

INPFC DOCUMENT Ser. No. 2864 Rev. No. ....
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NUMBER OF MARINE MAMMALS TAKEN INCIDENTALLY BY  
JAPANESE MOTHERSHIP GILLNET AND LANDBASED DRIFTNET  
SALMON FISHERIES IN 1984

FISHERIES AGENCY OF JAPAN

1985 JANUARY

Contents :

1. Number of marine mammals taken incidentally by mothership gillnet salmon fishery by  $1^{\circ} \times 1^{\circ}$  area and 10-day period in 1984

1-1 Dall' s purpoise

1-2 Nothern fur seal

※

2. Number of dall' s purpoise taken incidentally by landbased driftnet salmon fishery by  $2^{\circ} \times 5^{\circ}$  area and 10-day period in 1984

※ includes one Nothern Right Dorphin taken by this fishery  
(its catch location is not reported)



1. NUMBER OF MARINE MAMMALS TAKEN INCIDENTALLY BY MOTHERSHIP  
 FISHERY BY 1°X1° AREA AND 10-DAY PERIOD IN 1984  
 1-1 DALL'S PORPOISE

	68E	170E	72E	74E	76E	78E	180	78W	76				
59N	GRAND TOTAL												
						2	11	38	40	77	18		
						2	2	7	16	16	11		
						1	0.182	0.184	0.4	0.208	0.611		
58N					8	50	47	59	28	84	63	33	
					3	18	17	21	1	18	16	11	
					0.375	0.36	0.362	0.356	0.036	0.214	0.254	0.333	
57N				3	6	75	147	95	133	75	86	89	51
				0	2	16	40	18	39	21	36	18	18
				0	0.333	0.213	0.272	0.189	0.293	0.28	0.419	0.202	0.353
56N				1	41	72							
				2	13	35							
				2	0.317	0.486							
55N			1	2	29	24							
			0	0	11	9							
			0	0	0.379	0.375							
54N		27	10	1	2	12							
		31	7	0	0	13							
		1.148	0.7	0	0	1.083							
53N		43	73	62	22	1	53						
		14	41	41	21	0	24						
		0.326	0.562	0.661	0.955	0	0.453						
52N	157	136	137	124	232	565	856						
	55	49	59	44	85	226	358						
	0.35	0.36	0.431	0.355	0.366	0.4	0.418						
51N	8	56	86	147	324	593	819						
	3	12	26	47	103	188	307						
	0.375	0.214	0.302	0.32	0.318	0.317	0.375						
50N		27	56	160	313	432							
		5	16	36	92	153							
		0.185	0.286	0.225	0.294	0.354							
49N		95	86	106	103	121							
		9	10	16	16	30							
		0.095	0.116	0.151	0.155	0.248							
48N		126	106	93	129	185							
		15	15	16	13	21							
		0.119	0.142	0.172	0.101	0.114							
47N		54	38	21	25	23							
		7	3	1	3	2							
		0.13	0.079	0.048	0.12	0.087							
46N													

BY FLEET

	KIZAN	MEIYO	NOJIMA	JINYO	TOTAL
	MARU	MARU	MARU	MARU	
	1394	1374	1478	1448	5694
FCZ	639	380	445	665	2129
	0.458	0.277	0.301	0.459	0.374
HIGH	630	691	629	689	2639
	128	124	130	159	541
SEA	0.203	0.179	0.207	0.231	0.205
TOTAL	2024	2065	2107	2137	8333
	767	504	575	824	2670
	0.379	0.244	0.273	0.386	0.32

\*\*\*\* LEGEND \*\*\*\*

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

$\frac{16}{53.038} = 0.30$

$\frac{96}{263.509} = 0.36$

	68E	170E	72E	74E	76E	78E	180	78W	76
59N		EARLY JUNE							
58N									76
57N									
56N									
55N									
54N			2 1 0.5						
53N		1 1 1		2 0 0					
52N	17 5 0.294	17 2 0.118	12 0 0	6 2 0.333	2 0 0	2 2 1	2 0 0		
51N	1 0 0	12 2 0.167	5 1 0.2	11 3 0.273	24 1 0.042	28 1 0.036	17 2 0.118		
50N			26 5 0.192	7 2 0.286	1 0 0	4 0 0	6 0 0		
49N			95 9 0.095	86 10 0.116	106 16 0.151	101 16 0.158	108 22 0.204		
48N			126 15 0.119	106 15 0.142	93 16 0.172	129 13 0.101	185 21 0.114		
47N			54 7 0.13	38 3 0.079	21 1 0.048	25 3 0.12	23 2 0.087		
46N									

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	43 10 0.233	43 3 0.07	43 4 0.093	43 6 0.14	172 23 0.134
HIGH	300 38	344 41	344 52	341 45	1329 176
SEA	0.127	0.119	0.151	0.132	0.132
TOTAL	343 48 0.14	387 44 0.114	387 56 0.145	384 51 0.133	1501 199 0.133

