.39	44
Discosiphon hamus	5.40	24	3.05	
Champsodon capensis	3.86	396	2.05	
Chlorophthalmus punctatus	3.33	162	1.86	
Metanephrops andamanicus	2.00	18	1.13	43
Synagrops japonicus	1.10	18	0.67	
Etmopterus virens	0.90	42	0.51	
Argentina sp	0.60	56	0.34	
Chelidonichthys sp	0.36	6	0.20	
Total	177.22		100.01	

PROJECT STATION: 184  
 DATE: 12/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1819 Long E 3727  
 start stop duration  
 TIME : 04:09:00 04:49:00 29 (min) Purpose code: 3  
 LOG : 8489.10 8490.30 1.20 Area code : 1  
 FDEPTH: 372 376 GearCond.code:  
 BDEPTH: 372 376 Validity code:  
 Towing dir: 210° Wire out: 1000 m Speed: 3 kn\*10  
 Sorted: 316 Kg Total catch: 16.37 CATCH/HOUR: 33.87

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Neosombrops annectens	10.97	131	32.39	
Saurida undosquamis	6.04	31	17.83	
Promethichthys promethus	4.30	54	12.70	
Synagrops japonicus	3.41	52	10.07	
Loligo sp	3.31	37	9.77	
Etmopterus virens	1.66	31	4.90	
Ariomma sp	1.24	21	3.66	
Miscellaneous fishes	0.93		2.75	
Chlorophthalmus punctatus	0.72	8	2.13	
Sepia sp	0.62	12	1.83	
Chaunax pictus	0.52	2	1.54	
Diplopus siccans	0.18	2	0.30	
Argentina sp	0.04	4	0.12	
Total	33.86		99.99	

PROJECT STATION: 185  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1820 Long E 3727  
 start stop duration  
 TIME : 11:37:00 12:27:00 50 (min) Purpose code: 3  
 LOG : 8494.50 8497.30 2.80 Area code : 1  
 FDEPTH: 450 488 GearCond.code:  
 BDEPTH: 450 488 Validity code:  
 Towing dir: 205° Wire out: 1250 m Speed: 3 kn\*10  
 Sorted: 30 Kg Total catch: 89.40 CATCH/HOUR: 89.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
MYCTOPHIDAE	17.16	576	19.19	
Neosombrops annectens	12.96	96	14.48	
Halargyreus triarthrus	10.50	360	11.74	45
Eppinula orientalis	9.03	138	10.10	
Synagrops japonicus	6.90	90	7.72	
Penaeus squidiceps	6.45	81	7.21	
Loligo sp	5.13	24	5.74	
Miscellaneous fishes	4.20		4.70	
S H A R K S	3.54	70	3.96	
Plesionika martia	3.30	4290	3.69	
Chlorophthalmus punctatus	1.86	39	2.08	
Champsodon capensis	1.77	159	1.99	
Sepia sp	1.44	15	1.61	
Etmopterus virens	1.26	51	1.41	
Rexea promethus	1.20	39	1.34	
Malacocephalus laevis	1.20	27	1.34	
Benthodesmus tenuis	0.42	6	0.47	
Chascanopsetta lugubris	0.26	3	0.29	
Peristedion adeni	0.36	12	0.40	
Heterocarpus woodmasoni	0.15	9	0.17	
Yarella corythaeola	0.15	6	0.17	
Penaeopsis balssi	0.09	9	0.10	
Aristaeomorpha foliacea	0.09	6	0.10	
Total	89.50		100.05	

PROJECT STATION: 182  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1819 Long E 3726  
 start stop duration  
 TIME : 05:45:00 07:45:00 60 (min) Purpose code: 3  
 LOG : 8476.20 8475.70 2.80 Area code : 1  
 FDEPTH: 245 256 GearCond.code:  
 BDEPTH: 245 256 Validity code:  
 Towing dir: 30° Wire out: 800 m Speed: 3 kn\*10  
 Sorted: 33 Kg Total catch: 297.54 CATCH/HOUR: 297.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ariomma indica	140.85	1557	47.34	
Ariomma sp	40.50	747	16.64	
Neosombrops annectens	25.20	207	8.47	
Sepia sp	16.20	324	5.44	41
Loligo sp	9.90	117	3.33	40
Miscellaneous fishes	5.90		3.33	
Sphyræna sp	9.01	72	3.30	
Promethichthys promethus	9.72	171	3.27	
Chaunax pictus	9.30	9	3.02	
Peristedion adeni	4.50	9	1.51	
Argentina sp	4.50	171	1.51	
Saurida undosquamis	3.60	27	1.21	
Pomadourus sp	1.89	9	0.64	
R A Y S	1.80	9	0.60	
Trichurus lepturus	0.83	9	0.28	
Champsodon capensis	0.54	45	0.18	
Total	297.54		100.00	

