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Level 1	Biogeographic region (14)										
Level 2	Environment type	Estuarine				Marine					
Level 3	Depth	Intertidal	Subtidal	Intertidal (MHWS – MLWS)			Shallow Subtidal (MLWS – 30m)			Deep Subtidal (30m – 200m)	
Level 4	Exposure	low	low	low	med	high	low	med	high	low	
Level 5	Habitat type	Mud flat	Mud flat	Mud flat	Sandy beach	Sandy beach	Shallow mud	Shallow sand	Shallow sand	Deep mud	
		Sand beach	Sand flat		Gravel beach	Gravel beach		Shallow gravel field	Shallow gravel field	Deep sand	
		Gravel beach	Gravel field		Cobble beach	Cobble beach		Shallow cobble field	Shallow cobble field	Deep gravel field	
		Cobble beach	Cobble field		Boulder beach	Boulder beach		Shallow boulder reef	Shallow boulder reef	Deep cobble field	
		Boulder beach	Boulder reef		Rocky platform	Rocky platform		Shallow Rocky reef	Shallow Rocky reef	Deep boulder field	
		Rocky platform	Rocky reef					Shallow Biogenic reef	Shallow Biogenic reef	Deep rocky reef	
			Biogenic reef							Deep Biogenic reef	

APPENDIX 1. COASTAL CLASSIFICATION AND MAPPING SCHEME (MHWS -200 METRE DEPTH)
(MINISTRY OF FISHERIES AND DEPARTMENT OF CONSERVATION 2008)

Variable	Categories	Data sources and variations from Coastal Classification and Mapping Scheme
Bioregions	Chatham Islands, Eastern North Island, East Coast South Island, Fiordland, Kermadec Islands, North Cook Strait, North Eastern, Snares Islands, South Cook Strait, Southern South island, Subantarctic Islands, Three Kings Islands, Western North Island, West Coast South Island	Coastline from LINZ 1:50 000 topographic vector data sourced from Land Information New Zealand data. Crown Copyright Reserved. Boundaries of NZ territorial Sea from LINZ (2004) Sourced from Land Information New Zealand data. Crown Copyright Reserved Estuaries mapped by NIWA National Estuary classification (T. Hume).
Depth	Shallow 0-30 metres Deep 30-200 metres Upper Slope 200-500 metres Mid Slope 500-1000 metres Lower Slope 1000-4000 metres	Compiled bathymetric contours from NIWA Nautical chart data sourced from Land Information New Zealand data. Crown Copyright reserved. RNZN Hydrographic Office fairsheet points. 50m contour used instead of 30m contour for Subantarctic Islands Bioregion. No substrata used for continental slope categories (>200m).
Substrata	Mud Sand Reef Gravel Biogenic Volcanic	NZ Combined Ocean Sediments (NZCOS GIS Bardsley <i>et al.</i> 2008) derived from coastal 1:200 000, oceanic 1:1 000 000 and regional sediments 1:6 000 000 sediment charts. Kermadec Islands substrata mapped as volcanic in some areas as these only substrata data available. Rocky reef digitised by C. Wild for DOC from shoal on nautical charts (Sourced from Land Information New Zealand data. Crown Copyright Reserved) and maps from C. Duffy (DOC). Intertidal mudflat, beach, rocky shore derived from LINZ 1:50 000 topographic vector data sourced from Land Information New Zealand data. Crown Copyright Reserved. Intertidal zone defined as coastal mud, sand and rock below the LINZ 1:50 000 coast line sourced from Land Information New Zealand data. Crown Copyright Reserved. No data available to map subtidal or intertidal cobbles or boulders or intertidal gravel. Biogenic habitats mapped from scientific literature, a survey of scientists in the North Eastern Bioregion, seagrass added from aerial photo interpretation (S. Byers and A. Wild) and published reports (e.g. Hewitt and Funnell 2005, Robertson and Stevens 2003-2009; Swartz et al. 2006). Mangrove and saltmarsh added from LINZ 1:50 000 topographic database and from the Landcare Research Land Cover Database 2. Biogenic habitats mapped according to the dominant taxa (rather than by depth or exposure) but grouped under one category (biogenic habitats) for analysis.
Exposure	Sheltered <1 metre Moderate 1-1.8 metre Exposed >1.8 metre High Current > 0.5 metres/second	Categories of mean annual significant wave height GIS raster (grid) output from wave model of R.Gorman NIWA. Data were binned to three categories, converted to vector format, boundaries smoothed, model artefacts merged. High tidal current category added from Marine Environment Classification data of tidal flow. (Snelder <i>et al.</i> 2005).

APPENDIX 2. DATA SOURCES FOR HABITAT VARIABLES AND CATEGORIES MAPPED.

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Chatham Islands km ²	Type I Marine Reserve	Type II MPA No-take Marine Park	Type II MPA Cable or Pipeline Zone	Type II MPA No trawl, danish seine, dredge or setnet	Type II MPA No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Mud									4,811.0
Deep Gravel									3,844.4
Upper Slope									1,325.8
Moderate Shallow Gravel									630.5
Exposed Shallow Gravel									422.8
Exposed Shallow Reef									416.2
Deep Reef									258.8
Moderate Shallow Reef									191.2
Mid Slope									153.6
Estuarine Gravel									117.7
Mudflat									72.0
Shallow Mud									32.3
Estuarine									16.8
Exposed Rocky Shore									10.3
Moderate Rocky Shore									5.9
Estuarine Beach									3.4
Moderate Beach									3.4
Exposed Beach									2.0
Estuarine Rocky Shore									0.5

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

East Coast South Island km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Sand									2,121.5
Deep Mud									2,017.8
Moderate Shallow Sand									1,231.0
Shallow Mud									723.3
High Current Deep Sand									699.6
Exposed Shallow Sand	0.33						0.33	0.33	646.1
Moderate Shallow Gravel									527.0
Deep Gravel									511.7
Mid Slope									456.5
Sheltered Shallow Sand									448.0
Upper Slope									331.2
Lower Slope									326.9
High Current Deep Mud									309.4
Estuarine									188.6
Moderate Beach									180.7
Moderate Shallow Reef									121.1
High Current Shallow Sand									88.9
Estuarine Mud									73.1
Exposed Shallow Gravel									61.3
High Current Deep Gravel									42.7
Exposed Shallow Reef	1.14						1.14	1.14	31.9
Sheltered Shallow Reef									26.6
Estuarine Sand	0.61						0.61	0.61	22.8
Mudflat	0.01						0.006	0.01	21.6
Deep Reef									20.2
Sheltered Shallow Gravel									13.4
Biogenic									12.8
Estuarine Reef	0.07						0.07	0.07	12.5
High Current Shallow Reef									7.5
Moderate Rocky Shore									3.6
High Current Shallow Mud									2.3
Sheltered Beach									1.7
Exposed Beach									1.4
Estuarine Beach									1.3
High Current Deep Reef									0.8
Estuarine Rocky Shore									0.4
Exposed Rocky Shore									0.2
High Current Rocky Shore									0.02

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Eastern North Island km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Mud	1.30						1.30	1.30	7,025.7
Deep Sand	5.21						5.21	5.21	951.7
Moderate Shallow Sand	1.30						1.30	1.30	834.5
Shallow Mud	0.78						0.78	0.78	599.9
Upper Slope									587.7
Moderate Shallow Reef	2.39						2.39	2.39	284.8
Moderate Shallow Gravel									219.0
High Current Deep Mud									217.8
Mid Slope									175.0
Exposed Shallow Reef	9.30						9.30	9.30	174.1
Deep Gravel									172.0
Deep Reef	2.91						2.91	2.91	110.3
Sheltered Shallow Sand									103.2
Exposed Shallow Sand	2.32						2.32	2.32	50.8
Lower Slope									30.7
High Current Shallow Reef									22.3
Estuarine	0.001						0.001	0.001	16.6
Moderate Rocky Shore	0.37						0.37	0.37	12.4
Exposed Rocky Shore	0.74						0.74	0.74	8.8
High Current Shallow Mud									8.6
Moderate Beach	0.22						0.22	0.22	7.5
Sheltered Shallow Reef									6.5
Sheltered Shallow Gravel									3.4
High Current Shallow Sand									2.4
High Current Deep Reef									1.9
Estuarine Beach	0.002						0.002	0.002	1.7
Exposed Beach	0.12						0.12	0.12	1.6
Mudflat									1.3
Sheltered Shingle									1.1
High Current Deep Sand									0.8
Sheltered Beach									0.8
Sheltered Rocky Shore									0.6
Biogenic									0.6
High Current Rocky Shore									0.3
Estuarine Mud									0.3
Estuarine Sand									0.1
High Current Beach									0.1
Estuarine Reef									0.1

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Fiordland km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Lower Slope									3,449.9
Deep Sand									1,724.4
Upper Slope									1,639.9
Mid Slope									1,392.8
Deep Mud				0.10		0.10		0.10	462.3
Estuarine Mud	55.07			275.30		275.30	55.07	330.36	458.4
Exposed Shallow Reef				0.04		0.04		0.04	279.3
High Current Deep Sand									200.6
Estuarine Reef	16.98			58.69		58.69	16.98	75.66	171.7
Estuarine Sand	29.78			41.18		41.18	29.78	70.95	151.6
Deep Reef				0.005		0.00		0.005	126.2
Exposed Shallow Sand									60.5
Shallow Mud				0.06		0.06		0.06	52.5
Deep Gravel									24.3
Exposed Rocky Shore				0.001		0.00		0.001	20.6
Estuarine	0.10			0.01		0.01	0.10	0.11	10.4
Estuarine Beach	0.64			2.87		2.87	0.64	3.52	4.4
Estuarine Rocky Shore	0.12			0.15		0.15	0.12	0.27	3.5
High Current Shallow Reef									2.6
High Current Deep Mud									1.3
Exposed Beach									1.2
High Current Deep Reef									1.1
Mudflat	0.74			0.27		0.27	0.74	1.00	1.0
High Current Shallow Sand									0.4
Sheltered Shallow Reef				0.03		0.03		0.03	0.1
Rocky Shore									0.1
High Current Rocky Shore									0.03

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Kermadec Islands km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Mid Slope	3002.27						3,002.3	3002.27	3,002.3
Lower Slope	2777.75						2,777.8	2777.75	2,777.8
Upper Slope	950.34						950.34	950.34	950.3
Deep Volcanic	345.82						345.82	345.82	345.8
Exposed Shallow Volcanic	30.09						30.09	30.09	30.1
Moderate Shallow Volcanic	26.11						26.11	26.11	26.1
Deep Reef	23.10						23.10	23.10	23.1
Exposed Shallow Reef	16.60						16.60	16.60	16.6
Moderate Shallow Reef	5.67						5.67	5.67	5.7
Exposed Rocky Shore	0.87						0.87	0.87	0.9
Moderate Rocky Shore	0.65						0.65	0.65	0.6

