

Conservation Services Programme Observer Report: 1st July 2009 to 30 June 2010

Kris Ramm Marine Conservation Services

CSP Observer Coverage Achieved vs. Planned 2009/10



Fishery	Days Planned	Days Achieved	% achieved against planned	Total Observer days (CSP/ Mfish)
Orange Roughy	61	53	87%	491
Oreo's	54	54	100%	350
Hake	5	5	100%	30
Hoki	214	214	100%	1249
Southern Blue Whiting	16	16	100%	205
Ling – Deepsea	17	16	94%	173
Pelagic trawl - JMA / EMA	111	106	95%	423
Tuna Domestic	44	35	80%	365
Tuna Charter	37	22	59%	210
Scampi	48	45	94%	199
Inshore - BLL	250	252	101%	482
Inshore Trawl	300	301	100%	301
Inshore Set Net	200	134	67%	134
Squid	135	138	102%	593
Totals	1492	1391	93%	7084

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-					Seabirds		Mammals	Coral	Coral Catch
	Effort	Observed	Coverage	Seabird	per 100	Mammal	per 100	Catch	per 100
FMA	Tows	Tows	(%)	Captures*	tows	Captures	tows	(kg)	tows (kg)
1. AKE	14	3	21.43	0	0.00	0	0.00	0	0.00
2. CEE	1300	276	21.23	4	1.45	16	5.80	2	0.72
3. SEC	3747	627	16.73	58	9.25	13	2.07	33.4	5.33
4. SOE	1630	129	7.91	5	3.88	0	0.00	0	7.36
5. SOU	1521	449	29.52	13	2.90	4	0.89	9.5	1.14
6. SUB	779	498	63.93	11	2.21	7	1.41	5.1	0.26
7. CHA	3035	699	23.03	12	1.72	20	2.86	1.3	0.19
8. CEW	1	0	0.00	-	-	-	-	-	-
9. AKW	37	0	0.00	-	-	-	-	-	-
10. KER	0	0	-	-	-	-	-	-	-
Total	12,064	2,681	22.22	103	3.84	60	2.24	51.30	1.91



Middle-depth trawl fisheries Hoki, hake, ling warehou species

- 62 observer trips onboard 37 vessels targeting the hoki, hake, ling warehou species mix
- Protected species interactions from 38 trips onboard 22 vessel
- Net captures again the most common
- 37 of the 163 captures made on a single vessel
 - Predominantly white-capped albatross
 - o Delays in hauling were the main cause

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Middle-depth trawl fisheries Southern blue whiting



FMA	Effort Tows	Observed Tows	Coverage (%)	Seabird Captures*	Seabirds per 100 tows	Mammal Captures	Mammals per 100 tows	Coral Catch (kg)	Coral Catch per 100 tows (kg)
1.								` &	
AKE	0	0	-	-	-	-	-	-	-
2.									
CEE	0	0	-	-	-	-	-	-	-
3.	0	0							
SEC 4.	0	0		-	-	-	-	-	
SOE	4	1	25.00	0	0.00	0	0.00	0	0.00
5.	-	•	20.00	Ü	0.00	Ü	0.00	ŭ	0.00
SOU	0	0	-	-	-	-	-	-	-
6.									
SUB	1,195	290	24.27	1	0.34	17	5.86	1	0.34
7. CHA	0	0	_			_	_		
8.	U	U		-		-			
CEW	2	0	0.00	-	-	-	-	_	
9.									
AKW	0	0	-	-	-	-	-	-	
10. KER	0	0							
KER	U	U	-	-	-	-	-	-	
Total	1,201	291	24.23	1	0.34	17	5.84	1.00	0.34

Middle-depth trawl fisheries Southern blue whiting

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- 6 observed trips onboard 5 vessels
- Protected species interactions from 3 vessels
- 13 of the 18 protected species interactions were from a single vessel
- All mammal captures were fur seals
- Large catches led to offal plants being overwhelmed
- Windows built into the nets allow for fish escape during hauling on large catches

