254 255		, n	11 11	9-29.6 9-28.6	85-08.8 85-13.1 85-13.0 85-10.	16 14-17	5 336	9-29.8 9-28.9	14.4 85-11.8	30 14-47	3. 381	30	3.0	280	006	1	"	ည	D#	80	9 1018	0 31.0	4 27.6	Œ	-	3.7	
		11	ا مئیسم	18	3.1 85-7	12-16	255	Ŋ	.0 85-14.	12-30	253	30	3.0	280	200	.1	al "	B	3	€.3	1019	30.0	27.4	æ. 		56.4	<u> </u> 
253		.3	Sep. 20	4 9-30.6	8 85-13	10-59	171	.8 9-30	6 85-14.0	11-29	184	93	3.2	270	000	í	Normal	၁ ရ	3	m	1019	29.8	26.9	<b>3</b> E		57.1	
252		$\mu$	"	0 9-32.4		8-25	63	.3 9-32	Ľ	8-55	88	33	3,3	285	200	1	"	ည အ	w		1018	27.5	26.1	æ		0.83	
251		" "	"	9-40.0	85-17.5	16-28	62	9-41	85-18.7	16-58	56	30	3.3	320	200	1	"	ပ	MS	2	1016	26.0	25.7	Ξ		35.6	
250		n	11	9-36.9	85-14.9	15-20	29	9-38.1	85-16.1	15-50	70	30	3.3	315	200		"	ည	AS	2	1016	27.0	25.8	<b>3</b> E		55.6	
249		.2	Sep.19	9-34.6	85-12.7	14-22	63	9-35.6	85-14.2	14-52	99	30	3.4	310	200	1	Normai	ນ	NS.	2	1016	29.5	25.8	Œ		25.4	Started
248		2	Sep.13	10-03.8	85-49.0	8-50	92	10-05.3	85-49.8	9-20	76	30:	3.2	330	280		Normal	æ	AS.	гo	1016	26.9	28.9	Œ		14.2	ত্
247		"	"	10-23.2 10-26.2 10-03.8	. 4 85-59.0 85-59.3 86-01.9	15-35	101	10-27.8	86-01.9 85-49.8	16-05	102	30	3.2	×	300		"	ပ	75*	33	1013	28.7	28.8	×		13.8	LT.
246		"	"	10-23.2	35-59 3	14-20	2.8	8		14-50	88	30	3.3	z	300	1	"	Ü	NS.	2	1014	28.0	27.8	E		29.5	
245		"	"	10-20.3	5-59.0	13-20	88	10-22.0	85-59.0 85-59.3	13-50	98	30	3.4	z	300		"	D R	MS.	2	1014	29.0	27.9	3E		328.1	
244		11	" "	10-23.4	5-56.4 8	12-00	11	10-21.9	85-56.98	12-30	73	30	3.3	200	280	1	"	B C	AS	8	1015	30.0	8.72	Œ		24.9 3	
243		"	"	10-25.7	85-56.1 85-56	11-00 1	72		85-56.18	11-30	7.1	30	3.1	180	280	1	"	3 g	S	8	1016	29.6	-	<u>-</u>		2.9	
242		2	ij	10-28.5 1	-56.5 8	9-52	81	10-27.0 10-24.2	85-57.3 88	10-22	81	30	3.3	210	300	-		B C 1	ASS	2	1016	-	27.5	æ		3.4	
241		"	"		-56.2 85	8-54	;	10-30.1 10		9-24 10	83	30	3.4		300	1		ر ا	S		1016 1	27.3 2	27.2 2	<b>=</b>		5.0	
240		Ţ	Sep.12	(N) 10-37.8 10-30.9 10-31.9	58.0 85	-	17.	32.3 10	57.3 85	8-18 9-	88	30	-	25 18	300 30		"		SE		1015 10	25.6 2	27.1 2	_		7.2	
	: 14 15			37.8 10-	10.5 85-	46 7-48	8 87	(N) 10-39.4 10-32.3	(4) 86-10.0 85-57.3	j. 184						1		S						200		87.5 7	
239		7	Sep.11	(N) 10	-98 (A)	(LST) 15-46	(m) 208	(N) 10-	-98 (n)	ST) 16-16	(m) 208	(min) 30	ot) 3.2	20	(m) 600	~ (w)	Norma	U	NN	33	ab) 1014	°C) 27.0	("C) 27.6	×		(kg) 87	_
Series No. of Net		ea	ų.		of Start long (V) 86-10.5 85-58.0 85-56.2 85-56.5	1	1.3	lat.		Time of Finish (LST)	Depth of Finish (m)		speed (knot)	rection			Hau]		ction	ė	Atmosph. Pressure (mb)	Air Temperature (°C)	Surface WaterTemp ("C)	iterials	Current Direction		
Series N		Survey Area	Srvey Date	Position lat.	of Start	Time of Start	Depth of Start	Position	of Finish long	Time of F	Depth of	Jowing Time	Towing sp	Towing Direction	Length of Warp	Wing Spread	State of Haul	Weather	Wind Direction	Wind Force	Atmosph.	Air Tempe	Surface !	Bottom materials	Current 1	Total Catches	Remarks