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

North Cook Strait km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Mud			82.16			82.16	82.16	82.16	3,265.2
Deep Sand	1.16		13.89			13.89	15.05	15.05	2,026.2
High Current Deep Sand	15.71		12.07			12.07	27.78	27.78	1,474.7
Upper Slope			30.16			30.16	30.16	30.16	1,248.8
Mid Slope									1,093.0
Lower Slope									755.6
Moderate Shallow Sand	1.42		0.76			0.76	2.18	2.18	707.3
Sheltered Shallow Sand				0.12		0.12	0.123	0.123	516.5
High Current Shallow Sand	3.39		1.20			1.20	4.58	4.58	499.1
High Current Deep Gravel			50.61			50.61	50.61	50.61	432.3
Shallow Mud			0.15			0.15	0.15	0.15	413.9
Exposed Shallow Sand			0.03			0.03	0.03	0.03	167.6
Moderate Shallow Reef	2.95		1.10		0.32	1.42	4.05	4.37	166.0
High Current Deep Mud	3.63						3.63	3.63	152.4
Deep Gravel			24.28			24.28	24.28	24.28	149.7
Exposed Shallow Reef			6.06			6.06	6.06	6.06	119.9
High Current Shallow Gravel									109.0
High Current Shallow Reef	3.40		0.39		0.01	0.39	3.79	3.80	53.0
Estuarine									50.7
Exposed Shallow Gravel			14.25			14.25	14.25	14.25	50.1
Deep Reef	0.07						0.07	0.07	42.5
Moderate Shallow Gravel									39.5
Estuarine Mud									36.0
Sheltered Shallow Reef				1.41		1.41	1.41	1.41	19.8
Sheltered Shallow Gravel									11.7
Estuarine Sand									11.5
Estuarine Reef									10.6
High Current Deep Reef	0.37		0.54			0.54	0.91	0.91	8.9
Moderate Beach									8.2
Sheltered Beach				0.02		0.02	0.02	0.02	8.0
Moderate Rocky Shore	0.09		0.02		0.09	0.12	0.12	0.21	6.4
Exposed Rocky Shore			0.72			0.72	0.72	0.72	6.3
Exposed Beach			0.21			0.21	0.21	0.21	2.5
Sheltered Rocky Shore				0.50		0.50	0.50	0.50	1.9
Biogenic									1.8
High Current Rocky Shore	0.18					0.00	0.18	0.18	1.5
Estuarine Beach									0.9
Estuarine Rocky Shore						0.00			0.8
High Current Beach	0.05					0.00	0.05	0.05	0.7
Mudflat									0.3

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

North Eastern km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Sand	13.39	0.01	447.69	0.47		448.17	461.09	461.56	13,054.6
Deep Mud	2.63		342.87	0.34		343.21	345.50	345.84	8,841.8
Upper Slope	7.16						7.16	7.16	3,502.1
Mid Slope									2,247.7
Moderate Shallow Sand	7.36	2.49	2.79	0.95		6.23	12.64	13.59	1,894.5
High Current Deep Sand									1,865.2
Shallow Mud	5.45		53.00	4.37		57.37	58.45	62.82	1,364.1
Sheltered Shallow Sand	5.29		0.82		0.51	1.33	6.11	6.62	697.2
Lower Slope									664.4
Moderate Shallow Reef	9.28	0.69	1.89	8.02		10.59	11.85	19.87	494.0
Biogenic	3.59	0.14	11.85		0.53	12.51	15.58	16.10	488.3
High Current Shallow Mud			1.57			1.57	1.57	1.57	324.9
Estuarine Sand	2.99						2.99	2.99	318.5
Deep Reef	15.12		4.26			4.26	19.38	19.38	275.7
High Current Deep Mud									271.8
Mudflat	5.01					0.00	5.01	5.01	252.2
Exposed Shallow Sand									231.1
High Current Shallow Sand	0.16		1.11		0.44	1.55	1.27	1.71	229.7
Deep Gravel			8.21			8.21	8.21	8.21	220.7
High Current Deep Gravel									151.2
Estuarine Beach	0.03			0.08		0.08	0.03	0.11	117.9
Sheltered Shallow Reef	1.03		0.25		0.17	0.42	1.27	1.45	111.0
High Current Shallow Gravel									96.5
High Current Beach					0.02	0.02		0.02	41.1
High Current Shallow Reef			0.07		0.08	0.15	0.07	0.15	41.0
Estuarine Reef	0.06			2.28		2.28	0.06	2.34	34.0
Moderate Beach	0.05	0.12	0.12	0.18		0.42	0.29	0.46	33.5
Estuarine Mud				1.46		1.46		1.46	33.2
Sheltered Shallow Gravel									30.8
Moderate Shallow Gravel			2.59			2.59	2.59	2.59	27.4
Moderate Rocky Shore	0.38	0.12	0.02	0.32		0.47	0.52	0.84	26.4
Estuarine									19.8
Sheltered Rocky Shore	0.16		0.09		0.001	0.09	0.25	0.25	17.0
Exposed Shallow Gravel									14.8
High Current Deep Reef									10.4
Sheltered Beach	0.03		0.05		0.06	0.11	0.08	0.14	9.2
Exposed Shallow Reef									6.2
Exposed Beach									6.0
Estuarine Rocky Shore				0.11		0.11		0.11	4.5
High Current Rocky Shore					0.03	0.03		0.03	2.1
Exposed Rocky Shore									0.4
Estuarine Gravel									0.2

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Snares Islands km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Gravel									1,439.9
Upper Slope									629.4
Mid Slope									79.1
Exposed Shallow Reef									2.4
Exposed Shallow Gravel									1.5
Moderate Shallow Reef									0.7
Deep Reef									0.6
Moderate Shallow Gravel									0.5
Exposed Rocky Shore									0.4
Moderate Rocky Shore									0.01

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

South Cook Strait km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
High Current Deep Sand	0.54		45.83			45.83	46.38	46.38	3,208.6
Deep Mud	1.02						1.02	1.02	2,167.7
Deep Sand			2.32	0.02	2.34	2.34	2.32	2.34	2,092.1
Shallow Mud	21.29						21.29	21.29	1,177.4
High Current Deep Gravel			85.03			85.03	85.03	85.03	545.3
Deep Gravel									468.1
Estuarine Mud	0.71						0.71	0.71	333.9
High Current Deep Mud	0.21						0.21	0.21	307.9
Sheltered Shallow Sand	0.04	2.83		0.13	2.96	2.87	2.87	3.00	306.5
Estuarine Sand	3.66						3.66	3.66	288.0
High Current Shallow Sand	0.23		0.27	0.01	0.28	0.49	0.49	0.51	264.2
Upper Slope			0.06		0.06	0.06	0.06	0.06	162.0
Mudflat	4.35						4.35	4.35	159.6
Biogenic	0.15			0.00	0.00	0.15	0.15	0.15	108.8
High Current Shallow Mud									106.5
Estuarine Reef	1.45						1.45	1.45	99.9
Exposed Shallow Sand									95.8
Moderate Shallow Sand									94.5
Sheltered Shallow Reef	4.16	0.59		1.06	1.65	4.76	5.81	5.81	61.5
High Current Shallow Reef	0.13	0.07		0.07	0.14	0.19	0.19	0.26	38.0
High Current Deep Reef	0.01	0.06			0.06	0.07	0.07	0.07	29.0
Exposed Shallow Reef									24.0
Deep Reef			0.04	0.004	0.04	0.04	0.04	0.04	17.9
Estuarine									15.7
Estuarine Beach	0.02				0.00	0.02	0.02	0.02	14.7
Moderate Shallow Reef									13.5
High Current Shallow Gravel									13.1
Sheltered Beach	0.07						0.07	0.07	10.9
Exposed Shallow Gravel									4.3
Sheltered Rocky Shore	0.32	0.10		0.17	0.27	0.43	0.43	0.60	3.6
Exposed Beach									2.6
Exposed Rocky Shore									2.0
High Current Beach									1.1
Estuarine Rocky Shore									0.8
Sheltered Shallow Gravel									0.7
High Current Rocky Shore									0.2
Estuarine Gravel									0.1
Moderate Beach									0.1
Moderate Rocky Shore									0.1

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Southern South Island km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Sand									7,899.5
High Current Deep Sand	0.07			0.23		0.23	0.07	0.31	2,593.2
Upper Slope									2,194.9
Deep Gravel									1,259.8
Exposed Shallow Sand									1,221.3
High Current Deep Gravel	0.002			0.18		0.18	0.002	0.18	1,161.8
Moderate Shallow Gravel									1,031.4
Moderate Shallow Sand									700.6
Deep Mud									528.0
High Current Shallow Sand	1.00			5.22		5.22	1.00	6.22	459.2
High Current Shallow Gravel	0.16			0.74		0.74	0.16	0.91	454.0
Exposed Shallow Reef									214.9
Shallow Mud									172.9
Biogenic				4.08		4.08		4.08	157.0
High Current Shallow Reef	0.94			1.02		1.02	0.94	1.96	144.3
Exposed Shallow Gravel									141.7
Moderate Shallow Reef									123.1
Mudflat				6.85		6.85		6.85	99.2
Estuarine Sand	3.84			12.11		12.11	3.84	15.95	75.7
Deep Reef									69.2
Estuarine				0.000		0.00		0.00	44.5
Estuarine Reef	1.56			15.00		15.00	1.56	16.57	44.3
Estuarine Gravel	0.69			19.51		19.51	0.69	20.20	38.7
High Current Deep Reef									31.3
Estuarine Mud	2.45			23.17		23.17	2.45	25.63	26.3
Sheltered Shallow Sand									24.8
High Current Beach									24.3
Exposed Beach									12.8
Moderate Beach									11.4
Exposed Rocky Shore									9.4
Sheltered Shallow Reef									5.8
Estuarine Beach	0.02			0.53		0.53	0.02	0.55	3.4
Moderate Rocky Shore									3.3
High Current Rocky Shore									1.7
Sheltered Shallow Gravel									1.0
Sheltered Beach									0.5
Estuarine Rocky Shore	0.01			0.06		0.06	0.01	0.07	0.4
Sheltered Rocky Shore									0.1

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Subantarctic Islands km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Gravel	2,298						2,297.71	2297.71	5,776.5
Upper Slope	738.18						738.18	738.18	1,676.7
Lower Slope	412.04						412.04	412.04	1,493.2
Mid Slope	495.06						495.06	495.06	1,274.0
Deep Mud	552.17						552.17	552.17	553.7
Deep Sand									497.7
Exposed Shallow Gravel	301.35						302.42	301.35	358.4
Moderate Shallow Gravel	88.34						88.60	88.34	106.5
Estuarine Gravel	74.09						74.16	74.09	78.9
Estuarine Reef	34.72						35.01	34.72	40.8
Moderate Shallow Reef	28.19						28.27	28.19	30.7
Exposed Shallow Reef	27.23						27.33	27.23	29.5
Deep Reef	3.06						3.06	3.06	9.6
Exposed Shallow Sand									4.1
Exposed Rocky Shore	2.02						2.02	2.02	2.9
Estuarine Rocky Shore	1.53						1.53	1.53	1.5
Moderate Rocky Shore	1.27						1.27	1.27	1.4
Moderate Beach	0.11						0.11	0.11	0.1
Estuarine	0.01						0.01	0.01	0.01
Estuarine Beach	0.01						0.01	0.01	0.01

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Three Kings km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Upper Slope									925.6
High Current Deep Sand									796.7
Mid Slope									470.4
High Current Deep Reef									14.0
High Current Deep Gravel									8.8
Deep Sand									6.3
High Current Shallow Reef									4.8
High Current Rocky Shore									0.01

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

West Coast South Island km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Mud									6,027.3
Deep Sand									2,042.7
Exposed Shallow Sand									1,651.9
Mid Slope									858.8
Lower Slope									773.4
Upper Slope									584.8
Shallow Mud									492.5
Moderate Shallow Sand									419.7
Exposed Shallow Reef									123.7
Deep Reef									74.5
Estuarine									40.8
Deep Gravel									21.2
Exposed Beach									12.3
Moderate Shallow Reef									11.4
Exposed Rocky Shore									5.7
Estuarine Beach									5.5
Biogenic									4.4
Moderate Beach									3.7
Mudflat									1.2
Estuarine Sand									1.0
Exposed Shallow Gravel									1.0
Moderate Rocky Shore									0.7

APPENDIX 4.1 AREA (KM²) OF HABITATS IN MARINE PROTECTED AREAS IN EACH COASTAL MARINE BIOREGION.

