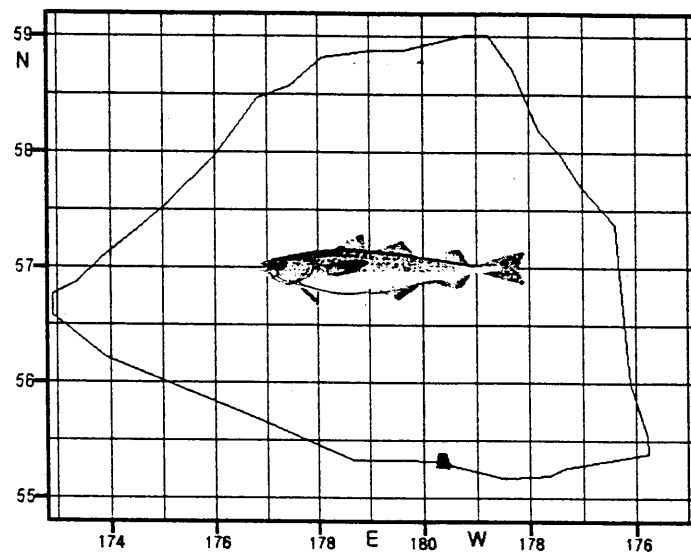


**Data Base of Pollock Fisheries by Poland  
in the Donut Hole Area of the Central Bering Sea  
during 1985 - 1991**



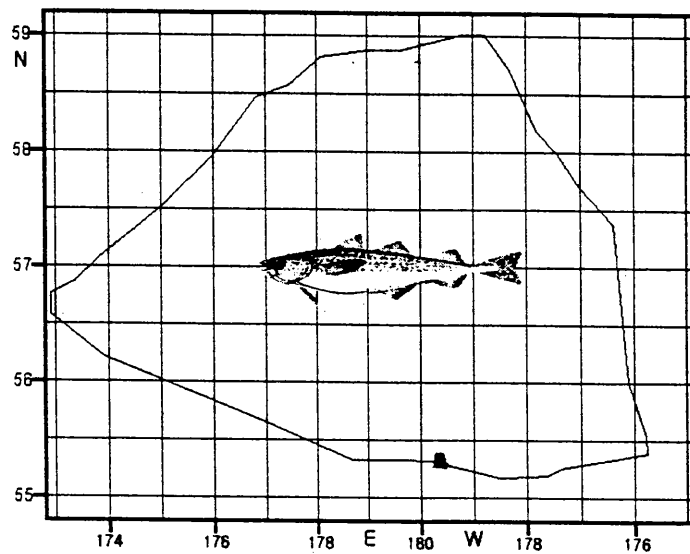
**Prepared by**

**Jerzy Janusz  
Sea Fisheries Institute  
Gdynia, Poland**

**December 2001**



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during 1985 - 1991**



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**Jerzy Janusz  
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"The Data Rescue of Polish and Korean Pollock Fisheries  
from International Area of the Central Bering Sea"

## Table of Contents

Tab/Item	Page No
<b>Tab 1. Description of work</b> .....	3
<b>Tab 2. Polish catches of pollock in Donut Hole area of the Central Bering Sea during 1985 - 1991</b> .....	8
Table 1. Polish catches of pollock (in metric tons), effort and CPUE data in Donut hole area of the central Bering Sea during 1985 - 1991 .....	9
Figure 1. Polish catches of pollock (in thousand tons) and CPUE (tons/day) in Donut hole area of the central Bering Sea for years 1985 through 1991 .....	10
<b>Tab 3. Catches of pollock by big statistical blocks (0.5° latitude by 1° longitude) ....</b>	11
Tables 2 - 8. Polish catches (in metric tons) of pollock in Donut hole area of the Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months of 1985 - 1991 .....	12
Figures 2 - 8. Polish catches (in metric tons) of pollock in Donut hole area of the Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months of 1985 - 1991 .....	19
Attachment 1. Map of the central Bering Sea showing big statistical blocks (0.5° latitude by 1° longitude) .....	33
Attachment 2. Geographical positions (lower left corner of the block: 0.5° latitude by 1° longitude) of big statistical blocks used for Polish pollock catch data from the central Bering Sea .....	34
<b>Tab 4. Catches of pollock by small statistical blocks (10' latitude by 30' longitude)</b>	
Tables 9 -15. Polish catches (in metric tons) of pollock in Donut hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months of 1985 - 1991 .....	37
Figures 9 - 15. Polish catches (in metric tons) of pollock in Donut hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months of 1985 - 1991 .....	44

Attachment 3. Map of the central Bering Sea showing small statistical blocks (10' latitude by 30' longitude) .....	84
Attachment 4. Geographical positions (lower left corner of blocks: 10' latitude by 30' longitude) of small statistical blocks used for Polish pollock catch data from the central Bering Sea .....	85
<b>Tab 5. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area during 1985 - 1991 .....</b>	<b>88</b>
Tables 16 - 22 Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area during 1985 -1991 (raw data) .....	89
<b>Tab 6. Data base of Polish catches of pollock in Donut hole area by big statistical blocks and geographical position during 1985-1991 .....</b>	<b>96</b>
Table 23. Data base of Polish catches (in metric tons) of pollock in Donut hole area of the central Bering Sea by big statistical blocks and geographical position by months during 1985-1991 .....	97
<b>Tab 7. Data base of Polish catches of pollock in Donut hole area by small statistical blocks and geographical positions during 1985-1991 .....</b>	<b>115</b>
Table 24. Data base of Polish catches (in metric tons) of pollock in Donut hole area of the central Bering Sea by small statistical blocks and geographical position by months during 1985-1991 .....	116
<b>Tab 8. Inventory of data on biological characteristics of pollock .....</b>	<b>159</b>
Table A. List of biological and fishing data collected during Polish catches of pollock in Donut hole area of the central Bering Sea during 1985-1991 .....	160
Table B. Length distribution (F.L.) of pollock in Polish catches in 1985 .....	161
Table C. Biological data of pollock from Polish catches in Donut hole in 1985 .....	162
Table D. Meristic and morphometric data of pollock from Polish catches in Donut hole in 1985 .....	163
Table E. Fishing data of vessels covered by scientist and technician from Sea Fisheries Institute participating in the catches of pollock in Donut hole during 1985 - 1991.....	164

**Tab 1**  
**Description of work**

The main task of the work was to construct an electronic data base of catch and fishing effort statistics of pollock fisheries that were conducted by Polish vessels in the central Bering Sea during 1985-1991.

Catch data were prepared in two ways:

- catches in big statistical blocks (0.5° latitude x 1° longitude) by months and years;
- catches in small statistical blocks (10' latitude x 30' longitude) by months and years.

Data were presented in tables for statistical blocks and additionally as a data base of Polish catches (in metric tons) of pollock in geographical position by months during 1985-1991.

On the base of raw data reported by vessels, the catch, effort and CPUE data by type of vessel in consecutive months during 1985 - 1991 were calculated and presented in the tables.

The extended work covered develop computerized plotting of Polish pollock catch data from the central Bering Sea during 1985-1991 by monthly and annual plots by big and small statistical blocks. Special program in Surfer 7 software (by Golden Software, Inc) was prepared for visual presentation of the electronic data bases of Polish catches.

The work covered also an inventory of data on biological characteristics of Pollock specimens sampled by the Sea Fisheries Institute aboard Polish fishing vessels that fished in the central Bering Sea during 1985-1992.

**2. Polish catches of pollock in Donut Hole area of the Central Bering Sea during 1985 ? 1991**

During 1985 ?- 1991 three Polish fishing long distance companies DALMOR, Odra and GRYF conducted fishing for pollock in Donut Hole area of the central Bering Sea. The fishing companies were obligated to submit their fishing data to the home companies, who in turn sends catch data to the Sea Fisheries Institute (SFI) in Gdynia. The SFI is a Polish Government fisheries research institute. The SFI prepared Polish final catch and effort data for 1985 - 1991.

The official Polish catches of pollock, effort and CPUE data in Donut hole area of the central Bering Sea for consecutive months of the years 1985 - 1991 are presented in Table 1. The data include catch (in metric tons), effort (in days and hours) and CPUE (in t/day and t/hour). Polish catches of pollock for years of 1985 - 1991 and CPUE in tons/day are presented in Figure 1.

### **3. Catches of pollock by big statistical blocks (0.5° latitude by 1° longitude)**

Data from copy of log books pages were used for preparing catch data in big statistical blocks (0.5° latitude x 1° longitude). The geographical positions of catches were verified by original log books, available from fishing companies and data collected by SFI teams aboard the fishing vessels during the cruises.

The area of the Central Bering Sea was divided into 88 big statistical blocks (0.5° latitude x 1° longitude). The map of this area with numbered big blocks is presented in Attachment 1. The geographical position of each big block is presented in Attachment 2, and the positions indicate lower left corner of the block. Geographical positions of blocks were used when the catch data were placed in big blocks of the maps by help of Surfer 7 software (by Golden Software, Inc).

Polish catches (in metric tons) of pollock in Donut hole area of the Bering Sea were prepared in big statistical blocks (0.5° latitude x 1° longitude). Catch data of vessels fishing for pollock in the same block and months were summed up and data base for years and months was constructed. Results are presented in tables 2 - 8. This data correspond to the final Polish catch data.

For visual presentation of the catches of pollock, in both big and small blocks, special program in Surfer 7 (by Golden Software, Inc) was prepared. This helped to present the distribution of Polish pollock catches in maps for every month and year of fishing.

Polish catches of pollock in Donut hole area of the Bering Sea were also submitted for the VI Annual Conference of the Parties to the Convention on the Conservation and Management of Pollock Resources in the Central Bering Sea (September 17 - 21, 2001, Gdynia, Poland).

### **4. Catches of pollock by small statistical blocks (10' latitude by 30' longitude)**

The fishing vessels daily reported their catch data, effort (in number of hauls) and mean fishing geographic position of catch. These data were reported via radio to the fishing companies and then relayed to the SFI. Data were used for preparing catch data by small blocks (10' latitude x 30' longitude). This raw data consist of daily catches and mean geographical position of the vessel fishing for pollock. Data were split together in SFI by small statistical blocks which presented mean geographical positions of the catches taken by vessels.

The area of the Central Bering Sea was divided into 504 small blocks (10' latitude by 30' longitude). The map of this area with numbered small blocks is presented in Attachment 3. The geographical position of each small block is presented in Attachment 4 and indicates lower left corner of the block. Geographical positions of blocks were used when the catch data were placed in small blocks of the maps by help of Surfer 7 software.

Raw catch data usually were slightly less than the catch data from log books. Comparison of the final Polish catch data, by months, and catch data retrieved from daily catch reports (raw data by small blocks) indicates only 4.4% discrepancy between them for the whole period of catches (7 years). Therefore it was decided to interpolate raw catch data into final catches in small blocks. It means that raw catch data in small blocks were distributed proportionally to equal final data in big blocks. Every big block consist of 6 small blocks.



Catch data of vessels fishing for pollock in the same block and months were summed up and data base for years and months was constructed. The results are presented in tables 9 - 15. This data correspond to the final Polish catch data.

### **5. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area during 1985 - 1991**

During fishing for pollock in the central Bering Sea, the fishing vessels reported daily to their home companies their fishing data: catch, effort (in number of hauls) and mean fishing geographic position.

On the base of these raw data, the catch, effort and CPUE data by type of vessel in consecutive months and years during 1985 - 1991 were calculated. These data are presented in Tables 16 - 22. This data represent raw data and were not interpolated to the final catch data.

Characteristic of Polish vessels fishing for pollock in Donut hole area during 1985-1991 was as follows:

Vessel type	Tonnage BRT	Engine HP
B-15	2305	2400
B-18	2496	2250
B-22	2690	2500
B-89	2599	3600
B-407	3723	5200
B-408	3862	4350
B-414	2584	3600
B-417	2373	3600
B-418	2498	2700
B-419	2690	2500
B-673	3700	3680

### **6. Data base of Polish catches of pollock in Donut hole area by big statistical blocks and geographical position during 1985-1991.**

Data base of Polish catches (in metric tons) of pollock was constructed for the all period of Polish fishing activity in Donut hole area for big statistical blocks and geographical position (lower left corner of a block).

The data base is presented in Table 23.

## **7. Data base of Polish catches of pollock in Donut hole area by small statistical blocks and geographical positions during 1985-1991**

Data base of Polish catches (in metric tons) of pollock was constructed for the all period of Polish fishing activity in Donut hole area for small statistical blocks and geographical position (lower left corner of a block).

The data base is presented in Table 24.

## **8. Inventory of data on biological characteristics of pollock**

Extended work covered also an inventory of data on biological characteristics of pollock specimens sampled by the Sea Fisheries Institute aboard Polish fishing vessels that fished in the central Bering Sea during 1985-1991.

The list of biological and fishing data collected during Polish catches of pollock in Donut hole area during 1985-1991 is presented in Table A. The number of data can be slightly changed.

For the presentation, how the data can be prepared in electronic form, first pages of available data are presented as an example for 1985 in the Tables B, C, D and E. The another suggested presentation of data can be possible.

Table B. The length frequency (fork length) of pollock measured during sampling (by months). For some period the length frequency of pollock from single samples can be available.

Table C. Biological data of pollock from the samples which include date, position, depth of trawl where samples were taken, length, weight, sex, maturity of gonads, fullness of stomach of individual pollock. Additionally the age of pollock was determinate (not for all specimens).

Table D. Meristic and morphometric data of pollock taken from the samples concern each investigated specimen and included:

T.L. - Total length (cm)	DI - No. of rays in 1st. dorsal fin
F.L. - Fork length (cm)	DII - No. of rays in 2nd. dorsal fin
Weight - Weight of fish (g)	DIII - No. of rays in 3rd. dorsal fin
Mat. - Gonads maturity (Maier scale)	P - No. of rays in pectoral fin
Stom. - Fullness of stomach	AI - No. of rays in 1st. anal fin
S.L. - Standard length (cm)	AII - No. of rays in 2nd. anal fin
HDL - Head length (cm)	G.R. - No. of gill rakers on the 1st gill arch
	VER. - No. of vertebrae (including urostyle)

Data included also all fishing data as in Table C.

Additional data are available:

Age

L.OT. - Otolith length (mm)

H.OT. Otolith height (mm)

W.OT. Weight of otolith (g)

Table E. Fishing data concerning the catch and effort, as well as, position of hauls (retrieving the net), depth of trawl, duration of haul, air and water temperature (temp. at depth - where available) were collected by scientist and technician from Sea Fisheries Institute participating in the catches of pollock in Donut hole and are presented in Table E.



**Tab 2**

**Polish catches of Pollock in Donut Hole area  
of the Central Bering Sea during 1985-1991**



	catch (ths. tons)	effort (days)
1985	116	2125
1986	163	3422
1987	230	4905
1988	299	6822
1989	269	6258
1990	223	7566
1991	55	3051

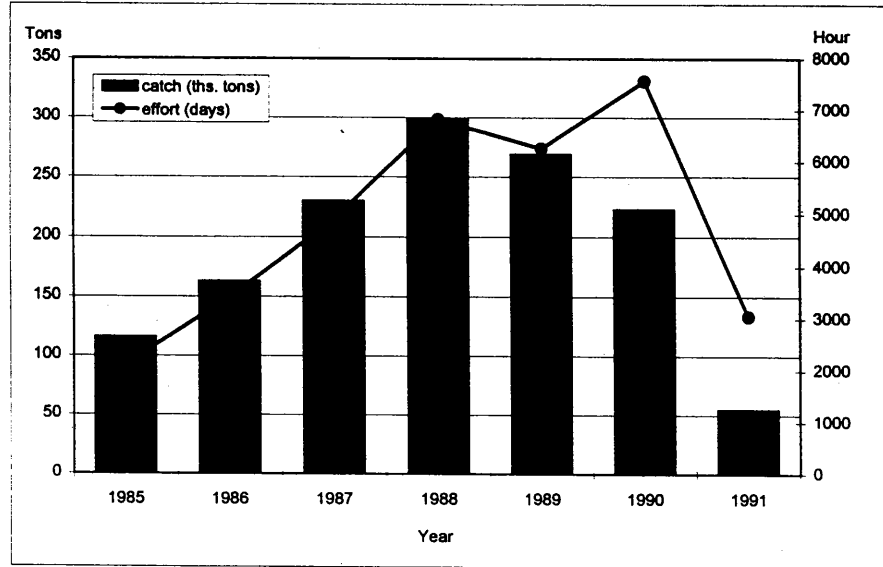


Figure 1. Polish catches of pollock (in thousand tons) and effort (in fishing days) in Donut hole area of the central Bering Sea for years 1985 through 1991





**Tab 3**

**Monthly Plots of Pollock Catches**

**by Big Statistical Blocks  
(1 ° Longitude x 1/2 ° Latitude)**

**by Poland  
in the Donut Hole Area of the Central Bering Sea  
during 1985 - 1991**

Table 2. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1985

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 85	52	24	February 85	52	77	March 85	7	70	April 85	18	1267	May 85	5	712	June 85	6	196
	61	85		73	1053		32	58		19	283		8	3203		26	592
	63	76		74	3773		64	268		29	2268		16	3296		27	337
	73	247		75	7561		75	2660		30	2495		20	849		37	2045
	74	1836		76	3829		76	4742		40	1535		26	4557		47	2282
	75	676		84	307		77	24		41	679		27	6485		48	902
	76	88		85	77		86	1350		43	60		29	2260		49	327
	85	283		86	277		87	859		51	305		30	1798		50	171
	86	92								52	771		31	453		51	743
										53	1226		40	5091		53	347
						64	1325	41	2151	54	18						
						65	876			58	339						
						75	643			59	4423						
						76	3695			60	1748						
						85	129			61	892						
						86	486			62	1921						
						87	280			73	878						
						88	133										
Total		3407	Total		16954	Total		10031	Total		18456	Total		30855	Total		18161

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch			
July 85	59	94	August 85			September 85			October 85			November 85			December 85	52	1487			
																			54	357
																			61	154
																			62	51
																			63	2937
																			64	6876
																			71	48
																			73	514
																			74	359
																			75	4407
													76	384						
													86	342						
Total		94	Total		0	Total		0	Total		0	Total		0	Total		17916			

Table 3. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1986

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 86	51	191	February 86	65	251	March 86	41	1145	April 86	14	779	May 86	14	4612	June 86	34	105
	52	5527		73	5333		42	323		15	277		15	5437		37	501
	62	1847		74	3201		43	654		24	1718		16	68		45	619
	63	574		75	4410		52	653		25	1707		24	1087		47	653
	72	2739		76	6539		53	2607		26	8350		25	1972		48	308
	73	14431		84	180		54	8370		27	402		26	48		49	492
	74	4489		85	1010		64	1130		37	933		35	3177		57	987
	84	2492		86	245		65	1130		40	1917		36	148		59	33
						76	2109	49	482	37	72	60	597				
						77	760	50	1191	39	30	70	67				
						87	56	51	6233	45	188	71	134				
								52	2655	63	2	74	161				
										71	469	75	10				
										72	143	83	23				
										74	66	84	183				
										82	154	85	66				
										83	179						
<b>Total</b>		<b>32290</b>	<b>Total</b>		<b>21169</b>	<b>Total</b>		<b>18937</b>	<b>Total</b>		<b>26644</b>	<b>Total</b>		<b>17852</b>	<b>Total</b>		<b>4939</b>

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
July 86	48	44	August 86	60	6	September 86			October 86	37	185	November 86	30	1342	December 86	39	424
	49	28						47		240	38		835	49		1698	
	59	120						48		348	41		71	50		3138	
	60	112						49		738	48		773	51		785	
	70	35						50		232	49		1760	59		1497	
								59	87	60	4733						
								60	371	51	307	61	1962				
										52	2785	70	46				
										53	113	71	5221				
										59	854	72	2688				
										60	894	73	928				
										61	43	74	105				
										71	1264	82	328				
										72	1593	83	1349				
												84	268				
												85	188				
<b>Total</b>		<b>339</b>	<b>Total</b>		<b>6</b>	<b>Total</b>		<b>0</b>	<b>Total</b>		<b>2201</b>	<b>Total</b>		<b>13514</b>	<b>Total</b>		<b>25358</b>

Table 4. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1987

Month	Square	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 87	59	265	February 87	60	6176	March 87	42	208	April 87	60	128	May 87	35	57	June 87	46	180
	60	14810		61	3513		43	138		61	483		36	120		47	1083
	61	3279		63	21		52	17		70	1318		38	717		48	2157
	71	20483		71	14275		53	891		71	3656		45	431		49	4890
	72	984		72	6539		54	1122		72	1222		46	3426		58	880
	82	838		73	145		60	103		73	2627		47	2213		59	7874
	83	377		74	70		64	857		74	1765		48	817		60	5124
	86	34		82	1267		65	1915		75	832		49	232		61	193
	87	37		83	140		71	2618		82	2025		50	3567		70	131
							72	348		83	10484		51	438		71	2000
							75	3959		84	5207		57	4127			
							76	1426		85	1416		58	2642			
							82	113		86	129		59	443			
													60	1633			
													61	1284			
													62	1377			
													72	2442			
													73	793			
													74	72			
													83	2999			
													84	508			
Total		41107	Total		32146	Total		13715	Total		31292	Total		30338	Total		24512

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
July 87	46	102	August 87			September 87			October 87			November 87	37	3114	December 87	35	1709
	47	416											47	116		36	284
	48	832											48	492		37	689
	49	1539											49	217		38	52
	59	2672											58	226		39	2455
	60	2203											59	1812		40	1823
	61	45											60	1474		46	311
	69	3858											69	983		47	168
	70	1377											70	4908		48	1765
	71	3113														49	1504
																50	2084
																57	1022
																58	34
																59	1496
																60	570
																61	1470
																62	226
																65	47
																68	360
																69	4835
																70	47
																71	1131
																72	435
																73	156
																74	2079
																77	222
																83	735
Total		16157	Total		0	Total		0	Total		0	Total		13342	Total		27709

Table 5. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1988

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch					
January 88	42	339	February 88	18	36	March 88	7	2	April 88	30	1831	May 88	4	467	June 88	7	11737					
	51	521			19		12			17	67			41		6341		15	278		8	4859
	52	4142			29		12			18	54			42		2849		16	507		18	1015
	53	4254			30		216			19	18			52		1806		18	268		19	9867
	57	1114			31		21			28	1			53		667		19	247		28	13
	58	78			41		281			29	112			54		973		26	79		29	193
	61	307			42		44			30	96			64		614		27	393		30	379
	62	3755			52		36			40	30			74		1021		30	128		31	1551
	63	625			63		3204			41	17			75		6771		38	468		41	2333
	64	81			64		369			54	18			76		16533		40	613		42	4471
	65	2400			65		65			64	843			85		1610		41	49		50	37
	68	118			72		2			65	5286			86		7839		48	90		53	620
	69	20			73		1373			76	2751			87		823		49	425		54	488
	70	534			74		1496			84	14							50	43		59	39
	71	51			75		180											51	1922		61	36
	72	5862			76		340											52	3115		70	37
	73	1725			82		6											54	129		84	46
	74	3812			83		12											58	94		86	70
	76	2185			85		755											61	1462			
	84	4292			86		216											62	3620			
	85	2623											63	110								
	87	2106											64	389								
													71	177								
													73	33								
													76	71								
<b>Total</b>		<b>40944</b>	<b>Total</b>		<b>8676</b>	<b>Total</b>		<b>9309</b>	<b>Total</b>		<b>49678</b>	<b>Total</b>		<b>15177</b>	<b>Total</b>		<b>37791</b>					

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch					
July 88	40	293	August 88	6	247	September 88	35	209	October 88	48	1594	November 88	24	2470	December 88	25	3801					
	41	468			46		190			46	153			49		916		25	106		26	623
	42	2378			47		227			47	121			50		82		34	3445		31	470
	50	15			50		415			48	564			51		1813		35	9307		36	16213
	53	2476			51		65			49	126			52		59		36	1239		37	5139
	54	1719			57		829			52	1103			58		953		40	111		43	490
	57	1090			58		1845			53	261			59		387		46	1382		45	445
	61	44			59		620			57	472			60		108		48	2289		47	1071
	62	578			60		195			58	98			61		1012		49	905		48	635
	65	2451			61		195			60	153			62		67		50	589		53	994
	70	595			62		2720			61	101			72		423		51	349		57	712
	72	343			63		120			63	515							57	102		60	5524
	74	122			65		1168			64	205							58	114		61	2398
	75	3304			68		140			69	267							59	1892		63	2411
	76	6675			69		2968			70	733							60	1160		65	1102
	85	4016			70		940			74	555							61	716		70	819
	86	932			71		992			75	203							62	112		71	1691
	87	1337			72		2373											69	400		72	940
					73		2128											70	1295		82	799
					74		617											71	1135			
				76	177								72	224								
				82	260																	
<b>Total</b>		<b>28836</b>	<b>Total</b>		<b>19431</b>	<b>Total</b>		<b>5839</b>	<b>Total</b>		<b>7414</b>	<b>Total</b>		<b>29342</b>	<b>Total</b>		<b>46277</b>					

Table 6. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1989

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch					
January 89	46	364	February 89	51	101	March 89	65	567	April 89	6	151	May 89	18	991	June 89	19	165					
	57	1244			63		2			75	1279			7		1740		19	572		30	2097
	59	1055			65		1946			76	609			8		1657		30	666		31	18310
	60	5309			75		2			77	117			18		1342		31	17688		41	864
	61	342			76		1829			86	3938			19		1038		41	6793		42	4749
	63	1413			87		287			87	978			28		774		42	4718		43	844
	64	2546												29		4080		43	2835		52	1273
	65	166												30		550		53	4141		53	1635
	70	6842												31		1012		54	1551		54	102
	71	4131												40		460					64	557
	72	974												41		1628					65	157
	73	265												42		1523					73	872
	74	1072												43		1900					74	995
	75	178												53		54					75	229
	76	94												54		6375						
	77	26												65		595						
	84	3120												75		2428						
	85	162												76		479						
	86	89												85		188						
										86	4599											
										87	104											
<b>Total</b>		<b>29392</b>	<b>Total</b>		<b>4167</b>	<b>Total</b>		<b>7488</b>	<b>Total</b>		<b>32677</b>	<b>Total</b>		<b>39955</b>	<b>Total</b>		<b>32849</b>					
July 89	8	3874	August 89	31	438	September 89	4	434	October 89	4	922	November 89	5	54	December 89	18	9					
	19	3632			40		372			8	323			8		332		13	3206		38	3281
	51	159			41		281			15	92			14		2214		14	1521		39	1451
	52	154			50		675			16	52			15		1311		24	476		45	1137
	53	1148			51		1788			19	243			20		641		25	1901		46	434
	54	1397			52		1149			25	186			24		1438		35	683		48	1522
	63	73			53		800			26	320			25		1098		37	266		49	19089
	64	2616			54		1032			27	564			26		2675		45	3660		50	1280
	65	5698			62		433			28	387			27		18		46	76		51	3100
	72	505			63		76			30	155			35		1026		47	393		56	1257
	73	113			64		413			36	207			36		483		48	1508		58	555
	76	2837			65		478			37	525			37		3064		49	1560		59	210
	77	301			73		612			38	96			38		169		52	105		60	1215
	83	86			74		1590			39	591			48		96		53	379		61	311
	84	637			75		231			40	140			49		285		56	283			
	87	198			76		2096			48	564			58		489		57	1414			
										49	847			61		27		58	4355			
										50	888			65		130		59	3295			
										52	141							64	368			
							58	106					65	313								
							59	36					69	297								
							60	529														
							61	1034														
							63	267														
							71	41														
<b>Total</b>		<b>23428</b>	<b>Total</b>		<b>12464</b>	<b>Total</b>		<b>8768</b>	<b>Total</b>		<b>16418</b>	<b>Total</b>		<b>26113</b>	<b>Total</b>		<b>34851</b>					

Table 7. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1990

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 90	43	34	February 90	29	1	March 90	52	2	April 90	42	964	May 90	6	155	June 90	29	54
	48	1230		52	120		64	37		43	12648		7	1921		39	1570
	49	8414		53	681		65	721		54	8511		8	424		40	5609
	50	328		63	20		76	1981		63	174		17	247		41	648
	51	19		64	388		77	195		64	26		18	107		42	6230
	53	130		65	1					65	1095		19	393		43	10297
	54	148		75	15					73	431		20	58		50	94
	59	293		76	25					74	4225		27	48		51	1791
	60	620								75	1987		28	351		52	2013
	62	2								76	6933		29	713		53	3209
	63	407								85	3187		30	136		54	6353
	64	628								86	574		31	13		62	350
	65	172								87	772		37	102		63	45
	73	35								88	508		39	844		64	636
	74	430											40	273		65	67
	75	162											43	3648		74	145
	76	92											48	479			
													49	24			
													51	19			
													59	9			
													60	10			
													62	9			
													63	29			
													65	55			
													70	14			
													73	10			
													74	919			
													75	351			
													83	8			
													84	387			
													85	9219			
													87	55			
Total		13144	Total		1251	Total		2936	Total		42035	Total		21030	Total		39111

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
July 90	42	1758	August 90	40	202	September 90	5	3622	October 90	5	2451	November 90	4	1230	December 90	5	215
	43	1154		42	191		6	5902		8	1561		5	431		6	1434
	49	891		43	2567		7	109		14	3376		15	933		7	3703
	50	36		50	1747		8	157		16	2872		16	611		8	1211
	51	245		51	535		16	897		17	600		17	102		17	266
	52	191		54	2541		17	932		24	803		18	156		18	193
	53	1722		59	531		26	119		25	957		27	1200		28	5
	54	145		61	5355		28	2302		27	1040		28	851		61	85
	61	577		62	2222		39	115		28	822		35	16			
	62	121		63	2198		40	196		31	407		37	56			
	63	745		64	189		50	235		35	1645		38	932			
	64	113		65	198		61	1463		36	637		39	2404			
	71	221		70	783		62	473		38	1659		43	288			
	72	3058		71	299		74	661		39	1032		48	401			
	73	1366		72	876					43	387		49	718			
	74	190		73	885					45	235		50	152			
	75	219		74	3285					46	1320		51	32			
	76	989		75	448					47	312		53	930			
										54	2740		56	1972			
										72	121		58	180			
													59	31			
													61	156			
													65	9			
													72	753			
													73	967			
													77	371			
Total		13741	Total		25052	Total		17183	Total		24977	Total		15862	Total		7112

Table 8. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (0.5° latitude x 1° longitude) by months in 1991

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch				
January 91	5	22	February 91	30	26	March 91	31	7	April 91	32	683	May 91	7	1074	June 91	8	270				
	6	19						75		30			43	5172			8	2345		19	587
	7	924						76		121			54	4669			18	386		20	392
	8	85											65	3695			30	727		28	1519
	20	439											73	166			43	3090		30	311
	48	5											76	3295			53	453		31	600
	74	4											77	379			54	230		32	187
	75	32															65	357		37	57
																	70	242		38	373
																	75	515		39	435
											76	337		42	1457						
														43	1201						
														47	659						
														52	169						
														53	464						
														54	456						
														58	893						
														74	227						
Total		1530	Total		26	Total		158	Total		18059	Total		9756	Total		10257				

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch					
July 91	19	217	August 91	19	146	September 91	15	100	October 91			November 91	41	7	December 91							
	20	455			20		90			38	6											
	31	1205			31		2620															
	41	530			32		285															
	42	1221			40		18															
	43	174			53		557															
	52	378																				
	64	368																				
	75	4645																				
76	2058																					
Total		11251	Total		3716	Total		106	Total		0	Total		7	Total		0					



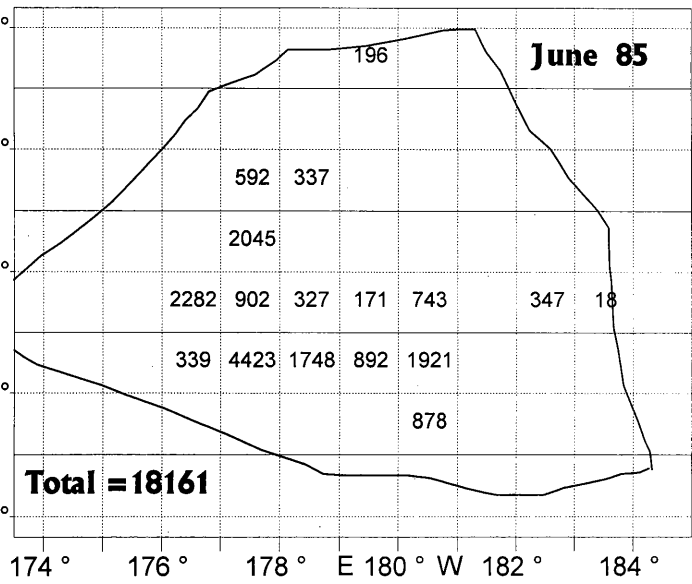
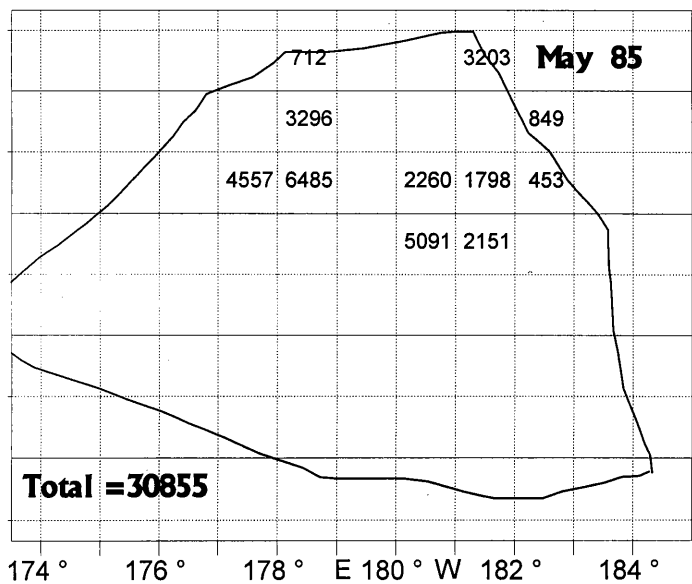
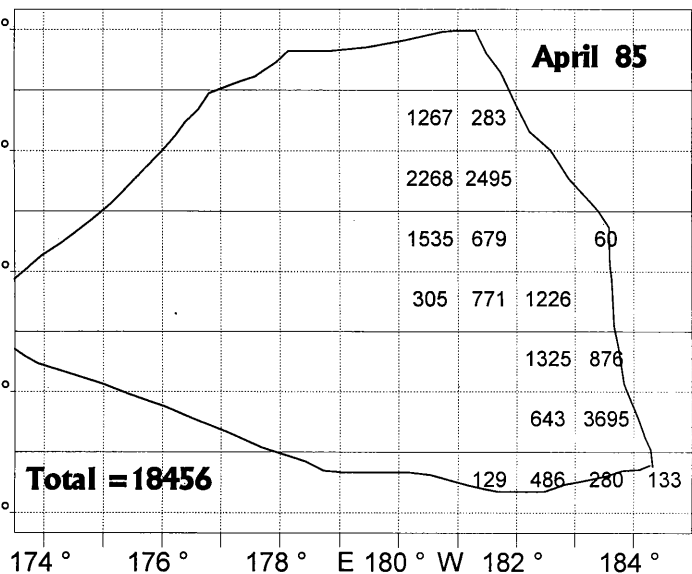
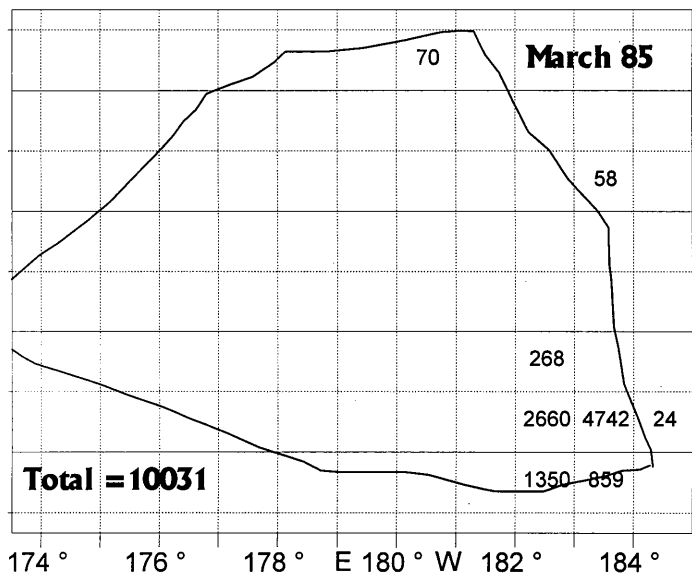
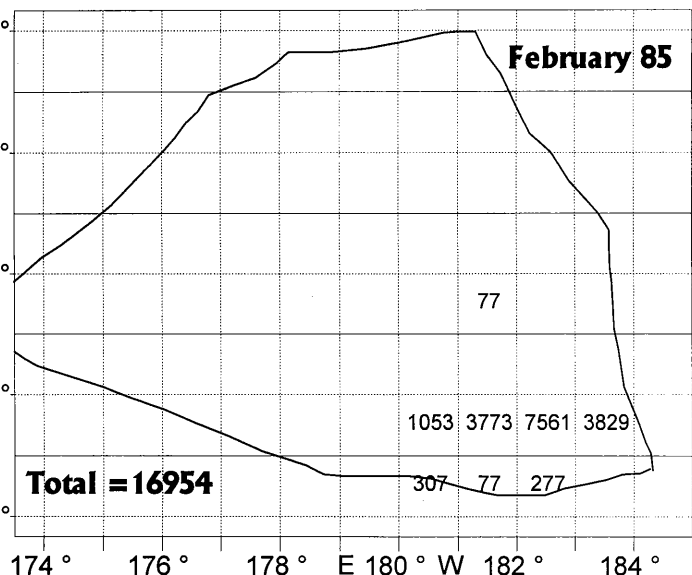
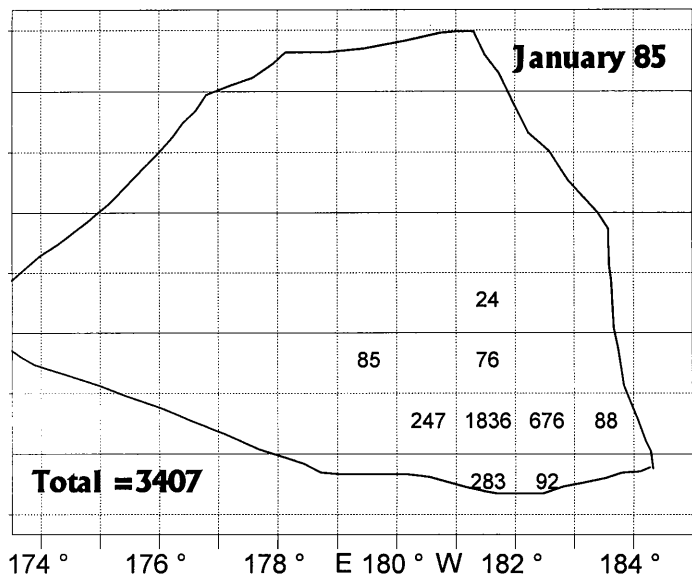


Fig. 2. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1985

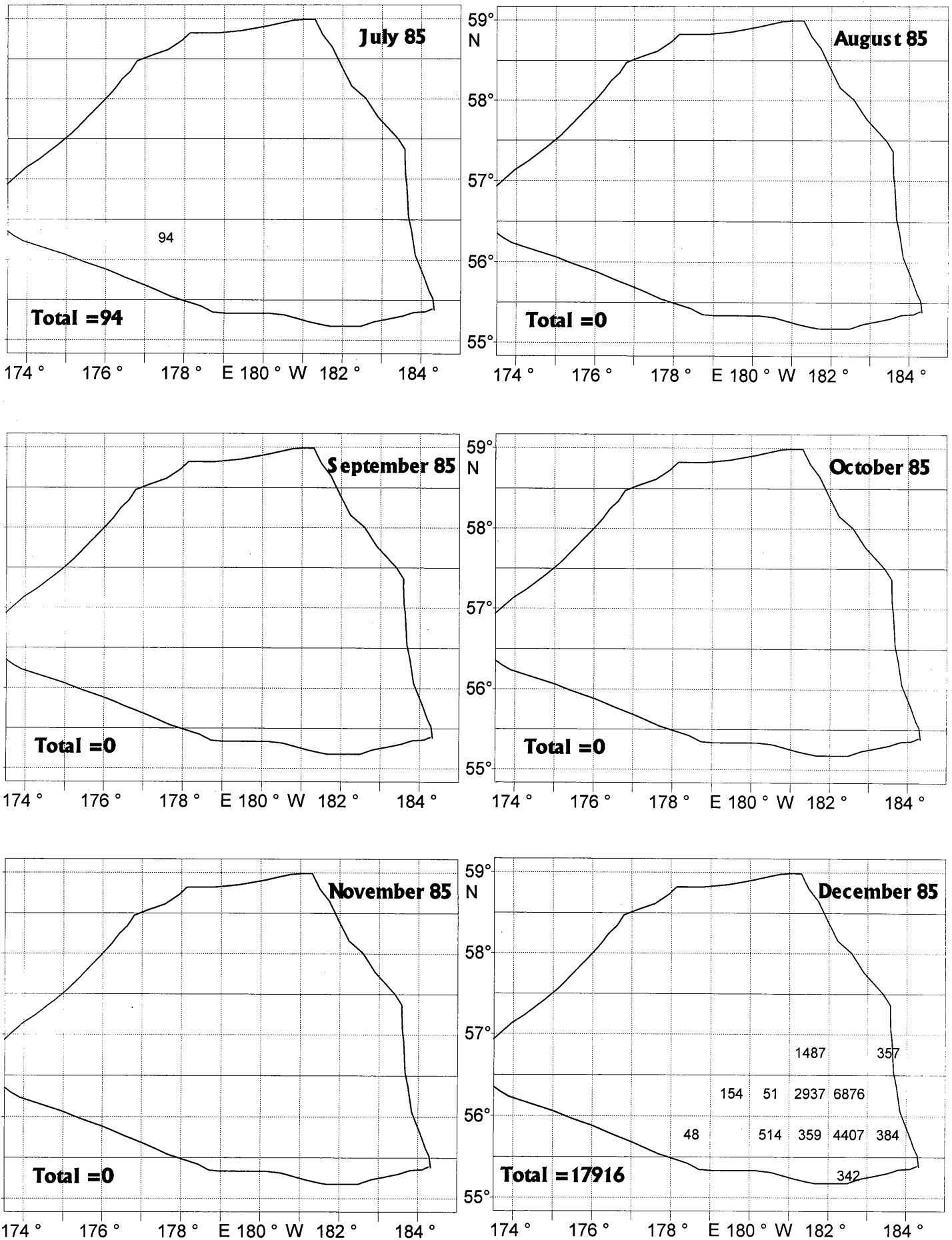


Fig. 2 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1985

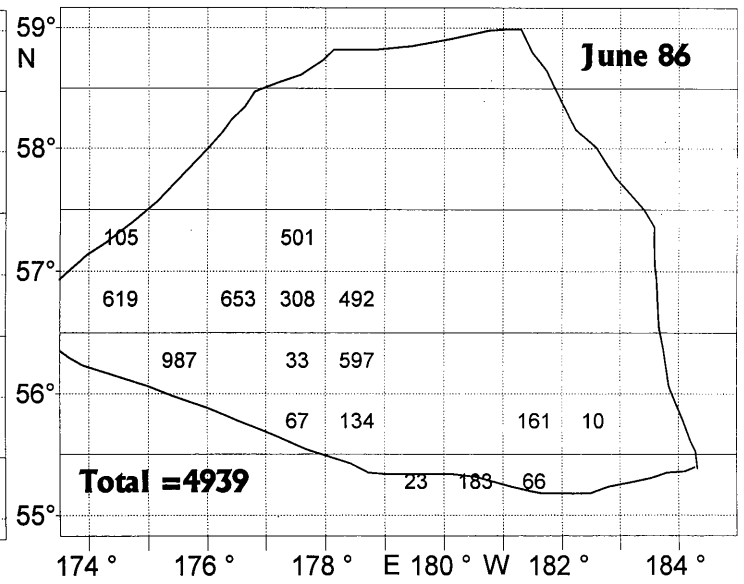
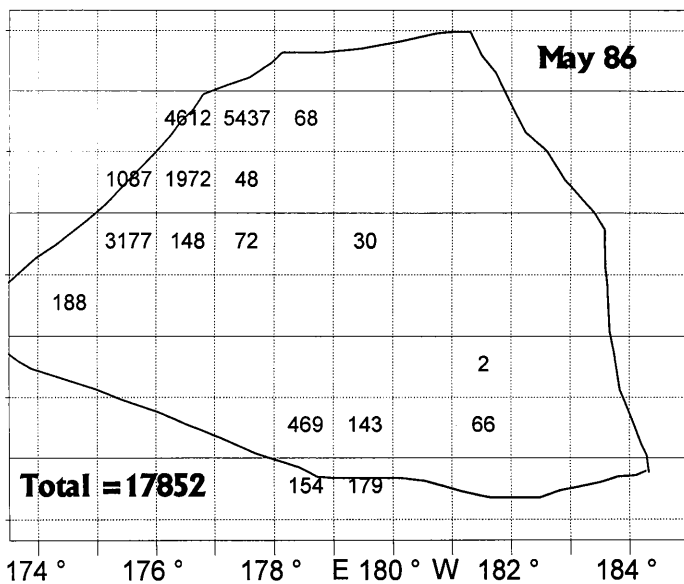
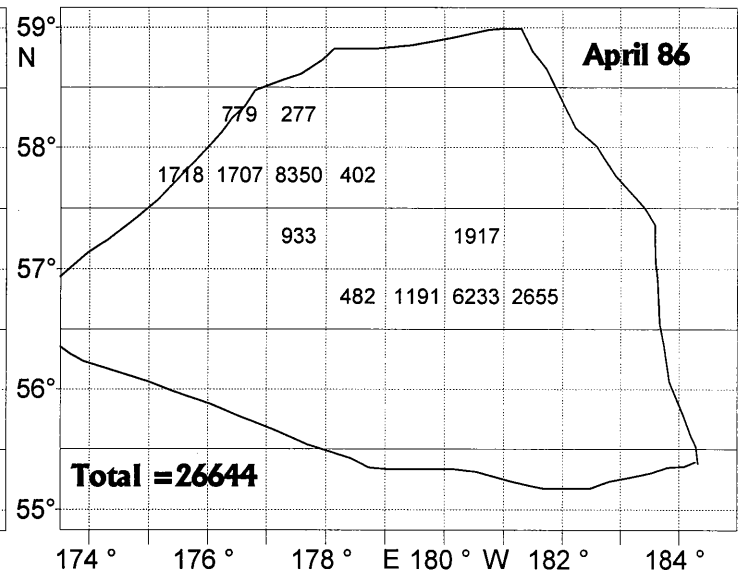
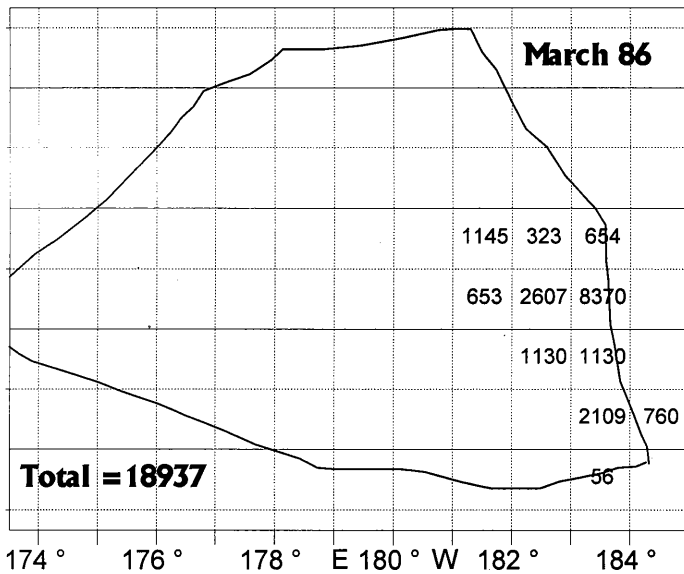
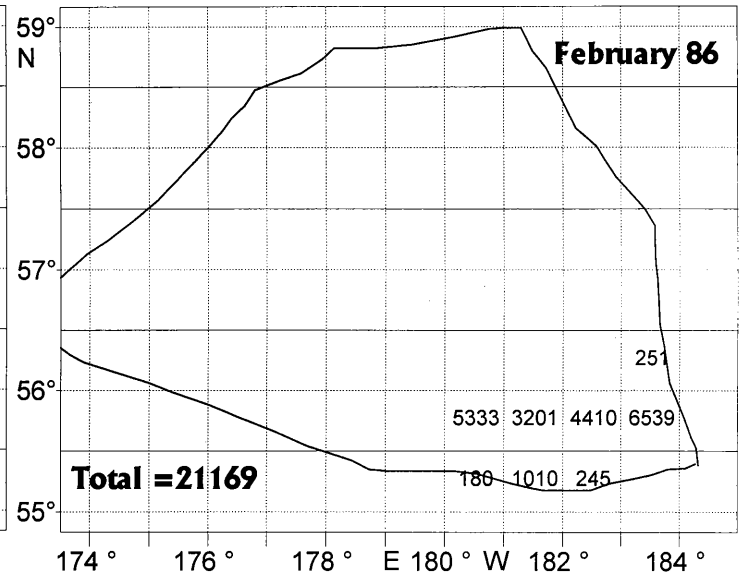
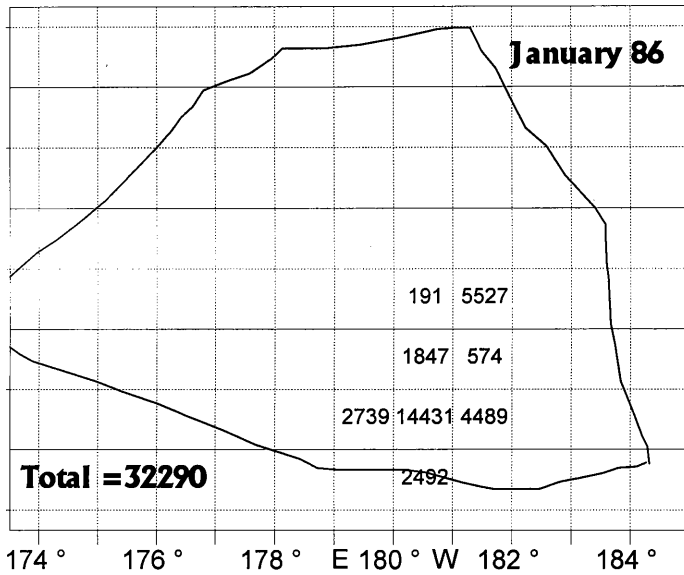


Fig. 3. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1986

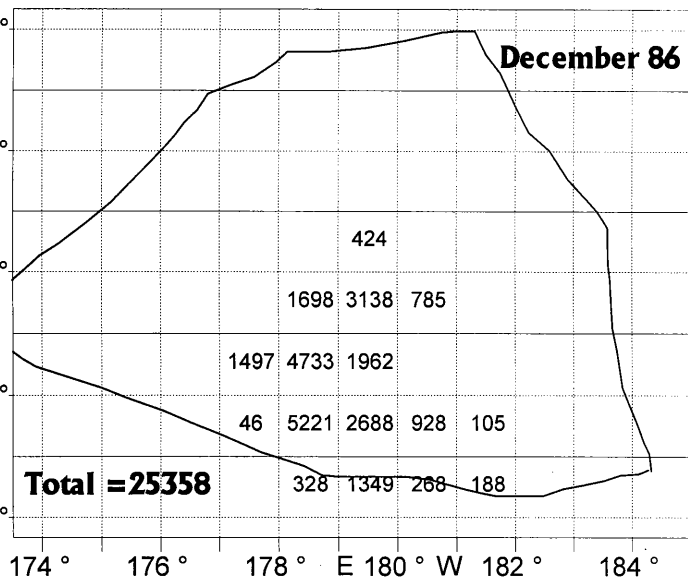
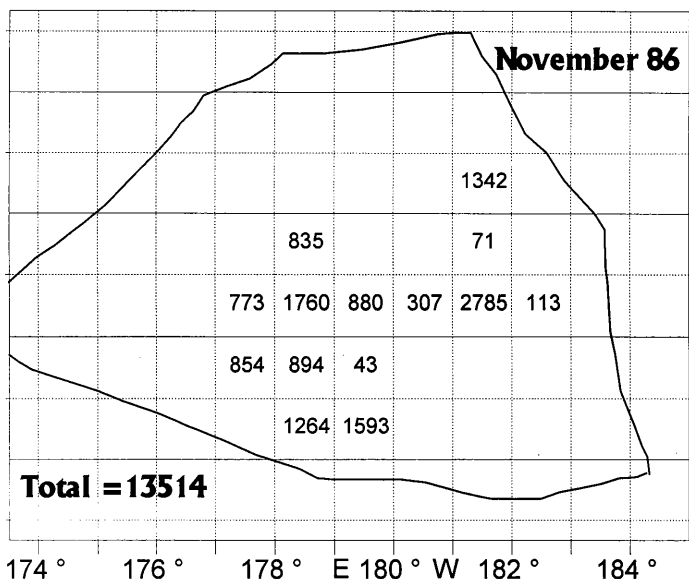
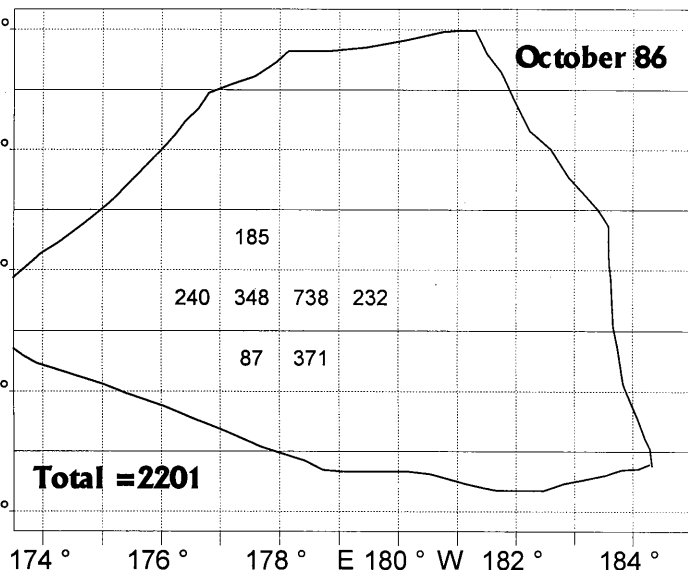
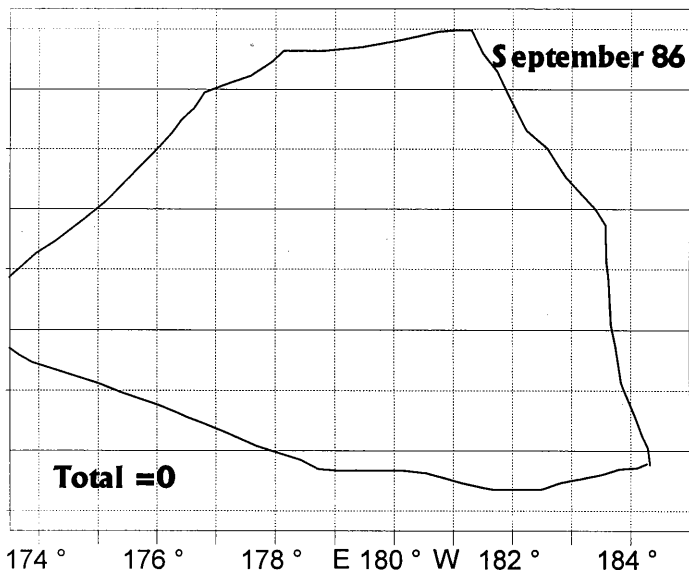
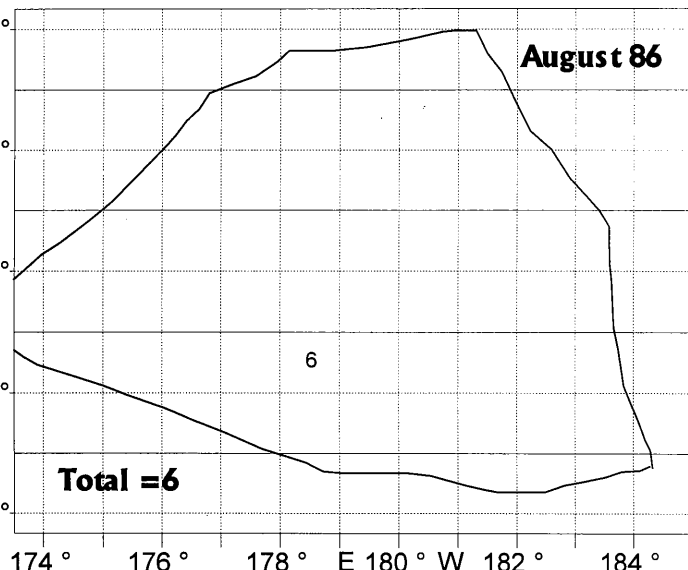
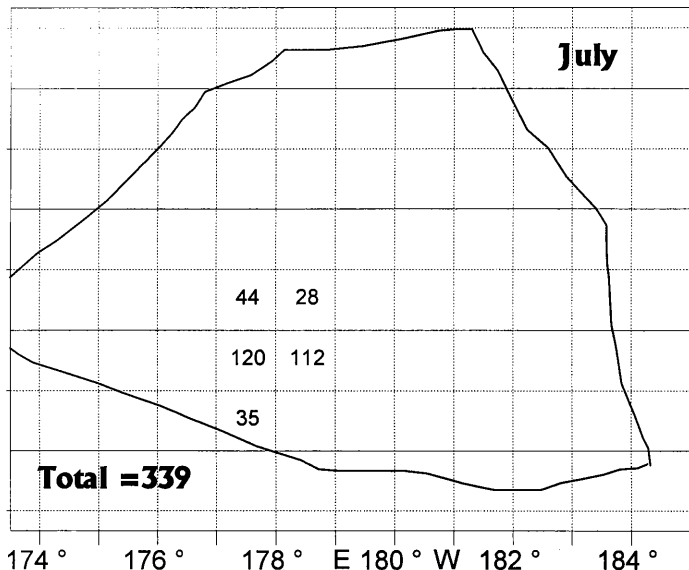


Fig. 3 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1986

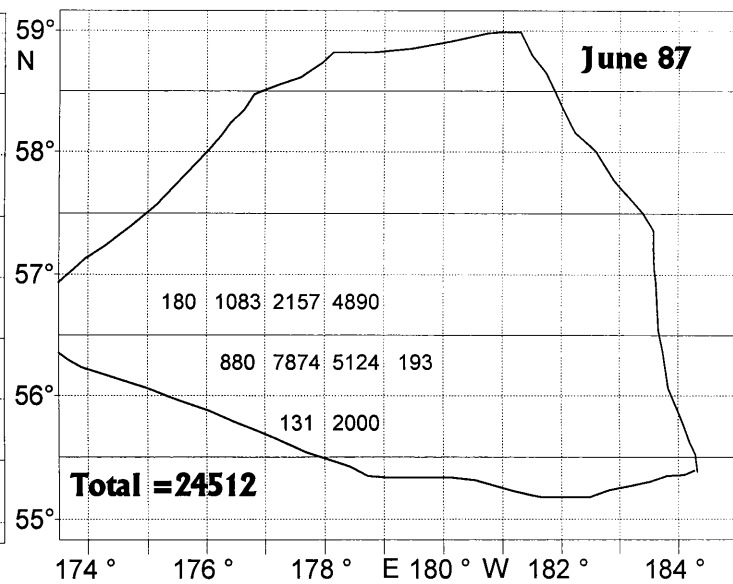
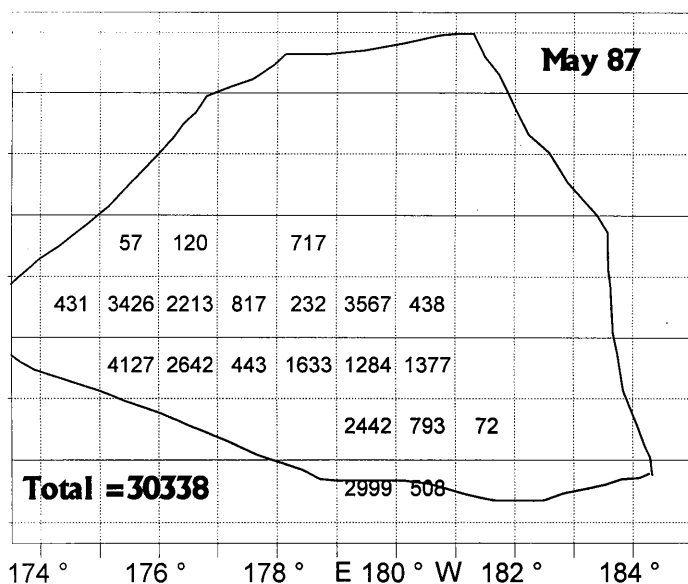
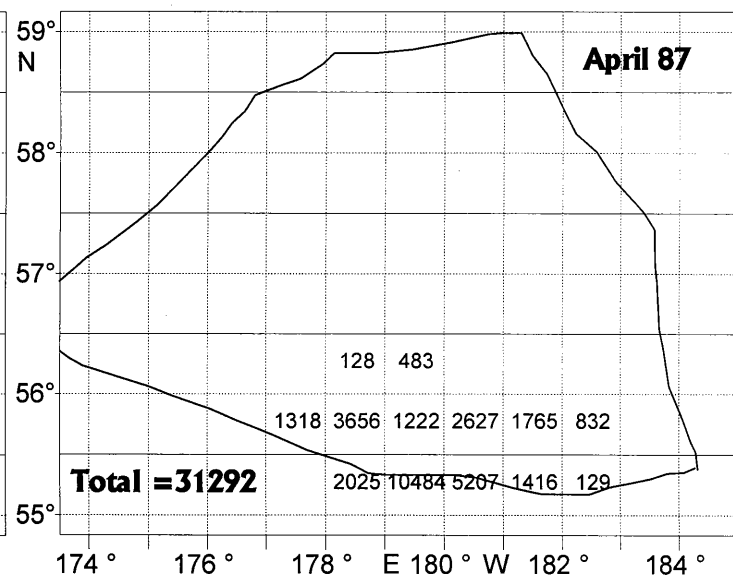
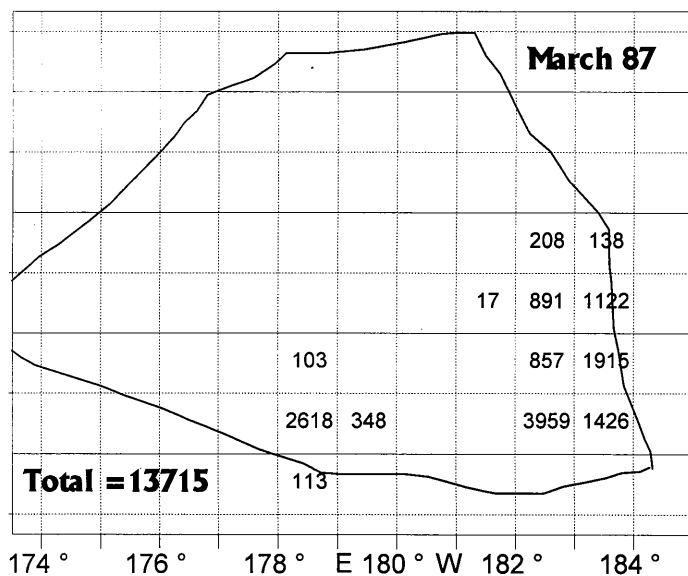
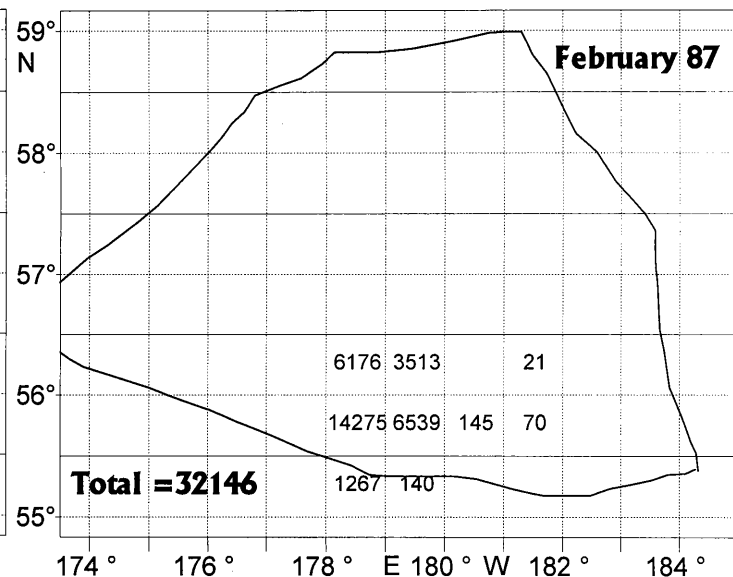
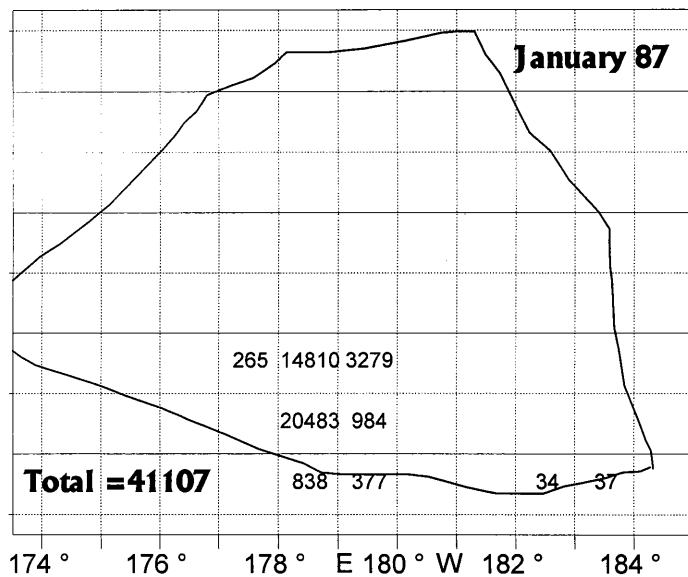