Appendix Table-4

		Γ	4	77	0	Γ		ं	(4)				,,	1						1 1	<u></u>	2	တ			4	5		
	272	m	Sep. 24	9-48.1	85-33.0	7-37	81	0-64-0	5 85-33.3	7-54	76	17	3.5	338	300	,	"	ပ်	NN.	2	1018	27.2	28.9	34.		23.4	5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		
	27.1	"	"	9-43.4	85-27.0	7-22	100	9-44.4	85-28.5	7-52	100	8	3.4	300	300		n.	<b>3</b>	EKE	က	1017	0.72	27.3	. <b>.</b> .		1010.2			
	270	3	Sep. 23	9-43.2	85-27.0	3-03	101	9-44.3	85-28.3	3-33	101	೫	3.3	305	300	1 1 1	$\mu_{\gamma}$	၁ ရ	ΔS	2	1016	0.92	27.3	. ж		48.2		1 73 E 33	
	569	"	" "	9-43.4	85-27.0	23-10	100	9-44.4	85-28.2	23-40	100	30	3.2	310	300		$\boldsymbol{n}$	ပ် ရှ	SE	3	1017	8.92	2.72	H		41.1			
	268	"	"	9-44.0	85-27.7	19-07	100	9-43.8	85-26.3	19-37	88	30	3.0	100	300	-	$H_{\infty}$	BC	S	3	1017	27.0	27.1	<b>/1.</b>		9.73			
, 1988	267	"	"	9-44.0	85-27.8	15-12	86	9-43.1	85-26.7	15-42	103	30	3.1	130	300		11	3 g	S	7	1016	30.0	27.6	, K		132.0	The second of th	•	
u No.201	266	"	"	9-44.0	85-27.6	11-12	66	9-43.2	85-26.3	11-42	101	30	3.2	125	300	-	Й	B.C.	SE	3	1018	29.2	27.3	, H	\$4 8 E	1008.2			
Nisshinmaru	265	33	Sep.22	9-44.0	85-27.8	7-30	100	9-43.1	85-26.2	8-00	102	30	3.3	120	300	_	Normal	3 C	NNE	1	1018	27.5	26.9	<b>.</b>		1701.9	)ay-	night	survey
	264	"	"	9-47.2	85-33.6	16-26	104	9-47.8	85-35.1	16-56	105	30	3.3	295	300	1	n	ນ	i A	3	1017	28.0	27.4	M.		180.9	J]		
Research Survey by	263	"	"	9-45.0	85-29.8	15-16	106	9-46:0	85-31.1	15-46	105	8	3.1	305	300	ı	"	3 C	<b>5</b>	3	1018	29.0	27.6	N.		91.7			
	262	"	"	9-45.5	85-27.5	14-10	- 79	9-45.8	85-29.1	14-40	90	30	3.2	285	300		"	ВС	A	3	1018	29.3	27.8	N.		549.6			
of Trawling	261	"	"	9-44.1	85-22.9	12-57	99	9-45.4		13-27	67	8	3.4	310	280	ı	u	ည	AN	3	1019	30.0	8.72	×		17.7			
Data	260	"	"	9-42.4	85-24.9	11-32	103	9-43.2	(4) 85-11.5 85-19.4 85-19.4 85-23.8 85-26.2 85-24.3	12-02	101	30	3.2	300	300	ı	"	B င	NN	3	1020	31.0	27.8	W.		1502.7			
Recording	259	"	"	9-41.3		10-18	06	9-42.3	85-23.8	10-48	88	30	3.0	315	300	•	"	B C	WNW	2	1020	29.0	27.6	N.		3003.8			
	258	m	Sep.21	9-36.9	85-18.2 85-18.2 85-22.9	8-47	98	9-37.9	85-19.4	9-17	86	30	3.0	310	300	-	Norma]	B C	NN	2	1020	28.0	26.7	Т,		131.2 3			
	257	"	"	9-35.6	85-18.2	7-35	102	9-36.5	85-19.4	8-05	107	30	3.0	305	300	-	"	B.C.	N	2	1020	27.5	26.4	<b>H</b>		59.7			
	256	3	Sep.20	9-28.2	(W) 85-10.7	(LST) 15-55	427	9-28.0	35-11.5	(LST) 16-13	450	18	_	255	1000	•	Normal	B C	1	3	1018	29.5	27.6			0.1	rapped	in sea	ט
<b>r</b>	يه			8	3	(LSI	(E)	S	3	ST)	(H)	(min)	ot)		(H)	(E)	×.				200	a. 77	1 223		1967 X	(kg)	4	Ë.	D D
201	of Net			lat.	long.		art	lat.	Suc		ı ish		speed (knot)	tion			,		uo	And the second	sure (	ure (	Тепр	ials	tion				
	No.	Area	ate			Sta	f Start	r c	St.	Finish	f Fir	Time	speed	Direc	of Wa	ead	Hau		ect	မ	Pres	erati	Vater	ater	Direc	tches			
א ר פווט א אם שלאם	Series No.	Survey	Srvey Date	Position	of Start	Time of Start	Depth of	Position	of Finish long	Time of	Depth of Finish	Towing Time	Towing s	Towing Direction	Length of Warp	Wing Spread	State of	Weather	Wind Direction	Wind Force	Atmosph. Pressure (mb)	Air Temperature (°C)	Surface WaterTemp(°C)	Bottom materials	Current Direction	Total Catches	Remarks		
	[ <sub>Q</sub>	N	Ŋ	10.	õ	F	ľă	ام	ō	[=	ద	ြင်	ိုင	ြို	.3	5	S.	è	=	Ē	꿅	Air	Sur	8	3	ုဒ္ဓ	Rei		

Appendix Table-4

	289	1.00	W 1 10	10-10.7	85-58.8	11-10	221	10-09.5	85-57.8	11-40	218	30	3.0	140	680	1	"	သ	SE		1017	29.5	27.5							
	288	- m	1.	10-08.4 10-10.7 10-08.6 9-09:0 10-10.8 10-10.7	\$ 85-58.7	9-47	193	10-05:4 10-05:0 10-09:8 10-09:1 10-08:7 10-00:3 10-09:7 10-09:5	85-55.4 85-57.7	10-17	190	30	3.0	140	009	1	"	3	ES	<b>ş</b> ∓1	1018	28.2	27.1			447.0	-			
	287	1.0	H	9-09:(	5 85-54.6	8-25	106	7 10-00	8 85-55.4	8-55	107	30	3.0	325	300	1	Norma I	ລ	NE	1	1017	27.0	26.7	Ж		100.2				
	285	2	Sep. 26	7 10-08.	85-53.9 85-54.6	7-28	107	1 10-08.	85-53.0 85-54.8	7-33	108	2	3	ı	300	ı	Void	ິນ	NE	3	1016	25.8	26.8	24		79.7				
	285	J. M.	"	4 10-10.		15-27	86	8 10-09		15-57	87	30	3.3	150	280	-	" "	84	NE	4	1015	26.0	28.0	¥		359.9				
01, 1988	284	" " " E	<i>"</i>		85-54.2 85-51.1	14-22	88	0 10-09.	3 85-52.2	14-52	72	30	3.3	325	280	1	"	R	В		1015	27.5	28.1	Ж		45.0	*.			ļ
aru No.201	283			4 10-05.7	7.0	12-55	231	4 10-05	5 85-53.3	13-20	214	25	2.9	130	680	-	"	BC	S	1	1016	32.0	28.8	Н		74.0	Bad	Sea	DOLLON	
Trawling Research Survey by Nisshinmaru	282	" "	"	9-59.0 10-03.3 10-04.5 10-06.4	9 85-54.6	11-32	189		5 85-53.6	12-02	185	30	3.0	135	009	1	"	၁ ရ	N	1	1017	31.5	28.3	×		829.1				
vey by	281	11	"	3 10-04.	85-46.0 85-47.7 85-51.9	10-13	107	10-00.3 10-04.8 10-06.1	85-49.0 85-52.6	10-43	107	30	3.3	335	300	1	//	BC	N	دي	1018	30.0	27.7	Ж		463.0				
earch Su	280	u = v	. 11	10-03.	85-47.	8-58	70	3 10-04.8	85-49.	87-6	71	30	3.3	320	280	_	"	ວ g	MNN	2	1017	29.5	27.4	æ		29.5				
ing Rese	279	2	Sep.25			7-40	£2.		85-46.8	8-10	74	30	3.2	330	280	-	Normal	ပ	NE	]	1017	26.4	27.1	×		36.9				
of Traw	278	"	"	9-59.0	85-46.6	16-30	8	10-00.4	85-47.4	17-00	28	30	3.3	325	300	1	. 11	3	ŒΝ	7	1015	27.5	27.4	Ж		154.6				
Data	277	n	"	9-56.6	85-49.1	15-06	260	9-55.4	85-47.8	15-36	210	30	3.0	140	200	1	"	ပ	ñ	3	1014	29.0	27.7	H		680.4				
Recording	276	, n	11	9-56.3	85-48.2 85-49.	13-40	185	9-54.9	85-47.4	14-10	190	30	3.0	150	200	<b>h</b> ,	11	ນ	/\S	2	1015	30.2	28.2	Ж		183.4				
	275	"	"	9-54.7	85-45.8	12-04	107	6-55-6	85-44.8 85-46.9	12-34	107	30	3.2	315	300	-	"	J	ńs	2	1016	30.0	28.0	×	ńΝ	382.2				
	574	'n	"	9-56.7	85-43.6 85-45.6	10-48	83	9-55.3	85-44.8	11-18	83	30	2.8	145	300		"	IJ	ſħ	2	1017	30.5	27.9	×		43.3				
	273	2	Sep. 24	9-56.1	85-43.6	9-47	75	9-57.3	85-44.8	10-17	75	30	3.2	315	280	-	Normal	D 8	ANA	3	1018	29.0	3.72.6	×		16.7	-			
•	f Net			E. (N)	long: (₩)	t (LST)	ر ق	t. (N)	(#) Su	(LST)	(≖) usi	(min)	(knot)	tion	rp (π)	(m)	1		on		sure (mb)	ure (°C)	rTemp(°C	ials	ction	s (kg)				
	Series No. of Net	Survey Area	Srvey Date	Position lat.	of Start lor	Time of Start	Depth of Start	Position lat.	of Finish long	Time of Finish	Depth of Finish	Towing Time	Towing speed	Towing Direction	Length of Warp	Wing Spread	State of Haul	Weather	Wind Direction	Wind Force	Atmosph. Pressure (mb)	Air Temperature (°C)	Surface WaterTemp(°C)	Bottom materials	Current Direction	Total Catches	Remarks			