Western North Island km ²	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Total habitat in bioregion
Deep Sand	0.36		264.23	0.11		264.34	264.59	264.70	9,026.1
Exposed Shallow Sand	0.02		53.89	0.44		54.33	53.91	54.34	1,858.5
Deep Mud									1,180.0
Moderate Shallow Sand	24.79		6.79	1.34		8.13	31.58	32.92	639.6
Estuarine Sand									530.4
Mudflat									508.8
High Current Shallow Sand									203.1
Upper Slope									185.7
Biogenic									165.2
Exposed Shallow Reef			0.002			0.00	0.002	0.002	62.9
Moderate Shallow Reef	6.44			1.41		1.41	6.44	7.85	51.0
Exposed Beach			0.97			0.97	0.97	0.97	36.4
Estuarine									26.2
Exposed Shallow Gravel									22.7
Deep Gravel									18.8
Estuarine Beach									16.0
Shallow Mud	0.15			0.92		0.92	0.15	1.07	10.9
Deep Reef									9.8
Sheltered Shallow Sand									7.9
Exposed Rocky Shore			0.48			0.48	0.48	0.48	6.7
High Current Deep Sand									5.3
Moderate Beach	0.12		0.09	0.03		0.12	0.21	0.24	4.9
Moderate Rocky Shore	0.42						0.42	0.42	3.3
High Current Shallow Reef									2.0
Estuarine Mud									1.9
Estuarine Rocky Shore									1.4
Sheltered Shallow Reef									1.3
Estuarine Reef									0.8
Sheltered Beach									0.6
High Current Rocky Shore									0.5
High Current Beach									0.4
Moderate Shallow Gravel									0.4
Sheltered Rocky Shore									0.1

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Chatham Islands km ²	Mataitai	Taipure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Mud									15.30	4,811.0
Deep Gravel									536.44	3,844.4
Upper Slope										1,325.8
Moderate Shallow Gravel							0.41		485.04	630.5
Exposed Shallow Gravel							0.11		309.09	422.8
Exposed Shallow Reef							0.50		309.31	416.2
Deep Reef									30.13	258.8
Moderate Shallow Reef							0.64		155.65	191.2
Mid Slope										153.6
Estuarine Gravel							0.16		6.15	117.7
Mudflat										72.0
Shallow Mud									0.79	32.3
Estuarine									0.40	16.8
Exposed Rocky Shore			0.14				0.13		9.68	10.3
Moderate Rocky Shore			0.07				0.24		5.60	5.9
Estuarine Beach							0.02		0.06	3.4
Moderate Beach							0.07		3.30	3.4
Exposed Beach							0.012		1.98	2.0
Estuarine Rocky Shore							0.02		0.48	0.5

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

East Coast South Island km ²	Maratani	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Sand		0.26							0.81	2,121.5
Deep Mud									13.88	2,017.8
Moderate Shallow Sand					1.31	0.03		0.40		1,231.0
Shallow Mud	0.07								0.08	723.3
High Current Deep Sand										699.6
Exposed Shallow Sand		1.21						0.30		646.1
Moderate Shallow Gravel										527.0
Deep Gravel										511.7
Mid Slope										456.5
Sheltered Shallow Sand										448.0
Upper Slope										331.2
Lower Slope										326.9
High Current Deep Mud										309.4
Estuarine					0.27					188.6
Moderate Beach					0.14					180.7
Moderate Shallow Reef						0.33				121.1
High Current Shallow Sand		1.76						2.44		88.9
Estuarine Mud	7.22	22.57						24.29	7.77	73.1
Exposed Shallow Gravel										61.3
High Current Deep Gravel										42.7
Exposed Shallow Reef		1.26						0.12		31.9
Sheltered Shallow Reef	0.02								0.02	26.6
Estuarine Sand		7.87			0.18			12.05		22.8
Mudflat	0.14	1.27			0.68			1.37	0.15	21.6
Deep Reef		0.04								20.2
Sheltered Shallow Gravel										13.4
Biogenic					0.014					12.8
Estuarine Reef	0.45	3.09						4.25	0.48	12.5
High Current Shallow Reef		0.25						0.31		7.5
Moderate Rocky Shore					0.04	0.02				3.6
High Current Shallow Mud										2.3
Sheltered Beach										1.7
Exposed Beach										1.4
Estuarine Beach	0.01	0.02			0.08			0.16	0.011	1.3
High Current Deep Reef										0.8
Estuarine Rocky Shore								0.011		0.4
Exposed Rocky Shore										0.2
High Current Rocky Shore										0.02

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Eastern North Island km ²	Maratani		Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
	Taiapure									
Deep Mud							12.34	7.07	621.29	7,025.7
Deep Sand							74.81		274.12	951.7
Moderate Shallow Sand	2.64	16.81					59.84	104.19	511.33	834.5
Shallow Mud	2.70	9.08			0.56		70.95	11.72	335.43	599.9
Upper Slope										587.7
Moderate Shallow Reef	8.18	30.16					29.10	2.91	250.43	284.8
Moderate Shallow Gravel								140.51	53.95	219.0
High Current Deep Mud							0.01		22.61	217.8
Mid Slope										175.0
Exposed Shallow Reef							48.35		109.35	174.1
Deep Gravel								42.28		172.0
Deep Reef							11.63		21.18	110.3
Sheltered Shallow Sand	0.33						15.55	10.74	76.76	103.2
Exposed Shallow Sand							14.74		33.67	50.8
Lower Slope										30.7
High Current Shallow Reef							0.19		22.09	22.3
Estuarine					2.06		4.42	0.58	0.23	16.6
Moderate Rocky Shore	0.15	0.51					3.31	0.04	8.67	12.4
Exposed Rocky Shore							3.45		4.59	8.8
High Current Shallow Mud							0.26		8.38	8.6
Moderate Beach	0.15	0.75			0.04		0.92	0.82	5.50	7.5
Sheltered Shallow Reef	0.50						3.35	0.46	2.63	6.5
Sheltered Shallow Gravel									3.40	3.4
High Current Shallow Sand							1.60		0.85	2.4
High Current Deep Reef									1.93	1.9
Estuarine Beach					0.06				0.001	1.7
Exposed Beach							0.08		1.43	1.6
Mudflat					0.09			0.08	0.25	1.3
Sheltered Shingle								0.59	0.51	1.1
High Current Deep Sand							0.13		0.68	0.8
Sheltered Beach	0.07						0.20		0.55	0.8
Sheltered Rocky Shore							0.64			0.6
Biogenic					0.13		0.33	0.03	0.0003	0.6
High Current Rocky Shore									0.31	0.3
Estuarine Mud									0.26	0.3
Estuarine Sand								0.11		0.1
High Current Beach									0.06	0.1
Estuarine Reef									0.05	0.1

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Fiordland km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Lower Slope										3,449.9
Deep Sand								4.54		1,724.4
Upper Slope										1,639.9
Mid Slope										1,392.8
Deep Mud								1.01		462.3
Estuarine Mud								99.44		458.4
Exposed Shallow Reef								8.01		279.3
High Current Deep Sand								2.91		200.6
Estuarine Reef								79.60		171.7
Estuarine Sand								80.59		151.6
Deep Reef								3.64		126.2
Exposed Shallow Sand								0.56		60.5
Shallow Mud								0.001		52.5
Deep Gravel										24.3
Exposed Rocky Shore								0.91		20.6
Estuarine								0.000		10.4
Estuarine Beach								0.41		4.4
Estuarine Rocky Shore								2.73		3.5
High Current Shallow Reef								1.12		2.6
High Current Deep Mud										1.3
Exposed Beach										1.2
High Current Deep Reef								0.30		1.1
Mudflat										1.0
High Current Shallow Sand								0.04		0.4
Sheltered Shallow Reef										0.1
Rocky Shore										0.1
High Current Rocky Shore								0.03		0.03

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Kermadec Islands km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Mid Slope										3,002.3
Lower Slope										2,777.8
Upper Slope										950.3
Deep Volcanic										345.8
Exposed Shallow Volcanic										30.1
Moderate Shallow Volcanic										26.1
Deep Reef										23.1
Exposed Shallow Reef										16.6
Moderate Shallow Reef										5.7
Exposed Rocky Shore										0.9
Moderate Rocky Shore										0.6

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

North Cook Strait km ²	Maratani	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Mud									563.90	3,265.2
Deep Sand									227.96	2,026.2
High Current Deep Sand									210.12	1,474.7
Upper Slope									47.95	1,248.8
Mid Slope									8.61	1,093.0
Lower Slope										755.6
Moderate Shallow Sand							0.23		424.51	707.3
Sheltered Shallow Sand				0.003			0.66	2.39	436.85	516.5
High Current Shallow Sand			0.02	0.10					160.31	499.1
High Current Deep Gravel									53.70	432.3
Shallow Mud		0.85							408.97	413.9
Exposed Shallow Sand									56.22	167.6
Moderate Shallow Reef		2.16					0.26	0.000	155.61	166.0
High Current Deep Mud									86.52	152.4
Deep Gravel									78.99	149.7
Exposed Shallow Reef									112.50	119.9
High Current Shallow Gravel									4.78	109.0
High Current Shallow Reef			0.04	0.003					26.70	53.0
Estuarine				0.001			35.27		0.01	50.7
Exposed Shallow Gravel									35.87	50.1
Deep Reef									18.27	42.5
Moderate Shallow Gravel									27.67	39.5
Estuarine Mud							35.91		0.13	36.0
Sheltered Shallow Reef							0.03	0.80	12.02	19.8
Sheltered Shallow Gravel									3.86	11.7
Estuarine Sand					0.83		9.47		2.02	11.5
Estuarine Reef				0.000			9.37		1.24	10.6
High Current Deep Reef									2.56	8.9
Moderate Beach		0.013					0.00	0.000	8.23	8.2
Sheltered Beach				0.02	0.0004		0.04	0.04	7.91	8.0
Moderate Rocky Shore		0.02					0.03		6.21	6.4
Exposed Rocky Shore									5.62	6.3
Exposed Beach									2.34	2.5
Sheltered Rocky Shore							0.04	0.33	1.07	1.9
Biogenic					0.70		1.76			1.8
High Current Rocky Shore			0.38	0.40					0.44	1.5
Estuarine Beach							0.12		0.25	0.9
Estuarine Rocky Shore				0.06			0.69		0.05	0.8
High Current Beach				0.17	0.001				0.45	0.7
Mudflat					0.05		0.28			0.3

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

North Eastern km ²	Maratani	Talapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Sand	5.81		0.01				61.99	716.56	14.50	13,054.6
Deep Mud	0.45						74.25	535.17	203.68	8,841.8
Upper Slope										3,502.1
Mid Slope										2,247.7
Moderate Shallow Sand	4.20	28.08	0.03				215.63	748.52	39.16	1,894.5
High Current Deep Sand							200.51	103.95		1,865.2
Shallow Mud	12.07	10.16	0.05				705.70	215.93	69.60	1,364.1
Sheltered Shallow Sand					0.01		351.79	295.85	5.38	697.2
Lower Slope										664.4
Moderate Shallow Reef	4.63	5.96	0.87				49.50	98.41	36.12	494.0
Biogenic	5.81		3.95	0.21	0.61		297.48	78.20	7.55	488.3
High Current Shallow Mud	0.16						299.90	13.88	7.98	324.9
Estuarine Sand		11.49			0.39		281.49	19.99	7.15	318.5
Deep Reef			0.00				0.82	20.61	11.02	275.7
High Current Deep Mud							0.37	6.51	22.57	271.8
Mudflat		2.44	15.20	3.60	0.05		195.07	27.96	1.59	252.2
Exposed Shallow Sand								113.03		231.1
High Current Shallow Sand	1.15						54.92	73.45		229.7
Deep Gravel							0.87	8.02		220.7
High Current Deep Gravel							0.15	0.62		151.2
Estuarine Beach					1.86		23.50	88.99	1.53	117.9
Sheltered Shallow Reef					0.02		65.07	16.95	0.61	111.0
High Current Shallow Gravel			0.001				57.00	0.28		96.5
High Current Beach	1.61						0.56	40.33		41.1
High Current Shallow Reef	0.31		0.01				12.38	0.66	7.01	41.0
Estuarine Reef		0.07			0.03		17.89	0.12	2.76	34.0
Moderate Beach	0.33	1.39					5.61	13.90	1.41	33.5
Estuarine Mud		1.84	0.000	0.01			14.10	8.47	3.66	33.2
Sheltered Shallow Gravel							30.84			30.8
Moderate Shallow Gravel							5.87	0.64		27.4
Moderate Rocky Shore	0.15	0.17	0.81				5.09	5.43	4.46	26.4
Estuarine		0.01					0.12	0.01	0.000	19.8
Sheltered Rocky Shore							13.57	1.52	0.21	17.0
Exposed Shallow Gravel										14.8
High Current Deep Reef								0.09	0.21	10.4
Sheltered Beach					0.001		4.33	2.08	0.03	9.2
Exposed Shallow Reef								0.58	2.18	6.2
Exposed Beach								5.50	0.09	6.0
Estuarine Rocky Shore							2.85	0.06	0.28	4.5
High Current Rocky Shore							1.86			2.1
Exposed Rocky Shore								0.05	0.07	0.4
Estuarine Gravel							0.18			0.2