	68E	170E	72E	74E	76E	78E	180	78W	7
59N		MID JUNE							
58N									
57N									
56N									
55N									1 0 0
54N			19 26 1.368	5 6 1.2	1 0 0				3 4 1.333
53N		16 7 0.438	36 24 0.667	38 33 0.868	17 13 0.765	1 0 0			16 8 0.5
52N		12 9 0.75	6 3 0.5	48 28 0.583	45 20 0.444	113 50 0.442	168 62 0.369		248 114 0.46
51N			5 3 0.6	20 6 0.3	56 15 0.268	121 26 0.215	171 46 0.269		223 94 0.422
50N				24 2 0.083	71 10 0.141	108 38 0.352	121 38 0.314		
49N									7 4 0.571
48N									
47N									
46N									

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	430 195 0.453	430 125 0.291	430 131 0.305	430 238 0.553	1720 689 0.401
HIGH					0 0
SEA					
TOTAL	430 195 0.453	430 125 0.291	430 131 0.305	430 238 0.553	1720 689 0.401

	68E	170E	72E	74E	76E	78E	180	78W	71				
59N		LATE JUNE				3 1 0.333	10 2 0.2	21 8 0.381	16 4 0.25	2 2 1			
58N					2 1 0.5	12 4 0.333	20 6 0.3	13 4 0.308	9 0 0	11 4 0.364	12 4 0.333	1 0 0	
57N				2 0 0	3 1 0.333	24 10 0.417	37 9 0.243	17 5 0.294	2 0 0	3 0 0	2 1 0.5	1 0 0	1 0 0
56N				1 2 2	13 7 0.533	29 18 0.621							
55N				2 0 0								6 3 0.5	
54N			2 0 0									4 3 0.75	
53N		13 0 0	8 1 0.125	12 2 0.167	2 1 0.5							17 5 0.294	
52N	19 4 0.211	20 0 0	26 6 0.231	34 12 0.353	73 16 0.219	116 43 0.371	115 56 0.487						
51N		11 0 0	10 1 0.1	12 1 0.083	28 3 0.107	74 35 0.473	147 53 0.361						
50N				3 0 0	23 4 0.174	67 19 0.284	88 34 0.386						
49N													
48N													
47N													
46N													

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	254 141 0.555	295 57 0.193	299 82 0.274	132 50 0.379	980 330 0.337
HIGH	47 17	8 1		164 47	219 65
SEA	0.362	0.125		0.287	0.297
TOTAL	301 158 0.525	303 58 0.191	299 82 0.274	296 97 0.328	1199 395 0.329

	68E	170E	72E	74E	76E	78E	180	78W	70			
59N	EARLY JULY					2 2 1	7 1 5	28 8 12	19 12 9	61 12 9	16 9	
58N						0.143	0.179	0.421	0.197	0.563		
57N					1 0 0	28 9 0.321	24 7 0.292	41 14 0.341	18 1 0.056	47 11 0.234	43 12 0.279	30 9 0.3
56N					32 4 0.125	66 12 0.182	42 6 0.143	55 18 0.327	20 9 0.45	14 3 0.214	39 5 0.128	39 15 0.385
55N					4 2 0.5							
54N					2 1 0.5							
53N			3 3 1	2 0 0								
52N		12 5 0.417	26 15 0.577	10 6 0.6	2 4 2			19 11 0.579				
51N		32 12 0.375	20 10 0.5	18 6 0.333	11 3 0.273	17 9 0.529	67 31 0.463	178 65 0.365				
50N		3 2 0.667	6 2 0.333	10 6 0.6	31 13 0.419	57 36 0.632	86 44 0.512	127 56 0.441				
49N					1 0 0	1 0 0	9 1 0.111					
48N												
47N												
46N												

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	65 28 0.431	171 82 0.48	336 132 0.393	182 101 0.555	754 343 0.455
HIGH	283 73	173 30	52 14	164 55	672 172
SEA	0.258	0.173	0.269	0.335	0.256
TOTAL	348 101 0.29	344 112 0.326	388 146 0.376	346 156 0.451	1426 515 0.361



	68E	170E	72E	74E	76E	78E	180	78W	76W				
59N		MID JULY					1						
							0						
							0						
58N					5	10	3	5	1	26	8	2	
					2	5	4	3	0	3	0	2	
					0.4	0.5	1.333	0.6	0	0.115	0	1	
57N				1	3	19	44	36	76	52	70	49	11
				0	1	2	19	7	21	12	32	13	3
				0	0.333	0.105	0.432	0.194	0.276	0.231	0.457	0.265	0.273
56N				28	39								
				6	15								
				0.214	0.385								
55N			1	27	17								
			0	10	6								
			0	0.37	0.353								
54N			3	1	2	5							
			1	1	0	6							
			0.333	1	0	1.2							
53N		1		1	1								
		1		3	0								
		1		3	0								
52N	45	20	6	10	10	116	200						
	12	4	8	2	3	58	83						
	0.267	0.2	1.333	0.2	0.3	0.5	0.415						
51N	3	15	35	28	47	114	165						
	0	3	10	14	15	41	64						
	0	0.2	0.286	0.5	0.319	0.36	0.388						
50N		1	21	61	73	101							
		0	12	22	21	44							
		0	0.571	0.361	0.288	0.436							
49N					2	6							
					0	4							
					0	0.667							
48N													
47N													
46N													

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	430	220	155	403	1208
	186	67	44	173	470
	0.433	0.305	0.284	0.429	0.389
HIGH		166	233	20	419
		52	64	12	128
		0.313	0.275	0.6	0.305
SEA					
	430	386	388	423	1627
TOTAL	186	119	108	185	598
	0.433	0.308	0.278	0.437	0.368