Fig. 4. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1987

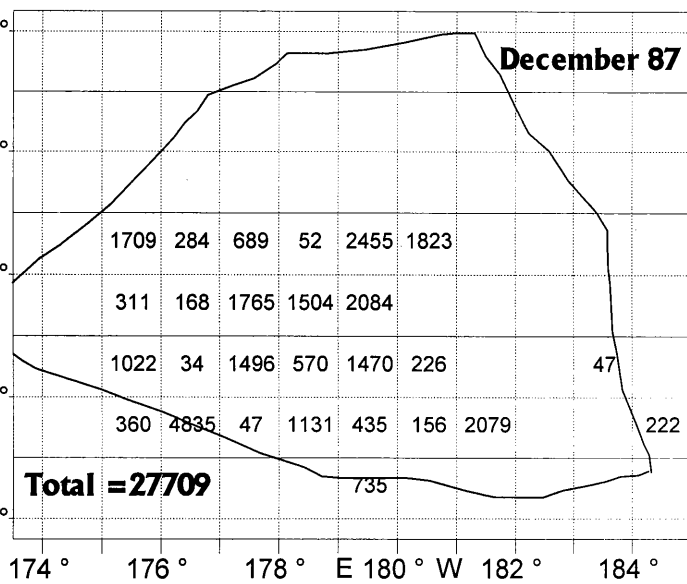
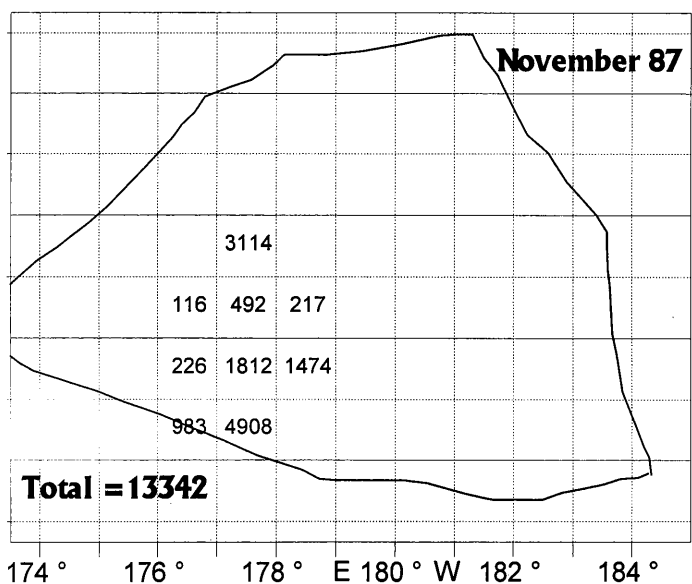
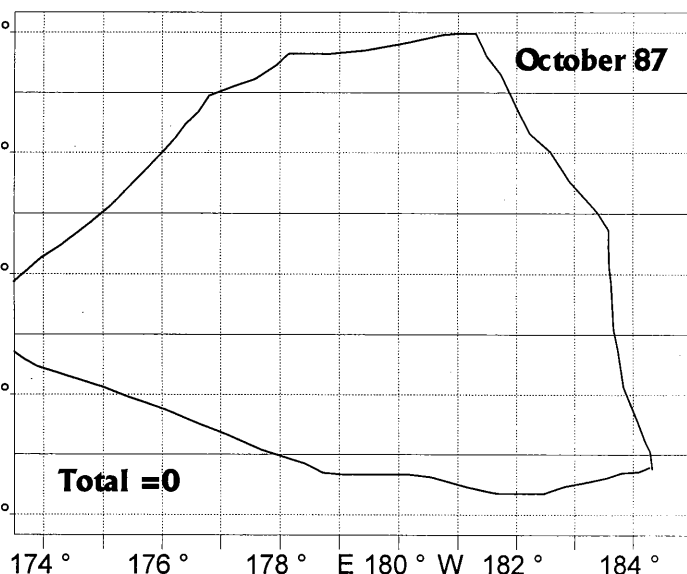
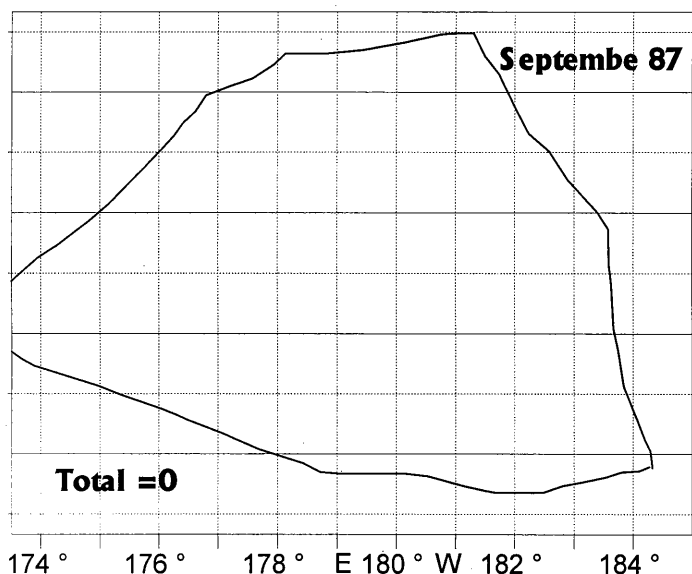
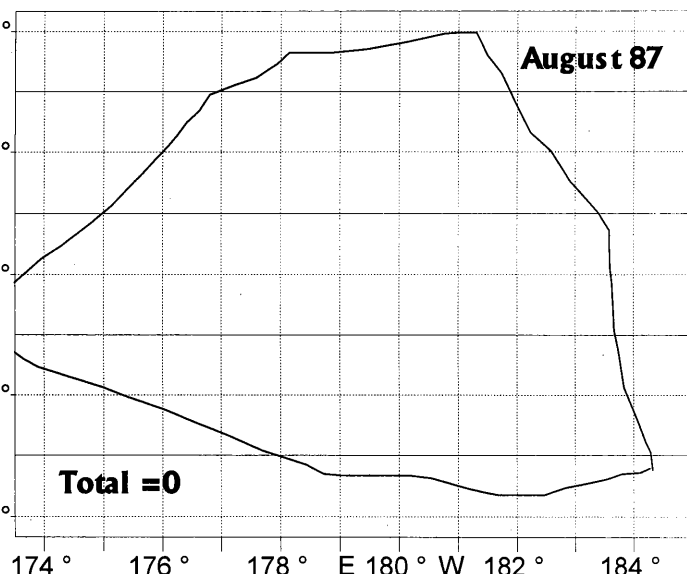
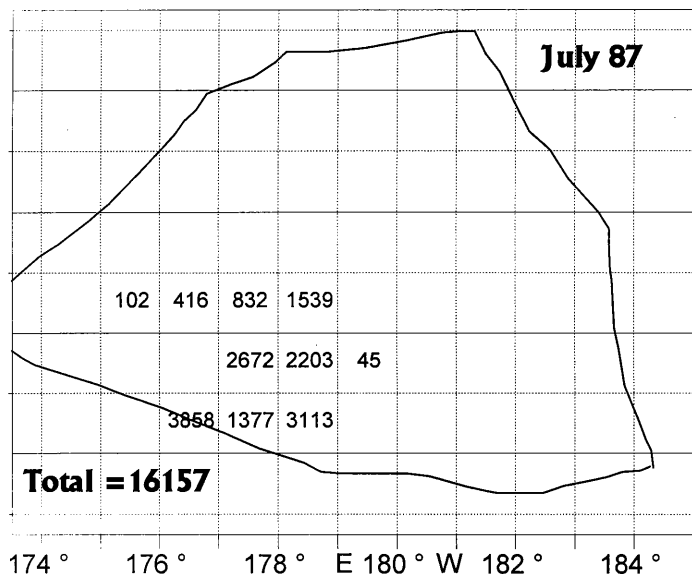


Fig. 4 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1987







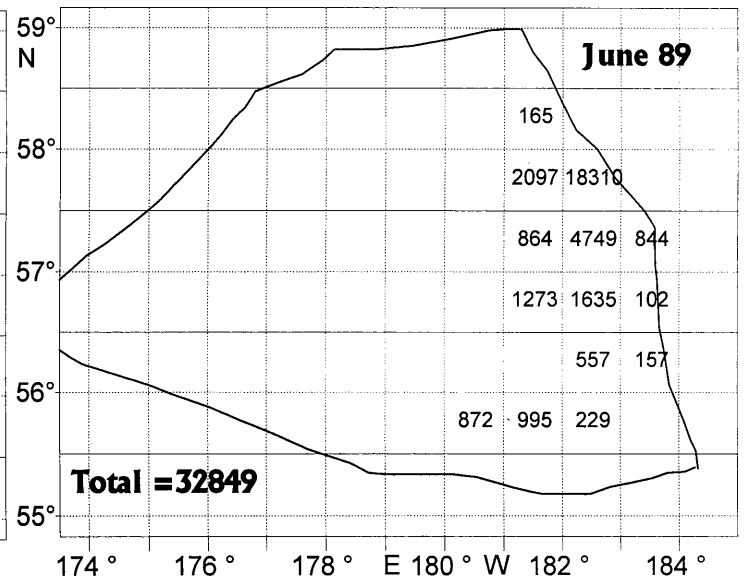
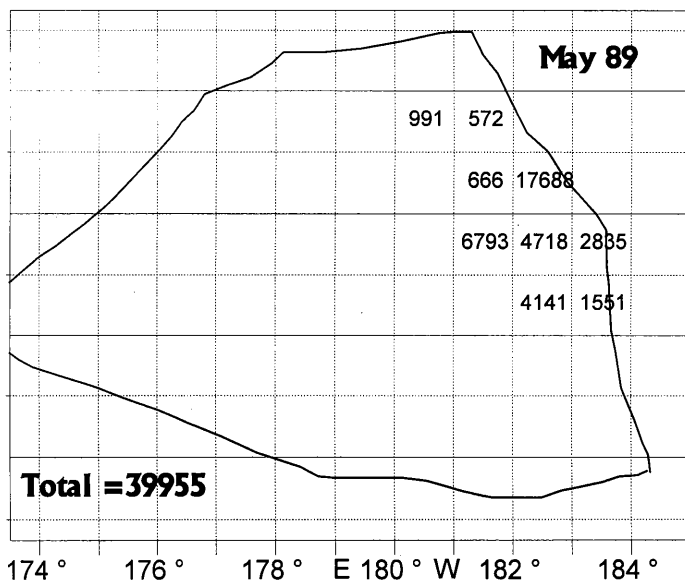
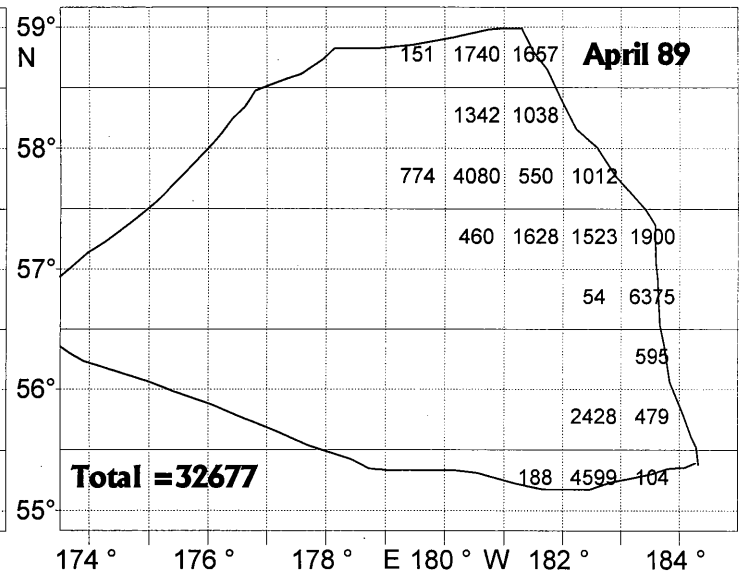
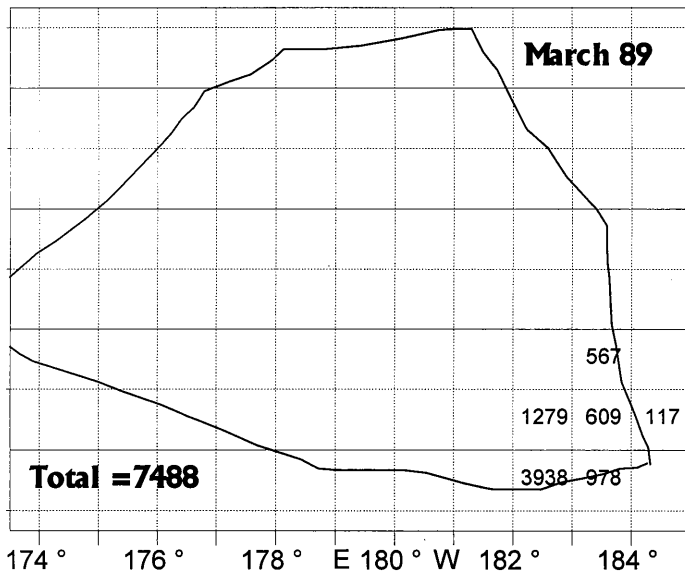
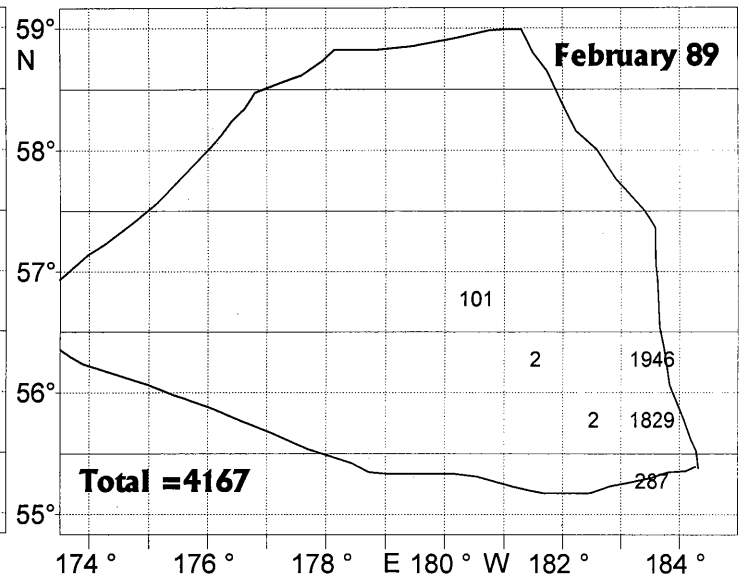
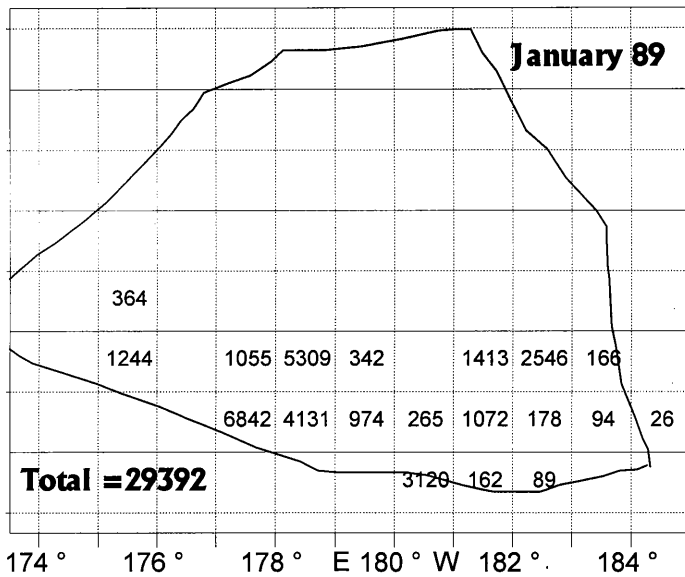


Fig. 6. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1989

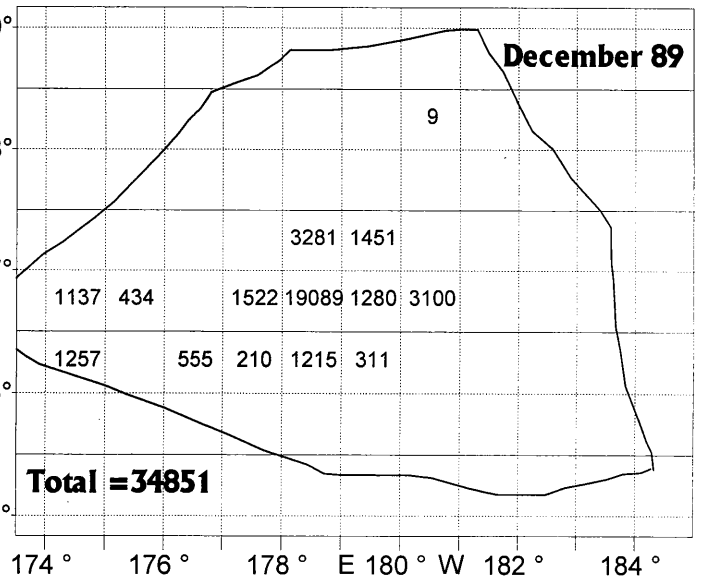
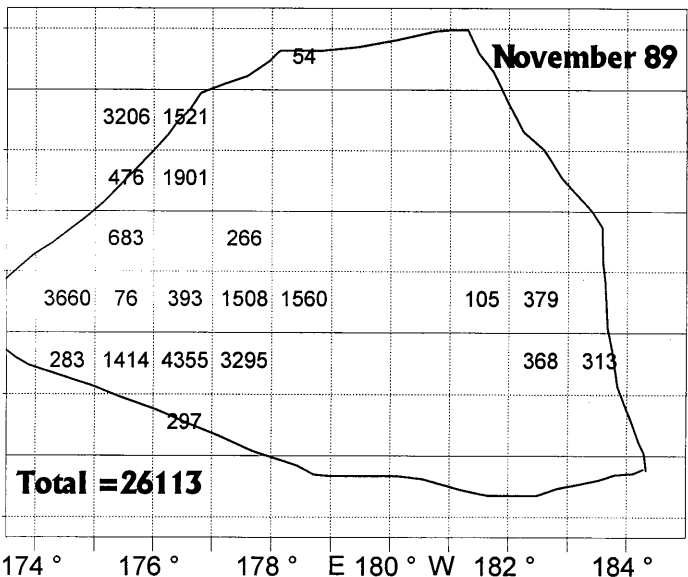
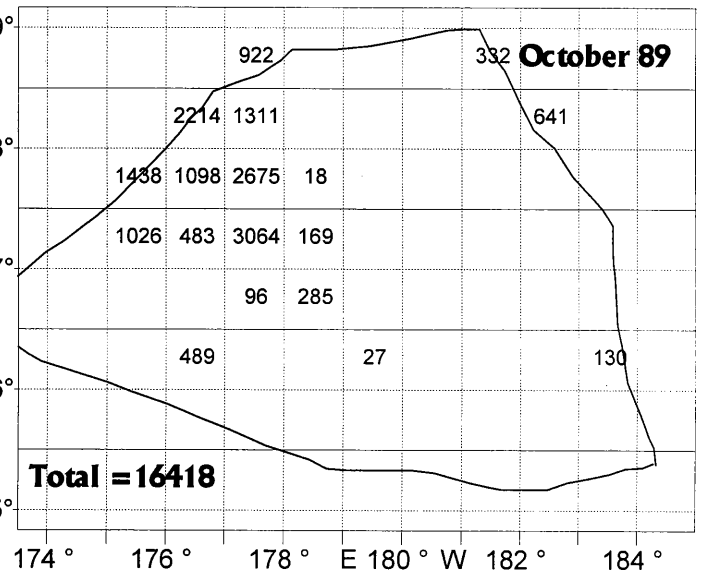
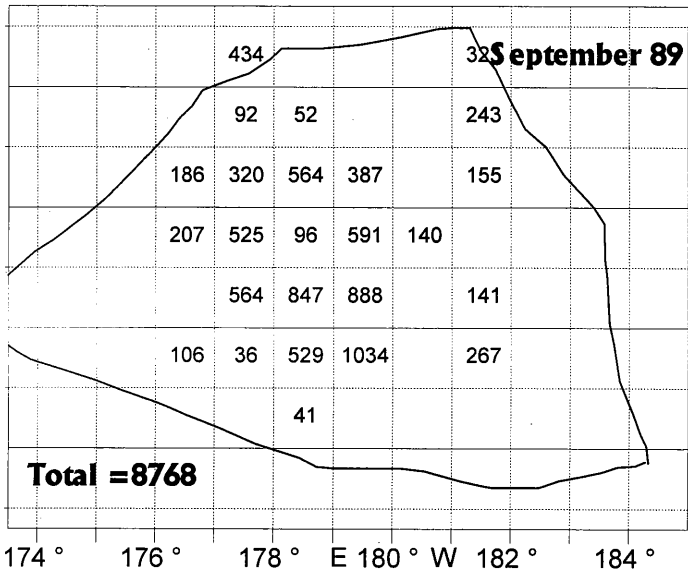
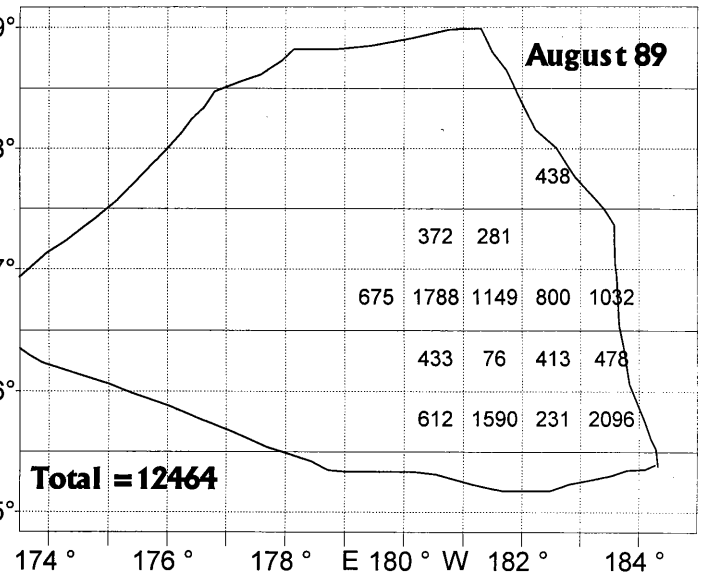
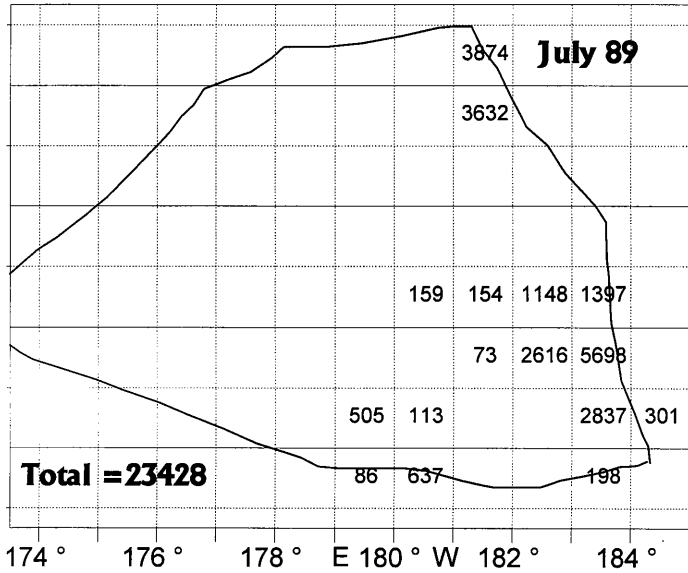


Fig. 6 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1989

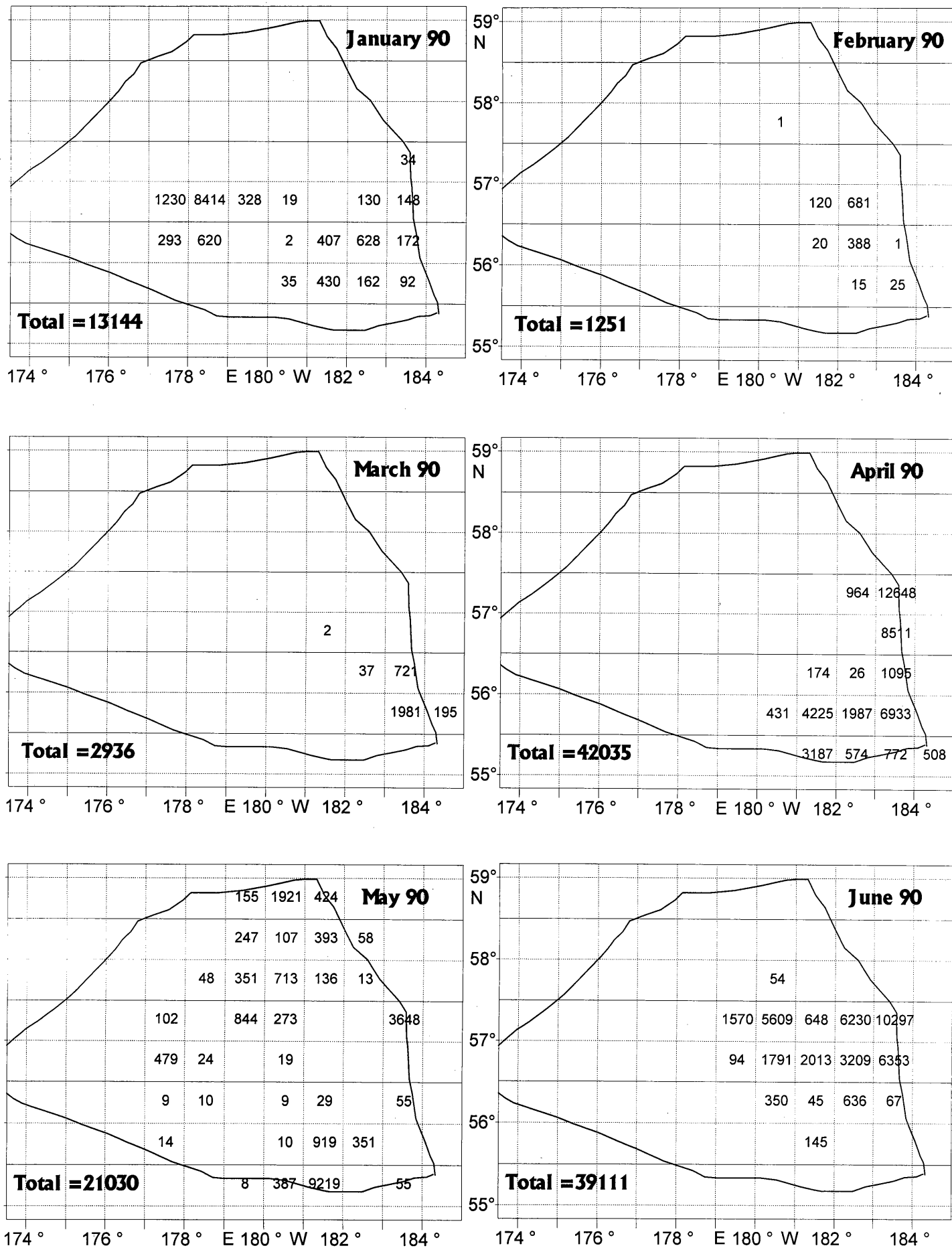


Fig. 7. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1990

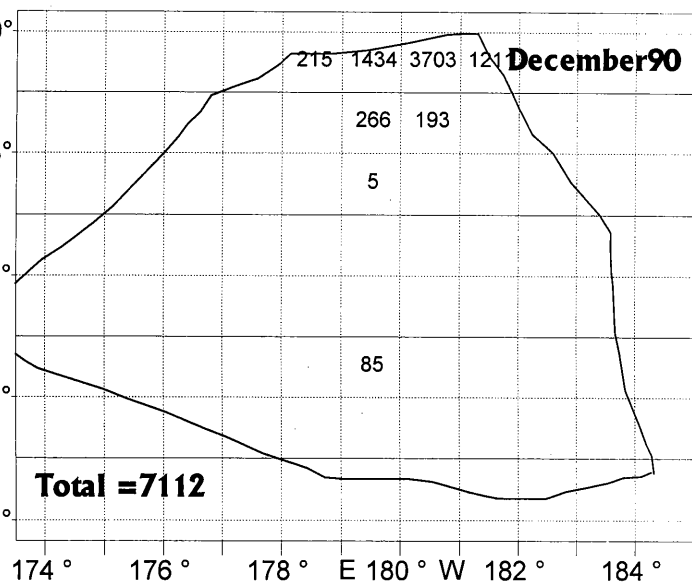
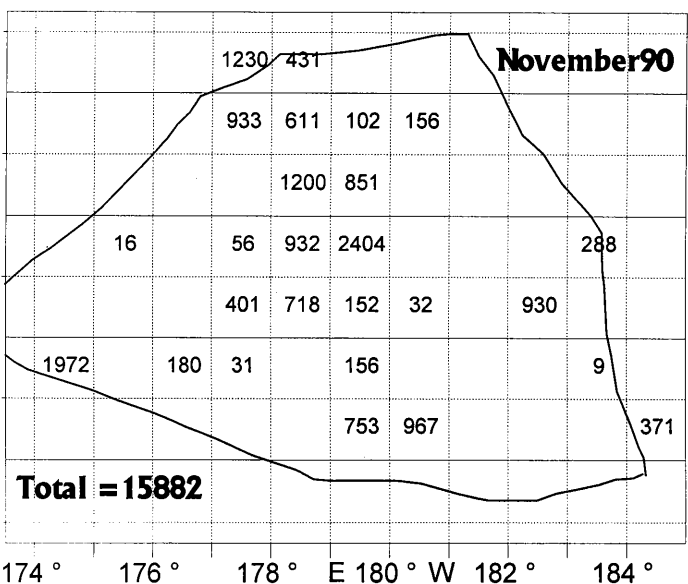
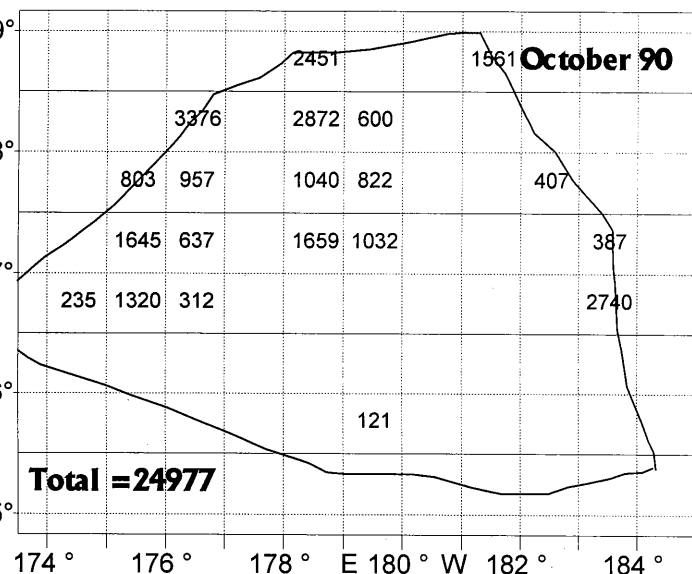
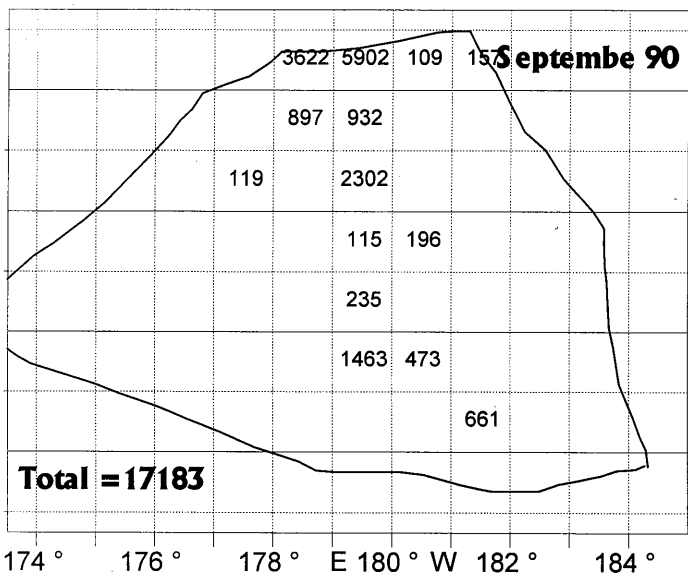
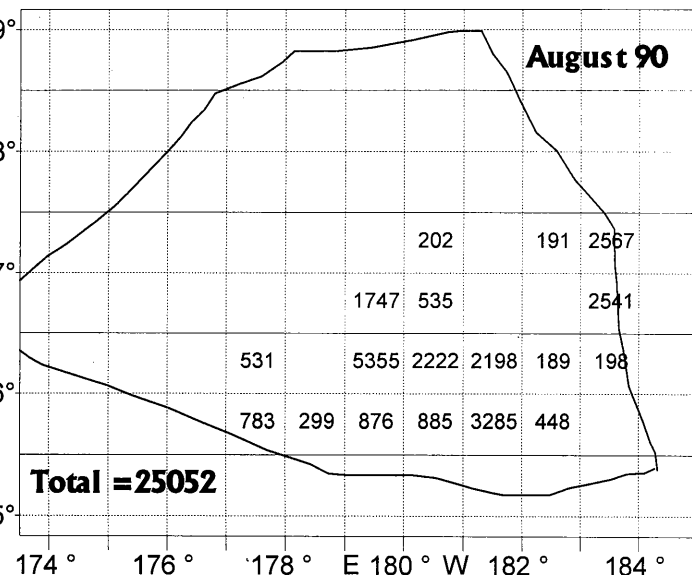
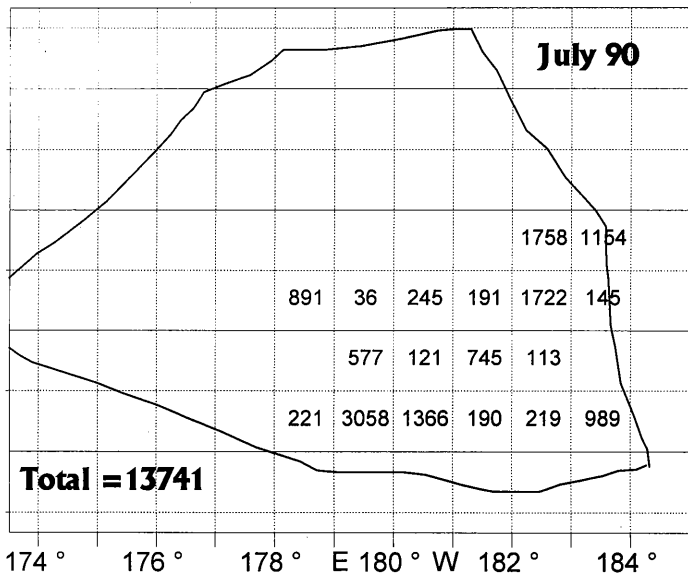


Fig. 7 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1990

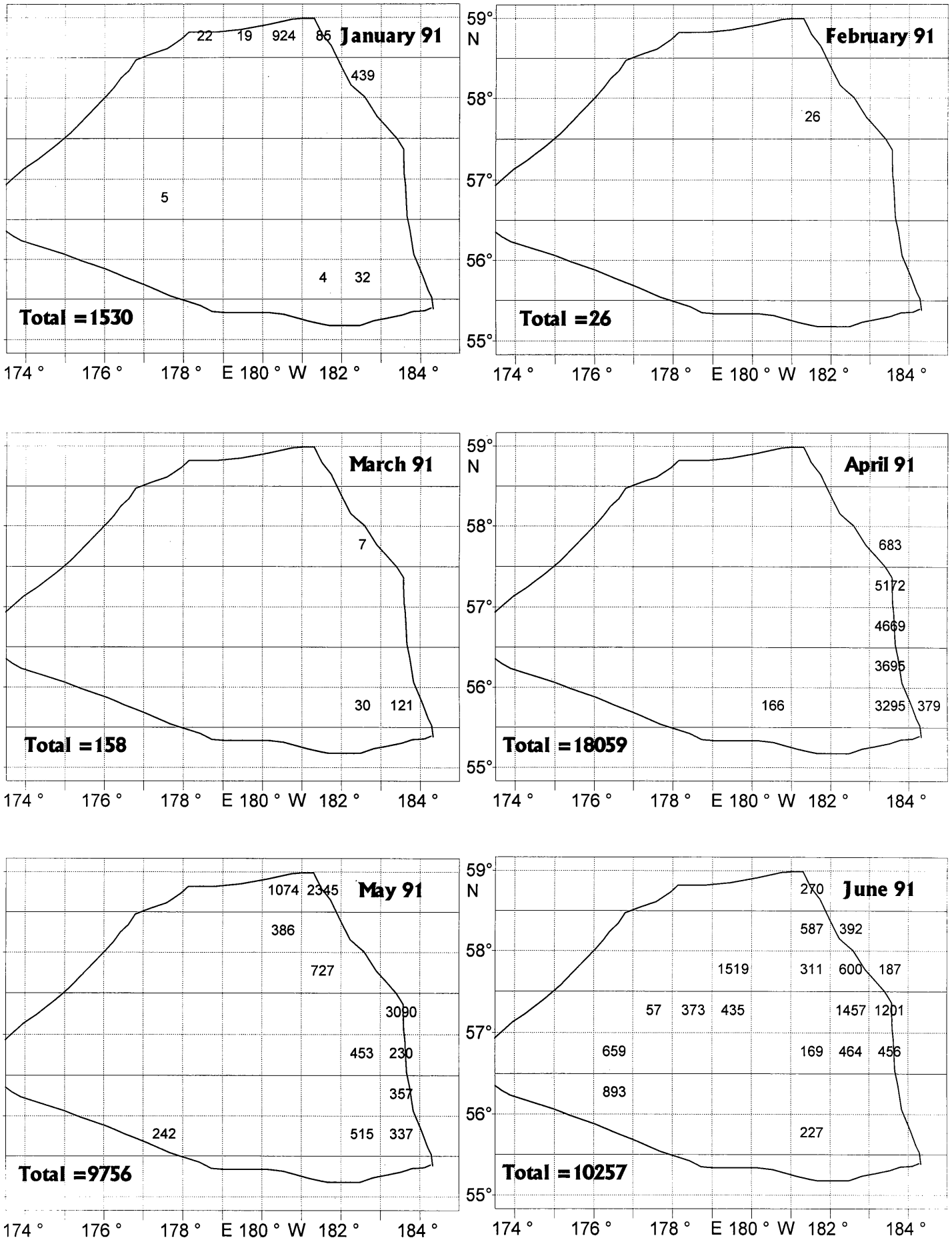


Fig. 8. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1991

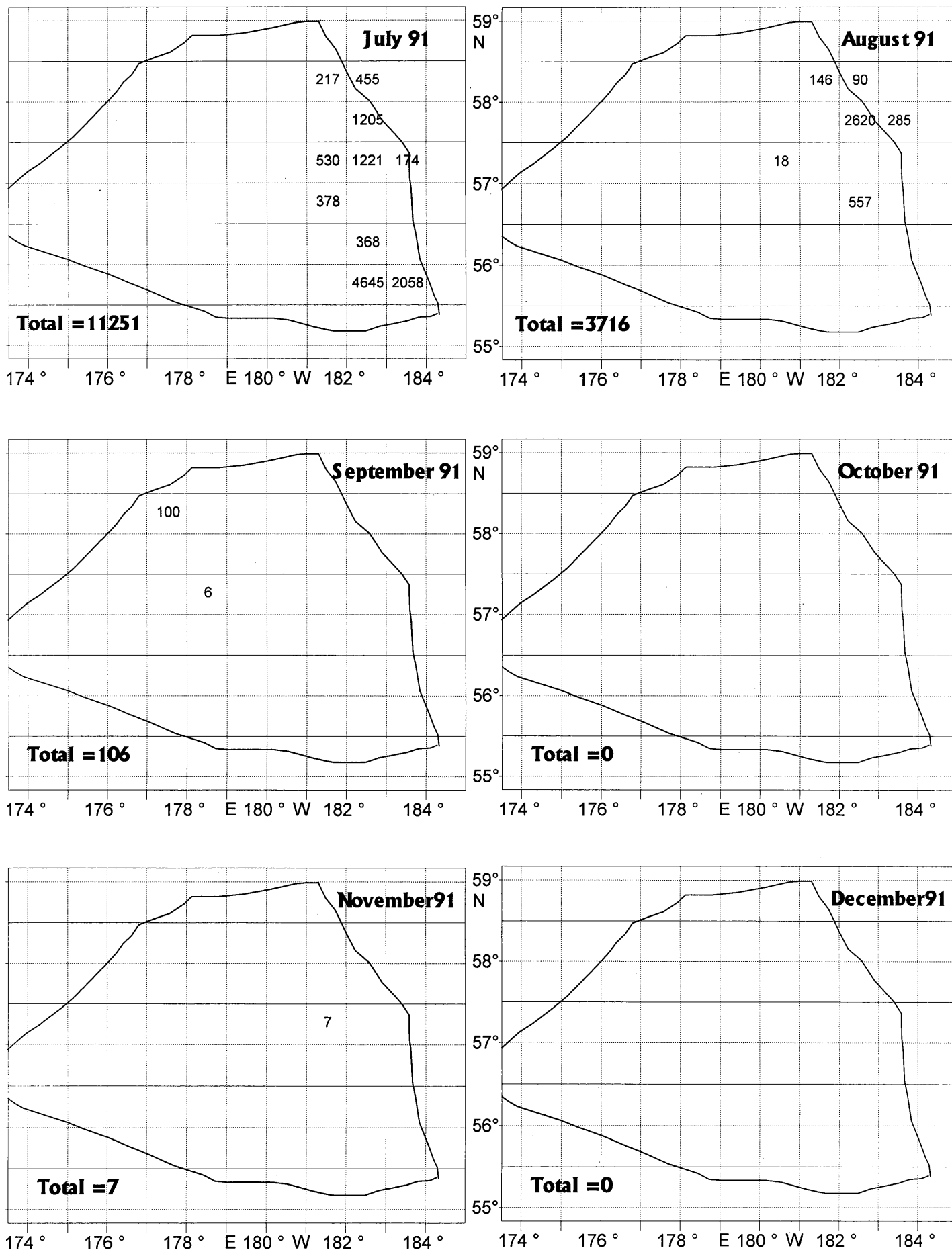
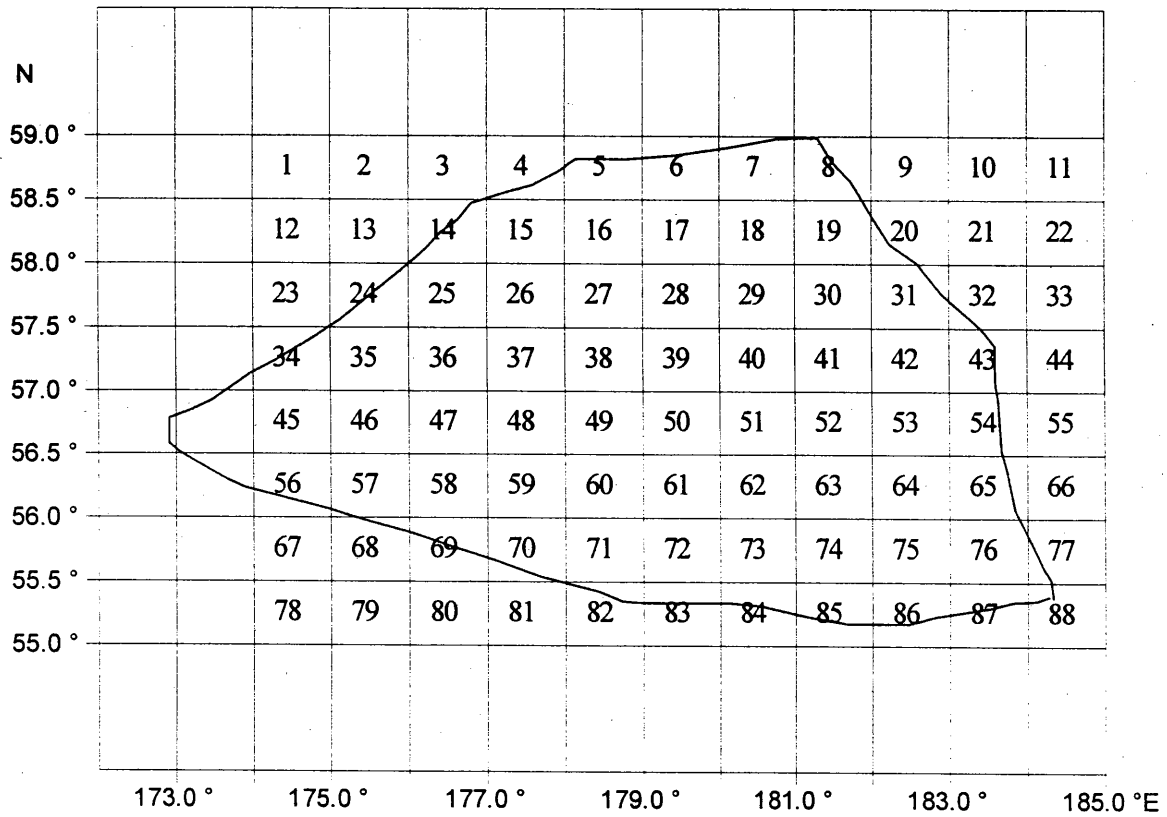


Fig. 8 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by big statistical blocks (1° longitude x 0.5° latitude) by months in 1991

## Attachment 1



Map of the central Bering Sea showing big statistical blocks (0.5° latitude by 1° longitude)

## Attachment 2

Geographical positions (lower left corner of the block 30' latitude by 1° longitude)  
of big statistical blocks used for Polish pollock catch data from the central Bering Sea

Block no	Latitude	Longitude	Block no	Latitude	Longitude
1	58° 30' N	174° 00' E	45	56° 30' N	174° 00' E
2	58° 30' N	175° 00' E	46	56° 30' N	175° 00' E
3	58° 30' N	176° 00' E	47	56° 30' N	176° 00' E
4	58° 30' N	177° 00' E	48	56° 30' N	177° 00' E
5	58° 30' N	178° 00' E	49	56° 30' N	178° 00' E
6	58° 30' N	179° 00' E	50	56° 30' N	179° 00' E
7	58° 30' N	180° 00' E	51	56° 30' N	180° 00' E
8	58° 30' N	179° 00' W	52	56° 30' N	179° 00' W
9	58° 30' N	178° 00' W	53	56° 30' N	178° 00' W
10	58° 30' N	177° 00' W	54	56° 30' N	177° 00' W
11	58° 30' N	176° 00' W	55	56° 30' N	176° 00' W
12	58° 00' N	174° 00' E	56	56° 00' N	174° 00' E
13	58° 00' N	175° 00' E	57	56° 00' N	175° 00' E
14	58° 00' N	176° 00' E	58	56° 00' N	176° 00' E
15	58° 00' N	177° 00' E	59	56° 00' N	177° 00' E
16	58° 00' N	178° 00' E	60	56° 00' N	178° 00' E
17	58° 00' N	179° 00' E	61	56° 00' N	179° 00' E
18	58° 00' N	180° 00' E	62	56° 00' N	180° 00' E
19	58° 00' N	179° 00' W	63	56° 00' N	179° 00' W
20	58° 00' N	178° 00' W	64	56° 00' N	178° 00' W
21	58° 00' N	177° 00' W	65	56° 00' N	177° 00' W
22	58° 00' N	176° 00' W	66	56° 00' N	176° 00' W
23	57° 30' N	174° 00' E	67	55° 30' N	174° 00' E
24	57° 30' N	175° 00' E	68	55° 30' N	175° 00' E
25	57° 30' N	176° 00' E	69	55° 30' N	176° 00' E
26	57° 30' N	177° 00' E	70	55° 30' N	177° 00' E
27	57° 30' N	178° 00' E	71	55° 30' N	178° 00' E
28	57° 30' N	179° 00' E	72	55° 30' N	179° 00' E
29	57° 30' N	180° 00' E	73	55° 30' N	180° 00' E
30	57° 30' N	179° 00' W	74	55° 30' N	179° 00' W
31	57° 30' N	178° 00' W	75	55° 30' N	178° 00' W
32	57° 30' N	177° 00' W	76	55° 30' N	177° 00' W
33	57° 30' N	176° 00' W	77	55° 30' N	176° 00' W
34	57° 00' N	174° 00' E	78	55° 00' N	174° 00' E
35	57° 00' N	175° 00' E	79	55° 00' N	175° 00' E
36	57° 00' N	176° 00' E	80	55° 00' N	176° 00' E
37	57° 00' N	177° 00' E	81	55° 00' N	177° 00' E
38	57° 00' N	178° 00' E	82	55° 00' N	178° 00' E
39	57° 00' N	179° 00' E	83	55° 00' N	179° 00' E
40	57° 00' N	180° 00' E	84	55° 00' N	180° 00' E
41	57° 00' N	179° 00' W	85	55° 00' N	179° 00' W
42	57° 00' N	178° 00' W	86	55° 00' N	178° 00' W
43	57° 00' N	177° 00' W	87	55° 00' N	177° 00' W
44	57° 00' N	176° 00' W	88	55° 00' N	176° 00' W



Block No.	Latitude	Longitude	Block No.	Latitude
1	58° 50' N	174° 00' E	61	58° 30' N
2	58° 50' N	174° 30' E	62	58° 30' N
3	58° 50' N	175° 00' E	63	58° 30' N
4	58° 50' N	175° 30' E	64	58° 20' N
5	58° 50' N	176° 00' E	65	58° 20' N
6	58° 50' N	176° 30' E	66	58° 20' N
7	58° 50' N	177° 00' E	67	58° 20' N
8	58° 50' N	177° 30' E	68	58° 20' N
9	58° 50' N	178° 00' E	69	58° 20' N
10	58° 50' N	178° 30' E	70	58° 20' N
11	58° 50' N	179° 00' E	71	58° 20' N
12	58° 50' N	179° 30' E	72	58° 20' N
13	58° 50' N	180° 00' E	73	58° 20' N
14	58° 50' N	179° 30' W	74	58° 20' N
15	58° 50' N	178° 00' W	75	58° 20' N
16	58° 50' N	178° 30' W	76	58° 20' N
17	58° 50' N	177° 00' W	77	58° 20' N
18	58° 50' N	177° 30' W	78	58° 20' N
19	58° 50' N	176° 00' W	79	58° 20' N
20	58° 50' N	176° 30' W	80	58° 20' N
21	58° 50' N	175° 00' W	81	58° 20' N
22	58° 40' N	174° 00' E	82	58° 20' N
23	58° 40' N	174° 30' E	83	58° 20' N
24	58° 40' N	175° 00' E	84	58° 20' N
25	58° 40' N	175° 30' E	85	58° 10' N
26	58° 40' N	176° 00' E	86	58° 10' N
27	58° 40' N	176° 30' E	87	58° 10' N
28	58° 40' N	177° 00' E	88	58° 10' N
29	58° 40' N	177° 30' E	89	58° 10' N
30	58° 40' N	178° 00' E	90	58° 10' N
31	58° 40' N	178° 30' E	91	58° 10' N
32	58° 40' N	179° 00' E	92	58° 10' N
33	58° 40' N	179° 30' E	93	58° 10' N
34	58° 40' N	180° 00' E	94	58° 10' N
35	58° 40' N	179° 30' W	95	58° 10' N
36	58° 40' N	178° 00' W	96	58° 10' N
37	58° 40' N	178° 30' W	97	58° 10' N
38	58° 40' N	177° 00' W	98	58° 10' N
39	58° 40' N	177° 30' W	99	58° 10' N
40	58° 40' N	176° 00' W	100	58° 10' N
41	58° 40' N	176° 30' W	101	58° 10' N
42	58° 40' N	175° 00' W	102	58° 10' N
43	58° 30' N	174° 00' E	103	58° 10' N
44	58° 30' N	174° 30' E	104	58° 10' N
45	58° 30' N	175° 00' E	105	58° 10' N
46	58° 30' N	175° 30' E	106	58° 00' N
47	58° 30' N	176° 00' E	107	58° 00' N
48	58° 30' N	176° 30' E	108	58° 00' N
49	58° 30' N	177° 00' E	109	58° 00' N
50	58° 30' N	177° 30' E	110	58° 00' N
51	58° 30' N	178° 00' E	111	58° 00' N
52	58° 30' N	178° 30' E	112	58° 00' N
53	58° 30' N	179° 00' E	113	58° 00' N
54	58° 30' N	179° 30' E	114	58° 00' N
55	58° 30' N	180° 00' E	115	58° 00' N
56	58° 30' N	179° 30' W	116	58° 00' N
57	58° 30' N	178° 00' W	117	58° 00' N
58	58° 30' N	178° 30' W	118	58° 00' N
59	58° 30' N	177° 00' W	119	58° 00' N
60	58° 30' N	177° 30' W	120	58° 00' N
181	57° 30' N	180° 00' E	241	57° 00' N
182	57° 30' N	179° 30' W	242	57° 00' N
183	57° 30' N	178° 00' W	243	57° 00' N
184	57° 30' N	178° 30' W	244	57° 00' N
185	57° 30' N	177° 00' W	245	57° 00' N
186	57° 30' N	177° 30' W	246	57° 00' N
187	57° 30' N	176° 00' W	247	57° 00' N
188	57° 30' N	176° 30' W	248	57° 00' N
189	57° 30' N	175° 00' W	249	57° 00' N
190	57° 20' N	174° 00' E	250	57° 00' N
191	57° 20' N	174° 30' E	251	57° 00' N
192	57° 20' N	175° 00' E	252	57° 00' N
193	57° 20' N	175° 30' E	253	56° 50' N
194	57° 20' N	176° 00' E	254	56° 50' N
195	57° 20' N	176° 30' E	255	56° 50' N
196	57° 20' N	177° 00' E	256	56° 50' N
197	57° 20' N	177° 30' E	257	56° 50' N
198	57° 20' N	178° 00' E	258	56° 50' N
199	57° 20' N	178° 30' E	259	56° 50' N
200	57° 20' N	179° 00' E	260	56° 50' N
201	57° 20' N	179° 30' E	261	56° 50' N
202	57° 20' N	180° 00' E	262	56° 50' N
203	57° 20' N	179° 30' W	263	56° 50' N
204	57° 20' N	178° 00' W	264	56° 50' N
205	57° 20' N	178° 30' W	265	56° 50' N
206	57° 20' N	177° 00' W	266	56° 50' N
207	57° 20' N	177° 30' W	267	56° 50' N
208	57° 20' N	176° 00' W	268	56° 50' N
209	57° 20' N	176° 30' W	269	56° 50' N
210	57° 20' N	175° 00' W	270	56° 50' N
211	57° 10' N	174° 00' E	271	56° 50' N
212	57° 10' N	174° 30' E	272	56° 50' N
213	57° 10' N	175° 00' E	273	56° 50' N
214	57° 10' N	175° 30' E	274	56° 40' N
215	57° 10' N	176° 00' E	275	56° 40' N
216	57° 10' N	176° 30' E	276	56° 40' N
217	57° 10' N	177° 00' E	277	56° 40' N
218	57° 10' N	177° 30' E	278	56° 40' N
219	57° 10' N	178° 00' E	279	56° 40' N
220	57° 10' N	178° 30' E	280	56° 40' N
221	57° 10' N	179° 00' E	281	56° 40' N
222	57° 10' N	179° 30' E	282	56° 40' N
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**Tab 4****Monthly Plots of Pollock Catches**

**by Small Statistical Blocks  
(1/2 ° Longitude x 10 minute Latitude)**

**by Poland  
in the Donut Hole Area of the Central Bering Sea  
during 1985 - 1991**

Table 9. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 85	309	24	February 85	288	77	March 85	35	70	April 85	76	619	May 85	15	712	June 85	54	196
	348	85		393	662		165	58		97	249		30	3203		136	131
	351	76		394	72		332	268		118	399		114	2360		156	206
	392	87		414	197		395	688		120	283		115	936		176	592
	394	54		415	2842		398	72		139	493		122	849		196	535
	395	75		416	4402		417	63		140	837		135	3637		197	296
	413	180		417	1718		418	244		141	1621		136	920		218	508
	414	988		418	1427		419	1901		160	938		155	1373		239	706
	415	794		419	2040		437	302		162	874		156	264		260	577
	416	371		433	1053		438	1607		202	876		160	4849		279	905
	417	195		438	1442		439	709		204	249		161	248		286	7
	437	35		439	228		440	1815		223	495		162	1223		300	1377
	439	88		440	135		441	24		224	163		163	789		301	325
	456	54		455	307		458	1194		246	430		164	1281		304	327
	457	229		459	277		459	156		250	60		176	517		305	171
	458	92		478	77		460	859		266	305		182	224		308	736
										268	771		185	229		312	347
										290	230		225	5091		313	18
										291	409		226	609		322	1081
										311	411		245	1542		323	298
										312	175					325	636
										333	235					326	307
										334	231					327	366
										353	135					342	339
										354	397					343	1421
										355	289					344	659
										375	558					345	472
										376	355					346	640
										396	264					347	199
										397	354					364	714
										398	912					365	249
										417	183					370	848
										418	1159					371	1073
										419	551					392	859
										437	196					412	19
										439	432						
										440	286						
										456	71						
										457	58						
										458	62						
										459	424						
										460	118						
										461	162						
										462	133						
Total		3407	Total		16954	Total		10031	Total		18456	Total		30855	Total		18161

Table 9 cont.

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
July 85	322	94	August 85			September 85			October 85			November 85			December 85	288	319
																289	891
																292	357
																310	277
																327	52
																331	2020
																332	547
																347	54
																348	48
																350	51
																352	644
																354	2755
																372	273
																374	1313
																375	2260
																392	55
																393	359
																395	728
																396	2607
																397	356
																398	28
																408	48
																412	157
																413	302
																416	12
																417	1024
																437	36
																459	342
Total		94	Total		0	Total		0	Total		0	Total		0	Total		17916

Table 10. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986

Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch
January 86	288	1444	February 86	377	251	March 86	247	1145	April 86	110	364	May 86	68	652	June 86	232	105
	289	2259		392	1908		248	323		111	415		69	213		239	501
	308	191		393	468		250	654		113	277		70	3075		253	207
	309	1824		394	132		267	653		130	428		71	204		259	281
	329	820		397	1074		270	336		132	421		89	168		279	248
	330	65		398	2426		271	300		133	1223		90	1045		283	381
	350	448		413	647		290	1547		134	151		91	995		295	412
	351	403		414	837		291	530		150	61		94	68		299	192
	371	579		415	436		292	7008		151	785		110	738		300	214
	372	106		416	168		312	194		152	369		111	1798		301	27
	391	2656		417	458		313	1062		153	334		112	1163		304	111
	392	439		418	1443		332	123		154	2462		131	725		318	685
	393	177		419	756		333	1007		155	1224		151	224		319	302
	411	1231		434	2778		334	308		156	402		152	730		325	312
	412	3907		435	810		356	227		172	444		153	119		344	33
	413	915		436	518		377	595		174	582		172	863		366	285
	414	1582		437	2845		397	603		175	2051		173	398		386	67
	432	1508		438	939		398	640		176	1219		176	48		387	118
	433	3609		439	686		419	638		218	933		192	251		394	63
	434	2705		440	155		420	623		223	1535		193	782		415	98
	435	2730		455	180		440	228		244	187		214	2145		428	16
	454	1268		456	258		441	137		245	194		215	148		437	10
	455	1223		457	752		461	56		262	482		218	72		452	23
				458	245					265	2526		222	30		455	183
										266	926		253	188		456	66
										267	1685		330	2			
										268	395		387	101			
										285	1139		410	143			
										286	1222		415	48			
										287	459		429	53			
										288	316		430	315			
										306	52		436	18			
										307	825		451	154			
										308	275		452	171			
										309	259		453	8			
Total		32290	Total		21169	Total		18937	Total		26644	Total		17852	Total		4939

Table 10 cont.

Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch
July 86	302	44	August 86	367	6	September 86			October 86	239	185	November 86	183	1342	December 86	242	424
	303	28								258	240		219	712		264	1325
	344	120								281	348		240	123		284	1008
	345	112								283	738		246	33		285	390
	386	35								284	232		247	38		304	1698
										290	334		260	334		306	414
										323	87		261	109		308	785
										324	371		267	665		325	1825
													268	361		326	1828
													280	272		344	1497
													281	167		346	1963
													282	272		348	15
													283	579		366	478
													284	123		367	467
													286	70		368	119
													288	549		388	226
													289	108		389	793
													290	13		406	46
													303	641		409	2405
													304	158		411	23
													305	757		429	873
													308	237		430	1716
													310	1101		431	1541
													312	100		432	330
													322	555		434	928
													325	65		436	105
													344	267		451	328
													345	332		452	267
													346	345		453	1082
													347	41		454	70
													365	32		455	198
													366	65		478	188
													367	87			
													368	2			
													388	90			
													408	435			
													409	442			
													410	905			
													430	297			
													431	688			
Total		339	Total		6	Total		0	Total		2201	Total		13514	Total		25358

Table 11. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1987

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch					
January 87	325	71	February 87	347	400	March 87	229	88	April 87	326	483	May 87	194	120	June 87	260	261					
	326	118			366		1148			249	208			345		128		235	57		261	264
	344	265			367		5028			250	50			394		299		240	717		262	533
	345	1547			368		3113			268	17			407		822		256	301		281	643
	346	2492			372		21			270	282			417		704		257	379		283	66
	347	932			387		1373			271	260			427		250		262	232		298	180
	366	1487			388		6005			291	25			428		246		276	293		299	522
	367	9214			399		2814			292	66			429		3475		277	1056		300	561
	368	2229			393		70			312	584			430		181		280	160		301	664
	387	1288			408		1346			313	796			431		478		296	431		302	588
	388	6580			409		5261			325	103			432		744		297	1776		303	2234
	389	405			410		2112			334	193			433		302		299	1579		304	1792
	408	953			430		291			355	660			434		2325		300	255		321	880
	409	5934			431		1613			356	713			435		1353		301	70		322	823
	410	163			434		145			375	857			436		113		302	587		323	1559
	429	504			451		1267			376	220			438		128		306	3567		324	1578
	430	5225			452		140			377	128			450		1156		307	438		325	386
	431	416								388	1680			451		869		318	1061		326	193
	451	838								396	2217			452		2514		319	1779		344	2269
	452	377								397	498			453		7484		320	551		345	275
	459	34								398	84			454		4415		321	2091		346	1403
	461	37								408	44			455		134		323	443		355	3224
							409	138		456	1416		324	950		366	1180					
							410	315		458	129		325	453		367	302					
							411	24		474	486		339	657		387	277					
							418	521		475	58		340	144		408	950					
							419	7		476	600		345	230		409	610					
							429	162					348	893		428	131					
							430	594					349	182		429	163					
							431	8					360	486								
							438	1742					368	391								
							439	315					370	1195								
							451	113					391	176								
													393	72								
													411	2301								
													431	141								
													433	617								
													453	2999								
													454	508								
Total		41107	Total		32146	Total		13715	Total		31292	Total		30338	Total		24512					

Table 11 cont.

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch			
July 87	256	102	August 87			September 87			October 87			November 87	238	343	December 87	214	92			
		257		260												239	2474		216	284
		259		131												259	127		218	211
		260		167												260	170		222	1184
		261		41												282	217		223	1823
		278		156												300	116		234	868
		281		379												301	240		235	749
		282		692												302	252		238	212
		283		701												322	56		239	266
		302		155												323	189		240	52
		303		106												324	291		243	672
		322		300												325	617		244	619
		323		612												344	25		256	311
		325		44												345	464		260	334
		327		45												346	53		261	248
		343		742												362	41		262	97
		345		1326												363	185		279	168
		346		440												364	645		280	954
		364		1017												365	897		281	280
		366		393												366	49		282	85
		384		269												384	931		283	297
		385		270												385	1006		284	2084
		387		487												386	1221		302	197
		404		116												405	52		303	777
		405		3473												406	1756		321	34
	406	783								407	879		322	912						
	407	203								428	45		323	113						
	408	998											326	745						
	428	121											327	127						
	429	1629											340	1022						
													343	471						
													345	570						
													356	47						
													369	598						
													371	226						
													382	360						
													383	683						
													384	1962						
													390	406						
													392	156						
													393	112						
													399	115						
													404	1435						
													405	754						
													407	47						
													408	898						
													409	157						
													411	29						
													414	1628						
													415	339						
													420	107						
													429	76						
													452	735						
Total		16157	Total		0	Total		0	Total		0	Total		13342	Total		27709			

Table 12. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1988

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 88	249	339	February 88	119	36	March 88	34	2	April 88	184	1831	May 88	50	467	June 88	14	1951
	268	2054		120	12		74	67		205	1911		77	249		15	240
	269	188		141	23		77	17		206	2001		79	240		35	2705
	270	47		142	46		97	3		225	1411		92	216		36	482
	286	414		143	6		98	31		226	524		113	62		56	7081
	287	107		160	6		99	14		227	848		114	507		57	4137
	288	151		161	6		100	4		246	1565		119	19		77	455
	289	1938		162	42		119	3		247	931		120	7		78	6151
	290	3303		183	69		139	22		268	1806		134	79		98	526
	291	62		184	36		140	9		269	667		135	121		99	1929
	312	654		186	15		141	67		313	973		142	128		119	34
	328	341		204	43		142	3		374	614		156	272		120	1261
	333	81		205	63		161	62		394	1021		202	244		121	526
	341	30		206	34		179	1		395	575		205	39		140	84
	342	23		207	5		181	1		396	4061		219	299		141	96
	350	945		225	69		182	18		416	345		220	169		142	61
	351	559		226	106		183	26		417	485		226	10		143	323
	356	1209		249	5		203	30		418	1322		245	369		160	27
	361	1114		310	36		205	2		419	709		264	9		161	82
	362	25		330	4		225	15		437	1305		267	198		162	26
	369	307		332	285		271	18		439	6312		268	303		163	141
	370	1705		353	10		334	63		440	8189		280	90		164	268
	371	764		354	44		335	2157		457	1610		282	425		179	13
	373	66		355	20		354	698		458	387		289	334		183	56
	376	400		356	7		355	354		459	7452		306	34		185	960
	377	792		372	2225		356	1801		460	765		307	1922		204	49
	382	118		373	976		375	145		461	58		309	909		205	2284
	384	20		374	9		376	364					310	1372		206	1465
	387	51		375	21		377	548					313	129		228	1259
	389	4626		376	38		397	12					327	886		248	1147
	390	1214		393	451		398	2739					328	2094		249	600
	393	970		394	161		455	14					333	235		264	37
	394	1725		395	5								348	576		270	585
	398	244		396	11								349	1466		271	38
	411	23		413	640								351	110		290	35
	412	952		414	257								354	122		292	450
	414	1117		415	28								363	94		348	36
	419	923		416	1								371	60		364	21
	428	534		417	27								375	32		365	18
	434	773		431	2								397	37		406	37
	440	1018		433	14								409	177		476	46
	454	1543		434	719								412	11		478	70
	455	2471		435	599								418	34			
	456	248		437	111								433	22			
	457	617		438	25												
	461	2106		439	340												
	476	278		451	6												
	478	1758		453	12												
				456	755												
				458	70												
				459	33												
				479	112												
<b>Total</b>		<b>40944</b>	<b>Total</b>		<b>8676</b>	<b>Total</b>		<b>9309</b>	<b>Total</b>		<b>49678</b>	<b>Total</b>		<b>15177</b>	<b>Total</b>		<b>37791</b>

Table 13. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1989

Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch						
January 89	297	364	February 89	308	101	March 89	334	549	April 89	33	70	May 89	76	775	June 89	121	165						
	319	159		331	2		335	8		54	81		97	216		142	396						
	327	342		355	242		355	3		34	67		100	243		143	1537						
	332	32		356	301		356	1		55	139		121	329		164	578						
	340	1085		376	305		377	6		56	1534		141	666		165	7642						
	352	335		377	1098		398	258		57	1657		143	720		183	491						
	353	535		397	10		419	38		77	1342		164	1227		184	1210						
	354	1183		398	252		420	117		99	216		165	2173		185	6129						
	365	1055		416	2		438	1279		100	654		185	3299		186	2424						
	366	3836		418	66		439	313		121	168		186	10269		205	542						
	367	1473		419	1263		458	1296		159	454		205	2190		206	225						
	372	774		440	237		459	2642		180	320		206	641		207	626						
	373	304		461	287		460	978		160	3839		207	1192		208	844						
	374	308								181	241		208	1576		226	322						
	375	488								142	453		225	593		228	970						
	376	2								163	97		226	425		248	2095						
	377	164								143	825		227	644		249	833						
	386	2535								185	102		228	1096		268	810						
	387	1598								186	85		229	1259		289	463						
	394	1072								202	460		246	1747		290	1198						
	395	42								246	1258		247	1838		291	437						
	396	43								247	370		248	358		313	102						
	398	48								248	1110		249	787		332	542						
	406	1164								249	413		269	775		354	15						
	407	1800								208	496		271	1551		355	85						
	408	2238								229	613		290	431		356	11						
	411	974								250	791		291	801		376	61						
	416	59								270	54		311	501		393	162						
	417	34								271	223		312	1633		394	26						
	418	46								292	6152					395	85						
	428	1342								335	595					415	69						
	429	295								437	106					416	53						
	434	265								438	2322					434	872						
	441	26								418	479					435	396						
	454	1246								457	188					436	342						
	455	1874								458	456					438	91						
	458	89								459	4143												
	477	59								460	104												
	478	103																					
	Total			29392	Total			4167		Total			7488	Total			32677	Total		39955	Total		32849

Table 13 cont.

Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch	Month	Block nd	Catch						
July 89	36	1121	August 89	186	438	September 89	36	323	October 89	29	77	November 89	31	54	December 89	119	9						
	57	2753		202	372		50	434		49	473		89	1143		219	660						
	78	417		246	281		79	243		50	372		109	3206		240	2621						
	79	2746		267	74		92	61		58	332		110	378		242	1451						
	100	468		268	44		93	52		71	75		132	667		261	1590						
	308	159		285	675		113	31		89	834		152	292		262	5774						
	267	60		286	508		134	32		90	1134		153	942		263	1074						
	289	94		287	153		155	25		91	143		171	476		265	326						
	270	144		288	701		156	206		92	5		235	683		276	160						
	290	251		289	81		174	186		101	641		239	266		282	3333						
	312	754		290	231		175	186		110	107		261	442		284	169						
	292	457		291	409		176	77		111	139		274	947		295	866						
	313	940		292	132		177	194		112	1088		279	87		296	271						
	372	58		293	865		178	164		130	564		280	653		298	274						
	373	15		307	383		180	387		131	289		281	164		301	1522						
	332	460		308	744		184	155		132	390		295	1701		303	4160						
	333	1509		309	142		195	207		133	2347		296	1012		304	4232						
	354	631		310	107		197	78		150	514		297	76		306	38						
	375	16		311	26		199	32		152	419		299	273		308	2774						
	334	408		312	134		200	76		154	302		300	33		316	388						
	355	2055		313	35		202	140		172	360		301	692		317	869						
	356	1175		329	254		217	207		175	26		303	1118		320	314						
	376	389		330	76		218	240		178	18		310	105		324	71						
	377	1671		354	85		219	64		194	483		311	379		325	1019						
	432	505		356	414		222	510		196	79		316	28		326	125						
	434	113		371	179		242	5		197	528		317	189		341	241						
	397	373		374	328		260	110		198	169		318	1414		343	210						
	398	1158		376	64		261	459		213	515		320	281		348	186						
	418	268		396	231		263	557		214	226		321	117		366	125						
	419	57		397	222		264	124		217	165		322	886									
	439	467		415	1134		283	31		218	181		323	1292									
	440	514		418	838		289	141		235	285		338	66									
	441	301		419	365		302	454		238	2085		341	1180									
	453	86		434	612		303	269		239	25		342	943									
	455	637		435	456		304	89		259	96		343	537									
	461	198		439	671		305	207		261	18		344	580									
							326	227		303	126		354	368									
							327	807		304	141		355	313									
							330	43		320	65		362	60									
							344	36		321	424		363	1775									
							345	327		326	27		383	297									
							346	202		334	130												
							351	224															
							363	106															
							408	41															
	Total			23428	Total			12464		Total			8768	Total			16418	Total		26113	Total		34851





Table 15. Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1991

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
January 91	11	6	February 91	184	26	March 91	164	7	April 91	187	683	May 91	35	1074	June 91	15	101
	12	11					437	10		208	3630		36	1672		36	169
	13	743					438	20		229	1542		57	673		78	20
	14	43					439	121		271	374		76	386		99	254
	15	53								292	1129		163	727		100	200
	31	22								293	1735		229	653		121	114
	33	2								313	810		250	2437		123	392
	34	31								314	621		271	68		162	311
	35	3								356	1190		272	162		179	730
	36	32								377	2505		312	453		180	789
	55	103								398	2432		356	357		186	600
	79	439								418	82		386	242		187	187
	260	5								419	204		398	337		206	287
	435	4								420	379		416	268		207	182
	437	32								433	166		417	207		208	318
										439	80		437	39		217	57
										440	496					220	373
																221	435
																228	190
																229	347
																248	797
																250	536
																258	659
																271	315
																290	128
																310	169
																311	336
																313	141
																341	515
																363	378
																415	227
Total		1530			26	Total		158	Total		18059	Total		9756	Total		10257

Table 15 cont.

Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch	Month	Block no	Catch
July 91	100	217	August 91	121	146	September 91	112	100	October 91			November 91	225	7	December 91		
	122	455		122	90		239	6									
	143	490		143	266												
	164	647		144	1131												
	165	68		164	487												
	206	1221		165	735												
	208	174		187	285												
	247	530		223	18												
	309	378		290	557												
	353	102															
	354	266															
	395	624															
	416	181															
	417	3379															
	419	99															
	438	461															
	439	912															
	440	1047															
Total		11251	Total		3716	Total		106	Total		0	Total		7	Total		0

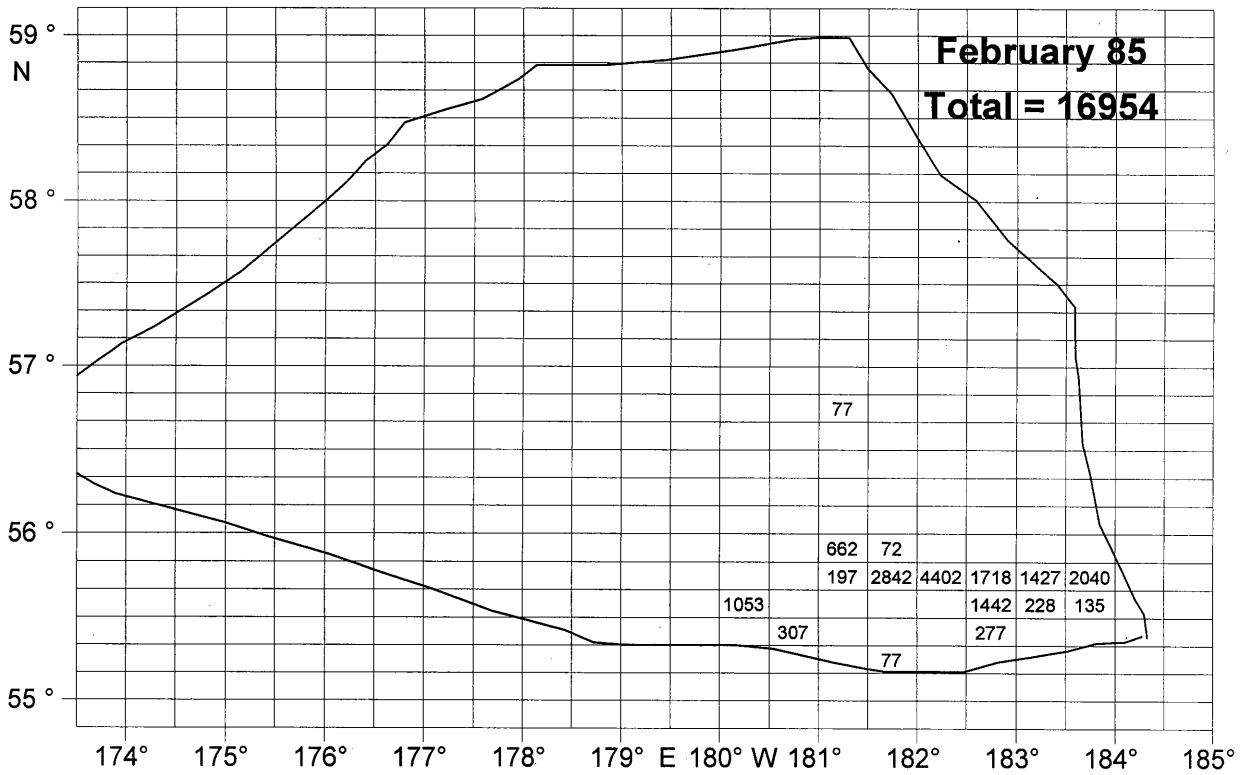
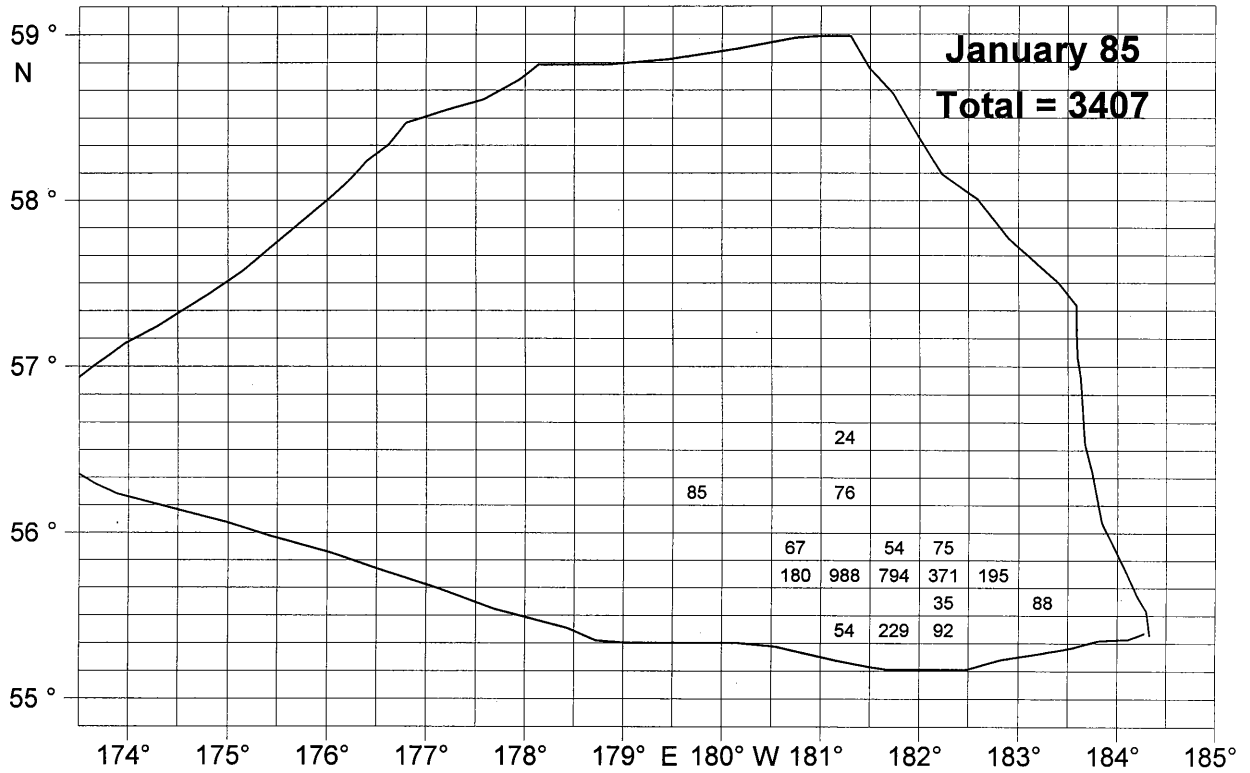


Fig. 9. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

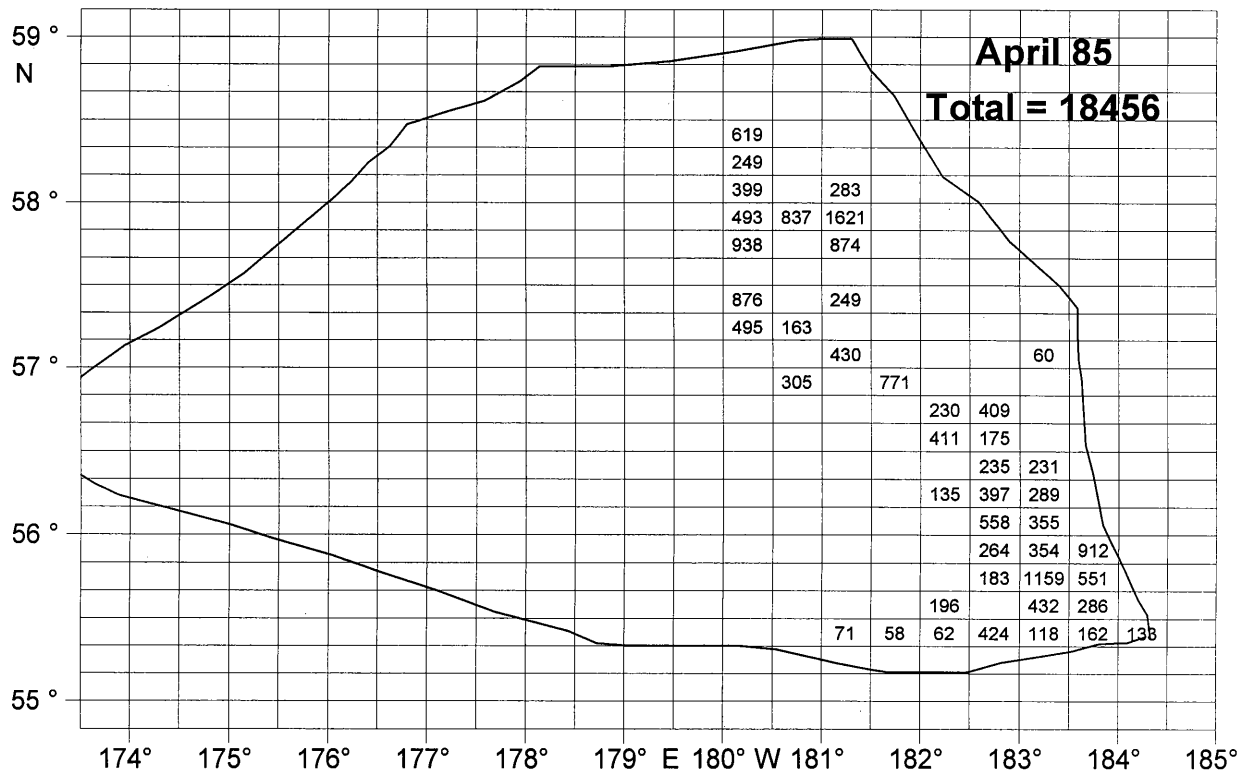
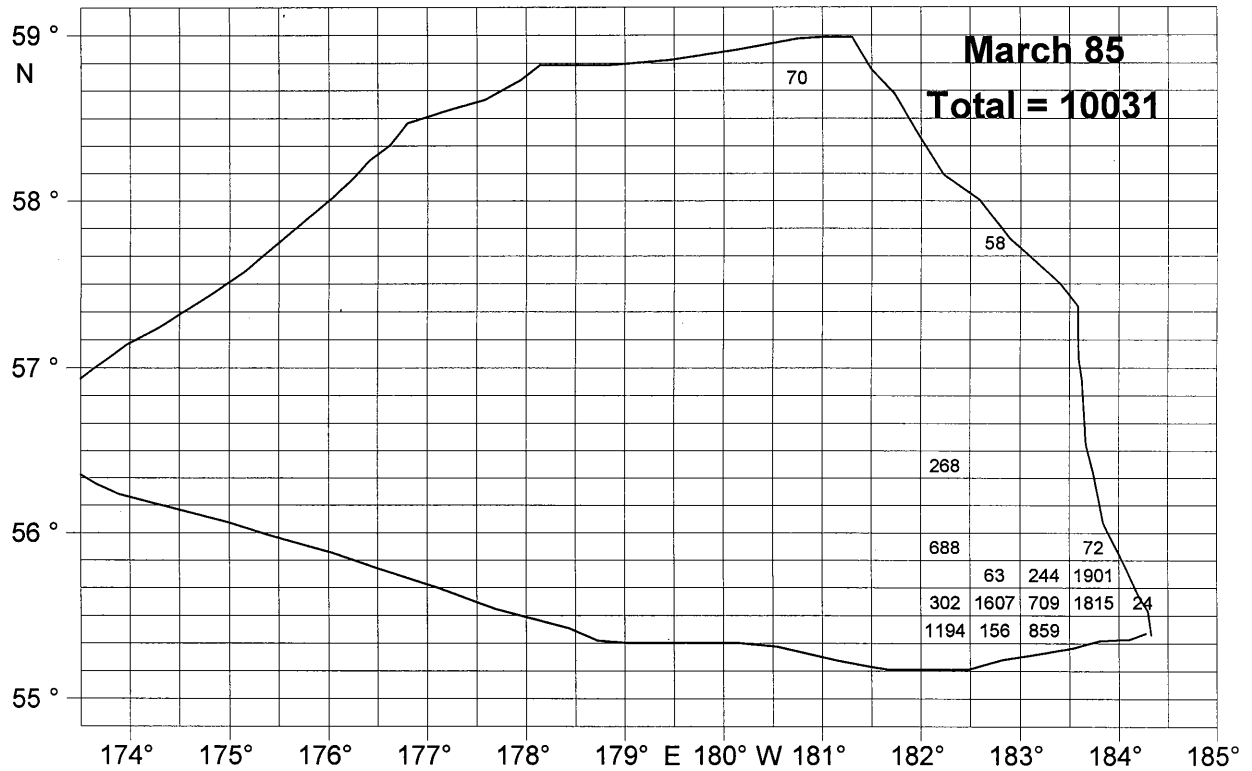


Fig. 9 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

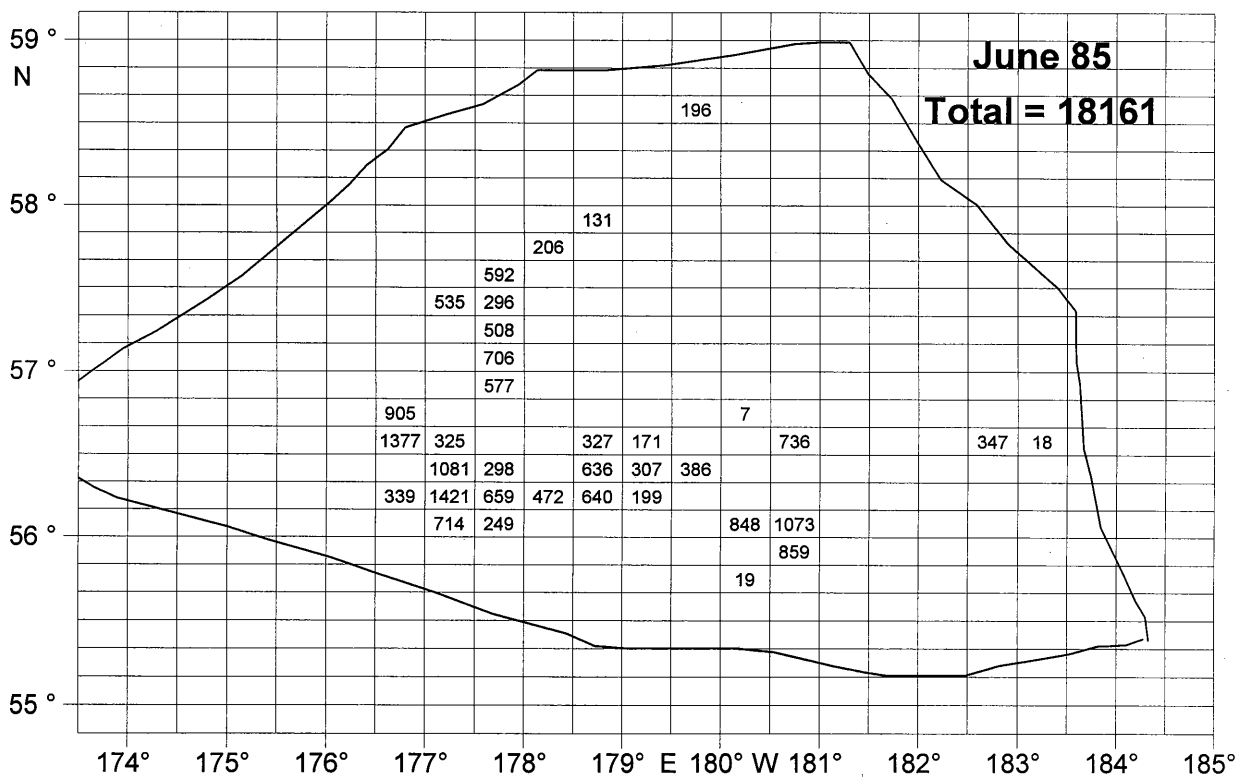
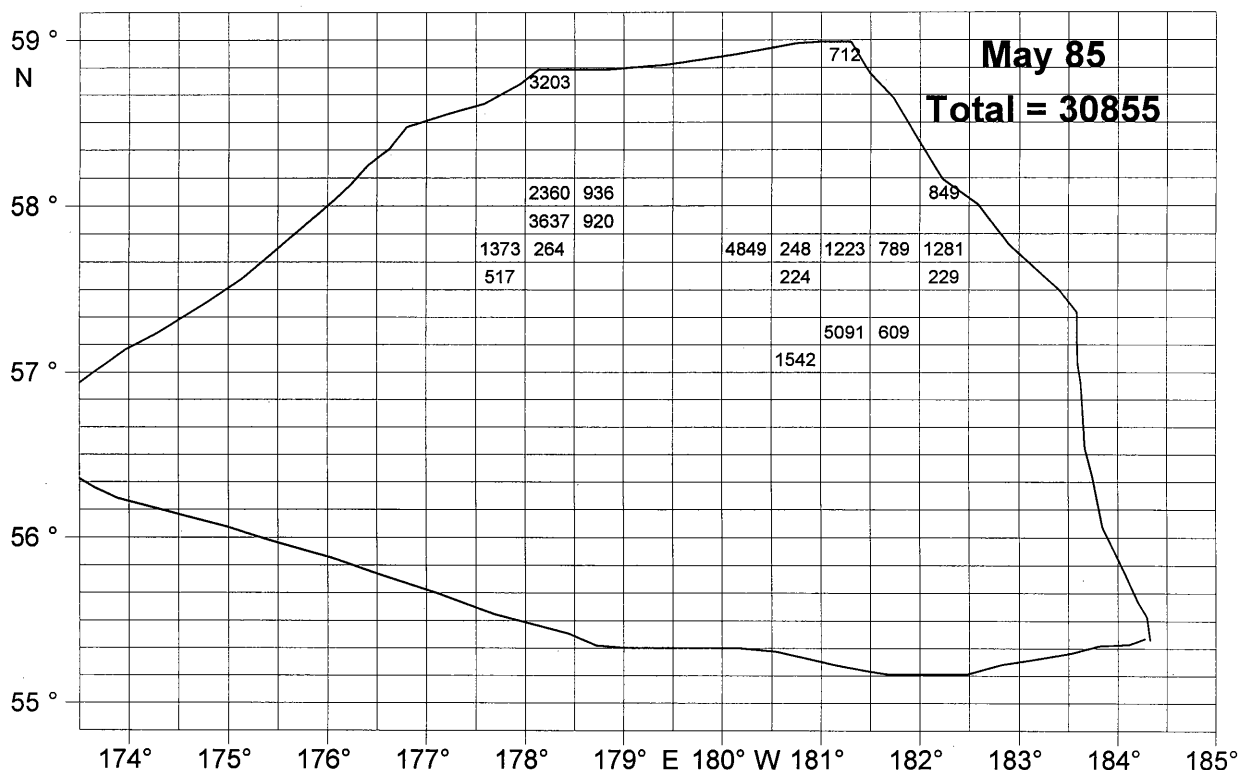


Fig. 9 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

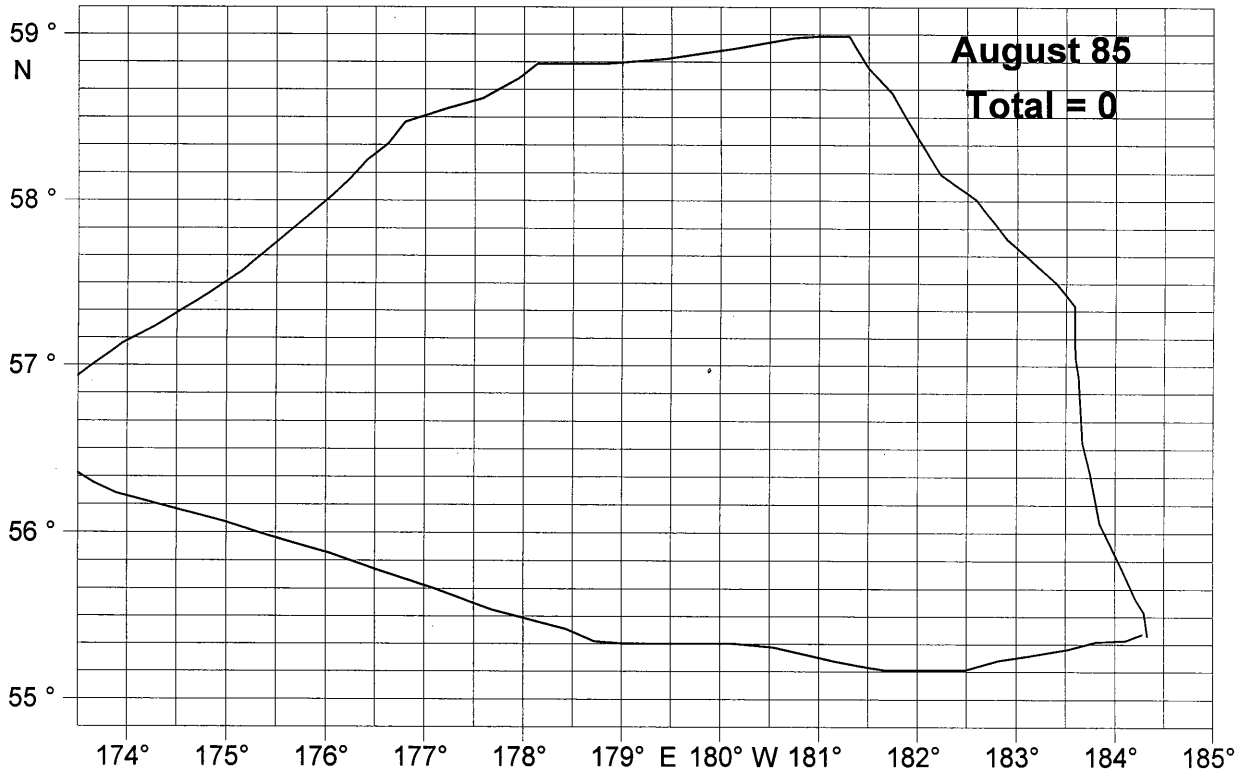
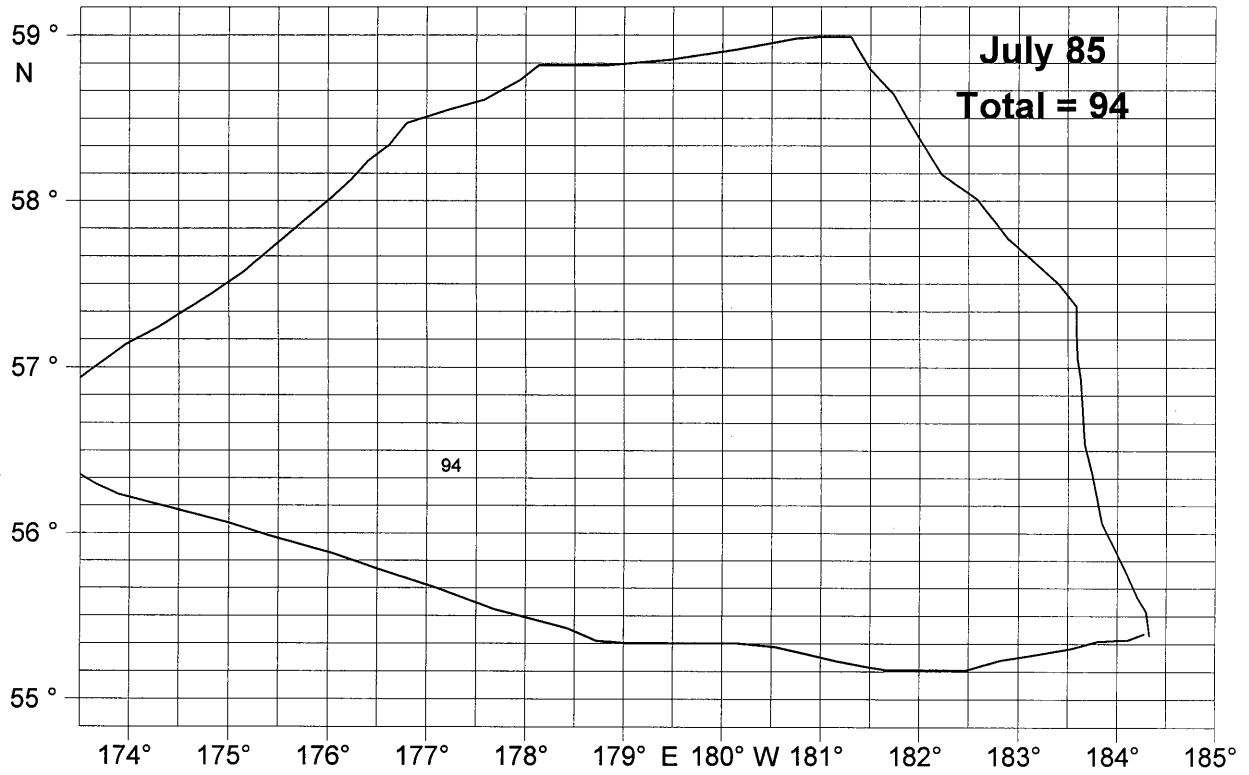


Fig. 9 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

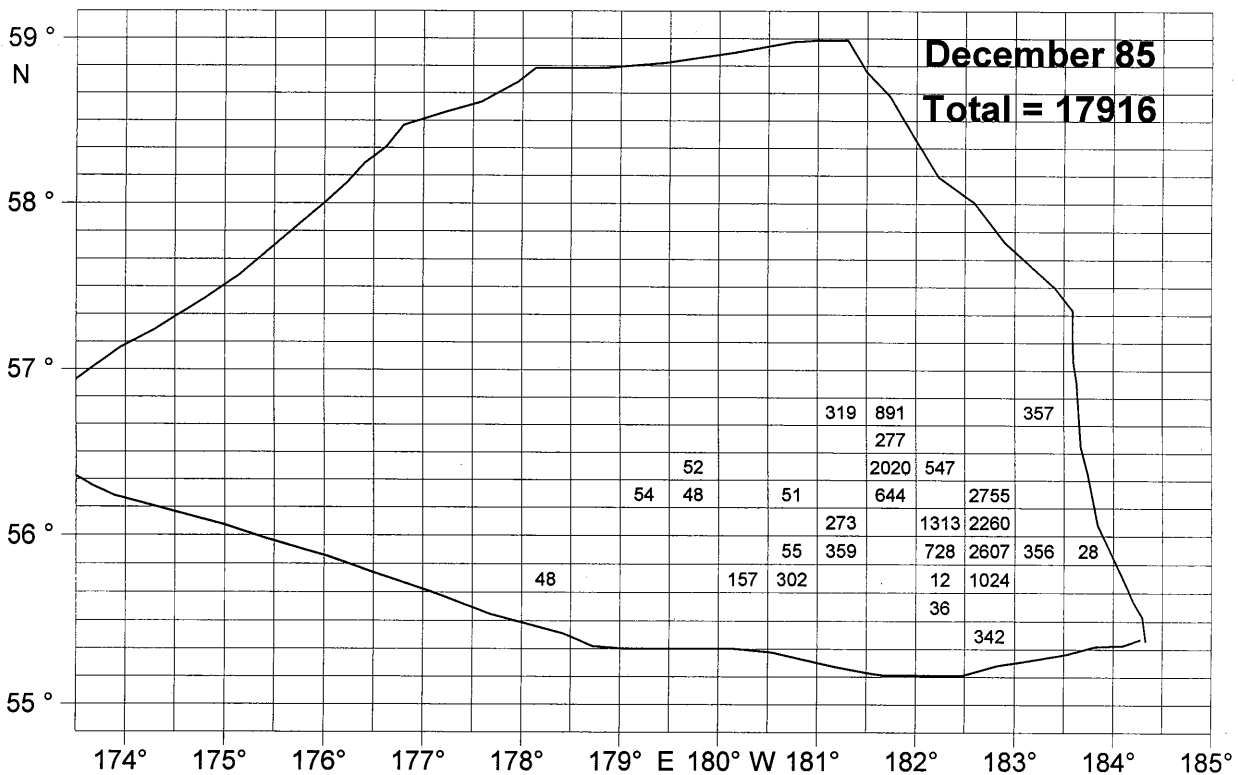
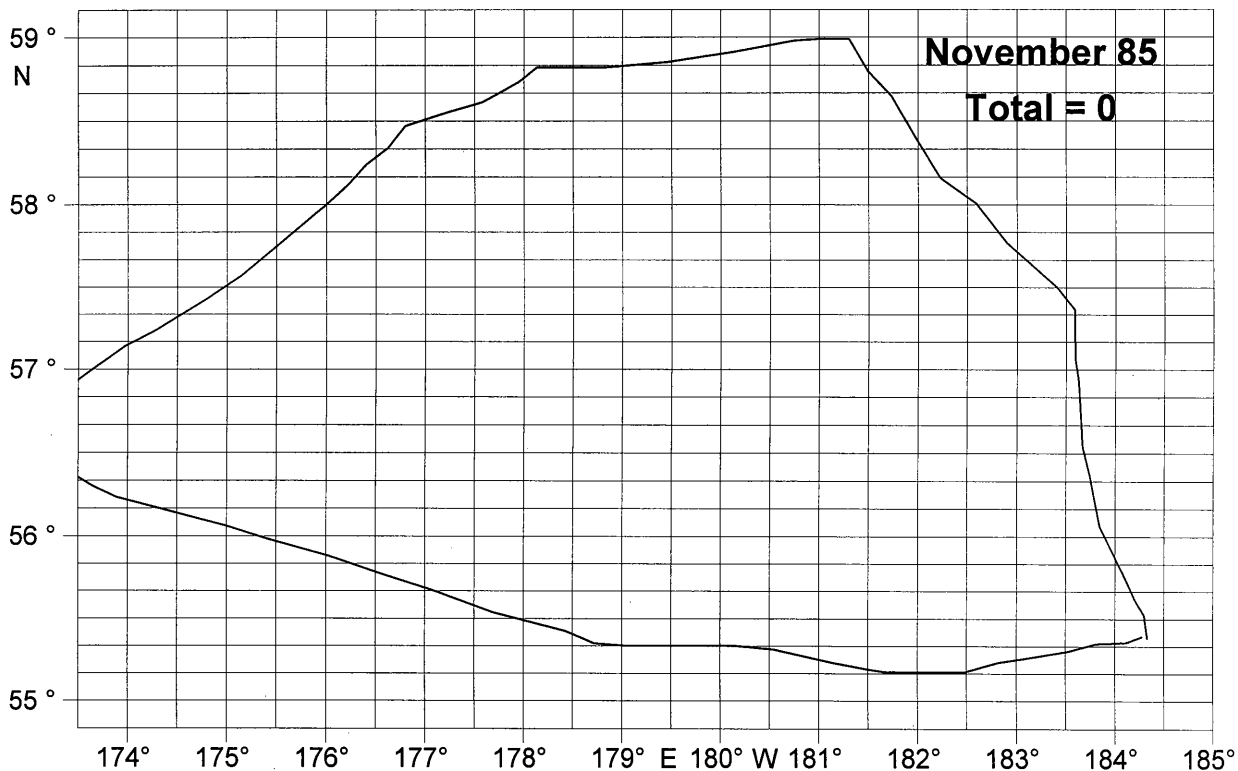


Fig. 9 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1985

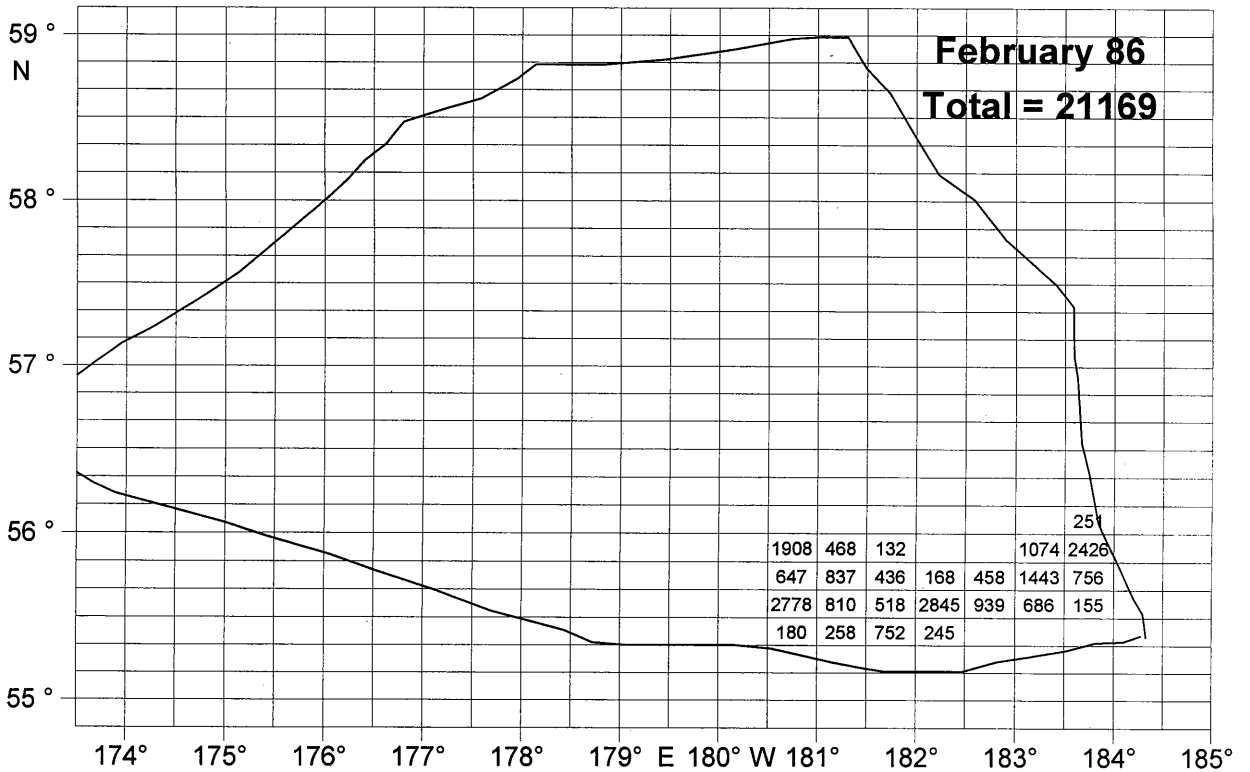
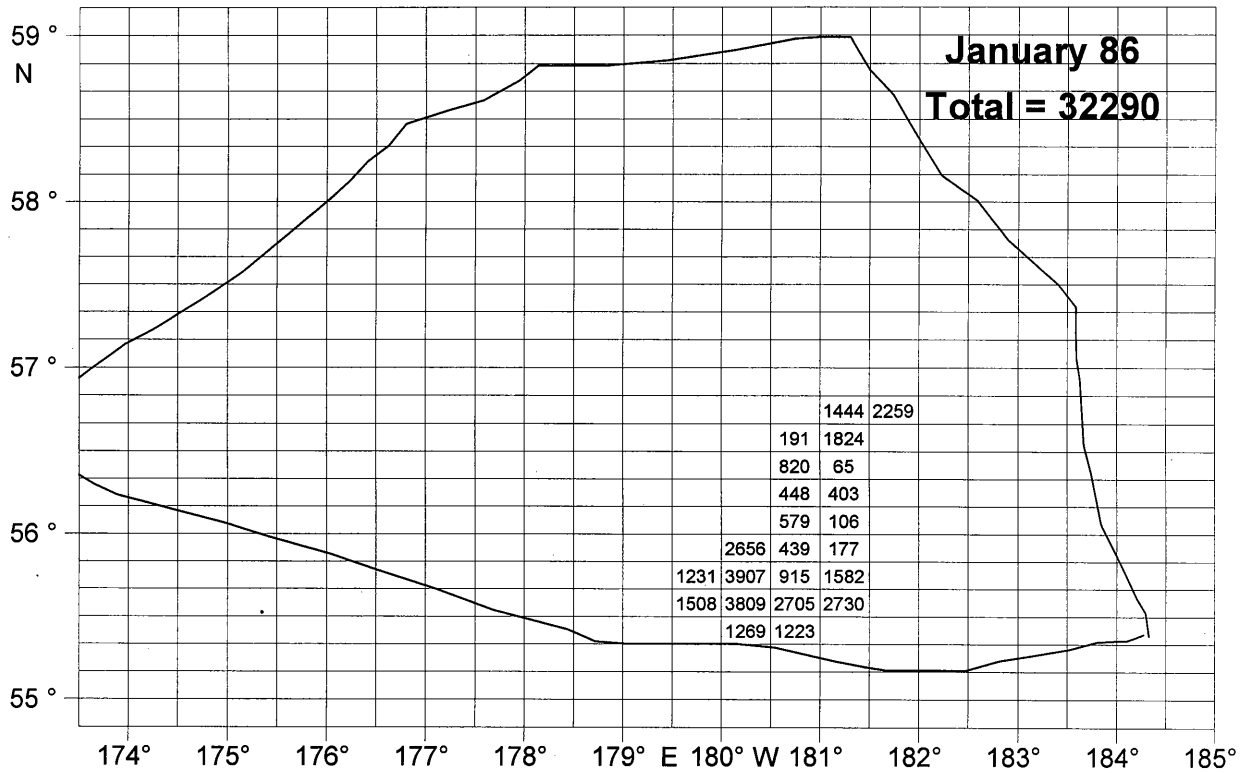


Fig. 10. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986



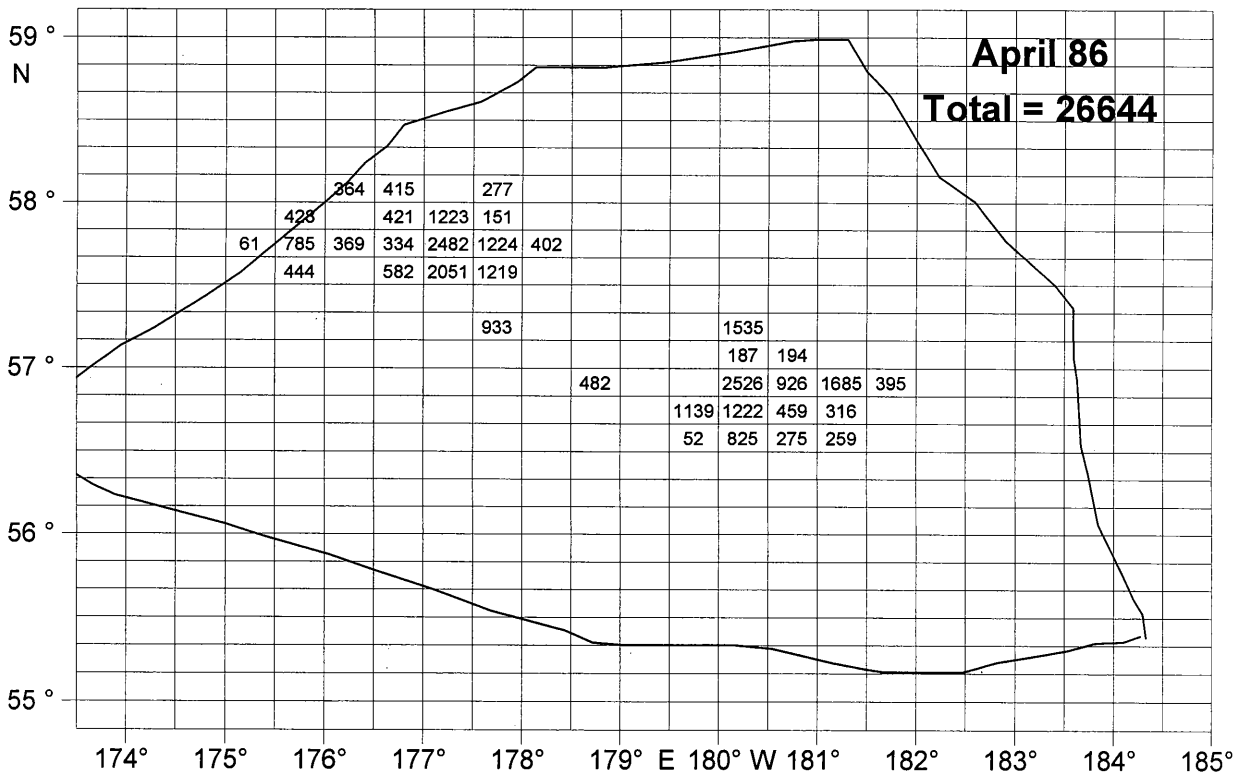
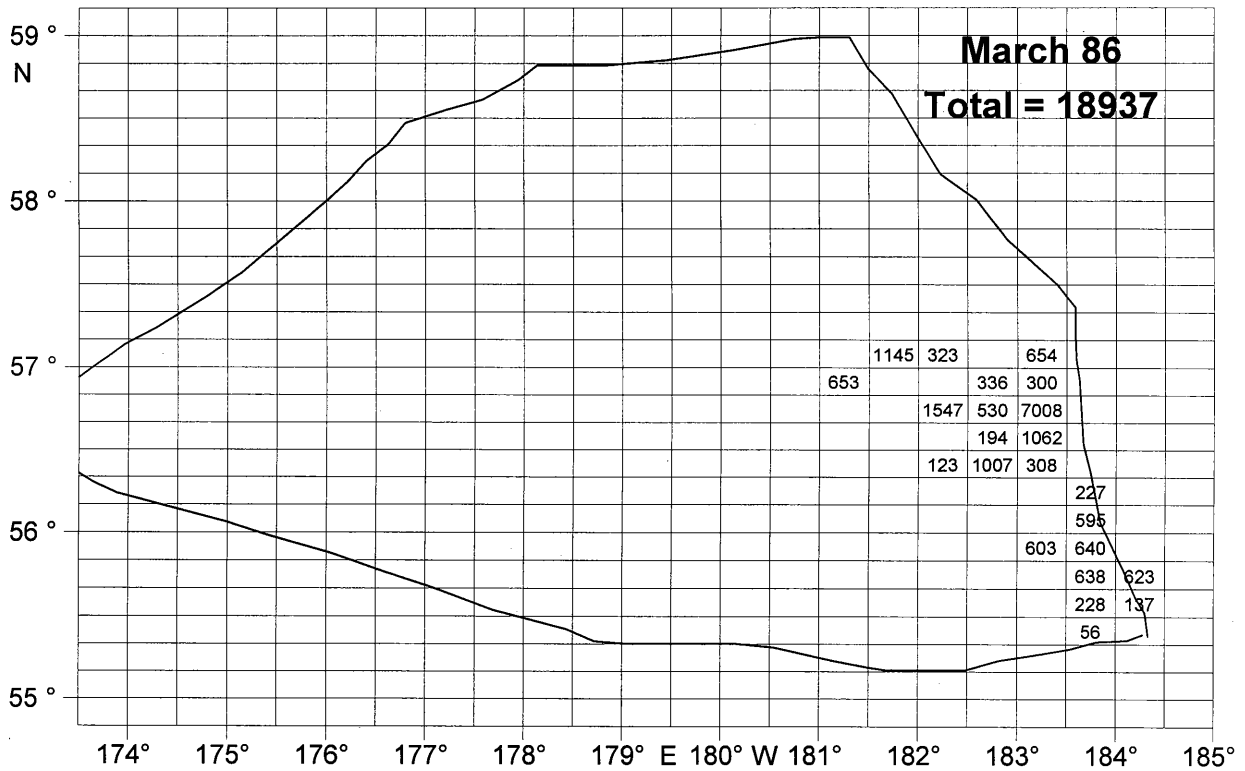


Fig. 10 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986

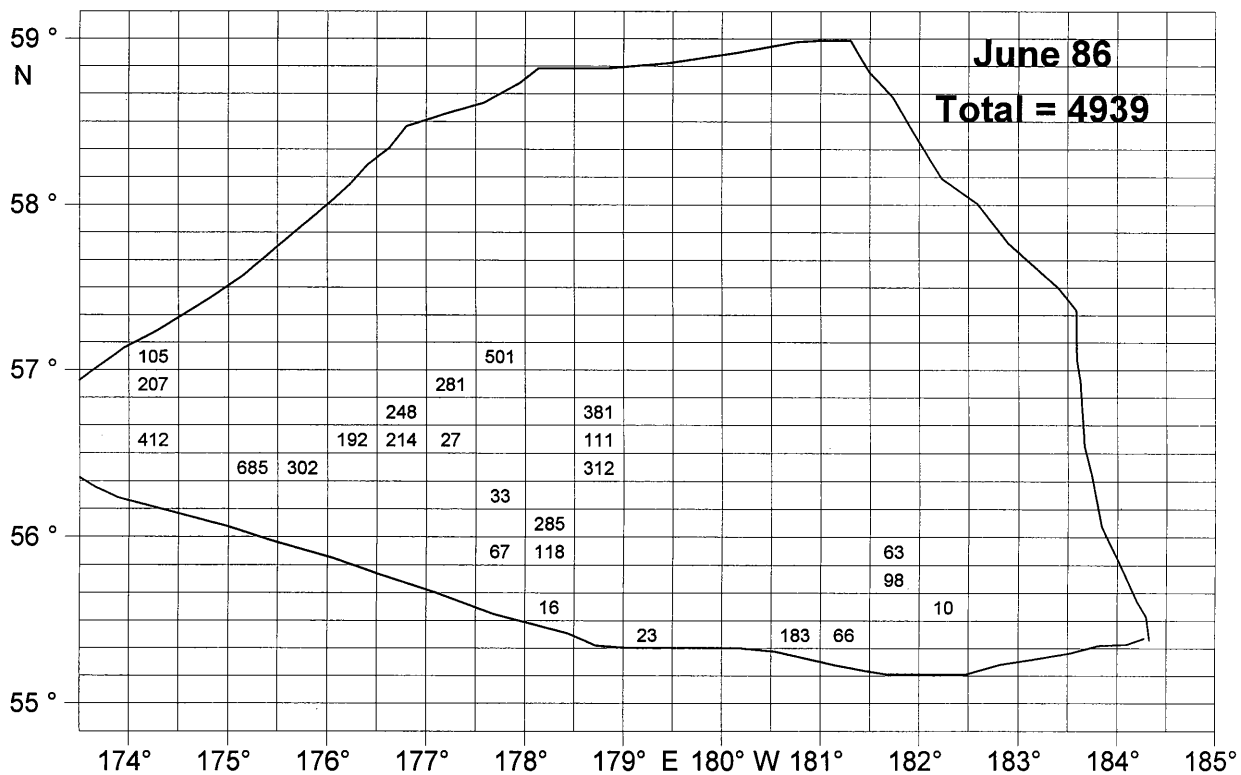
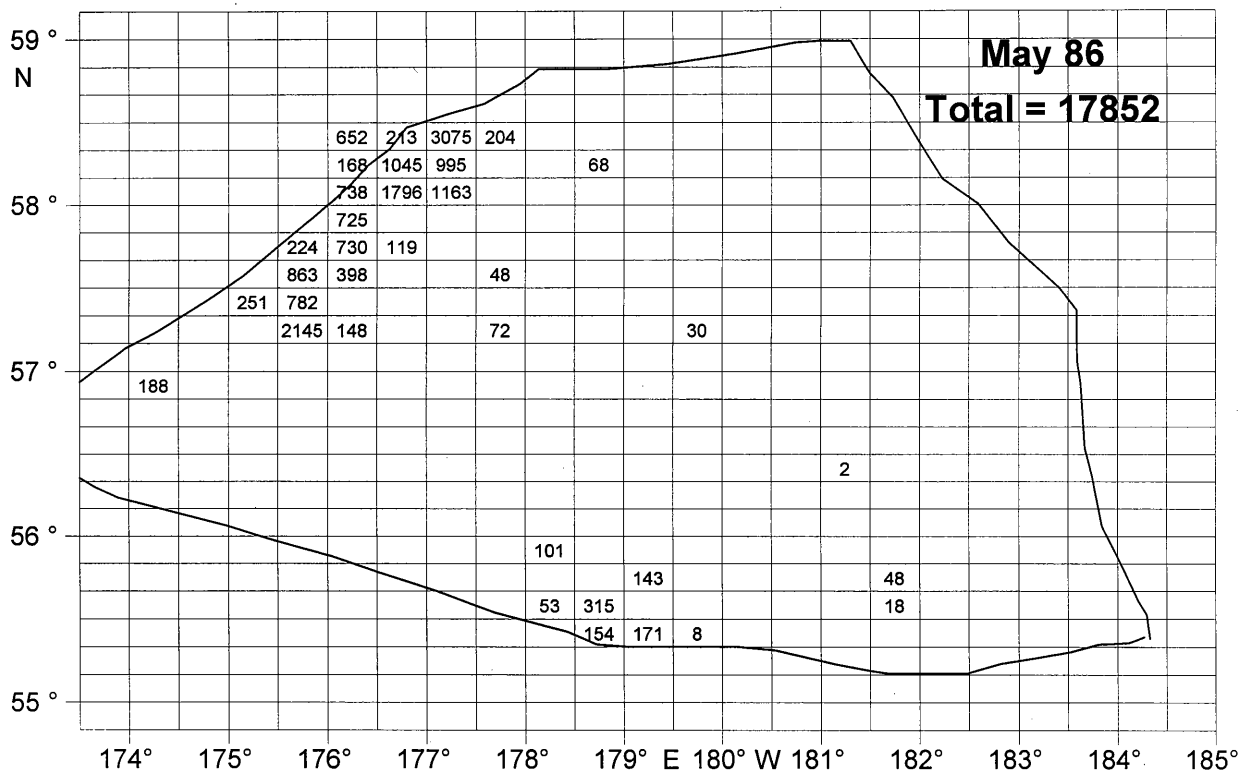


Fig. 10 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986

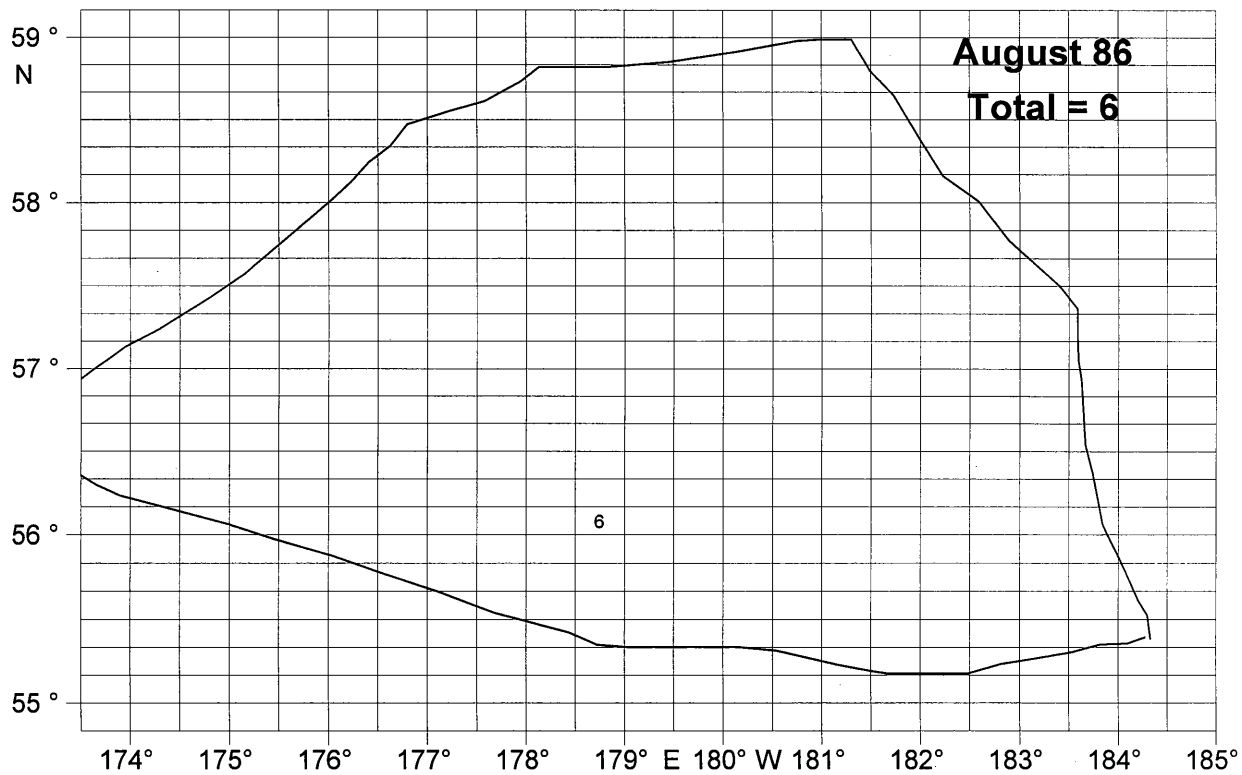
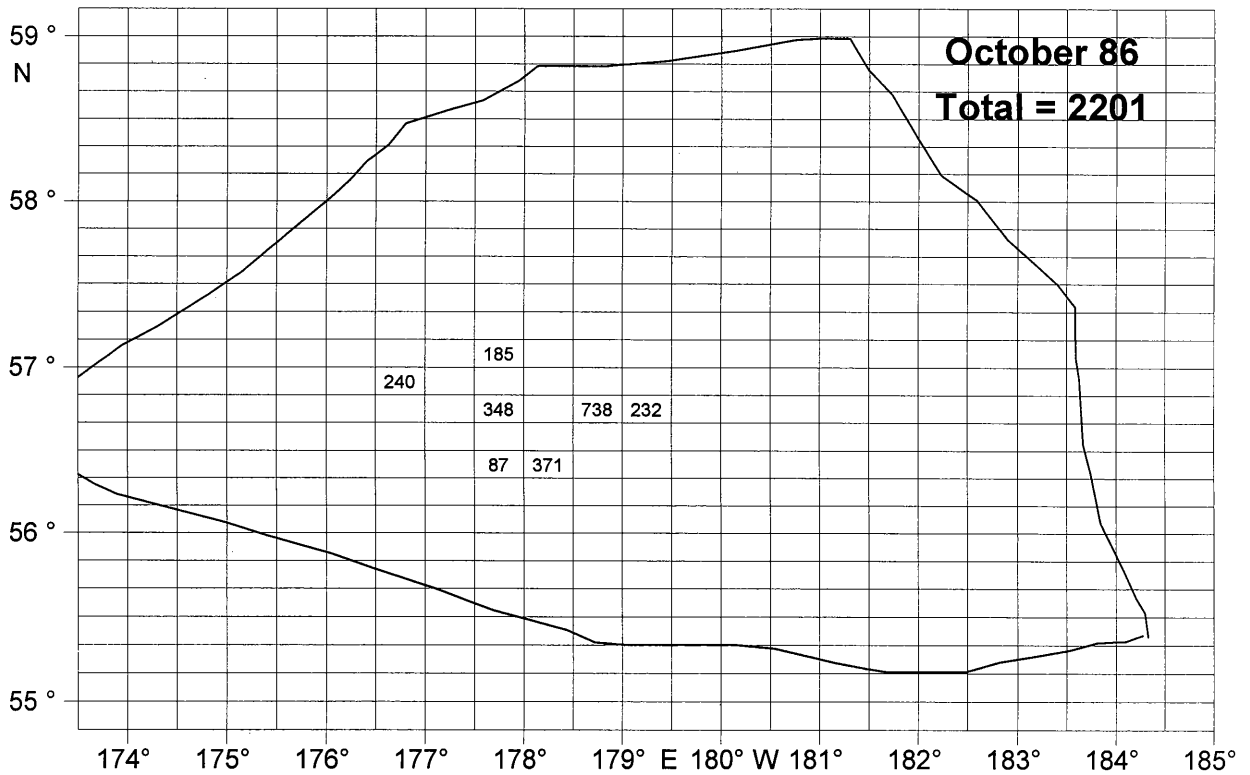
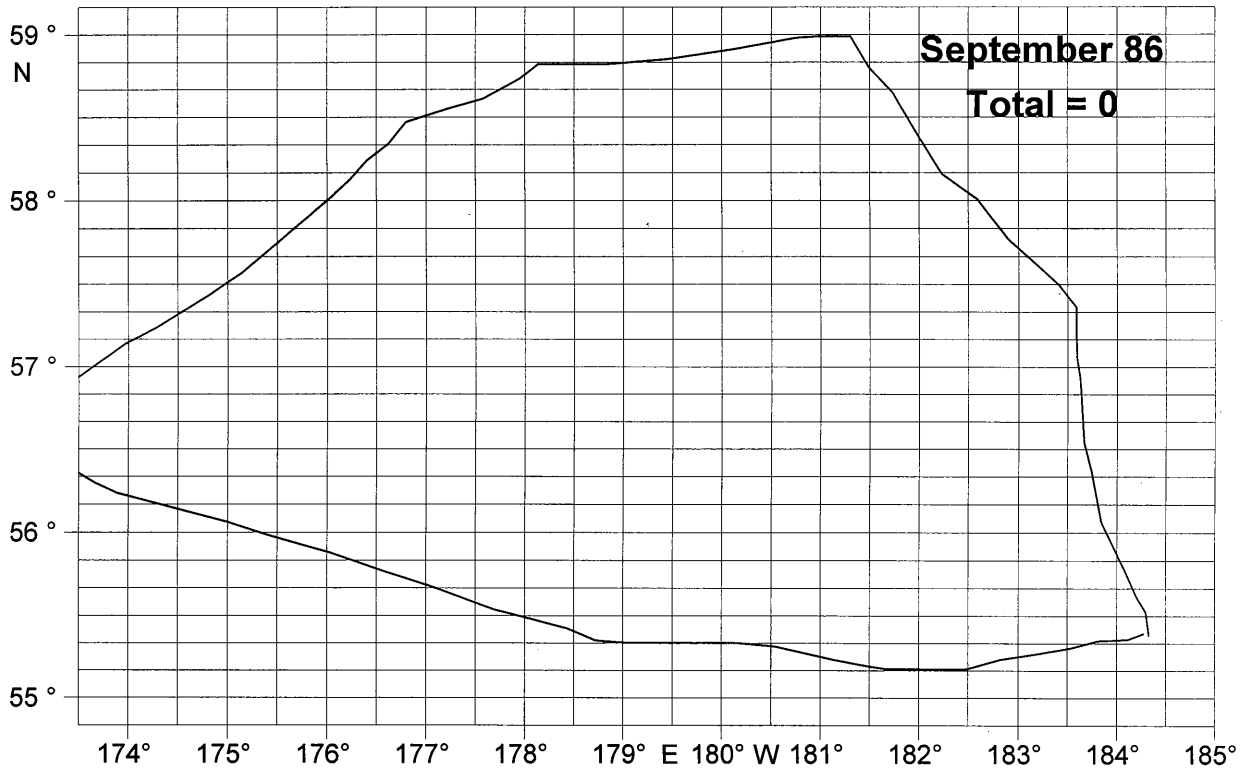


Fig. 10 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986



**Fig. 10 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10' latitude x 30' longitude) by months in 1986**

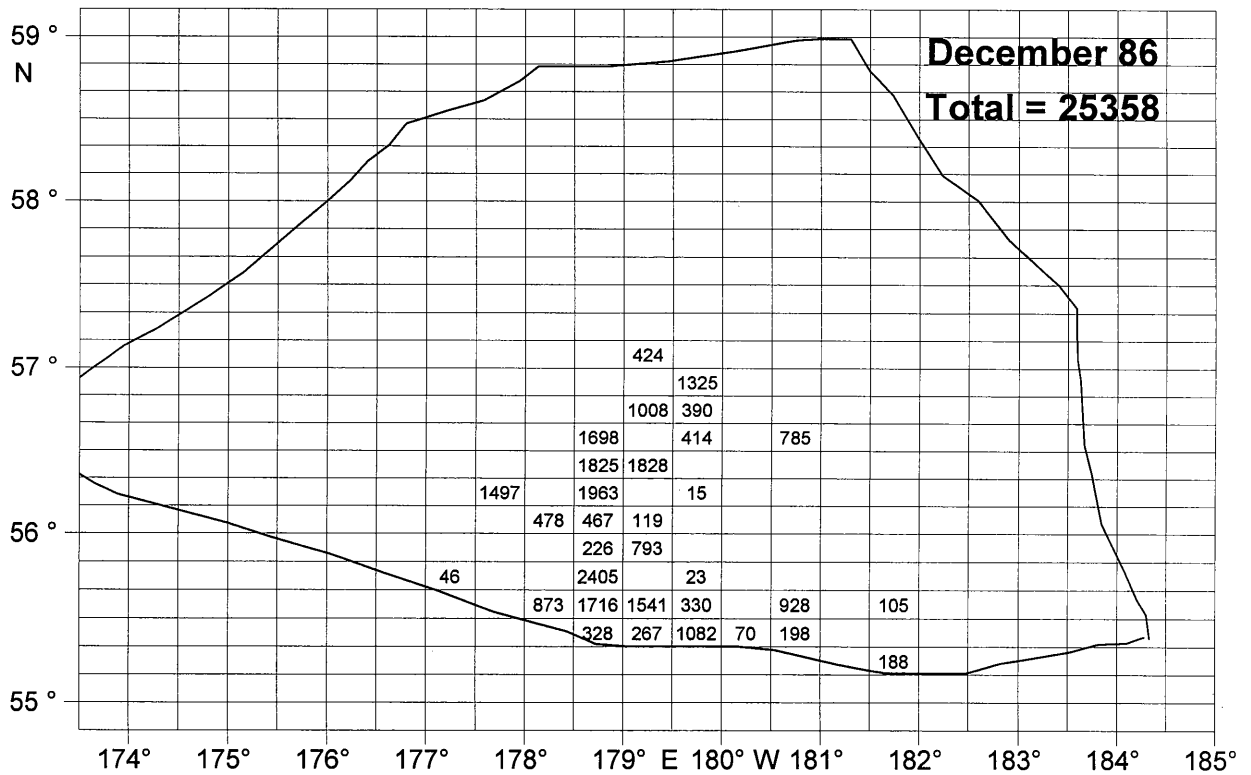
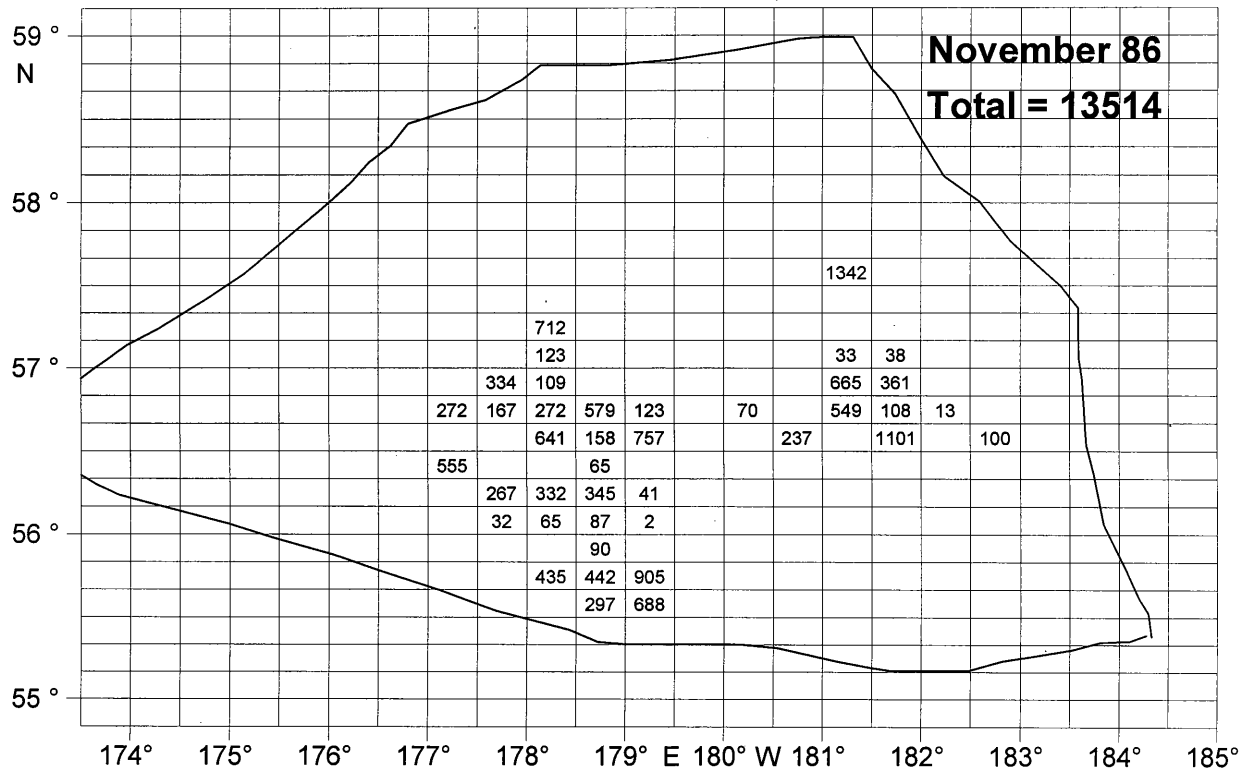


Fig. 10 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea by small statistical blocks (10° latitude x 30° longitude) by months in 1986