PROJECT STATION: 186  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1820 Long E 3727  
 start stop duration  
 TIME : 13:25:00 14:35:00 60 (min) Purpose code: 3  
 LOG : 8501.80 8504.40 3.10 Area code : 1  
 FDEPTH: 373 379 GearCond.code:  
 BDEPTH: 373 379 Validity code:  
 Towing dir: 25° Wire out: 1100 m Speed: 3 kn\*10  
 Sorted: 28 Kg Total catch: 84.12 CATCH/HOUR: 84.12

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
MYCTOPHIDAE	12.18	4059	14.48	
Neosombrops annectens	11.76	174	13.99	
Miscellaneous fishes	9.60	183	11.41	
Loligo sp	7.05	90	8.38	
Sepia sp	5.69	90	7.55	
Saurida undosquamis	5.70	42	6.78	
Halargyreus triarthrus	5.84	29	6.70	
Synagrops japonicus	5.25	156	6.60	46
Penaeopsis balssi	4.93	63	5.74	
Champsodon capensis	3.79	249	4.52	47
Metanephrops andamanicus	2.19	147	2.60	
Rexea promethus	2.04	18	2.43	
Chlorophthalmus punctatus	2.04	15	2.43	
Etmopterus virens	1.74	39	2.07	
Malacocephalus laevis	1.35	9	1.60	
Benthodesmus tenuis	0.90	27	1.07	
Eppinula orientalis	0.60	6	0.82	
Argentina sp	0.57	51	0.68	
C R A B S	0.48	3	0.57	
Benthodesmus tenuis	0.18	6	0.21	
Chaunax pictus	0.09	3	0.11	
Peristedion adeni	0.06	3	0.07	
Total	84.12		100.00	

PROJECT STATION: 187  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1826 Long E 3728  
 TIME start stop duration  
 LOG :0530.00 0533.80 3.80 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 638 634 GearCond.code:  
 BDEPTH: 630 634 Validity code:  
 Towing dir: 200° Wire out: 1700 m Speed: 3 kn\*10  
 Sorted: 19 Kg Total catch: 83.20 CATCH/HOUR: 83.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Coelorrinchus sp	21.80	26.20	
Polyastme corythaeola	13.08	15.72	
Malacocephalus laevis	10.00	15.63	
Miscellaneous fishes	10.16	12.21	
Centroprorus moluccensis	7.60	9.13	
Lophius piscatorius	3.00	4.57	
Peristichion adeni	2.03	2.40	
Deania profundorum	1.80	2.16	
Halipteroideus triarthrus	1.72	2.07	48
Hydrolegus africanus	1.60	1.92	
Stereostias sculpus	1.40	1.68	
Heterocarpus tricarlinatus	1.20	1.44	
Loligo sp	1.20	1.44	
Acanthephyra eximia	1.12	1.35	
Plesionephus edwardsianus	0.52	0.63	
Aristeus antennatus	0.24	0.29	
Plesionika martia	0.20	0.24	
Metanephrops andamanicus	0.16	0.19	
CONGRIDAE	0.16	0.19	
Nephropsis stewarti	0.12	0.14	
Glyptocaranus neglecta	0.12	0.14	
Peristichion weberi	0.08	0.10	
Glyptocaranus australica	0.04	0.05	
Champsodon capensis	0.04	0.05	
Diaphus taangi	0.04	0.05	
Total	83.20	99.55	

PROJECT STATION: 190  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1841 Long E 3719  
 TIME start stop duration  
 LOG :0550.00 0555.00 5.00 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 540 537 GearCond.code:  
 BDEPTH: 540 537 Validity code:  
 Towing dir: 200° Wire out: 1500 m Speed: 3 kn\*10  
 Sorted: 24 Kg Total catch: 72.63 CATCH/HOUR: 72.63