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Snares Islands km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Gravel										1,439.9
Upper Slope										629.4
Mid Slope										79.1
Exposed Shallow Reef										2.4
Exposed Shallow Gravel										1.5
Moderate Shallow Reef										0.7
Deep Reef										0.6
Moderate Shallow Gravel										0.5
Exposed Rocky Shore			0.37							0.4
Moderate Rocky Shore			0.01							0.01

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

South Cook Strait km ²	Maratani	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
High Current Deep Sand			0.00					2.88	26.95	3,208.6
Deep Mud							71.21			2,167.7
Deep Sand										2,092.1
Shallow Mud		15.23	0.33				3.96	6.25	16.99	1,177.4
High Current Deep Gravel									4.98	545.3
Deep Gravel										468.1
Estuarine Mud		0.00					55.74	63.49	65.94	333.9
High Current Deep Mud								19.00	0.36	307.9
Sheltered Shallow Sand		6.83	2.51		0.02		1.96	0.15		306.5
Estuarine Sand				0.000	15.15		46.81	44.05	65.99	288.0
High Current Shallow Sand			4.43	0.004	0.59		0.89	10.57	37.33	264.2
Upper Slope										162.0
Mudflat			43.65		11.33		4.91	40.08		159.6
Biogenic			38.18		6.00		53.56	7.35		108.8
High Current Shallow Mud			0.33				5.64	18.27		106.5
Estuarine Reef				0.02			17.28	13.51	23.91	99.9
Exposed Shallow Sand					0.36			0.21	0.15	95.8
Moderate Shallow Sand			2.00							94.5
Sheltered Shallow Reef		0.86					8.26	0.22	4.35	61.5
High Current Shallow Reef			0.15	0.04			0.91	6.35	3.82	38.0
High Current Deep Reef			0.07					0.33	1.03	29.0
Exposed Shallow Reef					0.10			0.02	0.09	24.0
Deep Reef							0.51			17.9
Estuarine					0.05			0.003		15.7
Estuarine Beach				0.02	0.13		0.60	1.41	1.16	14.7
Moderate Shallow Reef										13.5
High Current Shallow Gravel									0.95	13.1
Sheltered Beach					0.07		0.09	0.26	0.12	10.9
Exposed Shallow Gravel										4.3
Sheltered Rocky Shore		0.59					0.21	0.03	0.12	3.6
Exposed Beach					0.21			0.13	0.09	2.6
Exposed Rocky Shore										2.0
High Current Beach			0.65		0.22			0.25		1.1
Estuarine Rocky Shore								0.56	0.05	0.8
Sheltered Shallow Gravel										0.7
High Current Rocky Shore										0.2
Estuarine Gravel										0.1
Moderate Beach			0.03							0.1
Moderate Rocky Shore										0.1

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Southern South Island km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Sand									7.03	7,899.5
High Current Deep Sand	0.26						1.55	6.37	3.84	2,593.2
Upper Slope										2,194.9
Deep Gravel									0.21	1,259.8
Exposed Shallow Sand	0.56				0.008				4.48	1,221.3
High Current Deep Gravel	0.17							1.08	1.02	1,161.8
Moderate Shallow Gravel									1.81	1,031.4
Moderate Shallow Sand		4.52						0.22	3.51	700.6
Deep Mud										528.0
High Current Shallow Sand	5.02				0.09		2.69	4.88	2.28	459.2
High Current Shallow Gravel	0.72						0.31	3.71	6.08	454.0
Exposed Shallow Reef	1.61		0.13						4.39	214.9
Shallow Mud										172.9
Biogenic	3.58	0.06		0.11	0.36			5.46		157.0
High Current Shallow Reef	0.98		0.07				0.59	2.19	3.63	144.3
Exposed Shallow Gravel			0.00						2.40	141.7
Moderate Shallow Reef	0.93	3.04						0.19	5.19	123.1
Mudflat	9.52	1.19		1.55	4.47			48.41	4.07	99.2
Estuarine Sand	11.67				0.18			23.01	0.10	75.7
Deep Reef										69.2
Estuarine	0.05	1.79		11.96	3.62			0.02	0.47	44.5
Estuarine Reef	10.81						0.50	1.29		44.3
Estuarine Gravel	16.92						1.33	1.59		38.7
High Current Deep Reef								0.60	0.36	31.3
Estuarine Mud	17.18	5.05			0.14					26.3
Sheltered Shallow Sand		2.58					0.44			24.8
High Current Beach					0.16			23.42	0.13	24.3
Exposed Beach	0.10		0.04		0.005				0.18	12.8
Moderate Beach	0.19	0.30		0.00	0.002			0.27	0.29	11.4
Exposed Rocky Shore	0.12		0.14						0.19	9.4
Sheltered Shallow Reef		3.99					1.02			5.8
Estuarine Beach	0.48	0.05		0.01	0.03		0.11	0.21		3.4
Moderate Rocky Shore	0.24							0.02	0.29	3.3
High Current Rocky Shore							0.002	0.04	0.01	1.7
Sheltered Shallow Gravel							0.95			1.0
Sheltered Beach		0.15					0.02	0.28		0.5
Estuarine Rocky Shore	0.06									0.4
Sheltered Rocky Shore		0.03					0.03			0.1

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Subantarctic Islands km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Gravel							3,478.79			5,776.5
Upper Slope							938.22			1,676.7
Lower Slope							1,023.07			1,493.2
Mid Slope							675.67			1,274.0
Deep Mud							1.50			553.7
Deep Sand							497.67			497.7
Exposed Shallow Gravel							55.94			358.4
Moderate Shallow Gravel							17.90			106.5
Estuarine Gravel							4.77			78.9
Estuarine Reef							5.84			40.8
Moderate Shallow Reef							2.39			30.7
Exposed Shallow Reef							2.21			29.5
Deep Reef							6.50			9.6
Exposed Shallow Sand							4.08			4.1
Exposed Rocky Shore			0.87				0.01			2.9
Estuarine Rocky Shore										1.5
Moderate Rocky Shore			0.11				0.001			1.4
Moderate Beach										0.1
Estuarine										0.01
Estuarine Beach										0.01

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Three Kings km ²	Maratani	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Upper Slope										925.6
High Current Deep Sand										796.7
Mid Slope										470.4
High Current Deep Reef										14.0
High Current Deep Gravel										8.8
Deep Sand										6.3
High Current Shallow Reef										4.8
High Current Rocky Shore			0.01							0.01

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

West Coast South Island km ²	Maratai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Mud										6,027.3
Deep Sand										2,042.7
Exposed Shallow Sand					0.21					1,651.9
Mid Slope										858.8
Lower Slope										773.4
Upper Slope										584.8
Shallow Mud										492.5
Moderate Shallow Sand										419.7
Exposed Shallow Reef										123.7
Deep Reef										74.5
Estuarine					1.12					40.8
Deep Gravel										21.2
Exposed Beach					0.005					12.3
Moderate Shallow Reef					0.001					11.4
Exposed Rocky Shore										5.7
Estuarine Beach					0.18					5.5
Biogenic					0.10					4.4
Moderate Beach										3.7
Mudflat					0.09					1.2
Estuarine Sand					0.008					1.0
Exposed Shallow Gravel										1.0
Moderate Rocky Shore										0.7

APPENDIX 4.2 AREA (KM²) OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH BIOREGION.

Western North Island km ²	Maratani	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Total habitat in bioregion
Deep Sand		9.04						65.04	280.44	9,026.1
Exposed Shallow Sand	3.53	14.16					6.43	809.69	584.80	1,858.5
Deep Mud								0.00	57.87	1,180.0
Moderate Shallow Sand	0.44	28.58						311.53	162.52	639.6
Estuarine Sand	6.18	20.02		0.23	0.008		484.82	28.32		530.4
Mudflat	16.87	55.91		2.07	0.86		423.35	81.67		508.8
High Current Shallow Sand	1.61	3.98					135.16	63.14		203.1
Upper Slope										185.7
Biogenic	4.98	12.37		4.80	3.16		144.90	13.46		165.2
Exposed Shallow Reef	2.57	2.85						33.33	28.79	62.9
Moderate Shallow Reef		1.01						26.91	15.41	51.0
Exposed Beach	0.67	0.28					0.82	33.96	0.59	36.4
Estuarine	0.000	0.02					0.02	0.04	0.000	26.2
Exposed Shallow Gravel									22.75	22.7
Deep Gravel									18.79	18.8
Estuarine Beach	0.12	0.18					14.70	0.72	0.00	16.0
Shallow Mud								2.53	7.32	10.9
Deep Reef		1.04						0.00	0.67	9.8
Sheltered Shallow Sand		0.01						7.87		7.9
Exposed Rocky Shore								4.68	1.49	6.7
High Current Deep Sand							4.53	0.78		5.3
Moderate Beach	0.23	1.19						4.01	0.64	4.9
Moderate Rocky Shore		0.07						1.30	1.55	3.3
High Current Shallow Reef							1.49	0.53		2.0
Estuarine Mud								1.95		1.9
Estuarine Rocky Shore							1.37	0.04		1.4
Sheltered Shallow Reef								0.95	0.35	1.3
Estuarine Reef							0.79	0.06		0.8
Sheltered Beach								0.54	0.03	0.6
High Current Rocky Shore							0.42	0.12		0.5
High Current Beach							0.33	0.10		0.4
Moderate Shallow Gravel									0.38	0.4
Sheltered Rocky Shore								0.08		0.1

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Chatham Islands %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Mud									39.06
Deep Gravel									31.21
Upper Slope									10.76
Moderate Shallow Gravel									5.12
Exposed Shallow Gravel									3.43
Exposed Shallow Reef									3.38
Deep Reef									2.10
Moderate Shallow Reef									1.55
Mid Slope									1.25
Estuarine Gravel									0.96
Mudflat									0.58
Shallow Mud									0.26
Estuarine									0.14
Exposed Rocky Shore									0.08
Moderate Rocky Shore									0.05
Estuarine Beach									0.03
Moderate Beach									0.03
Exposed Beach									0.02
Estuarine Rocky Shore									0.004