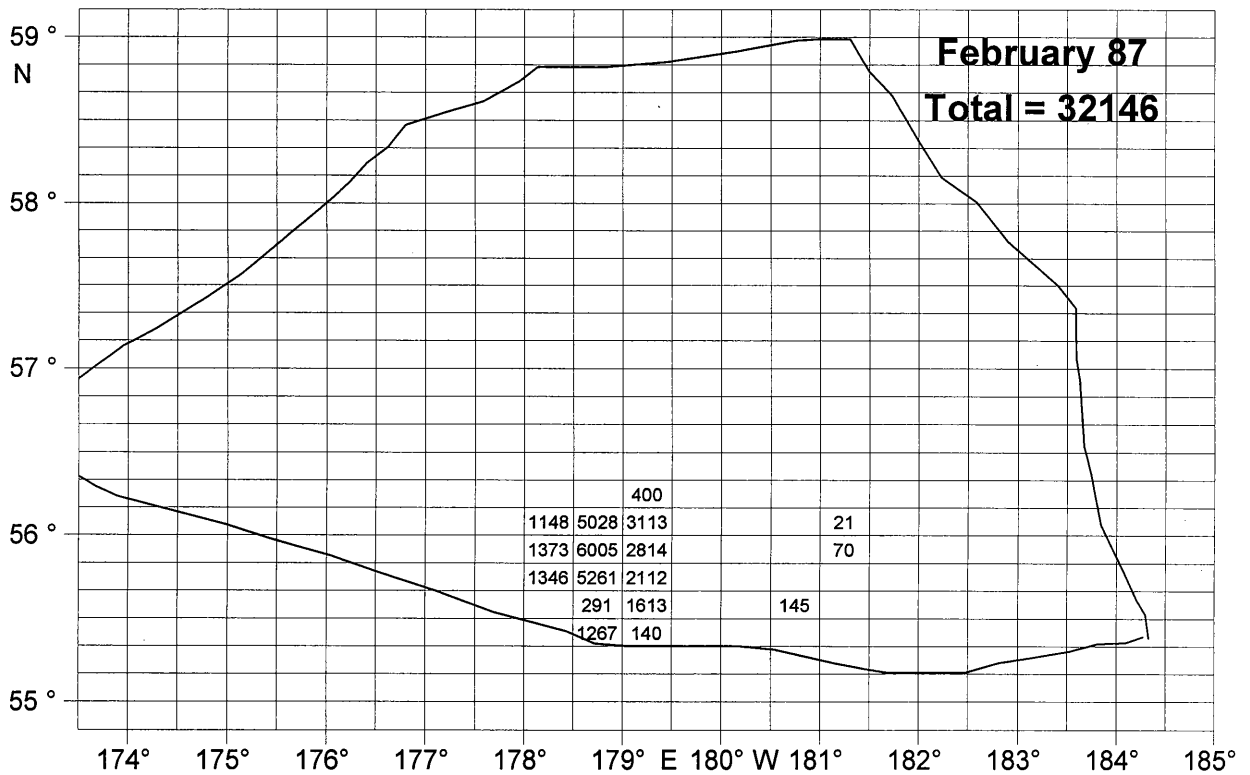
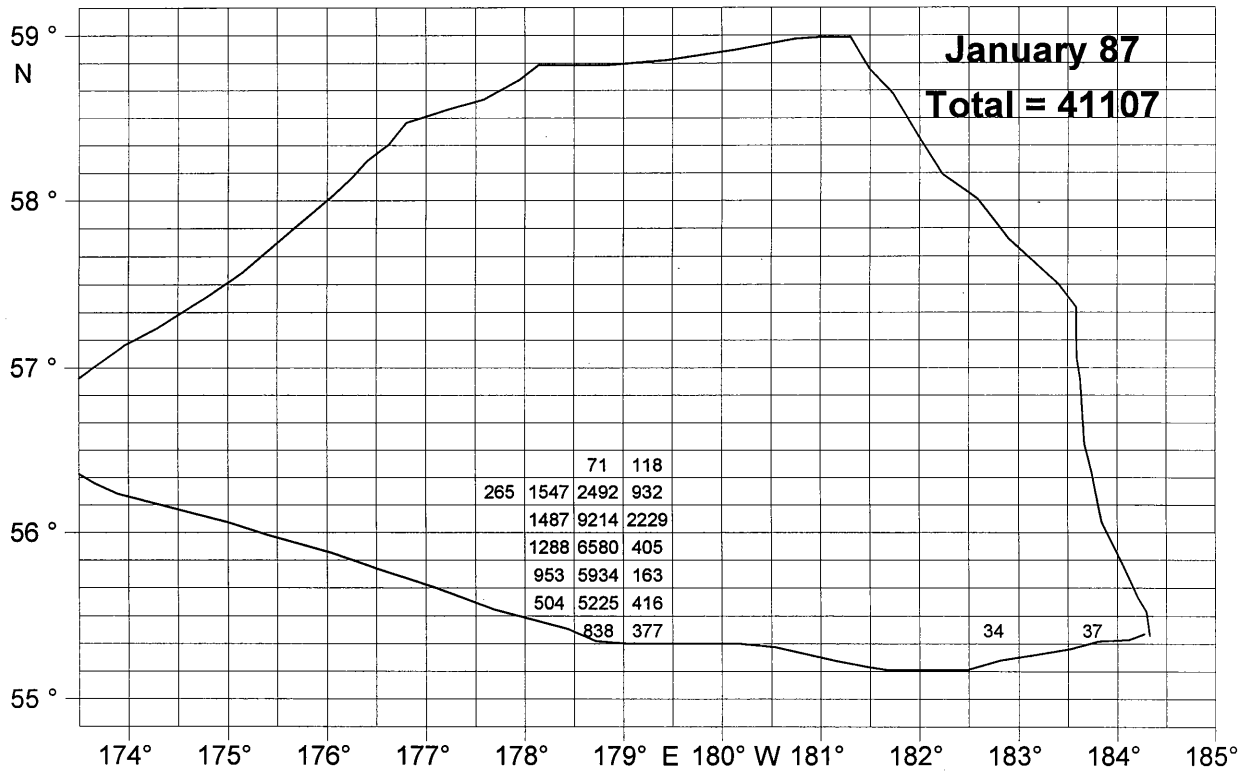


Fig. 11. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1987

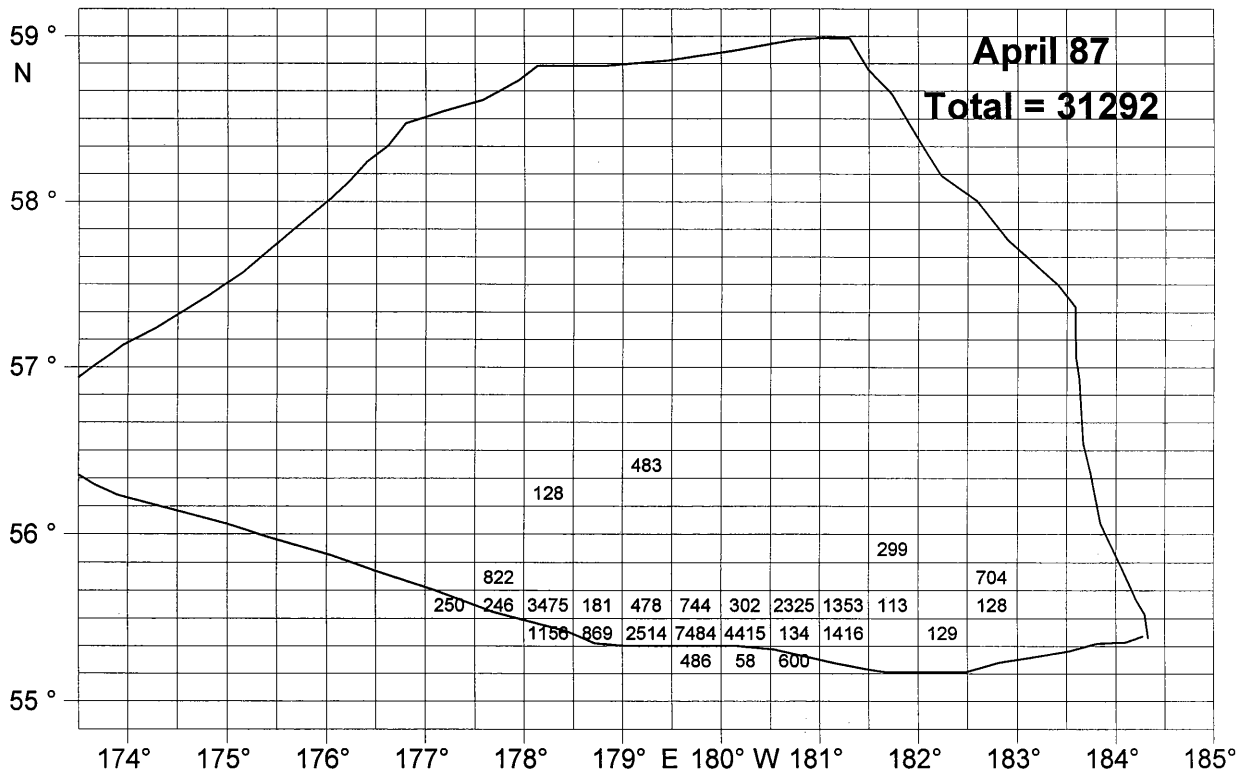
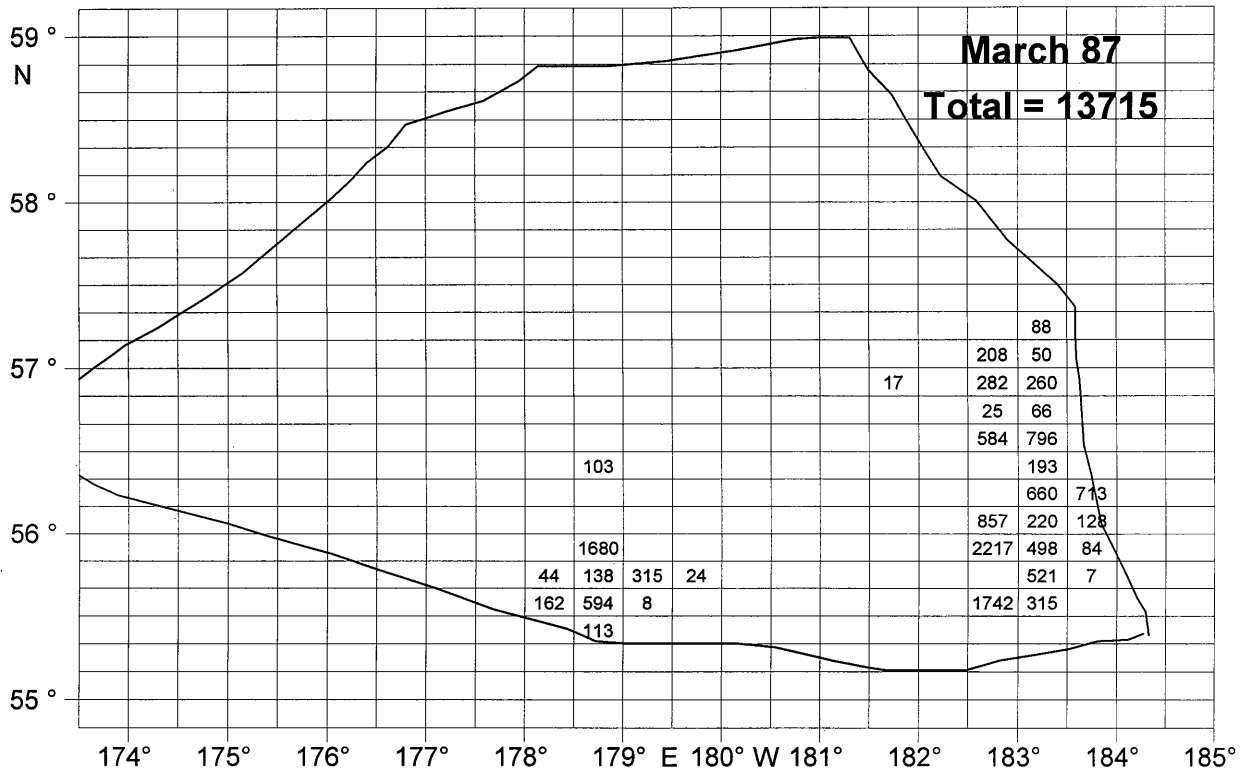


Fig. 11 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1987

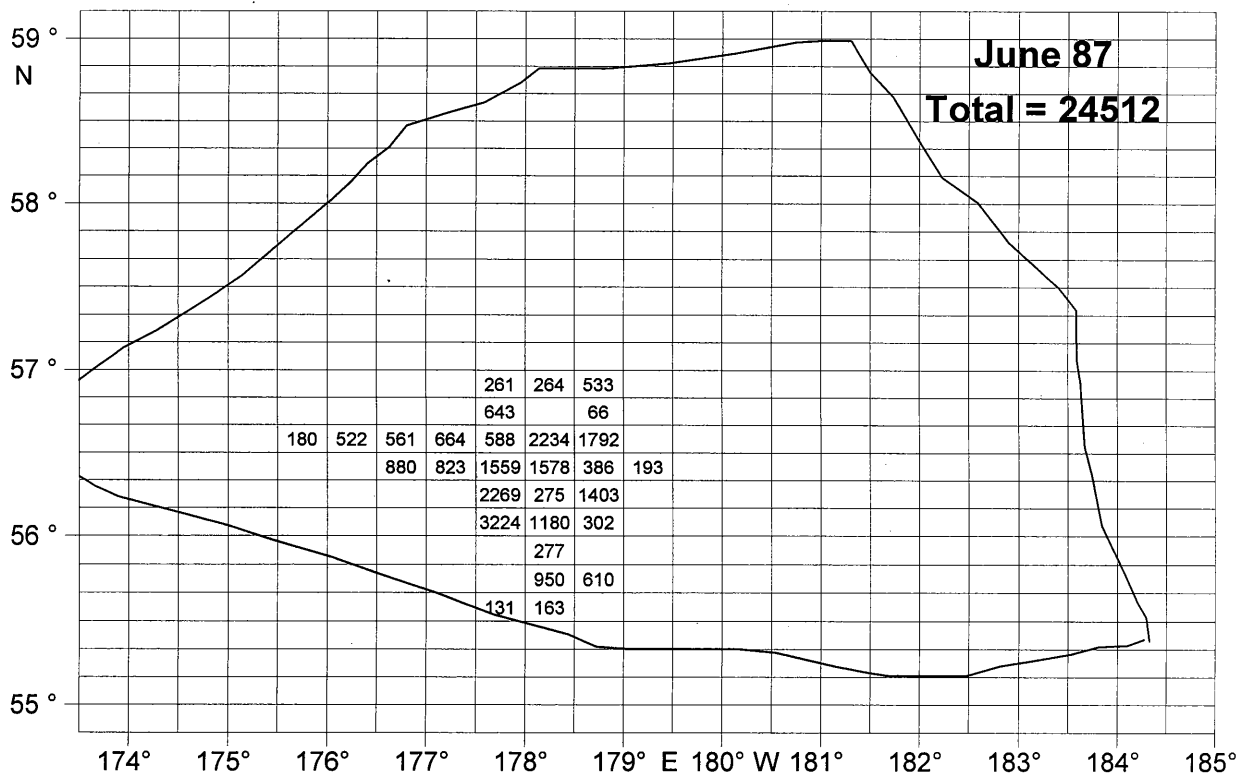
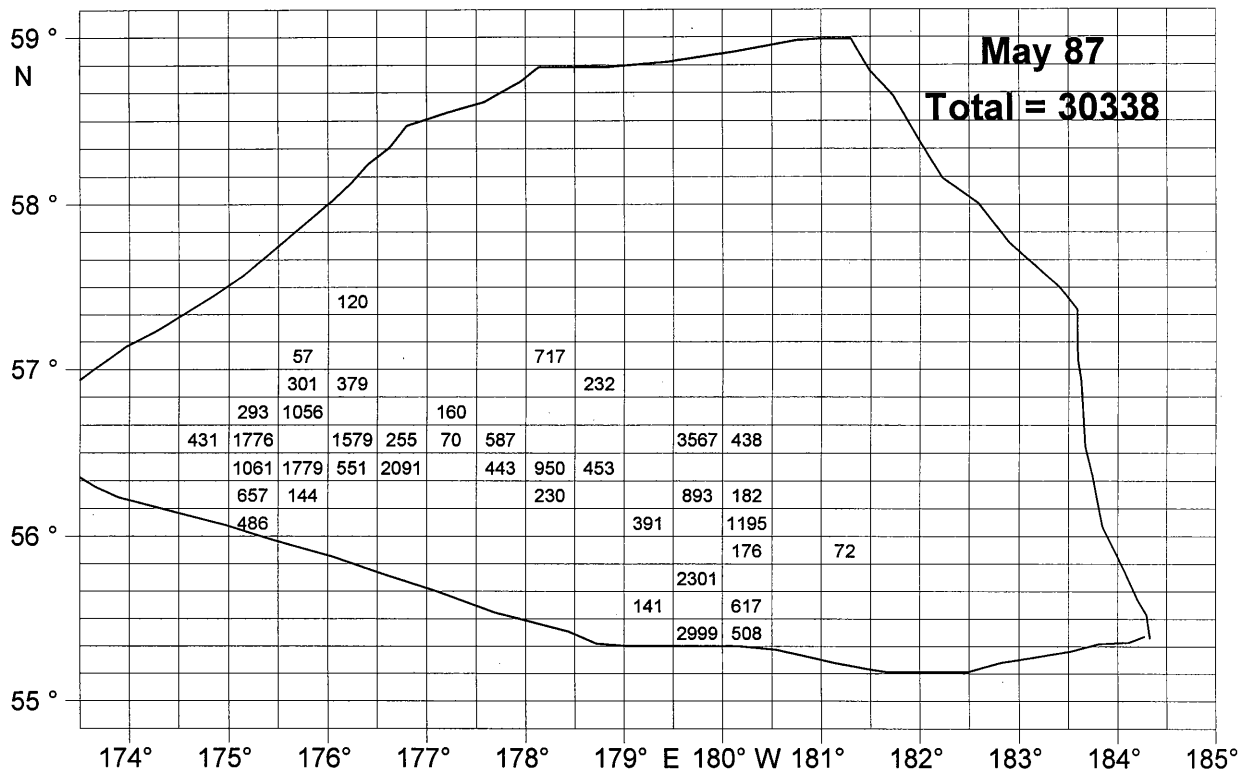


Fig. 11 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1987



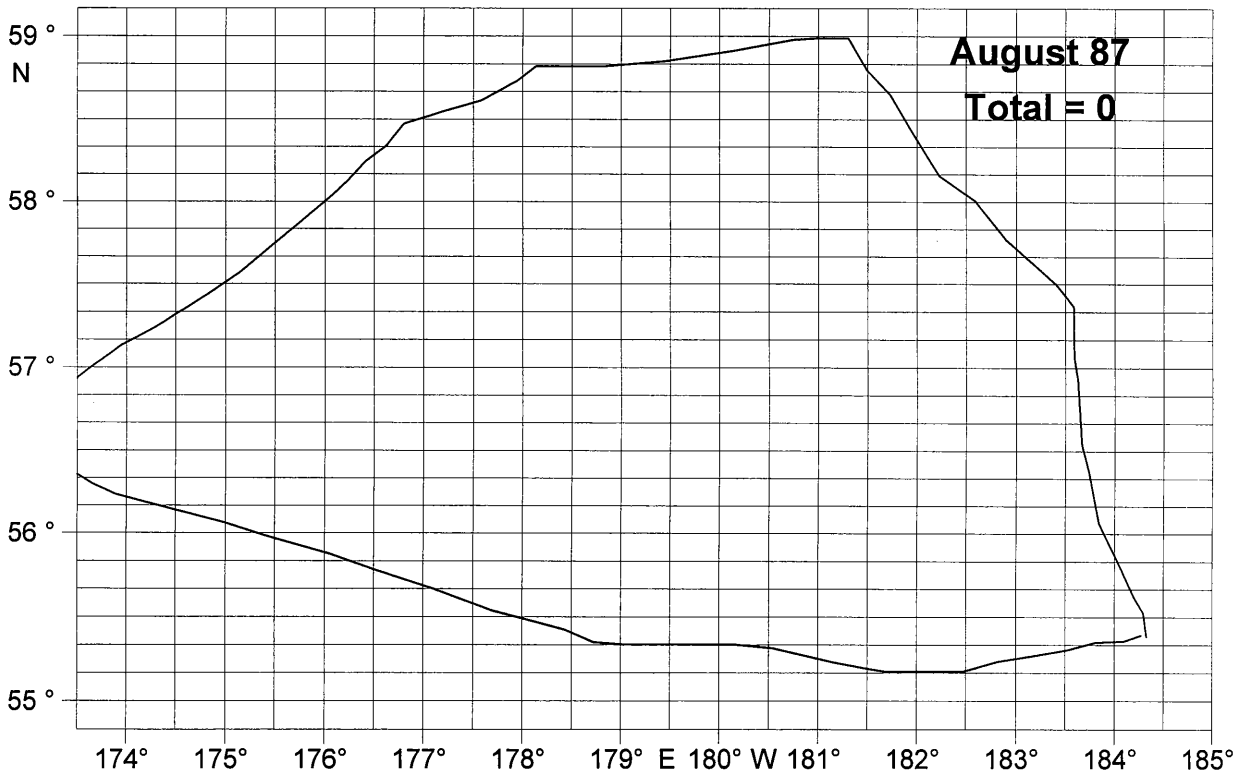


Fig. 11 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1987

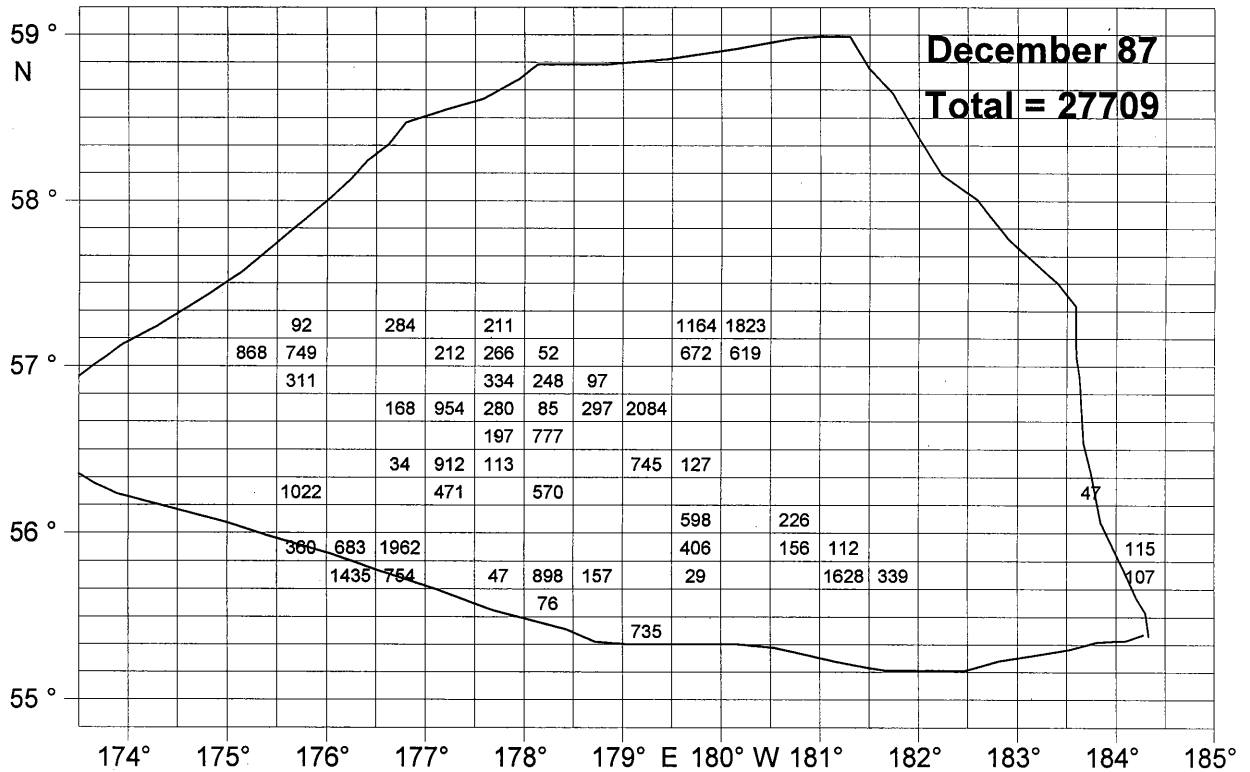
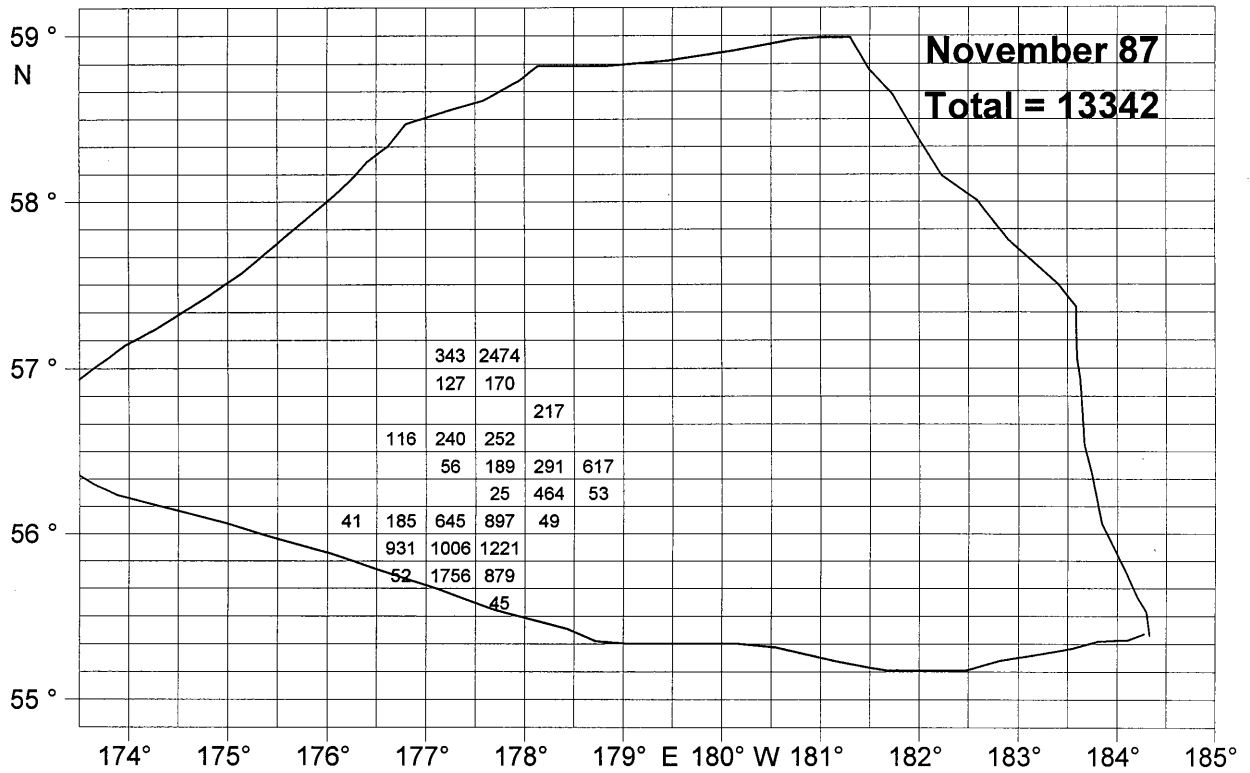


Fig. 11 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1987



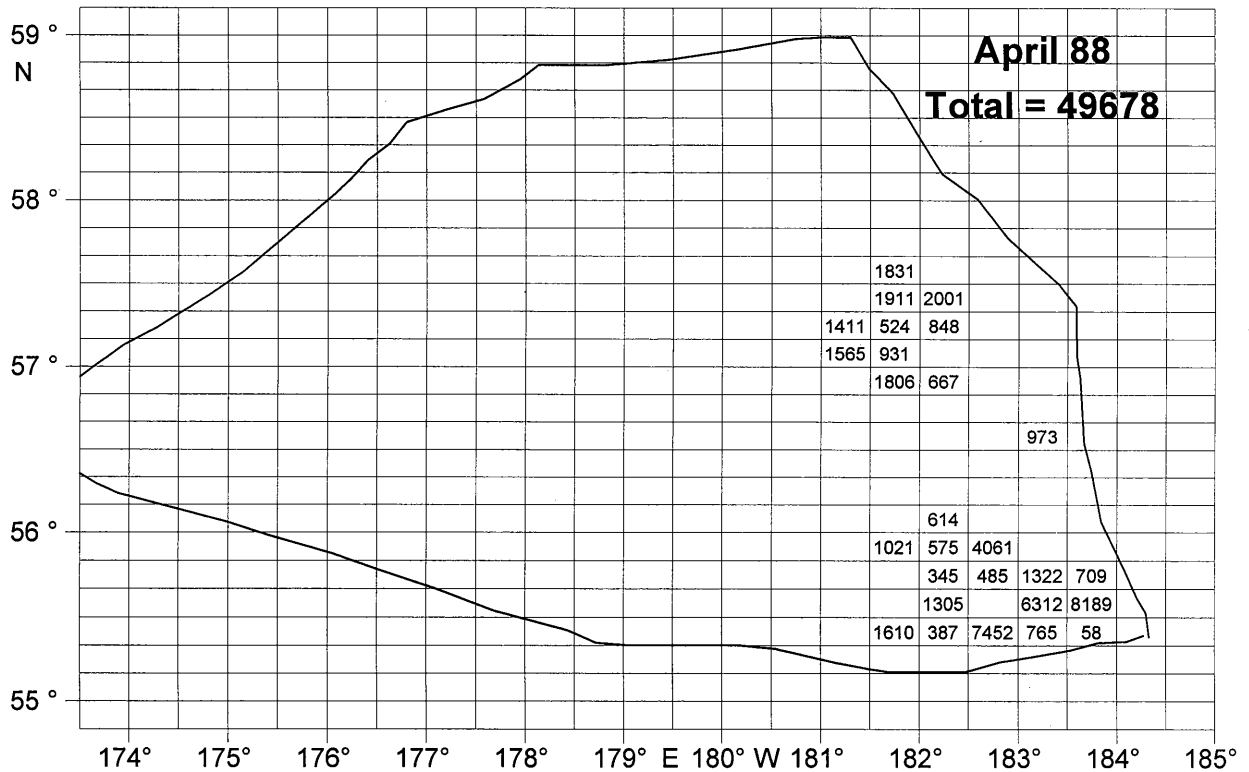
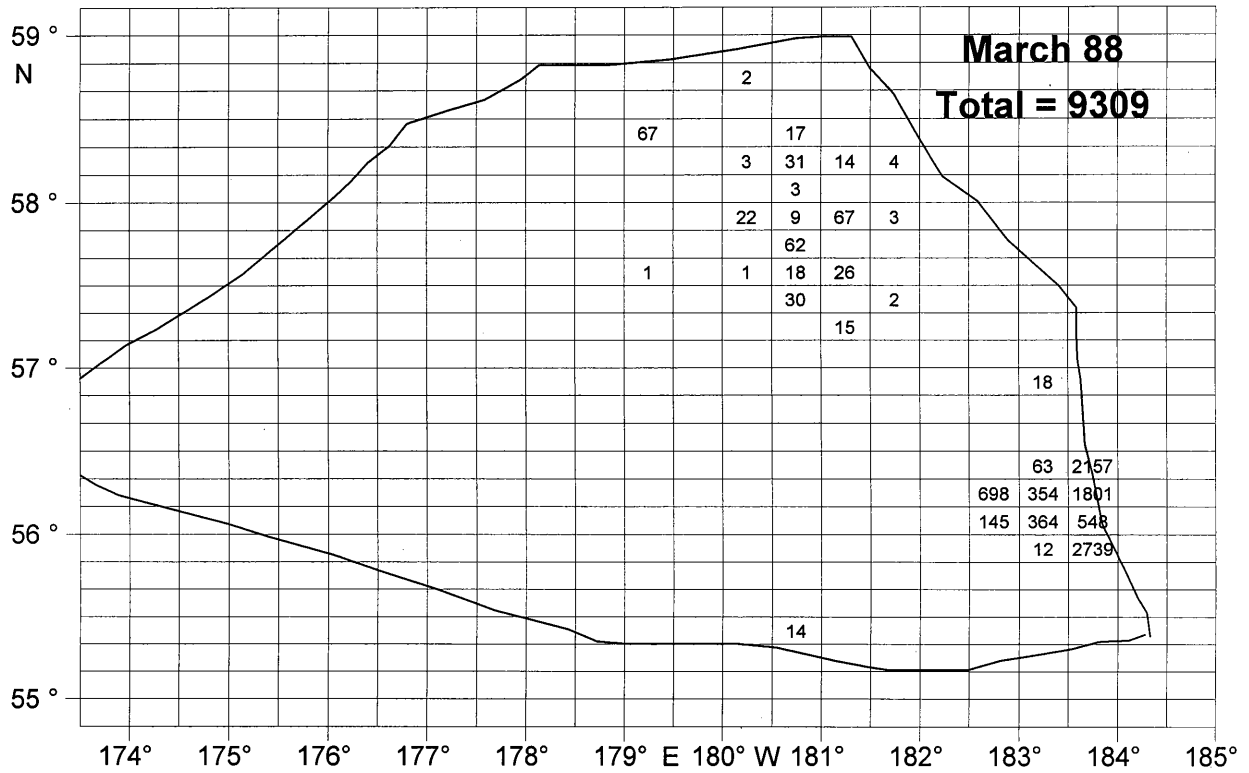


Fig. 12 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1988

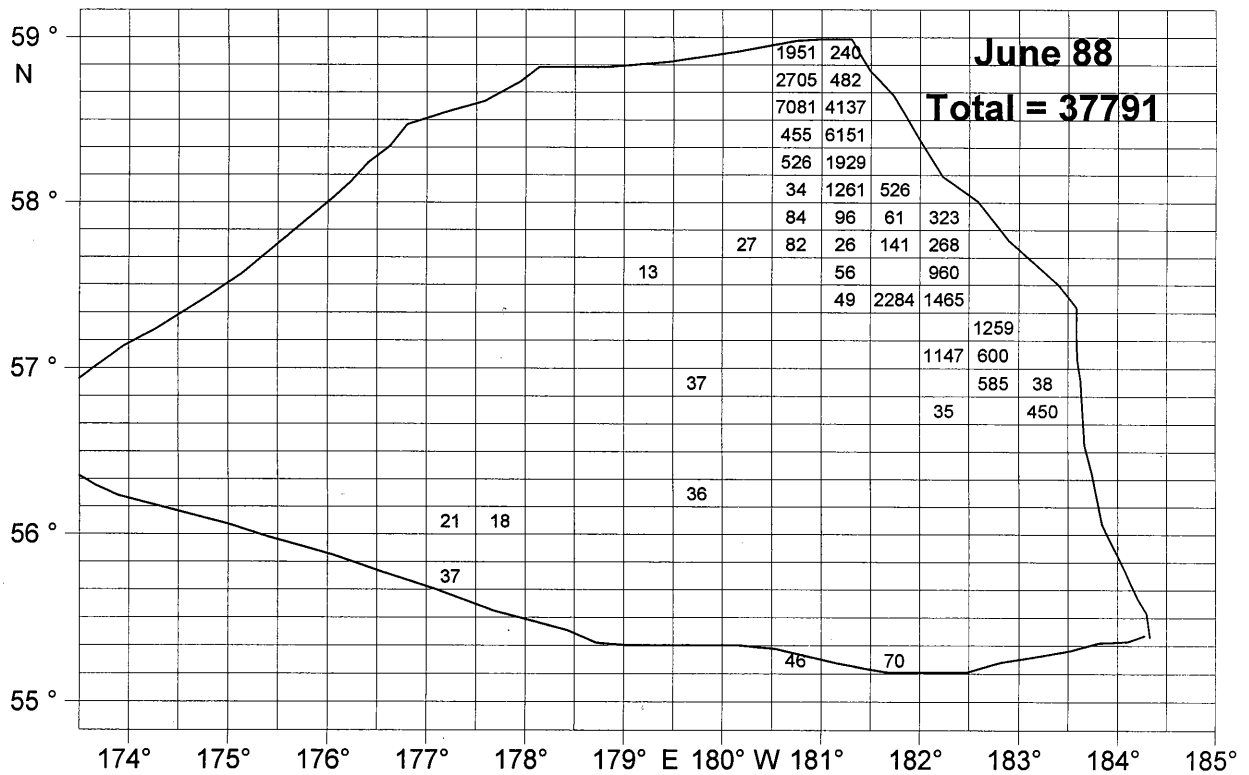
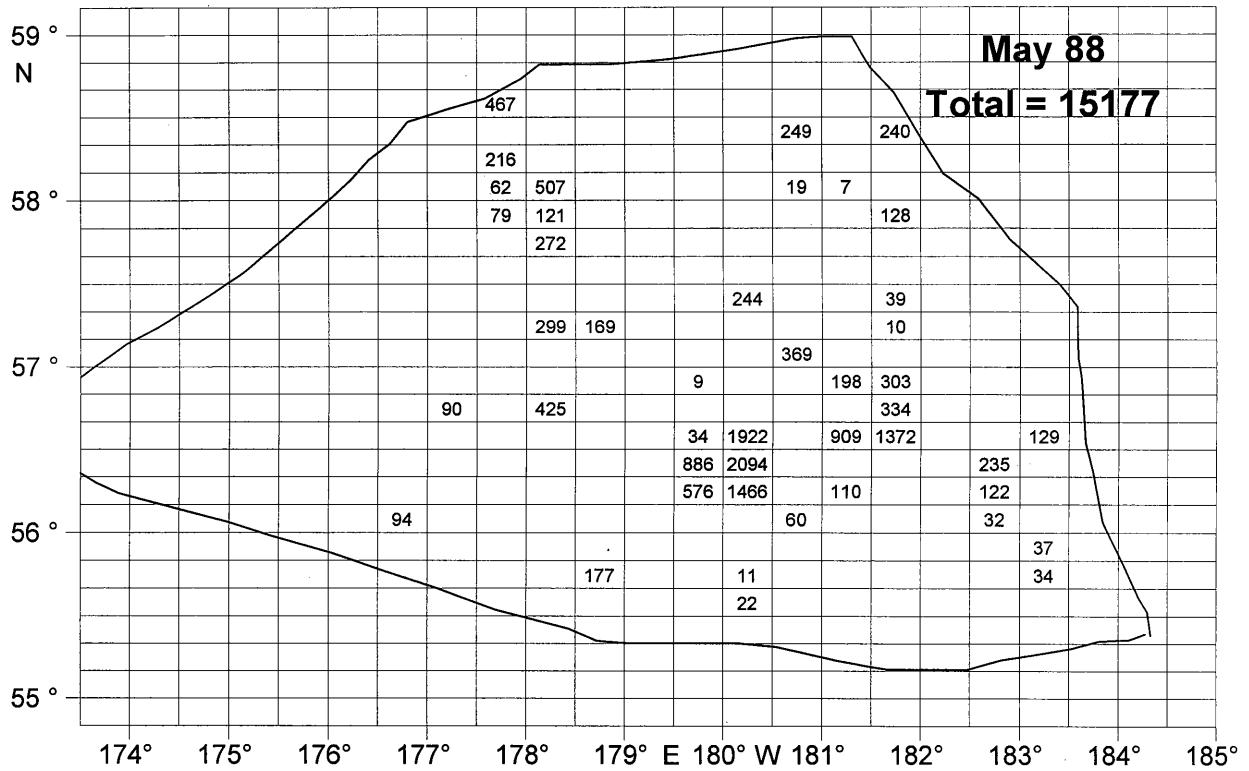
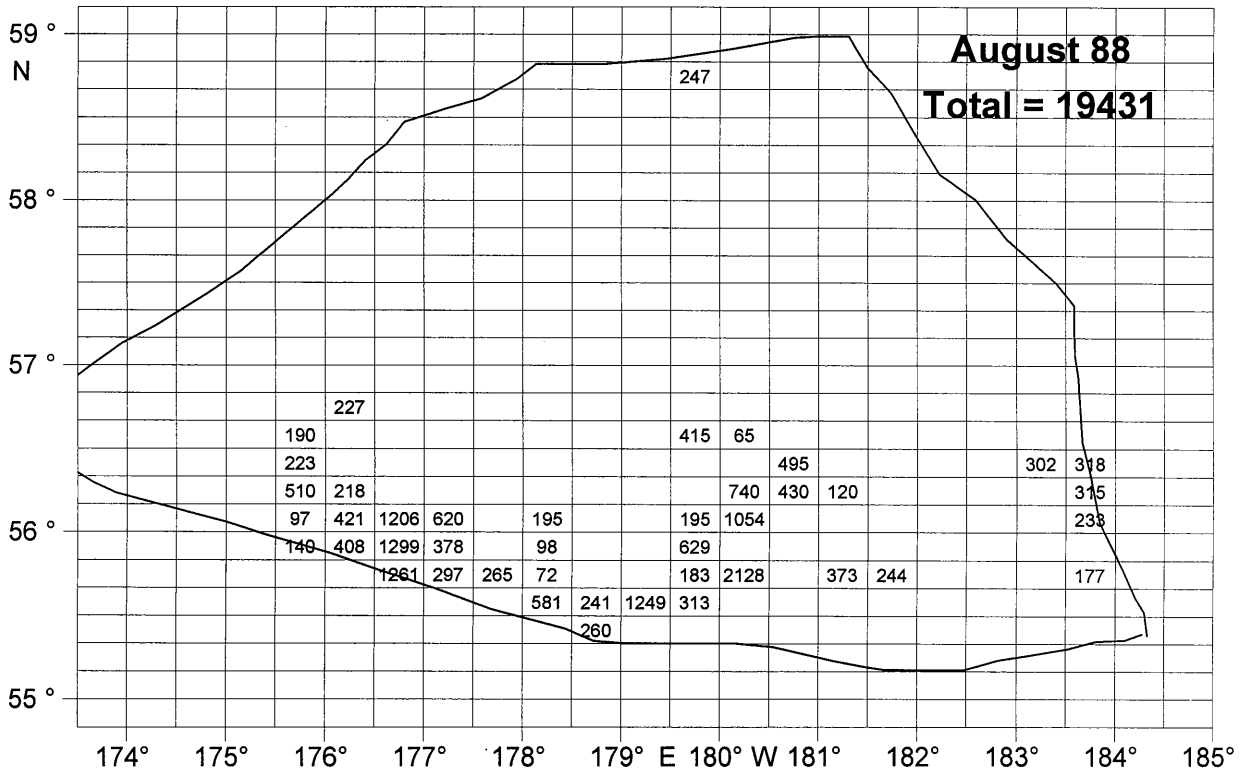
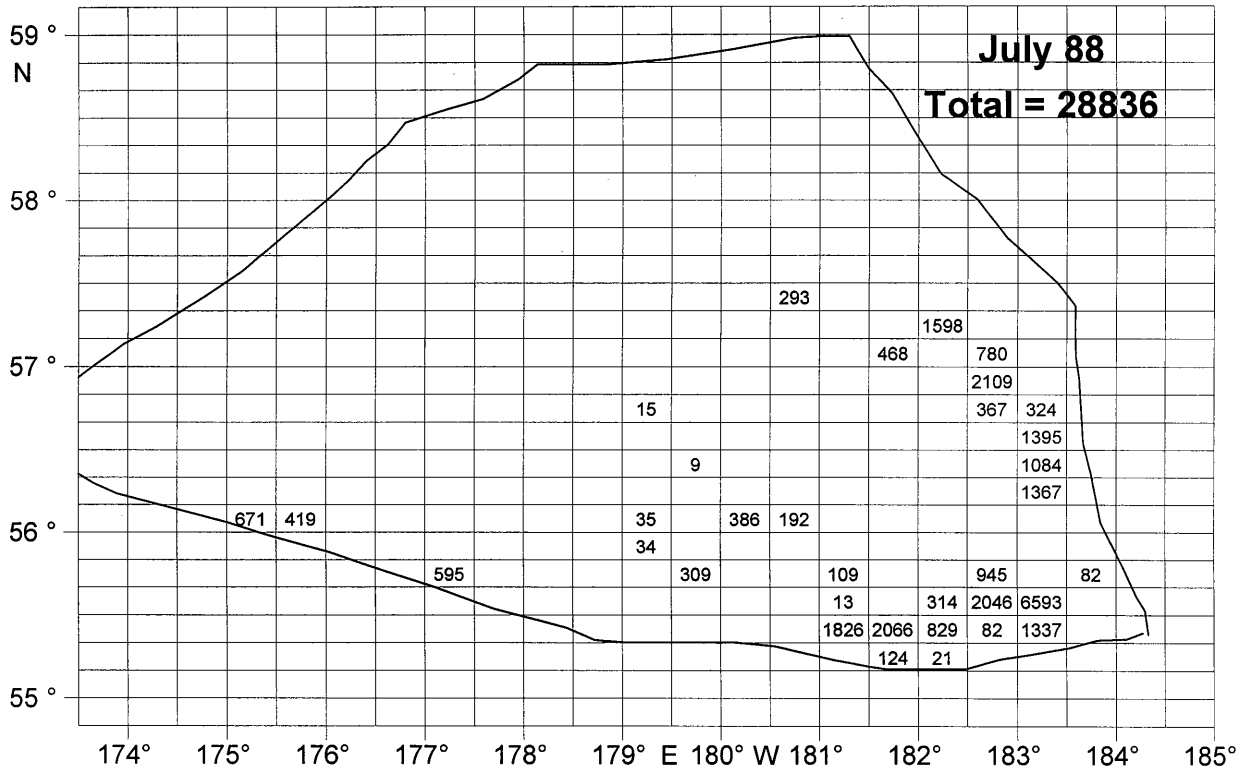


Fig. 12 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1988



**Fig. 12 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1988**

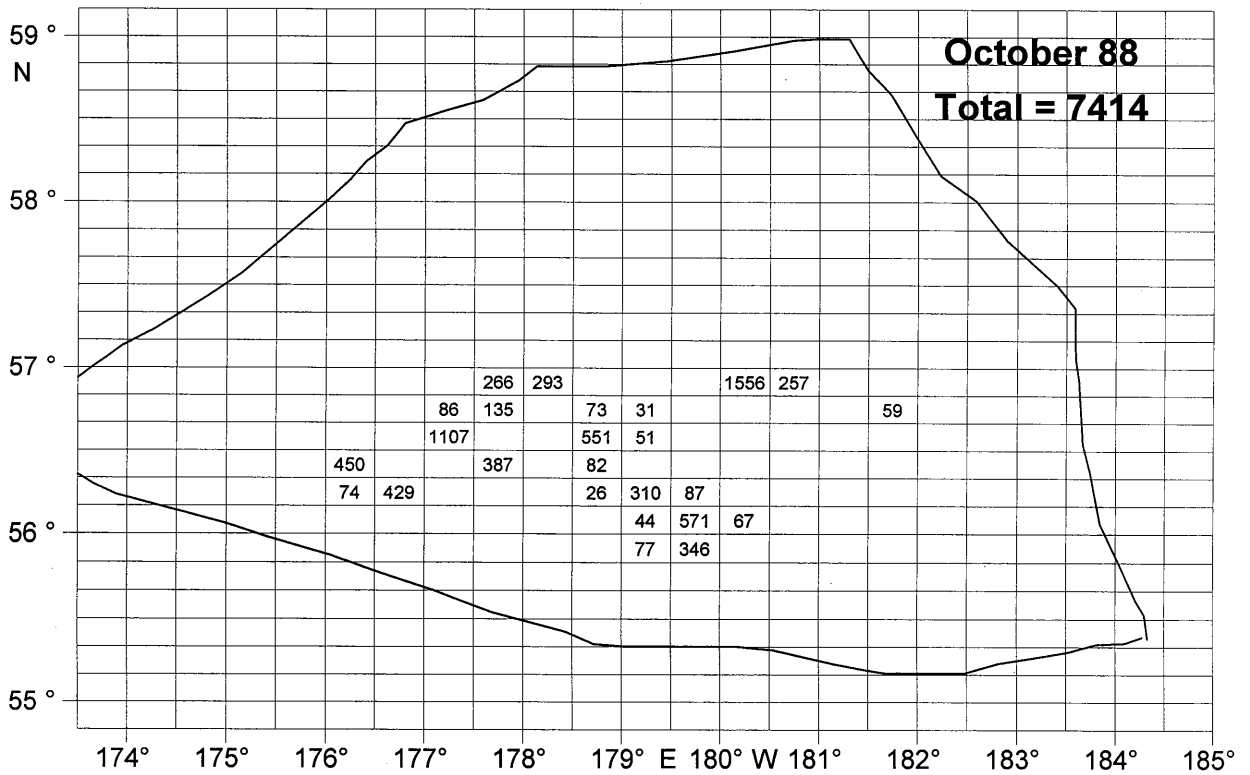
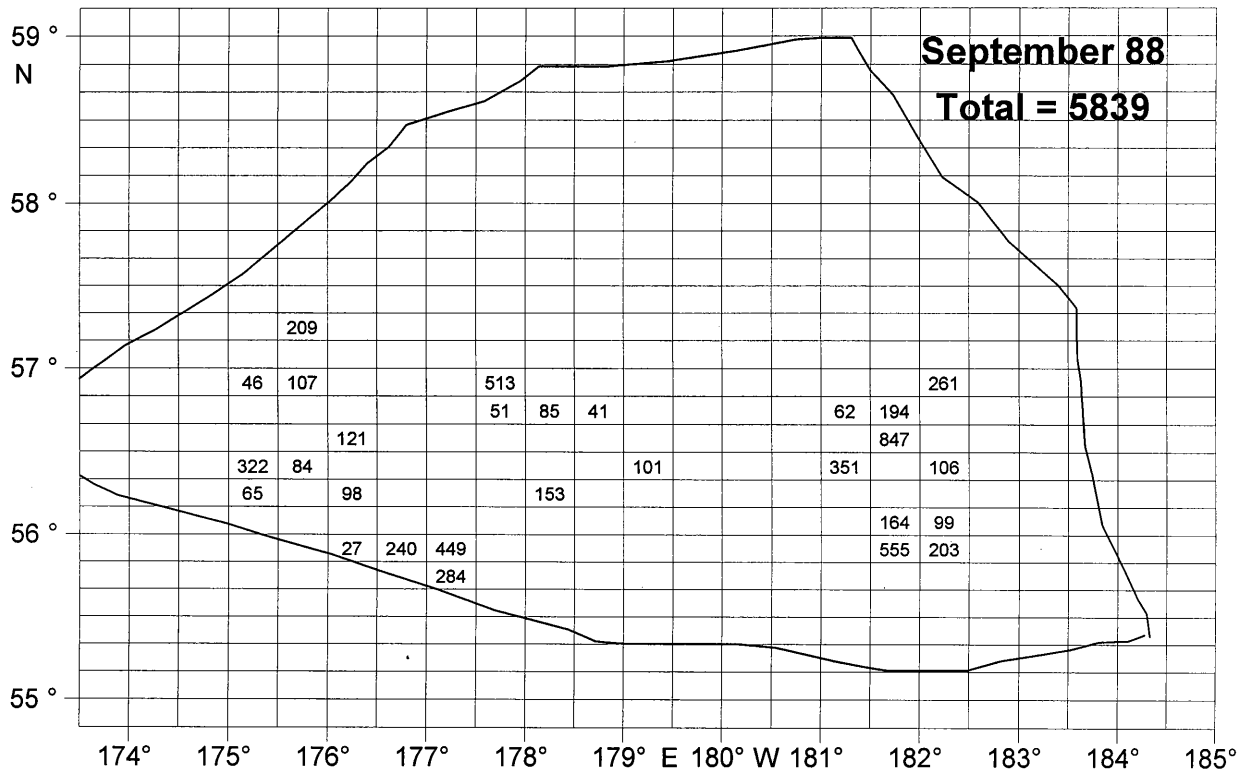


Fig. 12 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1988

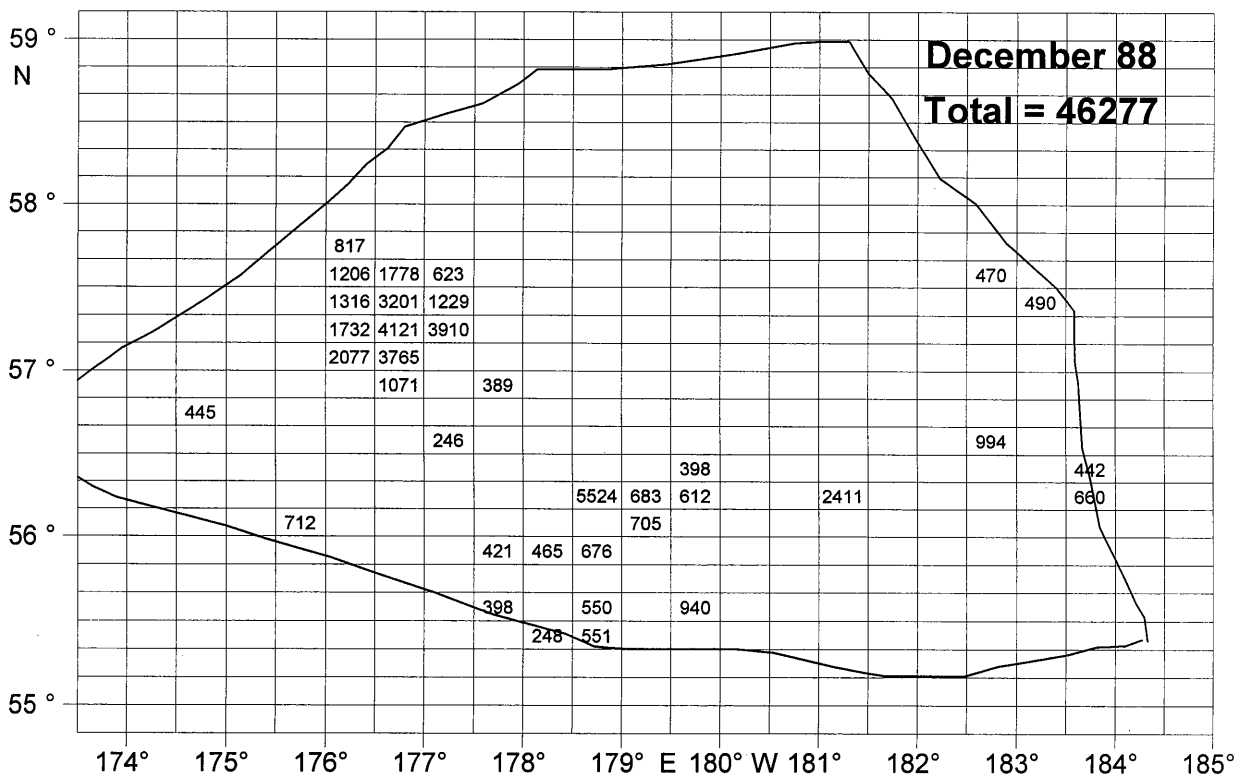
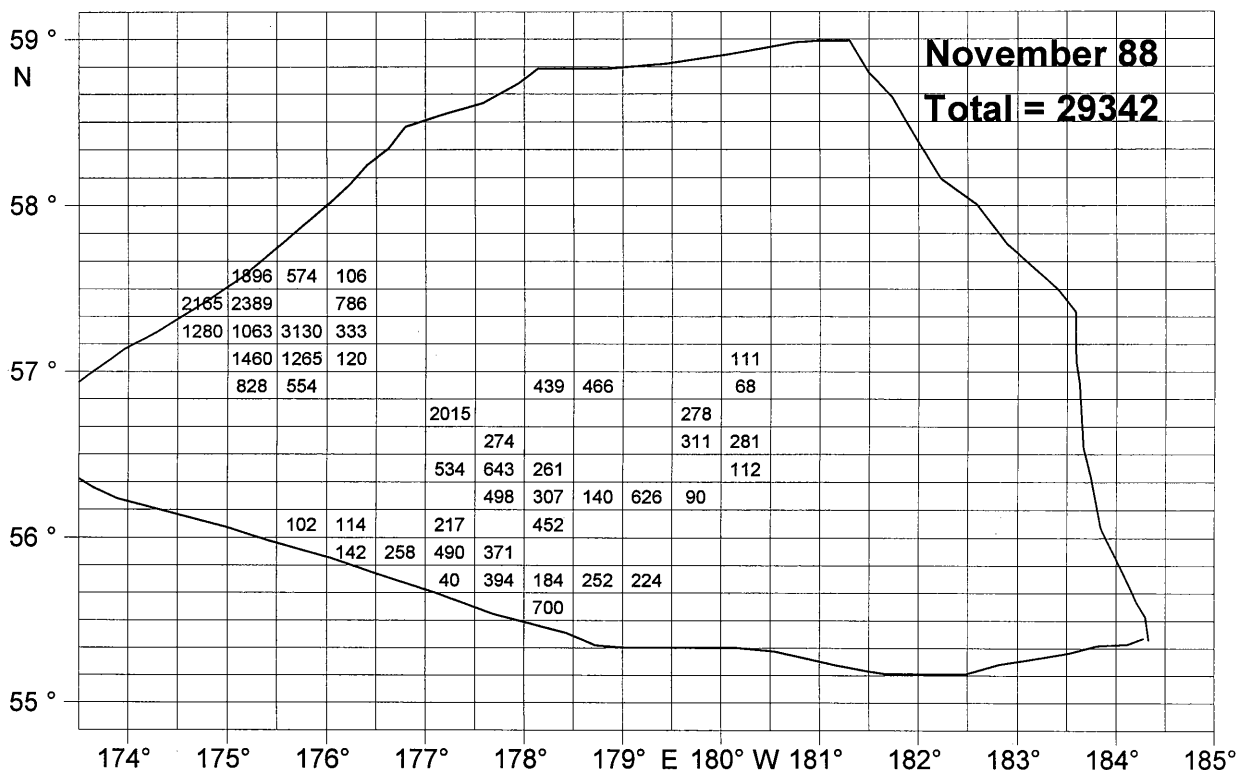


Fig. 12 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1988



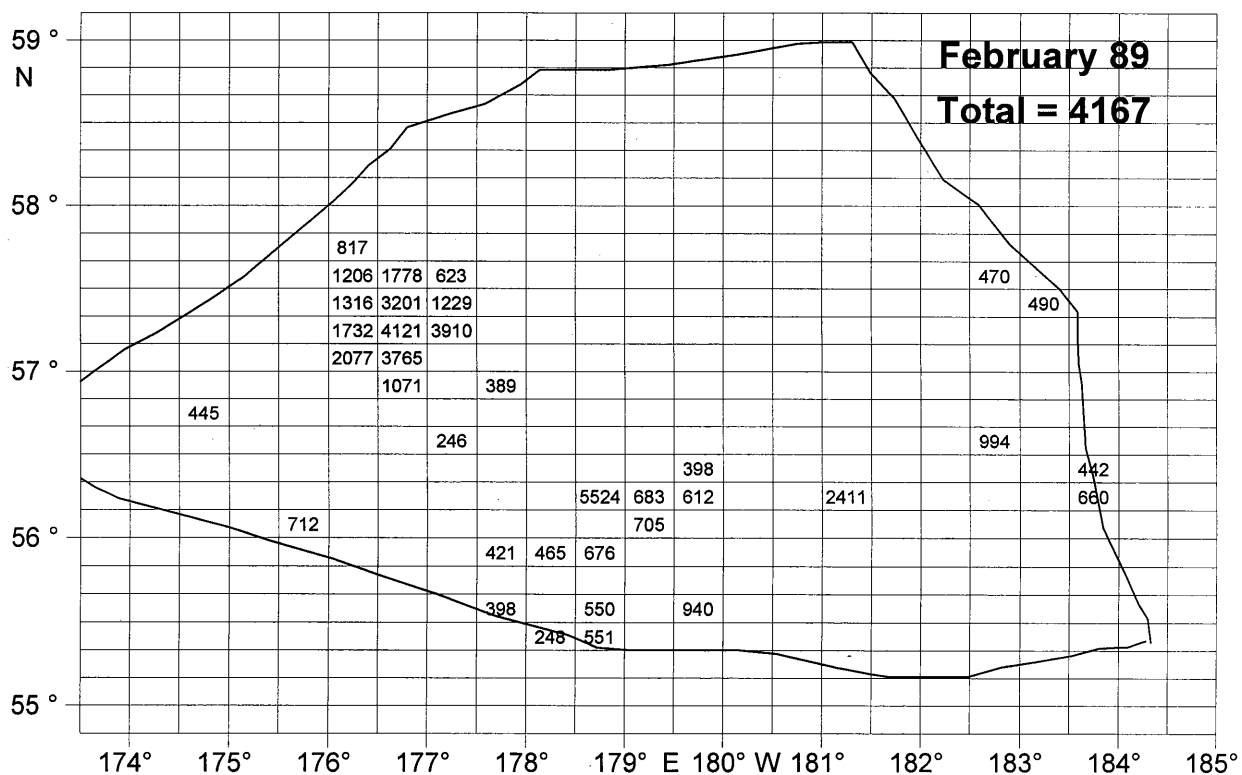
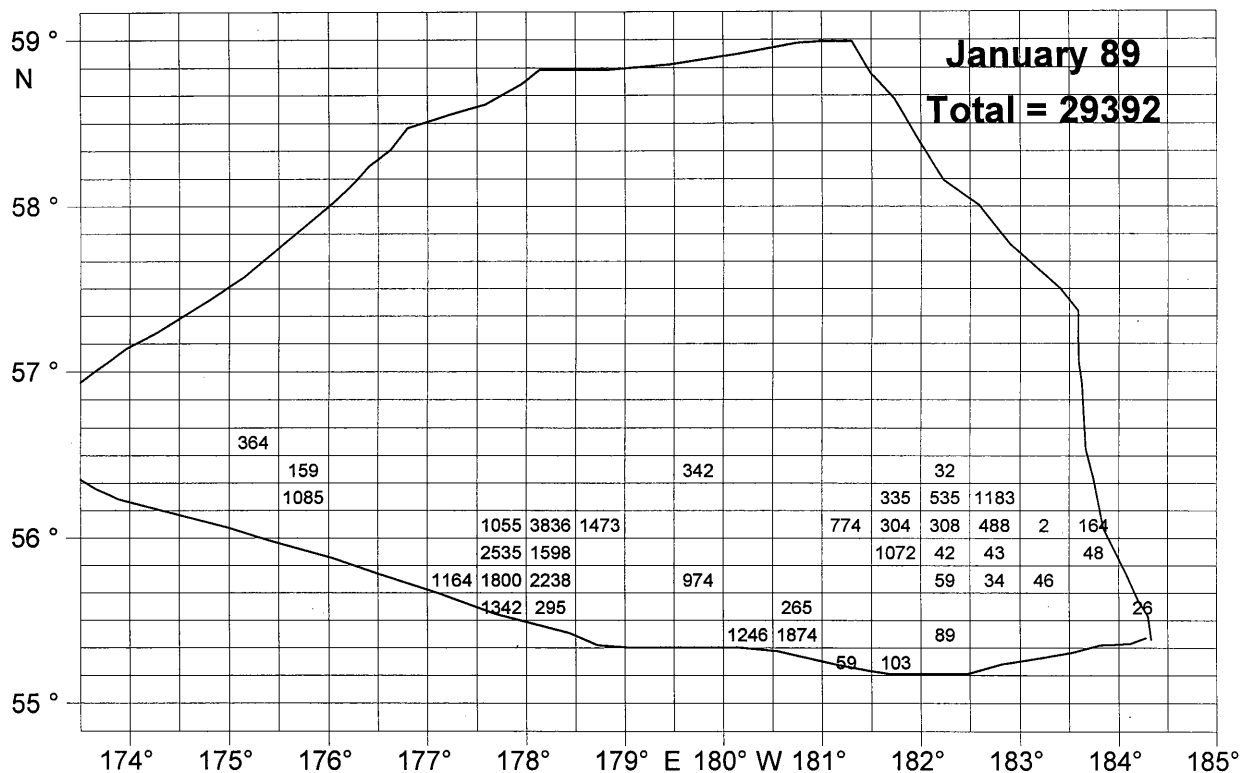


Fig. 13. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1989

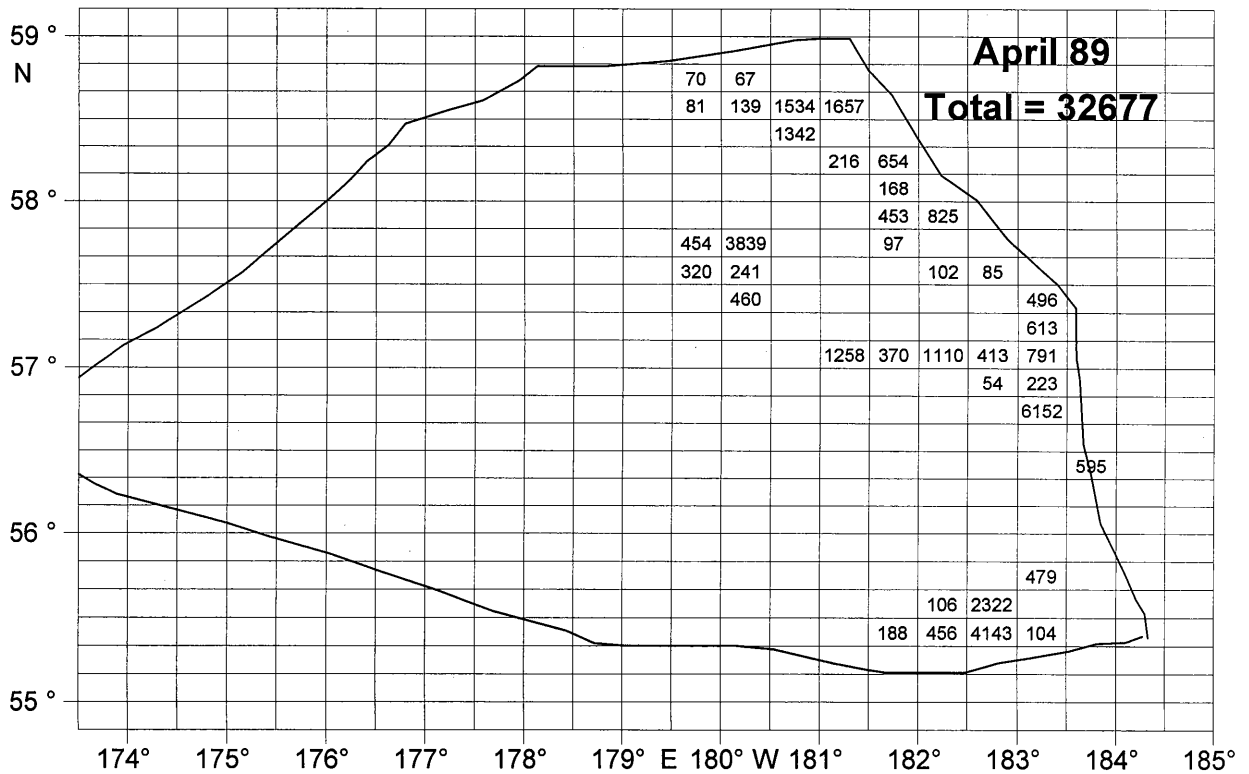
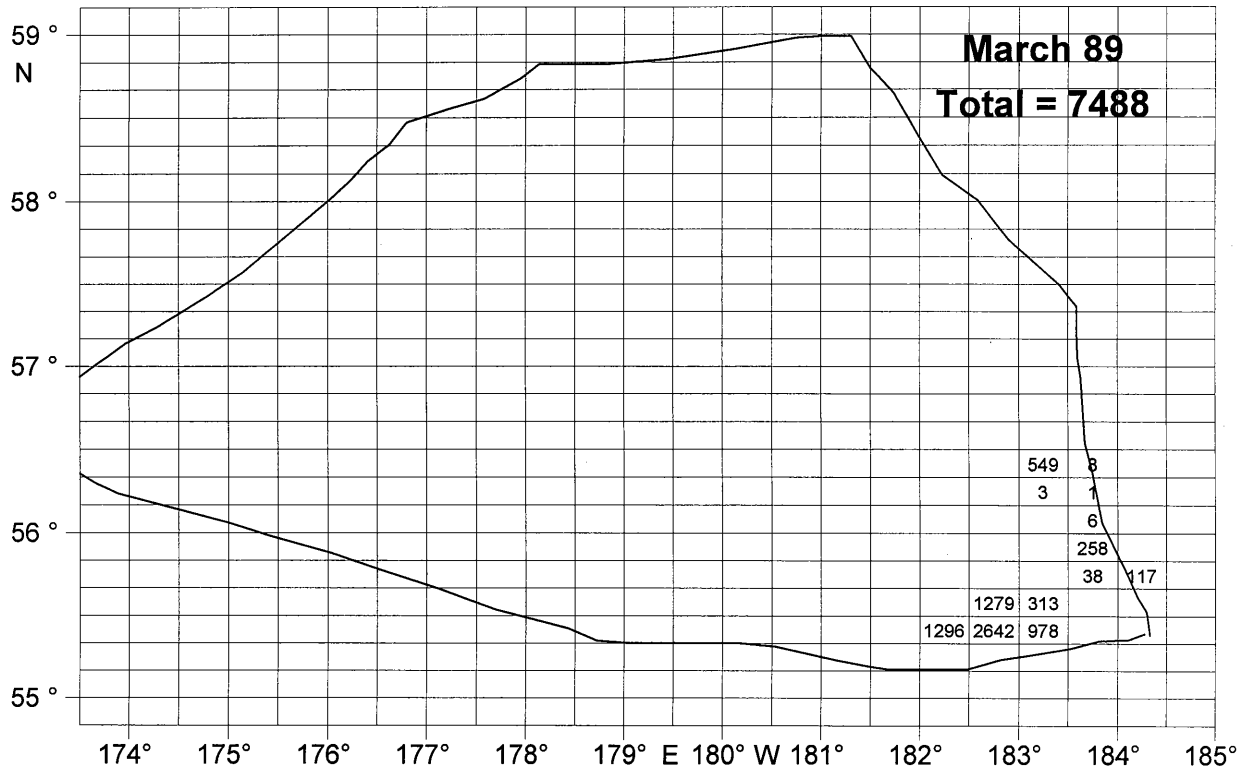


