

NUMBER OF MARINE MAMMALS TAKEN INCIDENTALLY
BY JAPANESE MOTHERSHIP GILLNET AND LANDBASED
DRIFTNET SALMON FISHERIES IN 1987

Fisheries Agency of Japan

1988 March

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and 10-day period in 1987.

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and 10-day period in 1987.

Table 1. Number of marine mammals taken incidentally by mothership gillnet salmon fishery by 1°X 1° area and 10-day period in 1987.

1-1 Dall's porpoise

	168E	170E	172E	174E	176E	178E	180	178W			
59N						14 3 0.214	35 6 0.171	31 4 0.129	32 4 0.125	6 1 0.167	
58N					1 0 0.000	34 4 0.118	60 3 0.050	51 6 0.118	58 7 0.121	72 8 0.111	50 8 0.160
57N					13 0 0.000	65 8 0.123	57 4 0.070	48 9 0.188	42 4 0.095	10 1 0.100	18 2 0.111
56N											
55N			6 2 0.333	1 0 0.000						4 1 0.250	
54N		1 0 0.000	14 5 0.357	27 6 0.222	5 2 0.400	8 2 0.250	42 10 0.238				
53N		19 3 0.158	33 7 0.212		1 1 1.000		8 2 0.250				
52N	31 3 0.097	81 11 0.136	46 6 0.130	33 8 0.242	78 21 0.269	389 109 0.280	407 121 0.297				
51N	2 0 0.000	35 6 0.171	47 2 0.043	68 22 0.324	276 73 0.264	475 108 0.227	304 68 0.224				
50N			34 3 0.088	18 2 0.111	73 15 0.205	181 37 0.204	106 24 0.226				
49N			62 6 0.097	47 8 0.170	73 11 0.151	70 8 0.114	18 2 0.111				
48N			10 0 0.000	22 2 0.091	22 1 0.045	14 1 0.071					
47N											
46N											

BY FLEET				
	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	946 219 0.232	919 232 0.252	943 225 0.239	2808 676 0.241
HING SEA NORTH	229 37 0.162	246 31 0.126	222 14 0.063	697 82 0.118
HING SEA SOUTH	122 14 0.115	129 15 0.116	132 14 0.106	383 43 0.112
TOTAL	1297 270 0.208	1294 278 0.215	1297 253 0.195	3888 801 0.206

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W
59N								
58N								
57N								
56N								
55N								
54N								
53N								
52N								
51N				1 0 0.000				
50N			1 0 0.000	1 0 0.000				1 0 0.000
49N		24 2 0.083	12 2 0.167	3 0 0.000				1 0 0.000
48N		62 6 0.097	47 8 0.170	73 11 0.151	70 8 0.114			18 2 0.111
47N		10 0 0.000	22 2 0.091	22 1 0.045	14 1 0.071			
46N								

EARLY JUNE

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	5 0 0.000			5 0 0.000
HIGH SEA NORTH				
HIGH SEA SOUTH	122 14 0.115	129 15 0.116	126 14 0.111	377 43 0.114
TOTAL	127 14 0.110	129 15 0.116	126 14 0.111	382 43 0.113

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W
59N								
		MID JUNE						
58N								
57N								
56N								
55N								
54N								
53N								
52N								
	11 1 0.091	31 2 0.065	29 2 0.069	32 8 0.250	34 7 0.206	146 37 0.253	101 26 0.257	
51N								
	2 0 0.000	29 5 0.172	30 2 0.067	31 6 0.194	133 29 0.218	209 42 0.201	145 37 0.255	
50N								
			10 1 0.100	4 0 0.000	36 6 0.167	95 21 0.221	67 12 0.179	
49N								
48N								
47N								
46N								

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	393 74 0.188	391 112 0.286	385 58 0.151	1169 244 0.209
HING SEA NORTH				
HING SEA SOUTH			6 0 0.000	6 0 0.000
TOTAL	393 74 0.188	391 112 0.286	391 58 0.148	1175 244 0.208

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W
59N								1 0 0.000
		LATE JUNE						
58N						1 0 0.000	1 0 0.000	1 0 0.000
57N								
56N								
55N			6 2 0.333	1 0 0.000				
54N		1 0 0.000	14 5 0.357	27 6 0.222	3 2 0.667			
53N		16 3 0.188	27 7 0.259					
52N	12 2 0.167	45 8 0.178	17 4 0.235	14 2 0.143	139 53 0.381	162 61 0.377		
51N		5 1 0.200	15 0 0.000	29 11 0.379	112 35 0.313	186 41 0.220	92 15 0.163	
50N				34 9 0.265	81 13 0.160	31 10 0.323		
49N								
48N								
47N								
46N								

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	301 72 0.239	381 96 0.252	387 122 0.315	1069 290 0.271
HIGH SEA NORTH		4 0 0.000		4 0 0.000
HIGH SEA SOUTH				
TOTAL	301 72 0.239	385 96 0.249	387 122 0.315	1073 290 0.270

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W
59N								1 0 0.000
58N						1 0 0.000	1 0 0.000	1 0 0.000
57N								
56N								
55N			6 2 0.333	1 0 0.000				
54N		1 0 0.000	14 5 0.357	27 6 0.222	3 2 0.667			
53N		16 3 0.188	27 7 0.259					
52N	23 3 0.130	76 10 0.132	46 6 0.130	32 8 0.250	49 9 0.184	285 90 0.316	263 87 0.331	
51N	2 0 0.000	34 6 0.176	45 2 0.044	61 17 0.279	246 64 0.260	395 83 0.210	238 52 0.218	
50N			34 3 0.088	16 2 0.125	73 15 0.205	176 34 0.193	99 22 0.222	
49N			62 6 0.097	47 8 0.170	73 11 0.151	70 8 0.114	18 2 0.111	
48N			10 0 0.000	22 2 0.091	22 1 0.045	14 1 0.071		
47N								
46N								