	68E	170E	72E	74E	76E	78E	180	78W	76
59N		LATE JULY							
58N									
57N									
56N									
55N									
54N									
53N			3						
			1						
			0.333						
52N	32	53	27	18	17	96	113		
	13	30	11	5	7	30	40		
	0.406	0.566	0.407	0.278	0.412	0.313	0.354		
51N	1	7	6	9	47	120	140		
	1	2	2	1	22	21	38		
	1	0.286	0.333	0.111	0.468	0.175	0.271		
50N				1	3	60	107		
				0	0	14	36		
				0	0	0.233	0.336		
49N									
48N									
47N									
46N									

BY FLEET

	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	172	215	215	258	860
	79	46	52	97	274
	0.459	0.214	0.242	0.376	0.319
HIGH					0
SEA					0
TOTAL	172	215	215	258	860
	79	46	52	97	274
	0.459	0.214	0.242	0.376	0.319

61

	68E	170E	72E	74E	76E	78E	180	78W	76					
59N	TOTAL JUNE					3 1	10 2	21 8	16 4	2 2				
						0.333	0.2	0.381	0.25	1				
58N					2 1	12 4	20 6	13 4	9 0	11 4	12 4	1 0		
					0.5	0.333	0.3	0.308	0	0.364	0.333	0		
57N					2 0	3 1	24 10	37 9	17 5	2 0	3 0	2 1	1 0	1 0
					0	0.333	0.417	0.243	0.294	0	0	0.5	0	0
56N					1 2	13 7	29 18							
					2	0.538	0.621							
55N					2 0		7 3							
					0		0.429							
54N						21 27	7 6	1 0		7 7				
						1.286	0.857	0		1				
53N						30 8	44 25	52 35	19 14	1 0	33 13			
						0.267	0.568	0.673	0.737	0	0.394			
52N					48 18	43 5	86 34	85 34	188 66	286 107	365 170			
					0.375	0.116	0.395	0.4	0.351	0.374	0.466			
51N					1 0	28 5	35 8	79 19	173 30	273 82	387 149			
					0	0.179	0.229	0.241	0.173	0.3	0.385			
50N						26 5	34 4	95 14	179 57	215 72				
						0.192	0.118	0.147	0.318	0.335				
49N						95 9	86 10	106 16	101 16	115 26				
						0.095	0.116	0.151	0.158	0.226				
48N						126 15	106 15	93 16	129 13	185 21				
						0.119	0.142	0.172	0.101	0.114				
47N						54 7	38 3	21 1	25 3	23 2				
						0.13	0.079	0.048	0.12	0.087				
46N														

BY FLEET					
	KIZAN MARU	MEIYO MARU	NOJIMA MARU	JINYO MARU	TOTAL
FCZ	727 346 0.476	768 185 0.241	772 217 0.281	605 294 0.486	2872 1042 0.363
HIGH	347 55	352 42	344 52	505 92	1548 241
SEA	0.159	0.119	0.151	0.182	0.156
TOTAL	1074 401 0.373	1120 227 0.203	1116 269 0.241	1110 386 0.348	4420 1283 0.29

	68E	170E	72E	74E	76E	78E	180	78W	7E				
59N	TOTAL JULY					21	81	281	191	611	161		
						21	11	51	81	121	91		
						11	0.1251	0.1791	0.4211	0.1971	0.5631		
58N					61	381	271	461	191	731	511	321	
					21	141	111	171	11	141	121	111	
					0.3331	0.3681	0.4071	0.371	0.0531	0.1921	0.2351	0.3441	
57N				11	31	51	1101	781	131	721	841	881	501
				01	11	61	31	131	391	211	351	181	181
				01	0.3331	0.1181	0.2821	0.1671	0.2981	0.2921	0.4171	0.2051	0.361
56N				281	431								
				61	171								
				0.2141	0.3951								
55N			11	291	171								
			01	11	61								
			01	0.3791	0.3531								
54N		61	31	21	51								
		41	11	01	61								
		0.6671	0.3331	01	1.21								
53N		131	291	101	31								
		61	161	61	71								
		0.4621	0.5521	0.61	2.3331								0.551
52N	1091	931	51	391	441	2791	491						
	371	441	251	101	191	1191	1881						
	0.3391	0.4731	0.491	0.2561	0.4321	0.4271	0.3831						
51N	71	281	51	681	151	3201	4321						
	31	71	181	281	731	1061	1581						
	0.4291	0.251	0.3531	0.4121	0.4831	0.3311	0.3661						
50N			11	221	651	1341	2171						
			01	121	221	351	811						
			01	0.5451	0.3381	0.2611	0.3731						
49N						21	61						
						01	41						
						01	0.6671						
48N													
47N													
46N													

BY FLEET

	KIZAN	MEIYO	NOJIMA	JINYO	TOTAL
	MARU	MARU	MARU	MARU	
	6671	6061	7061	8431	28221
FCZ	2931	1951	2281	3711	10871
	0.4391	0.3221	0.3231	0.441	0.3851
HIGH	2831	3391	2851	1841	10911
	731	821	781	671	3001
SEA	0.2581	0.2421	0.2741	0.3641	0.2751
TOTAL	9501	9451	9911	10271	39131
	3661	2771	3061	4381	13871
	0.3851	0.2931	0.3091	0.4261	0.3541