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

East Coast South Island %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Sand									18.80
Deep Mud									17.88
Moderate Shallow Sand									10.91
Shallow Mud									6.41
High Current Deep Sand									6.20
Exposed Shallow Sand	0.1						0.1	0.1	5.72
Moderate Shallow Gravel									4.67
Deep Gravel									4.53
Mid Slope									4.04
Sheltered Shallow Sand									3.97
Upper Slope									2.93
Lower Slope									2.90
High Current Deep Mud									2.74
Estuarine									1.67
Moderate Beach									1.60
Moderate Shallow Reef									1.07
High Current Shallow Sand									0.79
Estuarine Mud									0.65
Exposed Shallow Gravel									0.54
High Current Deep Gravel									0.38
Exposed Shallow Reef	3.6						3.6	3.6	0.28
Sheltered Shallow Reef									0.24
Estuarine Sand	2.7						2.7	2.7	0.20
Mudflat	0.03								0.19
Deep Reef									0.18
Sheltered Shallow Gravel									0.12
Biogenic									0.11
Estuarine Reef	0.5						0.5	0.5	0.11
High Current Shallow Reef									0.07
Moderate Rocky Shore							0.5	0.5	0.03
High Current Shallow Mud									0.02
Sheltered Beach									0.01
Exposed Beach									0.01
Estuarine Beach									0.01
High Current Deep Reef									0.01
Estuarine Rocky Shore									0.003
Exposed Rocky Shore									0.002
High Current Rocky Shore									0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Eastern North Island %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Exposed Rocky Shore	8.4						8.4	8.4	0.08
Exposed Beach	7.3						7.3	7.3	0.01
Exposed Shallow Reef	5.3						5.3	5.3	1.50
Exposed Shallow Sand	4.6						4.6	4.6	0.44
Moderate Rocky Shore	3.0						3.0	3.0	0.11
Moderate Beach	3.0						3.0	3.0	0.06
Deep Reef	2.6						2.6	2.6	0.95
Moderate Shallow Reef	0.8						0.8	0.8	2.45
Deep Sand	0.5						0.5	0.5	8.18
Moderate Shallow Sand	0.2						0.2	0.2	7.17
Shallow Mud	0.1						0.1	0.1	5.16
Estuarine Beach	0.1						0.1	0.1	0.02
Deep Mud	0.02						0.019	0.0	60.37
Estuarine	0.01						0.005	0.01	0.14
Upper Slope									5.05
Moderate Shallow Gravel									1.88
High Current Deep Mud									1.87
Mid Slope									1.50
Deep Gravel									1.48
Sheltered Shallow Sand									0.89
Lower Slope									0.26
High Current Shallow Reef									0.19
High Current Shallow Mud									0.07
Sheltered Shallow Reef									0.06
Sheltered Shallow Gravel									0.03
High Current Shallow Sand									0.02
High Current Deep Reef									0.02
Mudflat									0.01
Sheltered Shingle									0.01
High Current Deep Sand									0.01
Sheltered Beach									0.01
Sheltered Rocky Shore									0.01
Biogenic									0.01
High Current Rocky Shore									0.003
Estuarine Mud									0.002
Estuarine Sand									0.001
High Current Beach									0.001
Estuarine Reef									0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Fiordland %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Lower Slope									33.69
Deep Sand									16.84
Upper Slope									16.01
Mid Slope									13.60
Deep Mud				0.02		0.02		0.02	4.51
Estuarine Mud	12.0			60.1		60.1	12.0	72.1	4.48
Exposed Shallow Reef				0.02		0.02		0.02	2.73
High Current Deep Sand									1.96
Estuarine Reef	9.9			34.2		34.2	9.9	44.1	1.68
Estuarine Sand	19.6			27.2		27.2	19.6	46.8	1.48
Deep Reef				0.004		0.004		0.004	1.23
Exposed Shallow Sand									0.59
Shallow Mud				0.1		0.1		0.1	0.51
Deep Gravel									0.24
Exposed Rocky Shore				0.01		0.01		0.01	0.20
Estuarine	1.0			0.1		0.1	1.0	1.0	0.10
Estuarine Beach	14.8			66.0		66.0	14.8	80.8	0.04
Estuarine Rocky Shore	3.4			4.3		4.3	3.4	7.7	0.03
High Current Shallow Reef									0.03
High Current Deep Mud									0.01
Exposed Beach									0.01
High Current Deep Reef									0.01
Mudflat	73.0			26.7		26.7	73.0	99.6	0.01
High Current Shallow Sand									0.003
Sheltered Shallow Reef				33.9		33.9		33.9	0.001
Rocky Shore									0.001
High Current Rocky Shore									0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Kermadec Islands %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Mid Slope	100						100	100	41.82
Lower Slope	100						100	100	38.69
Upper Slope	100						100	100	13.24
Deep Volcanic	100						100	100	4.82
Exposed Shallow Volcanic	100						100	100	0.42
Moderate Shallow Volcanic	100						100	100	0.36
Deep Reef	100						100	100	0.32
Exposed Shallow Reef	100						100	100	0.23
Moderate Shallow Reef	100						100	100	0.08
Exposed Rocky Shore	100						100	100	0.01
Moderate Rocky Shore	100						100	100	0.01

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

North Cook Strait %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Mud			2.5			2.5	2.5	2.5	23.88
Deep Sand	0.1		0.7			0.7	0.7	0.7	14.82
High Current Deep Sand	1.1		0.8			0.8	1.9	1.9	10.79
Upper Slope			2.4			2.4	2.4	2.4	9.13
Mid Slope									7.99
Lower Slope									5.53
Moderate Shallow Sand	0.2		0.1			0.1	0.3	0.3	5.17
Sheltered Shallow Sand				0.02		0.02	0.02	0.02	3.78
High Current Shallow Sand	0.7		0.2			0.2	0.9	0.9	3.65
High Current Deep Gravel			11.7			11.7	11.7	11.7	3.16
Shallow Mud			0.0			0.04	0.04	0.04	3.03
Exposed Shallow Sand			0.02			0.02	0.02	0.02	1.23
Moderate Shallow Reef	1.8		0.7		0.2	0.9	2.4	2.6	1.21
High Current Deep Mud	2.4						2.4	2.4	1.11
Deep Gravel			16.2			16.2	16.2	16.2	1.09
Exposed Shallow Reef			5.1			5.1	5.1	5.1	0.88
High Current Shallow Gravel									0.80
High Current Shallow Reef	6.4		0.7		0.01	0.7	7.2	7.2	0.39
Estuarine									0.37
Exposed Shallow Gravel			28.4			28.4	28.4	28.4	0.37
Deep Reef	0.2						0.2	0.2	0.31
Moderate Shallow Gravel									0.29
Estuarine Mud									0.26
Sheltered Shallow Reef				7.1		7.1	7.1	7.1	0.15
Sheltered Shallow Gravel									0.09
Estuarine Sand									0.08
Estuarine Reef									0.08
High Current Deep Reef	4.1		6.1			6.1	10.2	10.2	0.07
Moderate Beach									0.06
Sheltered Beach				0.3		0.3	0.3	0.3	0.06
Moderate Rocky Shore	1.4		0.4		1.4	1.8	1.8	3.2	0.05
Exposed Rocky Shore			11.4			11.4	11.4	11.4	0.05
Exposed Beach			8.3			8.3	8.3	8.3	0.02
Sheltered Rocky Shore				25.7		25.7	25.7	25.7	0.01
Biogenic									0.01
High Current Rocky Shore	12.1						12.1	12.1	0.01
Estuarine Beach									0.01
Estuarine Rocky Shore									0.01
High Current Beach	7.1						7.1	7.1	0.01
Mudflat									0.002

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

North Eastern %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Sand	0.1	0.000	3.4	0.004		3.4	3.5	3.5	34.29
Deep Mud	0.0		3.9	0.004		3.9	3.9	3.9	23.22
Upper Slope	0.2						0.2	0.2	9.20
Mid Slope									5.90
Moderate Shallow Sand	0.4	0.1	0.1	0.1		0.3	0.7	0.7	4.98
High Current Deep Sand									4.90
Shallow Mud	0.4		3.9	0.3		4.2	4.3	4.6	3.58
Sheltered Shallow Sand	0.8		0.1		0.1	0.2	0.9	0.9	1.83
Lower Slope									1.74
Moderate Shallow Reef	1.9	0.1	0.4	1.6		2.1	2.4	4.0	1.30
Biogenic	0.7	0.028	2.4		0.1	2.6	3.2	3.3	1.28
High Current Shallow Mud			0.5			0.5	0.5	0.5	0.85
Estuarine Sand	0.9						0.9	0.9	0.84
Deep Reef	5.5		1.5			1.5	7.0	7.0	0.72
High Current Deep Mud									0.71
Mudflat	2.0					1.4	3.4	3.4	0.66
Exposed Shallow Sand									0.61
High Current Shallow Sand	0.1		0.5		0.2	0.7	0.6	0.7	0.60
Deep Gravel			3.7			3.7	3.7	3.7	0.58
High Current Deep Gravel									0.40
Estuarine Beach	0.02			0.1		0.1	0.02	0.1	0.31
Sheltered Shallow Reef	0.9		0.2		0.2	0.4	1.1	1.3	0.29
High Current Shallow Gravel									0.25
High Current Beach					0.1	0.1		0.1	0.11
High Current Shallow Reef			0.2		0.2	0.4	0.2	0.4	0.11
Estuarine Reef	0.2			6.7		6.7	0.2	6.9	0.09
Moderate Beach	0.1	0.4	0.4	0.5		1.2	0.9	1.4	0.09
Estuarine Mud				4.4		4.4	0.02	4.4	0.09
Sheltered Shallow Gravel									0.08
Moderate Shallow Gravel			9.4			9.4	9.4	9.4	0.07
Moderate Rocky Shore	1.4	0.5	0.1	1.2		1.8	2.0	3.2	0.07
Estuarine									0.05
Sheltered Rocky Shore	1.0		0.5		0.0	0.5	1.5	1.5	0.04
Exposed Shallow Gravel									0.04
High Current Deep Reef									0.03
Sheltered Beach	0.3		0.5		0.6	1.2	0.9	1.5	0.02
Exposed Shallow Reef									0.02
Exposed Beach									0.02
Estuarine Rocky Shore				2.3		2.3		2.3	0.01
High Current Rocky Shore					1.3	1.3		1.3	0.01
Exposed Rocky Shore									0.001
Estuarine Gravel									0.001

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Habitat as % of bioregion	Total MPA	Total no take	Total Type II MPA	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Cable or Pipeline Zone	No-take Marine Park	Type I Marine Reserve	Snares Islands %
Deep Gravel	66.83								
Upper Slope	29.22								
Mid Slope	3.67								
Exposed Shallow Reef	0.11								
Exposed Shallow Gravel	0.07								
Moderate Shallow Reef	0.03								
Deep Reef	0.03								
Moderate Shallow Gravel	0.02								
Exposed Rocky Shore	0.02								
Moderate Rocky Shore	0.000								