Appendix Table-4

a b 4 4 6 10 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	291 292 293 294
2 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	290 291 292 293 294 295 295 294 295 295 295 294 295 295 295 295 295 295 295 295 295 295
a of Trawling Resea 295 296 295 296 " " " 4 10-39.6 10-44.0 4 86-03.5 86-03.2 10-16 11-30 10-16 11-30 10-16 11-30 10-16 11-30 10-46 12-00 144 142 30 30 30 30	291 292 293 294
a of b b b b b b b b b b b b b b b b b b	291 292 293 294
291   292   293   29	291   292
291 292  "" " "  8 6-02.4 86-07.1 8  8 86-02.4 86-07.1 8  14-40 16-23  14-40 16-23  14-66-03.8 86-07.6 8  15-10 11 140  30 23  30 23  30 23  30 23  30 23  4 4 4  1015 1015  27.5 27.0	291   292
291  "" 8 86-02. 8 86-02. 111 3 10-19. 15-10 111 305 305 305 305 305 308  R R R R R R R R R R R R R R R R R R	290 291  2 ""  Sep. 26 ""  No 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10-14.6 10-18.1  10 10 10-14.6 10-18.1  10 10 10 10 10-18.1  10 10 10 10 10 10 10 10 10 10 10 10 10 1
	290 2 2 2 2 2 2 255 285 285 285 285 285 285

Appendix Table-4

Appendix Table-4				Recordi	Recording Data	of Trawl	Trawling Research Survey by Nisshinmaru No.201,	arch Sur	vey by N	sshinma	~u No.20	1988	, i .				
Series No. of Net	307	308	306	310	311	312	313	314	315	316	317	318	319	320	321	322	323
Survey Area	-	$\mu_{ij}$	"	"	"	"		" "	"	11	"	2	11	11	"	"	2
Srvey Date	Sep. 29		"	"	"	"	Sep. 30	" "	n n		m.	Oct. 1	"	"	"	"	Oct. 2
Position lat. (N)		10-30.6 10-35.4 10-37.9 10-35.6 10-33	10-37.9	10-35.6		4 10-32.7	10-32.1	10-31.1	10-30.7	10-31.1		10-33.9 10-22.2	10-22.1	10-21.8	10-20.6	10-20.7	10-20.9
of Start   long. (V) 86-04.0 86-04.2 86-08.5 86-09.4 86-12	86-04.0	86-04.2	3.80-98	86-09.4		86-16.0	1 86-16.0 86-10.4		86-12.1 86-14.2 86-14.6 86-18.5 85-59.6 85-59.7	86-14.6	86-18.5	85-59.6	85-59.7	85-58.	85-59.9 85-59.6	86-59.6	85-59.5
Time of Start (LST)	7-36	9-50	10-14	11-30	12-52	15-05	8-20	9-37	11-00	12-45	14-15	6-12	10-00	14-04	18-03	12-22	2-00
Depth of Start (m)	107	115	185	162	215	343	170	226	291	320	355	91	91	56	92	91	8
Position [lat. (N)]		10-32.2 10-37.1 10-36.7 10-34.4 10-34.	10-36.7	10-34.4		9 10-33.2	10-30.4		10-31.8 10-31.8 10-32.3 10-34.2	10-32.3	10-34.2	10-20.6	10-20.6 10-20-6	10-20.9	흐	10-22.3	10-22.8
of Finish long (W)	(W) 86-04.5 86-04.1 86-09.5 86-10.6 86-12	86-04.1	86-09.5	86-10.6	86-12.6	86-16.6	86-10.4	86-12.8	86-12.8 86-14.7 86-15.4 86-19.2 85-59.7 85-59.5	86-15.4	86-19.2	85-59.7	85-59.5	86-00.1	85-59.6	86-59.6	85-59.5
Time of Finish (LST)	8-06	9-20	10-44	12-00	13-22	15-20	8-50	9-57	11-30	13-45	14-31	6-42	10-30	14-17	18-33	22-57	2-30
Depth of Finish (m)	109	123	188	183	225	345	172	234	292	321	360	96	31	26	88	83	88
Towing Time (min)	30	30	30	30	8	15	30	20	8	8	16	30	08	13	30	30	30
Towing speed (knot)	3.2	3.3	3.3	3.3	3.3		3.2	3.0	2.6	2.8		3.2	3.2		3.0	3.2	3.4
Towing Direction	345	5	220	225	340	305	180	315	330	330	310	180	175	190	×	×	N
Length of Warp (m)	300	380	009	580	680	006	580	089	880	006	086	300	300	300	300	300	300
Wing Spread (m)	_	ı	_		1	i	1	1		. 1	_	-	-		_		
State of Haul	Normal	"	"	"	"	"	Normal	11	"	"	"	Normal	"	Vold	"	11	Normal
Weather	ည	၁	BC	3 C	2 g	BC	ВC	D g	2 8	ВС	BC	BC	. B C	ည် ရှင်	D.	BC	ВС
Wind Direction	Ŋ	54	#SS	Calm	AS.	A	Z	z	×	×	N	Calm	Ca lm	Á	SE	SE	æ
Wind Force	3	gamed .	. 1	1	2	3.	3	2	2	2	4	-	ı	83	3	3	7
Atmosph. Pressure (mb)	1017	1018	1019	1018	1018	1016	1017	1018	1018	1017	1016	1016	1017	1014	1014	1017	1014
Air Temperature (°C)	28.0	28.5	30.0	30.0	31.0	31.2	28.0	29.0	31.0	32.0	31.2	26.0	30.5	30.5	26.8	26.5	28.0
Surface WaterTemp("C	27.3	27.9	28.7	29.8	28.8	28.7	27.3	27.4	27.8	29.0	27.8	27.4	27.8	27.8	27.7	27.8	27.4
Bottom materials	Ж	Ж	Ж	×	æ		Ж					Ж	Ж		Ж	Ж	<b>35</b>
Current Direction																	
Total Catches (kg)	13.6	34.6	117.8	10.5	3000.0	1.4	622.3	713.6	1800.0	732.6	0.3	202.9	18.7	22.4	11.8	74.4	80.3
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Appendix Table-4

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Time of Start (LST)	r) 5-32									:			
Depth of Start (m)	1) 91											-	
	1) 10-22.1			 i									
	(N) 85-59.5												
Time of Finish (LST)	0 6-02												
Depth of Finish (m)	.91					,							
Towing Time (min)	30												
Towing speed (knot)	3.2												
Towing Direction	×												
Length of Warp (m)	300												
Wing Spread (m)								14. 14.					
State of Haul	Normal			12-			*435						
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Wind Direction	ENE												
Wind Force	2												
Atmosph. Pressure (mb)	1014												
Air Temperature (°C)	26.2								5.30				
Surface WaterTemp("C	5 <u></u>												
Sottom materials	*												
Current Direction			651 -	-									
Total Catches (kg)	35.2												
Remarks	Day-nisht survey. Finished No.7 Leg	No. 7 Le	<b></b>										

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CATCHES ( kg ) PER STANDARD TOW BY STATIONS

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CATCHES ( kg ) PER STANDARD TOW BY STATIONS

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## Appendix Table-5a 1統曳NT-A網の袖先間隔と各層のえい網回数

STRATA (m)	SURVEY AREA (n.m2)	WING SPREAD (m)	NO OF TOWS
11(51-)	149	11.6	8
12( 76-)	185	11.6	12
13(101-)	296	11.6	20
14(151-)	501	11.6	21
15(201-)	232	11.6	13
16(301-)	51	11.6	3
17(401-)	( 43)	_	0
	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
21(51-)	69	11.6	6
22( 76-)	104	11.6	7
23(101-)		11.6	7
24(151-)		11.6	2
25(201-)		11.6	2
26(301-)		•	0
27(401-)	( 41)	: —	0
31(51-)	70	11.6	5
32( 76-)	56	11.6	4
33(101-)		11.6	3
34(151-)	( 16)	11.0	0.
35(201-)		· _	U N
36(301-)		11.6	1
37(401-)	28	11.6	1
07 (401-7)	20	11.0	1
TOTAL SURVEYED (NOT SURVEYED)	, ,		115