Fig. 13 cont.. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1989



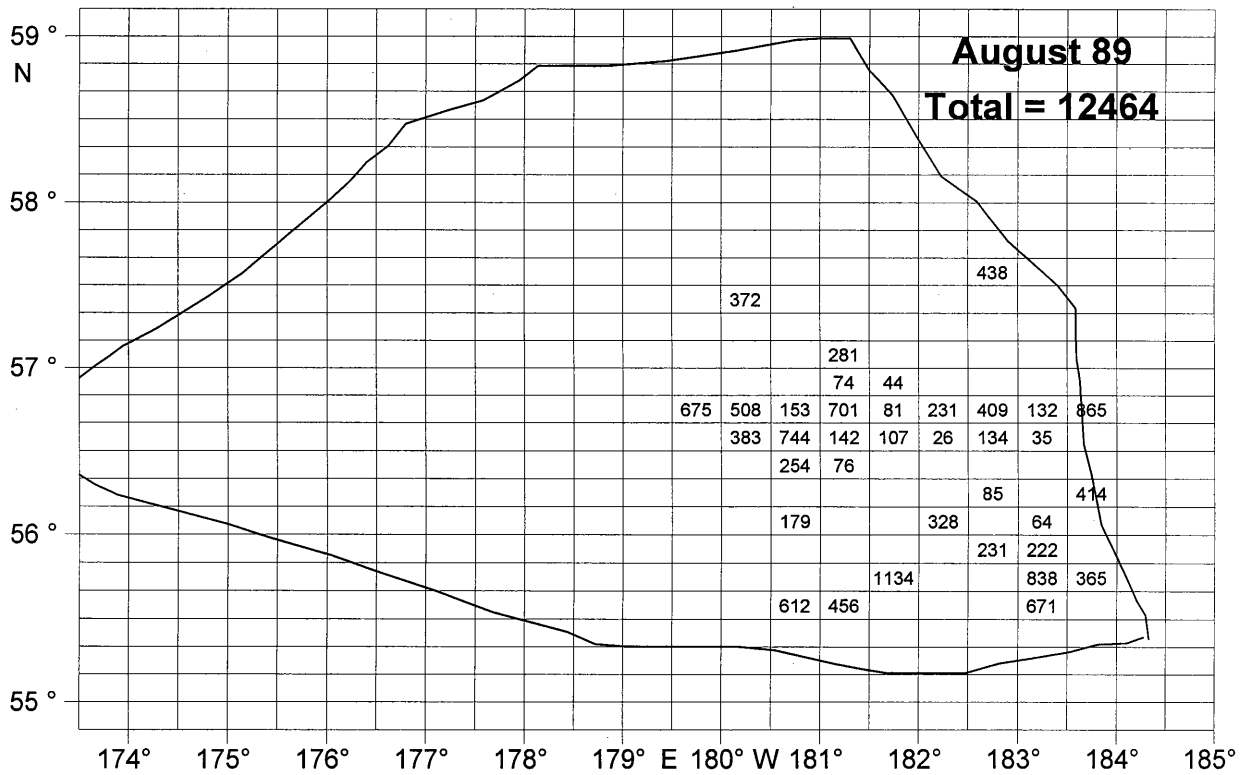
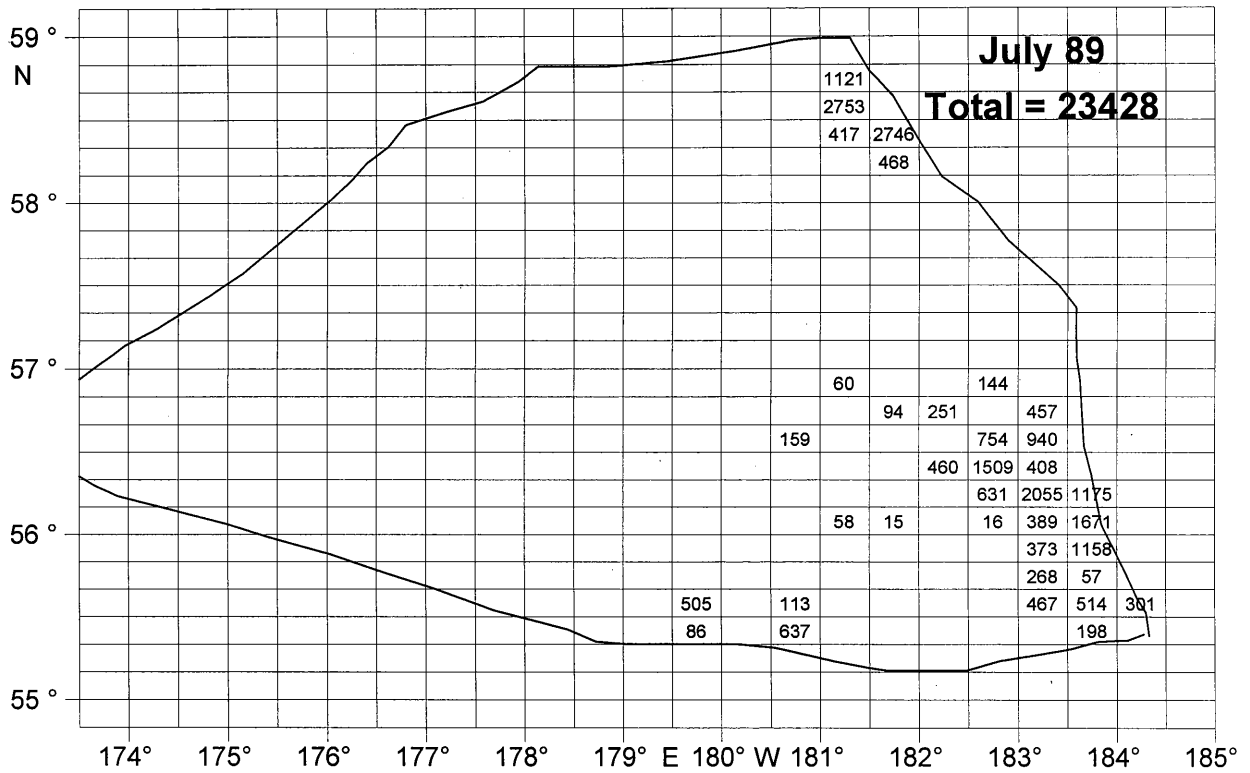


Fig. 13 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1989

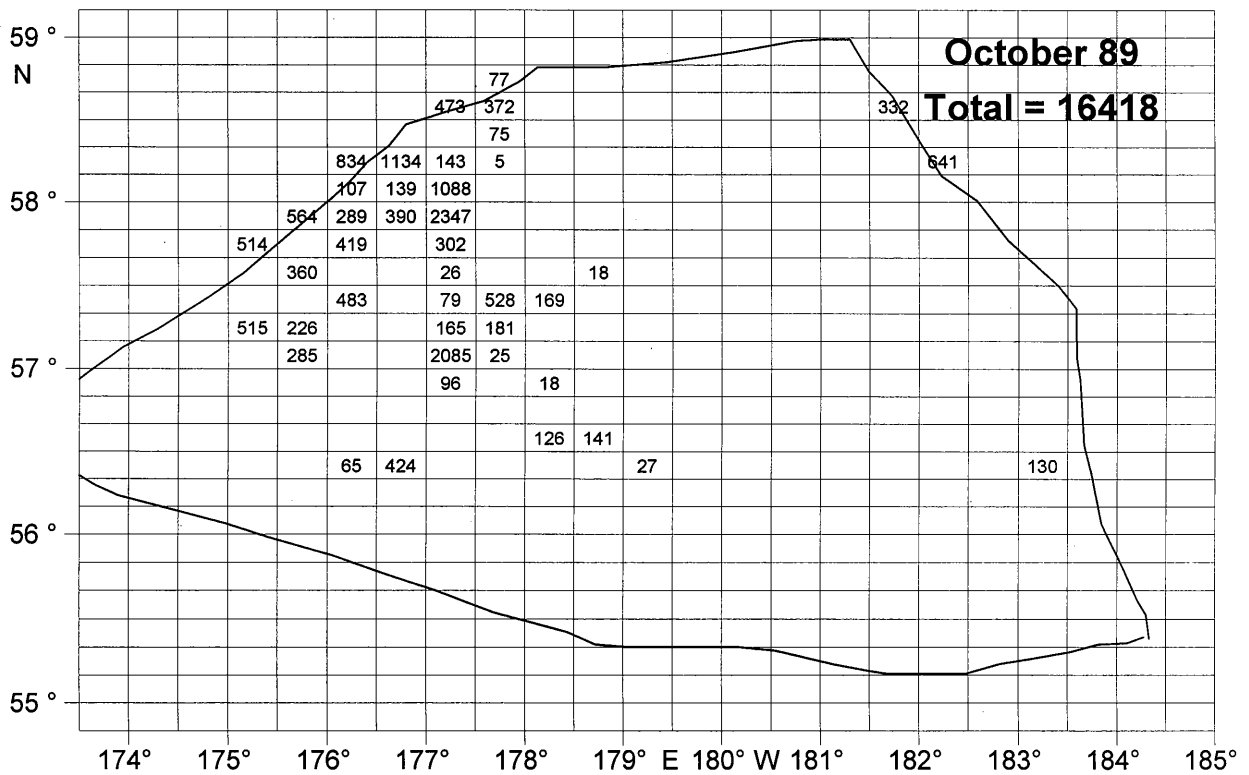
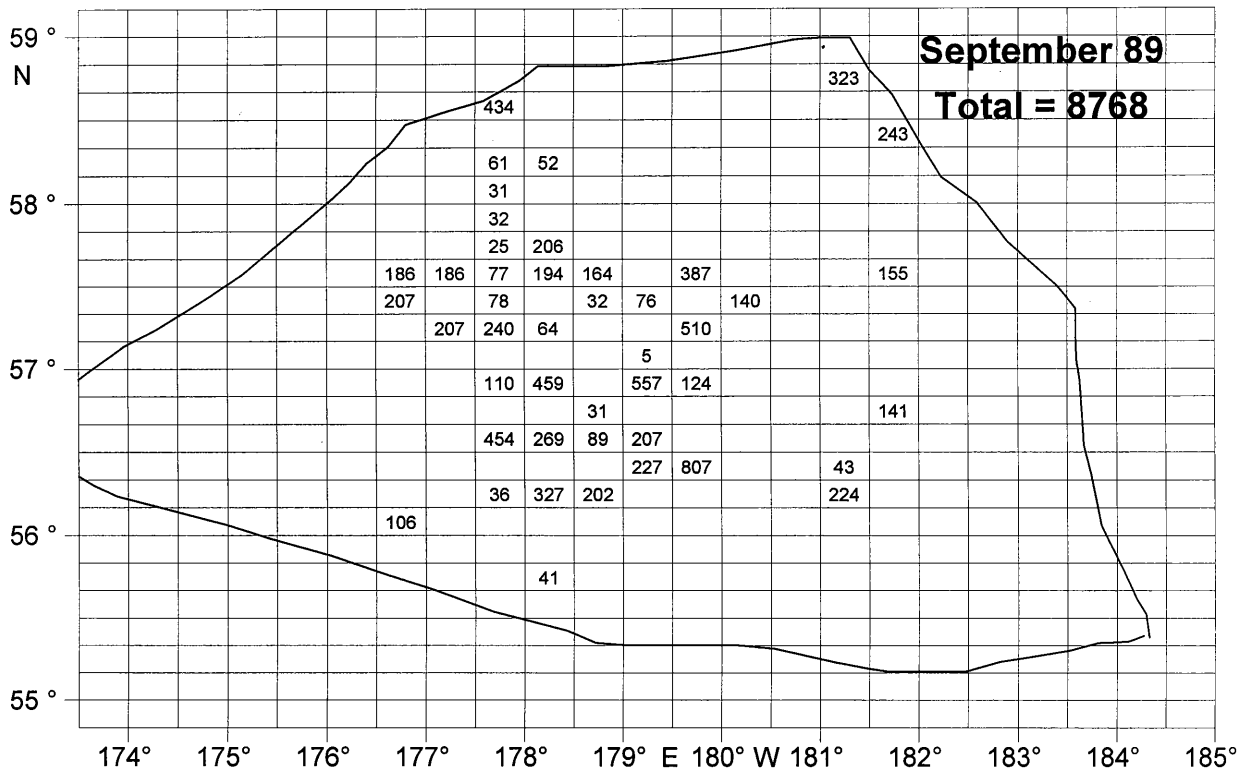


Fig. 13 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1989





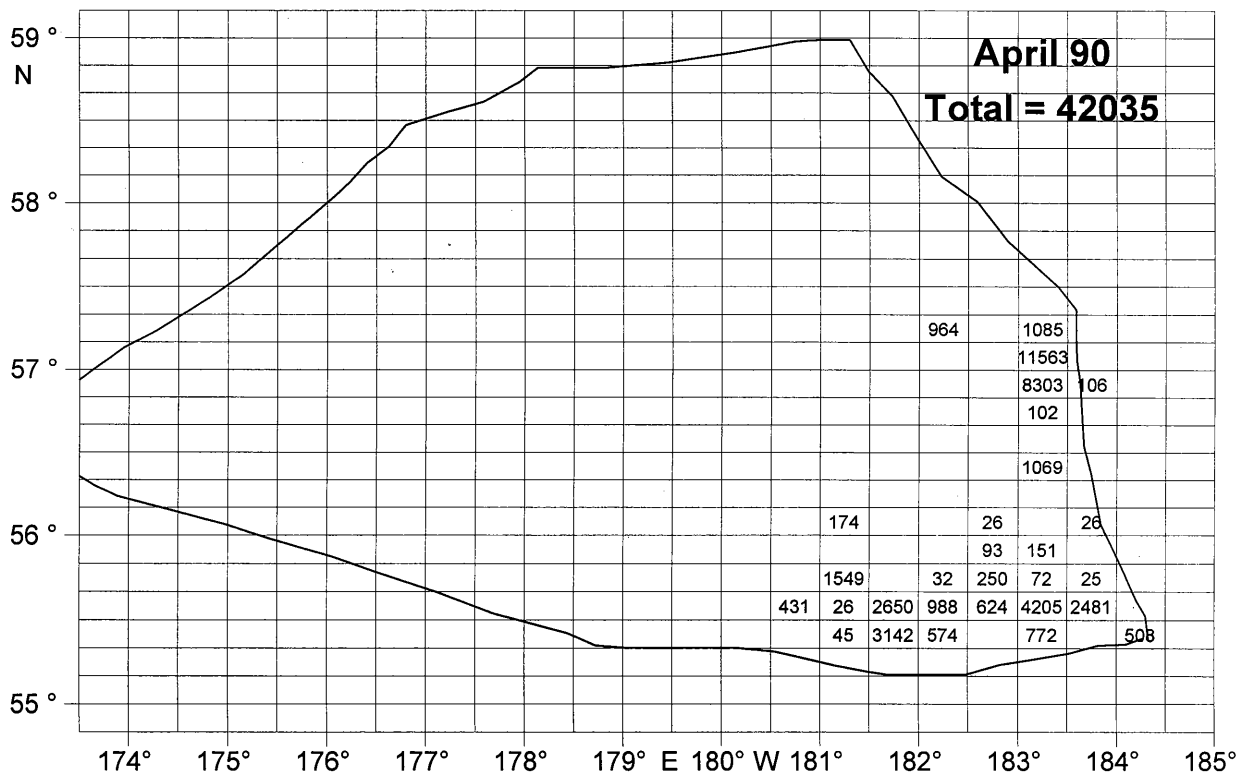


Fig. 14 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1990



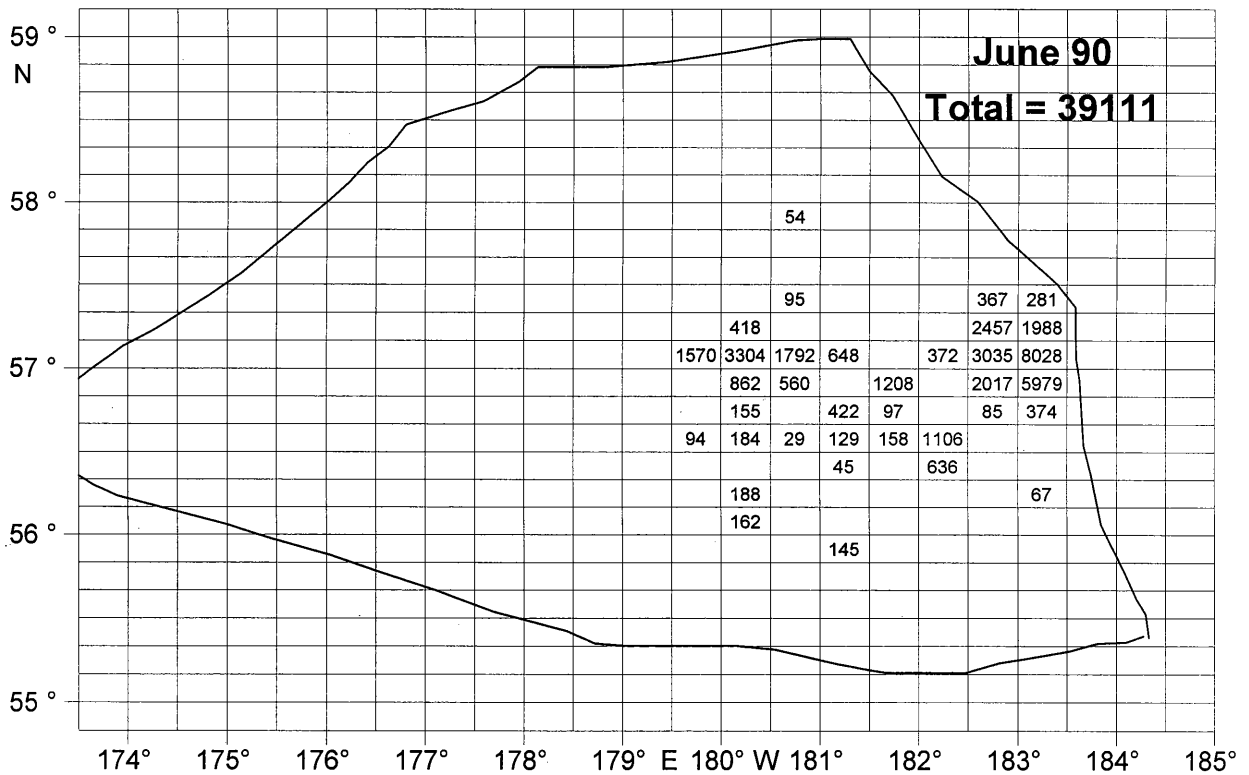
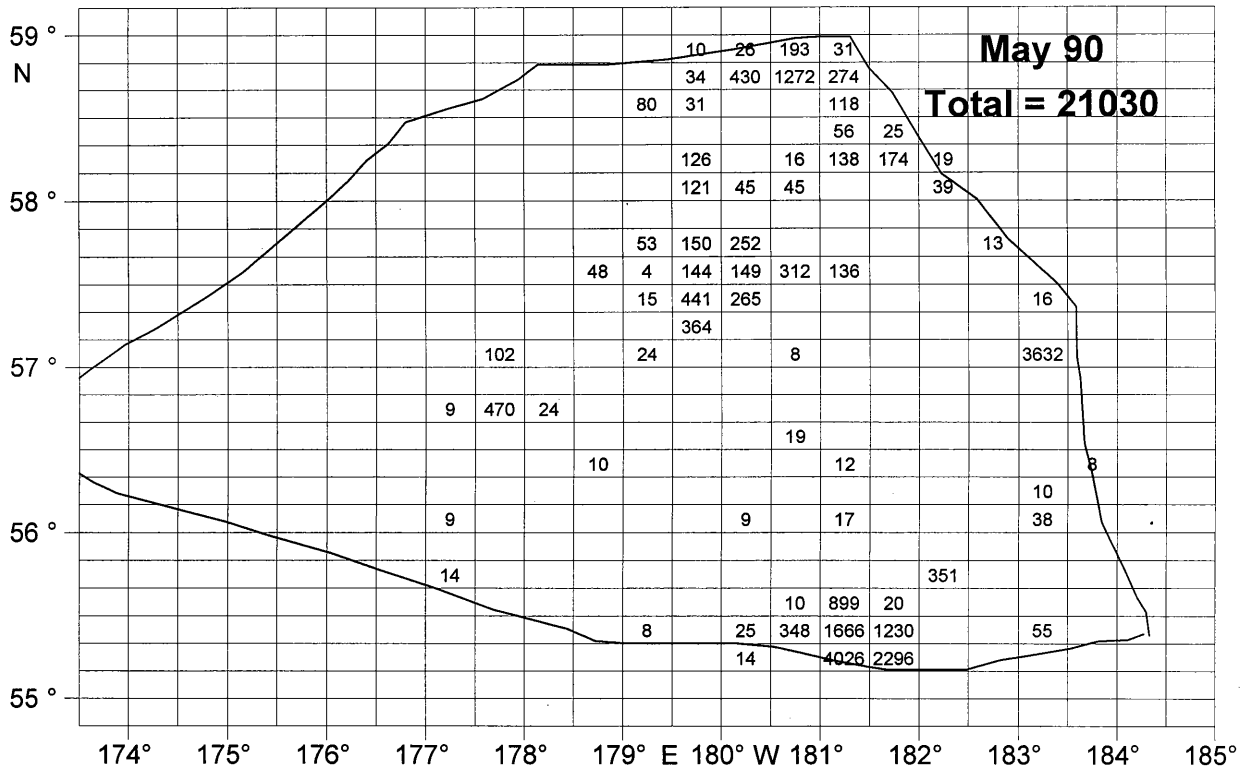


Fig. 14 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1990

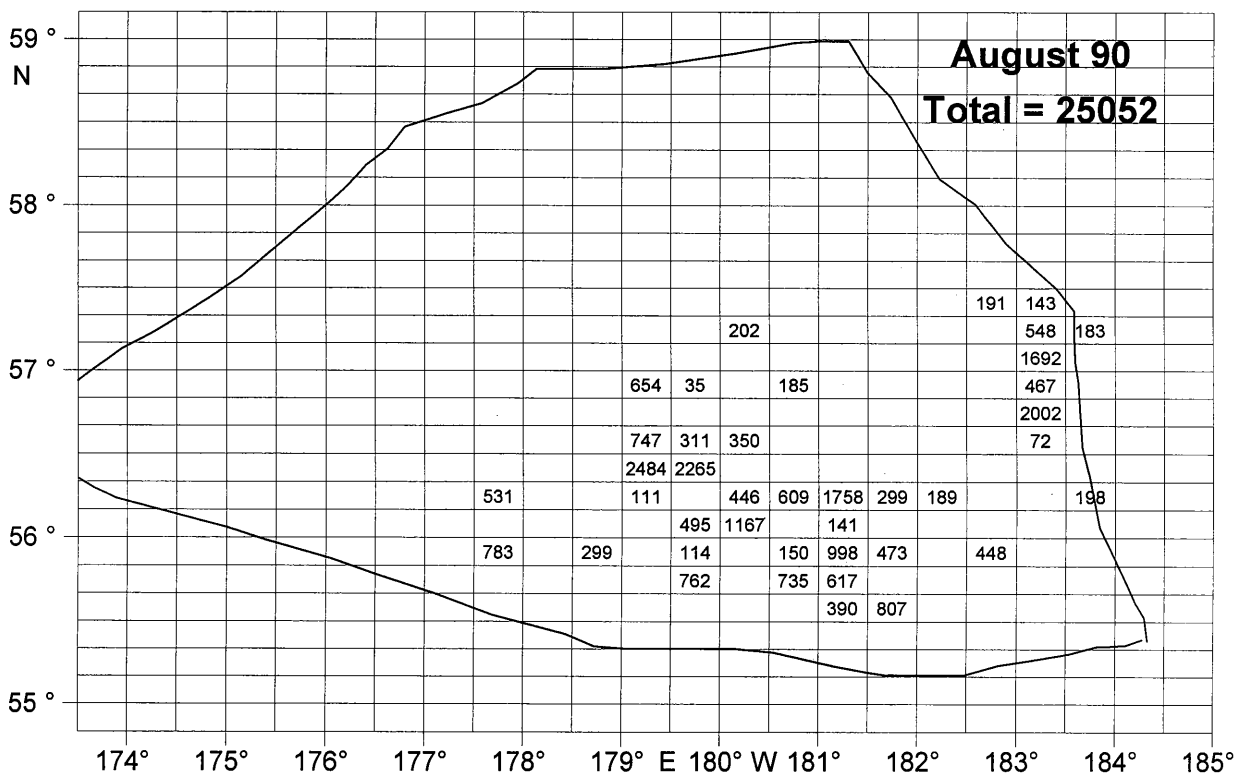
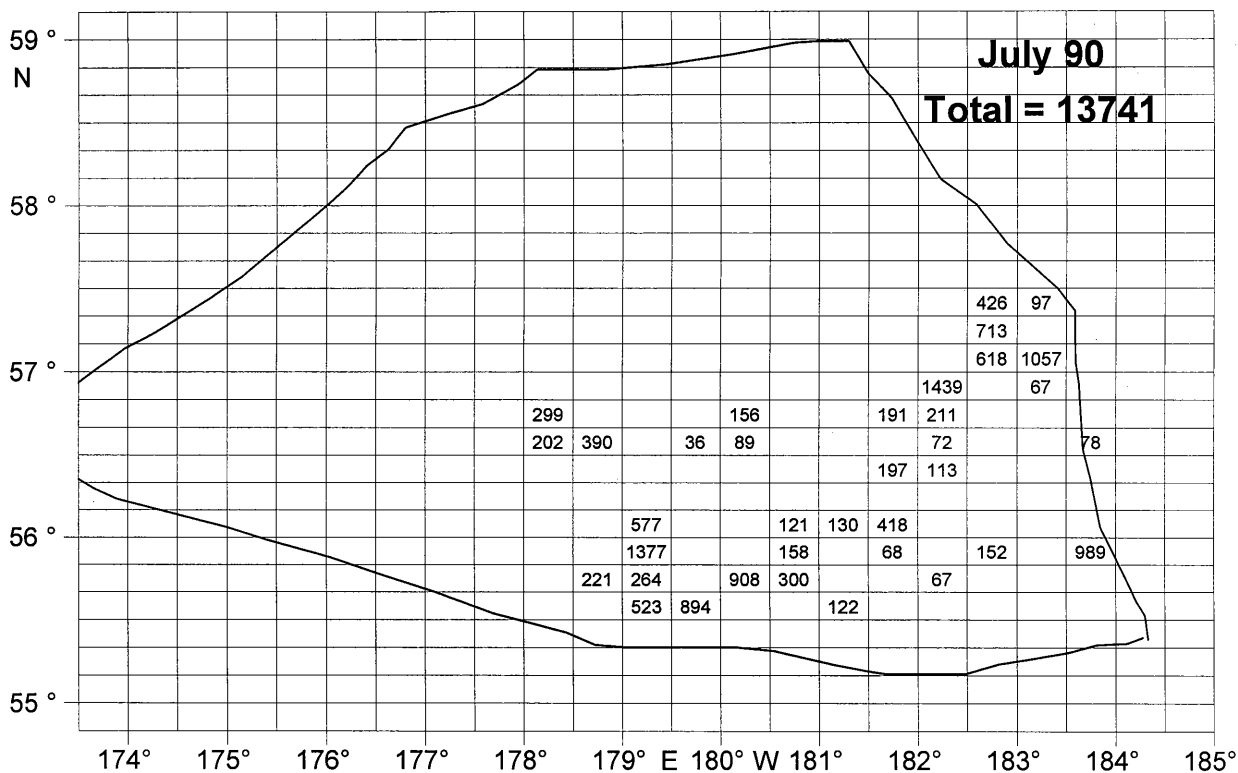


Fig. 14 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1990

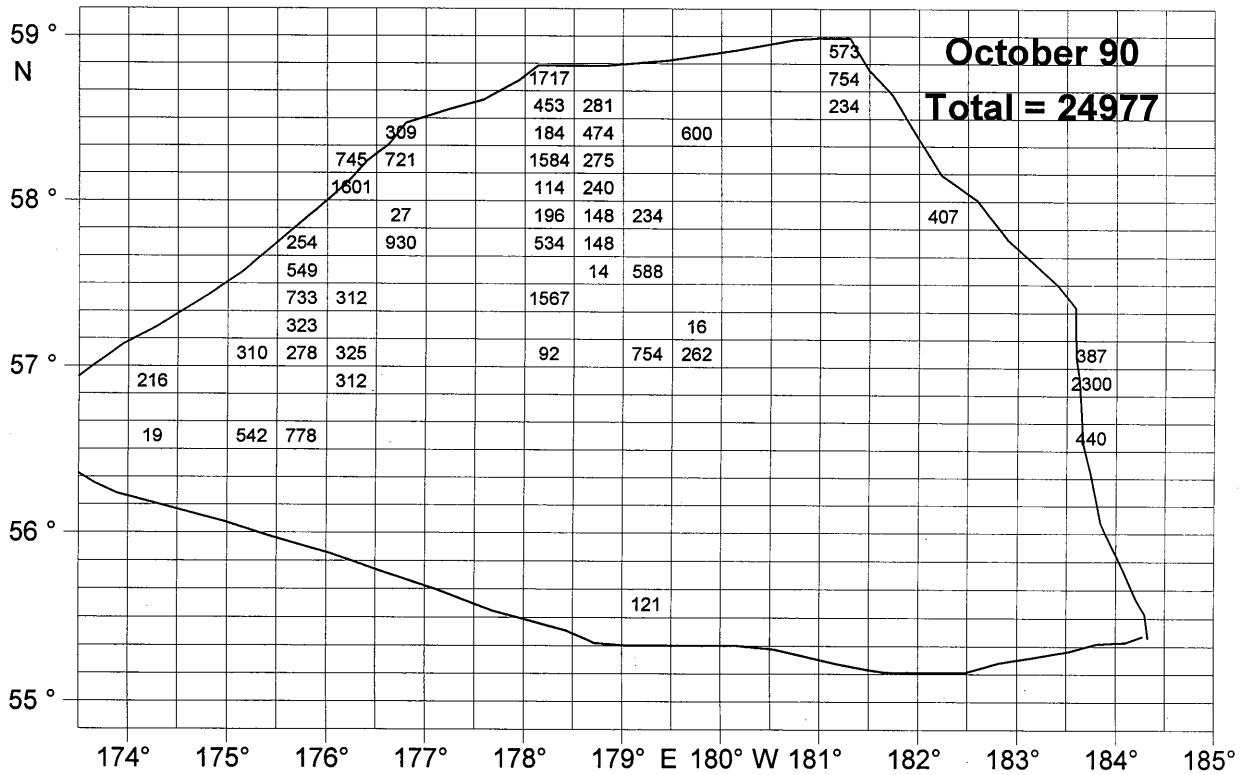
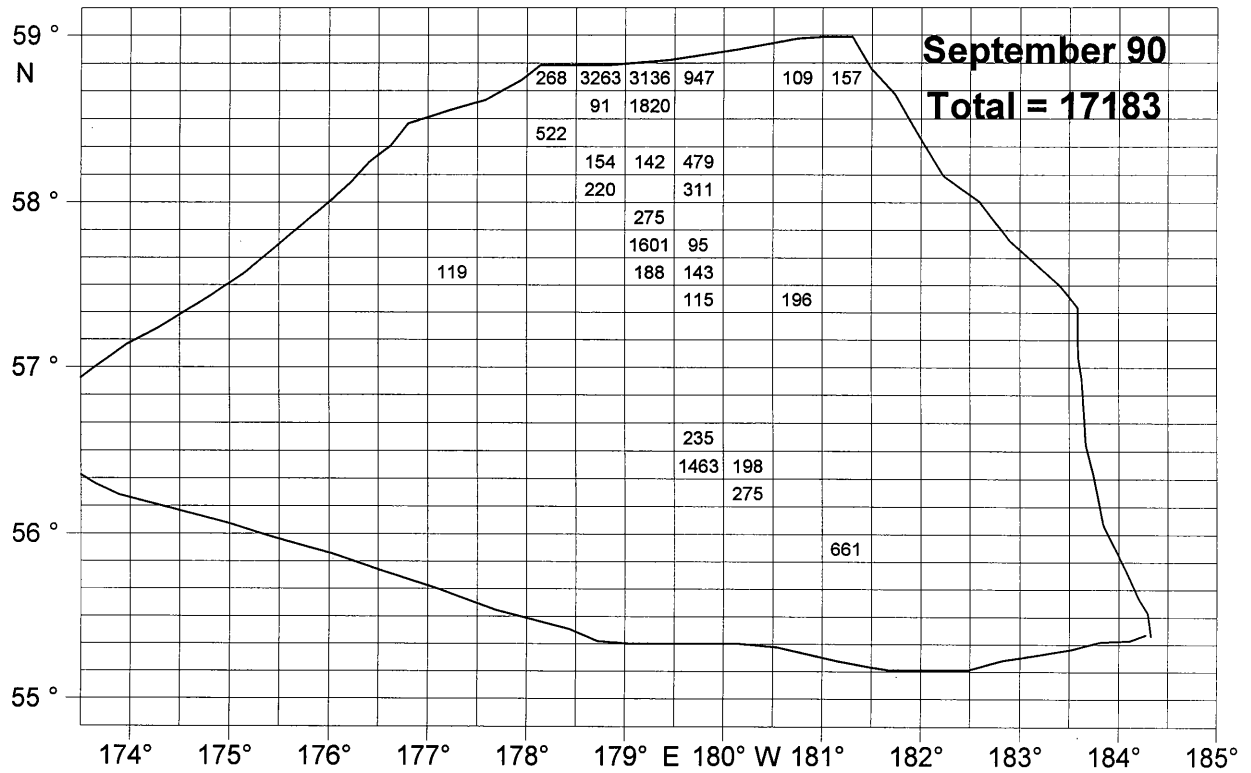


Fig. 14 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1990

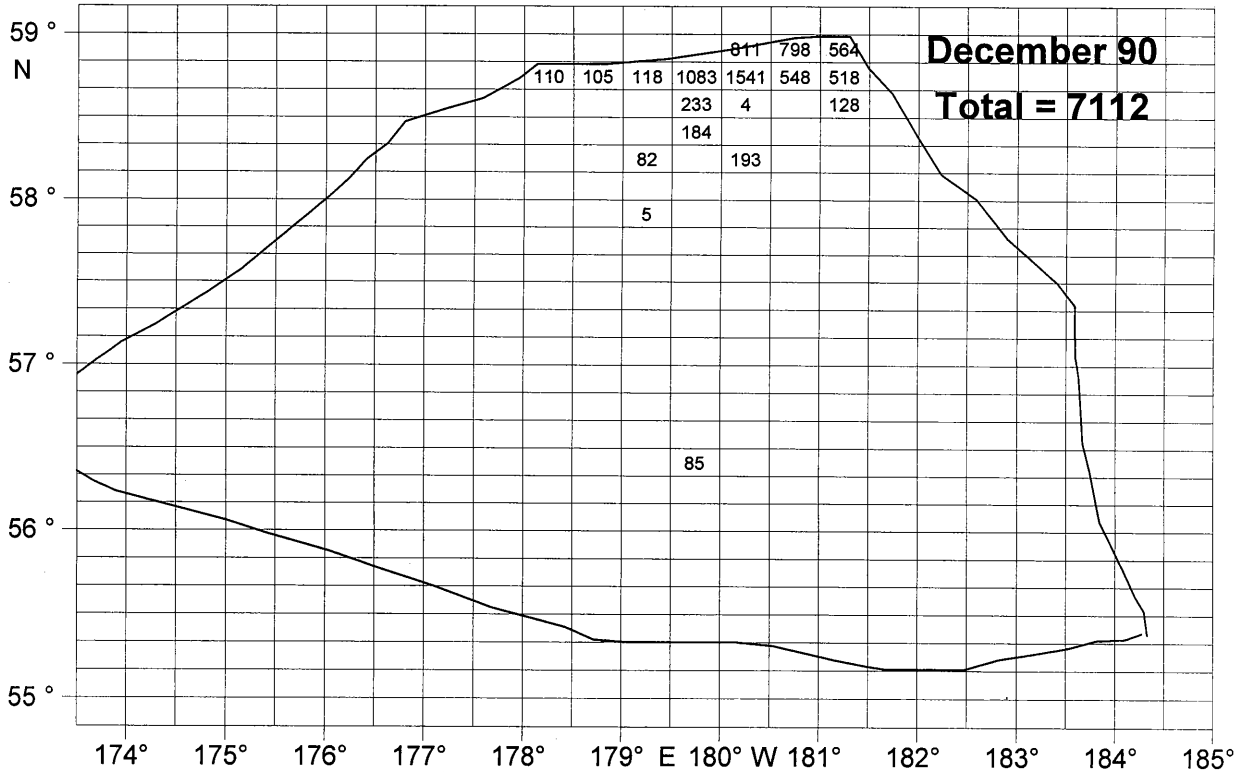
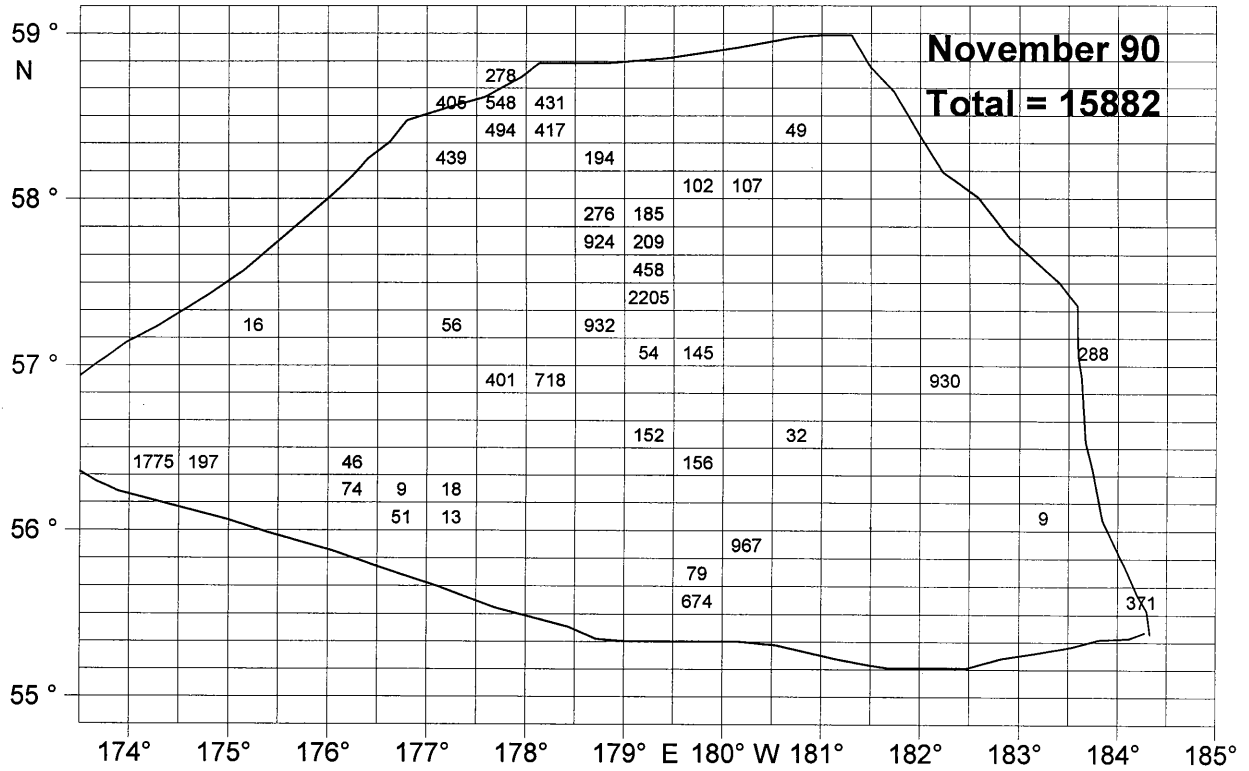


Fig. 14 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1990

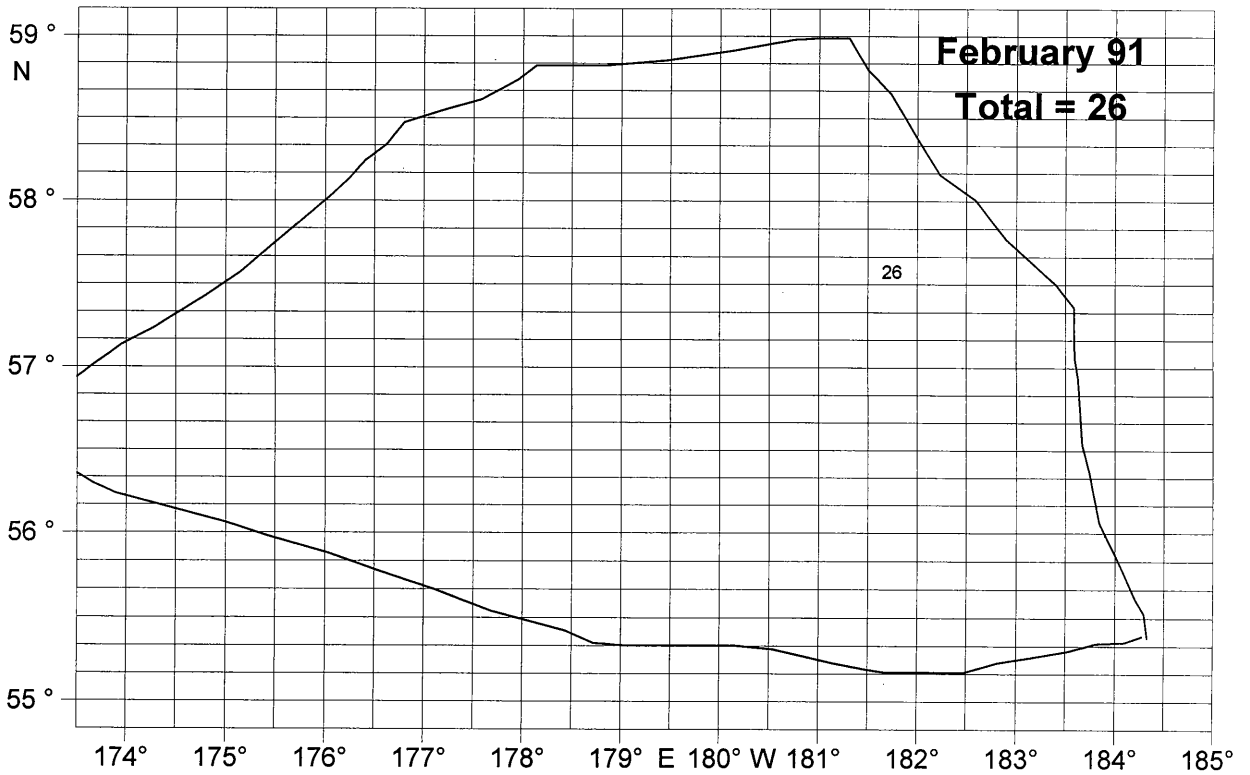
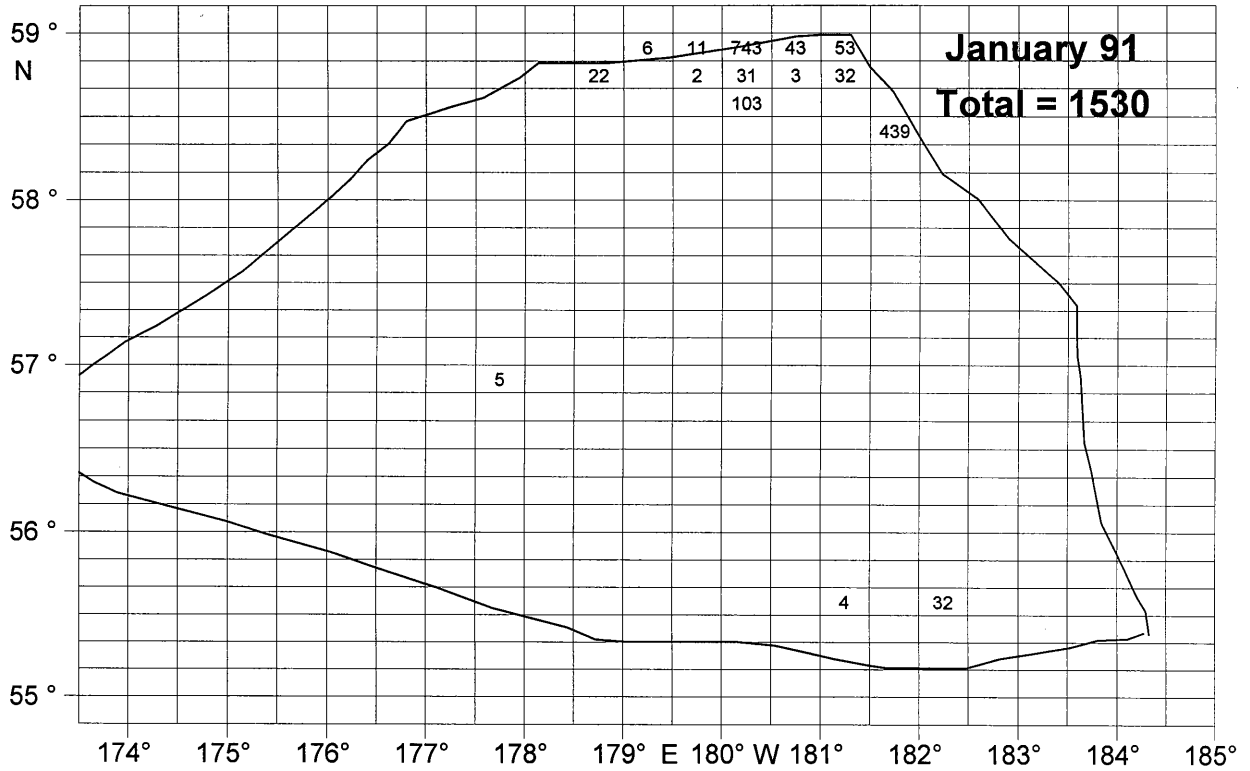


Fig. 15. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991

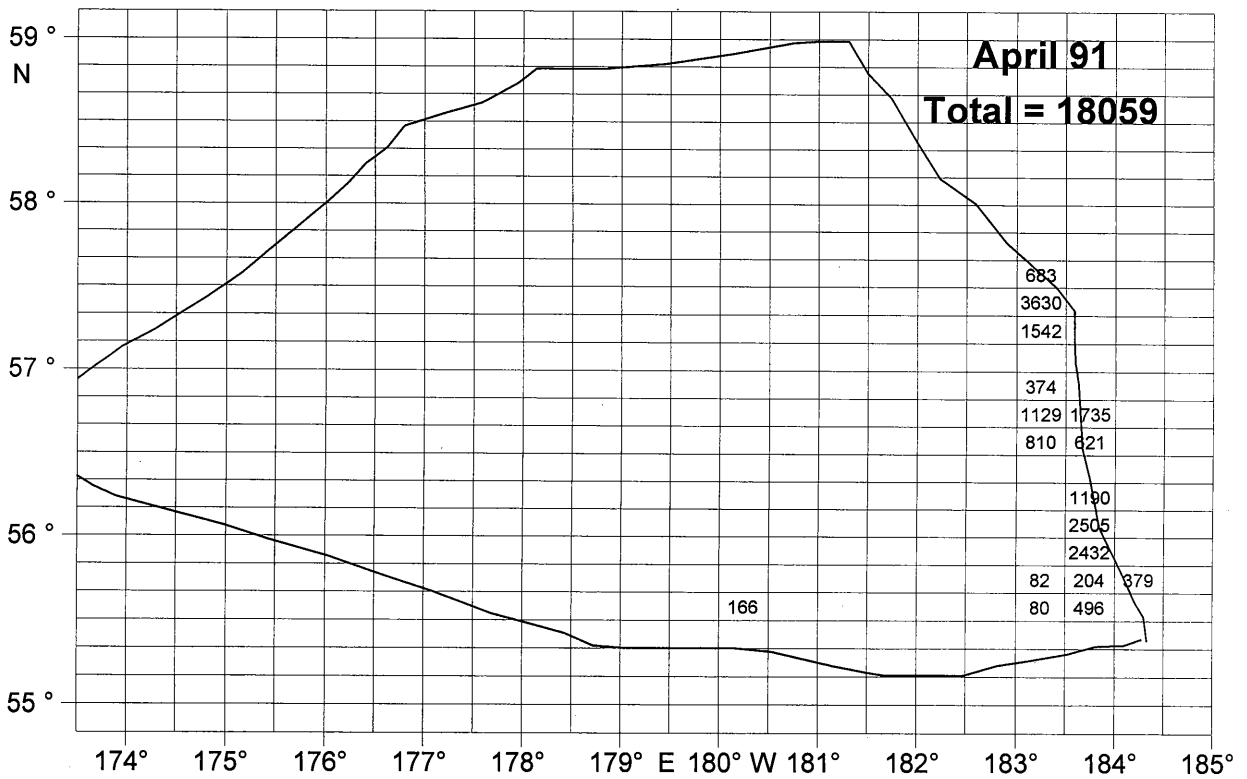


Fig. 15 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991

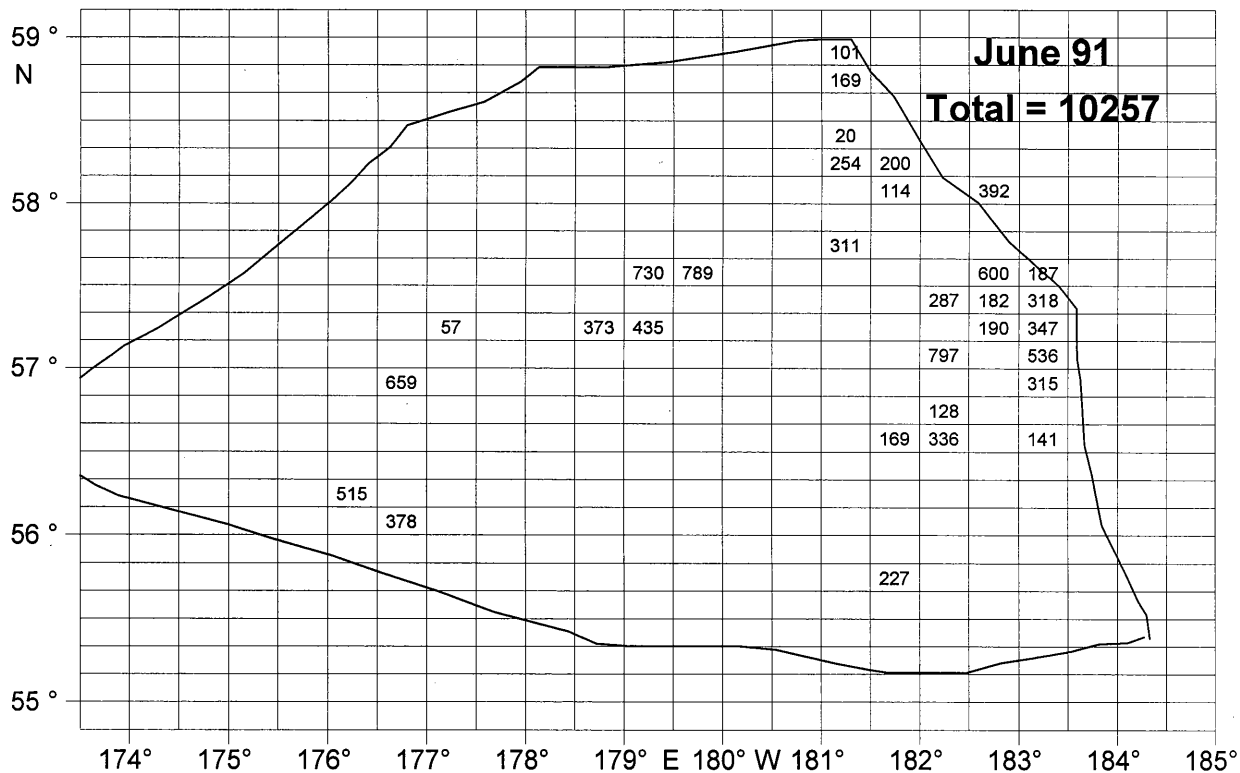
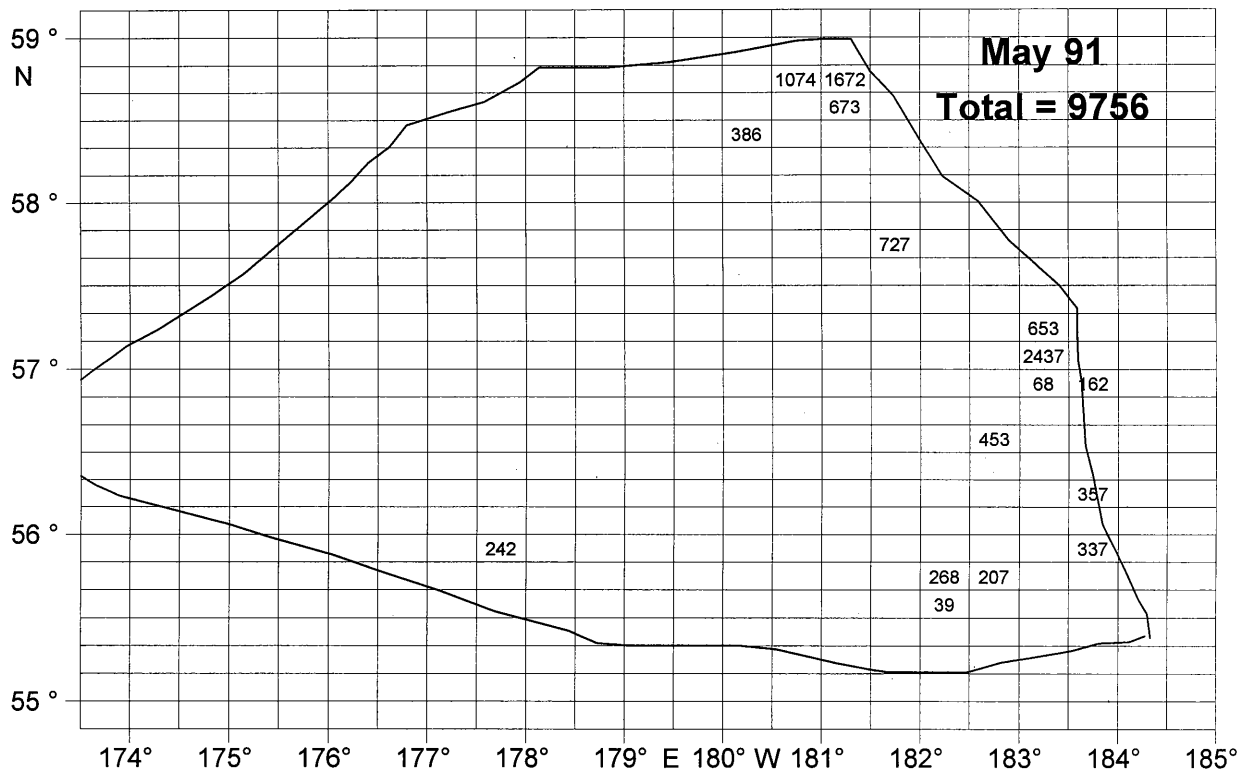


Fig. 15 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991

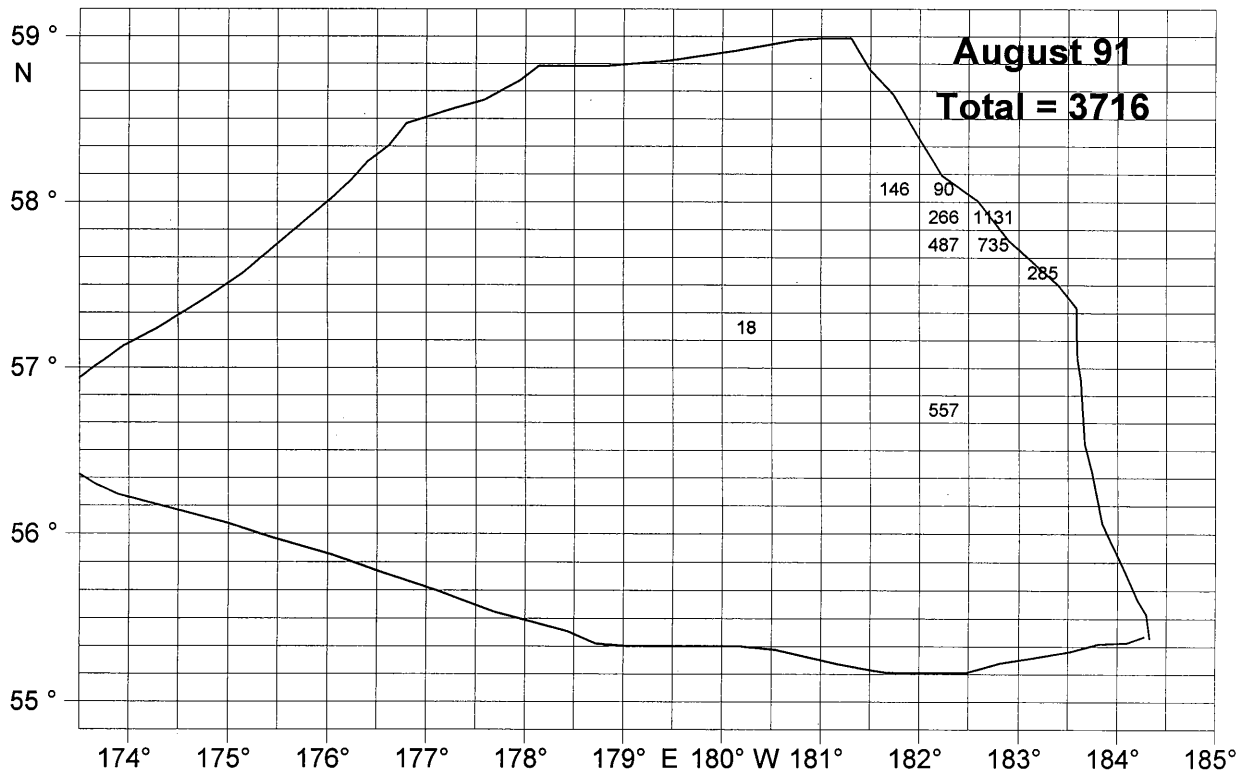


Fig. 15 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991



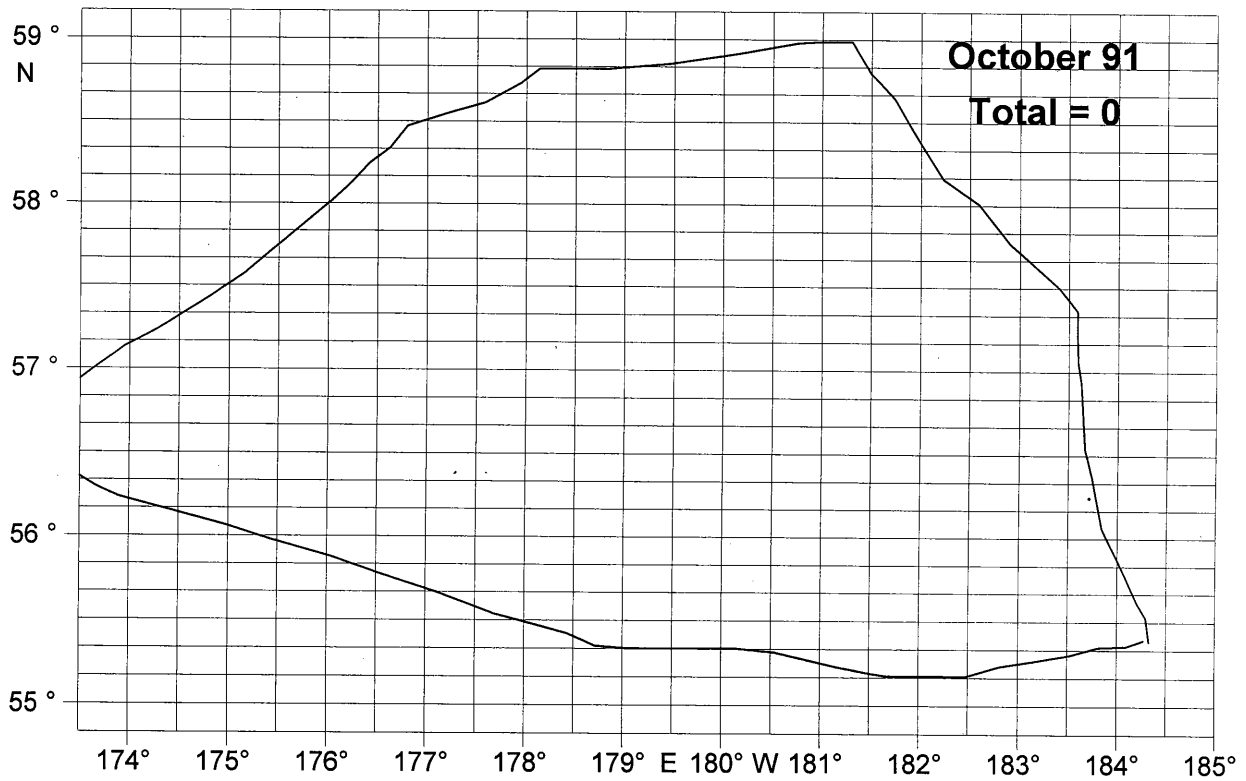
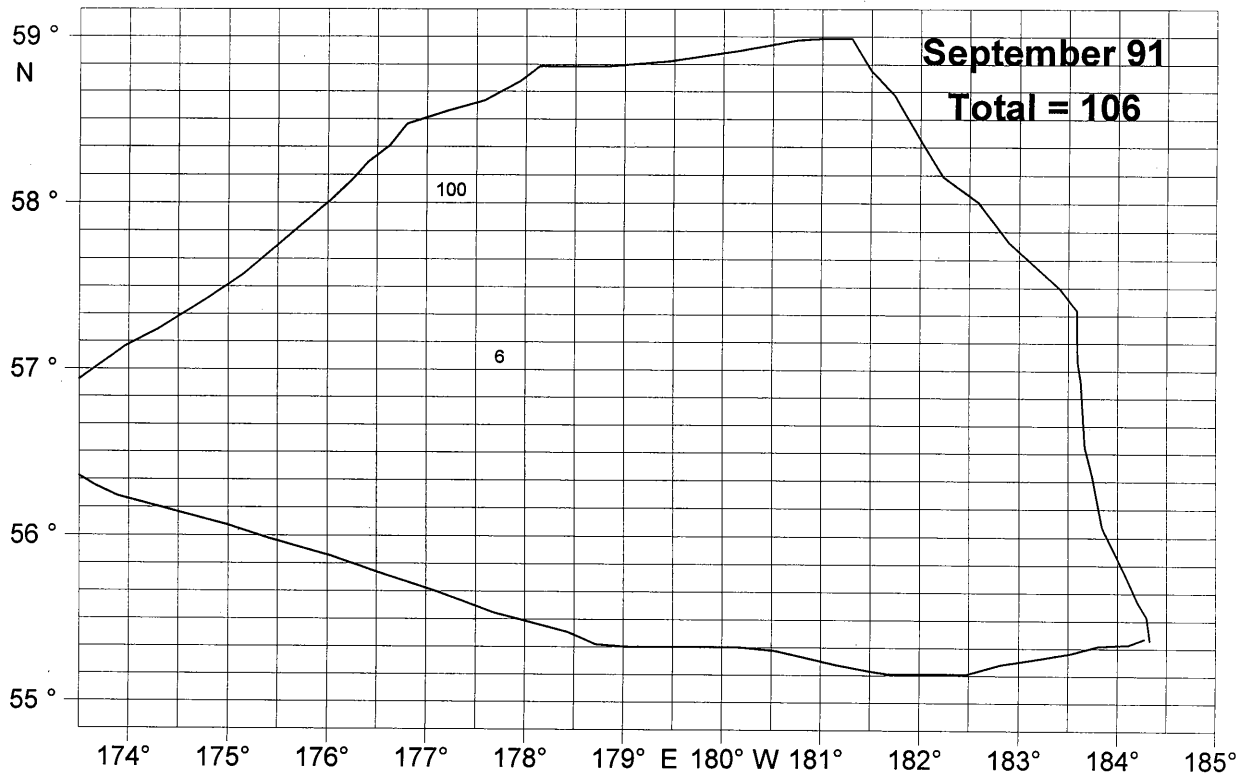


