4. Overlapping fisheries

Though the bird species summaries indicate that some are caught in a variety of fisheries, the longline fisheries, because of their extensive literature, provide the principal material source covered in this report. An analysis of the literature identifies the sample of fish species listed in Table 6 as being targeted in fisheries where bird interactions have been observed.

The generalised oceanic distribution of the selected New Zealand seabird species presented in this report is shown in Fig. 27, superimposed on the world map of FAO fishing zones. Table 6 provides a summary of target fish species (and tonnages caught in 1999) related principally to fisheries in the EEZs of those nations visited by New Zealand breeding seabirds.

Table 7A-D lists the countries catching the target fish species (see Table 6) in the FAO fishing zones that are visited by New Zealand breeding seabirds. Table 7 includes those countries listed in Table 6 which have EEZs within those seabird ranges, but in addition lists a number of countries whose vessels fish in international waters transited by the New Zealand seabirds.

Some overseas fisheries may not seriously interact with New Zealand seabird species because the fishery may operate at a time of year when, according to our present knowledge, the seabird species concerned is not present in the same area. It is important that any investigation of potential interaction



Figure 27. Total distribution range of the selected breeding New Zealand albatrosses, petrels, and shearwaters (Figs 2-26) in relation to FAO fishing zones.

TABLE 6. EXAMPLES OF TARGET FISH TYPES AND TONNAGES (FOR 1999), CAUGHT BY NATIONS WITH NATIONAL WATERS USED BY SELECTED ALBATROSSES, PETRELS AND SHEARWATERS BREEDING IN NEW ZEALAND.

1, < 1000 metric tonnes (mt); **2**, 1001 to 10 000 mt; **3**, 10 001 to 100 000 mt; **4**, 100 001 to 200 000 mt; **5**, > 200 000 mt.

SPECIES	SA	Nam	Aus	NZ	Chl	Per	Ecu	Arg	Flk	Bra	Uru	Col	Pan	Mex	Jap	Kor	Rus	Can	US
Bluenose warehou			1	2															
Hyperglyphe antarctica																			
Grenadier, blue			2	5											3				
Macruronus novaezelandiae																			
Grenadier (collective)	1							2			1					2			
Macruronus spp.					_			,	_		_								
Grenadier, Patagonian		1			5			4	2		2								
Macruronus magellanicus																_			
Grenadier, thorntooth				2												1			
Lepidorbynchus denticulatus																			
Groupers			1		1	1				2		1			1				
Serranidae spp.	2	4															1		
Hake(s), Cape	3	4															1		
Meriuccius capensis, M. paradox		1	1					-	2		2								
Martuccius hubbsi		1	L					2	2		5								
Hake North Pacific														1					E
Merluccius productus														1					>
Hake South Pacific					4	3						1							
Merluccius gavi					•	5													
Hake southern				3	3			2								2	1		
Merluccius australis				5	5			-								-	•		
Ling/kingklip	2	2																	
Genvpterus capensis, G. blacodes	_	-																	
Ling/pink cusk-eel	1	1		3	2	1		3	1	1	1					2			
Genybterus blacodes				U				U											
Marlin and sailfish			1				2			1				1					
Istiophoridae spp.																			
Seabream, silver			2	2											3	1			
Pagrus major																			
Sharks		1	1	2	1	2		1		3	2		1	3					2
Elasmobranchii spp.																			
Snapper			2			1				2		1	3	2		1			1
Lutjanidae spp.																			
Swordfish	1	1		2	2	1				2	1		1	2	3	1		2	2
Xiphas gladius																			
Toothfish, Antarctic			1	1															
Dissostichus mawsoni																			
Toothfish, Patagonian	1	1	2	1	3			2	2		2					2			
Dissostichus eleginoides																			
Tuna, albacore	2	2	1	2						2	1		1	1	3	2		1	3
Thunnus alalunga																			
Tuna, bigeye	1	1	2	1	1		3			2	1	2	2	1	3	3	1	1	2
Thunnus obesus																			
Tuna, blackfin										1									1
Thunnus atlanticus			_																
Tuna, longtail			1																
Thunnus tonggol																			
Thursday the second second				I						I			I	2	5			I	2
Tounnus loynnus	1		2	2		1	6			2		2	2	2	-	6	2		6
runa, skipjack	I		2	2	I	I	4			3		3	4	3	>	4	4		4
Tupa southern bluefe			2	1											2	2			
Tuna, soumern bluenn			2	I											2	2			
Tuna vellowfin	1	1	2	1	1	2	3			2	1	3	2	4	3	3	2	1	3
Thunnus albacaros			-			-	5			-		5	-	T	5	5	-		5
Whiting, southern blue		1	2	3	3			3	2						3		3		
Micromesistius australis		~	-	5	5			5	-						5		5		
Squid spp.	1	1	2	3	2	2	1	1	3	1	3	1	1	3	5	5	3	1	4
I TIT			-	~	_	_									-	-	~		-