<sup>\*</sup> S. TRAWL (First round)

STRATA (m)	SURVEY AREA (n.m2)	WING SPREAD (m)	NO OF TOWS
11( 51-)	149	12:0	8
12( 76-)	185	12.0	12
13(101-)	296	12.0	19
14(151-)	501	12.0	21
15(201-)	232	12.0	13
16(301-)	51	12.0	2
17(401-)	( 43)		
21(51-)	69	12.0	6
22( 76-)	104	12.0	
23(101-)	145	12.0	7 3
24(151-)	27	12.0	
25(201-)	44	12.0	3
26(301-)	(41)		0
27(401-)	(41)	•	0
A44 F4 1	70	12.0	5
31(51-)	70 56	12.0	4
32(76~)	86	12.0	4
33(101-)	16	12.0	કે કરકાં∳ેક્ટ કે કે
34(151-)	23	12.0	3
35(201-)	23 22	12.0	
36(301-)	28	12.0	
37(401-)	20	12+0	
TOTAL SURVEYED			121

<sup>\*</sup> S. Trawl (Second round)

## Appendix Table-5a 1統曳トローA網の袖先間隔と各層のえい網回数

STRATA (m)	SUR	VEY AREA (n.m2)	WING SPREAD (m)	NO OF	TOWS
11(51-)		149	14.9	8	
12( 76-)		185	14.9	12	
13(101-)		296	14.9	19	
14(151-)		501	14.9	22	
15(201-)		232	14.9	14	
16(301-)		51	14.9	3	
17(401-)	₹ (	43)	Mea .	Õ	
21 ( 51+)		69	14.9	: 6	
22( 76-)		104	14.9	7	
23(101-)		145	14.9	7	
24(151-)		27	14.9	3	
			14.9	3	
25(201-) 26(301-)	(	41)		Ö	•
27(401-)		41)	<b>-</b>	ő	
31(-51-)		70	14.9	5	•
32( 76-)		56	14.9	4	
33(101-)		86	14.9	4	
34(151-)		16	14.9	î	
35(201-)		23	14.9	î	
36(301-)		22	14,9	Î	
37(401-)		28	14.9	ī	
TOTAL SURVEYED		2104 125)		121	

<sup>\*</sup> S. Trawl (Third Round)

(n, m2)	WING SPREAD (m)	NO OF TOWS
149	14.9	. 8
- 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		113
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		22
		īŝ
( 43)		Ō
		6
		7
		6 3
		3
	14.9	3
		0
70	14.9	4
		4
86	the control of the co	5
16		i da <b>i</b> ran in in
23		1
22		
( 28)		Ō
2076		
		7 11 7
	149 185 296 501 232 51 ( 43) 69 104 145 27 44 ( 41) ( 41) 70 56 86 16 23 22	149 14.9 185 14.9 296 14.9 501 14.9 232 14.9 51 14.9 ( 43)  69 14.9 104 14.9 145 14.9 27 14.9 44 14.9 ( 41) ( 41) 70 14.9 56 14.9 86 14.9 86 14.9 23 14.9 22 14.9 22 14.9 28) 2076

<sup>\*</sup> S. Trawl(Fourth round)

STRATA (m) S	SURVEY AREA (n.m2)	WING SPREAD (m)	NO OF TOWS
11(51-;).	149	24.0	7
12( 76-)		24.0	10
13(101-)	296	24.0	16
14(151-)			0
15(201-)		<b></b>	Ō
16(301-)		e de la companya de l	Ō
17(401-)	( 43)	ang ang Pangalang Pa	0
21(51-)	69	24.0	4
22( 76-)	104	24.0	6
23(101-)		••	0
24(151-)		·	0
25(201-)			0
26(301~)			0
27(401-)	41)	<b>-</b> 11	0
31 (51-)	70	24.0	4
32(76-)		24.0	3
33(101-)		· <b>-</b>	0
34(151+)			0
35(201-)		-	0
36(301-)	( 22)	· · · · · · · · · · · · · · · · · · ·	0
37(401-)	( 28)	· -	0
TOTAL SURVEYED (NOT SURVEYED)			50

<sup>\*</sup> D. Trawl (First round)

# Appendix Table-5b 2統曳Fr-A網の抽先間隔と各層のえい網回数

### SURVEY AREA. WING SPREAD AND NO OF TOWS IN EACH STRATUM

STRATA (1	m) SUR	(n.m2)	WING S	PREAD m)	NO OF T
11( 51-	)	149	24		7
12( 76-		185	24	. 0	11
13(101~	)	296	24	.0	16
14(151-)	) (	501)		🗕 e ( sea t)	0
15(201-	(	232)		<del>-</del>	0
16(301-	) (	51)			0
17(401-	) (	43)		🗕 🐧 😘 .	0
21(51-	)	69	24	.0	5
22( 76-		and the second second	24	.0	6
23(101-	<b>)</b>	145)			0
24(151-	) (	27)		🖛 🚉 📲 🤃	0
25(201-	) (	44)		-	0
26(301-)		41)		4, 50, 470	0
27(401-)	(	41)		<b>-</b>	0
			also (see) A		
31 ( 51-	)	70	24	.0	4
32( 76-)	)	56	24	. 0	4
33(101-	(	86)			C) 4 0 0
34(151-1	(	16)			0
35(201-	) (	23)		-	0
36(301-				<b>-</b> 99977	0
37(401-				46.39	0

D. Trawl (Second round)

STRATA (m)	SURVEY AREA WI		NO OF TOWS
	(n.m2)	(m)	
11( 51-)	149	24.0	7
12(76-)	185	24.0	10
13(101-)	.296	24.0	16
14(151-)	501	24.0	5
15(201~)	( 232)	and the second	0
16(301-)	( 51)		0
17(401-)	(43)	-	0
			and the second
21 (51-)	69 .	24.0	4
22( 76-)	104	24.0	6
23(101-)	( 145)	•••	,
24(151-)	(27)		0
25(201-)	(44)		0
26(301-)			0
27(401-)	41)		
31 ( 51-)	70	24.0	4
32(76-)	56	24.0	3
33(101-)	(86)	₩-	0
34(151-)			0
35(201-)		-	0
36(301-)		-	0
37(401-)		•••	0
TOTAL SURVEYE	1430		55
(NOT SURVEYED			
Choi Souveren		# · ·	- '

<sup>\*</sup> D. Trawl (Third round)

Traw1 (1)

\* S. Trawl (1)

STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

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	4-40001 8000011 0-1-1011	17
10	0000001 0000011 0001011 800000 00000011	3866 46
on .		თ <i>ღ</i>
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7		150 49
9		2 S 8 S
'n		34
4	0000001 0-40011 01011	4.00 4.00
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α		თ ი - ი
н	40 440 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1291 33
STRATA (m)	11( 51-) 12( 76-) 13(101-) 14(151-) 15(201-) 17(401-) 22( 76-) 22( 76-) 22( 76-) 22( 76-) 23(101-) 27(401-) 31( 51-) 32( 76-) 34(151-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-) 35(201-)	TOTAL COE VAR (%)

\*S. Trawl (2

STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

30	23.84 0.34.9 0.44.9 1.64.9 1.64.9 1.64.9	34.55 34.37 34.37	22 23 127 1	4370
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27	ວວ <b>ທ</b> ທ ຜວ ງ	0000011	0001011	N 03
26		4400011	<b>000101</b> 1	50 g
25	ထက္က်တ္က လက္က လက္က	0004#II	0001011	21.1
24	N000001	0000011	4001011	14 72
23	<b>NOGGG</b> 1	0-00011	₩₩0,1011	0 10 0 10
22	500000 I	0000m11.	0001411	<b>∺ ∞</b>
21	<b>000000</b> 1	၀၀၀၀ ၊ ၊	0001011	οi
20	0770001		-0721011	3 2 5
<b>о</b>	00400	ဇာဓာကလလွှာ၊၊ လ	0001431	123 18
<b>&amp;</b>	-000001	0-000 F F	नन्द्राठा ।	11180
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[.e	N Q O O O I	6698011	0041011	3 5 5 8
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STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