TOTAL JUNE

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	699 146 0.209	772 208 0.269	772 180 0.233	2243 534 0.238
HIGH SEA NORTH		4 0 0.000		4 0 0.000
HIGH SEA SOUTH	122 14 0.115	129 15 0.116	132 14 0.106	383 43 0.112
TOTAL	821 160 0.195	905 223 0.246	904 194 0.215	2630 577 0.219

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W			
59N						14 3	35 6	31 4	32 4	5 1	
		EARLY JULY				0.214	0.171	0.129	0.125	0.200	
58N					1 0	34 4	59 3	51 6	57 7	72 8	49 8
					0.000	0.118	0.051	0.118	0.123	0.111	0.163
57N											
56N					13 0	65 8	57 4	48 9	42 4	10 1	18 2
					0.000	0.123	0.070	0.188	0.095	0.100	0.111
55N											
54N										4 1	0.250
				2 0	8 2	42 10					
				0.000	0.250	0.238					
53N		3 0	6 0	1 1		8 2					
		0.000	0.000	1.000		0.250					
52N	8 0	5 1		1 0	29 12	82 13	111 31				
	0.000	0.200		0.000	0.414	0.159	0.279				
51N		1 0	2 0	7 5	30 9	50 21	33 13				
		0.000	0.000	0.714	0.300	0.420	0.394				
50N				2 0		1 1					
				0.000		1.000					
49N											
48N											
47N											
46N											

BY FLEET				
	KIZAN	MEIYO	NOJIMA	TOTAL
	MARU	MARU	MARU	
FCZ	161 56	104 21	171 45	436 122
	0.348	0.202	0.263	0.280
HIGH SEA NORTH	229 37	242 31	222 14	693 82
	0.162	0.128	0.063	0.118
HIGH SEA SOUTH				
TOTAL	390 93	346 52	393 59	1129 204
	0.238	0.150	0.150	0.181

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W
59N								
		MID JULY						
58N								
57N								
56N								
55N								
54N								
53N								
52N				22 6 0.273	33 3 0.091			
51N				30 4 0.133	33 3 0.091			
50N				4 2 0.500	7 2 0.286			
49N								
48N								
47N								
46N								

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	TOTAL
FCZ	86 17 0.198	43 3 0.070		129 20 0.155
HIHG SEA NORTH				
HIHG SEA SOUTH				
TOTAL	86 17 0.198	43 3 0.070		129 20 0.155

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

	168E	170E	172E	174E	176E	178E	180	178W			
59N						14	35	31	32	5	
						3	6	4	4	1	
						0.214	0.171	0.129	0.125	0.200	
58N					1	34	59	51	57	72	49
					0	4	3	6	7	8	8
					0.000	0.118	0.051	0.118	0.123	0.111	0.163
57N					13	65	57	48	42	10	18
					0	8	4	9	4	1	2
					0.000	0.123	0.070	0.188	0.095	0.100	0.111
56N											
55N										4	
										1	
										0.250	
54N				2	8	42					
				0	2	10					
				0.000	0.250	0.238					
53N		3	6	1	8						
		0	0	1	2						
		0.000	0.000	1.000	0.250						
52N	8	5	1	29	104	144					
	0	1	0	12	19	34					
	0.000	0.200	0.000	0.414	0.183	0.236					
51N		1	2	7	30	80	66				
		0	0	5	9	25	16				
		0.000	0.000	0.714	0.300	0.313	0.242				
50N			2	5	7						
			0	3	2						
			0.000	0.600	0.286						
49N											
48N											
47N											
46N											

TOTAL JULY

BY FLEET

	KIZAN	MEIYO	NOJIMA	TOTAL
	MARU	MARU	MARU	
FCZ	247	147	171	565
	73	24	45	142
	0.296	0.163	0.263	0.251
HING	229	242	222	693
SEA	37	31	14	82
NORTH	0.162	0.128	0.063	0.118
HING				
SEA				
SOUTH				
TOTAL	476	389	393	1258
	110	55	59	224
	0.231	0.141	0.150	0.178

**** LEGEND ****

UPPER : NUMBER OF OPERATIONS (A)
MIDDLE : NUMBER OF DALL'S PORPOISE TAKEN (B)
LOWER : C P U E (B / A)

1-2 Harbor Porpoise

10 DAYS	1° × 1° AREA	NUMBER OF TAKEN
EARLY JUNE		0
MID JUNE		0
LATE JUNE		0
JUNE TOTAL		0
EARLY JULY	5174E	1
MID JULY		0
JULY TOTAL		1
GRAND TOTAL		1

1-3 Northern fur seal

10 DAYS	1° × 1° AREA	NUMBER OF TAKEN
EARLY JUNE		0
MID JUNE	5170E	1
DO	5171E	1
DO	5073E	4
LATE JUNE		0
JUNE TOTAL		6
EARLY JULY		0
MID JULY		0
JULY TOTAL		0
GRAND TOTAL		6

* All northern fur seals were released due to aliveness.

Table 2.
 Number of Dall's porpoise taken
 incidentally by landbased
 driftnet salmon fishery by 2°x5°
 area and 10-day period in 1987.

GRAND TOTAL 458

