SA, South Africa; Nam, Namibia; Aus, Australia; NZ, New Zealand; Chl, Chile; Per, Peru; Ecu, Ecuador; Arg, Argentina; Flk, Falklands; Bra, Brazil; Uru, Uruguay; Col, Colombia; Pan, Panama; Mex, Mexico; Jap, Japan; Kor, Korea; Rus, Russia; Can, Canada; US, United States.

TABLE 7A. EXAMPLES OF TARGET FISH TYPES CAUGHT BY SOUTHERN COUNTRIES FISHING IN INTERNATIONAL WATERS USED BY SELECTED ALBATROSSES, PETRELS AND SHEARWATERS BREEDING IN NEW ZEALAND. SHOWN ACCORDING TO FAO FISHING ZONES IN 1999 (SEE FIG. 1).

SPECIES	SA	Nam	StH	Aus	NZ	Chl	Per	Ecu	Col	Pan	Mex	Arg	Flk	Bra	Uru	Bel
Bluenose warehou				81	81											
Hyperglyphe antarctica																
Grenadier, blue				81	81											
Macruronus novaezelandiae																
Grenadier, Patagonian		41		41		41,87						41	41		41	41
Macruronus magellanicus																
Grenadier, thorntooth					81											
Lepidorbynchus denticulatus																
Groupers			47				87		87		77			41		
Serranidae spp.																
Hake(s), Cape	47	47														
Merluccius capensis, M. paradox																
Hake, Argentine		41		41								41	41		41	41
Merluccius hubbsi																
Hake, North Pacific																
Merluccius productus																
Hake, South Pacific						87	87		87							
Merluccius gayi																
Hake, southern					81	41,87						41				
Merluccius australis																
Ling/kingklip	47	47														
Genypterus capensis or, G. blacod	les															
Ling/pink cusk-eel		41		41	81	87						41	41		41	41
Genypterus blacodes																
Marlin and sailfish								87			77					
Istiophoridae spp.																
Seabream, silver				57,	81											
Pagrus major				71,81												
Sharks	47,	47		57,	81		87				77	41		41	41	
Elasmobranchii spp.	51, 5	8		71,81												
Snapper		71		57			87		87					41		
Lutjanidae spp.																
Swordfish	47	47		57	81	87	87			41,	77			41	41	
Xiphas gladius										47						
Toothfish, Antarctic					88											
Dissostichus mawsoni																
Toothfish, Patagonian	48,	41		41,	81,	48,						41,	41		41,	41
Dissostichus eleginoides	58			58	88	87						48			48	
Tuna, albacore	47,	47	47	57,	81						77			41	41	
Thunnus alalunga	51			71,81												
Tuna, bigeye	47	47	47	57,	81	87		87	87	77	77			41	41	
Thunnus atlanticus				71,81												
Tuna, longtail				57												
Thunnus tonggol																
Tuna, northern bluefin					81						77			41		
Thunnus thynnus																
Tuna, skipjack	47		47	57,	81	87	87	87	87	77,	77,			41		
Katsuwonus pelanus				71,81						87	87					
Tuna, southern bluefin				57,	81											
Thunnus maccoyii				81												
Tuna, yellowfin	47	47	47	57,	81	87	87	87	87	41,	77, 87			41	41	
Thunnus albacares				71,81						77, 87						
Whiting, southern blue		41		41	81	41,87						41	41			
Micromesistius australis																
Squid spp.	51,	47		57,	81	87		87		77		41			41	
	47			71,81												

SA, South Africa; Nam, Namibia; StH, St Helena; Aus, Australia; NZ, New Zealand; Chl, Chile; Peru, Peru; Ecu, Ecuador; Col, Colombia; Pan, Panama; Mex, Mexico; Arg, Argentina; Flk, Falklands; Bra, Brazil; Uru, Uruguay; Bel, Belize.