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	1007000	1148000	6661111	۷.
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\* S. Traw1 (3)

STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

30	89 1537 1637 1079	13 55 1176 1577 2165	7773 1781 1781 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,
29	0000001	9999911	<b>6061111 6</b> 1	
28	8 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0	<u> </u>	1621 1621 139 139 139	;
27	0025001	၁၁၁က ဖ ၊ ၊	20001111 AM	<b>)</b>
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25	୦୦୯୮୯୦ ।	0004011	0001111 44	)
24	0000001	0000011	0001111 01	
23	- - -	<b>ოტინ</b> ე ( )	0001111 %6	) )
22	0000001	ဝဝဝထေး၊	0001111 00	Ď
21		0040011	0001111 <u>0</u> %	)
20	%7,000 I	9111 900011		
139	0000-801	0010711	0001111 181 182	7
œ,	5-6000 I	00-0011	0-01111 0	2
17	78 80 1 2 3 3 0 1 1 0 10 10 10 10 10 10 10 10 10 10 10 10	0-1-00 0 1 1	27.4 75. 20.00 7.2 20.00 111 8.0	) ř
16	က် (၁၈၈ (၁၈၈ (၁၈၈ ၁၈	00-0011	1460 3990 1111 3990	1
STRATA (m)	11 ( 51-) 12 ( 76-) 13 (101-) 14 (151-) 15 (201-) 17 (401-)	21( 51-) 22( 76-) 23(101-) 24(151-) 25(201-) 26(301-) 27(401-)	31( 51-) 32( 76-) 33(101-) 34(151-) 35(201-) 36(301-) 37(401-)	40

STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

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S. Traw1 (4)

STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

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23	GG C C C   .	6666611	0001111	01
28	84400011	1100011	8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	3414
27	⇔െ പരസ ി ി	C C C 4 C 1 1	0,0,0     1   1	36 44
26	8888811	0000 I I	0001111	100
22	00-7011	000011	00-1111	3 0 30 80
24	0000011	0000011	0001111	<b>0</b> 1.
23	6666611	0 % C C C 1 I	0001111	100
22		<b>000</b> → Ø 1 1.	0001111	3 3 3 3
2	0040011	0400011	0711111	. 63 60 80
20	~~ <b>©</b> 00011	#440011	4961111	32
<u>.</u>	00 - 4 m 1 1	00~0~11	0001111	109
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			000000	1 (%)
STRATA (m)	11( 51-) 12( 76-) 13(101-) 14(151-) 15(201-) 16(301-)	21( 51-) 22( 76-) 23(101-) 24(151-) 25(201-) 26(301-) 27(401-)	31( 751-) 32( 76-) 33(101-) 35(201-) 36(301-) 37(401-)	TOTAL COE VAR

) PER STANDARD TOW STANDARD DEVIATIONS OF CATCHES ( 100 g

		0000001		6661111		
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	O)				St.	

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	•••	0	*4*	21	0		c	0		20	ო	106	<b>C</b>	352
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26	ဗ္ဗ		22	0	O	4	0	0	15	0	311	825	O	1878
Ç		C	101	17	0	35	<b>c</b> :	0	7	0	29	0	0	3353
	0	· <b>c</b>	^	<u></u>	<b>C</b>	, c	· C	Ç	0	C	C	0	۵	388
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STANDARD DEVIATIONS OF CATCHES ( 100 g ) PER STANDARD TOW

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STANDARD DEVIATIONS OF CATCHES ( 100 g ) PER STANDARD TOW

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STANDARD DEVIATIONS OF CATCHES ( 100 g ) PER STANDARD TOW

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STANDARD ERRORS OF BIOMASS ESTIMATES ( ton )

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STRATA (m)	11( 51-) 12( 76-) 13(101-) 14(151-) 15(201-) 16(301-)	17(401-) 21( 51-) 22( 76-) 23(101-) 24(151-) 26(301-)	31(51-) 32(76-) 33(101-) 34(151-) 35(201-) 36(301-) 37(401-)	STRATIFIED
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STRATA (m)	11( 51-) 12( 76-) 13(101-) 14(151-) 15(201-) 16(301-) 17(401-)	21( 51-) 22( 76-) 23(101-) 24(151-) 25(201-) 27(401-)	31( 51-) 32( 76-) 33(101-) 34(151-) 35(301-) 37(401-)	TOTAL COE VAR (%)

## Appendix Table-6 List of Major Species Causht by Single Trawl

·		
Species No.	Scientific Name	Common Name
01	Argentina aliceae	<b>:</b>
02	Calamus Brachysomus	收件
•	Citharichthys platophrys	ki) X
03	Diplectrum eumelun	/ (ጵረጵ)
04	Diblect da emeran	
05	Epinephelus nigritus	N文
06	llemanthias peruanus	分好
07	Heterocarpus vicarius	カメージョ (エピ)
08	Loligopsis diomedea	刊仂
09	Lutjanus peru	スナッパー (バルゴセダ)
10	Munidae(Pleuronectodes sp.)	JZKKEC
11	Mustelus lunulatus	ネシゲメ
12	Merluccius gayi	メルルーサ
13	Paralabrax loro	/女 (カブリージャ)
14	Penaeus brevirostris	ピンク (エピ)
15	Penaeus californiensis	<b>プラウン(エビ)</b>
16	Peprilus medius	汐
17	Peprilus snyderi	<b>37</b>
18	Pomadasys branickii	伊车
19	Pontinus sierra	アラカブ
20	Portunidae	リタリガニ
	and the second of the property of the second	្រ ម៉ាន់ ២៩៩(១) បែ
21	Brotula clarkae	イタチウオ
22	Physiculus rastrelliger	99
23	Selene peruviana	ヒラアジ
24	Selene cerstedii	ヒラアジ
25	Solenocera agassissi	フィナール(エピ)
26	Synodus scituliceps	የክエソ
27	Trichiurus nitens	2571
28	Prionotus stephanophrys	ホーボー
•		
29		
30	All species total	全魚種
		7. リション

## Appendix Table-7 List of Major Species Caught by Double Rigged Trawl Species No. Scientific Name

en an en egeneral de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co

Species No.	Scientific Name	Common Name
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
01	Camaron colindra	n
02	Camaron aserrin	TČ.
03	Cyclopsetta panamensis	<b>サルマガレイ</b>
04	Cyclopsetta querna	ダルマガレイ
O.F.		
05	Cytharichthys platophrys	ダルマガレイ
06	Cynopouticeps coniceps	ν£
07	Diplectrum eumelum	N <b>A</b>
808	Haemulon maculicanda	付す
09	llippoglossina tetrophthalmus	<b>YNTHU</b>
10	Hemanthias peruanus	λά
11	Lutianus argentiventris	TIGH
12	Lutjanus gullatus	7134
13	Lutjanus colorado	7147
14	Mustelus lunulatus	ネシザメ
15	Portunidae sp. or Portunina sp	991 加
16	Penaeus californiensis	DIVIL
17	Penaeus brevirostris	PARTE
18	Pomadasys macracanthus	- イサキ
19	Pomadasys branickii	194
20	Pomadasys panamensis	<b>イサ</b> キ
		•
21	Paralabrax loro	NΦ
22	Pontinus sierra	ヒオトシ
23	Sycionia sp.	<b>E</b> 9ई
24	Solenocera agassissi	クダレゲエビ
25	Synodus scituliceps	アカエソ
26	Synodus evermanni	アカエソ
27	Physiculus nematopus	チコダラ
28	Prionotus stephanophrys	ホーボー
		•
29	Brotula clarkae	(2)13
30	lotal Catch	総計