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

South Cook Strait %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
High Current Deep Sand	0.02		1.4			1.4	1.4	1.4	26.21
Deep Mud	0.05						0.05	0.05	17.71
Deep Sand			0.1	0.00		0.1	0.1	0.1	17.09
Shallow Mud	1.8						1.8	1.8	9.62
High Current Deep Gravel			15.6			15.6	15.6	15.6	4.45
Deep Gravel									3.82
Estuarine Mud	0.2						0.2	0.2	2.73
High Current Deep Mud	0.1						0.1	0.1	2.52
Sheltered Shallow Sand	0.01		0.9	0.04		1.0	0.9	1.0	2.50
Estuarine Sand	1.3						1.3	1.3	2.35
High Current Shallow Sand	0.1		0.1	0.005		0.1	0.2	0.2	2.16
Upper Slope			0.04			0.04	0.04	0.04	1.32
Mudflat	2.7						2.7	2.7	1.30
Biogenic	0.1			0.000		0.000	0.1	0.1	0.89
High Current Shallow Mud									0.87
Estuarine Reef	1.5						1.5	1.5	0.82
Exposed Shallow Sand									0.78
Moderate Shallow Sand									0.77
Sheltered Shallow Reef	6.8		1.0	1.7		2.7	7.7	9.4	0.50
High Current Shallow Reef	0.3		0.2	0.2		0.4	0.5	0.7	0.31
High Current Deep Reef	0.02		0.2			0.2	0.2	0.2	0.24
Exposed Shallow Reef									0.20
Deep Reef			0.2	0.0		0.2	0.2	0.2	0.15
Estuarine									0.13
Estuarine Beach	0.2						0.2	0.2	0.12
Moderate Shallow Reef									0.11
High Current Shallow Gravel									0.11
Sheltered Beach	0.6						0.6	0.6	0.09
Exposed Shallow Gravel									0.04
Sheltered Rocky Shore	9.0		2.9	4.8		7.7	11.9	16.7	0.03
Exposed Beach									0.02
Exposed Rocky Shore									0.02
High Current Beach									0.01
Estuarine Rocky Shore									0.01
Sheltered Shallow Gravel									0.01
High Current Rocky Shore				8.8		8.8		8.8	0.002
Estuarine Gravel									0.001
Moderate Beach									0.00
Moderate Rocky Shore									0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Southern South Island %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Sand									37.64
High Current Deep Sand	0.003			0.01		0.01	0.003	0.01	12.36
Upper Slope									10.46
Deep Gravel									6.00
Exposed Shallow Sand									5.82
High Current Deep Gravel	0.000			0.02		0.02	0.000	0.02	5.54
Moderate Shallow Gravel									4.91
Moderate Shallow Sand									3.34
Deep Mud									2.52
High Current Shallow Sand	0.2			1.1		1.1	0.2	1.4	2.19
High Current Shallow Gravel	0.04			0.2		0.2	0.04	0.2	2.16
Exposed Shallow Reef									1.02
Shallow Mud									0.82
Biogenic				2.6		2.6		2.6	0.75
High Current Shallow Reef	0.7			0.7		0.7	0.7	1.4	0.69
Exposed Shallow Gravel									0.68
Moderate Shallow Reef									0.59
Mudflat				6.9		6.9		6.9	0.47
Estuarine Sand	5.1			16.0		16.0	5.1	21.1	0.36
Deep Reef									0.33
Estuarine				0.000		0.000		0.000	0.21
Estuarine Reef	3.5			33.8		33.8	3.5	37.4	0.21
Estuarine Gravel	1.8			50.5		50.5	1.8	52.2	0.18
High Current Deep Reef									0.15
Estuarine Mud	9.3			88.0		88.0	9.3	97.3	0.13
Sheltered Shallow Sand									0.12
High Current Beach									0.12
Exposed Beach									0.06
Moderate Beach									0.05
Exposed Rocky Shore									0.04
Sheltered Shallow Reef									0.03
Estuarine Beach	0.7			15.6		15.6	0.7	16.2	0.02
Moderate Rocky Shore									0.02
High Current Rocky Shore									0.01
Sheltered Shallow Gravel									0.00
Sheltered Beach									0.002
Estuarine Rocky Shore	2.8			17.9		17.9	2.8	20.8	0.002
Sheltered Rocky Shore									0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Subantarctic Islands %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Gravel	39.8						40	39.8	48.39
Upper Slope	44.0						44	44.0	14.05
Lower Slope	27.6						27.6	27.6	12.51
Mid Slope	38.9						38.9	38.9	10.67
Deep Mud	99.7						99.7	99.7	4.64
Deep Sand									4.17
Exposed Shallow Gravel	84.1						84.4	84.1	3.00
Moderate Shallow Gravel	83.0						83.2	83.0	0.89
Estuarine Gravel	93.9						94.0	93.9	0.66
Estuarine Reef	85.0						85.7	85.0	0.34
Moderate Shallow Reef	92.0						92.2	92.0	0.26
Exposed Shallow Reef	92.2						92.5	92.2	0.25
Deep Reef	32.0						32.0	32.0	0.08
Exposed Shallow Sand									0.03
Exposed Rocky Shore	69.5						69.5	69.5	0.02
Estuarine Rocky Shore	100						100	100	0.01
Moderate Rocky Shore	91.6						92	92	0.01
Moderate Beach	100						100	100	0.001
Estuarine	100						100	100	0.000
Estuarine Beach	100						100	100	0.000

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Three Kings %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Upper Slope									41.57
High Current Deep Sand									35.78
Mid Slope									21.13
High Current Deep Reef									0.63
High Current Deep Gravel									0.40
Deep Sand									0.28
High Current Shallow Reef									0.21
High Current Rocky Shore									0.001

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

West Coast South Island %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Mud								45.81
Deep Sand								15.52
Exposed Shallow Sand								12.55
Mid Slope								6.53
Lower Slope								5.88
Upper Slope								4.44
Shallow Mud								3.74
Moderate Shallow Sand								3.19
Exposed Shallow Reef								0.94
Deep Reef								0.57
Estuarine								0.31
Deep Gravel								0.16
Exposed Beach								0.09
Moderate Shallow Reef								0.09
Exposed Rocky Shore								0.04
Estuarine Beach								0.04
Biogenic								0.03
Moderate Beach								0.03
Mudflat								0.01
Estuarine Sand								0.01
Exposed Shallow Gravel								0.01
Moderate Rocky Shore								0.01

APPENDIX 5.1 PERCENTAGE AREA OF HABITATS IN MARINE PROTECTED AREAS
IN EACH COASTAL MARINE BIOREGION.

Western North Island %	Type I Marine Reserve	No-take Marine Park	Cable or Pipeline Zone	No trawl, danish seine, dredge or setnet	No trawl, danish seine, dredge	Total Type II MPA	Total no take	Total MPA	Habitat as % of bioregion
Deep Sand	0.004		2.9	0.001		2.9	2.9	2.9	61.87
Exposed Shallow Sand	0.001		2.9	0.02		2.9	2.9	2.9	12.74
Deep Mud									8.09
Moderate Shallow Sand	3.9		1.1	0.2		1.3	4.9	5.1	4.38
Estuarine Sand									3.64
Mudflat									3.49
High Current Shallow Sand									1.39
Upper Slope									1.27
Biogenic									1.13
Exposed Shallow Reef			0.002			0.002	0.002	0.002	0.43
Moderate Shallow Reef	12.6			2.8		2.8	12.6	15.4	0.35
Exposed Beach			2.7			2.7	2.7	2.7	0.25
Estuarine									0.18
Exposed Shallow Gravel									0.16
Deep Gravel									0.13
Estuarine Beach									0.11
Shallow Mud	1.4			8.5		8.5	1.4	9.8	0.07
Deep Reef									0.07
Sheltered Shallow Sand									0.05
Exposed Rocky Shore			7.2			7.2	7.2	7.2	0.05
High Current Deep Sand									0.04
Moderate Beach	2.4		1.9	0.6		2.5	4.3	4.9	0.03
Moderate Rocky Shore	12.9						12.9	12.9	0.02
High Current Shallow Reef									0.01
Estuarine Mud									0.01
Estuarine Rocky Shore									0.01
Sheltered Shallow Reef									0.01
Estuarine Reef									0.01
Sheltered Beach									0.004
High Current Rocky Shore									0.004
High Current Beach									0.003
Moderate Shallow Gravel									0.003
Sheltered Rocky Shore									0.001

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Chatham Islands %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Mud									0.3	39.06
Deep Gravel									14.0	31.21
Upper Slope										10.76
Moderate Shallow Gravel							0.1		76.9	5.12
Exposed Shallow Gravel							0.0		73.1	3.43
Exposed Shallow Reef							0.1		74.3	3.38
Deep Reef									11.6	2.10
Moderate Shallow Reef							0.3		81.4	1.55
Mid Slope										1.25
Estuarine Gravel							0.1		5.2	0.96
Mudflat										0.58
Shallow Mud									2.4	0.26
Estuarine									2.4	0.14
Exposed Rocky Shore			1.3				1.3		93.6	0.08
Moderate Rocky Shore			1.2				4.1		94.7	0.05
Estuarine Beach							0.6		1.8	0.03
Moderate Beach							2.2		97.8	0.03
Exposed Beach							0.6		99.4	0.02
Estuarine Rocky Shore							3.2		96.4	0.004

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

East Coast South Island %	Mataiatai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Sand		0.01							0.04	18.80
Deep Mud									0.7	17.88
Moderate Shallow Sand					0.1	0.002		0.0		10.91
Shallow Mud	0.01								0.01	6.41
High Current Deep Sand										6.20
Exposed Shallow Sand		0.2						0.0		5.72
Moderate Shallow Gravel										4.67
Deep Gravel										4.53
Mid Slope										4.04
Sheltered Shallow Sand										3.97
Upper Slope										2.93
Lower Slope										2.90
High Current Deep Mud										2.74
Estuarine					0.1					1.67
Moderate Beach					0.1					1.60
Moderate Shallow Reef						0.3				1.07
High Current Shallow Sand		2.0						2.7		0.79
Estuarine Mud	9.9	30.9						33.2	10.6	0.65
Exposed Shallow Gravel										0.54
High Current Deep Gravel										0.38
Exposed Shallow Reef		3.9						0.4		0.28
Sheltered Shallow Reef	0.1								0.1	0.24
Estuarine Sand		34.5			0.8			52.8		0.20
Mudflat	0.6	5.9			3.1			6.3	0.7	0.19
Deep Reef		0.2								0.18
Sheltered Shallow Gravel										0.12
Biogenic					0.1					0.11
Estuarine Reef	3.6	24.6						33.9	3.8	0.11
High Current Shallow Reef		3.4						4.1		0.07
Moderate Rocky Shore					1.1	0.5				0.03
High Current Shallow Mud										0.02
Sheltered Beach										0.01
Exposed Beach										0.01
Estuarine Beach	0.8	1.2			5.8			12.1	0.9	0.01
High Current Deep Reef										0.01
Estuarine Rocky Shore								3.1		0.003
Exposed Rocky Shore										0.002
High Current Rocky Shore										0.000

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Eastern North Island %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Mud							0.2	0.1	8.8	60.37
Deep Sand							7.9		28.8	8.18
Moderate Shallow Sand	0.3	2.0					7.2	12.5	61.3	7.17
Shallow Mud	0.5	1.5			0.1		11.8	2.0	55.9	5.16
Upper Slope										5.05
Moderate Shallow Reef	2.9	10.6					10.2	1.0	87.9	2.45
Moderate Shallow Gravel								64.2	24.6	1.88
High Current Deep Mud							0.003		10.4	1.87
Mid Slope										1.50
Exposed Shallow Reef							27.8		62.8	1.50
Deep Gravel								24.6		1.48
Deep Reef							10.5		19.2	0.95
Sheltered Shallow Sand	0.3						15.1	10.4	74.4	0.89
Exposed Shallow Sand							29.0		66.3	0.44
Lower Slope										0.26
High Current Shallow Reef							0.8		99.2	0.19
Estuarine					12.4		26.7	3.5	1.4	0.14
Moderate Rocky Shore	1.2	4.1					26.7	0.3	69.9	0.11
Exposed Rocky Shore							39.3		52.3	0.08
High Current Shallow Mud							3.0		97.0	0.07
Moderate Beach	2.1	10.1			0.6		12.3	10.9	73.7	0.06
Sheltered Shallow Reef	7.7						51.7	7.2	40.7	0.06
Sheltered Shallow Gravel									100.0	0.03
High Current Shallow Sand							65.4		34.6	0.02
High Current Deep Reef									100.0	0.02
Estuarine Beach					3.6				0.0	0.02
Exposed Beach							4.8		87.8	0.01
Mudflat					7.1			5.8	18.8	0.01
Sheltered Shingle								53.6	46.3	0.01
High Current Deep Sand							16.2		83.8	0.01
Sheltered Beach	8.9						26.9		72.9	0.01
Sheltered Rocky Shore							100			0.01
Biogenic					21.9		56.4	5.2	0.1	0.01
High Current Rocky Shore									100	0.003
Estuarine Mud									100	0.002
Estuarine Sand								100		0.001
High Current Beach									100	0.001
Estuarine Reef									100	0.000