TABLE 7B. EXAMPLES OF TARGET FISH TYPES CAUGHT BY SE ASIAN AND INDIAN OCEAN COUNTRIES FISHING IN INTERNATIONAL WATERS USED BY SELECTED ALBATROSSES, PETRELS AND SHEARWATERS BREEDING IN NEW ZEALAND. SHOWN ACCORDING TO FAO FISHING ZONES IN 1999 (SEE FIG. 1).

SPECIES	India	SriL	Reun	Mald	Maur	Sey	Pak	Thai	Indon	Malay	Sing	Phil
Bluenose warehou												
Hyperglyphe antarctica												
Grenadier, blue												
Macruronus novaezelandiae												
Grenadier, Patagonian												
Macruronus magellanicus												
Grenadier, thorntooth												
Lepidorbynchus denticulatus												
Groupers									71	71	71	
Serranidae spp												
Hake(s), Cape												
Merluccius capensis, M. paradox												
Hake, Argentine												
Merluccius bubbsi												
Hake, North Pacific												
Mertuccius productus												
Hake, South Pacific												
Meriuccius gayi												
Mortuccius australis												
Ling/kingklip												
Convitoriis cabonsis C blacodes												
Ling/pink cusk-eel												
Genviterus blacodes												
Marlin and sailfish	51 57	57				51	51					
Istionhoridae spp	51, 57	21				51	51					
Seabream, silver										71		
Pagrus major												
Sharks	51, 57	57		51	51	51		57	71	71	71	57
Elasmobranchij spp.	24,27	27						27				27
Snapper						51		57	71	71.77	71.77	
Lutjanidae spp.										,	,	
Swordfish	57	57	51			51						57
Xiphas gladius												
Toothfish, Antarctic												
Dissostichus mawsoni												
Toothfish, Patagonian			58									
Dissostichus eleginoides												
Tuna, albacore						51						57
Thunnus alalunga												
Tuna, bigeye	57	57		51	51	51, 57						41, 51,
Thunnus atlanticus												57
Tuna, longtail												
Thunnus tonggol												
Tuna, northern bluefin												
Thunnus thynnus												
Tuna, skipjack	51, 57	57		51	51	51, 57	51		71		71	
Katsuwonus pelanus												
Tuna, southern bluefin		57										
Thunnus maccoyii												
Tuna, yellowfin	51, 57	57		51	51	51, 57	51		71			41, 51,
Thunnus albacares												57
Whiting, southern blue												
Micromesistius australis												
Squid spp.									71	57		

SriL, Sri Lanka; Reun, Réunion; Mald, Maldives; Maur, Mauritius; Sey, Seychelles; Pak, Pakistan; Thai, Thailand; Indon, Indonesia; Malay, Malaysia; Sing, Singapore; Phil, Philippines.

TABLE 7C. EXAMPLES OF TARGET FISH TYPES CAUGHT BY OTHER SE ASIAN COUNTRIES FISHING IN INTERNATIONAL WATERS USED BY SELECTED ALBATROSSES, PETRELS AND SHEARWATERS BREEDING IN NEW ZEALAND. SHOWN ACCORDING TO FAO FISHING ZONES IN 1999 (SEE FIG. 1).