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Halipteroideus triarthrus	14.82	20.40	51
Chlorophthalmus punctatus	14.19	19.54	
Coelorrinchus sp	12.54	17.27	
Malacocephalus laevis	9.27	12.76	
Miscellaneous fishes	7.20	9.91	
Centroprorus moluccensis	2.02	2.78	
Aristeus antennatus	2.16	2.97	53
MYCTOPHIDAE	2.07	2.85	
Benthodesmus tenuis	1.56	2.15	
Plesionika martia	1.35	1.86	
Nephropsis stewarti	1.29	1.78	52
R A Y S	1.05	1.45	
Sepia sp	0.57	0.78	
Synagrops japonicus	0.54	0.74	
Neoscombrops annectens	0.39	0.54	
C R A B S	0.24	0.33	
Peristichion adeni	0.18	0.25	
Aristeomorpha foliacea	0.15	0.21	
Champsodon capensis	0.06	0.08	
Heterocarpus tricarlinatus	0.06	0.08	
Heterocarpus woodmasoni	0.03	0.04	
Total	72.54	99.87	

PROJECT STATION: 188  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1840 Long E 3718  
 TIME start stop duration  
 LOG :20:45:00 21:45:00 60 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 353 351 GearCond.code:  
 BDEPTH: 353 351 Validity code:  
 Towing dir: 200° Wire out: 1300 m Speed: 3 kn\*10  
 Sorted: 22 Kg Total catch: 65.79 CATCH/HOUR: 65.79

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Miscellaneous fishes	16.80	25.54	
Halipteroideus triarthrus	11.70	17.78	45
Saurida undosquaris	11.40	17.32	
Chlorophthalmus punctatus	6.60	10.03	
Diaphus sp	3.05	4.64	
Neoscombrops annectens	2.04	3.10	
Sepia sp	1.50	2.28	
MYCTOPHIDAE	0.90	1.37	
C R A B S	0.90	1.37	
Antigonia capros	0.90	1.37	
Chelidonichthys sp	0.90	1.37	
SCORPAENIDAE	0.90	1.37	
Loligo sp	0.75	1.14	
CONGRIDAE	0.60	0.91	
OPHIIDAE	0.60	0.91	
Eridacnis silvanus	0.60	0.91	
Coelorrinchus sp	0.60	0.91	
Cheunax pictus	0.30	0.45	
Argentina sp	0.09	0.14	
Total	65.79	100.01	

PROJECT STATION: 191  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1844 Long E 3720  
 TIME start stop duration  
 LOG :03:07:00 03:30:00 23 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 630 627 GearCond.code:  
 BDEPTH: 630 627 Validity code:  
 Towing dir: 200° Wire out: 1700 m Speed: 3 kn\*10  
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
N O C A T C H	0.00		
Total			

PROJECT STATION: 192  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1855 Long E 3713  
 TIME start stop duration  
 LOG :09:40:00 10:40:00 60 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 544 543 GearCond.code:  
 BDEPTH: 544 543 Validity code:  
 Towing dir: 35° Wire out: 1600 m Speed: 3 kn\*10  
 Sorted: 27 Kg Total catch: 94.94 CATCH/HOUR: 94.94

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Diaphus sp	19.99	21.06	
Centroprorus moluccensis	15.96	16.81	
Chlorophthalmus punctatus	10.05	10.59	
Halipteroideus triarthrus	9.35	9.85	54
Miscellaneous fishes	6.76	7.12	
Coelorrinchus sp	6.34	6.68	
Malacocephalus laevis	5.25	5.53	
Synagrops japonicus	4.38	4.61	
Neoscombrops annectens	2.80	2.95	
Ectoporus virens	2.63	2.77	
Benthodesmus tenuis	1.93	2.03	
Cetopus sp	1.75	1.84	
Centroprorus uvato	1.75	1.84	
Plesionika martia	1.12	1.18	
Sepia sp	1.05	1.11	
Heterocarpus tricarlinatus	0.80	0.85	
Heterocarpus woodmasoni	0.70	0.74	
Acropinnula orientalis	0.70	0.74	
Chascanopsetta sp	0.25	0.27	
Stereostias sculpus	0.21	0.22	
Loligo sp	0.21	0.22	
Champsodon capensis	0.21	0.22	
Cynoglossus lingua	0.21	0.22	
FOLYCHAEIDAE	0.11	0.12	
Metanephrops andamanicus	0.11	0.12	
Peristichion weberi	0.07	0.07	
MYCTOPHIDAE	0.07	0.07	
Total	94.94	100.01	