## 1-2. NORTHERN FUR SEAL

10 DAYS	1° X 1° AREA	NUMBER OF TAKEN
EARLY JUNE		0
MID JUNE	5074E	1
LATE JUNE	5169E	1
JUNE TOTAL		2
EARLY JULY	5879W	1
EARLY JULY	5168E	1
MID JULY	5574E	1
LATE JULY		0
JULY TOTAL		3
GRAND TOTAL		5



GRAND TOTAL 813

SAKHALIN

HOKKAIDO

HONSHU

	(4245)	(4250)	(4255)	(4260)	(4265)	(4270)
	108,062 5 .05	13,725 1 .07	431,812 127 .29	643,985 237 .37	533,053 TANS 175 <sup>PD</sup> .33	360,121 109 .30
(4040)	(4045)	(4050)	(4055)	(4060)	(4065)	(4070)
5,445	143,207 6 .04	5,410 0	58,743 20 .34	66,450 24 .36	52,255 25 .45	55,447 19 .34
(3840)	(3845)	(3850)	(3855)	(3860)	(3865)	
	13,530					
	145°E	150°E	155°E	160°E	165°E	170°E

46°N  
44°N  
42°N  
40°N  
38°N

MSHIP

4670  
53,058 TANS  
96 PD  
(1.81)

(4470)  
308,868  
65 (.21)

PD/10007

*21*  
*253,509*  
*36 etc*  
~~813~~

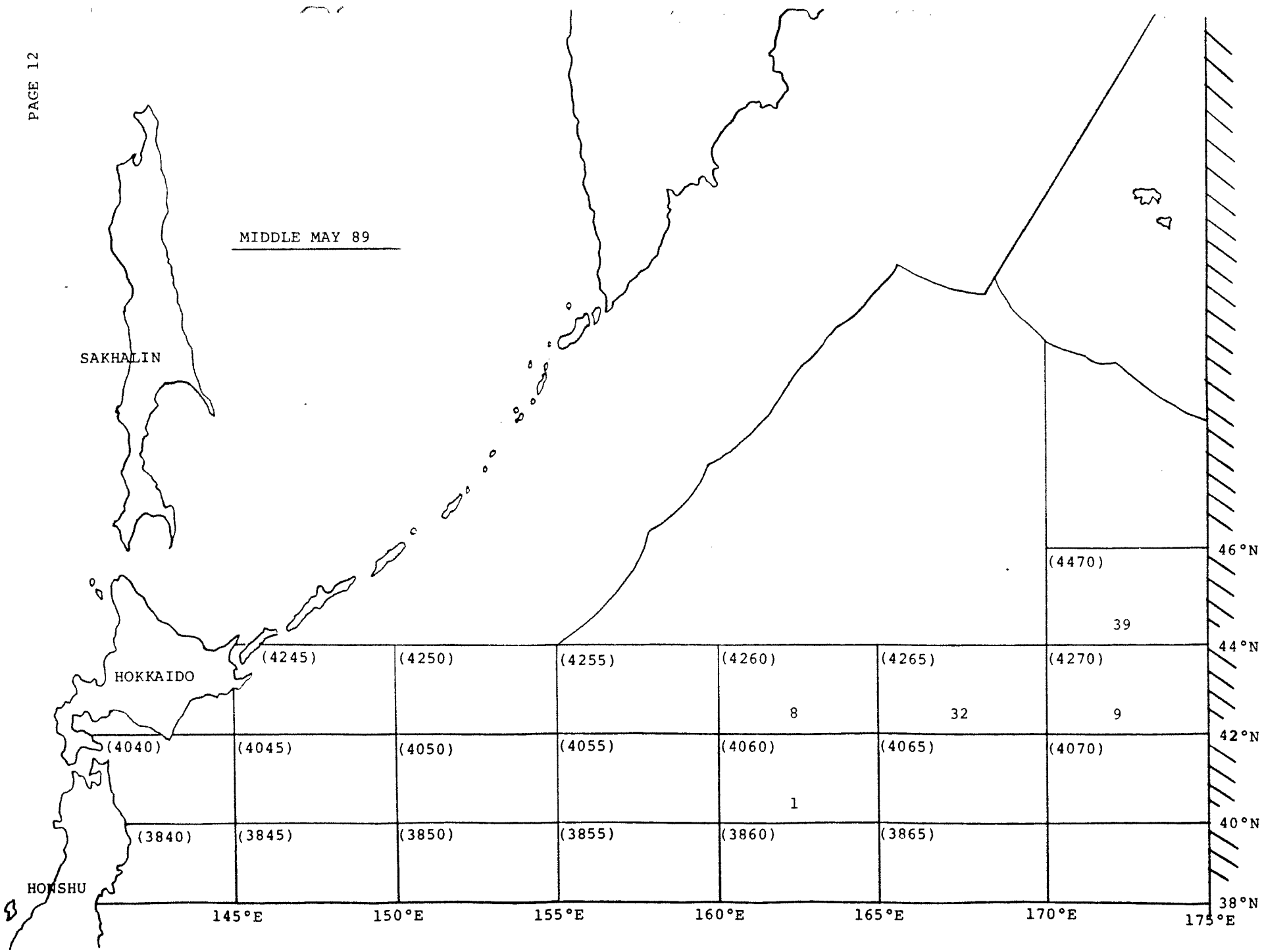
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MIDDLE MAY 89