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Fiordland %	Mataiatai Taiapure	Nature Reserve Scientific Reserve Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Lower Slope							33.69
Deep Sand					0.3		16.84
Upper Slope							16.01
Mid Slope							13.60
Deep Mud					0.2		4.51
Estuarine Mud					21.7		4.48
Exposed Shallow Reef					2.9		2.73
High Current Deep Sand					1.4		1.96
Estuarine Reef					46.3		1.68
Estuarine Sand					53.2		1.48
Deep Reef					2.9		1.23
Exposed Shallow Sand					0.9		0.59
Shallow Mud					0.002		0.51
Deep Gravel							0.24
Exposed Rocky Shore					4.4		0.20
Estuarine					0.000		0.10
Estuarine Beach					9.3		0.04
Estuarine Rocky Shore					76.8		0.03
High Current Shallow Reef					43.0		0.03
High Current Deep Mud							0.01
Exposed Beach							0.01
High Current Deep Reef					28.0		0.01
Mudflat							0.01
High Current Shallow Sand					12.2		0.003
Sheltered Shallow Reef							0.001
Rocky Shore							0.001
High Current Rocky Shore					100		0.000

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Kermadec Islands %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Mid Slope										41.82
Lower Slope										38.69
Upper Slope										13.24
Deep Volcanic										4.82
Exposed Shallow Volcanic										0.42
Moderate Shallow Volcanic										0.36
Deep Reef										0.32
Exposed Shallow Reef										0.23
Moderate Shallow Reef										0.08
Exposed Rocky Shore										0.01
Moderate Rocky Shore										0.01

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

North Cook Strait %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Mud									17.3	23.88
Deep Sand									11.3	14.82
High Current Deep Sand									14.2	10.79
Upper Slope									3.8	9.13
Mid Slope									0.8	7.99
Lower Slope										5.53
Moderate Shallow Sand							0.03		60.0	5.17
Sheltered Shallow Sand				0.001			0.1	0.5	84.6	3.78
High Current Shallow Sand			0.00	0.02					32.1	3.65
High Current Deep Gravel									12.4	3.16
Shallow Mud		0.2							98.8	3.03
Exposed Shallow Sand									33.5	1.23
Moderate Shallow Reef		1.3					0.2	0.000	93.8	1.21
High Current Deep Mud									56.8	1.11
Deep Gravel									52.8	1.09
Exposed Shallow Reef									93.8	0.88
High Current Shallow Gravel									4.4	0.80
High Current Shallow Reef			0.1	0.01					50.3	0.39
Estuarine				0.001			69.5		0.0	0.37
Exposed Shallow Gravel									71.6	0.37
Deep Reef									43.0	0.31
Moderate Shallow Gravel									70.0	0.29
Estuarine Mud							99.6		0.4	0.26
Sheltered Shallow Reef							0.2	4.0	60.6	0.15
Sheltered Shallow Gravel									32.9	0.09
Estuarine Sand					7.2		82.4		17.6	0.08
Estuarine Reef				0.003			88.3		11.7	0.08
High Current Deep Reef									28.6	0.07
Moderate Beach		0.2					0.04	0.000	99.9	0.06
Sheltered Beach				0.3	0.005		0.5	0.4	98.4	0.06
Moderate Rocky Shore		0.2					0.5		96.3	0.05
Exposed Rocky Shore									88.5	0.05
Exposed Beach									91.7	0.02
Sheltered Rocky Shore							2.2	17.0	55.0	0.01
Biogenic					39.6		100			0.01
High Current Rocky Shore			25.2	26.2					29.2	0.01
Estuarine Beach							13.8		28.7	0.01
Estuarine Rocky Shore				7.0			86.7		6.2	0.01
High Current Beach				23.6	0.1				62.7	0.01
Mudflat					18.3		100			0.002

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

North Eastern %	Maitai	Taiapu	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Sand	0.04		0.000				0.5	5.5	0.1	34.29
Deep Mud	0.005						0.8	6.1	2.3	23.22
Upper Slope										9.20
Mid Slope										5.90
Moderate Shallow Sand	0.2	1.5	0.002				11.4	39.5	2.1	4.98
High Current Deep Sand							10.8	5.6		4.90
Shallow Mud	0.9	0.7	0.0				51.7	15.8	5.1	3.58
Sheltered Shallow Sand					0.001		50.5	42.4	0.8	1.83
Lower Slope										1.74
Moderate Shallow Reef	0.9	1.2	0.2				10.0	19.9	7.3	1.30
Biogenic	1.2		0.8	0.0	0.1		60.9	16.0	1.5	1.28
High Current Shallow Mud	0.0						92.3	4.3	2.5	0.85
Estuarine Sand		3.6			0.1		88.4	6.3	2.2	0.84
Deep Reef			0.00				0.3	7.5	4.0	0.72
High Current Deep Mud							0.1	2.4	8.3	0.71
Mudflat		1.0	6.0	1.4	0.02		77.3	11.1	0.6	0.66
Exposed Shallow Sand								48.9		0.61
High Current Shallow Sand	0.5						23.9	32.0		0.60
Deep Gravel							0.4	3.6		0.58
High Current Deep Gravel							0.1	0.4		0.40
Estuarine Beach					1.6		19.9	75.5	1.3	0.31
Sheltered Shallow Reef					0.0		58.6	15.3	0.6	0.29
High Current Shallow Gravel			0.001				59.0	0.3		0.25
High Current Beach	3.9						1.4	98.2		0.11
High Current Shallow Reef	0.8		0.03				30.2	1.6	17.1	0.11
Estuarine Reef		0.2			0.1		52.6	0.4	8.1	0.09
Moderate Beach	1.0	4.2					16.7	41.5	4.2	0.09
Estuarine Mud		5.5	0.000	0.02			42.4	25.5	11.0	0.09
Sheltered Shallow Gravel							100.0			0.08
Moderate Shallow Gravel							21.4	2.3		0.07
Moderate Rocky Shore	0.6	0.6	3.1				19.3	20.6	16.9	0.07
Estuarine		0.05			0.2		0.6	0.04	0.000	0.05
Sheltered Rocky Shore							79.9	9.0	1.2	0.04
Exposed Shallow Gravel										0.04
High Current Deep Reef								0.9	2.0	0.03
Sheltered Beach					0.01		46.8	22.5	0.3	0.02
Exposed Shallow Reef								9.3	35.2	0.02
Exposed Beach								91.7	1.5	0.02
Estuarine Rocky Shore							63.2	1.3	6.1	0.01
High Current Rocky Shore							88.6			0.01
Exposed Rocky Shore								11.4	16.4	0.001
Estuarine Gravel							77.8			0.001

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Habitat as % of bioregion	One of trawl, danish seine or commercial dredge prohibited	Two of trawl, danish seine or commercial dredge prohibited	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Temporary closure	Other DOC reserve	Scientific Reserve	Nature Reserve	Taiapure	Mataitai	Snares Islands %
66.83										Deep Gravel
29.22										Upper Slope
3.67										Mid Slope
0.11										Exposed Shallow Reef
0.07										Exposed Shallow Gravel
0.03										Moderate Shallow Reef
0.03										Deep Reef
0.02										Moderate Shallow Gravel
0.02							100			Exposed Rocky Shore
0.000							100			Moderate Rocky Shore

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

South Cook Strait %	Maitaitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
High Current Deep Sand			0.000					0.1	0.8	26.21
Deep Mud							3.3			17.71
Deep Sand										17.09
Shallow Mud		1.3	0.03				0.3	0.5	1.4	9.62
High Current Deep Gravel									0.9	4.45
Deep Gravel										3.82
Estuarine Mud		0.000					16.7	19.0	19.8	2.73
High Current Deep Mud								6.2	0.1	2.52
Sheltered Shallow Sand		2.2	0.8	0.01	0.01		0.6	0.1		2.50
Estuarine Sand				0.000	5.3		16.3	15.3	22.9	2.35
High Current Shallow Sand			1.7	0.002	0.2		0.3	4.0	14.1	2.16
Upper Slope										1.32
Mudflat			27.4		7.1		3.1	25.1		1.30
Biogenic			35.1		5.5		49.2	6.8		0.89
High Current Shallow Mud			0.3				5.3	17.2		0.87
Estuarine Reef				0.02			17.3	13.5	23.9	0.82
Exposed Shallow Sand					0.4			0.2	0.2	0.78
Moderate Shallow Sand			2.1							0.77
Sheltered Shallow Reef		1.4					13.4	0.4	7.1	0.50
High Current Shallow Reef			0.4	0.1			2.4	16.7	10.0	0.31
High Current Deep Reef			0.2					1.1	3.6	0.24
Exposed Shallow Reef					0.4			0.1	0.4	0.20
Deep Reef							2.9			0.15
Estuarine					0.3			0.02		0.13
Estuarine Beach				0.1	0.9		4.1	9.6	7.9	0.12
Moderate Shallow Reef										0.11
High Current Shallow Gravel									7.3	0.11
Sheltered Beach					0.7		0.9	2.4	1.1	0.09
Exposed Shallow Gravel										0.04
Sheltered Rocky Shore		16.5					5.9	0.8	3.5	0.03
Exposed Beach					7.9			4.9	3.4	0.02
Exposed Rocky Shore										0.02
High Current Beach			57.9		19.7			22.5		0.01
Estuarine Rocky Shore								72.1	6.2	0.01
Sheltered Shallow Gravel										0.01
High Current Rocky Shore										0.002
Estuarine Gravel										0.001
Moderate Beach			42.9							0.00
Moderate Rocky Shore										0.000

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Southern South Island %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion	
Deep Sand									0.1	37.64	
High Current Deep Sand	0.01						0.1	0.2	0.1	12.36	
Upper Slope										10.46	
Deep Gravel									0.0	6.00	
Exposed Shallow Sand	0.05				0.001				0.4	5.82	
High Current Deep Gravel	0.01							0.1	0.1	5.54	
Moderate Shallow Gravel									0.2	4.91	
Moderate Shallow Sand		0.6						0.03	0.5	3.34	
Deep Mud										2.52	
High Current Shallow Sand	1.1				0.02		0.6	1.1	0.5	2.19	
High Current Shallow Gravel	0.2						0.1	0.8	1.3	2.16	
Exposed Shallow Reef	0.7		0.1						2.0	1.02	
Shallow Mud										0.82	
Biogenic	2.3	0.0		0.1	0.2			3.5		0.75	
High Current Shallow Reef	0.7		0.05				0.4	1.5	2.5	0.69	
Exposed Shallow Gravel			0.002							1.7	0.68
Moderate Shallow Reef	0.8	2.5						0.2	4.2	0.59	
Mudflat	9.6	1.2		1.6	4.5			48.8	4.1	0.47	
Estuarine Sand	15.4				0.2			30.4	0.1	0.36	
Deep Reef										0.33	
Estuarine	0.1	4.0		26.8	8.1			0.041	1.0	0.21	
Estuarine Reef	24.4						1.1	2.9		0.21	
Estuarine Gravel	43.8						3.4	4.1		0.18	
High Current Deep Reef								1.9	1.1	0.15	
Estuarine Mud	65.2	19.2			0.5					0.13	
Sheltered Shallow Sand		10.4					1.8			0.12	
High Current Beach					0.7			96.4	0.5	0.12	
Exposed Beach	0.8		0.3		0.04				1.4	0.06	
Moderate Beach	1.6	2.6		0.000	0.02			2.4	2.6	0.05	
Exposed Rocky Shore	1.3		1.5						2.0	0.04	
Sheltered Shallow Reef		68.5					17.5			0.03	
Estuarine Beach	14.2	1.6		0.4	0.8		3.1	6.3		0.02	
Moderate Rocky Shore	7.2							0.6	8.8	0.02	
High Current Rocky Shore							0.1	2	0.6	0.01	
Sheltered Shallow Gravel							100.0			0.00	
Sheltered Beach		30.3					3.9	57.0		0.002	
Estuarine Rocky Shore	16.6									0.002	
Sheltered Rocky Shore		52.4					46			0.000	