SPECIES	China	Taiwan	Japan	Korea
Bluenose warehou				
Hyperglyphe antarctica				
Grenadier, blue			81	81
Macruronus novaezelandiae				
Grenadier, Patagonian				41
Macruronus magellanicus				
Grenadier, thorntooth				
Lepidorbynchus denticulatus				
Groupers	61	61		
Serranidae spp				
Hake(s), Cape				
Merluccius capensis, M. paradox				
Hake, Argentine			41	
Merluccius hubbsi				
Hake, North Pacific				
Merluccius productus				
Hake, South Pacific				
Merluccius gayi				
Hake, southern				81
Merluccius australis				
Ling/kingklip				
Genypterus capensis, G. blacodes				(
Ling/pink cusk-eel				41, 81
Genypterus blacodes				
Marlin and sailfish	57, 77			51, 57, 61, 71, 77
Istiophoridae spp.		(1	(1	(1
Seabream, silver		61	61	61
Pagrus major	57 61 77	41 47 E1 E7	41 47 51 57	51 61 77 01
Sharks	5/, 01, //	41, 4/, 51, 5/,	41, 47, 51, 57,	51, 01, 77, 81
Enapper	61	61	01, /1, //, 81, 8/	
Jutianidae spp	01	01		
Swordfish	47 51 57 77	41 47 51 57	41 47 51 57 61	51 57 61 71 77 87
Xibhas gladius	47, 91, 97, 77	71 77 81 87	71 77 81 87	51, 57, 61, 71, 77, 67
Toothfish Antarctic		/1, //, 01, 0/	/1, //, 01, 0/	
Dissostichus mawsoni				
Toothfish Patagonian				41 48
Dissostichus eleginoides				
Tuna, albacore	47, 51, 57, 71, 77	41, 47, 51, 57, 61,	41, 47, 51, 57, 61,	51, 57, 71, 77, 87
Thunnus alalunga		67, 71, 77, 81, 87	71, 77, 81, 87	> -, > , , , , , , , , , , , , , , , , ,
Tuna, bigeve	47, 51, 57, 71, 77	41, 47, 51, 57, 61,	41, 47, 51, 57, 61,	47, 51, 57, 61,
Thunnus atlanticus	,	71, 77, 81, 87	71, 77, 81, 87	71, 77, 81, 87
Tuna, longtail		61, 71	, , ,	, , ,
Thunnus tonggol		,		
Tuna, northern bluefin		61, 71	61, 71, 77, 81	
Thunnus thynnus				
Tuna, skipjack		47, 51, 61, 71, 77	51, 57, 61, 71, 77,	71,87
Katsuwonus pelanus			81, 87	
Tuna, southern bluefin		41, 47, 51, 57, 81	47, 51, 57, 81	47, 51, 57
Thunnus maccoyii				
Tuna, yellowfin	41, 51, 57, 71, 77	41, 47, 51, 57, 61,	41, 47, 51, 57, 61,	47, 51, 57, 61,
Thunnus albacares		71, 77, 81, 87	71, 77, 81, 87	77, 81, 87
Whiting, southern blue			81	
Micromesistius australis				
Squid spp.	61	61, 71	41, 61, 81	47, 51, 57, 61, 71, 67, 77, 81

TABLE 7D. EXAMPLES OF TARGET FISH TYPES CAUGHT BY NORTHERN COUNTRIES FISHING IN INTERNATIONAL WATERS USED BY SELECTED ALBATROSSES, PETRELS AND SHEARWATERS BREEDING IN NEW ZEALAND. SHOWN ACCORDING TO FAO FISHING ZONES IN 1999 (SEE FIG. 1).