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Middle-depth trawl fisheries **Scampi**



FMA	Effort Tows	Observed Tows	Coverage (%)	Seabird Captures*	Seabirds per 100 tows	Mammal Captures	Mammals per 100 tows	Coral Catch	Coral Catch per 100
	Tows	TOWS	(%)	Captures	tows	Captures	tows	(kg)	tows (kg)
1. AKE 2.	899	123	13.68	3	2.44	0	0.00	0	0.00
CEE	717	1	0.14	0	0.00	0	0.00	0	0.00
3.		_						×	
SEC.	3	0	0.00	_	_	_	_	_	_
4.	Ü	Ü	0.00						
SOE	1224	160	13.07	15	9.38	0	0.00	56.9	35.56
5.	1221	100	10.07	10	0.00	Ü	0.00	00.0	00.00
SOU	0	0	_	_	_	_	_	_	
6.	Ü	Ü							
SUB	1182	92	7.78	2	2.17	0	0.00	0	0.00
7.	1102	32	7.70	~	2.17	U	0.00	U	0.00
CHA	0	0			_				
8.	U	U	-	-	_	_	-	_	
CEW	0	0							
9.	U	U	-	-	-	-	-		
AKW	0	0							
10.	U	U	-					-	
KER	0	0	_	_	_	_		_	
KEK	U	U	-	-	-	-	-	-	
Total	4,025	376	9.34	20	5.32	0	0.00	56.90	15.13

Middle-depth trawl fisheries **Scampi**

- 6 observer trips onboard 5 vessels
- Increase on coverage
- Captures reported from 3 vessels
- 15 of the 20 captures came from a single vessel
 - Offal discharge during haul
 - Use of triple codend net
 - 'Stickers' not cleaned

Middle-depth trawl fisheries Squid



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					Seabirds		Mammals	Coral	Coral Catch
	Effort	Observed	Coverage	Seabird	per 100	Mammal	per 100	Catch	per 100
FMA	Tows	Tows	(%)	Captures*	tows	Captures	tows	(kg)	tows (kg)
1. AKE	0	0	-	-	-	-	-	-	
2. CEE	0	0	-	-	_	-	-	-	-
3. SEC	100	5	5.00	0	0.00	0	0.00	0	0.00
4. SOE	13	1	7.69	0	0.00	0	0.00	1	100.00
5. SOU	2223	750	33.74	73	9.73	8	1.07	241.2	32.16
6. SUB	1249	302	24.18	20	6.62	3	0.99	2	0.66
7. CHA	4	0	0.00	-	-	-	-	-	_
8. CEW	0	0	_	_	_	-	_	-	_
9. AKW	0	0	-	-	-	-	-	-	
10. KER	0	0	-	-	-		_	-	
Total	3,589	1,058	29.48	93	8.79	11	1.04	244.20	23.08
是自由原稿和	0.000		PATE 153	深州和新港沿北海	MAKKKY	MMMM	大大大大大大大		

$\label{eq:middle-depth} \begin{tabular}{l} Middle-depth\ trawl\ fisheries \\ Squid \\ \end{tabular}$

- 25 observed trips onboard 17 vessels in the squid trawl fishery
 - o Overall reduction in observer coverage
- Protected species interactions from 17 trips on all 17 vessels
 - Captures relatively evenly distributed between vessels
- Both fur seal and New Zealand sea lion captures increased.
 - o 3 female sea lions, 1 male
- White-capped albatross and white-chinned petrels most commonly captured birds
- Offal management and mitigation practices were generally observed to be good