SAKHALIN

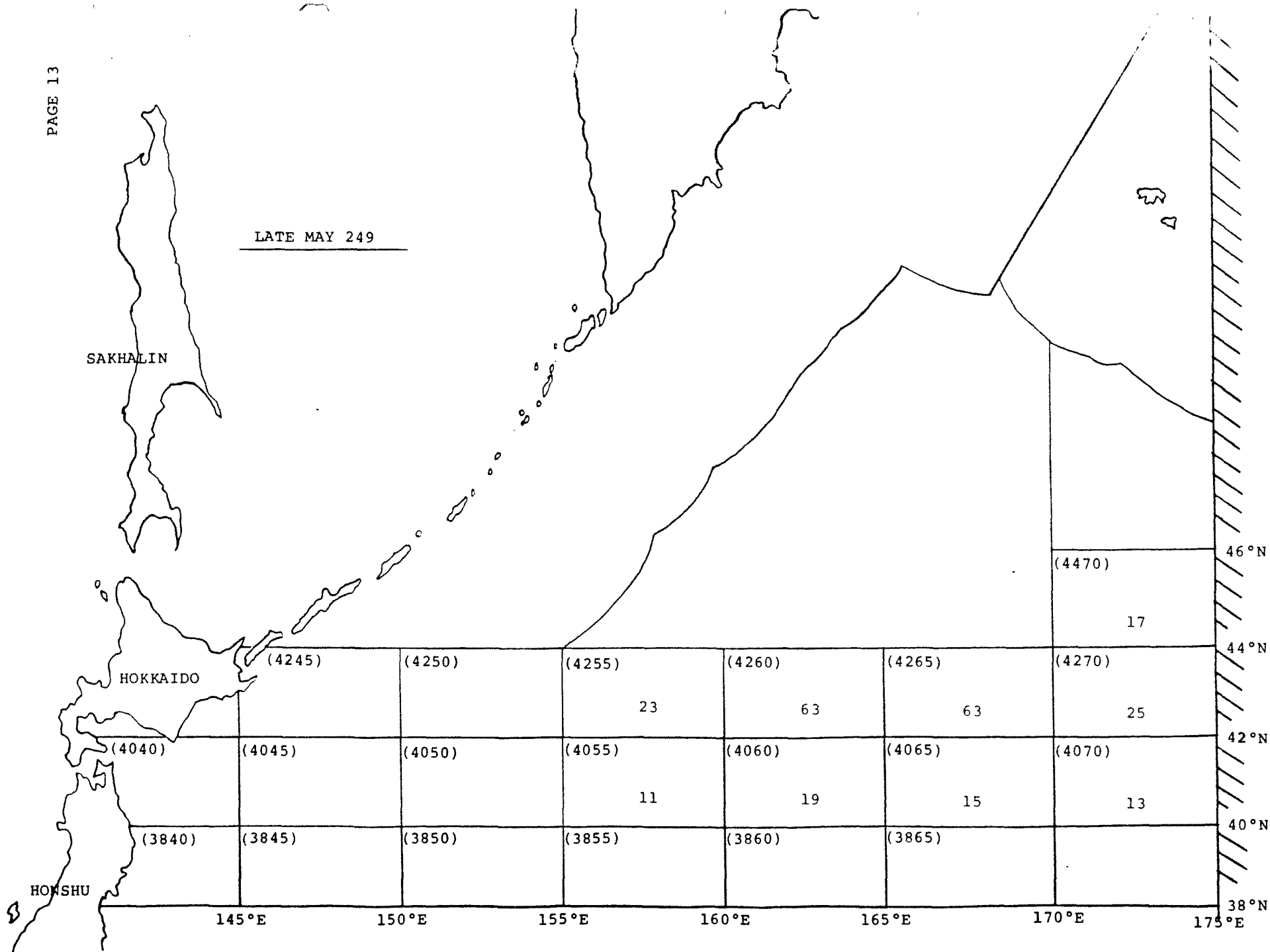
HOKKAIDO

HONSHU





LATE MAY 249



EARLY JUNE 169

SAKHALIN

HOKKAIDO

HONSHU

	(4245)	(4250)	(4255)	(4260)	(4265)	(4270)
		1	54	36	34	13
(4040)	(4045)	(4050)	(4055)	(4060)	(4065)	(4070)
			8	3	5	6
(3840)	(3845)	(3850)	(3855)	(3860)	(3865)	
145°E	150°E	155°E	160°E	165°E	170°E	175°E