PROJECT STATION: 189  
 DATE: 13/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1842 Long E 3718  
 TIME start stop duration  
 LOG :0556.30 0559.30 3.00 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 437 454 GearCond.code:  
 BDEPTH: 437 454 Validity code:  
 Towing dir: 35° Wire out: 1250 m Speed: 3 kn\*10  
 Sorted: 26 Kg Total catch: 55.72 CATCH/HOUR: 55.72

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Halipteroideus triarthrus	16.92	30.34	50
Malacocephalus laevis	7.73	13.82	
Aristeus antennatus	7.40	13.28	
Miscellaneous fishes	6.34	11.38	
Coelorrinchus sp	5.22	9.37	
Chlorophthalmus punctatus	5.12	9.19	
MYCTOPHIDAE	1.22	2.19	
Centroprorus moluccensis	1.16	2.08	
Benthodesmus tenuis	0.98	1.76	
Neoscombrops annectens	0.56	1.01	
R A Y S	0.26	0.45	
Sepia sp	0.20	0.36	
Cheunax pictus	0.20	0.36	
Peristichion adeni	0.24	0.43	
Plesionika martia	0.16	0.29	
Yarella corythaeola	0.16	0.29	
Saurida undosquaris	0.16	0.29	
Chascanopsetta sp	0.14	0.25	
C R A B S	0.10	0.18	
Heterocarpus tricarlinatus	0.06	0.11	
Nephropsis stewarti	0.04	0.07	
Penaeopsis balssi	0.04	0.07	
Total	55.72	100.02	

PROJECT STATION: 193  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1855 Long E 3715  
 TIME start stop duration  
 LOG :0611.10 0614.20 2.80 (min) Purpose code: 3 Area code: 1  
 FDEPTH: 643 635 GearCond.code:  
 BDEPTH: 643 635 Validity code:  
 Towing dir: 218° Wire out: 1750 m Speed: 3 kn\*10  
 Sorted: 23 Kg Total catch: 104.22 CATCH/HOUR: 104.22

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Synagrops japonicus	22.59	21.68	
Coelorrinchus sp	20.07	19.26	
Malacocephalus laevis	10.71	10.28	
Miscellaneous fishes	9.81	9.41	
Aristeus antennatus	9.00	8.64	55
Halipteroideus triarthrus	8.46	8.12	56
Loligo sp	4.50	4.32	
Centroprorus uvato	2.43	2.33	
Merluccius capensis	2.21	2.12	
C R A B S	2.16	2.07	
Chascanopsetta sp	2.03	1.95	
Peristichion weberi	1.67	1.60	
Plesionika martia	1.56	1.52	
Aristeomorpha foliacea	1.44	1.38	57
Heterocarpus tricarlinatus	1.13	1.08	
MYCTOPHIDAE	1.13	1.08	
Yarella corythaeola	0.81	0.78	
Benthodesmus tenuis	0.63	0.60	
Neolamprolaima sp	0.45	0.43	
Neoscombrops annectens	0.41	0.39	
Rexia prometheoides	0.36	0.35	
Chlorophthalmus punctatus	0.36	0.35	
Neopinnula orientalis	0.27	0.26	
Nephropsis stewarti	0.05	0.05	
Total	104.26	100.05	

PROJECT STATION: 194  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1856  
 start stop duration  
 TIME 14:05:00 15:05:00 60 (min) Purpose code: 3  
 LOG 8619.50 8622.40 2.60 Area code: 1  
 FDEPTH: 447 439 GearCond. code:  
 BDEPTH: 447 439 Validity code:  
 Towing dir: 200° Wire out: 1250 m Speed: 3 kn/10

PROJECT STATION: 197  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1900  
 start stop duration  
 TIME 20:11:00 21:11:00 60 (min) Purpose code: 3  
 LOG 8641.10 8644.10 3.00 Area code: 1  
 FDEPTH: 260 250 GearCond. code:  
 BDEPTH: 260 250 Validity code:  
 Towing dir: 210° Wire out: 900 m Speed: 3 kn/10