	100	102	128	132	265	266	267	271	318	319	324
Net No.	126	127		722	822	922	922		1001		_ينجنون
Date	721	721	721	13	33	32	32	33	22	22	22
No.	12	13 1034									
Position Lat. (N)							8528				8600
of Start   Long(V)		1053					1512			1000	
Time of Start		1123					1542			1030	
Time of Finish	30										
Towing Time (min.)	3.1	3,4				3.2		3.4			3.2
Towing Speed(knt)	96	102	102	102	100	99	98	100	91	91	91
Depth (m)	D .	D	D	102	D	0	0	n	U	D	D
Day or Night	U	U	U	<u> </u>			-		<u> </u>		1
Species	59				373				3		20
Brotula clarkae	93		462	1100			7	O	52		
Bollmannia clamydes	765	1 1		1260		0	86	0	142	1	40
Cytharichthys platophrys	100	161	109	1200	0	]	7	, <b>'</b>	26	1	
Cynoscion nannus Diplectrum euryplectrum	166	51	147	80					39	2	10
Engyophrys sanctilaurentii	100		1.11		0	O	14	0	0	0	}
Gymnostrorax equatorialis	ľ	Ĭ	V	10			6	14	1	Ĭ	
Uymnostrorax equatorialis Hemanthias Peruanus	14	31	63			30	0	0	78	0	20
nemantnias reruanus Hippoglossina Tetrophthalumu		31	00			30	V	21	.0	٥	
Kathetostona auerrunccus					0	61		0	A An	V	0
Loligo	43	124	84	260			14	ò	13	1	
Lophiodes caulinaris	-14		21	٥	0,2	30	1	Ý	-71-1	•	0
L. spirulus	19		21	V					26	9 5 N	V
Lepophidium prorates	0.		5 .	0					20		
Lepophidium sp.	į vi			ľ					7.9		
Mustelus lunulatus			17		. 0			*     De 1			
Ommastrephes bartrami			. 1	·	5				Ÿ		
Penaeus brevirostris	0			1						-3 .	,
Portunidae sp.	7	10	21	60	0	0	50	28	39	1	
Peprilus medius	14		42			1064		7389			100
P. snyderi		1246	1.1			8815		1994			** * · · · ·
Pararabrax loro	18	1	44	000	0000	0010	010	1001	18		110
Physiculus nematopus	21		42	0	0		65	;	26	۸	20
Porichthys nectopaedium	0		0	Ň			0.0		20 0	•	20
Prionotus albirostris	0			20					11.0		1.0
P. gymnostethus	Ĭ	1 1	100	2۷	0	0	7		26		
P. stephanophrys	7	103	252	0		'	"		9		
Kemora		Ĭ		ľ					8	111	10
Solenocera agassissi	0	0	A	34	0	0	2	· ·	78		
Sycionia sp.	0		1	"	ν Λ	,	3 14		11.7		17
Synudus evermanni	50		189	60	۷		14		13 52		
Squilla	"		100	20	ŀ	,			52		
Trichiurus nitens		<b>)</b>		20		٧ ا					
Torpedo tremens .				••			10				
Zalieutes elater	28	10	0	20	44.5		19				
All species	ŧ	1964		1	1	<b></b> -			2029	\(	1

		ı ——	·						
Net No.	129	130	131	268	269	270	321	322	323
Date	721	721	722	922	922	923	1001	1001	1002
No.	13	13	13	33	33	33	22	22	22
Position Lat. (N)	1034	1035	1034	944	943	943	1022	1021	1021
of Start Long. (W)	8600	8600	8600	8528	8527	8527	8600	8600	3600
Time of Start	1840	2300	220	1907	2310	303	1803	2227	200
Time of Finish	1910	2330	250	1937	2340	333	1833	2257	230
Towing Time (min.)	30	30	30	30	30	30	30	30	30
Towing Speed(knt)	3.1	3.2	3.2	3.0	3.2	3.3	3.0	3.2	3.4
Depth	103	103	103	100	100	101	92	91	90
Day or Night	N	N	N	N	N	N	N	K	Н
Species									
Brotula clarkae	141	75	210			52	3	61	
Bollmannia clamydes	216	27	700	10	3	- 2	1	. 7	7
Cytharichthys platophrys	696	315	658	16	15	8	43	210	240
Cynoscion nannus		0		5	0	2	1 '		1
Diplectrum euryplectrum	92	18	140		l ·	0		. 21	30
Engyophrys sanctilaurentii	15	27	14	10	6	5	. :	0	0
Cymnostrorax equatorialis	10		10	-20	20	22		<b>.</b>	
Hemanthias peruanus	15	18	28	32	6		5	7	15
Hippoglossina tetrophtalmus				148	124	96			
Kathetostona auerrunccus					6				0
Loligo	0	18		. 0			0	) ,	0
Lophiodes caulinaris	30		0	5	0	0		C	l o
L. spirulus									
Lepophidium prorates	15	9	84	. 0					
Lepophidium sp.				69	12	43			
Mustelus lunulatus	37	5	10		ŧ	4			
Ommastrephes bartrami				:	6	3		ļ ·	
Penaeus brevirostris		0			0				
Portunidae sp.	- 15	63	14	58	21	20	) X		l .c
Peprilus medius		18	i I				· 4	14	37
Peprilus snyderi	46						3	1	1
Pararabrax loro		9	31	1.			1		1
Physiculus nematopus	263	1	112	42	24	23	] [	ŀ	1
Porichthys nectopaedium	203	9	0	10	l	2			1
Peristedion crustosum	'			10	7	. "			
Prionotus albirostris	15	9	28	0	0	0	1 0		7
P. gymnostethus	0		.0	0	ľ	. n	`		'
P. stephanophrys	77			ľ	]	ľ		0	7
P. xenisma	1,1	, 0	2.0		0	1 .		`	] '
Raja velezi	67	20	60	106			:		
Solenocera agassizii	70	1	100		1		12	142	144
	, α	Q 18	100	16		8		1 177	0
Sycionia sp.	61	]	. 70		1	١ ٥		, ,	1 15
Synodus evermanni	0 -		. 10		6	. 0		1	1 0
Squilla sp.	'		"	12	1	Γ ,	1	Ί '	'
Torpedo tremens	_	. 4 n	1.4						
Zalieutes elater	1900					467	125	744	755
All species	1890	1019	2381	614	411	407	125	(44	100

Appendix Table-9

Recording Data of Bottom Lony Line (SOKOTATENAWA, SOKOHAENAWA, 1988

22.2 9-44.6 85-36.8 114~120 င္ထ 82 9-46.5 28.5 85-38.0 Aug. 17 calm 11-50 60 120 8C NNN 23 32.4 Aug. 16 89 88 9-41.7 0.83 Aug. 15 11-50 Aug. 15 3 38 80 용물 9 14.4 9-47.0 85-30.1 Aug. 14 27.0 Aug: 13 8-10 ဒ္ဓ <sub>හි</sub> 1 8-00 9-33.0 85-12.0 Aug. 13 Aug. 13 10-10 ္က ၊ 응않 1017 SOKOTATENAWA SOKOHAENAWA T O T A L Remarks No. of Lost Hooks No. of Lost Sinkers TOTAL CATCHES (pes. kg) Setting Time of Bottom Long(W) Lat(N) Surface Water Tem. (°C) Series No. of Survey Atmosph: Pressure(mb) Current Direction Bottom Materials Setting Depth(m) Air Temperature Hauling DateA Hauling Time Wind Direction Survey Area Survey Date Using Hooks Wind Force Position Setting Weather No. of