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Subantarctic Islands %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve		No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Gravel								60		48.39
Upper Slope								56.0		14.05
Lower Slope								68.5		12.51
Mid Slope								53.0		10.67
Deep Mud								0.3		4.64
Deep Sand								100		4.17
Exposed Shallow Gravel								16		3.00
Moderate Shallow Gravel								16.8		0.89
Estuarine Gravel								6.0		0.66
Estuarine Reef								14.3		0.34
Moderate Shallow Reef								7.8		0.26
Exposed Shallow Reef								7.5		0.25
Deep Reef								68.0		0.08
Exposed Shallow Sand								100		0.03
Exposed Rocky Shore			30.0					0.5		0.02
Estuarine Rocky Shore										0.01
Moderate Rocky Shore			8.3					0.1		0.01
Moderate Beach										0.001
Estuarine										0.000
Estuarine Beach										0.000

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Three Kings %	Matawai Taiapure	Nature Reserve Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Upper Slope								41.57
High Current Deep Sand								35.78
Mid Slope								21.13
High Current Deep Reef								0.63
High Current Deep Gravel								0.40
Deep Sand								0.28
High Current Shallow Reef								0.21
High Current Rocky Shore		100						0.001

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

West Coast South Island %	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve		No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Mud										45.81
Deep Sand										15.52
Exposed Shallow Sand					0.01					12.55
Mid Slope										6.53
Lower Slope										5.88
Upper Slope										4.44
Shallow Mud										3.74
Moderate Shallow Sand										3.19
Exposed Shallow Reef										0.94
Deep Reef										0.57
Estuarine					2.7					0.31
Deep Gravel										0.16
Exposed Beach					0.04					0.09
Moderate Shallow Reef					0.01					0.09
Exposed Rocky Shore										0.04
Estuarine Beach					3.2					0.04
Biogenic					2.3					0.03
Moderate Beach										0.03
Mudflat					7.5					0.01
Estuarine Sand					0.8					0.01
Exposed Shallow Gravel										0.01
Moderate Rocky Shore										0.01

APPENDIX 5.2 PERCENTAGE AREA OF HABITATS IN MANAGEMENT TOOLS THAT DO NOT MEET THE MPA PROTECTION STANDARD IN EACH COASTAL MARINE BIOREGION.

Western North Island %	Maitai	Taiapu	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	Habitat as % of bioregion
Deep Sand		0.1						0.7	3.1	61.87
Exposed Shallow Sand	0.2	0.8					0.3	43.6	31.5	12.74
Deep Mud								0.0	5	8.09
Moderate Shallow Sand	0.1	4.5						48.7	25.4	4.38
Estuarine Sand	1.2	3.8		0.04	0.001		91.4	5.3		3.64
Mudflat	3.3	11.0		0.4	0.2		83.2	16.1		3.49
High Current Shallow Sand	0.8	2.0					66.5	31.1		1.39
Upper Slope										1.27
Biogenic	3.0	7.5		2.9	1.9		87.7	8.2		1.13
Exposed Shallow Reef	4.1	4.5						53.0	45.8	0.43
Moderate Shallow Reef		2.0						52.7	30.2	0.35
Exposed Beach	1.9	0.8					2.3	93.4	1.6	0.25
Estuarine	0.0	0.1					0.1	0.2	0.0	0.18
Exposed Shallow Gravel									100	0.16
Deep Gravel									100	0.13
Estuarine Beach	0.8	1.1					91.9	5	0.0	0.11
Shallow Mud								23.1	67.0	0.07
Deep Reef		10.6						0.007	6.8	0.07
Sheltered Shallow Sand		0.1						100		0.05
Exposed Rocky Shore								70.3	22.4	0.05
High Current Deep Sand							85.4	14.6		0.04
Moderate Beach	4.7	24.3						82.0	13.1	0.03
Moderate Rocky Shore		2.1						39.7	47.4	0.02
High Current Shallow Reef							73.7	26.3		0.01
Estuarine Mud								100		0.01
Estuarine Rocky Shore							97.0	3.0		0.01
Sheltered Shallow Reef								73.2	26.7	0.01
Estuarine Reef							93.5	6.5		0.01
Sheltered Beach								95.5	4.4	0.004
High Current Rocky Shore							78.3	21.7		0.004
High Current Beach							76.9	23.0		0.003
Moderate Shallow Gravel									100	0.003
Sheltered Rocky Shore								99.8		0.001

Appendix 6.1 Number of habitats that have greater than 0 or 1 % of their area in MPAs for each coastal marine bioregion.

Number of different habitats with greater than 0 or 1% of their bioregional area in MPAs	Type I Marine Reserve	No trawl, danish seine, dredge or setnet					Total Type II MPA	Total no take	Total MPA
		No-take Marine Park	Cable or pipeline zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge	No trawl, danish seine, dredge			
Chatham Islands >0%	0	0	0	0	0	0	0	0	
Chatham Islands >1%	0	0	0	0	0	0	0	0	
Chatham Islands Total	18	18	18	18	18	18	18	18	
East Coast South Island >0%	5	0	0	0	0	0	5	5	
East Coast South Island >1%	2	0	0	0	0	0	2	2	
East Coast South Island Total	37	37	37	37	37	37	37	37	
Eastern North Island >0%	13	0	0	0	0	0	13	13	
Eastern North Island >1%	7	0	0	0	0	0	7	7	
Eastern North Island Total	36	36	36	36	36	36	36	36	
Fiordland >0%	6	0	0	12	0	13	7	13	
Fiordland >1%	6	0	0	7	0	7	6	8	
Fiordland Total	26	26	26	26	26	26	26	26	
Kermadec Islands >0%	11	0	0	0	0	0	11	11	
Kermadec Islands >1%	11	0	0	0	0	0	11	11	
Kermadec Islands Total	11	11	11	11	11	11	11	11	
North Cook Strait >0%	12	0	18	0	3	22	26	26	
North Cook Strait >1%	8	0	9	0	1	12	18	18	
North Cook Strait Total	39	39	39	39	39	39	39	39	

Appendix 6.1 Number of habitats that have greater than 0 or 1 % of their area in MPAs for each coastal marine bioregion.

Number of different habitats with greater than 0 or 1% of their bioregional area in MPAs	Type I Marine Reserve	No trawl, danish seine, dredge or setnet					Total Type II MPA	Total no take	Total MPA
		No-take Marine Park	Cable or pipeline zone	No trawl, danish seine, dredge	No trawl, danish seine, dredge	No trawl, danish seine, dredge			
North Eastern >0%	19	6	18	11	9	25	24	27	
North Eastern >1%	5	0	7	5	1	16	12	18	
North Eastern Total	41	41	41	41	41	41	41	41	
Snares Islands >0%	0	0	0	0	0	0	0	0	
Snares Islands >1%	0	0	0	0	0	0	0	0	
Snares Islands Total	10	10	10	10	10	10	10	10	
South Cook Strait >0%	17	0	11	0	9	13	21	22	
South Cook Strait >1%	6	0	3	0	3	6	8	11	
South Cook Strait Total	38	38	38	38	38	38	38	38	
Southern South Island >0%	11	0	0	13	0	14	11	14	
Southern South Island >1%	5	0	0	9	0	9	5	10	
Southern South Island Total	37	37	37	37	37	37	37	37	
Subantarctic Islands >0%	17	0	0	0	0	0	17	17	
Subantarctic Islands >1%	17	0	0	0	0	2	17	17	
Subantarctic Islands Total	19	19	19	19	19	19	19	19	
Three Kings >0%	0	0	0	0	0	0	0	0	
Three Kings >1%	0	0	0	0	0	0	0	0	
Three Kings Total	8	8	8	8	8	8	8	8	
West Coast South Island >0%	0	0	0	0	0	0	0	0	
West Coast South Island >1%	0	0	0	0	0	0	0	0	
West Coast South Island Total	21	21	21	21	21	21	21	21	
Western North Island >0%	7	0	7	6	0	9	10	10	
Western North Island >1%	5	0	6	2	0	8	9	9	
Western North Island Total	32	32	32	32	32	32	32	32	

Appendix 6.2 Number of habitats with greater than 0 or 1 % of their area in other management tools for each bioregion.

Number of different habitats with greater than 0 or 1% of their bioregional area in management tools that do not meet the MPA protection standard	Management Tools									
	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited	
Chatham Islands >0%	0	0	2	0	0	0	0	11	0	16
Chatham Islands >1%	0	0	2	0	0	0	0	4	0	15
Chatham Islands Total	18	18	18	18	18	18	18	18	18	18
East Coast South Island >0%	6	11	0	0	7	3	0	11	8	
East Coast South Island >1%	2	8	0	0	3	0	0	8	2	
East Coast South Island Total	37	37	37	37	37	37	37	37	37	
Eastern North Island >0%	8	5	0	0	5	0	22	14	31	
Eastern North Island >1%	5	5	0	0	4	0	19	13	30	
Eastern North Island Total	36	36	36	36	36	36	36	36	36	
Fiordland >0%	0	0	0	0	0	0	0	18	0	
Fiordland >1%	0	0	0	0	0	0	0	13	0	
Fiordland Total	26	26	26	26	26	26	26	26	26	
Kermadec Islands >0%	0	0	0	0	0	0	0	0	0	
Kermadec Islands >1%	0	0	0	0	0	0	0	0	0	
Kermadec Islands Total	11	11	11	11	11	11	11	11	11	
North Cook Strait >0%	0	4	3	8	5	4	15	6	36	
North Cook Strait >1%	0	1	1	3	3	2	8	2	34	
North Cook Strait Total	39	39	39	39	39	39	39	39	39	

Appendix 6.2 Number of habitats with greater than 0 or 1 % of their area in other management tools for each bioregion.

Number of different habitats with greater than 0 or 1% of their bioregional area in management tools that do not meet the MPA protection standard	Management Tools										
	Mataitai	Taiapure	Nature Reserve	Scientific Reserve	Other DOC reserve	Temporary closure	No trawl, danish seine or commercial dredge (amateur dredge allowed)	Two of trawl, danish seine or commercial dredge prohibited	One of trawl, danish seine or commercial dredge prohibited		
North Eastern >0%	12	9	11	3	8	0	32	34	26		
North Eastern >1%	2	5	2	1	1	0	26	30	21		
North Eastern Total	41	41	41	41	41	41	41	41	41		
Snares Islands >0%	0	0	2	0	0	0	0	0	0		
Snares Islands >1%	0	0	2	0	0	0	0	0	0		
Snares Islands Total	10	10	10	10	10	10	10	10	10		
South Cook Strait >0%	0	5	12	5	12	0	16	23	19		
South Cook Strait >1%	0	4	6	0	5	0	12	15	14		
South Cook Strait Total	38	38	38	38	38	38	38	38	38		
Southern South Island >0%	20	11	5	4	10	0	13	19	22		
Southern South Island >1%	12	10	1	1	1	0	8	13	12		
Southern South Island Total	37	37	37	37	37	37	37	37	37		
Subantarctic Islands >0%	0	0	2	0	0	0	0	16	0		
Subantarctic Islands >1%	0	0	2	0	0	0	0	13	0		
Subantarctic Islands Total	19	19	19	19	19	19	19	19	19		
Three Kings >0%	0	0	1	0	0	0	0	0	0		
Three Kings >1%	0	0	1	0	0	0	0	0	0		
Three Kings Total	8	8	8	8	8	8	8	8	8		
West Coast South Island >0%	0	0	0	0	7	0	0	0	0		
West Coast South Island >1%	0	0	0	0	4	0	0	0	0		
West Coast South Island Total	21	21	21	21	21	21	21	21	21		
Western North Island >0%	10	15	0	3	3	0	13	28	18		
Western North Island >1%	6	11	0	1	1	0	12	25	17		