Sorted: 24 Kg Total catch: 144.30 CATCH/HOUR: 144.30

Sorted: 33 Kg Total catch: 68.62 CATCH/HOUR: 68.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Neoplinaula orientalis	32.40	444	22.45	
Haliporoides triarthrus	30.00	588	20.79	58
MYCTOPHIDAE	13.90	796	5.63	
Ocotopus sp	11.40	12	2.90	
Penaeopsis balssi	7.80	600	5.41	60
Neoscombrops annectens	6.84	66	4.74	
Rexea prometheoides	5.64	54	3.91	
Centroporus uyato	4.98	12	3.45	
Halacoccephalus laevis	4.08	30	2.49	
Sepia sp	3.90	48	2.70	
Loligo sp	3.48	12	2.41	
Etiopsetrus virens	2.88	42	2.00	
Argentina sp	2.64	96	1.83	
Chlorophthalmus punctatus	2.22	48	1.54	
Miscellaneous fishes	2.16	25	1.50	
Menolepidichthys sp.	1.92	48	1.33	
Chascanopsetta sp	1.20	6	0.83	
Heterocarpus woodmasoni	1.20	48	0.83	
Bantheresmus tenuis	1.08	36	0.75	
Coclorincus sp	1.08	18	0.75	
Chamaedon capensis	0.84	126	0.58	
Chaurax pictus	0.72	6	0.50	
Yarella corythaeola	0.66	18	0.46	
Metastrophus andamanicus	0.60	12	0.42	59
Synaegrops japonicus	0.36	6	0.25	
Peristodion adeni	0.18	6	0.12	
C R A B S	0.12	6	0.08	
Total	124.28		99.59	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Epimphelus nigritus	16.40	2	23.90	
Saurida undosquams	8.78	66	12.80	
Paracitharus macrolepis	8.10	8	11.80	
Neoscombrops annectens	6.00	59	8.74	
Haliporoides triarthrus	5.10	156	7.43	61
TORPEDINIDAE	4.95	35	7.21	
Diaphus elucens	4.88	126	7.11	
Miscellaneous fishes	3.23		4.71	
Polinurus delagooe	1.97	2	2.87	
Scorpaena scrofa	1.88	2	2.74	
Rexea prometheoides	1.13	20	1.65	
Peristodion adeni	0.93	5	1.36	
Coclorincus sp	0.90	39	1.31	
Argentina sp	0.75	6	1.09	
Penaeopsis balssi	0.72	98	1.05	62
Xenolepidichthys dagleishii	0.53	30	0.77	
Solenocera sp	0.35	32	0.51	
COCCOPEPHALIDAE	0.35	6	0.51	
Cynoglossus sp	0.33	14	0.48	
Chascanopsetta lugubris	0.30	6	0.44	
Loligo sp	0.29	2	0.42	
Ibacus novemdentatus	0.12	3	0.17	
Aristeus antennatus	0.11	5	0.16	
Heterocarpus woodmasoni	0.11	21	0.16	
Sepia sp	0.11	5	0.16	
TRICLIDAE	0.11	5	0.16	
CARIDEA	0.09	5	0.13	
Chaurax pictus	0.08	3	0.12	
CONGRIDAE	0.06	2	0.09	
Ariopsis sp	0.05	3	0.07	
Peristodion adeni	0.02	2	0.03	
Antigonia caprus	0.02	2	0.03	
Scyllarus batesi	0.02	2	0.03	
Total	68.71		100.13	

PROJECT STATION: 195  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1858  
 start stop duration  
 TIME 16:02:00 17:02:00 60 (min) Purpose code: 3  
 LOG 8626.30 8628.90 3.90 Area code: 1  
 FDEPTH: 327 316 GearCond. code:  
 BDEPTH: 327 316 Validity code:  
 Towing dir: 200° Wire out: 1000 m Speed: 3 kn/10

PROJECT STATION: 198  
 DATE: 15/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1908  
 start stop duration  
 TIME 01:24:00 02:32:00 60 (min) Purpose code: 3  
 LOG 8663.00 8665.80 3.20 Area code: 1  
 FDEPTH: 274 277 GearCond. code:  
 BDEPTH: 274 277 Validity code:  
 Towing dir: 200° Wire out: 800 m Speed: 3 kn/10