ppendix Table-9

Recording Data of Bottom Lony Line (SOKOTATENAWA, SOKOHAENAWA), 1988

10-34.2 85-53.4 Aug. 24 27.0 00-2 Aug. 24 83 õ 135 င္တ 1016 Aug. 23 7-15 10-25.2 86-05.8 105 Aug. 23 27.5 0. 83 10-20 8 8 8 8 1017 33 6-50 10-21.8 86-05.8 63.4 Aug. 22 28.2 10-45 10 9 135 1016 없었 48 Aus.21 6-50 10-17.8 85-57.5 27.8 Aug. 21 10-30 76 75 8 135 ಜ 10-16.5 85-56.8 27 64.8 Aug.20 7-10 Aug. 20 10-50 28.0 28.0 8 8 60 1016 2 8 85-34.4 55 Aug. 19 9-49.7 34.7 Aug. 19 83 0. 27.8 10-45 m 20 80 1017 8 SOKOTATENAWA SOKOHAENAWA Remarks No.of Lost Hooks No.of Lost Sinkers Setting Time of Bottom L.I TOTAL CATCHES (pcs. kg) Long (W) Surface Water Tem. (°C) Lat (N) Atmosph. Pressure(mb) Series No. of Survey Current Direction Bottom Materials Setting Depth(m) Air Temperature Wind Direction Hauling Date Hauling Time No. of Survey Date Survey Area Using Hooks Wind Force Position Setting eather

Appendix Table-9 Recording Data of Bottom Lony Line (SOKOTATENAWA, SOKOHAENAWA) , 1988

-																						
7.1	7-7	ധ	Aug. 26	8-05	9-29.8	85-13.7	95	AUG.25	10-20	. 99	09	126	R	/\$S	4	1017	25.5	26.8	R	\$	27 31.3	8 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
	51	,	Aug. 25	20-2	10-38.9	85-49.6	73	Aug. 25	10-15	75	90	135	Ĵ	ħ.	3	1016	26.5	27.9	۵.	ENE	1 2.2	3
1.2			L: 1				$\Box$			Ą						7.7		-			-	The Meson

Appendix Table-9

Recording Data of Bottom Lony Line (SOKOTATENAWA, SOKOHAENAWA) . . 1988

		Γ	- ; - ;					7				<u> </u>		Γ	Γ	Γ	[ _			<b>*</b>			· ·	
20	2	0ct.14	8-15	10-21.3	86-05.2	113	0ct.14	11-40	75	9	135	ည္ထ	×	2	1018	28.7	27.4	않	NW 1.0	40 42.	છ			
19	2	0ct.13	7-30	10-22.7	86-04.4	104	0ct.13	11-30	75	90	135	<b>3</b> €	S		1019	28.0	27.1	¥ 04	N 1.4'	0	58	4	-	
. 18	2	0ct.12	7-45	10-03.2	85-50.8	104	0ct.12	11-50	75	09	135	IJ	SE	4	1017	27.5	27.2	R M	NNW 1.5	0	6			
17	က	0ct.11	7-30	9-49.7	85-32.2	62	0ct.11	10-45	75	99	135	BC	SE	-1	1016	27.5	27.3	~	NW 1.2	11 20.7	1			
16	3	Oct. 10	7-10	9-26.0	85-28.2	67	Oct. 10	11-50	75	09	135	ပ	យ	2	1017	27.0	27.0	œ	. L'O ANA	11 10.8	2	p-4		
15	3	Oct.9	8-20	9-33.2	85-11.6	72~73	. Oct.9	11-45	75	. 09	135	ບ	SE	<del>,</del>	1017	27.5	26.7	œ		10 36.0	-	· ••••		
Series No. of Survey	Survey Area	Survey Date	Setting Time of L.L		Position [Long(W)	epth(	Hauling Date	Hauling Time		Using Hooks SOKOHAENAWA	TOTAL	Weather	Wind Direction	Wind Force	Atmosph. Pressure(mb)	Air Temperature	Surface Water Tem. (°C)	Bottom Materials	Current Direction	TOTAL CATCHES (pcs. kg)	Remarks: No. of Lost Hooks	No. of Lost Sinkers		

Appendix Table-9

Recording Data of Bottom Lony Line (SOKOTATENAWA, SOKOHAENAWA) , 1988

9-32.8 85-14.5 32.1 0ct.20 A S 1016 10-30 00 띪 18 29.0 27.9 WSW 0.7 13 4.1 85-39.5 0ct. 19 10-20 35 08 ည္ထ K3 20 49.5 30.0 28.7 S 1.0 85-51.1 0ct.18 11-30 85 135 135 135 띭 77 28.5 27.2 0-08.0 85-55.4 4 Oct. 17 11-00 35 . 왕 교 125 23 WNW 0.5 85-59.6 30:0 8 19.6 27.2 10 - 13.4Oct.16 11-40 NNE 1016 **≥** 120 75 135 135 135 ည္ထ 23 14 11.3 86-07.5 30 30 27.6 10-20.1 Oct. 15 11-45 8-50 200 5 8 35 8 1017 7 SOKOTATENAWA Remarks: No.of Lost Hooks No.of Lost Sinkers SOKOHAENAWA Setting Time of Bottom L Current Direction TOTAL CATCHES (pcs. kg) Long (V) Surface Water Tem. (°C) Lat(N) Series No. of Survey Atmosph. Pressure(mb) Bottom Materials Setting Depth(m) Air Temperature Wind Direction Hauling Date Hauling Time Survey Area Survey Date Using Hooks Wind Force Setting Position Weather No. of

Appendix Table-9

Aug. 17 16-40 9-44.0 85-32.6 29.0 28.8 Aug. 18 8-30 38 ည္ထ 1015 Aug. 16 15-30 9-45.6 85-38.2 30.0 1016.0 27.8 Aug. 17 8-30 36 Calm .ΣΕ ΟΔ: NNW 22.1 Aug. 15 15-35 9-45.3 85-34.3 27.0 Aug. 16 1015 105 ပ 8-30 36 æ œ ž ന Recording Data of Shrimp Pot , 1988 Aug.14 13-50 9-48.0 85-26.8 25.9 27.8 Aug. 15 8-10 1018 35 S Aug. 13 16-30 9-48.5 85-31.3 27.0 Aug. 14 30-6 1016 38 3 Setting Time of Bottom L. Long (W) Surface Water Tem. (°C) Lat(N) Atmosph. Pressure (mb) Series No. of Survey TOTAL CATCHES (kg) Current Direction Position Lo Setting Depth(m) Bottom Materials Air Temperature Wind Direction Hauling Date Hauling Time Survey Area Survey Date Setting Vind Force No. of pot Weather demarks

30.0

55.1

1015

Aug. 18 16-15 9-49:7 85-35:3

Aug.19 7-50 36

Appendix Table-9 Recording Data of Shrimp Pot , 19

Series No. of Survey	2	8	6	10	11	12
Survey Area	2	2	2	2		1
Survey Date	Aug. 19	Aug. 20	Aug. 21	Aug. 22	Aug. 23	Aug. 24
Setting Time of Shrimp pot	17-05	16-50	17-10	17-05	16-30	18-50
Setting Lat(N)	10-15.0	10-16.5	10-21.5	10-25.8	10-35.8	10-39.8
Position Long(W)	85-56.2	85-55.9	85-03.0	86-05.1	86-00.3	85-49.0
Setting Depth(m)	ထိ	62	104	106	108	73
Hauling Date	Aug. 20	Aug. 21	Aug. 22	Aug.23	Aug. 24	Aug. 25
Hauling Time	8-00	00-8	7-55	8-15	8-40	7-50
No. of pot	35	32	35	35	35	SE
Weather	BC	ο.:	BC	Ü		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Wind Direction	Λ.	ďS		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SU	MS
Wind Force	3	7.	45 4 34 1 THE	1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		2
Atmosph. Pressure (mb)	1015	1015	1014	1014	1015	1014
Air Temperature (°C)	29.3	27.0	28.0	28:0	26.5	27.5
Surface Water Tem (°C)	28.8	28.2	27.8	28.6	28.4	28.2
Bottom Materials	RW		R. W. S.	RM		e egint digi p 🌠 e el minopoliment de la spirit el digi se
current Direction				NNE		ENE
TOTAL CATCHES (Kg)	36.0	12.9	62.4	10 10 0 0 <b>37</b> 21 1	14.3	
Kenarks						