Fig. 15 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991

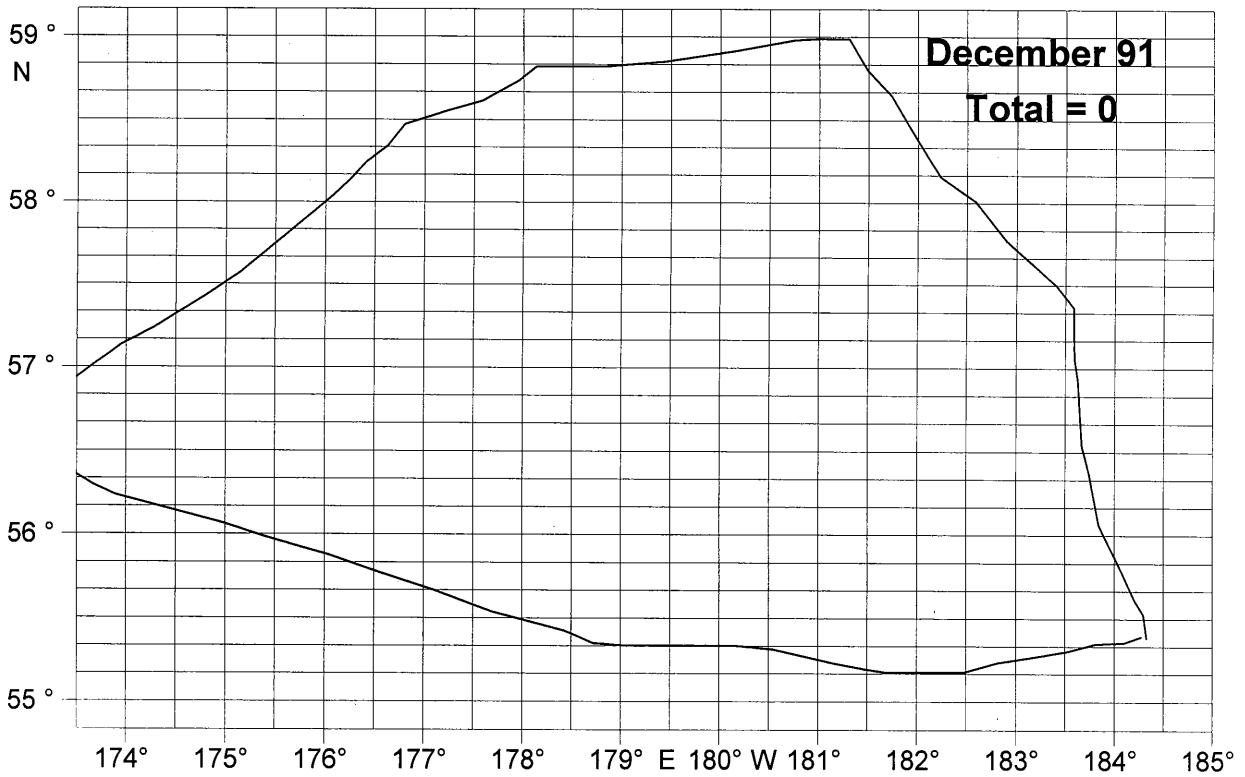
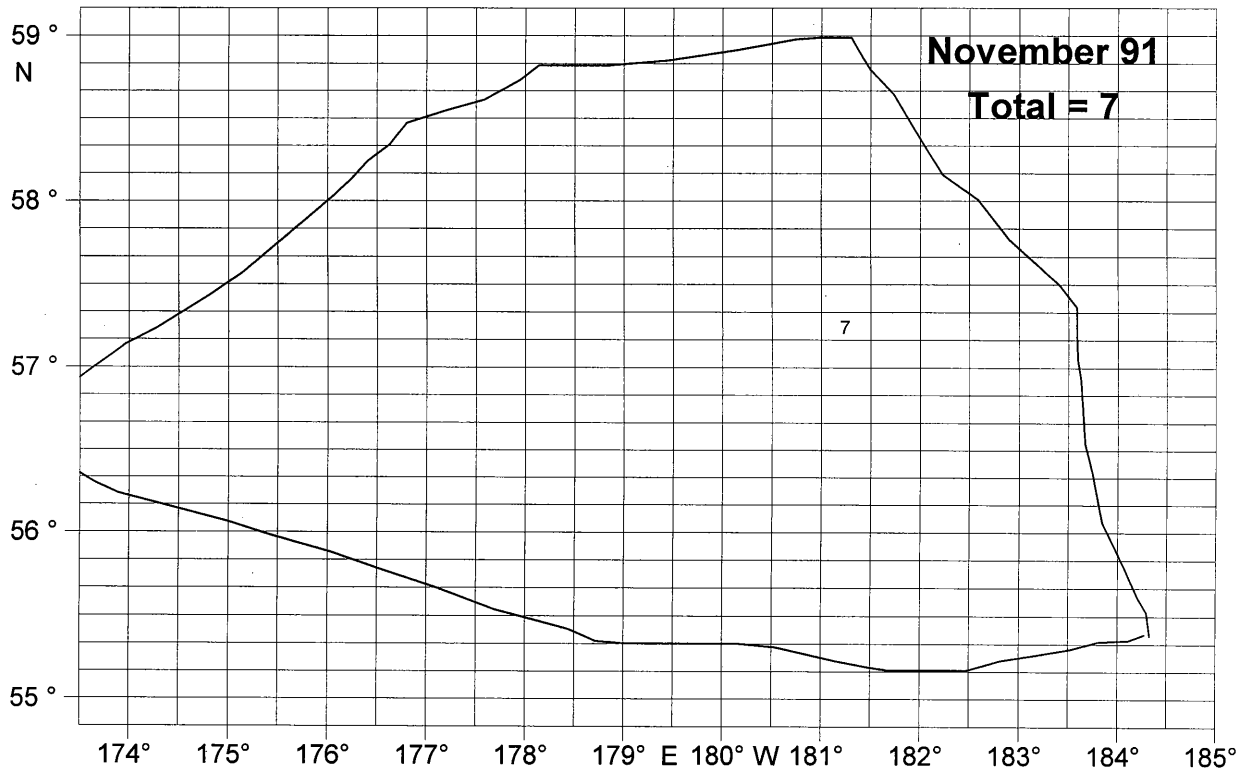
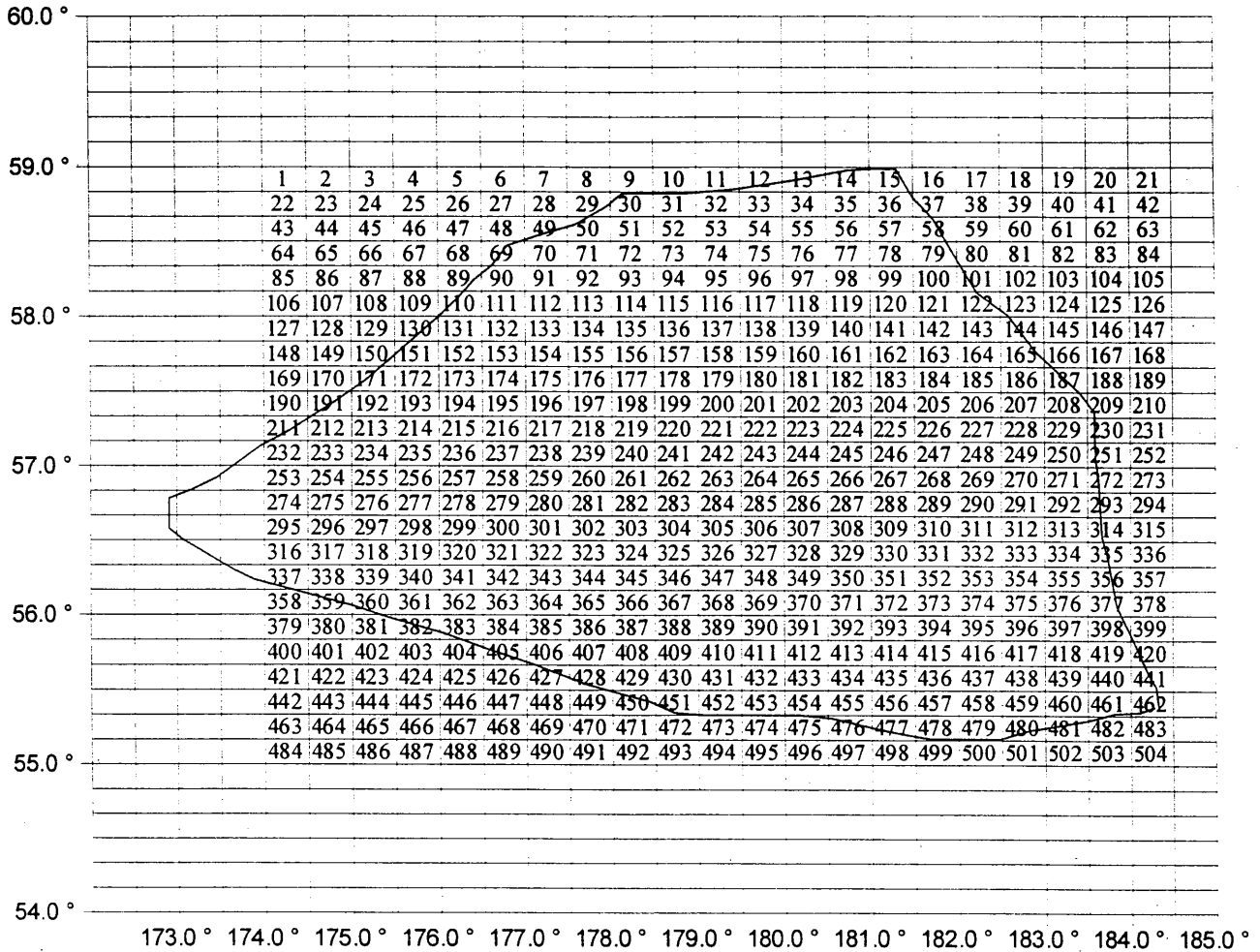


Fig. 15 cont. Polish catches (in metric tons) of pollock in Donut Hole area of the Bering Sea small statistical blocks (10' latitude x 30' longitude) by months in 1991



Map of central Bering Sea showing small statistical blocks (10' latitude by 30' longitude)

Geographical positions (lower left corner of the block, 10' latitude by 30' longitude)  
of small statistical blocks used for Polish pollock catch data from the central Bering Sea

Block No.	Latitude	Longitude	Block No.	Latitude	Longitude	Block No.	Latitude	Longitude
1	58° 50' N	174° 00' E	61	58° 30' N	176° 00' W	121	58° 00' N	178° 30' W
2	58° 50' N	174° 30' E	62	58° 30' N	176° 30' W	122	58° 00' N	177° 00' W
3	58° 50' N	175° 00' E	63	58° 30' N	175° 00' W	123	58° 00' N	177° 30' W
4	58° 50' N	175° 30' E	64	58° 20' N	174° 00' E	124	58° 00' N	176° 00' W
5	58° 50' N	176° 00' E	65	58° 20' N	174° 30' E	125	58° 00' N	176° 30' W
6	58° 50' N	176° 30' E	66	58° 20' N	175° 00' E	126	58° 00' N	175° 00' W
7	58° 50' N	177° 00' E	67	58° 20' N	175° 30' E	127	57° 50' N	174° 00' E
8	58° 50' N	177° 30' E	68	58° 20' N	176° 00' E	128	57° 50' N	174° 30' E
9	58° 50' N	178° 00' E	69	58° 20' N	176° 30' E	129	57° 50' N	175° 00' E
10	58° 50' N	178° 30' E	70	58° 20' N	177° 00' E	130	57° 50' N	175° 30' E
11	58° 50' N	179° 00' E	71	58° 20' N	177° 30' E	131	57° 50' N	176° 00' E
12	58° 50' N	179° 30' E	72	58° 20' N	178° 00' E	132	57° 50' N	176° 30' E
13	58° 50' N	180° 00' E	73	58° 20' N	178° 30' E	133	57° 50' N	177° 00' E
14	58° 50' N	179° 30' W	74	58° 20' N	179° 00' E	134	57° 50' N	177° 30' E
15	58° 50' N	178° 00' W	75	58° 20' N	179° 30' E	135	57° 50' N	178° 00' E
16	58° 50' N	178° 30' W	76	58° 20' N	180° 00' E	136	57° 50' N	178° 30' E
17	58° 50' N	177° 00' W	77	58° 20' N	179° 30' W	137	57° 50' N	179° 00' E
18	58° 50' N	177° 30' W	78	58° 20' N	178° 00' W	138	57° 50' N	179° 30' E
19	58° 50' N	176° 00' W	79	58° 20' N	178° 30' W	139	57° 50' N	180° 00' E
20	58° 50' N	176° 30' W	80	58° 20' N	177° 00' W	140	57° 50' N	179° 30' W
21	58° 50' N	175° 00' W	81	58° 20' N	177° 30' W	141	57° 50' N	178° 00' W
22	58° 40' N	174° 00' E	82	58° 20' N	176° 00' W	142	57° 50' N	178° 30' W
23	58° 40' N	174° 30' E	83	58° 20' N	176° 30' W	143	57° 50' N	177° 00' W
24	58° 40' N	175° 00' E	84	58° 20' N	175° 00' W	144	57° 50' N	177° 30' W
25	58° 40' N	175° 30' E	85	58° 10' N	174° 00' E	145	57° 50' N	176° 00' W
26	58° 40' N	176° 00' E	86	58° 10' N	174° 30' E	146	57° 50' N	176° 30' W
27	58° 40' N	176° 30' E	87	58° 10' N	175° 00' E	147	57° 50' N	175° 00' W
28	58° 40' N	177° 00' E	88	58° 10' N	175° 30' E	148	57° 40' N	174° 00' E
29	58° 40' N	177° 30' E	89	58° 10' N	176° 00' E	149	57° 40' N	174° 30' E
30	58° 40' N	178° 00' E	90	58° 10' N	176° 30' E	150	57° 40' N	175° 00' E
31	58° 40' N	178° 30' E	91	58° 10' N	177° 00' E	151	57° 40' N	175° 30' E
32	58° 40' N	179° 00' E	92	58° 10' N	177° 30' E	152	57° 40' N	176° 00' E
33	58° 40' N	179° 30' E	93	58° 10' N	178° 00' E	153	57° 40' N	176° 30' E
34	58° 40' N	180° 00' E	94	58° 10' N	178° 30' E	154	57° 40' N	177° 00' E
35	58° 40' N	179° 30' W	95	58° 10' N	179° 00' E	155	57° 40' N	177° 30' E
36	58° 40' N	178° 00' W	96	58° 10' N	179° 30' E	156	57° 40' N	178° 00' E
37	58° 40' N	178° 30' W	97	58° 10' N	180° 00' E	157	57° 40' N	178° 30' E
38	58° 40' N	177° 00' W	98	58° 10' N	179° 30' W	158	57° 40' N	179° 00' E
39	58° 40' N	177° 30' W	99	58° 10' N	178° 00' W	159	57° 40' N	179° 30' E
40	58° 40' N	176° 00' W	100	58° 10' N	178° 30' W	160	57° 40' N	180° 00' E
41	58° 40' N	176° 30' W	101	58° 10' N	177° 00' W	161	57° 40' N	179° 30' W
42	58° 40' N	175° 00' W	102	58° 10' N	177° 30' W	162	57° 40' N	178° 00' W
43	58° 30' N	174° 00' E	103	58° 10' N	176° 00' W	163	57° 40' N	178° 30' W
44	58° 30' N	174° 30' E	104	58° 10' N	176° 30' W	164	57° 40' N	177° 00' W
45	58° 30' N	175° 00' E	105	58° 10' N	175° 00' W	165	57° 40' N	177° 30' W
46	58° 30' N	175° 30' E	106	58° 00' N	174° 00' E	166	57° 40' N	176° 00' W
47	58° 30' N	176° 00' E	107	58° 00' N	174° 30' E	167	57° 40' N	176° 30' W
48	58° 30' N	176° 30' E	108	58° 00' N	175° 00' E	168	57° 40' N	175° 00' W
49	58° 30' N	177° 00' E	109	58° 00' N	175° 30' E	169	57° 30' N	174° 00' E
50	58° 30' N	177° 30' E	110	58° 00' N	176° 00' E	170	57° 30' N	174° 30' E
51	58° 30' N	178° 00' E	111	58° 00' N	176° 30' E	171	57° 30' N	175° 00' E
52	58° 30' N	178° 30' E	112	58° 00' N	177° 00' E	172	57° 30' N	175° 30' E
53	58° 30' N	179° 00' E	113	58° 00' N	177° 30' E	173	57° 30' N	176° 00' E
54	58° 30' N	179° 30' E	114	58° 00' N	178° 00' E	174	57° 30' N	176° 30' E
55	58° 30' N	180° 00' E	115	58° 00' N	178° 30' E	175	57° 30' N	177° 00' E
56	58° 30' N	179° 30' W	116	58° 00' N	179° 00' E	176	57° 30' N	177° 30' E
57	58° 30' N	178° 00' W	117	58° 00' N	179° 30' E	177	57° 30' N	178° 00' E
58	58° 30' N	178° 30' W	118	58° 00' N	180° 00' E	178	57° 30' N	178° 30' E
59	58° 30' N	177° 00' W	119	58° 00' N	179° 30' W	179	57° 30' N	179° 00' E
60	58° 30' N	177° 30' W	120	58° 00' N	178° 00' W	180	57° 30' N	179° 30' E

Block No.	Latitude	Longitude	Block No.	Latitude	Longitude	Block No.	Latitude	Longitude
181	57° 30' N	180° 00' E	241	57° 00' N	178° 30' E	301	56° 30' N	177° 00' E
182	57° 30' N	179° 30' W	242	57° 00' N	179° 00' E	302	56° 30' N	177° 30' E
183	57° 30' N	178° 00' W	243	57° 00' N	179° 30' E	303	56° 30' N	178° 00' E
184	57° 30' N	178° 30' W	244	57° 00' N	180° 00' E	304	56° 30' N	178° 30' E
185	57° 30' N	177° 00' W	245	57° 00' N	179° 30' W	305	56° 30' N	179° 00' E
186	57° 30' N	177° 30' W	246	57° 00' N	178° 00' W	306	56° 30' N	179° 30' E
187	57° 30' N	176° 00' W	247	57° 00' N	178° 30' W	307	56° 30' N	180° 00' E
188	57° 30' N	176° 30' W	248	57° 00' N	177° 00' W	308	56° 30' N	179° 30' W
189	57° 30' N	175° 00' W	249	57° 00' N	177° 30' W	309	56° 30' N	178° 00' W
190	57° 20' N	174° 00' E	250	57° 00' N	176° 00' W	310	56° 30' N	178° 30' W
191	57° 20' N	174° 30' E	251	57° 00' N	176° 30' W	311	56° 30' N	177° 00' W
192	57° 20' N	175° 00' E	252	57° 00' N	175° 00' W	312	56° 30' N	177° 30' W
193	57° 20' N	175° 30' E	253	56° 50' N	174° 00' E	313	56° 30' N	176° 00' W
194	57° 20' N	176° 00' E	254	56° 50' N	174° 30' E	314	56° 30' N	176° 30' W
195	57° 20' N	176° 30' E	255	56° 50' N	175° 00' E	315	56° 30' N	175° 00' W
196	57° 20' N	177° 00' E	256	56° 50' N	175° 30' E	316	56° 20' N	174° 00' E
197	57° 20' N	177° 30' E	257	56° 50' N	176° 00' E	317	56° 20' N	174° 30' E
198	57° 20' N	178° 00' E	258	56° 50' N	176° 30' E	318	56° 20' N	175° 00' E
199	57° 20' N	178° 30' E	259	56° 50' N	177° 00' E	319	56° 20' N	175° 30' E
200	57° 20' N	179° 00' E	260	56° 50' N	177° 30' E	320	56° 20' N	176° 00' E
201	57° 20' N	179° 30' E	261	56° 50' N	178° 00' E	321	56° 20' N	176° 30' E
202	57° 20' N	180° 00' E	262	56° 50' N	178° 30' E	322	56° 20' N	177° 00' E
203	57° 20' N	179° 30' W	263	56° 50' N	179° 00' E	323	56° 20' N	177° 30' E
204	57° 20' N	178° 00' W	264	56° 50' N	179° 30' E	324	56° 20' N	178° 00' E
205	57° 20' N	178° 30' W	265	56° 50' N	180° 00' E	325	56° 20' N	178° 30' E
206	57° 20' N	177° 00' W	266	56° 50' N	179° 30' W	326	56° 20' N	179° 00' E
207	57° 20' N	177° 30' W	267	56° 50' N	178° 00' W	327	56° 20' N	179° 30' E
208	57° 20' N	176° 00' W	268	56° 50' N	178° 30' W	328	56° 20' N	180° 00' E
209	57° 20' N	176° 30' W	269	56° 50' N	177° 00' W	329	56° 20' N	179° 30' W
210	57° 20' N	175° 00' W	270	56° 50' N	177° 30' W	330	56° 20' N	178° 00' W
211	57° 10' N	174° 00' E	271	56° 50' N	176° 00' W	331	56° 20' N	178° 30' W
212	57° 10' N	174° 30' E	272	56° 50' N	176° 30' W	332	56° 20' N	177° 00' W
213	57° 10' N	175° 00' E	273	56° 50' N	175° 00' W	333	56° 20' N	177° 30' W
214	57° 10' N	175° 30' E	274	56° 40' N	174° 00' E	334	56° 20' N	176° 00' W
215	57° 10' N	176° 00' E	275	56° 40' N	174° 30' E	335	56° 20' N	176° 30' W
216	57° 10' N	176° 30' E	276	56° 40' N	175° 00' E	336	56° 20' N	175° 00' W
217	57° 10' N	177° 00' E	277	56° 40' N	175° 30' E	337	56° 10' N	174° 00' E
218	57° 10' N	177° 30' E	278	56° 40' N	176° 00' E	338	56° 10' N	174° 30' E
219	57° 10' N	178° 00' E	279	56° 40' N	176° 30' E	339	56° 10' N	175° 00' E
220	57° 10' N	178° 30' E	280	56° 40' N	177° 00' E	340	56° 10' N	175° 30' E
221	57° 10' N	179° 00' E	281	56° 40' N	177° 30' E	341	56° 10' N	176° 00' E
222	57° 10' N	179° 30' E	282	56° 40' N	178° 00' E	342	56° 10' N	176° 30' E
223	57° 10' N	180° 00' E	283	56° 40' N	178° 30' E	343	56° 10' N	177° 00' E
224	57° 10' N	179° 30' W	284	56° 40' N	179° 00' E	344	56° 10' N	177° 30' E
225	57° 10' N	178° 00' W	285	56° 40' N	179° 30' E	345	56° 10' N	178° 00' E
226	57° 10' N	178° 30' W	286	56° 40' N	180° 00' E	346	56° 10' N	178° 30' E
227	57° 10' N	177° 00' W	287	56° 40' N	179° 30' W	347	56° 10' N	179° 00' E
228	57° 10' N	177° 30' W	288	56° 40' N	178° 00' W	348	56° 10' N	179° 30' E
229	57° 10' N	176° 00' W	289	56° 40' N	178° 30' W	349	56° 10' N	180° 00' E
230	57° 10' N	176° 30' W	290	56° 40' N	177° 00' W	350	56° 10' N	179° 30' W
231	57° 10' N	175° 00' W	291	56° 40' N	177° 30' W	351	56° 10' N	178° 00' W
232	57° 00' N	174° 00' E	292	56° 40' N	176° 00' W	352	56° 10' N	178° 30' W
233	57° 00' N	174° 30' E	293	56° 40' N	176° 30' W	353	56° 10' N	177° 00' W
234	57° 00' N	175° 00' E	294	56° 40' N	175° 00' W	354	56° 10' N	177° 30' W
235	57° 00' N	175° 30' E	295	56° 30' N	174° 00' E	355	56° 10' N	176° 00' W
236	57° 00' N	176° 00' E	296	56° 30' N	174° 30' E	356	56° 10' N	176° 30' W
237	57° 00' N	176° 30' E	297	56° 30' N	175° 00' E	357	56° 10' N	175° 00' W
238	57° 00' N	177° 00' E	298	56° 30' N	175° 30' E	358	56° 00' N	174° 00' E
239	57° 00' N	177° 30' E	299	56° 30' N	176° 00' E	359	56° 00' N	174° 30' E
240	57° 00' N	178° 00' E	300	56° 30' N	176° 30' E	360	56° 00' N	175° 00' E

Block No.	Latitude	Longitude	Block No.	Latitude	Longitude	Block No.	Latitude	Longitude
361	56° 00' N	175° 30' E	421	55° 30' N	174° 00' E	481	55° 10' N	176° 00' W
362	56° 00' N	176° 00' E	422	55° 30' N	174° 30' E	482	55° 10' N	176° 30' W
363	56° 00' N	176° 30' E	423	55° 30' N	175° 00' E	483	55° 10' N	175° 00' W
364	56° 00' N	177° 00' E	424	55° 30' N	175° 30' E	484	55° 00' N	174° 00' E
365	56° 00' N	177° 30' E	425	55° 30' N	176° 00' E	485	55° 00' N	174° 30' E
366	56° 00' N	178° 00' E	426	55° 30' N	176° 30' E	486	55° 00' N	175° 00' E
367	56° 00' N	178° 30' E	427	55° 30' N	177° 00' E	487	55° 00' N	175° 30' E
368	56° 00' N	179° 00' E	428	55° 30' N	177° 30' E	488	55° 00' N	176° 00' E
369	56° 00' N	179° 30' E	429	55° 30' N	178° 00' E	489	55° 00' N	176° 30' E
370	56° 00' N	180° 00' E	430	55° 30' N	178° 30' E	490	55° 00' N	177° 00' E
371	56° 00' N	179° 30' W	431	55° 30' N	179° 00' E	491	55° 00' N	177° 30' E
372	56° 00' N	178° 00' W	432	55° 30' N	179° 30' E	492	55° 00' N	178° 00' E
373	56° 00' N	178° 30' W	433	55° 30' N	180° 00' E	493	55° 00' N	178° 30' E
374	56° 00' N	177° 00' W	434	55° 30' N	179° 30' W	494	55° 00' N	179° 00' E
375	56° 00' N	177° 30' W	435	55° 30' N	178° 00' W	495	55° 00' N	179° 30' E
376	56° 00' N	176° 00' W	436	55° 30' N	178° 30' W	496	55° 00' N	180° 00' E
377	56° 00' N	176° 30' W	437	55° 30' N	177° 00' W	497	55° 00' N	179° 30' W
378	56° 00' N	175° 00' W	438	55° 30' N	177° 30' W	498	55° 00' N	178° 00' W
379	55° 50' N	174° 00' E	439	55° 30' N	176° 00' W	499	55° 00' N	178° 30' W
380	55° 50' N	174° 30' E	440	55° 30' N	176° 30' W	500	55° 00' N	177° 00' W
381	55° 50' N	175° 00' E	441	55° 30' N	175° 00' W	501	55° 00' N	177° 30' W
382	55° 50' N	175° 30' E	442	55° 20' N	174° 00' E	502	55° 00' N	176° 00' W
383	55° 50' N	176° 00' E	443	55° 20' N	174° 30' E	503	55° 00' N	176° 30' W
384	55° 50' N	176° 30' E	444	55° 20' N	175° 00' E	504	55° 00' N	175° 00' W
385	55° 50' N	177° 00' E	445	55° 20' N	175° 30' E			
386	55° 50' N	177° 30' E	446	55° 20' N	176° 00' E			
387	55° 50' N	178° 00' E	447	55° 20' N	176° 30' E			
388	55° 50' N	178° 30' E	448	55° 20' N	177° 00' E			
389	55° 50' N	179° 00' E	449	55° 20' N	177° 30' E			
390	55° 50' N	179° 30' E	450	55° 20' N	178° 00' E			
391	55° 50' N	180° 00' E	451	55° 20' N	178° 30' E			
392	55° 50' N	179° 30' W	452	55° 20' N	179° 00' E			
393	55° 50' N	178° 00' W	453	55° 20' N	179° 30' E			
394	55° 50' N	178° 30' W	454	55° 20' N	180° 00' E			
395	55° 50' N	177° 00' W	455	55° 20' N	179° 30' W			
396	55° 50' N	177° 30' W	456	55° 20' N	178° 00' W			
397	55° 50' N	176° 00' W	457	55° 20' N	178° 30' W			
398	55° 50' N	176° 30' W	458	55° 20' N	177° 00' W			
399	55° 50' N	175° 00' W	459	55° 20' N	177° 30' W			
400	55° 40' N	174° 00' E	460	55° 20' N	176° 00' W			
401	55° 40' N	174° 30' E	461	55° 20' N	176° 30' W			
402	55° 40' N	175° 00' E	462	55° 20' N	175° 00' W			
403	55° 40' N	175° 30' E	463	55° 10' N	174° 00' E			
404	55° 40' N	176° 00' E	464	55° 10' N	174° 30' E			
405	55° 40' N	176° 30' E	465	55° 10' N	175° 00' E			
406	55° 40' N	177° 00' E	466	55° 10' N	175° 30' E			
407	55° 40' N	177° 30' E	467	55° 10' N	176° 00' E			
408	55° 40' N	178° 00' E	468	55° 10' N	176° 30' E			
409	55° 40' N	178° 30' E	469	55° 10' N	177° 00' E			
410	55° 40' N	179° 00' E	470	55° 10' N	177° 30' E			
411	55° 40' N	179° 30' E	471	55° 10' N	178° 00' E			
412	55° 40' N	180° 00' E	472	55° 10' N	178° 30' E			
413	55° 40' N	179° 30' W	473	55° 10' N	179° 00' E			
414	55° 40' N	178° 00' W	474	55° 10' N	179° 30' E			
415	55° 40' N	178° 30' W	475	55° 10' N	180° 00' E			
416	55° 40' N	177° 00' W	476	55° 10' N	179° 30' W			
417	55° 40' N	177° 30' W	477	55° 10' N	178° 00' W			
418	55° 40' N	176° 00' W	478	55° 10' N	178° 30' W			
419	55° 40' N	176° 30' W	479	55° 10' N	177° 00' W			
420	55° 40' N	175° 00' W	480	55° 10' N	177° 30' W			

**Tab 5**

**Polish catch, effort, and CPUE data  
by type of vessel fishing in Donut Hole area  
during 1985-1991**

Table 16. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1985 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
January 85		B-414	6	269	44.9
		B-417	23	875	38.1
		B-418	31	1513	48.8
		B-419	7	323	46.2
		B-407	7	382	54.6
	Total	74	3363	45.4	
February 85		B-414	46	2319	50.4
		B-417	75	3283	43.8
		B-418	62	3085	49.8
		B-419	54	2735	50.6
		B-407	56	4564	81.5
	Total	293	15986	54.6	
March 85		B-414	37	1436	38.8
		B-417	87	3952	45.4
		B-418	35	1338	38.2
		B-419	38	1211	31.9
		B-407	21	1048	49.9
	Total	218	8984	41.2	
April 85		B-414	67	3331	49.7
		B-417	128	6873	53.7
		B-418	70	3680	52.6
		B-419	46	2032	44.2
		B-407	46	2839	61.7
	Total	357	18756	52.5	
May 85		B-414	78	4644	59.5
		B-417	142	7737	54.5
		B-418	107	5721	53.5
		B-419	81	4902	60.5
		B-407	66	5281	80.0
		Total	474	28284	59.7
June 85		B-414	64	2989	46.7
		B-417	103	4259	41.3
		B-418	87	3174	36.5
		B-419	55	2639	48.0
		B-407	64	3397	53.1
	Total	373	16458	44.1	
July 85		B-414	1	4	4.0
		Total	1	4	4.0
December 85		B-414	50	3008	60.2
		B-417	130	7417	57.1
		B-418	73	3694	50.6
		B-419	53	2968	56.0
		B-407	34	2577	75.8
	Total	340	19663	57.8	
Grand total			2130	111498	52.3



Table 17. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1986 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
January 86		B-414	77	4302	55.9
		B-417	114	6156	54.0
		B-418	165	8330	50.5
		B-419	106	6085	57.4
		B-407	81	6300	77.8
		Total	543	31172	57.4
February 86		B-414	53	2664	50.3
		B-417	127	5388	42.4
		B-418	150	5708	38.1
		B-419	86	3726	43.3
		B-407	55	3436	62.5
		Total	471	20921	44.4
March 86		B-414	46	2294	49.9
		B-417	127	4621	36.4
		B-418	166	5191	31.3
		B-419	45	2069	46.0
		B-407	57	3432	60.2
		Total	441	17606	39.9
April 86		B-414	56	3315	59.2
		B-417	150	9099	60.7
		B-418	79	4272	54.1
		B-419	83	4759	57.3
		B-407	57	4315	75.7
		Total	425	25759	60.6
May 86		B-414	43	1707	39.7
		B-417	124	5771	46.5
		B-418	61	1870	30.7
		B-419	51	2383	46.7
		B-407	78	5080	65.1
		Total	357	16812	47.1
June 86		B-414	4	136	33.9
		B-417	11	189	17.2
		B-418	71	2223	31.3
		B-419	4	43	10.7
		B-407	53	2356	44.4
		Total	143	4946	34.6
July 86		B407	1	46	45.6
		B418	2	28	14.1
		Total	3	74	24.6
August 86		no records			
October 86		no records			
November 86		B-414	49	2058	42.0
		B-417	96	3933	41.0
		B-418	87	3154	36.3
		B-419	47	1898	40.4
		B-407	33	2050	62.1
		Total	312	13092	42.0
December 86		B-414	65	3132	48.2
		B-417	179	7409	41.4
		B-418	166	6353	38.3
		B-419	109	4460	40.9
		B-407	47	3188	67.8
		Total	566	24542	43.4
Grand total			3264	154998	47.5

Table 18. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1987 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
January 87		B-414	123	6515	53.0
		B-417	227	10623	46.8
		B-418	261	10942	41.9
		B-419	92	5117	55.6
		B-407	58	5007	86.3
	Total	761	38204	50.2	
February 87		B-414	136	6380	46.9
		B-417	177	6522	36.8
		B-418	276	9540	34.6
		B-419	96	4334	45.1
		B-407	46	3514	76.4
	Total	731	30290	41.4	
March 87		B-414	89	2248	25.3
		B-417	143	3927	27.5
		B-418	203	4765	23.5
		B-419	48	1162	24.2
		B-407	45	939	20.9
	Total	528	13042	24.7	
April 87		B-407	39	2847	73.0
		B-414	124	7181	57.9
		B-417	183	10523	57.5
		B-418	141	7137	50.6
		B-419	39	1849	47.4
		B-408	15	613	40.8
	Total	541	30149	55.7	
May 87		B-407	56	3406	60.8
		B-414	134	6753	50.4
		B-417	190	8919	46.9
		B-418	69	2875	41.7
		B-419	133	5595	42.1
		B-408	30	1358	45.3
	Total	612	28906	47.2	
June 87		B-407	55	3187	57.9
		B-414	101	4418	43.7
		B-417	178	7064	39.7
		B-418	58	2508	43.2
		B-419	142	6091	42.9
		B-408	20	857	42.8
	Total	554	24125	43.5	
July 87		B-407	41	3297	80.4
		B-414	67	4205	62.8
		B-417	60	3095	51.6
		B-418	28	1832	65.4
		B-419	60	3440	57.3
		Total	256	15868	62.0
November 87		B-407	16	1259	78.7
		B-414	40	2626	65.6
		B-417	19	689	36.2
		B-418	106	4858	45.8
		B-419	66	3095	46.9
		B-408	15	814	54.3
	Total	262	13340	50.9	
December 87		B-407	30	1828	60.9
		B-414	94	4952	52.7
		B-417	123	4644	37.8
		B-418	263	10081	38.3
		B-419	128	5629	44.0
		B-408	48	3582	74.6
	Total	686	30716	44.8	
Grand total			4931	224640	45.6

Table 19. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1988 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
January 88		B-407	69	3089	44.8
		B-414	116	4664	40.2
		B-417	233	7804	33.5
		B-418	244	8565	35.1
		B-419	133	5341	40.2
		B-408	59	2913	49.4
	Total	854	32376	37.9	
February 88		B-407	68	815	12.0
		B-414	91	714	7.8
		B-417	201	2105	10.5
		B-418	216	2279	10.6
		B-419	86	791	9.2
		B-408	37	379	10.2
	Total	699	7081	10.1	
March 88		B-407	52	1096	21.1
		B-414	97	1983	20.4
		B-417	234	3325	14.2
		B-418	129	1760	13.6
		B-419	46	779	16.9
		B-408	18	397	22.0
	Total	576	9340	16.2	
April 88		B-407	86	8763	101.9
		B-414	104	6102	58.7
		B-417	170	12216	71.9
		B-418	126	7025	55.8
		B-419	121	6456	53.4
		B-408	54	3644	67.5
	Total	661	44207	66.9	
May 88		B-407	42	1937	46.1
		B-414	39	1065	27.3
		B-417	128	3772	29.5
		B-418	125	2811	22.5
		B-419	88	2376	27.0
		B-408	44	1327	30.2
	Total	466	13288	28.5	
June 88		B-407	83	7055	85.0
		B-414	57	3227	56.6
		B-417	163	10246	62.9
		B-418	79	4127	52.2
		B-419	142	8397	59.1
		B-408	30	2365	78.8
	Total	554	35418	63.9	

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
July 88		B-407	73	6195	84.9
		B-414	33	2118	64.2
		B-417	127	8374	65.9
		B-418	27	1349	50.0
		B-419	119	6350	53.4
		B-408	26	1869	71.9
	Total	405	26255	64.8	
August 88		B-407	74	5503	74.4
		B-417	137	6697	48.9
		B-418	2	91	45.7
		B-419	60	2710	45.2
		B-408	24	1664	69.3
		Total	297	16665	56.1
September 88		B-407	35	1903	54.4
		B-417	73	2364	32.4
		B-419	15	459	30.6
	Total	123	4726	38.4	
October 88		B-414	14	849	60.7
		B-417	30	1640	54.7
		B-418	18	1112	61.8
		B-419	18	824	45.8
		B-408	41	2724	66.4
	Total	121	7149	59.1	
November 88		B-407	51	4463	87.5
		B-414	52	3075	59.1
		B-417	100	5716	57.2
		B-418	125	7322	58.6
		B-419	63	3719	59.0
		B-408	58	4386	75.6
	Total	449	28682	63.9	
December 88		B-407	82	5853	71.4
		B-414	159	5922	37.2
		B-417	227	11489	50.6
		B-418	252	12478	49.5
		B-419	79	2960	37.5
		B-408	55	3177	57.8
	Total	854	41880	49.0	
Grand total			6059	267065	44.1

Table 20. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1989 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day
January 89		B-407	65	2875	44.2
		B-414	115	5474	47.6
		B-417	231	6773	29.3
		B-418	268	6656	24.8
		B-419	89	3537	39.7
		B-408	38	2598	68.4
		B-29	6	257	42.8
	Total	812	28169	34.7	
February 89		B-407	49	752	15.3
		B-414	38	232	6.1
		B-417	136	1353	10.0
		B-418	87	832	9.6
		B-419	48	383	8.0
		B-408	4	42	10.5
	Total	362	3593	9.9	
March 89		B-407	17	695	40.9
		B-414	65	2070	31.8
		B-417	87	2024	23.3
		B-418	76	1320	17.4
		B-419	27	1124	41.6
		B-408	3	194	64.6
	Total	275	7427	27.0	
April 89		B-407	84	6996	83.3
		B-414	35	2063	58.9
		B-417	184	11276	61.3
		B-418	90	4998	55.5
		B-419	109	5405	49.6
		B-408	30	1919	64.0
	Total	532	32656	61.4	
May 89		B-407	81	7250	89.5
		B-414	37	2259	61.1
		B-417	260	16893	65.0
		B-418	140	7898	56.4
		B-419	73	4076	55.8
		B-408	55	4175	75.9
	Total	646	42552	65.9	
June 89		B-407	52	3997	76.9
		B-414	47	2001	42.6
		B-417	240	12408	51.7
		B-418	118	6050	51.3
		B-419	88	3482	39.6
		B-408	52	3247	62.4
	Total	597	31185	52.2	
July 89		B-407	30	1570	52.3
		B-414	34	1218	35.8
		B-417	224	8400	37.5
		B-418	134	5067	37.8
		B-419	99	3845	38.8
		B-408	60	3234	53.9
		Total	581	23334	40.2
August 89		B-407	8	243	30.4
		B-414	55	2280	41.5
		B-417	96	3950	41.1
		B-418	63	2767	43.9
		B-419	55	2616	47.6
		B-408	7	206	29.4
	Total	284	12062	42.5	
September 89		B-414	6	241	40.2
		B-417	32	1483	46.3
		B-418	66	2347	35.6
		B-419	51	1731	33.9
		B-408	51	2155	42.3
	Total	206	7957	38.6	
October 89		B-407	11	415	37.7
		B-414	89	2416	27.1
		B-417	177	6124	34.6
		B-418	128	3908	30.5
		B-419	19	643	33.8
		B-408	53	2223	41.9
	Total	505	16961	33.6	
November 89		B-407	71	4295	60.5
		B-414	126	5061	40.2
		B-417	178	7283	40.9
		B-418	150	6119	40.8
		B-419	9	206	22.9
		B-408	45	2353	52.3
		B-673	17	876	51.5
	Total	596	26193	43.9	
December 89		B-407	78	5574	71.5
		B-414	107	4849	45.3
		B-417	160	7998	50.0
		B-418	228	9915	43.5
		B-419	58	2205	38.0
		B-408	44	3105	70.6
		B-673	28	1563	55.8
	Total	703	35209	50.1	
Grand total			6099	267296	43.8

Table 21. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1990 (raw data)

Year	Month	Vessel type	Effort days	Catch tons	CPUE tons/day	
January 90		B-407	47	1631	34.7	
		B-414	74	1608	21.7	
		B-417	101	2211	21.9	
		B-418	199	3023	15.2	
		B-419	94	1681	17.9	
		B-408	22	896	40.7	
		B-673	10	433	43.3	
		B-29	1	48	47.9	
		B-89	5	7	1.5	
	Total	553	11537	20.9		
February 90		B-407	2	0	0.1	
		B-417	54	297	5.5	
		B-418	70	270	3.9	
		B-419	49	324	6.6	
		B-673	2	0	0.1	
	Total	177	891	5.0		
March 90		B-407	17	473	27.8	
		B-408	15	423	28.2	
		B-414	18	401	22.3	
		B-417	37	771	20.8	
		B-418	39	504	12.9	
		B-419	23	489	21.2	
		B-673	12	421	35.1	
		B-89	2	10	5.0	
	Total	163	3490	21.4		
April 90		B-407	89	5991	67.3	
		B-408	60	3643	60.7	
		B-414	116	5142	44.3	
		B-417	221	10445	47.3	
		B-418	256	10597	41.4	
		B-419	121	4346	35.9	
		B-673	52	3016	58.0	
		B-89	30	1166	38.9	
	Total	945	44347	46.9		
May 90		B-407	85	2437	28.7	
		B-408	61	1770	29.0	
		B-414	95	2139	22.5	
		B-417	179	4188	23.4	
		B-418	278	5169	18.6	
		B-419	69	1249	18.1	
		B-673	59	1869	31.7	
		B-89	27	654	24.2	
		B-29	1	32	32.2	
	Total	854	19508	22.8		
June 90		B-407	77	4953	64.3	
		B-408	46	3262	70.9	
		B-414	60	3101	51.7	
		B-417	161	8704	54.1	
		B-418	229	10385	45.3	
		B-419	105	4556	43.4	
		B-673	49	3643	74.3	
		B-89	29	1272	43.8	
	Total	756	39875	52.7		
July 90		B-407	9	161	17.8	
		B-408	22	708	32.2	
		B-414	26	569	21.9	
		B-417	83	1929	23.2	
		B-418	183	3796	20.7	
		B-419	105	2623	25.0	
		B-673	45	2208	49.1	
		B-89	20	486	24.3	
			Total	493	12479	25.3
		August 90		B-407	31	1264
B-408	56			3074	54.9	
B-414	87			2736	31.5	
B-417	118			4463	37.8	
B-418	143			3432	24.0	
B-419	97			3841	39.6	
B-673	86			5319	61.8	
B-89	28			901	32.2	
	Total	646	25029	38.7		
September 90		B-407	25	737	29.5	
		B-408	39	1256	32.2	
		B-414	92	2290	24.9	
		B-417	138	4408	31.9	
		B-418	114	2014	17.7	
		B-419	62	1686	27.2	
		B-673	93	3855	41.5	
		B-89	26	517	19.9	
	Total	589	16763	28.5		
October 90		B-407	86	2939	34.2	
		B-408	29	1068	36.8	
		B-414	133	3978	29.9	
		B-417	172	5756	33.5	
		B-418	269	6923	25.7	
		B-419	6	191	31.9	
		B-673	88	4279	48.6	
		B-89	28	865	30.9	
	Total	811	25999	32.1		
November 90		B-407	52	1488	28.6	
		B-408	41	764	18.6	
		B-414	116	2578	22.2	
		B-417	140	2570	18.4	
		B-418	185	2843	15.4	
		B-419	53	558	10.5	
		B-673	85	2867	33.7	
		B-89	20	344	17.2	
	Total	692	14011	20.2		
December 90		B-407	65	760	11.7	
		B-408	37	374	10.1	
		B-414	116	769	6.6	
		B-417	197	1218	6.2	
		B-418	224	1244	5.6	
		B-419	64	599	9.4	
		B-673	92	1641	17.8	
		B-89	24	120	5.0	
	Total	819	6725	8.2		
Grand total			7498	220655	29.4	

Table 22. Polish catch, effort and CPUE data by type of vessel fishing in Donut hole area in 1991 (raw data)

Year Month	Vessel type	Effort days	Catch tons	CPUE tons/day	
January 91	B-407	4	17	4.4	
	B-408	7	55	7.9	
	B-414	43	231	5.4	
	B-417	59	211	3.6	
	B-418	35	145	4.1	
	B-419	29	157	5.4	
	B-673	30	548	18.3	
	Total	207	1365	6.6	
February 91	no records				
March 91	B-407	6	27	4.5	
	B-414	15	104	6.9	
	B-417	9	131	14.6	
	B-418	28	128	4.6	
	B-89	6	26	4.4	
	B-673	17	80	4.7	
	Total	81	496	6.1	
April 91	B-407	57	2429	42.6	
	B-408	5	389	77.9	
	B-414	124	3834	30.9	
	B-417	120	3989	33.2	
	B-418	193	5466	28.3	
	B-419	41	1118	27.3	
	B-673	76	3399	44.7	
	B-89	31	820	26.4	
	Total	647	21445	33.1	
May 91	B-407	38	779	20.5	
	B-408	12	231	19.3	
	B-414	96	1414	14.7	
	B-417	109	1570	14.4	
	B-418	134	1564	11.7	
	B-419	67	1085	16.2	
	B-673	73	1515	20.8	
	B-89	26	338	13.0	
		Total	555	8496	15.3
June 91	B-407	50	855	17.1	
	B-408	17	275	16.2	
	B-414	109	1729	15.9	
	B-417	211	2723	12.9	
	B-418	156	1783	11.4	
	B-419	87	1508	17.3	
	B-673	74	1119	15.1	
	B-89	16	146	9.1	
		Total	720	10137	14.1
July 91	B-407	54	1096	20.3	
	B-408	26	683	26.3	
	B-414	101	1935	19.2	
	B-417	134	1999	14.9	
	B-418	111	1392	12.5	
	B-419	72	1428	19.8	
	B-673	105	2420	23.0	
	Total	603	10952	18.2	
August 91	B-407	17	379	22.3	
	B-408	20	515	25.7	
	B-414	62	731	11.8	
	B-417	42	389	9.3	
	B-419	24	336	14.0	
	B-673	52	1337	25.7	
		Total	217	3687	17.0
September 91	B-407	2	20	10.2	
	B-408	2	20	10.2	
	B-414	1	1	1.4	
	B-419	6	39	6.5	
	Total	11	81	7.4	
Grand total			3041	56659	18.6

**Tab 6**

**Data Base of Polish catches of Pollock  
in Donut Hole area by Big Statistical Blocks  
and Geographical positions  
during 1985-1991**

Table 23. Data base of Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by big statistical blocks (lower left corner 30' latitude x 1° longitude) by months during 1985 - 1991

Year	Month	Block no	Latitude	Longitude	Catch
1985	1	52	56° 30' N	179° 00' W	24
1985	1	61	56° 00' N	179° 00' E	85
1985	1	63	56° 00' N	179° 00' W	76
1985	1	73	55° 30' N	180° 00' E	247
1985	1	74	55° 30' N	179° 00' W	1836
1985	1	75	55° 30' N	178° 00' W	676
1985	1	76	55° 30' N	177° 00' W	88
1985	1	85	55° 00' N	179° 00' W	283
1985	1	86	55° 00' N	178° 00' W	92
1985	2	52	56° 30' N	179° 00' W	77
1985	2	73	55° 30' N	180° 00' E	1053
1985	2	74	55° 30' N	179° 00' W	3773
1985	2	75	55° 30' N	178° 00' W	7561
1985	2	76	55° 30' N	177° 00' W	3829
1985	2	84	55° 00' N	180° 00' E	307
1985	2	85	55° 00' N	179° 00' W	77
1985	2	86	55° 00' N	178° 00' W	277
1985	3	7	58° 30' N	180° 00' E	70
1985	3	32	57° 30' N	177° 00' W	58
1985	3	64	56° 00' N	178° 00' W	268
1985	3	75	55° 30' N	178° 00' W	2660
1985	3	76	55° 30' N	177° 00' W	4742
1985	3	77	55° 30' N	176° 00' W	24
1985	3	86	55° 00' N	178° 00' W	1350
1985	3	87	55° 00' N	177° 00' W	859
1985	4	18	58° 00' N	180° 00' E	1267
1985	4	19	58° 00' N	179° 00' W	283
1985	4	29	57° 30' N	180° 00' E	2268
1985	4	30	57° 30' N	179° 00' W	2495
1985	4	40	57° 00' N	180° 00' E	1535
1985	4	41	57° 00' N	179° 00' W	679
1985	4	43	57° 00' N	177° 00' W	60
1985	4	51	56° 30' N	180° 00' E	305
1985	4	52	56° 30' N	179° 00' W	771
1985	4	53	56° 30' N	178° 00' W	1226
1985	4	64	56° 00' N	178° 00' W	1325
1985	4	65	56° 00' N	177° 00' W	876
1985	4	75	55° 30' N	178° 00' W	643
1985	4	76	55° 30' N	177° 00' W	3695



Year	Month	Block no	Latitude	Longitude	Catch
1985	4	85	55° 00' N	179° 00' W	129
1985	4	86	55° 00' N	178° 00' W	486
1985	4	87	55° 00' N	177° 00' W	280
1985	4	88	55° 00' N	176° 00' W	133
1985	5	5	58° 30' N	178° 00' E	712
1985	5	8	58° 30' N	179° 00' W	3203
1985	5	16	58° 00' N	178° 00' E	3296
1985	5	20	58° 00' N	178° 00' W	849
1985	5	26	57° 30' N	177° 00' E	4557
1985	5	27	57° 30' N	178° 00' E	6485
1985	5	29	57° 30' N	180° 00' E	2260
1985	5	30	57° 30' N	179° 00' W	1798
1985	5	31	57° 30' N	178° 00' W	453
1985	5	40	57° 00' N	180° 00' E	5091
1985	5	41	57° 00' N	179° 00' W	2151
1985	6	6	58° 30' N	179° 00' E	196
1985	6	26	57° 30' N	177° 00' E	592
1985	6	27	57° 30' N	178° 00' E	337
1985	6	37	57° 00' N	177° 00' E	2045
1985	6	47	56° 30' N	176° 00' E	2282
1985	6	48	56° 30' N	177° 00' E	902
1985	6	49	56° 30' N	178° 00' E	327
1985	6	50	56° 30' N	179° 00' E	171
1985	6	51	56° 30' N	180° 00' E	743
1985	6	53	56° 30' N	178° 00' W	347
1985	6	54	56° 30' N	177° 00' W	18
1985	6	58	56° 00' N	176° 00' E	339
1985	6	59	56° 00' N	177° 00' E	4423
1985	6	60	56° 00' N	178° 00' E	1748
1985	6	61	56° 00' N	179° 00' E	892
1985	6	62	56° 00' N	180° 00' E	1921
1985	6	73	55° 30' N	180° 00' E	878
1985	7	59	56° 00' N	177° 00' E	94
1985	12	52	56° 30' N	179° 00' W	1487
1985	12	54	56° 30' N	177° 00' W	357
1985	12	61	56° 00' N	179° 00' E	154
1985	12	62	56° 00' N	180° 00' E	51
1985	12	63	56° 00' N	179° 00' W	2937
1985	12	64	56° 00' N	178° 00' W	6876
1985	12	71	55° 30' N	178° 00' E	48
1985	12	73	55° 30' N	180° 00' E	514
1985	12	74	55° 30' N	179° 00' W	359
1985	12	75	55° 30' N	178° 00' W	4407
1985	12	76	55° 30' N	177° 00' W	384
1985	12	86	55° 00' N	178° 00' W	342

Year	Month	Block no	Latitude	Longitude	Catch
1986	1	51	56° 30' N	180° 00' E	191
1986	1	52	56° 30' N	179° 00' W	5527
1986	1	62	56° 00' N	180° 00' E	1847
1986	1	63	56° 00' N	179° 00' W	574
1986	1	72	55° 30' N	179° 00' E	2739
1986	1	73	55° 30' N	180° 00' E	14431
1986	1	74	55° 30' N	179° 00' W	4489
1986	1	84	55° 00' N	180° 00' E	2492
1986	2	65	56° 00' N	177° 00' W	251
1986	2	73	55° 30' N	180° 00' E	5333
1986	2	74	55° 30' N	179° 00' W	3201
1986	2	75	55° 30' N	178° 00' W	4410
1986	2	76	55° 30' N	177° 00' W	6539
1986	2	84	55° 00' N	180° 00' E	180
1986	2	85	55° 00' N	179° 00' W	1010
1986	2	86	55° 00' N	178° 00' W	245
1986	3	41	57° 00' N	179° 00' W	1145
1986	3	42	57° 00' N	178° 00' W	323
1986	3	43	57° 00' N	177° 00' W	654
1986	3	52	56° 30' N	179° 00' W	653
1986	3	53	56° 30' N	178° 00' W	2607
1986	3	54	56° 30' N	177° 00' W	8370
1986	3	64	56° 00' N	178° 00' W	1130
1986	3	65	56° 00' N	177° 00' W	1130
1986	3	76	55° 30' N	177° 00' W	2109
1986	3	77	55° 30' N	176° 00' W	760
1986	3	87	55° 00' N	177° 00' W	56
1986	4	14	58° 00' N	176° 00' E	779
1986	4	15	58° 00' N	177° 00' E	277
1986	4	24	57° 30' N	175° 00' E	1718
1986	4	25	57° 30' N	176° 00' E	1707
1986	4	26	57° 30' N	177° 00' E	8350
1986	4	27	57° 30' N	178° 00' E	402
1986	4	37	57° 00' N	177° 00' E	933
1986	4	40	57° 00' N	180° 00' E	1917
1986	4	49	56° 30' N	178° 00' E	482
1986	4	50	56° 30' N	179° 00' E	1191
1986	4	51	56° 30' N	180° 00' E	6233
1986	4	52	56° 30' N	179° 00' W	2655
1986	5	14	58° 00' N	176° 00' E	4612
1986	5	15	58° 00' N	177° 00' E	5437
1986	5	16	58° 00' N	178° 00' E	68
1986	5	24	57° 30' N	175° 00' E	1087
1986	5	25	57° 30' N	176° 00' E	1972
1986	5	26	57° 30' N	177° 00' E	48
1986	5	35	57° 00' N	175° 00' E	3177
1986	5	36	57° 00' N	176° 00' E	148
1986	5	37	57° 00' N	177° 00' E	72
1986	5	39	57° 00' N	179° 00' E	30
1986	5	45	56° 30' N	174° 00' E	188
1986	5	63	56° 00' N	179° 00' W	2
1986	5	71	55° 30' N	178° 00' E	469
1986	5	72	55° 30' N	179° 00' E	143

Year	Month	Block no	Latitude	Longitude	Catch
1986	5	74	55° 30' N	179° 00' W	66
1986	5	82	55° 00' N	178° 00' E	154
1986	5	83	55° 00' N	179° 00' E	179
1986	6	34	57° 00' N	174° 00' E	105
1986	6	37	57° 00' N	177° 00' E	501
1986	6	45	56° 30' N	174° 00' E	619
1986	6	47	56° 30' N	176° 00' E	653
1986	6	48	56° 30' N	177° 00' E	308
1986	6	49	56° 30' N	178° 00' E	492
1986	6	57	56° 00' N	175° 00' E	987
1986	6	59	56° 00' N	177° 00' E	33
1986	6	60	56° 00' N	178° 00' E	597
1986	6	70	55° 30' N	177° 00' E	67
1986	6	71	55° 30' N	178° 00' E	134
1986	6	74	55° 30' N	179° 00' W	161
1986	6	75	55° 30' N	178° 00' W	10
1986	6	83	55° 00' N	179° 00' E	23
1986	6	84	55° 00' N	180° 00' E	183
1986	6	85	55° 00' N	179° 00' W	66
1986	7	48	56° 30' N	177° 00' E	44
1986	7	49	56° 30' N	178° 00' E	28
1986	7	59	56° 00' N	177° 00' E	120
1986	7	60	56° 00' N	178° 00' E	112
1986	7	70	55° 30' N	177° 00' E	35
1986	8	60	56° 00' N	178° 00' E	6
1986	10	37	57° 00' N	177° 00' E	185
1986	10	47	56° 30' N	176° 00' E	240
1986	10	48	56° 30' N	177° 00' E	348
1986	10	49	56° 30' N	178° 00' E	738
1986	10	50	56° 30' N	179° 00' E	232
1986	10	59	56° 00' N	177° 00' E	87
1986	10	60	56° 00' N	178° 00' E	371
1986	11	30	57° 30' N	179° 00' W	1342
1986	11	38	57° 00' N	178° 00' E	835
1986	11	41	57° 00' N	179° 00' W	71
1986	11	48	56° 30' N	177° 00' E	773
1986	11	49	56° 30' N	178° 00' E	1760
1986	11	50	56° 30' N	179° 00' E	880
1986	11	51	56° 30' N	180° 00' E	307
1986	11	52	56° 30' N	179° 00' W	2785
1986	11	53	56° 30' N	178° 00' W	113
1986	11	59	56° 00' N	177° 00' E	854
1986	11	60	56° 00' N	178° 00' E	894
1986	11	61	56° 00' N	179° 00' E	43
1986	11	71	55° 30' N	178° 00' E	1264
1986	11	72	55° 30' N	179° 00' E	1593
1986	12	39	57° 00' N	179° 00' E	424
1986	12	49	56° 30' N	178° 00' E	1698
1986	12	50	56° 30' N	179° 00' E	3138
1986	12	51	56° 30' N	180° 00' E	785
1986	12	59	56° 00' N	177° 00' E	1497
1986	12	60	56° 00' N	178° 00' E	4733
1986	12	61	56° 00' N	179° 00' E	1962
1986	12	70	55° 30' N	177° 00' E	46
1986	12	71	55° 30' N	178° 00' E	5221
1986	12	72	55° 30' N	179° 00' E	2688
1986	12	73	55° 30' N	180° 00' E	928
1986	12	74	55° 30' N	179° 00' W	105
1986	12	82	55° 00' N	178° 00' E	328
1986	12	83	55° 00' N	179° 00' E	1349
1986	12	84	55° 00' N	180° 00' E	268
1986	12	85	55° 00' N	179° 00' W	188

Year	Month	Block no	Latitude	Longitude	Catch
1987	1	59	56° 00' N	177° 00' E	265
1987	1	60	56° 00' N	178° 00' E	14810
1987	1	61	56° 00' N	179° 00' E	3279
1987	1	71	55° 30' N	178° 00' E	20483
1987	1	72	55° 30' N	179° 00' E	984
1987	1	82	55° 00' N	178° 00' E	838
1987	1	83	55° 00' N	179° 00' E	377
1987	1	86	55° 00' N	178° 00' W	34
1987	1	87	55° 00' N	177° 00' W	37
1987	2	60	56° 00' N	178° 00' E	6176
1987	2	61	56° 00' N	179° 00' E	3513
1987	2	63	56° 00' N	179° 00' W	21
1987	2	71	55° 30' N	178° 00' E	14275
1987	2	72	55° 30' N	179° 00' E	6539
1987	2	73	55° 30' N	180° 00' E	145
1987	2	74	55° 30' N	179° 00' W	70
1987	2	82	55° 00' N	178° 00' E	1267
1987	2	83	55° 00' N	179° 00' E	140
1987	3	42	57° 00' N	178° 00' W	208
1987	3	43	57° 00' N	177° 00' W	138
1987	3	52	56° 30' N	179° 00' W	17
1987	3	53	56° 30' N	178° 00' W	891
1987	3	54	56° 30' N	177° 00' W	1122
1987	3	60	56° 00' N	178° 00' E	103
1987	3	64	56° 00' N	178° 00' W	857
1987	3	65	56° 00' N	177° 00' W	1915
1987	3	71	55° 30' N	178° 00' E	2618
1987	3	72	55° 30' N	179° 00' E	348
1987	3	75	55° 30' N	178° 00' W	3959
1987	3	76	55° 30' N	177° 00' W	1426
1987	3	82	55° 00' N	178° 00' E	113
1987	4	60	56° 00' N	178° 00' E	128
1987	4	61	56° 00' N	179° 00' E	483
1987	4	70	55° 30' N	177° 00' E	1318
1987	4	71	55° 30' N	178° 00' E	3656
1987	4	72	55° 30' N	179° 00' E	1222
1987	4	73	55° 30' N	180° 00' E	2627
1987	4	74	55° 30' N	179° 00' W	1765
1987	4	75	55° 30' N	178° 00' W	832
1987	4	82	55° 00' N	178° 00' E	2025
1987	4	83	55° 00' N	179° 00' E	10484
1987	4	84	55° 00' N	180° 00' E	5207
1987	4	85	55° 00' N	179° 00' W	1416
1987	4	86	55° 00' N	178° 00' W	129
1987	5	35	57° 00' N	175° 00' E	57
1987	5	36	57° 00' N	176° 00' E	120
1987	5	38	57° 00' N	178° 00' E	717
1987	5	45	56° 30' N	174° 00' E	431
1987	5	46	56° 30' N	175° 00' E	3426
1987	5	47	56° 30' N	176° 00' E	2213
1987	5	48	56° 30' N	177° 00' E	817
1987	5	49	56° 30' N	178° 00' E	232
1987	5	50	56° 30' N	179° 00' E	3567
1987	5	51	56° 30' N	180° 00' E	438
1987	5	57	56° 00' N	175° 00' E	4127
1987	5	58	56° 00' N	176° 00' E	2642
1987	5	59	56° 00' N	177° 00' E	443
1987	5	60	56° 00' N	178° 00' E	1633
1987	5	61	56° 00' N	179° 00' E	1284
1987	5	62	56° 00' N	180° 00' E	1377
1987	5	72	55° 30' N	179° 00' E	2442

Year	Month	Block no	Latitude	Longitude	Catch
1987	5	73	55° 30' N	180° 00' E	793
1987	5	74	55° 30' N	179° 00' W	72
1987	5	83	55° 00' N	179° 00' E	2999
1987	5	84	55° 00' N	180° 00' E	508
1987	6	46	56° 30' N	175° 00' E	180
1987	6	47	56° 30' N	176° 00' E	1083
1987	6	48	56° 30' N	177° 00' E	2157
1987	6	49	56° 30' N	178° 00' E	4890
1987	6	58	56° 00' N	176° 00' E	880
1987	6	59	56° 00' N	177° 00' E	7874
1987	6	60	56° 00' N	178° 00' E	5124
1987	6	61	56° 00' N	179° 00' E	193
1987	6	70	55° 30' N	177° 00' E	131
1987	6	71	55° 30' N	178° 00' E	2000
1987	7	46	56° 30' N	175° 00' E	102
1987	7	47	56° 30' N	176° 00' E	416
1987	7	48	56° 30' N	177° 00' E	832
1987	7	49	56° 30' N	178° 00' E	1539
1987	7	59	56° 00' N	177° 00' E	2672
1987	7	60	56° 00' N	178° 00' E	2203
1987	7	61	56° 00' N	179° 00' E	45
1987	7	69	55° 30' N	176° 00' E	3858
1987	7	70	55° 30' N	177° 00' E	1377
1987	7	71	55° 30' N	178° 00' E	3113
1987	11	37	57° 00' N	177° 00' E	3114
1987	11	47	56° 30' N	176° 00' E	116
1987	11	48	56° 30' N	177° 00' E	492
1987	11	49	56° 30' N	178° 00' E	217
1987	11	58	56° 00' N	176° 00' E	226
1987	11	59	56° 00' N	177° 00' E	1812
1987	11	60	56° 00' N	178° 00' E	1474
1987	11	69	55° 30' N	176° 00' E	983
1987	11	70	55° 30' N	177° 00' E	4908
1987	12	35	57° 00' N	175° 00' E	1709
1987	12	36	57° 00' N	176° 00' E	284
1987	12	37	57° 00' N	177° 00' E	689
1987	12	38	57° 00' N	178° 00' E	52
1987	12	39	57° 00' N	179° 00' E	2455
1987	12	40	57° 00' N	180° 00' E	1823
1987	12	46	56° 30' N	175° 00' E	311
1987	12	47	56° 30' N	176° 00' E	168
1987	12	48	56° 30' N	177° 00' E	1765
1987	12	49	56° 30' N	178° 00' E	1504
1987	12	50	56° 30' N	179° 00' E	2084
1987	12	57	56° 00' N	175° 00' E	1022
1987	12	58	56° 00' N	176° 00' E	34
1987	12	59	56° 00' N	177° 00' E	1496
1987	12	60	56° 00' N	178° 00' E	570
1987	12	61	56° 00' N	179° 00' E	1470
1987	12	62	56° 00' N	180° 00' E	226
1987	12	65	56° 00' N	177° 00' W	47
1987	12	68	55° 30' N	175° 00' E	360
1987	12	69	55° 30' N	176° 00' E	4835
1987	12	70	55° 30' N	177° 00' E	47
1987	12	71	55° 30' N	178° 00' E	1131
1987	12	72	55° 30' N	179° 00' E	435
1987	12	73	55° 30' N	180° 00' E	156
1987	12	74	55° 30' N	179° 00' W	2079
1987	12	77	55° 30' N	176° 00' W	222
1987	12	83	55° 00' N	179° 00' E	735

Year	Month	Block no	Latitude	Longitude	Catch
1988	1	42	57° 00' N	178° 00' W	339
1988	1	51	56° 30' N	180° 00' E	521
1988	1	52	56° 30' N	179° 00' W	4142
1988	1	53	56° 30' N	178° 00' W	4254
1988	1	57	56° 00' N	175° 00' E	1114
1988	1	58	56° 00' N	176° 00' E	78
1988	1	61	56° 00' N	179° 00' E	307
1988	1	62	56° 00' N	180° 00' E	3755
1988	1	63	56° 00' N	179° 00' W	625
1988	1	64	56° 00' N	178° 00' W	81
1988	1	65	56° 00' N	177° 00' W	2400
1988	1	68	55° 30' N	175° 00' E	118
1988	1	69	55° 30' N	176° 00' E	20
1988	1	70	55° 30' N	177° 00' E	534
1988	1	71	55° 30' N	178° 00' E	51
1988	1	72	55° 30' N	179° 00' E	5862
1988	1	73	55° 30' N	180° 00' E	1725
1988	1	74	55° 30' N	179° 00' W	3812
1988	1	76	55° 30' N	177° 00' W	2185
1988	1	84	55° 00' N	180° 00' E	4292
1988	1	85	55° 00' N	179° 00' W	2623
1988	1	87	55° 00' N	177° 00' W	2106
1988	2	18	58° 00' N	180° 00' E	36
1988	2	19	58° 00' N	179° 00' W	12
1988	2	29	57° 30' N	180° 00' E	12
1988	2	30	57° 30' N	179° 00' W	216
1988	2	31	57° 30' N	178° 00' W	21
1988	2	41	57° 00' N	179° 00' W	281
1988	2	42	57° 00' N	178° 00' W	44
1988	2	52	56° 30' N	179° 00' W	36
1988	2	63	56° 00' N	179° 00' W	3204
1988	2	64	56° 00' N	178° 00' W	369
1988	2	65	56° 00' N	177° 00' W	65
1988	2	72	55° 30' N	179° 00' E	2
1988	2	73	55° 30' N	180° 00' E	1373
1988	2	74	55° 30' N	179° 00' W	1496
1988	2	75	55° 30' N	178° 00' W	180
1988	2	76	55° 30' N	177° 00' W	340
1988	2	82	55° 00' N	178° 00' E	6
1988	2	83	55° 00' N	179° 00' E	12
1988	2	85	55° 00' N	179° 00' W	755
1988	2	86	55° 00' N	178° 00' W	216
1988	3	7	58° 30' N	180° 00' E	2
1988	3	17	58° 00' N	179° 00' E	67
1988	3	18	58° 00' N	180° 00' E	54
1988	3	19	58° 00' N	179° 00' W	18
1988	3	28	57° 30' N	179° 00' E	1
1988	3	29	57° 30' N	180° 00' E	112
1988	3	30	57° 30' N	179° 00' W	96
1988	3	40	57° 00' N	180° 00' E	30
1988	3	41	57° 00' N	179° 00' W	17
1988	3	54	56° 30' N	177° 00' W	18
1988	3	64	56° 00' N	178° 00' W	843
1988	3	65	56° 00' N	177° 00' W	5286
1988	3	76	55° 30' N	177° 00' W	2751
1988	3	84	55° 00' N	180° 00' E	14
1988	4	30	57° 30' N	179° 00' W	1831
1988	4	41	57° 00' N	179° 00' W	6341
1988	4	42	57° 00' N	178° 00' W	2849
1988	4	52	56° 30' N	179° 00' W	1806
1988	4	53	56° 30' N	178° 00' W	667
1988	4	54	56° 30' N	177° 00' W	973
1988	4	64	56° 00' N	178° 00' W	614
1988	4	74	55° 30' N	179° 00' W	1021
1988	4	75	55° 30' N	178° 00' W	6771
1988	4	76	55° 30' N	177° 00' W	16533
1988	4	85	55° 00' N	179° 00' W	1610
1988	4	86	55° 00' N	178° 00' W	7839
1988	4	87	55° 00' N	177° 00' W	823