30  
 (4470)  
 9

210

46°N PD  
 49, 46.5 Tans  
 0.18

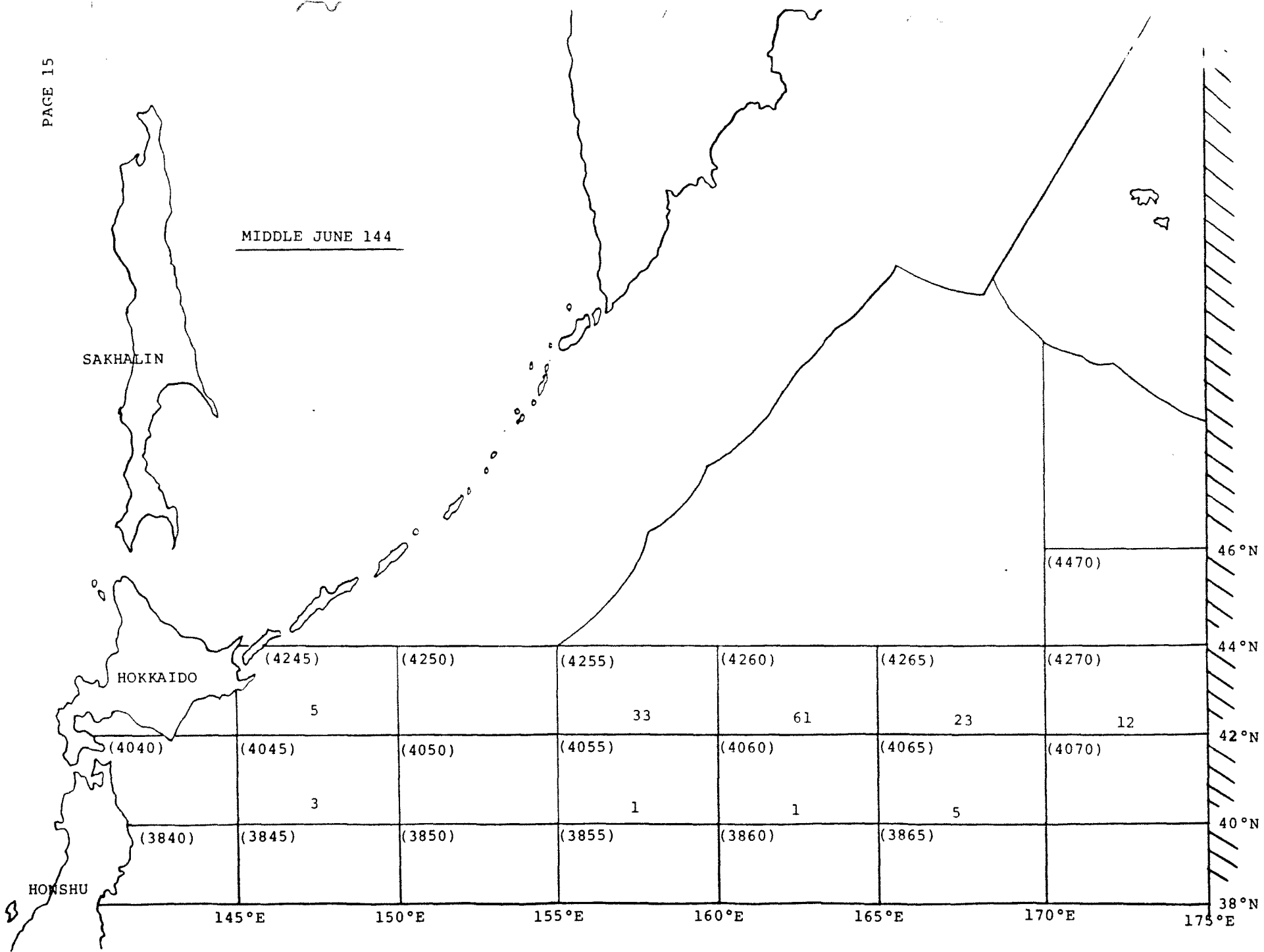
44°N

42°N

40°N

38°N

MIDDLE JUNE 144



SAKHALIN

HOKKAIDO

HONSHU

145°E

150°E

155°E

160°E

165°E

170°E

175°E

46°N

44°N

42°N

40°N

38°N

(4245)

(4250)

(4255)

(4260)

(4265)

(4270)

5

33

61

23

12

(4040)

(4045)

(4050)