SPECIES	Russia	Canada	USA	France	Poland	Portugal	Spain	Ukraine	UK
BlueBluenose warehou									
Hyperglyphe antarctica									
Grenadier, blue								81	
Macruronus novaezelandiae				41	41		41		41
Grenadier, Patagonian				41	41		41		41
Macruronus magellanicus									
Grenadier, thorntooth									
Lepidorbynchus denniculatus									
Groupers									
Hake(s) Cape	47						47	47	
Merluccius capensis M paradox	7/						T /	47	
Hake Argentine				41	41		41		41
Merluccius hubbsi				-11	11		11		11
Hake. North Pacific									
Merluccius productus									
Hake. South Pacific									
Merluccius gavi									
Hake, southern								81	
Merluccius australis									
Ling/kingklip									
Genypterus capensis, G. blacodes									
Ling/pink cusk-eel							41	81	41
Genypterus blacodes									
Marlin and sailfish			77	51					
Istiophoridae spp.									
Seabream, silver									
Pagrus major									
Sharks	61		67, 77	51		41, 47,	41, 47		
Elasmobranchii spp.						51			
Snapper			77						
Lutjanidae spp.									
Swordfish			67, 77	51		51	41, 47,		
Xiphas gladius							51		
Toothfish, Antarctic									
Dissostichus mawsoni									
Toothfish, Patagonian				41, 58			41, 48	58	41, 48
Dissostichus eleginoides									
Tuna, albacore		67	67, 71,	51			41, 47,		
Thunnus alalunga			77				51		
Tuna, bigeye			71, 77	51, 57			41, 47, 51	,	
Thunnus atlanticus							57, 77, 87		
Tuna, longtail									
Thunnus tonggol									
Tuna, northern bluefin			67, 77						
Thunnus thynnus									
Tuna, skipjack			71	51, 57			51, 57,		
Katsuwonus pelanus							77,87		
Tuna, southern bluefin									
Thunnus maccoyii							<i>.</i>		
Tuna, yellowfin			71, 77	51, 57			41, 47, 51	,	
Thunnus albacares							57, 77, 87	01	/1
wniting, southern blue							41	81	41
<i>Micromesistius australis</i>	(1. 0)		(-				/		
Squid spp.	61,81		67				47, 51	51	

problems by fisheries in the waters of overseas countries, looks for such presence and absence relationships, especially as our knowledge of distribution for young and non-breeding birds is so poor.

5. Conclusions

New Zealand is the breeding place for the world's most varied seabird species community.

This report identifies at least 50 bird species which breed only in New Zealand, or have part of their breeding populations there, as having been recorded in fishery interactions worldwide.

This report also identifies 13 albatrosses, seven petrels and five shearwaters as examples of seabirds who forage outside the New Zealand EEZ. Twenty-four of them have been caught in New Zealand fisheries, and 21 of these species have so far been recorded as caught in overseas fisheries.

Of these 25 species covered in detail, four species forage during their life-cycle in the South Atlantic, four in the Indian Ocean, 22 in Australian waters or the Tasman Sea, and 15 forage eastwards beyond the central Pacific Ocean to the coasts of Chile and Peru. Six species cross the equator into the North Pacific as far north as the Bering Sea.

For only a small number of fisheries are there reliable data about which bird species interact with the fishery, under what conditions, and at what time of the year.

For most seabirds that may be vulnerable to incidental catch in fisheries, there is little or no reliable information on the global distribution of the juvenile, adolescent, pre-breeding and non breeding individuals within seabird populations.

Our knowledge of the fisheries and bird interactions within some national waters is limited, as is the effect of multinational fisheries in international waters outside of areas regulated by the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR).

6. Recommendations

1. That New Zealand continue to make progress with obtaining baseline knowledge of its seabird community, to allow reasonable predictions of the effects of fishing practices and other environmental factors which may affect that community.

2. That New Zealand foster the obtaining of information on fisheries/seabird interactions, in the waters of any country where New Zealand endemic seabird species, and those other species where a significant part of world population breeds in New Zealand.

3. That New Zealand encourage the promotion in other countries, within the ranges of New Zealand seabirds, and among their fishers, a knowledge and understanding in local languages, of the importance of those seabird species to both countries.

4. That New Zealand continue to foster, encourage and provide opportunities for the development of any technology which enables the tracking of seabird species at risk, especially among those pre-breeding and non-breeding parts of their populations.

5. That New Zealand continue to encourage the development of DNA techniques which can assist the identification of individual populations within species which may have a differential risk of incidental capture in fisheries, according to breeding location.

6. That New Zealand continue to encourage the co-operation of other countries in the assessing of current and new fisheries, for their potential to impact populations of the seabird community.

7. That New Zealand continue to foster, develop, test and promote the operation of a wide range of mitigation devices, management practices and incentives which improve sustainable fishing practices and encourage the reduction and elimination of incidental bird capture in fisheries.

8. That New Zealand explore avenues for co-operative investigation and observations, with organisations and fishers especially in Australia, on both sides of the North Pacific, Chile, Peru, Ecuador and southern Africa, to document fishery/seabird interactions.

7. Acknowledgements

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