Year	Month	Block no	Latitude	Longitude	Catch
1988	5	4	58° 30' N	177° 00' E	467
1988	5	15	58° 00' N	177° 00' E	278
1988	5	16	58° 00' N	178° 00' E	507
1988	5	18	58° 00' N	180° 00' E	268
1988	5	19	58° 00' N	179° 00' W	247
1988	5	26	57° 30' N	177° 00' E	79
1988	5	27	57° 30' N	178° 00' E	393
1988	5	30	57° 30' N	179° 00' W	128
1988	5	38	57° 00' N	178° 00' E	468
1988	5	40	57° 00' N	180° 00' E	613
1988	5	41	57° 00' N	179° 00' W	49
1988	5	48	56° 30' N	177° 00' E	90
1988	5	49	56° 30' N	178° 00' E	425
1988	5	50	56° 30' N	179° 00' E	43
1988	5	51	56° 30' N	180° 00' E	1922
1988	5	52	56° 30' N	179° 00' W	3115
1988	5	54	56° 30' N	177° 00' W	129
1988	5	58	56° 00' N	176° 00' E	94
1988	5	61	56° 00' N	179° 00' E	1462
1988	5	62	56° 00' N	180° 00' E	3620
1988	5	63	56° 00' N	179° 00' W	110
1988	5	64	56° 00' N	178° 00' W	389
1988	5	71	55° 30' N	178° 00' E	177
1988	5	73	55° 30' N	180° 00' E	33
1988	5	76	55° 30' N	177° 00' W	71
1988	6	7	58° 30' N	180° 00' E	11737
1988	6	8	58° 30' N	179° 00' W	4859
1988	6	18	58° 00' N	180° 00' E	1015
1988	6	19	58° 00' N	179° 00' W	9867
1988	6	28	57° 30' N	179° 00' E	13
1988	6	29	57° 30' N	180° 00' E	193
1988	6	30	57° 30' N	179° 00' W	379
1988	6	31	57° 30' N	178° 00' W	1551
1988	6	41	57° 00' N	179° 00' W	2333
1988	6	42	57° 00' N	178° 00' W	4471
1988	6	50	56° 30' N	179° 00' E	37
1988	6	53	56° 30' N	178° 00' W	620
1988	6	54	56° 30' N	177° 00' W	488
1988	6	59	56° 00' N	177° 00' E	39
1988	6	61	56° 00' N	179° 00' E	36
1988	6	70	55° 30' N	177° 00' E	37
1988	6	84	55° 00' N	180° 00' E	46
1988	6	86	55° 00' N	178° 00' W	70
1988	7	40	57° 00' N	180° 00' E	293
1988	7	41	57° 00' N	179° 00' W	468
1988	7	42	57° 00' N	178° 00' W	2378
1988	7	50	56° 30' N	179° 00' E	15
1988	7	53	56° 30' N	178° 00' W	2476
1988	7	54	56° 30' N	177° 00' W	1719
1988	7	57	56° 00' N	175° 00' E	1090
1988	7	61	56° 00' N	179° 00' E	44
1988	7	62	56° 00' N	180° 00' E	578
1988	7	65	56° 00' N	177° 00' W	2451
1988	7	70	55° 30' N	177° 00' E	595
1988	7	72	55° 30' N	179° 00' E	343
1988	7	74	55° 30' N	179° 00' W	122
1988	7	75	55° 30' N	178° 00' W	3304
1988	7	76	55° 30' N	177° 00' W	6675
1988	7	85	55° 00' N	179° 00' W	4016
1988	7	86	55° 00' N	178° 00' W	932
1988	7	87	55° 00' N	177° 00' W	1337

Year	Month	Block no	Latitude	Longitude	Catch
1988	8	6	58° 30' N	179° 00' E	247
1988	8	46	56° 30' N	175° 00' E	190
1988	8	47	56° 30' N	176° 00' E	227
1988	8	50	56° 30' N	179° 00' E	415
1988	8	51	56° 30' N	180° 00' E	65
1988	8	57	56° 00' N	175° 00' E	829
1988	8	58	56° 00' N	176° 00' E	1845
1988	8	59	56° 00' N	177° 00' E	620
1988	8	60	56° 00' N	178° 00' E	195
1988	8	61	56° 00' N	179° 00' E	195
1988	8	62	56° 00' N	180° 00' E	2720
1988	8	63	56° 00' N	179° 00' W	120
1988	8	65	56° 00' N	177° 00' W	1168
1988	8	68	55° 30' N	175° 00' E	140
1988	8	69	55° 30' N	176° 00' E	2968
1988	8	70	55° 30' N	177° 00' E	940
1988	8	71	55° 30' N	178° 00' E	992
1988	8	72	55° 30' N	179° 00' E	2373
1988	8	73	55° 30' N	180° 00' E	2128
1988	8	74	55° 30' N	179° 00' W	617
1988	8	76	55° 30' N	177° 00' W	177
1988	8	82	55° 00' N	178° 00' E	260
1988	9	35	57° 00' N	175° 00' E	209
1988	9	46	56° 30' N	175° 00' E	153
1988	9	47	56° 30' N	176° 00' E	121
1988	9	48	56° 30' N	177° 00' E	564
1988	9	49	56° 30' N	178° 00' E	126
1988	9	52	56° 30' N	179° 00' W	1103
1988	9	53	56° 30' N	178° 00' W	261
1988	9	57	56° 00' N	175° 00' E	472
1988	9	58	56° 00' N	176° 00' E	98
1988	9	60	56° 00' N	178° 00' E	153
1988	9	61	56° 00' N	179° 00' E	101
1988	9	63	56° 00' N	179° 00' W	515
1988	9	64	56° 00' N	178° 00' W	205
1988	9	69	55° 30' N	176° 00' E	267
1988	9	70	55° 30' N	177° 00' E	733
1988	9	74	55° 30' N	179° 00' W	555
1988	9	75	55° 30' N	178° 00' W	203



Year	Month	Block no	Latitude	Longitude	Catch
1988	10	48	56° 30' N	177° 00' E	1594
1988	10	49	56° 30' N	178° 00' E	916
1988	10	50	56° 30' N	179° 00' E	82
1988	10	51	56° 30' N	180° 00' E	1813
1988	10	52	56° 30' N	179° 00' W	59
1988	10	58	56° 00' N	176° 00' E	953
1988	10	59	56° 00' N	177° 00' E	387
1988	10	60	56° 00' N	178° 00' E	108
1988	10	61	56° 00' N	179° 00' E	1012
1988	10	62	56° 00' N	180° 00' E	67
1988	10	72	55° 30' N	179° 00' E	423
1988	11	24	57° 30' N	175° 00' E	2470
1988	11	25	57° 30' N	176° 00' E	106
1988	11	34	57° 00' N	174° 00' E	3445
1988	11	35	57° 00' N	175° 00' E	9307
1988	11	36	57° 00' N	176° 00' E	1239
1988	11	40	57° 00' N	180° 00' E	111
1988	11	46	56° 30' N	175° 00' E	1382
1988	11	48	56° 30' N	177° 00' E	2289
1988	11	49	56° 30' N	178° 00' E	905
1988	11	50	56° 30' N	179° 00' E	589
1988	11	51	56° 30' N	180° 00' E	349
1988	11	57	56° 00' N	175° 00' E	102
1988	11	58	56° 00' N	176° 00' E	114
1988	11	59	56° 00' N	177° 00' E	1892
1988	11	60	56° 00' N	178° 00' E	1160
1988	11	61	56° 00' N	179° 00' E	716
1988	11	62	56° 00' N	180° 00' E	112
1988	11	69	55° 30' N	176° 00' E	400
1988	11	70	55° 30' N	177° 00' E	1295
1988	11	71	55° 30' N	178° 00' E	1135
1988	11	72	55° 30' N	179° 00' E	224
1988	12	25	57° 30' N	176° 00' E	3801
1988	12	26	57° 30' N	177° 00' E	623
1988	12	31	57° 30' N	178° 00' W	470
1988	12	36	57° 00' N	176° 00' E	16213
1988	12	37	57° 00' N	177° 00' E	5139
1988	12	43	57° 00' N	177° 00' W	490
1988	12	45	56° 30' N	174° 00' E	445
1988	12	47	56° 30' N	176° 00' E	1071
1988	12	48	56° 30' N	177° 00' E	635
1988	12	53	56° 30' N	178° 00' W	994
1988	12	57	56° 00' N	175° 00' E	712
1988	12	60	56° 00' N	178° 00' E	5524
1988	12	61	56° 00' N	179° 00' E	2398
1988	12	63	56° 00' N	179° 00' W	2411
1988	12	65	56° 00' N	177° 00' W	1102
1988	12	70	55° 30' N	177° 00' E	819
1988	12	71	55° 30' N	178° 00' E	1691
1988	12	72	55° 30' N	179° 00' E	940
1988	12	82	55° 00' N	178° 00' E	799

Year	Month	Block no	Latitude	Longitude	Catch
1989	1	46	56° 30' N	175° 00' E	364
1989	1	57	56° 00' N	175° 00' E	1244
1989	1	59	56° 00' N	177° 00' E	1055
1989	1	60	56° 00' N	178° 00' E	5309
1989	1	61	56° 00' N	179° 00' E	342
1989	1	63	56° 00' N	179° 00' W	1413
1989	1	64	56° 00' N	178° 00' W	2546
1989	1	65	56° 00' N	177° 00' W	166
1989	1	70	55° 30' N	177° 00' E	6842
1989	1	71	55° 30' N	178° 00' E	4131
1989	1	72	55° 30' N	179° 00' E	974
1989	1	73	55° 30' N	180° 00' E	265
1989	1	74	55° 30' N	179° 00' W	1072
1989	1	75	55° 30' N	178° 00' W	178
1989	1	76	55° 30' N	177° 00' W	94
1989	1	77	55° 30' N	176° 00' W	26
1989	1	84	55° 00' N	180° 00' E	3120
1989	1	85	55° 00' N	179° 00' W	162
1989	1	86	55° 00' N	178° 00' W	89
1989	2	51	56° 30' N	180° 00' E	101
1989	2	63	56° 00' N	179° 00' W	2
1989	2	65	56° 00' N	177° 00' W	1946
1989	2	75	55° 30' N	178° 00' W	2
1989	2	76	55° 30' N	177° 00' W	1829
1989	2	87	55° 00' N	177° 00' W	287
1989	3	65	56° 00' N	177° 00' W	567
1989	3	75	55° 30' N	178° 00' W	1279
1989	3	76	55° 30' N	177° 00' W	609
1989	3	77	55° 30' N	176° 00' W	117
1989	3	86	55° 00' N	178° 00' W	3938
1989	3	87	55° 00' N	177° 00' W	978
1989	4	6	58° 30' N	179° 00' E	151
1989	4	7	58° 30' N	180° 00' E	1740
1989	4	8	58° 30' N	179° 00' W	1657
1989	4	18	58° 00' N	180° 00' E	1342
1989	4	19	58° 00' N	179° 00' W	1038
1989	4	28	57° 30' N	179° 00' E	774
1989	4	29	57° 30' N	180° 00' E	4080
1989	4	30	57° 30' N	179° 00' W	550
1989	4	31	57° 30' N	178° 00' W	1012
1989	4	40	57° 00' N	180° 00' E	460
1989	4	41	57° 00' N	179° 00' W	1628
1989	4	42	57° 00' N	178° 00' W	1523
1989	4	43	57° 00' N	177° 00' W	1900
1989	4	53	56° 30' N	178° 00' W	54
1989	4	54	56° 30' N	177° 00' W	6375
1989	4	65	56° 00' N	177° 00' W	595
1989	4	75	55° 30' N	178° 00' W	2428
1989	4	76	55° 30' N	177° 00' W	479
1989	4	85	55° 00' N	179° 00' W	188
1989	4	86	55° 00' N	178° 00' W	4599
1989	4	87	55° 00' N	177° 00' W	104

Year	Month	Block no	Latitude	Longitude	Catch
1989	5	18	58° 00' N	180° 00' E	991
1989	5	19	58° 00' N	179° 00' W	572
1989	5	30	57° 30' N	179° 00' W	666
1989	5	31	57° 30' N	178° 00' W	17688
1989	5	41	57° 00' N	179° 00' W	6793
1989	5	42	57° 00' N	178° 00' W	4718
1989	5	43	57° 00' N	177° 00' W	2835
1989	5	53	56° 30' N	178° 00' W	4141
1989	5	54	56° 30' N	177° 00' W	1551
1989	6	19	58° 00' N	179° 00' W	165
1989	6	30	57° 30' N	179° 00' W	2097
1989	6	31	57° 30' N	178° 00' W	18310
1989	6	41	57° 00' N	179° 00' W	864
1989	6	42	57° 00' N	178° 00' W	4749
1989	6	43	57° 00' N	177° 00' W	844
1989	6	52	56° 30' N	179° 00' W	1273
1989	6	53	56° 30' N	178° 00' W	1635
1989	6	54	56° 30' N	177° 00' W	102
1989	6	64	56° 00' N	178° 00' W	557
1989	6	65	56° 00' N	177° 00' W	157
1989	6	73	55° 30' N	180° 00' E	872
1989	6	74	55° 30' N	179° 00' W	995
1989	6	75	55° 30' N	178° 00' W	229
1989	7	8	58° 30' N	179° 00' W	3874
1989	7	19	58° 00' N	179° 00' W	3632
1989	7	51	56° 30' N	180° 00' E	159
1989	7	52	56° 30' N	179° 00' W	154
1989	7	53	56° 30' N	178° 00' W	1148
1989	7	54	56° 30' N	177° 00' W	1397
1989	7	63	56° 00' N	179° 00' W	73
1989	7	64	56° 00' N	178° 00' W	2616
1989	7	65	56° 00' N	177° 00' W	5698
1989	7	72	55° 30' N	179° 00' E	505
1989	7	73	55° 30' N	180° 00' E	113
1989	7	76	55° 30' N	177° 00' W	2837
1989	7	77	55° 30' N	176° 00' W	301
1989	7	83	55° 00' N	179° 00' E	86
1989	7	84	55° 00' N	180° 00' E	637
1989	7	87	55° 00' N	177° 00' W	198
1989	8	31	57° 30' N	178° 00' W	438
1989	8	40	57° 00' N	180° 00' E	372
1989	8	41	57° 00' N	179° 00' W	281
1989	8	50	56° 30' N	179° 00' E	675
1989	8	51	56° 30' N	180° 00' E	1788
1989	8	52	56° 30' N	179° 00' W	1149
1989	8	53	56° 30' N	178° 00' W	800
1989	8	54	56° 30' N	177° 00' W	1032
1989	8	62	56° 00' N	180° 00' E	433
1989	8	63	56° 00' N	179° 00' W	76
1989	8	64	56° 00' N	178° 00' W	413
1989	8	65	56° 00' N	177° 00' W	478
1989	8	73	55° 30' N	180° 00' E	612
1989	8	74	55° 30' N	179° 00' W	1590
1989	8	75	55° 30' N	178° 00' W	231
1989	8	76	55° 30' N	177° 00' W	2096

Year	Month	Block no	Latitude	Longitude	Catch
1989	9	4	58° 30' N	177° 00' E	434
1989	9	8	58° 30' N	179° 00' W	323
1989	9	15	58° 00' N	177° 00' E	92
1989	9	16	58° 00' N	178° 00' E	52
1989	9	19	58° 00' N	179° 00' W	243
1989	9	25	57° 30' N	176° 00' E	186
1989	9	26	57° 30' N	177° 00' E	320
1989	9	27	57° 30' N	178° 00' E	564
1989	9	28	57° 30' N	179° 00' E	387
1989	9	30	57° 30' N	179° 00' W	155
1989	9	36	57° 00' N	176° 00' E	207
1989	9	37	57° 00' N	177° 00' E	525
1989	9	38	57° 00' N	178° 00' E	96
1989	9	39	57° 00' N	179° 00' E	591
1989	9	40	57° 00' N	180° 00' E	140
1989	9	48	56° 30' N	177° 00' E	564
1989	9	49	56° 30' N	178° 00' E	847
1989	9	50	56° 30' N	179° 00' E	888
1989	9	52	56° 30' N	179° 00' W	141
1989	9	58	56° 00' N	176° 00' E	106
1989	9	59	56° 00' N	177° 00' E	36
1989	9	60	56° 00' N	178° 00' E	529
1989	9	61	56° 00' N	179° 00' E	1034
1989	9	63	56° 00' N	179° 00' W	267
1989	9	71	55° 30' N	178° 00' E	41
1989	10	4	58° 30' N	177° 00' E	922
1989	10	8	58° 30' N	179° 00' W	332
1989	10	14	58° 00' N	176° 00' E	2214
1989	10	15	58° 00' N	177° 00' E	1311
1989	10	20	58° 00' N	178° 00' W	641
1989	10	24	57° 30' N	175° 00' E	1438
1989	10	25	57° 30' N	176° 00' E	1098
1989	10	26	57° 30' N	177° 00' E	2675
1989	10	27	57° 30' N	178° 00' E	18
1989	10	35	57° 00' N	175° 00' E	1026
1989	10	36	57° 00' N	176° 00' E	483
1989	10	37	57° 00' N	177° 00' E	3064
1989	10	38	57° 00' N	178° 00' E	169
1989	10	48	56° 30' N	177° 00' E	96
1989	10	49	56° 30' N	178° 00' E	285
1989	10	58	56° 00' N	176° 00' E	489
1989	10	61	56° 00' N	179° 00' E	27
1989	10	65	56° 00' N	177° 00' W	130
1989	11	5	58° 30' N	178° 00' E	54
1989	11	13	58° 00' N	175° 00' E	3206
1989	11	14	58° 00' N	176° 00' E	1521
1989	11	24	57° 30' N	175° 00' E	476
1989	11	25	57° 30' N	176° 00' E	1901
1989	11	35	57° 00' N	175° 00' E	683
1989	11	37	57° 00' N	177° 00' E	266
1989	11	45	56° 30' N	174° 00' E	3660
1989	11	46	56° 30' N	175° 00' E	76
1989	11	47	56° 30' N	176° 00' E	393
1989	11	48	56° 30' N	177° 00' E	1508
1989	11	49	56° 30' N	178° 00' E	1560
1989	11	52	56° 30' N	179° 00' W	105
1989	11	53	56° 30' N	178° 00' W	379
1989	11	56	56° 00' N	174° 00' E	283
1989	11	57	56° 00' N	175° 00' E	1414
1989	11	58	56° 00' N	176° 00' E	4355
1989	11	59	56° 00' N	177° 00' E	3295
1989	11	64	56° 00' N	178° 00' W	368
1989	11	65	56° 00' N	177° 00' W	313
1989	11	69	55° 30' N	176° 00' E	297
1989	12	18	58° 00' N	180° 00' E	9
1989	12	38	57° 00' N	178° 00' E	3281
1989	12	39	57° 00' N	179° 00' E	1451
1989	12	45	56° 30' N	174° 00' E	1137
1989	12	46	56° 30' N	175° 00' E	434
1989	12	48	56° 30' N	177° 00' E	1522
1989	12	49	56° 30' N	178° 00' E	19089
1989	12	50	56° 30' N	179° 00' E	1280
1989	12	51	56° 30' N	180° 00' E	3100
1989	12	56	56° 00' N	174° 00' E	1257
1989	12	58	56° 00' N	176° 00' E	555
1989	12	59	56° 00' N	177° 00' E	210
1989	12	60	56° 00' N	178° 00' E	1215
1989	12	61	56° 00' N	179° 00' E	311

Year	Month	Block no	Latitude	Longitude	Catch
1990	1	43	57° 00' N	177° 00' W	34
1990	1	48	56° 30' N	177° 00' E	1230
1990	1	49	56° 30' N	178° 00' E	8414
1990	1	50	56° 30' N	179° 00' E	328
1990	1	51	56° 30' N	180° 00' E	19
1990	1	53	56° 30' N	178° 00' W	130
1990	1	54	56° 30' N	177° 00' W	148
1990	1	59	56° 00' N	177° 00' E	293
1990	1	60	56° 00' N	178° 00' E	620
1990	1	62	56° 00' N	180° 00' E	2
1990	1	63	56° 00' N	179° 00' W	407
1990	1	64	56° 00' N	178° 00' W	628
1990	1	65	56° 00' N	177° 00' W	172
1990	1	73	55° 30' N	180° 00' E	35
1990	1	74	55° 30' N	179° 00' W	430
1990	1	75	55° 30' N	178° 00' W	162
1990	1	76	55° 30' N	177° 00' W	92
1990	2	29	57° 30' N	180° 00' E	1
1990	2	52	56° 30' N	179° 00' W	120
1990	2	53	56° 30' N	178° 00' W	681
1990	2	63	56° 00' N	179° 00' W	20
1990	2	64	56° 00' N	178° 00' W	388
1990	2	65	56° 00' N	177° 00' W	1
1990	2	75	55° 30' N	178° 00' W	15
1990	2	76	55° 30' N	177° 00' W	25
1990	3	52	56° 30' N	179° 00' W	2
1990	3	64	56° 00' N	178° 00' W	37
1990	3	65	56° 00' N	177° 00' W	721
1990	3	76	55° 30' N	177° 00' W	1981
1990	3	77	55° 30' N	176° 00' W	195
1990	4	42	57° 00' N	178° 00' W	964
1990	4	43	57° 00' N	177° 00' W	12648
1990	4	54	56° 30' N	177° 00' W	8511
1990	4	63	56° 00' N	179° 00' W	174
1990	4	64	56° 00' N	178° 00' W	26
1990	4	65	56° 00' N	177° 00' W	1095
1990	4	73	55° 30' N	180° 00' E	431
1990	4	74	55° 30' N	179° 00' W	4225
1990	4	75	55° 30' N	178° 00' W	1987
1990	4	76	55° 30' N	177° 00' W	6933
1990	4	85	55° 00' N	179° 00' W	3187
1990	4	86	55° 00' N	178° 00' W	574
1990	4	87	55° 00' N	177° 00' W	772
1990	4	88	55° 00' N	176° 00' W	508
1990	5	6	58° 30' N	179° 00' E	155
1990	5	7	58° 30' N	180° 00' E	1921
1990	5	8	58° 30' N	179° 00' W	424
1990	5	17	58° 00' N	179° 00' E	247
1990	5	18	58° 00' N	180° 00' E	107
1990	5	19	58° 00' N	179° 00' W	393
1990	5	20	58° 00' N	178° 00' W	58
1990	5	27	57° 30' N	178° 00' E	48
1990	5	28	57° 30' N	179° 00' E	351
1990	5	29	57° 30' N	180° 00' E	713
1990	5	30	57° 30' N	179° 00' W	136
1990	5	31	57° 30' N	178° 00' W	13
1990	5	37	57° 00' N	177° 00' E	102
1990	5	39	57° 00' N	179° 00' E	844
1990	5	40	57° 00' N	180° 00' E	273
1990	5	43	57° 00' N	177° 00' W	3648
1990	5	48	56° 30' N	177° 00' E	479
1990	5	49	56° 30' N	178° 00' E	24
1990	5	51	56° 30' N	180° 00' E	19
1990	5	59	56° 00' N	177° 00' E	9
1990	5	60	56° 00' N	178° 00' E	10
1990	5	62	56° 00' N	180° 00' E	9
1990	5	63	56° 00' N	179° 00' W	29
1990	5	65	56° 00' N	177° 00' W	55
1990	5	70	55° 30' N	177° 00' E	14
1990	5	73	55° 30' N	180° 00' E	10
1990	5	74	55° 30' N	179° 00' W	919
1990	5	75	55° 30' N	178° 00' W	351
1990	5	83	55° 00' N	179° 00' E	8
1990	5	84	55° 00' N	180° 00' E	387
1990	5	85	55° 00' N	179° 00' W	9219
1990	5	87	55° 00' N	177° 00' W	55

Year	Month	Block no	Latitude	Longitude	Catch
1990	6	29	57° 30' N	180° 00' E	54
1990	6	39	57° 00' N	179° 00' E	1570
1990	6	40	57° 00' N	180° 00' E	5609
1990	6	41	57° 00' N	179° 00' W	648
1990	6	42	57° 00' N	178° 00' W	6230
1990	6	43	57° 00' N	177° 00' W	10297
1990	6	50	56° 30' N	179° 00' E	94
1990	6	51	56° 30' N	180° 00' E	1791
1990	6	52	56° 30' N	179° 00' W	2013
1990	6	53	56° 30' N	178° 00' W	3209
1990	6	54	56° 30' N	177° 00' W	6353
1990	6	62	56° 00' N	180° 00' E	350
1990	6	63	56° 00' N	179° 00' W	45
1990	6	64	56° 00' N	178° 00' W	636
1990	6	65	56° 00' N	177° 00' W	67
1990	6	74	55° 30' N	179° 00' W	145
1990	7	42	57° 00' N	178° 00' W	1758
1990	7	43	57° 00' N	177° 00' W	1154
1990	7	49	56° 30' N	178° 00' E	891
1990	7	50	56° 30' N	179° 00' E	36
1990	7	51	56° 30' N	180° 00' E	245
1990	7	52	56° 30' N	179° 00' W	191
1990	7	53	56° 30' N	178° 00' W	1722
1990	7	54	56° 30' N	177° 00' W	145
1990	7	61	56° 00' N	179° 00' E	577
1990	7	62	56° 00' N	180° 00' E	121
1990	7	63	56° 00' N	179° 00' W	745
1990	7	64	56° 00' N	178° 00' W	113
1990	7	71	55° 30' N	178° 00' E	221
1990	7	72	55° 30' N	179° 00' E	3058
1990	7	73	55° 30' N	180° 00' E	1366
1990	7	74	55° 30' N	179° 00' W	190
1990	7	75	55° 30' N	178° 00' W	219
1990	7	76	55° 30' N	177° 00' W	989
1990	8	40	57° 00' N	180° 00' E	202
1990	8	42	57° 00' N	178° 00' W	191
1990	8	43	57° 00' N	177° 00' W	2567
1990	8	50	56° 30' N	179° 00' E	1747
1990	8	51	56° 30' N	180° 00' E	535
1990	8	54	56° 30' N	177° 00' W	2541
1990	8	59	56° 00' N	177° 00' E	531
1990	8	61	56° 00' N	179° 00' E	5355
1990	8	62	56° 00' N	180° 00' E	2222
1990	8	63	56° 00' N	179° 00' W	2198
1990	8	64	56° 00' N	178° 00' W	189
1990	8	65	56° 00' N	177° 00' W	198
1990	8	70	55° 30' N	177° 00' E	783
1990	8	71	55° 30' N	178° 00' E	299
1990	8	72	55° 30' N	179° 00' E	876
1990	8	73	55° 30' N	180° 00' E	885
1990	8	74	55° 30' N	179° 00' W	3285
1990	8	75	55° 30' N	178° 00' W	448

Year	Month	Block no	Latitude	Longitude	Catch
1990	9	5	58° 30' N	178° 00' E	3622
1990	9	6	58° 30' N	179° 00' E	5902
1990	9	7	58° 30' N	180° 00' E	109
1990	9	8	58° 30' N	179° 00' W	157
1990	9	16	58° 00' N	178° 00' E	897
1990	9	17	58° 00' N	179° 00' E	932
1990	9	26	57° 30' N	177° 00' E	119
1990	9	28	57° 30' N	179° 00' E	2302
1990	9	39	57° 00' N	179° 00' E	115
1990	9	40	57° 00' N	180° 00' E	196
1990	9	50	56° 30' N	179° 00' E	235
1990	9	61	56° 00' N	179° 00' E	1463
1990	9	62	56° 00' N	180° 00' E	473
1990	9	74	55° 30' N	179° 00' W	661
1990	10	5	58° 30' N	178° 00' E	2451
1990	10	8	58° 30' N	179° 00' W	1561
1990	10	14	58° 00' N	176° 00' E	3376
1990	10	16	58° 00' N	178° 00' E	2872
1990	10	17	58° 00' N	179° 00' E	600
1990	10	24	57° 30' N	175° 00' E	803
1990	10	25	57° 30' N	176° 00' E	957
1990	10	27	57° 30' N	178° 00' E	1040
1990	10	28	57° 30' N	179° 00' E	822
1990	10	31	57° 30' N	178° 00' W	407
1990	10	35	57° 00' N	175° 00' E	1645
1990	10	36	57° 00' N	176° 00' E	637
1990	10	38	57° 00' N	178° 00' E	1659
1990	10	39	57° 00' N	179° 00' E	1032
1990	10	43	57° 00' N	177° 00' W	387
1990	10	45	56° 30' N	174° 00' E	235
1990	10	46	56° 30' N	175° 00' E	1320
1990	10	47	56° 30' N	176° 00' E	312
1990	10	54	56° 30' N	177° 00' W	2740
1990	10	72	55° 30' N	179° 00' E	121
1990	11	4	58° 30' N	177° 00' E	1230
1990	11	5	58° 30' N	178° 00' E	431
1990	11	15	58° 00' N	177° 00' E	933
1990	11	16	58° 00' N	178° 00' E	611
1990	11	17	58° 00' N	179° 00' E	102
1990	11	18	58° 00' N	180° 00' E	156
1990	11	27	57° 30' N	178° 00' E	1200
1990	11	28	57° 30' N	179° 00' E	851
1990	11	35	57° 00' N	175° 00' E	16
1990	11	37	57° 00' N	177° 00' E	56
1990	11	38	57° 00' N	178° 00' E	932
1990	11	39	57° 00' N	179° 00' E	2404
1990	11	43	57° 00' N	177° 00' W	288
1990	11	48	56° 30' N	177° 00' E	401
1990	11	49	56° 30' N	178° 00' E	718
1990	11	50	56° 30' N	179° 00' E	152
1990	11	51	56° 30' N	180° 00' E	32
1990	11	53	56° 30' N	178° 00' W	930
1990	11	56	56° 00' N	174° 00' E	1972
1990	11	58	56° 00' N	176° 00' E	180
1990	11	59	56° 00' N	177° 00' E	31
1990	11	61	56° 00' N	179° 00' E	156
1990	11	65	56° 00' N	177° 00' W	9
1990	11	72	55° 30' N	179° 00' E	753
1990	11	73	55° 30' N	180° 00' E	967
1990	11	77	55° 30' N	176° 00' W	371
1990	12	5	58° 30' N	178° 00' E	215
1990	12	6	58° 30' N	179° 00' E	1434
1990	12	7	58° 30' N	180° 00' E	3703
1990	12	8	58° 30' N	179° 00' W	1211
1990	12	17	58° 00' N	179° 00' E	266
1990	12	18	58° 00' N	180° 00' E	193
1990	12	28	57° 30' N	179° 00' E	5
1990	12	61	56° 00' N	179° 00' E	85

Year	Month	Block no	Latitude	Longitude	Catch
1991	1	5	58° 30' N	178° 00' E	22
1991	1	6	58° 30' N	179° 00' E	19
1991	1	7	58° 30' N	180° 00' E	924
1991	1	8	58° 30' N	179° 00' W	85
1991	1	20	58° 00' N	178° 00' W	439
1991	1	48	56° 30' N	177° 00' E	5
1991	1	74	55° 30' N	179° 00' W	4
1991	1	75	55° 30' N	178° 00' W	32
1991	2	30	57° 30' N	179° 00' W	26
1991	3	31	57° 30' N	178° 00' W	7
1991	3	75	55° 30' N	178° 00' W	30
1991	3	76	55° 30' N	177° 00' W	121
1991	4	32	57° 30' N	177° 00' W	683
1991	4	43	57° 00' N	177° 00' W	5172
1991	4	54	56° 30' N	177° 00' W	4669
1991	4	65	56° 00' N	177° 00' W	3695
1991	4	73	55° 30' N	180° 00' E	166
1991	4	76	55° 30' N	177° 00' W	3295
1991	4	77	55° 30' N	176° 00' W	379
1991	5	7	58° 30' N	180° 00' E	1074
1991	5	8	58° 30' N	179° 00' W	2345
1991	5	18	58° 00' N	180° 00' E	386
1991	5	30	57° 30' N	179° 00' W	727
1991	5	43	57° 00' N	177° 00' W	3090
1991	5	53	56° 30' N	178° 00' W	453
1991	5	54	56° 30' N	177° 00' W	230
1991	5	65	56° 00' N	177° 00' W	357
1991	5	70	55° 30' N	177° 00' E	242
1991	5	75	55° 30' N	178° 00' W	515
1991	5	76	55° 30' N	177° 00' W	337



Year	Month	Block no	Latitude	Longitude	Catch
1991	6	8	58° 30' N	179° 00' W	270
1991	6	19	58° 00' N	179° 00' W	587
1991	6	20	58° 00' N	178° 00' W	392
1991	6	28	57° 30' N	179° 00' E	1519
1991	6	30	57° 30' N	179° 00' W	311
1991	6	31	57° 30' N	178° 00' W	600
1991	6	32	57° 30' N	177° 00' W	187
1991	6	37	57° 00' N	177° 00' E	57
1991	6	38	57° 00' N	178° 00' E	373
1991	6	39	57° 00' N	179° 00' E	435
1991	6	42	57° 00' N	178° 00' W	1457
1991	6	43	57° 00' N	177° 00' W	1201
1991	6	47	56° 30' N	176° 00' E	659
1991	6	52	56° 30' N	179° 00' W	169
1991	6	53	56° 30' N	178° 00' W	464
1991	6	54	56° 30' N	177° 00' W	456
1991	6	58	56° 00' N	176° 00' E	893
1991	6	74	55° 30' N	179° 00' W	227
1991	7	19	58° 00' N	179° 00' W	217
1991	7	20	58° 00' N	178° 00' W	455
1991	7	31	57° 30' N	178° 00' W	1205
1991	7	41	57° 00' N	179° 00' W	530
1991	7	42	57° 00' N	178° 00' W	1221
1991	7	43	57° 00' N	177° 00' W	174
1991	7	52	56° 30' N	179° 00' W	378
1991	7	64	56° 00' N	178° 00' W	368
1991	7	75	55° 30' N	178° 00' W	4645
1991	7	76	55° 30' N	177° 00' W	2058
1991	8	19	58° 00' N	179° 00' W	146
1991	8	20	58° 00' N	178° 00' W	90
1991	8	31	57° 30' N	178° 00' W	2620
1991	8	32	57° 30' N	177° 00' W	285
1991	8	40	57° 00' N	180° 00' E	18
1991	8	53	56° 30' N	178° 00' W	557
1991	9	15	58° 00' N	177° 00' E	100
1991	9	38	57° 00' N	178° 00' E	6
1991	11	41	57° 00' N	179° 00' W	7



**Tab 7**

**Data Base of Polish catches of Pollock  
in Donut Hole area by Small Statistical Blocks  
and Geographical positions  
during 1985-1991**

Table 24. Data base of Polish catches (in metric tons) of pollock in Donut Hole area of the central Bering Sea by small statistical blocks (lower left corner 10' latitude x 30' longitude) by months during 1985 - 1991

Year	Month	Block no	Latitude	Longitude	Catch	Line No.
1985	1	309	56° 30' N	178° 00' W	24	1
1985	1	348	56° 10' N	179° 30' E	85	2
1985	1	351	56° 10' N	178° 00' W	76	3
1985	1	392	55° 50' N	179° 30' W	67	4
1985	1	394	55° 50' N	178° 30' W	54	5
1985	1	395	55° 50' N	177° 00' W	75	6
1985	1	413	55° 40' N	179° 30' W	180	7
1985	1	414	55° 40' N	178° 00' W	988	8
1985	1	415	55° 40' N	178° 30' W	794	9
1985	1	416	55° 40' N	177° 00' W	371	10
1985	1	417	55° 40' N	177° 30' W	195	11
1985	1	437	55° 30' N	177° 00' W	35	12
1985	1	439	55° 30' N	176° 00' W	88	13
1985	1	456	55° 20' N	178° 00' W	54	14
1985	1	457	55° 20' N	178° 30' W	229	15
1985	1	458	55° 20' N	177° 00' W	92	16
1985	2	288	56° 40' N	178° 00' W	77	17
1985	2	393	55° 50' N	178° 00' W	662	18
1985	2	394	55° 50' N	178° 30' W	72	19
1985	2	414	55° 40' N	178° 00' W	197	20
1985	2	415	55° 40' N	178° 30' W	2842	21
1985	2	416	55° 40' N	177° 00' W	4402	22
1985	2	417	55° 40' N	177° 30' W	1718	23
1985	2	418	55° 40' N	176° 00' W	1427	24
1985	2	419	55° 40' N	176° 30' W	2040	25
1985	2	433	55° 30' N	180° 00' E	1053	26
1985	2	438	55° 30' N	177° 30' W	1442	27
1985	2	439	55° 30' N	176° 00' W	228	28
1985	2	440	55° 30' N	176° 30' W	135	29
1985	2	455	55° 20' N	179° 30' W	307	30
1985	2	459	55° 20' N	177° 30' W	277	31
1985	2	478	55° 10' N	178° 30' W	77	32
1985	3	35	58° 40' N	179° 30' W	70	33
1985	3	165	57° 40' N	177° 30' W	58	34
1985	3	332	56° 20' N	177° 00' W	268	35
1985	3	395	55° 50' N	177° 00' W	688	36
1985	3	398	55° 50' N	176° 30' W	72	37
1985	3	417	55° 40' N	177° 30' W	63	38
1985	3	418	55° 40' N	176° 00' W	244	39
1985	3	419	55° 40' N	176° 30' W	1901	40
1985	3	437	55° 30' N	177° 00' W	302	41
1985	3	438	55° 30' N	177° 30' W	1607	42
1985	3	439	55° 30' N	176° 00' W	709	43
1985	3	440	55° 30' N	176° 30' W	1815	44

1985	3	441	55° 30' N 175° 00' W	24	45
1985	3	458	55° 20' N 177° 00' W	1194	46
1985	3	459	55° 20' N 177° 30' W	156	47
1985	3	460	55° 20' N 176° 00' W	859	48
1985	4	76	58° 20' N 180° 00' E	619	49
1985	4	97	58° 10' N 180° 00' E	249	50
1985	4	118	58° 00' N 180° 00' E	399	51
1985	4	120	58° 00' N 178° 00' W	283	52
1985	4	139	57° 50' N 180° 00' E	493	53
1985	4	140	57° 50' N 179° 30' W	837	54
1985	4	141	57° 50' N 178° 00' W	1621	55
1985	4	160	57° 40' N 180° 00' E	938	56
1985	4	162	57° 40' N 178° 00' W	874	57
1985	4	202	57° 20' N 180° 00' E	876	58
1985	4	204	57° 20' N 178° 00' W	249	59
1985	4	223	57° 10' N 180° 00' E	495	60
1985	4	224	57° 10' N 179° 30' W	163	61
1985	4	246	57° 00' N 178° 00' W	430	62
1985	4	250	57° 00' N 176° 00' W	60	63
1985	4	266	56° 50' N 179° 30' W	305	64
1985	4	268	56° 50' N 178° 30' W	771	65
1985	4	290	56° 40' N 177° 00' W	230	66
1985	4	291	56° 40' N 177° 30' W	409	67
1985	4	311	56° 30' N 177° 00' W	411	68
1985	4	312	56° 30' N 177° 30' W	175	69
1985	4	333	56° 20' N 177° 30' W	235	70
1985	4	334	56° 20' N 176° 00' W	231	71
1985	4	353	56° 10' N 177° 00' W	135	72
1985	4	354	56° 10' N 177° 30' W	397	73
1985	4	355	56° 10' N 176° 00' W	289	74
1985	4	375	56° 00' N 177° 30' W	558	75
1985	4	376	56° 00' N 176° 00' W	355	76
1985	4	396	55° 50' N 177° 30' W	264	77
1985	4	397	55° 50' N 176° 00' W	354	78
1985	4	398	55° 50' N 176° 30' W	912	79
1985	4	417	55° 40' N 177° 30' W	183	80
1985	4	418	55° 40' N 176° 00' W	1159	81
1985	4	419	55° 40' N 176° 30' W	551	82
1985	4	437	55° 30' N 177° 00' W	196	83
1985	4	439	55° 30' N 176° 00' W	432	84
1985	4	440	55° 30' N 176° 30' W	286	85
1985	4	456	55° 20' N 178° 00' W	71	86
1985	4	457	55° 20' N 178° 30' W	58	87
1985	4	458	55° 20' N 177° 00' W	62	88
1985	4	459	55° 20' N 177° 30' W	424	89
1985	4	460	55° 20' N 176° 00' W	118	90
1985	4	461	55° 20' N 176° 30' W	162	91
1985	4	462	55° 20' N 175° 00' W	133	92
1985	5	15	58° 50' N 178° 00' W	712	93

1985	5	30	58° 40' N	178° 00' E	3203	94
1985	5	114	58° 00' N	178° 00' E	2360	95
1985	5	115	58° 00' N	178° 30' E	936	96
1985	5	122	58° 00' N	177° 00' W	849	97
1985	5	135	57° 50' N	178° 00' E	3637	98
1985	5	136	57° 50' N	178° 30' E	920	99
1985	5	155	57° 40' N	177° 30' E	1373	100
1985	5	156	57° 40' N	178° 00' E	264	101
1985	5	160	57° 40' N	180° 00' E	4849	102
1985	5	161	57° 40' N	179° 30' W	248	103
1985	5	162	57° 40' N	178° 00' W	1223	104
1985	5	163	57° 40' N	178° 30' W	789	105
1985	5	164	57° 40' N	177° 00' W	1281	106
1985	5	176	57° 30' N	177° 30' E	517	107
1985	5	182	57° 30' N	179° 30' W	224	108
1985	5	185	57° 30' N	177° 00' W	229	109
1985	5	225	57° 10' N	178° 00' W	5091	110
1985	5	226	57° 10' N	178° 30' W	609	111
1985	5	245	57° 00' N	179° 30' W	1542	112
1985	6	54	58° 30' N	179° 30' E	196	113
1985	6	136	57° 50' N	178° 30' E	131	114
1985	6	156	57° 40' N	178° 00' E	206	115
1985	6	176	57° 30' N	177° 30' E	592	116
1985	6	196	57° 20' N	177° 00' E	535	117
1985	6	197	57° 20' N	177° 30' E	296	118
1985	6	218	57° 10' N	177° 30' E	508	119
1985	6	239	57° 00' N	177° 30' E	706	120
1985	6	260	56° 50' N	177° 30' E	577	121
1985	6	279	56° 40' N	176° 30' E	905	122
1985	6	286	56° 40' N	180° 00' E	7	123
1985	6	300	56° 30' N	176° 30' E	1377	124
1985	6	301	56° 30' N	177° 00' E	325	125
1985	6	304	56° 30' N	178° 30' E	327	126
1985	6	305	56° 30' N	179° 00' E	171	127
1985	6	308	56° 30' N	179° 30' W	736	128
1985	6	312	56° 30' N	177° 30' W	347	129
1985	6	313	56° 30' N	176° 00' W	18	130
1985	6	322	56° 20' N	177° 00' E	1081	131
1985	6	323	56° 20' N	177° 30' E	298	132
1985	6	325	56° 20' N	178° 30' E	636	133
1985	6	326	56° 20' N	179° 00' E	307	134
1985	6	327	56° 20' N	179° 30' E	386	135
1985	6	342	56° 10' N	176° 30' E	339	136
1985	6	343	56° 10' N	177° 00' E	1421	137
1985	6	344	56° 10' N	177° 30' E	659	138
1985	6	345	56° 10' N	178° 00' E	472	139
1985	6	346	56° 10' N	178° 30' E	640	140
1985	6	347	56° 10' N	179° 00' E	199	141
1985	6	364	56° 00' N	177° 00' E	714	142

1985	6	365	56° 00' N	177° 30' E	249	143
1985	6	370	56° 00' N	180° 00' E	848	144
1985	6	371	56° 00' N	179° 30' W	1073	145
1985	6	392	55° 50' N	179° 30' W	859	146
1985	6	412	55° 40' N	180° 00' E	19	147
1985	7	322	56° 20' N	177° 00' E	94	148
1985	12	288	56° 40' N	178° 00' W	319	149
1985	12	289	56° 40' N	178° 30' W	891	150
1985	12	292	56° 40' N	176° 00' W	357	151
1985	12	310	56° 30' N	178° 30' W	277	152
1985	12	327	56° 20' N	179° 30' E	52	153
1985	12	331	56° 20' N	178° 30' W	2020	154
1985	12	332	56° 20' N	177° 00' W	547	155
1985	12	347	56° 10' N	179° 00' E	54	156
1985	12	348	56° 10' N	179° 30' E	48	157
1985	12	350	56° 10' N	179° 30' W	51	158
1985	12	352	56° 10' N	178° 30' W	644	159
1985	12	354	56° 10' N	177° 30' W	2755	160
1985	12	372	56° 00' N	178° 00' W	273	161
1985	12	374	56° 00' N	177° 00' W	1313	162
1985	12	375	56° 00' N	177° 30' W	2260	163
1985	12	392	55° 50' N	179° 30' W	55	164
1985	12	393	55° 50' N	178° 00' W	359	165
1985	12	395	55° 50' N	177° 00' W	728	166
1985	12	396	55° 50' N	177° 30' W	2607	167
1985	12	397	55° 50' N	176° 00' W	356	168
1985	12	398	55° 50' N	176° 30' W	28	169
1985	12	408	55° 40' N	178° 00' E	48	170
1985	12	412	55° 40' N	180° 00' E	157	171
1985	12	413	55° 40' N	179° 30' W	302	172
1985	12	416	55° 40' N	177° 00' W	12	173
1985	12	417	55° 40' N	177° 30' W	1024	174
1985	12	437	55° 30' N	177° 00' W	36	175
1985	12	459	55° 20' N	177° 30' W	342	176
1986	1	288	56° 40' N	178° 00' W	1444	177
1986	1	289	56° 40' N	178° 30' W	2259	178
1986	1	308	56° 30' N	179° 30' W	191	179
1986	1	309	56° 30' N	178° 00' W	1824	180
1986	1	329	56° 20' N	179° 30' W	820	181
1986	1	330	56° 20' N	178° 00' W	65	182
1986	1	350	56° 10' N	179° 30' W	448	183
1986	1	351	56° 10' N	178° 00' W	403	184
1986	1	371	56° 00' N	179° 30' W	579	185
1986	1	372	56° 00' N	178° 00' W	106	186
1986	1	391	55° 50' N	180° 00' E	2656	187
1986	1	392	55° 50' N	179° 30' W	439	188
1986	1	393	55° 50' N	178° 00' W	177	189
1986	1	411	55° 40' N	179° 30' E	1231	190
1986	1	412	55° 40' N	180° 00' E	3907	191

1986	1	413	55° 40' N 179° 30' W	915	192
1986	1	414	55° 40' N 178° 00' W	1582	193
1986	1	432	55° 30' N 179° 30' E	1508	194
1986	1	433	55° 30' N 180° 00' E	3809	195
1986	1	434	55° 30' N 179° 30' W	2705	196
1986	1	435	55° 30' N 178° 00' W	2730	197
1986	1	454	55° 20' N 180° 00' E	1269	198
1986	1	455	55° 20' N 179° 30' W	1223	199
1986	2	377	56° 00' N 176° 30' W	251	200
1986	2	392	55° 50' N 179° 30' W	1908	201
1986	2	393	55° 50' N 178° 00' W	468	202
1986	2	394	55° 50' N 178° 30' W	132	203
1986	2	397	55° 50' N 176° 00' W	1074	204
1986	2	398	55° 50' N 176° 30' W	2426	205
1986	2	413	55° 40' N 179° 30' W	647	206
1986	2	414	55° 40' N 178° 00' W	837	207
1986	2	415	55° 40' N 178° 30' W	436	208
1986	2	416	55° 40' N 177° 00' W	168	209
1986	2	417	55° 40' N 177° 30' W	458	210
1986	2	418	55° 40' N 176° 00' W	1443	211
1986	2	419	55° 40' N 176° 30' W	756	212
1986	2	434	55° 30' N 179° 30' W	2778	213
1986	2	435	55° 30' N 178° 00' W	810	214
1986	2	436	55° 30' N 178° 30' W	518	215
1986	2	437	55° 30' N 177° 00' W	2845	216
1986	2	438	55° 30' N 177° 30' W	939	217
1986	2	439	55° 30' N 176° 00' W	686	218
1986	2	440	55° 30' N 176° 30' W	155	219
1986	2	455	55° 20' N 179° 30' W	180	220
1986	2	456	55° 20' N 178° 00' W	258	221
1986	2	457	55° 20' N 178° 30' W	752	222
1986	2	458	55° 20' N 177° 00' W	245	223
1986	3	247	57° 00' N 178° 30' W	1145	224
1986	3	248	57° 00' N 177° 00' W	323	225
1986	3	250	57° 00' N 176° 00' W	654	226
1986	3	267	56° 50' N 178° 00' W	653	227
1986	3	270	56° 50' N 177° 30' W	336	228
1986	3	271	56° 50' N 176° 00' W	300	229
1986	3	290	56° 40' N 177° 00' W	1547	230
1986	3	291	56° 40' N 177° 30' W	530	231
1986	3	292	56° 40' N 176° 00' W	7008	232
1986	3	312	56° 30' N 177° 30' W	194	233
1986	3	313	56° 30' N 176° 00' W	1062	234
1986	3	332	56° 20' N 177° 00' W	123	235
1986	3	333	56° 20' N 177° 30' W	1007	236
1986	3	334	56° 20' N 176° 00' W	308	237
1986	3	356	56° 10' N 176° 30' W	227	238
1986	3	377	56° 00' N 176° 30' W	595	239
1986	3	397	55° 50' N 176° 00' W	603	240



1986	3	398	55° 50' N 176° 30' W	640	241
1986	3	419	55° 40' N 176° 30' W	638	242
1986	3	420	55° 40' N 175° 00' W	623	243
1986	3	440	55° 30' N 176° 30' W	228	244
1986	3	441	55° 30' N 175° 00' W	137	245
1986	3	461	55° 20' N 176° 30' W	56	246
1986	4	110	58° 00' N 176° 00' E	364	247
1986	4	111	58° 00' N 176° 30' E	415	248
1986	4	113	58° 00' N 177° 30' E	277	249
1986	4	130	57° 50' N 175° 30' E	428	250
1986	4	132	57° 50' N 176° 30' E	421	251
1986	4	133	57° 50' N 177° 00' E	1223	252
1986	4	134	57° 50' N 177° 30' E	151	253
1986	4	150	57° 40' N 175° 00' E	61	254
1986	4	151	57° 40' N 175° 30' E	785	255
1986	4	152	57° 40' N 176° 00' E	369	256
1986	4	153	57° 40' N 176° 30' E	334	257
1986	4	154	57° 40' N 177° 00' E	2482	258
1986	4	155	57° 40' N 177° 30' E	1224	259
1986	4	156	57° 40' N 178° 00' E	402	260
1986	4	172	57° 30' N 175° 30' E	444	261
1986	4	174	57° 30' N 176° 30' E	582	262
1986	4	175	57° 30' N 177° 00' E	2051	263
1986	4	176	57° 30' N 177° 30' E	1219	264
1986	4	218	57° 10' N 177° 30' E	933	265
1986	4	223	57° 10' N 180° 00' E	1535	266
1986	4	244	57° 00' N 180° 00' E	187	267
1986	4	245	57° 00' N 179° 30' W	194	268
1986	4	262	56° 50' N 178° 30' E	482	269
1986	4	265	56° 50' N 180° 00' E	2526	270
1986	4	266	56° 50' N 179° 30' W	926	271
1986	4	267	56° 50' N 178° 00' W	1685	272
1986	4	268	56° 50' N 178° 30' W	395	273
1986	4	285	56° 40' N 179° 30' E	1139	274
1986	4	286	56° 40' N 180° 00' E	1222	275
1986	4	287	56° 40' N 179° 30' W	459	276
1986	4	288	56° 40' N 178° 00' W	316	277
1986	4	306	56° 30' N 179° 30' E	52	278
1986	4	307	56° 30' N 180° 00' E	825	279
1986	4	308	56° 30' N 179° 30' W	275	280
1986	4	309	56° 30' N 178° 00' W	259	281
1986	5	68	58° 20' N 176° 00' E	652	282
1986	5	69	58° 20' N 176° 30' E	213	283
1986	5	70	58° 20' N 177° 00' E	3075	284
1986	5	71	58° 20' N 177° 30' E	204	285
1986	5	89	58° 10' N 176° 00' E	168	286
1986	5	90	58° 10' N 176° 30' E	1045	287
1986	5	91	58° 10' N 177° 00' E	995	288
1986	5	94	58° 10' N 178° 30' E	68	289

1986	5	110	58° 00' N	176° 00' E	738	290
1986	5	111	58° 00' N	176° 30' E	1796	291
1986	5	112	58° 00' N	177° 00' E	1163	292
1986	5	131	57° 50' N	176° 00' E	725	293
1986	5	151	57° 40' N	175° 30' E	224	294
1986	5	152	57° 40' N	176° 00' E	730	295
1986	5	153	57° 40' N	176° 30' E	119	296
1986	5	172	57° 30' N	175° 30' E	863	297
1986	5	173	57° 30' N	176° 00' E	398	298
1986	5	176	57° 30' N	177° 30' E	48	299
1986	5	192	57° 20' N	175° 00' E	251	300
1986	5	193	57° 20' N	175° 30' E	782	301
1986	5	214	57° 10' N	175° 30' E	2145	302
1986	5	215	57° 10' N	176° 00' E	148	303
1986	5	218	57° 10' N	177° 30' E	72	304
1986	5	222	57° 10' N	179° 30' E	30	305
1986	5	253	56° 50' N	174° 00' E	188	306
1986	5	330	56° 20' N	178° 00' W	2	307
1986	5	387	55° 50' N	178° 00' E	101	308
1986	5	410	55° 40' N	179° 00' E	143	309
1986	5	415	55° 40' N	178° 30' W	48	310
1986	5	429	55° 30' N	178° 00' E	53	311
1986	5	430	55° 30' N	178° 30' E	315	312
1986	5	436	55° 30' N	178° 30' W	18	313
1986	5	451	55° 20' N	178° 30' E	154	314
1986	5	452	55° 20' N	179° 00' E	171	315
1986	5	453	55° 20' N	179° 30' E	8	316
1986	6	232	57° 00' N	174° 00' E	105	317
1986	6	239	57° 00' N	177° 30' E	501	318
1986	6	253	56° 50' N	174° 00' E	207	319
1986	6	259	56° 50' N	177° 00' E	281	320
1986	6	279	56° 40' N	176° 30' E	248	321
1986	6	283	56° 40' N	178° 30' E	381	322
1986	6	295	56° 30' N	174° 00' E	412	323
1986	6	299	56° 30' N	176° 00' E	192	324
1986	6	300	56° 30' N	176° 30' E	214	325
1986	6	301	56° 30' N	177° 00' E	27	326
1986	6	304	56° 30' N	178° 30' E	111	327
1986	6	318	56° 20' N	175° 00' E	685	328
1986	6	319	56° 20' N	175° 30' E	302	329
1986	6	325	56° 20' N	178° 30' E	312	330
1986	6	344	56° 10' N	177° 30' E	33	331
1986	6	366	56° 00' N	178° 00' E	285	332
1986	6	386	55° 50' N	177° 30' E	67	333
1986	6	387	55° 50' N	178° 00' E	118	334
1986	6	394	55° 50' N	178° 30' W	63	335
1986	6	415	55° 40' N	178° 30' W	98	336
1986	6	429	55° 30' N	178° 00' E	16	337
1986	6	437	55° 30' N	177° 00' W	10	338

1986	6	452	55° 20' N	179° 00' E	23	339
1986	6	455	55° 20' N	179° 30' W	183	340
1986	6	456	55° 20' N	178° 00' W	66	341
1986	7	302	56° 30' N	177° 30' E	44	342
1986	7	303	56° 30' N	178° 00' E	28	343
1986	7	344	56° 10' N	177° 30' E	120	344
1986	7	345	56° 10' N	178° 00' E	112	345
1986	7	386	55° 50' N	177° 30' E	35	346
1986	8	367	56° 00' N	178° 30' E	6	347
1986	10	239	57° 00' N	177° 30' E	185	348
1986	10	258	56° 50' N	176° 30' E	240	349
1986	10	281	56° 40' N	177° 30' E	348	350
1986	10	283	56° 40' N	178° 30' E	738	351
1986	10	284	56° 40' N	179° 00' E	232	352
1986	10	323	56° 20' N	177° 30' E	87	353
1986	10	324	56° 20' N	178° 00' E	371	354
1986	11	183	57° 30' N	178° 00' W	1342	355
1986	11	219	57° 10' N	178° 00' E	712	356
1986	11	240	57° 00' N	178° 00' E	123	357
1986	11	246	57° 00' N	178° 00' W	33	358
1986	11	247	57° 00' N	178° 30' W	38	359
1986	11	260	56° 50' N	177° 30' E	334	360
1986	11	261	56° 50' N	178° 00' E	109	361
1986	11	267	56° 50' N	178° 00' W	665	362
1986	11	268	56° 50' N	178° 30' W	361	363
1986	11	280	56° 40' N	177° 00' E	272	364
1986	11	281	56° 40' N	177° 30' E	167	365
1986	11	282	56° 40' N	178° 00' E	272	366
1986	11	283	56° 40' N	178° 30' E	579	367
1986	11	284	56° 40' N	179° 00' E	123	368
1986	11	286	56° 40' N	180° 00' E	70	369
1986	11	288	56° 40' N	178° 00' W	549	370
1986	11	289	56° 40' N	178° 30' W	108	371
1986	11	290	56° 40' N	177° 00' W	13	372
1986	11	303	56° 30' N	178° 00' E	641	373
1986	11	304	56° 30' N	178° 30' E	158	374
1986	11	305	56° 30' N	179° 00' E	757	375
1986	11	308	56° 30' N	179° 30' W	237	376
1986	11	310	56° 30' N	178° 30' W	1101	377
1986	11	312	56° 30' N	177° 30' W	100	378
1986	11	322	56° 20' N	177° 00' E	555	379
1986	11	325	56° 20' N	178° 30' E	65	380
1986	11	344	56° 10' N	177° 30' E	267	381
1986	11	345	56° 10' N	178° 00' E	332	382
1986	11	346	56° 10' N	178° 30' E	345	383
1986	11	347	56° 10' N	179° 00' E	41	384
1986	11	365	56° 00' N	177° 30' E	32	385
1986	11	366	56° 00' N	178° 00' E	65	386
1986	11	367	56° 00' N	178° 30' E	87	387

1986	11	368	56° 00' N	179° 00' E	2	388
1986	11	388	55° 50' N	178° 30' E	90	389
1986	11	408	55° 40' N	178° 00' E	435	390
1986	11	409	55° 40' N	178° 30' E	442	391
1986	11	410	55° 40' N	179° 00' E	905	392
1986	11	430	55° 30' N	178° 30' E	297	393
1986	11	431	55° 30' N	179° 00' E	688	394
1986	12	242	57° 00' N	179° 00' E	424	395
1986	12	264	56° 50' N	179° 30' E	1325	396
1986	12	284	56° 40' N	179° 00' E	1008	397
1986	12	285	56° 40' N	179° 30' E	390	398
1986	12	304	56° 30' N	178° 30' E	1698	399
1986	12	306	56° 30' N	179° 30' E	414	400
1986	12	308	56° 30' N	179° 30' W	785	401
1986	12	325	56° 20' N	178° 30' E	1825	402
1986	12	326	56° 20' N	179° 00' E	1828	403
1986	12	344	56° 10' N	177° 30' E	1497	404
1986	12	346	56° 10' N	178° 30' E	1963	405
1986	12	348	56° 10' N	179° 30' E	15	406
1986	12	366	56° 00' N	178° 00' E	478	407
1986	12	367	56° 00' N	178° 30' E	467	408
1986	12	368	56° 00' N	179° 00' E	119	409
1986	12	388	55° 50' N	178° 30' E	226	410
1986	12	389	55° 50' N	179° 00' E	793	411
1986	12	406	55° 40' N	177° 00' E	46	412
1986	12	409	55° 40' N	178° 30' E	2405	413
1986	12	411	55° 40' N	179° 30' E	23	414
1986	12	429	55° 30' N	178° 00' E	873	415
1986	12	430	55° 30' N	178° 30' E	1716	416
1986	12	431	55° 30' N	179° 00' E	1541	417
1986	12	432	55° 30' N	179° 30' E	330	418
1986	12	434	55° 30' N	179° 30' W	928	419
1986	12	436	55° 30' N	178° 30' W	105	420
1986	12	451	55° 20' N	178° 30' E	328	421
1986	12	452	55° 20' N	179° 00' E	267	422
1986	12	453	55° 20' N	179° 30' E	1082	423
1986	12	454	55° 20' N	180° 00' E	70	424
1986	12	455	55° 20' N	179° 30' W	198	425
1986	12	478	55° 10' N	178° 30' W	188	426
1987	1	325	56° 20' N	178° 30' E	71	427
1987	1	326	56° 20' N	179° 00' E	118	428
1987	1	344	56° 10' N	177° 30' E	265	429
1987	1	345	56° 10' N	178° 00' E	1547	430
1987	1	346	56° 10' N	178° 30' E	2492	431
1987	1	347	56° 10' N	179° 00' E	932	432
1987	1	366	56° 00' N	178° 00' E	1487	433
1987	1	367	56° 00' N	178° 30' E	9214	434
1987	1	368	56° 00' N	179° 00' E	2229	435
1987	1	387	55° 50' N	178° 00' E	1288	436

1987	1	388	55° 50' N	178° 30' E	6580	437
1987	1	389	55° 50' N	179° 00' E	405	438
1987	1	408	55° 40' N	178° 00' E	953	439
1987	1	409	55° 40' N	178° 30' E	5934	440
1987	1	410	55° 40' N	179° 00' E	163	441
1987	1	429	55° 30' N	178° 00' E	504	442
1987	1	430	55° 30' N	178° 30' E	5225	443
1987	1	431	55° 30' N	179° 00' E	416	444
1987	1	451	55° 20' N	178° 30' E	838	445
1987	1	452	55° 20' N	179° 00' E	377	446
1987	1	459	55° 20' N	177° 30' W	34	447
1987	1	461	55° 20' N	176° 30' W	37	448
1987	2	347	56° 10' N	179° 00' E	400	449
1987	2	366	56° 00' N	178° 00' E	1148	450
1987	2	367	56° 00' N	178° 30' E	5028	451
1987	2	368	56° 00' N	179° 00' E	3113	452
1987	2	372	56° 00' N	178° 00' W	21	453
1987	2	387	55° 50' N	178° 00' E	1373	454
1987	2	388	55° 50' N	178° 30' E	6005	455
1987	2	389	55° 50' N	179° 00' E	2814	456
1987	2	393	55° 50' N	178° 00' W	70	457
1987	2	408	55° 40' N	178° 00' E	1346	458
1987	2	409	55° 40' N	178° 30' E	5261	459
1987	2	410	55° 40' N	179° 00' E	2112	460
1987	2	430	55° 30' N	178° 30' E	291	461
1987	2	431	55° 30' N	179° 00' E	1613	462
1987	2	434	55° 30' N	179° 30' W	145	463
1987	2	451	55° 20' N	178° 30' E	1267	464
1987	2	452	55° 20' N	179° 00' E	140	465
1987	3	229	57° 10' N	176° 00' W	88	466
1987	3	249	57° 00' N	177° 30' W	208	467
1987	3	250	57° 00' N	176° 00' W	50	468
1987	3	268	56° 50' N	178° 30' W	17	469
1987	3	270	56° 50' N	177° 30' W	282	470
1987	3	271	56° 50' N	176° 00' W	260	471
1987	3	291	56° 40' N	177° 30' W	25	472
1987	3	292	56° 40' N	176° 00' W	66	473
1987	3	312	56° 30' N	177° 30' W	584	474
1987	3	313	56° 30' N	176° 00' W	796	475
1987	3	325	56° 20' N	178° 30' E	103	476
1987	3	334	56° 20' N	176° 00' W	193	477
1987	3	355	56° 10' N	176° 00' W	660	478
1987	3	356	56° 10' N	176° 30' W	713	479
1987	3	375	56° 00' N	177° 30' W	857	480
1987	3	376	56° 00' N	176° 00' W	220	481
1987	3	377	56° 00' N	176° 30' W	128	482
1987	3	388	55° 50' N	178° 30' E	1680	483
1987	3	396	55° 50' N	177° 30' W	2217	484
1987	3	397	55° 50' N	176° 00' W	498	485

1987	3	398	55° 50' N 176° 30' W	84	486
1987	3	408	55° 40' N 178° 00' E	44	487
1987	3	409	55° 40' N 178° 30' E	138	488
1987	3	410	55° 40' N 179° 00' E	315	489
1987	3	411	55° 40' N 179° 30' E	24	490
1987	3	418	55° 40' N 176° 00' W	521	491
1987	3	419	55° 40' N 176° 30' W	7	492
1987	3	429	55° 30' N 178° 00' E	162	493
1987	3	430	55° 30' N 178° 30' E	594	494
1987	3	431	55° 30' N 179° 00' E	8	495
1987	3	438	55° 30' N 177° 30' W	1742	496
1987	3	439	55° 30' N 176° 00' W	315	497
1987	3	451	55° 20' N 178° 30' E	113	498
1987	4	326	56° 20' N 179° 00' E	483	499
1987	4	345	56° 10' N 178° 00' E	128	500
1987	4	394	55° 50' N 178° 30' W	299	501
1987	4	407	55° 40' N 177° 30' E	822	502
1987	4	417	55° 40' N 177° 30' W	704	503
1987	4	427	55° 30' N 177° 00' E	250	504
1987	4	428	55° 30' N 177° 30' E	246	505
1987	4	429	55° 30' N 178° 00' E	3475	506
1987	4	430	55° 30' N 178° 30' E	181	507
1987	4	431	55° 30' N 179° 00' E	478	508
1987	4	432	55° 30' N 179° 30' E	744	509
1987	4	433	55° 30' N 180° 00' E	302	510
1987	4	434	55° 30' N 179° 30' W	2325	511
1987	4	435	55° 30' N 178° 00' W	1353	512
1987	4	436	55° 30' N 178° 30' W	113	513
1987	4	438	55° 30' N 177° 30' W	128	514
1987	4	450	55° 20' N 178° 00' E	1156	515
1987	4	451	55° 20' N 178° 30' E	869	516
1987	4	452	55° 20' N 179° 00' E	2514	517
1987	4	453	55° 20' N 179° 30' E	7484	518
1987	4	454	55° 20' N 180° 00' E	4415	519
1987	4	455	55° 20' N 179° 30' W	134	520
1987	4	456	55° 20' N 178° 00' W	1416	521
1987	4	458	55° 20' N 177° 00' W	129	522
1987	4	474	55° 10' N 179° 30' E	486	523
1987	4	475	55° 10' N 180° 00' E	58	524
1987	4	476	55° 10' N 179° 30' W	600	525
1987	5	194	57° 20' N 176° 00' E	120	526
1987	5	235	57° 00' N 175° 30' E	57	527
1987	5	240	57° 00' N 178° 00' E	717	528
1987	5	256	56° 50' N 175° 30' E	301	529
1987	5	257	56° 50' N 176° 00' E	379	530
1987	5	262	56° 50' N 178° 30' E	232	531
1987	5	276	56° 40' N 175° 00' E	293	532
1987	5	277	56° 40' N 175° 30' E	1056	533
1987	5	280	56° 40' N 177° 00' E	160	534

1987	5	296	56° 30' N	174° 30' E	431	535
1987	5	297	56° 30' N	175° 00' E	1776	536
1987	5	299	56° 30' N	176° 00' E	1579	537
1987	5	300	56° 30' N	176° 30' E	255	538
1987	5	301	56° 30' N	177° 00' E	70	539
1987	5	302	56° 30' N	177° 30' E	587	540
1987	5	306	56° 30' N	179° 30' E	3567	541
1987	5	307	56° 30' N	180° 00' E	438	542
1987	5	318	56° 20' N	175° 00' E	1061	543
1987	5	319	56° 20' N	175° 30' E	1779	544
1987	5	320	56° 20' N	176° 00' E	551	545
1987	5	321	56° 20' N	176° 30' E	2091	546
1987	5	323	56° 20' N	177° 30' E	443	547
1987	5	324	56° 20' N	178° 00' E	950	548
1987	5	325	56° 20' N	178° 30' E	453	549
1987	5	339	56° 10' N	175° 00' E	657	550
1987	5	340	56° 10' N	175° 30' E	144	551
1987	5	345	56° 10' N	178° 00' E	230	552
1987	5	348	56° 10' N	179° 30' E	893	553
1987	5	349	56° 10' N	180° 00' E	182	554
1987	5	360	56° 00' N	175° 00' E	486	555
1987	5	368	56° 00' N	179° 00' E	391	556
1987	5	370	56° 00' N	180° 00' E	1195	557
1987	5	391	55° 50' N	180° 00' E	176	558
1987	5	393	55° 50' N	178° 00' W	72	559
1987	5	411	55° 40' N	179° 30' E	2301	560
1987	5	431	55° 30' N	179° 00' E	141	561
1987	5	433	55° 30' N	180° 00' E	617	562
1987	5	453	55° 20' N	179° 30' E	2999	563
1987	5	454	55° 20' N	180° 00' E	508	564
1987	6	260	56° 50' N	177° 30' E	261	565
1987	6	261	56° 50' N	178° 00' E	264	566
1987	6	262	56° 50' N	178° 30' E	533	567
1987	6	281	56° 40' N	177° 30' E	643	568
1987	6	283	56° 40' N	178° 30' E	66	569
1987	6	298	56° 30' N	175° 30' E	180	570
1987	6	299	56° 30' N	176° 00' E	522	571
1987	6	300	56° 30' N	176° 30' E	561	572
1987	6	301	56° 30' N	177° 00' E	664	573
1987	6	302	56° 30' N	177° 30' E	588	574
1987	6	303	56° 30' N	178° 00' E	2234	575
1987	6	304	56° 30' N	178° 30' E	1792	576
1987	6	321	56° 20' N	176° 30' E	880	577
1987	6	322	56° 20' N	177° 00' E	823	578
1987	6	323	56° 20' N	177° 30' E	1559	579
1987	6	324	56° 20' N	178° 00' E	1578	580
1987	6	325	56° 20' N	178° 30' E	386	581
1987	6	326	56° 20' N	179° 00' E	193	582
1987	6	344	56° 10' N	177° 30' E	2269	583