Appendix lable-y Recording	ng Data of Shrimp Pot	ip Pot , 1988				
Series No. of Survey	13	7.	<del>ស</del> ្	9		8
Survey Area	8	3	2	2	03	67
Survey Date	0ct.9	-0ct.10	0ct.11	0ct.12	Oct. 13	Oct.14
Setting Time of Shrimp Pot	17-00	16-50	16-50	16-35	17-00	16-50
Setting Lat(N)	9-42.2	9-48.7	10-03.3	10-16:9	10-20-0	10-16.2
Position Long(W)	85-19.1	85-31.1	85-49.9	85-59.2	85-59.5	86-03.6
Setting Depth(m)	55	99	92	102	95	163
Hauling Date	0ct.10	0ct.11	Oct.12	0ct.13	0ct.14	0ct.15
Hauling Time	9-05	7-30	8-05	8-50	9-25	9-05
No. of pot	37	37	37	37	37	37
Weather	ບ	ပ	<b>℃</b>	BC	BC	3g
Wind Direction	S	#S	ES.	SSE	<b>□</b>	53=
Wind Force	e4	2		4	F	2
Atmosph. Pressure(mb)	1014	1015	1015	1017	1017	1015
Air Temperature (°C)	27.5	26.5	26.0	25.5	27.5	28.0
Surface Water Tem. (°C)	28.0	27.3	27.8	27.1	27.5	28.1
Bottom Materials	Œ	RM	×	Ж	H. Berei	
Current Direction			NNV 1.5	N 2.0	0 T N	
TOTAL CATCHES	20.1	9.1	53.4	2.9	3.0	67.7
Remarks						

Appendix Table-9

Recording Data of Shrimp Pot, 1988

	<b>}</b>		,,	بنسم					3 ·		1	·		Γ	<del></del>	-		_		-	 
23	m	Oct. 19	16-45	0.08-80	85-15.8	255	Oct. 20	18-30	37	٥	4	2	1014	27.8	27.6				120.5		
22	m	Oct.18	16-35	9-44.7	85-40.0	300	Oct.19	8-15	37	×	NNN	2	1015	26.0	28.0				37.8		
21	2	0ct.17	16-55	9-55.4	85-48.4	258	Oct. 18	00-6	37	B	SE	2	1015	26.7	28.5		NW 1.0		97.6		
20	83	Oct. 16	16-50	10-07.4	86-56.2	315	Oct.17	7-45	37	ບ	N		1013	28.5	27.8		WNW 0.5		70.0		
19	2	Oct.15	16-45	10-14.1	86-02.3	243	Oct.16	8-45	37	BC	Z	8	1014	30.0	28.1		NNW 0.5		162.1		
Series No. of Survey	Survey Area	Survey Date	Setting Time of Shrimp Pot	Setting Lat(N)	Position Long(W)	Setting Depth(m)	Hauling Date	Hauling Time	No. of pot	Weather	Wind Direction	Wind Force	Atmosph Pressure (mb)	Air tomperature(°C)	Surface water tem(°C)	Bottom materials	Current direction		Total Catches(kg)	Remarks	

Appendix Table-10a Catch by Bottom Long Line (Sokotatenawa)

Species Auxis thazard Brotula clarkae Garanx Vinctus	~												
		?	ď	ıΩ	က	7	8	o	2	1	12	13	14
	Pcs. kgPcs. kg	spcs.	kgPcs. kgP.	kgPcs. kgPcs.	cs. kgpcs		kgpcs. kg	kgpcs. kg	kgpcs. kg	kgPcs. kg	kgPcs. kgPcs.	\$.	kgPcs. kg
	The second second second				8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0								
A STATE OF THE PROPERTY OF THE PARTY OF THE	2.4.7	.7				1000							
					\$ 100 mg	1 2.0							
Carango des otrynter						1.7							
Caulolatilus affinis	Approximate the second	2 2.3	2 2.3		4 1.5		3 2.5	2 1.4	6 5.0	7 7.3			3 7.7
Coryphaena nippurus													
Diplectrum euryplectrum													319 319 319
Epinephelus acanthistius													
Epinephelus dioxvii				-						7			1 12.7
Epinephelus nigritus				, , , , , , , , , , , , , , , , , , ,	6 6.7		4 2.9	1 0.7	9 7.4	5 6.5			2 4.0
Epinephelus niveatus				1 2.0 3	3 7.5			2 2.2	10 30.9	4 5.1			
Gymnothorax eguatorialis	5 2.7	7											
Hemanthias signifer	_			7	4 1.1				5 1.1	2 0.6			
Remanthias peruanus													
Katsuwonus pelamis													
Jutjanus Peru		3 2.7	9 10.7		7	4.0	3 9.4		5 12.5	2 5.8			
Mustelus lunulatus					1	2.3							
Opichthus pacificus													
Paralabrax loro		4 2.7		1 1.8			1 0.7	1 0.5					
Pomadasys macracanthus			1.0.5	1 Y									
Pontinus furcichinus				2	4.0		1		6 1.0	1 0.2		3	0.6
Pontinus Sierra							* :					-	
Sarda chiliensi	3.5 2 7.	7.0 2 5.0										1	0.0
Sarda orientalis					-1	0.9				1 2.0			
Seriola rivoliana			1 1.5		1	1.7							
Serranus aequidens									2				
Thunnus albacores		3 12.0	1 4.0			**	2 8.0			<u> </u>			
Others													
Total catches (pcs. kg)	3.5 9 14.4	14 24 7	14 19.0 2	3.8 19 17.2	17.2 9	12.6 13	1 23.5 6	4.8 41	1 57.9 22	2 27.5	0	0	25.9

Appendix Table-10a

9 18.0 0.5 28 47.4 5 4.0 7 18.2 7 12.1 11 47.3 30 77.5 5 2.7 1 0.1 272 397.8 32 37.2. 72 54.9 1 0.1 3 35.5 1 12.7 Tota] ស្ល 12 8 €3 3 14.5 80 0.5 16 13.8 11 10.5 8 19.6 5 3.2 13 45.9 9 2.4 15 20.9 4 4.1 97 kgPcs. m 0.9 1.4 0.1 23 kgpcs. 0.8 1.5 3 2.7 4.0 0 33.0 24 kgPcs. m 3.2 2 ~ Ò N  $\mathbb{S}$ kgPcs. 1.3 5 0.4 0 7 0.6 4 17.2 3kgPcs. N 0.3 2.7 . დ 1 0 0 Catches by Bottom Long Line (SOKOTATENAWA) 7 kgPcs. kgPcs. 4.3 1.1 S S s S 0.4 ន ဗ 4 S 0 kgPcs. 0 28 kgbcs. 2.2 2.3 ∞ ∞ 5.8 10 20.0 3 kgPcs. kgPcs. 3.0 2 N 1.2.5 16 m 10 20.9 5 1.0 3 2.3.6 6 13.0 0.3 Total catches (pcs. kg) Epinephelus acanthistius Gymnothorax eguatorialis Diplectrum euryplectrum Pomadasys macracanthus Caulolatilus affinis Epinephelus nigritus Epinephelus niveatus Carangoides otrynter Coryphaena hippurus Hemanthias signifer Pontinus furcichinus Epinephelus dioxvii Hemanthias peruanus Opichthus pacificus Katsuwonus pelamis Mustelus lunulatus Serranus aequidens Seriola rivoliana Thunnus albacores Brotula clarkae Paralabrax loro Sarda orientalis Pontinus sierra Lutjanus peru Caranx Vinctus Sarda chillensi Auxis thazard Species Others.