Sorted: 91 Kg Total catch: 301.18 CATCH/HOUR: 301.18

Sorted: 227 Kg Total catch: 106.16 CATCH/HOUR: 106.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Saurida undosquams	74.70	711	24.80	
Neoscombrops annectens	67.24	539	22.29	
Brama caribbea	37.60	225	12.55	
Rexea prometheoides	32.58	414	10.82	
Argentina sp	31.50	1170	10.46	
Polinurus delagooe	13.06	10	4.24	
Loligo sp	12.79	99	4.24	
Miscellaneous fishes	7.52	25	2.53	
Thyristoides marleyi	7.50	1	2.49	
Chlorophthalmus punctatus	7.50	126	2.49	
Synaegrops japonicus	3.87	90	1.28	
MYCTOPHIDAE	2.52	269	0.84	
Chamaedon capensis	0.99	72	0.33	
Neoplinaula orientalis	0.72	5	0.24	
Sepia sp	0.54	18	0.18	
Total	301.12		99.98	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
MYCTOPHIDAE	21.24	2655	20.91	
Miscellaneous fishes	18.92		17.82	
Saurida undosquams	17.36	152	16.35	
Neoscombrops annectens	13.04	200	12.28	
Peristodion adeni	11.40	348	10.74	
Sepia sp	7.92	132	7.46	
Halacoccephalus laevis	4.05	236	3.77	
Argentina sp	3.92	216	3.69	
Cynoglossus lingua	1.40	36	1.32	
Loligo sp	1.20	8	1.13	
R A Y S	1.16	4	1.09	
Chaurax pictus	0.92	12	0.88	
Chlorophthalmus punctatus	0.64	36	0.60	
Heterocarpus tricarinatus	0.56	32	0.53	
Chamaedon capensis	0.40	20	0.38	
Rexea prometheoides	0.40	4	0.38	
Aristaeomorpha foliacea	0.36	32	0.34	63
S H A R S	0.32	4	0.30	
Penaeopsis balssi	0.28	8	0.26	64
Chascanopsetta sp	0.24	4	0.23	
Aristeus antennatus	0.20	8	0.19	
C R A B S	0.12	4	0.11	
Haliporoides triarthrus	0.12	4	0.11	
Heterocarpus woodmasoni	0.12	8	0.11	
Etiopsetrus virens	0.12	4	0.11	
Total	106.16		99.99	

PROJECT STATION: 196  
 DATE: 14/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1858  
 start stop duration  
 TIME 17:59:00 18:20:00 23 (min) Purpose code: 3  
 LOG 8634.10 8634.60 1.00 Area code: 1  
 FDEPTH: 216 207 GearCond. code:  
 BDEPTH: 216 207 Validity code:  
 Towing dir: 205° Wire out: 780 m Speed: 3 kn/10

PROJECT STATION: 199  
 DATE: 15/11/90 GEAR TYPE: BT No:1 POSITION: Lat S 1911  
 start stop duration  
 TIME 02:45:00 04:43:00 60 (min) Purpose code: 3  
 LOG 8672.20 8675.20 3.50 Area code: 1  
 FDEPTH: 304 335 GearCond. code:  
 BDEPTH: 304 335 Validity code:  
 Towing dir: 200° Wire out: 1150 m Speed: 3 kn/10

Sorted: 6 Kg Total catch: 6.20 CATCH/HOUR: 16.43

Sorted: 29 Kg Total catch: 122.80 CATCH/HOUR: 122.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rexea prometheoides	5.61	89	34.14	
Argentina sp	3.39	146	20.63	
Ibacus novemdentatus	2.48	23	15.09	
Loligo sp	1.57	138	9.56	
R A Y S	1.17	8	7.12	
Miscellaneous fishes	0.73	37	4.44	
Etiopsetrus tyfus	0.52	5	3.16	
Neoscombrops annectens	0.26	3	1.58	
C R A B S	0.26	16	1.58	
Ocotopus sp	0.26	3	1.58	
SCORPIONIDAE	0.16	3	0.97	
TRICLIDAE	0.03	3	0.19	
Total	16.44		100.03	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Neoscombrops annectens	36.40	392	29.64	
Saurida undosquams	25.40	232	21.60	
MYCTOPHIDAE	15.82	1552	12.64	
Miscellaneous fishes	13.48		10.98	
Sepia sp	8.36	60	6.81	
Polinurus delagooe	5.58	7	4.54	66
Halacoccephalus laevis	3.16	188	2.57	
Neoplinaula orientalis	2.88	28	2.35	
Etiopsetrus virens	2.40	128	1.95	
Loligo sp	1.80	12	1.47	
Argentina sp	1.52	68	1.24	
Centroporus uyato	1.16	8	0.94	
R A Y S	1.16	8	0.94	
Chaurax pictus	0.96	8	0.78	
Cynoglossus lingua	0.60	12	0.53	
Liniperus somniosus	0.34	1	0.28	
Peristodion adeni	0.32	16	0.26	
Penaeopsis balssi	0.24	100	0.20	65
Chascanopsetta sp	0.24	4	0.20	
Yarella corythaeola	0.12	8	0.10	
C R A B S	0.08		0.07	
Total	122.82		99.79	