Pelagic trawl Jack mackerel and barracouta



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<u> </u>					Seabirds		Mammals	Coral	Coral Catch
	Effort	Observed	Coverage	Seabird	per 100	Mammal	per 100	Catch	per 100
FMA	Tows	Tows	(%)	Captures*	tows	Captures	tows	(kg)	tows (kg)
1. AKE	1	0	0.00	_	_	_	_	_	
2. CEE			0.00						
3.	0_	0	-		-	-			
SEC	461	121	26.25	5	4.13	1	0.83	0.1	0.08
4. SOE	45	0	0.00	-	-	-	-	-	
5. SOU	261	111	42.53	8	7.21	3	2.70	0.1	0.09
6. SUB	0	0	-	-	-	-	-	-	
7. CHA	926	251	27.11	7	2.79	4	1.59	9.7	3.86
8. CEW	1493	415	27.80	0	0.00	1	0.24	5.5	1.33
9. AKW	270	132	48.89	0	0.00	1	0.76	0.5	0.38
10. KER	0	0	_	-	-	-	-	-	-
Total	3,457	1,030	29.79	20	1.94	10	0.97	15.90	1.54



Pelagic trawl Jack mackerel and barracouta

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- 32 observer trips onboard 13 vessels
- Distribution of coverage similar to the previous year
- Protected species interactions occurred on 10 trips onboard 6 vessels
- Overall reduction in common dolphin captures
 - o 3 animals captured in the same event
 - O Headline height an issue

Deepwater trawl Orange roughy, cardinalfish and oreo



					Seabirds		Mammals	Coral	Coral Catch
	Effort	Observed	Coverage	Seabird	per 100	Mammal	per 100	Catch	per 100
FMA	Tows	Tows	(%)	Captures*	tows	Captures	tows	(kg)	tows (kg)
1. AKE	224	66	29.46	0	0.00	0	0.00	19.20	29.09
2. CEE	1053	66	6.27	1	1.52	0	0.00	152.00	230.30
3. SEC	695	158	22.73	0	0.00	0	0.00	38.80	24.56
4. SOE	2052	1,131	55.12	23	2.03	1	0.09	117.80	10.42
5. SOU	18	18	100.00	0	0.00	0	0.00	0.00	0.00
6. SUB	1689	755	44.70	6	0.79	0	0.00	1,744.90	231.11
7. CHA	95	92	96.84	0	0.00	0	0.00	1.00	1.09
8. CEW	0	0	-	-	-	-	-	-	
9. AKW	145	79	54.48	0	0.00	0	0.00	9,862.50	12,484.18
10. KER	0	0	-	-	-	-	-	-	-
Total	5,971	2,365	39.61	30	1.27	1	0.04	11,936.20	504.70



Deepwater trawl Orange roughy, cardinalfish and oreo

- 37 observed trips onboard 12 vessels
- Coral bycatch from 32 trips onboard all 12 vessels
- 96% of coral caught was Scleractinia
- On vessel responsible for 10 of the 12 tonnes of coral caught
- 'Deck strikes' and 'Warp strikes' make up the majority of interactions with seabirds



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	Effort	Observed	Coverage	Seabird	Seabirds per 100	Mammal	Mammals per 100
FMA	Tows	Tows	(%)	Captures*	tows	Captures	tows
1. AKE	9,768	171	1.75	-	-	1	0.58
2. CEE	10,147	0	-	-	-	-	-
3. SEC	15,554	441	2.84	10	2.27	-	-
4. SOE	1,021	0		-	-	-	-
5. SOU	4,038	204	5.05	7	3.43	-	_
6. SUB	796	0		-	-	-	-
7. CHA	15,909	258	1.62	5	1.94	-	-
8. CEW	1,946	0					-
9. AKW	1,821	0		-	-	-	-
10. KER	0	0	-	-	-	-	-
Total	61,000	1,074	1.76	22	2.05	1	0.09

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Inshore fisheries Inshore trawl

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- Observer trips conducted onboard 22 vessels
- Interactions with seabirds or mammals were observed onboard 9 vessels
- Coverage lower than the previous year
- Interactions were dominated by a mass deck strike event
- White-capped albatross suffered the highest mortalities
- Warp-strikes more common than net captures