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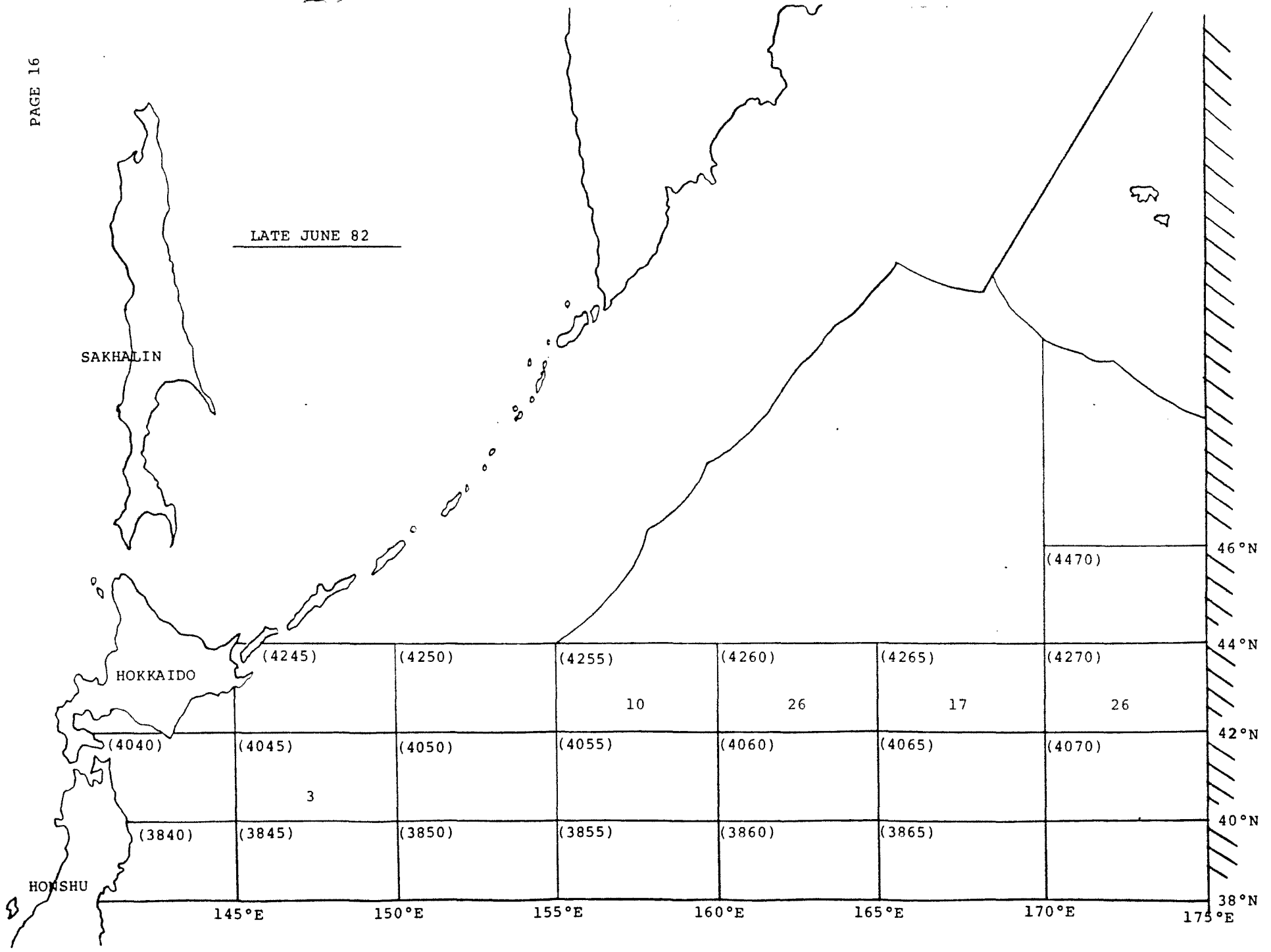
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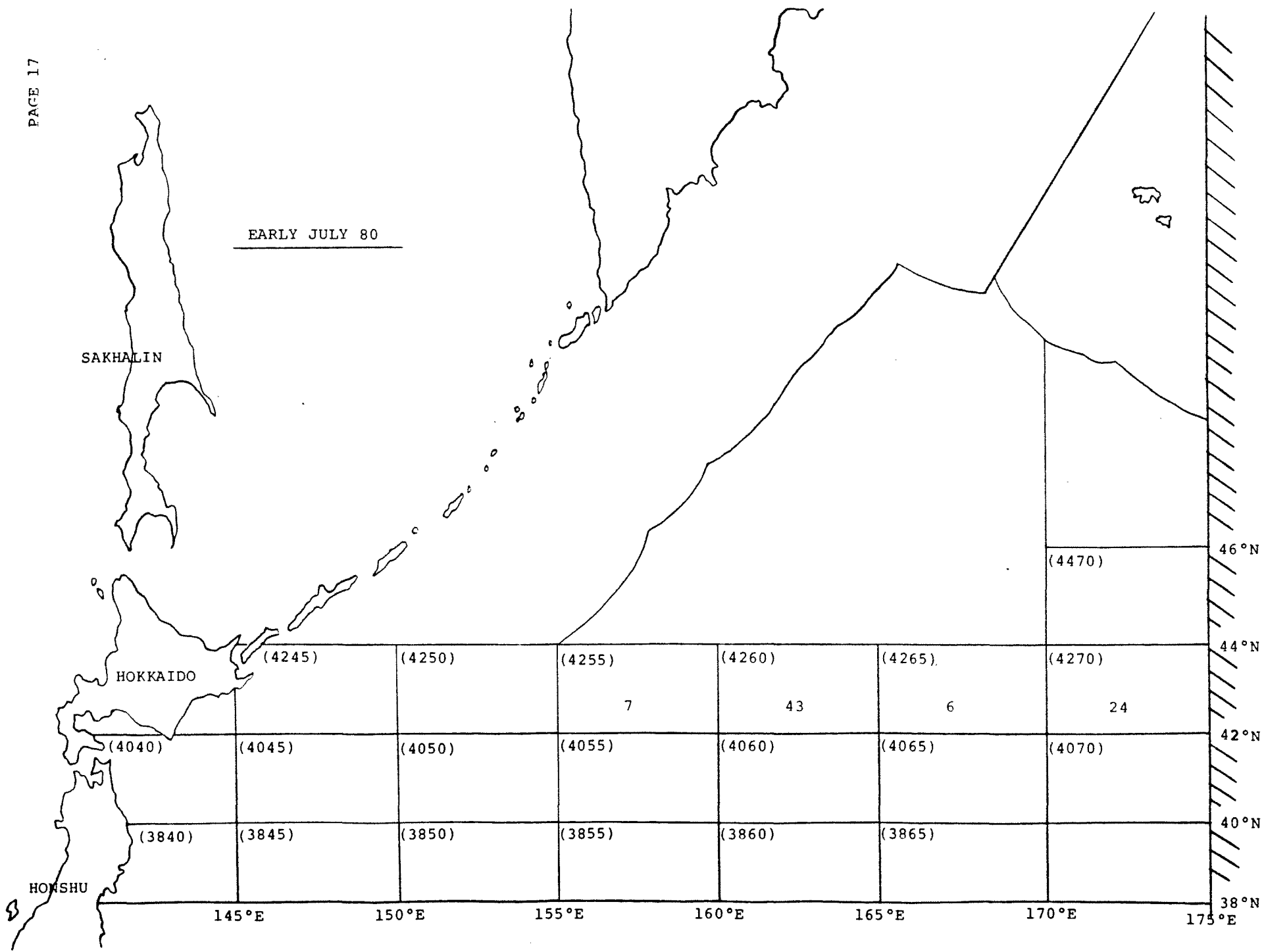
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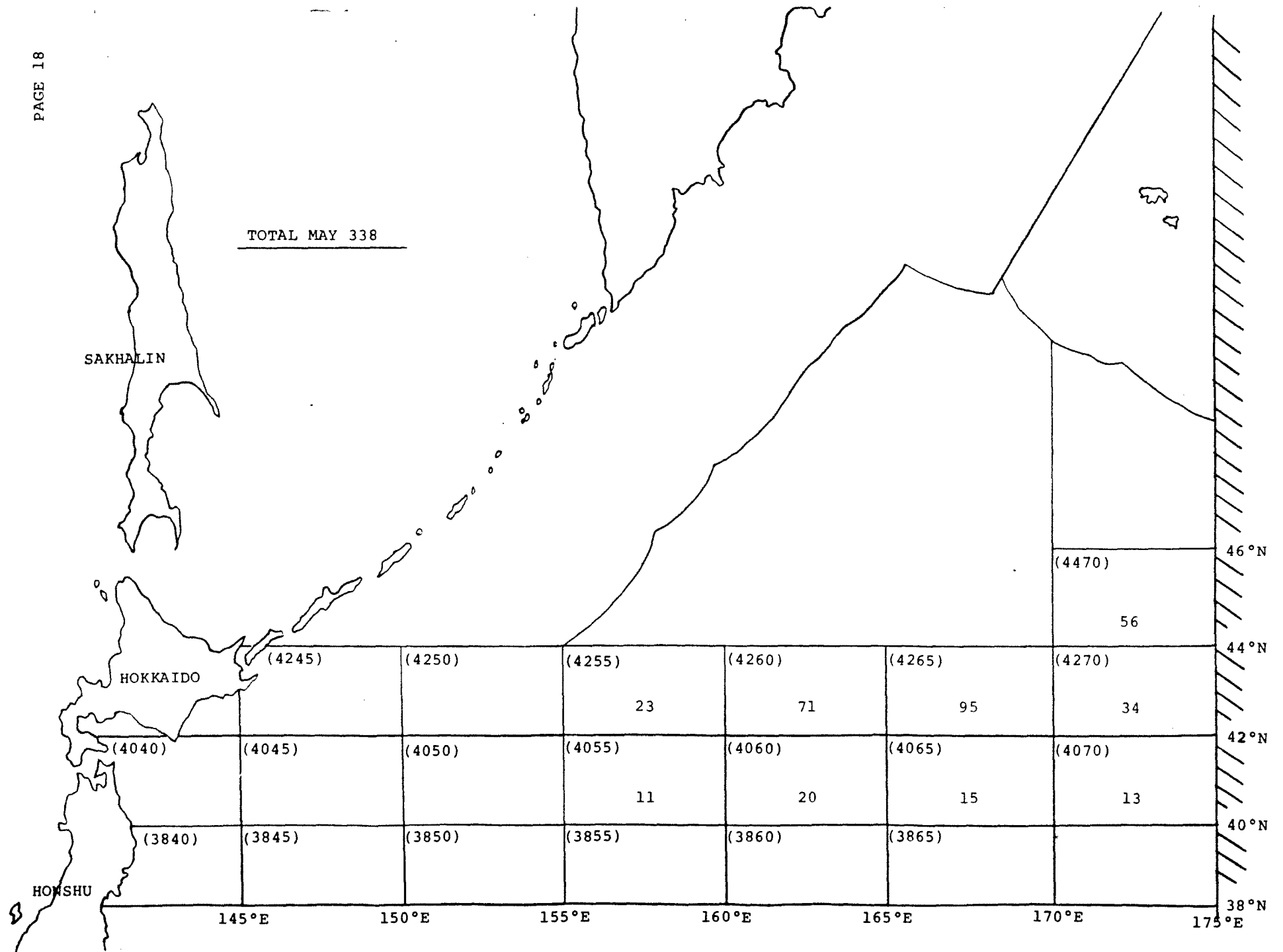
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LATE JUNE 82



EARLY JULY 80





TOTAL JUNE 395