Inshore fisheries BLL- ling, bluenose, häpuku, bass

	Effort	Observed	Coverage	Number of hooks	Seabird	Seabirds per 1000	Mammal	Mammals per 1000
FMA	Lines	Lines	(%)	observed	Captures*	hooks	Captures	hooks
1. AKE 2.	1477	73	4.94	56,522	29	0.513	0	0.000
CEE	2520	0	0.00	0	-	-	-	-
3. SEC 4.	1126	53	4.71	49,450	3	0.061	0	0.000
SOE	1989	141	7.09	180,200	7	0.039	0	0.000
5. SOU 6.	218	0	0.00	0	-	-	-	-
SUB	105	0	0.00	0	-	-	-	-
7. CHA 8.	818	0	0.00	0	-	-	-	-
CEW	323	0	0.00	0	-	-	-	-
9. AKW 10. KER	760 0	16 0	2.11	5,770	0	0.000	0	0.000
Total	9,336	283	3.03	291,942	39	0.134	0	0.000



Inshore fisheries BLL- ling, bluenose, häpuku, bass

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- Observer trips conducted onboard 4 vessels
- Protected species interactions from three of these trips
- 27 black petrel interactions occurred at hauling
 - All from a single vessel
 - All in close proximity to the breeding colony
 - All released alive, however long term survival not assessed
- Indicates the need for better education amongst the fleet with regard to mitigation and line weighting

Inshore fisheries BLL- snapper



FMA	Effort Lines	Observed Lines	Coverage (%)	Number of hooks observed	Seabird Captures*	Seabirds per 1000 hooks	Mammal Captures	Mammals per 1000 hooks
AKE	6029	494	8.19	671,645	30	0.045	0	0.000
2. CEE 3.	0	-	-	-	-	-	-	-
SEC 4. SOE	0	-	0.00				-	<u>-</u>
5. SOU	0	-	-	-	-	-	-	-
6. SUB	0	-		-		-	-	
7. CHA	8	0	0.00	-	-	-	-	
8. CEW	15	0	0.00				-	-
9. AKW 10.	137	0	0.00				-	
KER	0	-	-	-	-	-	-	-
Total	6,191	494	7.98	671,645	30	0.045	0	0.000

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Inshore fisheries BLL- snapper

- Observer trips conducted onboard 33 vessels
- Protected species captures onboard 12 vessels
- Tori line and mitigation use amongst the fleet was highly variable
- One vessel accounted for 18 of the 30 captures
 - New entrants to the fleet
 - Proximity to breeding colonies
 - Lack of mitigation and line weighting
- Mentoring of new entrants to the fleet to reduce risk of similar incidents

Inshore fisheries Setnet



	Effort	Observed	Coverage	Length of nets	Seabird	Seabirds per 1000m	Mammal	Mammals	Protected Fish	Protected Fish per 1000m
FMA	Nets	Nets	(%)	observed (m)	Captures*	net	Captures	net	Captures	net
1. AKE 2.	7483	8	0.11	4,828	0	0.000	0	0.000	0	0.000
CEE	1588	0	0.00	0	-	-	-	-	-	-
3. SEC	4025	1,583	39.33	558,851	4	0.007	7	0.013	0	0.000
4. SOE	13	0	0.00	0	-	-	-	-	-	
5. SOU	564	343	60.82	315,840	4	0.013	3	0.009	1	0.003
6. SUB	3	0	0.00	0	-	-	-	-	-	-
7. CHA 8.	710	0	0.00	0	-	-	-	-	-	
CEW 9.	1928	0	0.00	0	-	-	-	-	-	
AKW 10.	7446	0	0.00	0	-	-	-	-	-	-
KER	1	0	0.00	0	-	-	-	-	-	
Total	23,761	1,934	8.14	879,519	8	0.009	10	0.011	1	0.001

Inshore fisheries Setnet

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- Observer trips conducted onboard 15 vessels
- Wider spread of coverage through the year
- Protected species interactions on 9 vessels
- 2 Hector's dolphins captured
 - o Timaru
 - o Kaikoura
- White pointer shark captured
- First reported captures of Stewart Island Shag and Fiordland crested penguin



Longline fisheries SLL- Charter tuna

FMA	Effort Sets	Observed Sets	Coverage (%)	Number of hooks observed	Seabird Captures*	Seabirds per 1000 Hooks	Mammal Captures	Mammals per 1000 Hooks
1. AKE	0	0	-	-	-	-	-	-
2. CEE 3.	21	21	100.00	53,265	9	0.169	0	0.000
SEC 4.	0	0	-	-	-	-	-	-
SOE 5.	0	0	-	-	-	-	-	-
SOU 6.	120	120	100.00	320,542	46	0.144	16	0.050
SUB 7.	0	0	-	-	-	-	-	-
CHA 8.	25	25	100.00	69,931	10	0.143	0	0.000
CEW 9.	0	0	-	-	-	-	-	-
AKW 10.	0	0	-	-	-	-	-	-
KER	0	0	-	-	-	-	-	-
Total	166	166	100.00	443,738	65	0.146	16	0.036

Longline fisheries SLL- Charter tuna

- All 4 vessels observed
- All lines observed
- Seabird and mammal captures from all vessels
- High numbers of captures
 - Birds particularly abundant and aggressive in SOU
- Mitigation trials undertaken testing tori lines

Longline fisheries SLL- Domestic tuna and swordfish



The Market	ASS							A STATE OF THE PARTY OF THE PAR
	_		_	Number		Seabirds		Mammals
	Effort	Observed	Coverage	of hooks	Seabird	per 1000	Mammal	per 1000
FMA	Sets	Sets	(%)	observed	Captures*	Hooks	Captures	Hooks
1. AKE	1028	91	8.85	80,648	24	0.298	8	0.099
2. CEE	1171	50	4.27	52,006	11	0.212	0	0.000
3. SEC	0	0	-	-	-	-	-	-
4. SOE	0	0		-		-		-
5. SOU	0	0	-	-	-	-	-	-
6. SUB	0	0 _		- L		-	-	-
7. CHA 8.	186	9	4.84	11,000	43	3.909	3	0.273
CEW 9.	3	0	0.00	- L	-		-	-
9. AKW 10.	278	48	17.27	47,695	3	0.063	0	0.000
KER	44	0	0.00	-	-	-	-	-
Total	2,710	198	7.31	191,349	81	0.423	11	0.057
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Longline fisheries SLL- Domestic tuna and swordfish

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- 19 trips onboard 16 vessels
- Protected species interactions form 10 trips on 8 vessels
- 42 of the 93 protected species interactions were from one vessel
 - Bird abundance
 - o Moon phase
 - Deck lighting
 - Line weighting
- Skipper / Crew were new to the fishery, indicates the need for an induction or mentoring programme for risk management



Longline fisheries Ling bottom longline



ſ		THE REAL PROPERTY.			Number		Seabirds		Mammals
		Effort	Observed	Coverage	of hooks	Seabird	per 1000	Mammal	per 1000
ì.	FMA	Lines	Lines	(%)	observed	Captures*	hooks	Captures	hooks
	1. AKE	0	0	-	-	-	-	-	
	2. CEE	44	0	0.00	0	-	_	-	
8	3. SEC	_ 0 _	0			-	-	-	
ı.	4. SOE	217	147	67.74	127,615	0	0.000	0	0.000
1	5. SOU	84	84	100.00	172,090	8	0.046	0	0.000
ŧ.	6. SUB	307	91	29.64	150,238	2	0.013	0	0.000
1	7. CHA	0	0	-	-	-	-	-	
ı.	8. CEW	0	0	-	-	-	_	-	
	9. AKW	0	0		-	-	-		
	10. KER	0	0	-	-	-	-	-	
L	Total	652	322	49.39	449,943	10	0.022	0	0.000

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Longline fisheries Ling bottom longline



- 1 vessel observed for 3 trips
- Mitigation use and offal management observed to be consistent
- Captures increased over the previous year
- 6 of the 10 captures were from a single event
- Captures dominated by sooty shearwaters