1987	6	345	56° 10' N	178° 00' E	275	584
1987	6	346	56° 10' N	178° 30' E	1403	585
1987	6	365	56° 00' N	177° 30' E	3224	586
1987	6	366	56° 00' N	178° 00' E	1180	587
1987	6	367	56° 00' N	178° 30' E	302	588
1987	6	387	55° 50' N	178° 00' E	277	589
1987	6	408	55° 40' N	178° 00' E	950	590
1987	6	409	55° 40' N	178° 30' E	610	591
1987	6	428	55° 30' N	177° 30' E	131	592
1987	6	429	55° 30' N	178° 00' E	163	593
1987	7	256	56° 50' N	175° 30' E	102	594
1987	7	257	56° 50' N	176° 00' E	260	595
1987	7	259	56° 50' N	177° 00' E	131	596
1987	7	260	56° 50' N	177° 30' E	167	597
1987	7	261	56° 50' N	178° 00' E	41	598
1987	7	278	56° 40' N	176° 00' E	156	599
1987	7	281	56° 40' N	177° 30' E	379	600
1987	7	282	56° 40' N	178° 00' E	692	601
1987	7	283	56° 40' N	178° 30' E	701	602
1987	7	302	56° 30' N	177° 30' E	155	603
1987	7	303	56° 30' N	178° 00' E	106	604
1987	7	322	56° 20' N	177° 00' E	300	605
1987	7	323	56° 20' N	177° 30' E	612	606
1987	7	325	56° 20' N	178° 30' E	44	607
1987	7	327	56° 20' N	179° 30' E	45	608
1987	7	343	56° 10' N	177° 00' E	742	609
1987	7	345	56° 10' N	178° 00' E	1326	610
1987	7	346	56° 10' N	178° 30' E	440	611
1987	7	364	56° 00' N	177° 00' E	1017	612
1987	7	366	56° 00' N	178° 00' E	393	613
1987	7	384	55° 50' N	176° 30' E	269	614
1987	7	385	55° 50' N	177° 00' E	270	615
1987	7	387	55° 50' N	178° 00' E	487	616
1987	7	404	55° 40' N	176° 00' E	116	617
1987	7	405	55° 40' N	176° 30' E	3473	618
1987	7	406	55° 40' N	177° 00' E	783	619
1987	7	407	55° 40' N	177° 30' E	203	620
1987	7	408	55° 40' N	178° 00' E	998	621
1987	7	428	55° 30' N	177° 30' E	121	622
1987	7	429	55° 30' N	178° 00' E	1629	623
1987	11	238	57° 00' N	177° 00' E	343	624
1987	11	239	57° 00' N	177° 30' E	2474	625
1987	11	259	56° 50' N	177° 00' E	127	626
1987	11	260	56° 50' N	177° 30' E	170	627
1987	11	282	56° 40' N	178° 00' E	217	628
1987	11	300	56° 30' N	176° 30' E	116	629
1987	11	301	56° 30' N	177° 00' E	240	630
1987	11	302	56° 30' N	177° 30' E	252	631
1987	11	322	56° 20' N	177° 00' E	56	632



1987	11	323	56° 20' N	177° 30' E	189	633
1987	11	324	56° 20' N	178° 00' E	291	634
1987	11	325	56° 20' N	178° 30' E	617	635
1987	11	344	56° 10' N	177° 30' E	25	636
1987	11	345	56° 10' N	178° 00' E	464	637
1987	11	346	56° 10' N	178° 30' E	53	638
1987	11	362	56° 00' N	176° 00' E	41	639
1987	11	363	56° 00' N	176° 30' E	185	640
1987	11	364	56° 00' N	177° 00' E	645	641
1987	11	365	56° 00' N	177° 30' E	897	642
1987	11	366	56° 00' N	178° 00' E	49	643
1987	11	384	55° 50' N	176° 30' E	931	644
1987	11	385	55° 50' N	177° 00' E	1006	645
1987	11	386	55° 50' N	177° 30' E	1221	646
1987	11	405	55° 40' N	176° 30' E	52	647
1987	11	406	55° 40' N	177° 00' E	1756	648
1987	11	407	55° 40' N	177° 30' E	879	649
1987	11	428	55° 30' N	177° 30' E	45	650
1987	12	214	57° 10' N	175° 30' E	92	651
1987	12	216	57° 10' N	176° 30' E	284	652
1987	12	218	57° 10' N	177° 30' E	211	653
1987	12	222	57° 10' N	179° 30' E	1164	654
1987	12	223	57° 10' N	180° 00' E	1823	655
1987	12	234	57° 00' N	175° 00' E	868	656
1987	12	235	57° 00' N	175° 30' E	749	657
1987	12	238	57° 00' N	177° 00' E	212	658
1987	12	239	57° 00' N	177° 30' E	266	659
1987	12	240	57° 00' N	178° 00' E	52	660
1987	12	243	57° 00' N	179° 30' E	672	661
1987	12	244	57° 00' N	180° 00' E	619	662
1987	12	256	56° 50' N	175° 30' E	311	663
1987	12	260	56° 50' N	177° 30' E	334	664
1987	12	261	56° 50' N	178° 00' E	248	665
1987	12	262	56° 50' N	178° 30' E	97	666
1987	12	279	56° 40' N	176° 30' E	168	667
1987	12	280	56° 40' N	177° 00' E	954	668
1987	12	281	56° 40' N	177° 30' E	280	669
1987	12	282	56° 40' N	178° 00' E	85	670
1987	12	283	56° 40' N	178° 30' E	297	671
1987	12	284	56° 40' N	179° 00' E	2084	672
1987	12	302	56° 30' N	177° 30' E	197	673
1987	12	303	56° 30' N	178° 00' E	777	674
1987	12	321	56° 20' N	176° 30' E	34	675
1987	12	322	56° 20' N	177° 00' E	912	676
1987	12	323	56° 20' N	177° 30' E	113	677
1987	12	326	56° 20' N	179° 00' E	745	678
1987	12	327	56° 20' N	179° 30' E	127	679
1987	12	340	56° 10' N	175° 30' E	1022	680
1987	12	343	56° 10' N	177° 00' E	471	681

1987	12	345	56° 10' N	178° 00' E	570	682
1987	12	356	56° 10' N	176° 30' W	47	683
1987	12	369	56° 00' N	179° 30' E	598	684
1987	12	371	56° 00' N	179° 30' W	226	685
1987	12	382	55° 50' N	175° 30' E	360	686
1987	12	383	55° 50' N	176° 00' E	683	687
1987	12	384	55° 50' N	176° 30' E	1962	688
1987	12	390	55° 50' N	179° 30' E	406	689
1987	12	392	55° 50' N	179° 30' W	156	690
1987	12	393	55° 50' N	178° 00' W	112	691
1987	12	399	55° 50' N	175° 00' W	115	692
1987	12	404	55° 40' N	176° 00' E	1435	693
1987	12	405	55° 40' N	176° 30' E	754	694
1987	12	407	55° 40' N	177° 30' E	47	695
1987	12	408	55° 40' N	178° 00' E	898	696
1987	12	409	55° 40' N	178° 30' E	157	697
1987	12	411	55° 40' N	179° 30' E	29	698
1987	12	414	55° 40' N	178° 00' W	1628	699
1987	12	415	55° 40' N	178° 30' W	339	700
1987	12	420	55° 40' N	175° 00' W	107	701
1987	12	429	55° 30' N	178° 00' E	76	702
1987	12	452	55° 20' N	179° 00' E	735	703
1988	1	249	57° 00' N	177° 30' W	339	704
1988	1	268	56° 50' N	178° 30' W	2054	705
1988	1	269	56° 50' N	177° 00' W	188	706
1988	1	270	56° 50' N	177° 30' W	47	707
1988	1	286	56° 40' N	180° 00' E	414	708
1988	1	287	56° 40' N	179° 30' W	107	709
1988	1	288	56° 40' N	178° 00' W	151	710
1988	1	289	56° 40' N	178° 30' W	1938	711
1988	1	290	56° 40' N	177° 00' W	3303	712
1988	1	291	56° 40' N	177° 30' W	62	713
1988	1	312	56° 30' N	177° 30' W	654	714
1988	1	328	56° 20' N	180° 00' E	341	715
1988	1	333	56° 20' N	177° 30' W	81	716
1988	1	341	56° 10' N	176° 00' E	30	717
1988	1	342	56° 10' N	176° 30' E	23	718
1988	1	350	56° 10' N	179° 30' W	945	719
1988	1	351	56° 10' N	178° 00' W	559	720
1988	1	356	56° 10' N	176° 30' W	1209	721
1988	1	361	56° 00' N	175° 30' E	1114	722
1988	1	362	56° 00' N	176° 00' E	25	723
1988	1	369	56° 00' N	179° 30' E	307	724
1988	1	370	56° 00' N	180° 00' E	1705	725
1988	1	371	56° 00' N	179° 30' W	764	726
1988	1	373	56° 00' N	178° 30' W	66	727
1988	1	376	56° 00' N	176° 00' W	400	728
1988	1	377	56° 00' N	176° 30' W	792	729
1988	1	382	55° 50' N	175° 30' E	118	730

1988	1	384	55° 50' N 176° 30' E	20	731
1988	1	387	55° 50' N 178° 00' E	51	732
1988	1	389	55° 50' N 179° 00' E	4626	733
1988	1	390	55° 50' N 179° 30' E	1214	734
1988	1	393	55° 50' N 178° 00' W	970	735
1988	1	394	55° 50' N 178° 30' W	1725	736
1988	1	398	55° 50' N 176° 30' W	244	737
1988	1	411	55° 40' N 179° 30' E	23	738
1988	1	412	55° 40' N 180° 00' E	952	739
1988	1	414	55° 40' N 178° 00' W	1117	740
1988	1	419	55° 40' N 176° 30' W	923	741
1988	1	428	55° 30' N 177° 30' E	534	742
1988	1	434	55° 30' N 179° 30' W	773	743
1988	1	440	55° 30' N 176° 30' W	1018	744
1988	1	454	55° 20' N 180° 00' E	1543	745
1988	1	455	55° 20' N 179° 30' W	2471	746
1988	1	456	55° 20' N 178° 00' W	248	747
1988	1	457	55° 20' N 178° 30' W	617	748
1988	1	461	55° 20' N 176° 30' W	2106	749
1988	1	476	55° 10' N 179° 30' W	278	750
1988	1	478	55° 10' N 178° 30' W	1758	751
1988	2	119	58° 00' N 179° 30' W	36	752
1988	2	120	58° 00' N 178° 00' W	12	753
1988	2	141	57° 50' N 178° 00' W	23	754
1988	2	142	57° 50' N 178° 30' W	46	755
1988	2	143	57° 50' N 177° 00' W	6	756
1988	2	160	57° 40' N 180° 00' E	6	757
1988	2	161	57° 40' N 179° 30' W	6	758
1988	2	162	57° 40' N 178° 00' W	42	759
1988	2	183	57° 30' N 178° 00' W	69	760
1988	2	184	57° 30' N 178° 30' W	36	761
1988	2	186	57° 30' N 177° 30' W	15	762
1988	2	204	57° 20' N 178° 00' W	43	763
1988	2	205	57° 20' N 178° 30' W	63	764
1988	2	206	57° 20' N 177° 00' W	34	765
1988	2	207	57° 20' N 177° 30' W	5	766
1988	2	225	57° 10' N 178° 00' W	69	767
1988	2	226	57° 10' N 178° 30' W	106	768
1988	2	249	57° 00' N 177° 30' W	5	769
1988	2	310	56° 30' N 178° 30' W	36	770
1988	2	330	56° 20' N 178° 00' W	4	771
1988	2	332	56° 20' N 177° 00' W	285	772
1988	2	353	56° 10' N 177° 00' W	10	773
1988	2	354	56° 10' N 177° 30' W	44	774
1988	2	355	56° 10' N 176° 00' W	20	775
1988	2	356	56° 10' N 176° 30' W	7	776
1988	2	372	56° 00' N 178° 00' W	2225	777
1988	2	373	56° 00' N 178° 30' W	976	778
1988	2	374	56° 00' N 177° 00' W	9	779

1988	2	375	56° 00' N 177° 30' W	21	780
1988	2	376	56° 00' N 176° 00' W	38	781
1988	2	393	55° 50' N 178° 00' W	451	782
1988	2	394	55° 50' N 178° 30' W	161	783
1988	2	395	55° 50' N 177° 00' W	5	784
1988	2	396	55° 50' N 177° 30' W	11	785
1988	2	413	55° 40' N 179° 30' W	640	786
1988	2	414	55° 40' N 178° 00' W	257	787
1988	2	415	55° 40' N 178° 30' W	28	788
1988	2	416	55° 40' N 177° 00' W	1	789
1988	2	417	55° 40' N 177° 30' W	27	790
1988	2	431	55° 30' N 179° 00' E	2	791
1988	2	433	55° 30' N 180° 00' E	14	792
1988	2	434	55° 30' N 179° 30' W	719	793
1988	2	435	55° 30' N 178° 00' W	599	794
1988	2	437	55° 30' N 177° 00' W	111	795
1988	2	438	55° 30' N 177° 30' W	25	796
1988	2	439	55° 30' N 176° 00' W	340	797
1988	2	451	55° 20' N 178° 30' E	6	798
1988	2	453	55° 20' N 179° 30' E	12	799
1988	2	456	55° 20' N 178° 00' W	755	800
1988	2	458	55° 20' N 177° 00' W	70	801
1988	2	459	55° 20' N 177° 30' W	33	802
1988	2	479	55° 10' N 177° 00' W	112	803
1988	3	34	58° 40' N 180° 00' E	2	804
1988	3	74	58° 20' N 179° 00' E	67	805
1988	3	77	58° 20' N 179° 30' W	17	806
1988	3	97	58° 10' N 180° 00' E	3	807
1988	3	98	58° 10' N 179° 30' W	31	808
1988	3	99	58° 10' N 178° 00' W	14	809
1988	3	100	58° 10' N 178° 30' W	4	810
1988	3	119	58° 00' N 179° 30' W	3	811
1988	3	139	57° 50' N 180° 00' E	22	812
1988	3	140	57° 50' N 179° 30' W	9	813
1988	3	141	57° 50' N 178° 00' W	67	814
1988	3	142	57° 50' N 178° 30' W	3	815
1988	3	161	57° 40' N 179° 30' W	62	816
1988	3	179	57° 30' N 179° 00' E	1	817
1988	3	181	57° 30' N 180° 00' E	1	818
1988	3	182	57° 30' N 179° 30' W	18	819
1988	3	183	57° 30' N 178° 00' W	26	820
1988	3	203	57° 20' N 179° 30' W	30	821
1988	3	205	57° 20' N 178° 30' W	2	822
1988	3	225	57° 10' N 178° 00' W	15	823
1988	3	271	56° 50' N 176° 00' W	18	824
1988	3	334	56° 20' N 176° 00' W	63	825
1988	3	335	56° 20' N 176° 30' W	2157	826
1988	3	354	56° 10' N 177° 30' W	698	827
1988	3	355	56° 10' N 176° 00' W	354	828

1988	3	356	56° 10' N 176° 30' W	1801	829
1988	3	375	56° 00' N 177° 30' W	145	830
1988	3	376	56° 00' N 176° 00' W	364	831
1988	3	377	56° 00' N 176° 30' W	548	832
1988	3	397	55° 50' N 176° 00' W	12	833
1988	3	398	55° 50' N 176° 30' W	2739	834
1988	3	455	55° 20' N 179° 30' W	14	835
1988	4	184	57° 30' N 178° 30' W	1831	836
1988	4	205	57° 20' N 178° 30' W	1911	837
1988	4	206	57° 20' N 177° 00' W	2001	838
1988	4	225	57° 10' N 178° 00' W	1411	839
1988	4	226	57° 10' N 178° 30' W	524	840
1988	4	227	57° 10' N 177° 00' W	848	841
1988	4	246	57° 00' N 178° 00' W	1565	842
1988	4	247	57° 00' N 178° 30' W	931	843
1988	4	268	56° 50' N 178° 30' W	1806	844
1988	4	269	56° 50' N 177° 00' W	667	845
1988	4	313	56° 30' N 176° 00' W	973	846
1988	4	374	56° 00' N 177° 00' W	614	847
1988	4	394	55° 50' N 178° 30' W	1021	848
1988	4	395	55° 50' N 177° 00' W	575	849
1988	4	396	55° 50' N 177° 30' W	4061	850
1988	4	416	55° 40' N 177° 00' W	345	851
1988	4	417	55° 40' N 177° 30' W	485	852
1988	4	418	55° 40' N 176° 00' W	1322	853
1988	4	419	55° 40' N 176° 30' W	709	854
1988	4	437	55° 30' N 177° 00' W	1305	855
1988	4	439	55° 30' N 176° 00' W	6312	856
1988	4	440	55° 30' N 176° 30' W	8189	857
1988	4	457	55° 20' N 178° 30' W	1610	858
1988	4	458	55° 20' N 177° 00' W	387	859
1988	4	459	55° 20' N 177° 30' W	7452	860
1988	4	460	55° 20' N 176° 00' W	765	861
1988	4	461	55° 20' N 176° 30' W	58	862
1988	5	50	58° 30' N 177° 30' E	467	863
1988	5	77	58° 20' N 179° 30' W	249	864
1988	5	79	58° 20' N 178° 30' W	240	865
1988	5	92	58° 10' N 177° 30' E	216	866
1988	5	113	58° 00' N 177° 30' E	62	867
1988	5	114	58° 00' N 178° 00' E	507	868
1988	5	119	58° 00' N 179° 30' W	19	869
1988	5	120	58° 00' N 178° 00' W	7	870
1988	5	134	57° 50' N 177° 30' E	79	871
1988	5	135	57° 50' N 178° 00' E	121	872
1988	5	142	57° 50' N 178° 30' W	128	873
1988	5	156	57° 40' N 178° 00' E	272	874
1988	5	202	57° 20' N 180° 00' E	244	875
1988	5	205	57° 20' N 178° 30' W	39	876
1988	5	219	57° 10' N 178° 00' E	299	877

1988	5	220	57° 10' N 178° 30' E	169	878
1988	5	226	57° 10' N 178° 30' W	10	879
1988	5	245	57° 00' N 179° 30' W	369	880
1988	5	264	56° 50' N 179° 30' E	9	881
1988	5	267	56° 50' N 178° 00' W	198	882
1988	5	268	56° 50' N 178° 30' W	303	883
1988	5	280	56° 40' N 177° 00' E	90	884
1988	5	282	56° 40' N 178° 00' E	425	885
1988	5	289	56° 40' N 178° 30' W	334	886
1988	5	306	56° 30' N 179° 30' E	34	887
1988	5	307	56° 30' N 180° 00' E	1922	888
1988	5	309	56° 30' N 178° 00' W	909	889
1988	5	310	56° 30' N 178° 30' W	1372	890
1988	5	313	56° 30' N 176° 00' W	129	891
1988	5	327	56° 20' N 179° 30' E	886	892
1988	5	328	56° 20' N 180° 00' E	2094	893
1988	5	333	56° 20' N 177° 30' W	235	894
1988	5	348	56° 10' N 179° 30' E	576	895
1988	5	349	56° 10' N 180° 00' E	1466	896
1988	5	351	56° 10' N 178° 00' W	110	897
1988	5	354	56° 10' N 177° 30' W	122	898
1988	5	363	56° 00' N 176° 30' E	94	899
1988	5	371	56° 00' N 179° 30' W	60	900
1988	5	375	56° 00' N 177° 30' W	32	901
1988	5	397	55° 50' N 176° 00' W	37	902
1988	5	409	55° 40' N 178° 30' E	177	903
1988	5	412	55° 40' N 180° 00' E	11	904
1988	5	418	55° 40' N 176° 00' W	34	905
1988	5	433	55° 30' N 180° 00' E	22	906
1988	6	14	58° 50' N 179° 30' W	1951	907
1988	6	15	58° 50' N 178° 00' W	240	908
1988	6	35	58° 40' N 179° 30' W	2705	909
1988	6	36	58° 40' N 178° 00' W	482	910
1988	6	56	58° 30' N 179° 30' W	7081	911
1988	6	57	58° 30' N 178° 00' W	4137	912
1988	6	77	58° 20' N 179° 30' W	455	913
1988	6	78	58° 20' N 178° 00' W	6151	914
1988	6	98	58° 10' N 179° 30' W	526	915
1988	6	99	58° 10' N 178° 00' W	1929	916
1988	6	119	58° 00' N 179° 30' W	34	917
1988	6	120	58° 00' N 178° 00' W	1261	918
1988	6	121	58° 00' N 178° 30' W	526	919
1988	6	140	57° 50' N 179° 30' W	84	920
1988	6	141	57° 50' N 178° 00' W	96	921
1988	6	142	57° 50' N 178° 30' W	61	922
1988	6	143	57° 50' N 177° 00' W	323	923
1988	6	160	57° 40' N 180° 00' E	27	924
1988	6	161	57° 40' N 179° 30' W	82	925
1988	6	162	57° 40' N 178° 00' W	26	926

1988	6	163	57° 40' N 178° 30' W	141	927
1988	6	164	57° 40' N 177° 00' W	268	928
1988	6	179	57° 30' N 179° 00' E	13	929
1988	6	183	57° 30' N 178° 00' W	56	930
1988	6	185	57° 30' N 177° 00' W	960	931
1988	6	204	57° 20' N 178° 00' W	49	932
1988	6	205	57° 20' N 178° 30' W	2284	933
1988	6	206	57° 20' N 177° 00' W	1465	934
1988	6	228	57° 10' N 177° 30' W	1259	935
1988	6	248	57° 00' N 177° 00' W	1147	936
1988	6	249	57° 00' N 177° 30' W	600	937
1988	6	264	56° 50' N 179° 30' E	37	938
1988	6	270	56° 50' N 177° 30' W	585	939
1988	6	271	56° 50' N 176° 00' W	38	940
1988	6	290	56° 40' N 177° 00' W	35	941
1988	6	292	56° 40' N 176° 00' W	450	942
1988	6	348	56° 10' N 179° 30' E	36	943
1988	6	364	56° 00' N 177° 00' E	21	944
1988	6	365	56° 00' N 177° 30' E	18	945
1988	6	406	55° 40' N 177° 00' E	37	946
1988	6	476	55° 10' N 179° 30' W	46	947
1988	6	478	55° 10' N 178° 30' W	70	948
1988	7	203	57° 20' N 179° 30' W	293	949
1988	7	227	57° 10' N 177° 00' W	1598	950
1988	7	247	57° 00' N 178° 30' W	468	951
1988	7	249	57° 00' N 177° 30' W	780	952
1988	7	270	56° 50' N 177° 30' W	2109	953
1988	7	284	56° 40' N 179° 00' E	15	954
1988	7	291	56° 40' N 177° 30' W	367	955
1988	7	292	56° 40' N 176° 00' W	324	956
1988	7	313	56° 30' N 176° 00' W	1395	957
1988	7	327	56° 20' N 179° 30' E	9	958
1988	7	334	56° 20' N 176° 00' W	1084	959
1988	7	355	56° 10' N 176° 00' W	1367	960
1988	7	360	56° 00' N 175° 00' E	671	961
1988	7	361	56° 00' N 175° 30' E	419	962
1988	7	368	56° 00' N 179° 00' E	35	963
1988	7	370	56° 00' N 180° 00' E	386	964
1988	7	371	56° 00' N 179° 30' W	192	965
1988	7	389	55° 50' N 179° 00' E	34	966
1988	7	406	55° 40' N 177° 00' E	595	967
1988	7	411	55° 40' N 179° 30' E	309	968
1988	7	414	55° 40' N 178° 00' W	109	969
1988	7	417	55° 40' N 177° 30' W	945	970
1988	7	419	55° 40' N 176° 30' W	82	971
1988	7	435	55° 30' N 178° 00' W	13	972
1988	7	437	55° 30' N 177° 00' W	314	973
1988	7	438	55° 30' N 177° 30' W	2046	974
1988	7	439	55° 30' N 176° 00' W	6593	975

1988	7	456	55° 20' N	178° 00' W	1826	976
1988	7	457	55° 20' N	178° 30' W	2066	977
1988	7	458	55° 20' N	177° 00' W	829	978
1988	7	459	55° 20' N	177° 30' W	82	979
1988	7	460	55° 20' N	176° 00' W	1337	980
1988	7	478	55° 10' N	178° 30' W	124	981
1988	7	479	55° 10' N	177° 00' W	21	982
1988	8	33	58° 40' N	179° 30' E	247	983
1988	8	278	56° 40' N	176° 00' E	227	984
1988	8	298	56° 30' N	175° 30' E	190	985
1988	8	306	56° 30' N	179° 30' E	415	986
1988	8	307	56° 30' N	180° 00' E	65	987
1988	8	319	56° 20' N	175° 30' E	223	988
1988	8	329	56° 20' N	179° 30' W	495	989
1988	8	334	56° 20' N	176° 00' W	302	990
1988	8	335	56° 20' N	176° 30' W	318	991
1988	8	340	56° 10' N	175° 30' E	510	992
1988	8	341	56° 10' N	176° 00' E	218	993
1988	8	349	56° 10' N	180° 00' E	740	994
1988	8	350	56° 10' N	179° 30' W	430	995
1988	8	351	56° 10' N	178° 00' W	120	996
1988	8	356	56° 10' N	176° 30' W	315	997
1988	8	361	56° 00' N	175° 30' E	97	998
1988	8	362	56° 00' N	176° 00' E	421	999
1988	8	363	56° 00' N	176° 30' E	1206	1000
1988	8	364	56° 00' N	177° 00' E	620	1001
1988	8	366	56° 00' N	178° 00' E	195	1002
1988	8	369	56° 00' N	179° 30' E	195	1003
1988	8	370	56° 00' N	180° 00' E	1054	1004
1988	8	377	56° 00' N	176° 30' W	233	1005
1988	8	382	55° 50' N	175° 30' E	140	1006
1988	8	383	55° 50' N	176° 00' E	408	1007
1988	8	384	55° 50' N	176° 30' E	1299	1008
1988	8	385	55° 50' N	177° 00' E	378	1009
1988	8	387	55° 50' N	178° 00' E	98	1010
1988	8	390	55° 50' N	179° 30' E	629	1011
1988	8	405	55° 40' N	176° 30' E	1261	1012
1988	8	406	55° 40' N	177° 00' E	297	1013
1988	8	407	55° 40' N	177° 30' E	265	1014
1988	8	408	55° 40' N	178° 00' E	72	1015
1988	8	411	55° 40' N	179° 30' E	183	1016
1988	8	412	55° 40' N	180° 00' E	2128	1017
1988	8	414	55° 40' N	178° 00' W	373	1018
1988	8	415	55° 40' N	178° 30' W	244	1019
1988	8	419	55° 40' N	176° 30' W	177	1020
1988	8	429	55° 30' N	178° 00' E	581	1021
1988	8	430	55° 30' N	178° 30' E	241	1022
1988	8	431	55° 30' N	179° 00' E	1249	1023
1988	8	432	55° 30' N	179° 30' E	313	1024



1988	8	451	55° 20' N	178° 30' E	260	1025
1988	9	214	57° 10' N	175° 30' E	209	1026
1988	9	255	56° 50' N	175° 00' E	46	1027
1988	9	256	56° 50' N	175° 30' E	107	1028
1988	9	260	56° 50' N	177° 30' E	513	1029
1988	9	269	56° 50' N	177° 00' W	261	1030
1988	9	281	56° 40' N	177° 30' E	51	1031
1988	9	282	56° 40' N	178° 00' E	85	1032
1988	9	283	56° 40' N	178° 30' E	41	1033
1988	9	288	56° 40' N	178° 00' W	62	1034
1988	9	289	56° 40' N	178° 30' W	194	1035
1988	9	299	56° 30' N	176° 00' E	121	1036
1988	9	310	56° 30' N	178° 30' W	847	1037
1988	9	318	56° 20' N	175° 00' E	322	1038
1988	9	319	56° 20' N	175° 30' E	84	1039
1988	9	326	56° 20' N	179° 00' E	101	1040
1988	9	330	56° 20' N	178° 00' W	351	1041
1988	9	332	56° 20' N	177° 00' W	106	1042
1988	9	339	56° 10' N	175° 00' E	65	1043
1988	9	341	56° 10' N	176° 00' E	98	1044
1988	9	345	56° 10' N	178° 00' E	153	1045
1988	9	373	56° 00' N	178° 30' W	164	1046
1988	9	374	56° 00' N	177° 00' W	99	1047
1988	9	383	55° 50' N	176° 00' E	27	1048
1988	9	384	55° 50' N	176° 30' E	240	1049
1988	9	385	55° 50' N	177° 00' E	449	1050
1988	9	394	55° 50' N	178° 30' W	555	1051
1988	9	395	55° 50' N	177° 00' W	203	1052
1988	9	406	55° 40' N	177° 00' E	284	1053
1988	10	260	56° 50' N	177° 30' E	266	1054
1988	10	261	56° 50' N	178° 00' E	293	1055
1988	10	265	56° 50' N	180° 00' E	1556	1056
1988	10	266	56° 50' N	179° 30' W	257	1057
1988	10	280	56° 40' N	177° 00' E	86	1058
1988	10	281	56° 40' N	177° 30' E	135	1059
1988	10	283	56° 40' N	178° 30' E	73	1060
1988	10	284	56° 40' N	179° 00' E	31	1061
1988	10	289	56° 40' N	178° 30' W	59	1062
1988	10	301	56° 30' N	177° 00' E	1107	1063
1988	10	304	56° 30' N	178° 30' E	551	1064
1988	10	305	56° 30' N	179° 00' E	51	1065
1988	10	320	56° 20' N	176° 00' E	450	1066
1988	10	323	56° 20' N	177° 30' E	387	1067
1988	10	325	56° 20' N	178° 30' E	82	1068
1988	10	341	56° 10' N	176° 00' E	74	1069
1988	10	342	56° 10' N	176° 30' E	429	1070
1988	10	346	56° 10' N	178° 30' E	26	1071
1988	10	347	56° 10' N	179° 00' E	310	1072
1988	10	348	56° 10' N	179° 30' E	87	1073

1988	10	368	56° 00' N	179° 00' E	44	1074
1988	10	369	56° 00' N	179° 30' E	571	1075
1988	10	370	56° 00' N	180° 00' E	67	1076
1988	10	389	55° 50' N	179° 00' E	77	1077
1988	10	390	55° 50' N	179° 30' E	346	1078
1988	11	171	57° 30' N	175° 00' E	1896	1079
1988	11	172	57° 30' N	175° 30' E	574	1080
1988	11	173	57° 30' N	176° 00' E	106	1081
1988	11	191	57° 20' N	174° 30' E	2165	1082
1988	11	192	57° 20' N	175° 00' E	2389	1083
1988	11	194	57° 20' N	176° 00' E	786	1084
1988	11	212	57° 10' N	174° 30' E	1280	1085
1988	11	213	57° 10' N	175° 00' E	1063	1086
1988	11	214	57° 10' N	175° 30' E	3130	1087
1988	11	215	57° 10' N	176° 00' E	333	1088
1988	11	234	57° 00' N	175° 00' E	1460	1089
1988	11	235	57° 00' N	175° 30' E	1265	1090
1988	11	236	57° 00' N	176° 00' E	120	1091
1988	11	244	57° 00' N	180° 00' E	111	1092
1988	11	255	56° 50' N	175° 00' E	828	1093
1988	11	256	56° 50' N	175° 30' E	554	1094
1988	11	261	56° 50' N	178° 00' E	439	1095
1988	11	262	56° 50' N	178° 30' E	466	1096
1988	11	265	56° 50' N	180° 00' E	68	1097
1988	11	280	56° 40' N	177° 00' E	2015	1098
1988	11	285	56° 40' N	179° 30' E	278	1099
1988	11	302	56° 30' N	177° 30' E	274	1100
1988	11	306	56° 30' N	179° 30' E	311	1101
1988	11	307	56° 30' N	180° 00' E	281	1102
1988	11	322	56° 20' N	177° 00' E	534	1103
1988	11	323	56° 20' N	177° 30' E	643	1104
1988	11	324	56° 20' N	178° 00' E	261	1105
1988	11	328	56° 20' N	180° 00' E	112	1106
1988	11	344	56° 10' N	177° 30' E	498	1107
1988	11	345	56° 10' N	178° 00' E	307	1108
1988	11	346	56° 10' N	178° 30' E	140	1109
1988	11	347	56° 10' N	179° 00' E	626	1110
1988	11	348	56° 10' N	179° 30' E	90	1111
1988	11	361	56° 00' N	175° 30' E	102	1112
1988	11	362	56° 00' N	176° 00' E	114	1113
1988	11	364	56° 00' N	177° 00' E	217	1114
1988	11	366	56° 00' N	178° 00' E	452	1115
1988	11	383	55° 50' N	176° 00' E	142	1116
1988	11	384	55° 50' N	176° 30' E	258	1117
1988	11	385	55° 50' N	177° 00' E	490	1118
1988	11	386	55° 50' N	177° 30' E	371	1119
1988	11	406	55° 40' N	177° 00' E	40	1120
1988	11	407	55° 40' N	177° 30' E	394	1121
1988	11	408	55° 40' N	178° 00' E	184	1122

1988	11	409	55° 40' N	178° 30' E	252	1123
1988	11	410	55° 40' N	179° 00' E	224	1124
1988	11	429	55° 30' N	178° 00' E	700	1125
1988	12	152	57° 40' N	176° 00' E	817	1126
1988	12	173	57° 30' N	176° 00' E	1206	1127
1988	12	174	57° 30' N	176° 30' E	1778	1128
1988	12	175	57° 30' N	177° 00' E	623	1129
1988	12	186	57° 30' N	177° 30' W	470	1130
1988	12	194	57° 20' N	176° 00' E	1316	1131
1988	12	195	57° 20' N	176° 30' E	3201	1132
1988	12	196	57° 20' N	177° 00' E	1229	1133
1988	12	208	57° 20' N	176° 00' W	490	1134
1988	12	215	57° 10' N	176° 00' E	1732	1135
1988	12	216	57° 10' N	176° 30' E	4121	1136
1988	12	217	57° 10' N	177° 00' E	3910	1137
1988	12	236	57° 00' N	176° 00' E	2077	1138
1988	12	237	57° 00' N	176° 30' E	3765	1139
1988	12	258	56° 50' N	176° 30' E	1071	1140
1988	12	260	56° 50' N	177° 30' E	389	1141
1988	12	275	56° 40' N	174° 30' E	445	1142
1988	12	301	56° 30' N	177° 00' E	246	1143
1988	12	312	56° 30' N	177° 30' W	994	1144
1988	12	327	56° 20' N	179° 30' E	398	1145
1988	12	335	56° 20' N	176° 30' W	442	1146
1988	12	346	56° 10' N	178° 30' E	5524	1147
1988	12	347	56° 10' N	179° 00' E	683	1148
1988	12	348	56° 10' N	179° 30' E	612	1149
1988	12	351	56° 10' N	178° 00' W	2411	1150
1988	12	356	56° 10' N	176° 30' W	660	1151
1988	12	361	56° 00' N	175° 30' E	712	1152
1988	12	368	56° 00' N	179° 00' E	705	1153
1988	12	386	55° 50' N	177° 30' E	421	1154
1988	12	387	55° 50' N	178° 00' E	465	1155
1988	12	388	55° 50' N	178° 30' E	676	1156
1988	12	428	55° 30' N	177° 30' E	398	1157
1988	12	430	55° 30' N	178° 30' E	550	1158
1988	12	432	55° 30' N	179° 30' E	940	1159
1988	12	450	55° 20' N	178° 00' E	248	1160
1988	12	451	55° 20' N	178° 30' E	551	1161
1989	1	297	56° 30' N	175° 00' E	364	1162
1989	1	319	56° 20' N	175° 30' E	159	1163
1989	1	327	56° 20' N	179° 30' E	342	1164
1989	1	332	56° 20' N	177° 00' W	32	1165
1989	1	340	56° 10' N	175° 30' E	1085	1166
1989	1	352	56° 10' N	178° 30' W	335	1167
1989	1	353	56° 10' N	177° 00' W	535	1168
1989	1	354	56° 10' N	177° 30' W	1183	1169
1989	1	365	56° 00' N	177° 30' E	1055	1170
1989	1	366	56° 00' N	178° 00' E	3836	1171

1989	1	367	56° 00' N	178° 30' E	1473	1172
1989	1	372	56° 00' N	178° 00' W	774	1173
1989	1	373	56° 00' N	178° 30' W	304	1174
1989	1	374	56° 00' N	177° 00' W	308	1175
1989	1	375	56° 00' N	177° 30' W	488	1176
1989	1	376	56° 00' N	176° 00' W	2	1177
1989	1	377	56° 00' N	176° 30' W	164	1178
1989	1	386	55° 50' N	177° 30' E	2535	1179
1989	1	387	55° 50' N	178° 00' E	1598	1180
1989	1	394	55° 50' N	178° 30' W	1072	1181
1989	1	395	55° 50' N	177° 00' W	42	1182
1989	1	396	55° 50' N	177° 30' W	43	1183
1989	1	398	55° 50' N	176° 30' W	48	1184
1989	1	406	55° 40' N	177° 00' E	1164	1185
1989	1	407	55° 40' N	177° 30' E	1800	1186
1989	1	408	55° 40' N	178° 00' E	2238	1187
1989	1	411	55° 40' N	179° 30' E	974	1188
1989	1	416	55° 40' N	177° 00' W	59	1189
1989	1	417	55° 40' N	177° 30' W	34	1190
1989	1	418	55° 40' N	176° 00' W	46	1191
1989	1	428	55° 30' N	177° 30' E	1342	1192
1989	1	429	55° 30' N	178° 00' E	295	1193
1989	1	434	55° 30' N	179° 30' W	265	1194
1989	1	441	55° 30' N	175° 00' W	26	1195
1989	1	454	55° 20' N	180° 00' E	1246	1196
1989	1	455	55° 20' N	179° 30' W	1874	1197
1989	1	458	55° 20' N	177° 00' W	89	1198
1989	1	477	55° 10' N	178° 00' W	59	1199
1989	1	478	55° 10' N	178° 30' W	103	1200
1989	2	308	56° 30' N	179° 30' W	101	1201
1989	2	331	56° 20' N	178° 30' W	2	1202
1989	2	355	56° 10' N	176° 00' W	242	1203
1989	2	356	56° 10' N	176° 30' W	301	1204
1989	2	376	56° 00' N	176° 00' W	305	1205
1989	2	377	56° 00' N	176° 30' W	1098	1206
1989	2	397	55° 50' N	176° 00' W	10	1207
1989	2	398	55° 50' N	176° 30' W	252	1208
1989	2	416	55° 40' N	177° 00' W	2	1209
1989	2	418	55° 40' N	176° 00' W	66	1210
1989	2	419	55° 40' N	176° 30' W	1263	1211
1989	2	440	55° 30' N	176° 30' W	237	1212
1989	2	461	55° 20' N	176° 30' W	287	1213
1989	3	334	56° 20' N	176° 00' W	549	1214
1989	3	335	56° 20' N	176° 30' W	8	1215
1989	3	355	56° 10' N	176° 00' W	3	1216
1989	3	356	56° 10' N	176° 30' W	1	1217
1989	3	377	56° 00' N	176° 30' W	6	1218
1989	3	398	55° 50' N	176° 30' W	258	1219
1989	3	419	55° 40' N	176° 30' W	38	1220

1989	3	420	55° 40' N 175° 00' W	117	1221
1989	3	438	55° 30' N 177° 30' W	1279	1222
1989	3	439	55° 30' N 176° 00' W	313	1223
1989	3	458	55° 20' N 177° 00' W	1296	1224
1989	3	459	55° 20' N 177° 30' W	2642	1225
1989	3	460	55° 20' N 176° 00' W	978	1226
1989	4	33	58° 40' N 179° 30' E	70	1227
1989	4	54	58° 30' N 179° 30' E	81	1228
1989	4	34	58° 40' N 180° 00' E	67	1229
1989	4	55	58° 30' N 180° 00' E	139	1230
1989	4	56	58° 30' N 179° 30' W	1534	1231
1989	4	57	58° 30' N 178° 00' W	1657	1232
1989	4	77	58° 20' N 179° 30' W	1342	1233
1989	4	99	58° 10' N 178° 00' W	216	1234
1989	4	100	58° 10' N 178° 30' W	654	1235
1989	4	121	58° 00' N 178° 30' W	168	1236
1989	4	159	57° 40' N 179° 30' E	454	1237
1989	4	180	57° 30' N 179° 30' E	320	1238
1989	4	160	57° 40' N 180° 00' E	3839	1239
1989	4	181	57° 30' N 180° 00' E	241	1240
1989	4	142	57° 50' N 178° 30' W	453	1241
1989	4	163	57° 40' N 178° 30' W	97	1242
1989	4	143	57° 50' N 177° 00' W	825	1243
1989	4	185	57° 30' N 177° 00' W	102	1244
1989	4	186	57° 30' N 177° 30' W	85	1245
1989	4	202	57° 20' N 180° 00' E	460	1246
1989	4	246	57° 00' N 178° 00' W	1258	1247
1989	4	247	57° 00' N 178° 30' W	370	1248
1989	4	248	57° 00' N 177° 00' W	1110	1249
1989	4	249	57° 00' N 177° 30' W	413	1250
1989	4	208	57° 20' N 176° 00' W	496	1251
1989	4	229	57° 10' N 176° 00' W	613	1252
1989	4	250	57° 00' N 176° 00' W	791	1253
1989	4	270	56° 50' N 177° 30' W	54	1254
1989	4	271	56° 50' N 176° 00' W	223	1255
1989	4	292	56° 40' N 176° 00' W	6152	1256
1989	4	335	56° 20' N 176° 30' W	595	1257
1989	4	437	55° 30' N 177° 00' W	106	1258
1989	4	438	55° 30' N 177° 30' W	2322	1259
1989	4	418	55° 40' N 176° 00' W	479	1260
1989	4	457	55° 20' N 178° 30' W	188	1261
1989	4	458	55° 20' N 177° 00' W	456	1262
1989	4	459	55° 20' N 177° 30' W	4143	1263
1989	4	460	55° 20' N 176° 00' W	104	1264
1989	5	76	58° 20' N 180° 00' E	775	1265
1989	5	97	58° 10' N 180° 00' E	216	1266
1989	5	100	58° 10' N 178° 30' W	243	1267
1989	5	121	58° 00' N 178° 30' W	329	1268
1989	5	141	57° 50' N 178° 00' W	666	1269

1989	5	143	57° 50' N 177° 00' W	720	1270
1989	5	164	57° 40' N 177° 00' W	1227	1271
1989	5	165	57° 40' N 177° 30' W	2173	1272
1989	5	185	57° 30' N 177° 00' W	3299	1273
1989	5	186	57° 30' N 177° 30' W	10269	1274
1989	5	205	57° 20' N 178° 30' W	2190	1275
1989	5	206	57° 20' N 177° 00' W	641	1276
1989	5	207	57° 20' N 177° 30' W	1192	1277
1989	5	208	57° 20' N 176° 00' W	1576	1278
1989	5	225	57° 10' N 178° 00' W	593	1279
1989	5	226	57° 10' N 178° 30' W	425	1280
1989	5	227	57° 10' N 177° 00' W	644	1281
1989	5	228	57° 10' N 177° 30' W	1096	1282
1989	5	229	57° 10' N 176° 00' W	1259	1283
1989	5	246	57° 00' N 178° 00' W	1747	1284
1989	5	247	57° 00' N 178° 30' W	1838	1285
1989	5	248	57° 00' N 177° 00' W	358	1286
1989	5	249	57° 00' N 177° 30' W	787	1287
1989	5	269	56° 50' N 177° 00' W	775	1288
1989	5	271	56° 50' N 176° 00' W	1551	1289
1989	5	290	56° 40' N 177° 00' W	431	1290
1989	5	291	56° 40' N 177° 30' W	801	1291
1989	5	311	56° 30' N 177° 00' W	501	1292
1989	5	312	56° 30' N 177° 30' W	1633	1293
1989	6	121	58° 00' N 178° 30' W	165	1294
1989	6	142	57° 50' N 178° 30' W	396	1295
1989	6	143	57° 50' N 177° 00' W	1537	1296
1989	6	164	57° 40' N 177° 00' W	578	1297
1989	6	165	57° 40' N 177° 30' W	7642	1298
1989	6	183	57° 30' N 178° 00' W	491	1299
1989	6	184	57° 30' N 178° 30' W	1210	1300
1989	6	185	57° 30' N 177° 00' W	6129	1301
1989	6	186	57° 30' N 177° 30' W	2424	1302
1989	6	205	57° 20' N 178° 30' W	542	1303
1989	6	206	57° 20' N 177° 00' W	225	1304
1989	6	207	57° 20' N 177° 30' W	626	1305
1989	6	208	57° 20' N 176° 00' W	844	1306
1989	6	226	57° 10' N 178° 30' W	322	1307
1989	6	228	57° 10' N 177° 30' W	970	1308
1989	6	248	57° 00' N 177° 00' W	2095	1309
1989	6	249	57° 00' N 177° 30' W	833	1310
1989	6	268	56° 50' N 178° 30' W	810	1311
1989	6	289	56° 40' N 178° 30' W	463	1312
1989	6	290	56° 40' N 177° 00' W	1198	1313
1989	6	291	56° 40' N 177° 30' W	437	1314
1989	6	313	56° 30' N 176° 00' W	102	1315
1989	6	332	56° 20' N 177° 00' W	542	1316
1989	6	354	56° 10' N 177° 30' W	15	1317
1989	6	355	56° 10' N 176° 00' W	85	1318

1989	6	356	56° 10' N 176° 30' W	11	1319
1989	6	376	56° 00' N 176° 00' W	61	1320
1989	6	393	55° 50' N 178° 00' W	162	1321
1989	6	394	55° 50' N 178° 30' W	26	1322
1989	6	395	55° 50' N 177° 00' W	85	1323
1989	6	415	55° 40' N 178° 30' W	69	1324
1989	6	416	55° 40' N 177° 00' W	53	1325
1989	6	434	55° 30' N 179° 30' W	872	1326
1989	6	435	55° 30' N 178° 00' W	396	1327
1989	6	436	55° 30' N 178° 30' W	342	1328
1989	6	438	55° 30' N 177° 30' W	91	1329
1989	7	36	58° 40' N 178° 00' W	1121	1330
1989	7	57	58° 30' N 178° 00' W	2753	1331
1989	7	78	58° 20' N 178° 00' W	417	1332
1989	7	79	58° 20' N 178° 30' W	2746	1333
1989	7	100	58° 10' N 178° 30' W	468	1334
1989	7	308	56° 30' N 179° 30' W	159	1335
1989	7	267	56° 50' N 178° 00' W	60	1336
1989	7	289	56° 40' N 178° 30' W	94	1337
1989	7	270	56° 50' N 177° 30' W	144	1338
1989	7	290	56° 40' N 177° 00' W	251	1339
1989	7	312	56° 30' N 177° 30' W	754	1340
1989	7	292	56° 40' N 176° 00' W	457	1341
1989	7	313	56° 30' N 176° 00' W	940	1342
1989	7	372	56° 00' N 178° 00' W	58	1343
1989	7	373	56° 00' N 178° 30' W	15	1344
1989	7	332	56° 20' N 177° 00' W	460	1345
1989	7	333	56° 20' N 177° 30' W	1509	1346
1989	7	354	56° 10' N 177° 30' W	631	1347
1989	7	375	56° 00' N 177° 30' W	16	1348
1989	7	334	56° 20' N 176° 00' W	408	1349
1989	7	355	56° 10' N 176° 00' W	2055	1350
1989	7	356	56° 10' N 176° 30' W	1175	1351
1989	7	376	56° 00' N 176° 00' W	389	1352
1989	7	377	56° 00' N 176° 30' W	1671	1353
1989	7	432	55° 30' N 179° 30' E	505	1354
1989	7	434	55° 30' N 179° 30' W	113	1355
1989	7	397	55° 50' N 176° 00' W	373	1356
1989	7	398	55° 50' N 176° 30' W	1158	1357
1989	7	418	55° 40' N 176° 00' W	268	1358
1989	7	419	55° 40' N 176° 30' W	57	1359
1989	7	439	55° 30' N 176° 00' W	467	1360
1989	7	440	55° 30' N 176° 30' W	514	1361
1989	7	441	55° 30' N 175° 00' W	301	1362
1989	7	453	55° 20' N 179° 30' E	86	1363
1989	7	455	55° 20' N 179° 30' W	637	1364
1989	7	461	55° 20' N 176° 30' W	198	1365
1989	8	186	57° 30' N 177° 30' W	438	1366
1989	8	202	57° 20' N 180° 00' E	372	1367

1989	8	246	57° 00' N 178° 00' W	281	1368
1989	8	267	56° 50' N 178° 00' W	74	1369
1989	8	268	56° 50' N 178° 30' W	44	1370
1989	8	285	56° 40' N 179° 30' E	675	1371
1989	8	286	56° 40' N 180° 00' E	508	1372
1989	8	287	56° 40' N 179° 30' W	153	1373
1989	8	288	56° 40' N 178° 00' W	701	1374
1989	8	289	56° 40' N 178° 30' W	81	1375
1989	8	290	56° 40' N 177° 00' W	231	1376
1989	8	291	56° 40' N 177° 30' W	409	1377
1989	8	292	56° 40' N 176° 00' W	132	1378
1989	8	293	56° 40' N 176° 30' W	865	1379
1989	8	307	56° 30' N 180° 00' E	383	1380
1989	8	308	56° 30' N 179° 30' W	744	1381
1989	8	309	56° 30' N 178° 00' W	142	1382
1989	8	310	56° 30' N 178° 30' W	107	1383
1989	8	311	56° 30' N 177° 00' W	26	1384
1989	8	312	56° 30' N 177° 30' W	134	1385
1989	8	313	56° 30' N 176° 00' W	35	1386
1989	8	329	56° 20' N 179° 30' W	254	1387
1989	8	330	56° 20' N 178° 00' W	76	1388
1989	8	354	56° 10' N 177° 30' W	85	1389
1989	8	356	56° 10' N 176° 30' W	414	1390
1989	8	371	56° 00' N 179° 30' W	179	1391
1989	8	374	56° 00' N 177° 00' W	328	1392
1989	8	376	56° 00' N 176° 00' W	64	1393
1989	8	396	55° 50' N 177° 30' W	231	1394
1989	8	397	55° 50' N 176° 00' W	222	1395
1989	8	415	55° 40' N 178° 30' W	1134	1396
1989	8	418	55° 40' N 176° 00' W	838	1397
1989	8	419	55° 40' N 176° 30' W	365	1398
1989	8	434	55° 30' N 179° 30' W	612	1399
1989	8	435	55° 30' N 178° 00' W	456	1400
1989	8	439	55° 30' N 176° 00' W	671	1401
1989	9	36	58° 40' N 178° 00' W	323	1402
1989	9	50	58° 30' N 177° 30' E	434	1403
1989	9	79	58° 20' N 178° 30' W	243	1404
1989	9	92	58° 10' N 177° 30' E	61	1405
1989	9	93	58° 10' N 178° 00' E	52	1406
1989	9	113	58° 00' N 177° 30' E	31	1407
1989	9	134	57° 50' N 177° 30' E	32	1408
1989	9	155	57° 40' N 177° 30' E	25	1409
1989	9	156	57° 40' N 178° 00' E	206	1410
1989	9	174	57° 30' N 176° 30' E	186	1411
1989	9	175	57° 30' N 177° 00' E	186	1412
1989	9	176	57° 30' N 177° 30' E	77	1413
1989	9	177	57° 30' N 178° 00' E	194	1414
1989	9	178	57° 30' N 178° 30' E	164	1415
1989	9	180	57° 30' N 179° 30' E	387	1416



1989	9	184	57° 30' N	178° 30' W	155	1417
1989	9	195	57° 20' N	176° 30' E	207	1418
1989	9	197	57° 20' N	177° 30' E	78	1419
1989	9	199	57° 20' N	178° 30' E	32	1420
1989	9	200	57° 20' N	179° 00' E	76	1421
1989	9	202	57° 20' N	180° 00' E	140	1422
1989	9	217	57° 10' N	177° 00' E	207	1423
1989	9	218	57° 10' N	177° 30' E	240	1424
1989	9	219	57° 10' N	178° 00' E	64	1425
1989	9	222	57° 10' N	179° 30' E	510	1426
1989	9	242	57° 00' N	179° 00' E	5	1427
1989	9	260	56° 50' N	177° 30' E	110	1428
1989	9	261	56° 50' N	178° 00' E	459	1429
1989	9	263	56° 50' N	179° 00' E	557	1430
1989	9	264	56° 50' N	179° 30' E	124	1431
1989	9	283	56° 40' N	178° 30' E	31	1432
1989	9	289	56° 40' N	178° 30' W	141	1433
1989	9	302	56° 30' N	177° 30' E	454	1434
1989	9	303	56° 30' N	178° 00' E	269	1435
1989	9	304	56° 30' N	178° 30' E	89	1436
1989	9	305	56° 30' N	179° 00' E	207	1437
1989	9	326	56° 20' N	179° 00' E	227	1438
1989	9	327	56° 20' N	179° 30' E	807	1439
1989	9	330	56° 20' N	178° 00' W	43	1440
1989	9	344	56° 10' N	177° 30' E	36	1441
1989	9	345	56° 10' N	178° 00' E	327	1442
1989	9	346	56° 10' N	178° 30' E	202	1443
1989	9	351	56° 10' N	178° 00' W	224	1444
1989	9	363	56° 00' N	176° 30' E	106	1445
1989	9	408	55° 40' N	178° 00' E	41	1446
1989	10	29	58° 40' N	177° 30' E	77	1447
1989	10	49	58° 30' N	177° 00' E	473	1448
1989	10	50	58° 30' N	177° 30' E	372	1449
1989	10	58	58° 30' N	178° 30' W	332	1450
1989	10	71	58° 20' N	177° 30' E	75	1451
1989	10	89	58° 10' N	176° 00' E	834	1452
1989	10	90	58° 10' N	176° 30' E	1134	1453
1989	10	91	58° 10' N	177° 00' E	143	1454
1989	10	92	58° 10' N	177° 30' E	5	1455
1989	10	101	58° 10' N	177° 00' W	641	1456
1989	10	110	58° 00' N	176° 00' E	107	1457
1989	10	111	58° 00' N	176° 30' E	139	1458
1989	10	112	58° 00' N	177° 00' E	1088	1459
1989	10	130	57° 50' N	175° 30' E	564	1460
1989	10	131	57° 50' N	176° 00' E	289	1461
1989	10	132	57° 50' N	176° 30' E	390	1462
1989	10	133	57° 50' N	177° 00' E	2347	1463
1989	10	150	57° 40' N	175° 00' E	514	1464
1989	10	152	57° 40' N	176° 00' E	419	1465

1989	10	154	57° 40' N	177° 00' E	302	1466
1989	10	172	57° 30' N	175° 30' E	360	1467
1989	10	175	57° 30' N	177° 00' E	26	1468
1989	10	178	57° 30' N	178° 30' E	18	1469
1989	10	194	57° 20' N	176° 00' E	483	1470
1989	10	196	57° 20' N	177° 00' E	79	1471
1989	10	197	57° 20' N	177° 30' E	528	1472
1989	10	198	57° 20' N	178° 00' E	169	1473
1989	10	213	57° 10' N	175° 00' E	515	1474
1989	10	214	57° 10' N	175° 30' E	226	1475
1989	10	217	57° 10' N	177° 00' E	165	1476
1989	10	218	57° 10' N	177° 30' E	181	1477
1989	10	235	57° 00' N	175° 30' E	285	1478
1989	10	238	57° 00' N	177° 00' E	2085	1479
1989	10	239	57° 00' N	177° 30' E	25	1480
1989	10	259	56° 50' N	177° 00' E	96	1481
1989	10	261	56° 50' N	178° 00' E	18	1482
1989	10	303	56° 30' N	178° 00' E	126	1483
1989	10	304	56° 30' N	178° 30' E	141	1484
1989	10	320	56° 20' N	176° 00' E	65	1485
1989	10	321	56° 20' N	176° 30' E	424	1486
1989	10	326	56° 20' N	179° 00' E	27	1487
1989	10	334	56° 20' N	176° 00' W	130	1488
1989	11	31	58° 40' N	178° 30' E	54	1489
1989	11	89	58° 10' N	176° 00' E	1143	1490
1989	11	109	58° 00' N	175° 30' E	3206	1491
1989	11	110	58° 00' N	176° 00' E	378	1492
1989	11	132	57° 50' N	176° 30' E	667	1493
1989	11	152	57° 40' N	176° 00' E	292	1494
1989	11	153	57° 40' N	176° 30' E	942	1495
1989	11	171	57° 30' N	175° 00' E	476	1496
1989	11	235	57° 00' N	175° 30' E	683	1497
1989	11	239	57° 00' N	177° 30' E	266	1498
1989	11	261	56° 50' N	178° 00' E	442	1499
1989	11	274	56° 40' N	174° 00' E	947	1500
1989	11	279	56° 40' N	176° 30' E	87	1501
1989	11	280	56° 40' N	177° 00' E	653	1502
1989	11	281	56° 40' N	177° 30' E	164	1503
1989	11	295	56° 30' N	174° 00' E	1701	1504
1989	11	296	56° 30' N	174° 30' E	1012	1505
1989	11	297	56° 30' N	175° 00' E	76	1506
1989	11	299	56° 30' N	176° 00' E	273	1507
1989	11	300	56° 30' N	176° 30' E	33	1508
1989	11	301	56° 30' N	177° 00' E	692	1509
1989	11	303	56° 30' N	178° 00' E	1118	1510
1989	11	310	56° 30' N	178° 30' W	105	1511
1989	11	311	56° 30' N	177° 00' W	379	1512
1989	11	316	56° 20' N	174° 00' E	28	1513
1989	11	317	56° 20' N	174° 30' E	189	1514

1989	11	318	56° 20' N	175° 00' E	1414	1515
1989	11	320	56° 20' N	176° 00' E	281	1516
1989	11	321	56° 20' N	176° 30' E	117	1517
1989	11	322	56° 20' N	177° 00' E	886	1518
1989	11	323	56° 20' N	177° 30' E	1292	1519
1989	11	338	56° 10' N	174° 30' E	66	1520
1989	11	341	56° 10' N	176° 00' E	1180	1521
1989	11	342	56° 10' N	176° 30' E	943	1522
1989	11	343	56° 10' N	177° 00' E	537	1523
1989	11	344	56° 10' N	177° 30' E	580	1524
1989	11	354	56° 10' N	177° 30' W	368	1525
1989	11	355	56° 10' N	176° 00' W	313	1526
1989	11	362	56° 00' N	176° 00' E	60	1527
1989	11	363	56° 00' N	176° 30' E	1775	1528
1989	11	383	55° 50' N	176° 00' E	297	1529
1989	12	119	58° 00' N	179° 30' W	9	1530
1989	12	219	57° 10' N	178° 00' E	660	1531
1989	12	240	57° 00' N	178° 00' E	2621	1532
1989	12	242	57° 00' N	179° 00' E	1451	1533
1989	12	261	56° 50' N	178° 00' E	1590	1534
1989	12	262	56° 50' N	178° 30' E	5774	1535
1989	12	263	56° 50' N	179° 00' E	1074	1536
1989	12	265	56° 50' N	180° 00' E	326	1537
1989	12	276	56° 40' N	175° 00' E	160	1538
1989	12	282	56° 40' N	178° 00' E	3333	1539
1989	12	284	56° 40' N	179° 00' E	169	1540
1989	12	295	56° 30' N	174° 00' E	866	1541
1989	12	296	56° 30' N	174° 30' E	271	1542
1989	12	298	56° 30' N	175° 30' E	274	1543
1989	12	301	56° 30' N	177° 00' E	1522	1544
1989	12	303	56° 30' N	178° 00' E	4160	1545
1989	12	304	56° 30' N	178° 30' E	4232	1546
1989	12	306	56° 30' N	179° 30' E	38	1547
1989	12	308	56° 30' N	179° 30' W	2774	1548
1989	12	316	56° 20' N	174° 00' E	388	1549
1989	12	317	56° 20' N	174° 30' E	869	1550
1989	12	320	56° 20' N	176° 00' E	314	1551
1989	12	324	56° 20' N	178° 00' E	71	1552
1989	12	325	56° 20' N	178° 30' E	1019	1553
1989	12	326	56° 20' N	179° 00' E	125	1554
1989	12	341	56° 10' N	176° 00' E	241	1555
1989	12	343	56° 10' N	177° 00' E	210	1556
1989	12	348	56° 10' N	179° 30' E	186	1557
1989	12	366	56° 00' N	178° 00' E	125	1558
1990	1	250	57° 00' N	176° 00' W	34	1559
1990	1	260	56° 50' N	177° 30' E	308	1560
1990	1	261	56° 50' N	178° 00' E	1521	1561
1990	1	270	56° 50' N	177° 30' W	29	1562
1990	1	271	56° 50' N	176° 00' W	36	1563

1990	1	281	56° 40' N	177° 30' E	262	1564
1990	1	282	56° 40' N	178° 00' E	3511	1565
1990	1	283	56° 40' N	178° 30' E	931	1566
1990	1	290	56° 40' N	177° 00' W	101	1567
1990	1	292	56° 40' N	176° 00' W	112	1568
1990	1	302	56° 30' N	177° 30' E	661	1569
1990	1	303	56° 30' N	178° 00' E	2027	1570
1990	1	304	56° 30' N	178° 30' E	424	1571
1990	1	306	56° 30' N	179° 30' E	328	1572
1990	1	307	56° 30' N	180° 00' E	19	1573
1990	1	324	56° 20' N	178° 00' E	176	1574
1990	1	331	56° 20' N	178° 30' W	285	1575
1990	1	332	56° 20' N	177° 00' W	88	1576
1990	1	344	56° 10' N	177° 30' E	293	1577
1990	1	345	56° 10' N	178° 00' E	336	1578
1990	1	346	56° 10' N	178° 30' E	108	1579
1990	1	352	56° 10' N	178° 30' W	88	1580
1990	1	353	56° 10' N	177° 00' W	63	1581
1990	1	354	56° 10' N	177° 30' W	60	1582
1990	1	355	56° 10' N	176° 00' W	172	1583
1990	1	371	56° 00' N	179° 30' W	2	1584
1990	1	372	56° 00' N	178° 00' W	11	1585
1990	1	373	56° 00' N	178° 30' W	23	1586
1990	1	374	56° 00' N	177° 00' W	47	1587
1990	1	375	56° 00' N	177° 30' W	370	1588
1990	1	394	55° 50' N	178° 30' W	244	1589
1990	1	396	55° 50' N	177° 30' W	108	1590
1990	1	397	55° 50' N	176° 00' W	43	1591
1990	1	414	55° 40' N	178° 00' W	3	1592
1990	1	415	55° 40' N	178° 30' W	182	1593
1990	1	417	55° 40' N	177° 30' W	54	1594
1990	1	418	55° 40' N	176° 00' W	49	1595
1990	1	433	55° 30' N	180° 00' E	20	1596
1990	1	434	55° 30' N	179° 30' W	15	1597
1990	2	182	57° 30' N	179° 30' W	1	1598
1990	2	290	56° 40' N	177° 00' W	21	1599
1990	2	310	56° 30' N	178° 30' W	120	1600
1990	2	312	56° 30' N	177° 30' W	660	1601
1990	2	332	56° 20' N	177° 00' W	140	1602
1990	2	352	56° 10' N	178° 30' W	20	1603
1990	2	353	56° 10' N	177° 00' W	143	1604
1990	2	354	56° 10' N	177° 30' W	57	1605
1990	2	374	56° 00' N	177° 00' W	14	1606
1990	2	375	56° 00' N	177° 30' W	34	1607
1990	2	376	56° 00' N	176° 00' W	1	1608
1990	2	395	55° 50' N	177° 00' W	7	1609
1990	2	396	55° 50' N	177° 30' W	3	1610
1990	2	397	55° 50' N	176° 00' W	4	1611
1990	2	416	55° 40' N	177° 00' W	5	1612

1990	2	419	55° 40' N 176° 30' W	21	1613
1990	3	267	56° 50' N 178° 00' W	2	1614
1990	3	333	56° 20' N 177° 30' W	29	1615
1990	3	375	56° 00' N 177° 30' W	8	1616
1990	3	376	56° 00' N 176° 00' W	17	1617
1990	3	377	56° 00' N 176° 30' W	704	1618
1990	3	397	55° 50' N 176° 00' W	135	1619
1990	3	398	55° 50' N 176° 30' W	1153	1620
1990	3	418	55° 40' N 176° 00' W	102	1621
1990	3	419	55° 40' N 176° 30' W	142	1622
1990	3	439	55° 30' N 176° 00' W	42	1623
1990	3	440	55° 30' N 176° 30' W	407	1624
1990	3	441	55° 30' N 175° 00' W	195	1625
1990	4	227	57° 10' N 177° 00' W	964	1626
1990	4	229	57° 10' N 176° 00' W	1085	1627
1990	4	250	57° 00' N 176° 00' W	11563	1628
1990	4	271	56° 50' N 176° 00' W	8303	1629
1990	4	272	56° 50' N 176° 30' W	106	1630
1990	4	292	56° 40' N 176° 00' W	102	1631
1990	4	334	56° 20' N 176° 00' W	1069	1632
1990	4	372	56° 00' N 178° 00' W	174	1633
1990	4	375	56° 00' N 177° 30' W	26	1634
1990	4	377	56° 00' N 176° 30' W	26	1635
1990	4	396	55° 50' N 177° 30' W	93	1636
1990	4	397	55° 50' N 176° 00' W	151	1637
1990	4	414	55° 40' N 178° 00' W	1549	1638
1990	4	416	55° 40' N 177° 00' W	32	1639
1990	4	417	55° 40' N 177° 30' W	250	1640
1990	4	418	55° 40' N 176° 00' W	72	1641
1990	4	419	55° 40' N 176° 30' W	25	1642
1990	4	434	55° 30' N 179° 30' W	431	1643
1990	4	435	55° 30' N 178° 00' W	26	1644
1990	4	436	55° 30' N 178° 30' W	2650	1645
1990	4	437	55° 30' N 177° 00' W	988	1646
1990	4	438	55° 30' N 177° 30' W	624	1647
1990	4	439	55° 30' N 176° 00' W	4205	1648
1990	4	440	55° 30' N 176° 30' W	2481	1649
1990	4	456	55° 20' N 178° 00' W	45	1650
1990	4	457	55° 20' N 178° 30' W	3142	1651
1990	4	458	55° 20' N 177° 00' W	574	1652
1990	4	460	55° 20' N 176° 00' W	772	1653
1990	4	462	55° 20' N 175° 00' W	508	1654
1990	5	12	58° 50' N 179° 30' E	10	1655
1990	5	13	58° 50' N 180° 00' E	26	1656
1990	5	14	58° 50' N 179° 30' W	193	1657
1990	5	15	58° 50' N 178° 00' W	31	1658
1990	5	33	58° 40' N 179° 30' E	34	1659
1990	5	34	58° 40' N 180° 00' E	430	1660
1990	5	35	58° 40' N 179° 30' W	1272	1661

1990	5	36	58° 40' N 178° 00' W	274	1662
1990	5	53	58° 30' N 179° 00' E	80	1663
1990	5	54	58° 30' N 179° 30' E	31	1664
1990	5	57	58° 30' N 178° 00' W	118	1665
1990	5	78	58° 20' N 178° 00' W	56	1666
1990	5	79	58° 20' N 178° 30' W	25	1667
1990	5	96	58° 10' N 179° 30' E	126	1668
1990	5	98	58° 10' N 179° 30' W	16	1669
1990	5	99	58° 10' N 178° 00' W	138	1670
1990	5	100	58° 10' N 178° 30' W	174	1671
1990	5	101	58° 10' N 177° 00' W	19	1672
1990	5	117	58° 00' N 179° 30' E	121	1673
1990	5	118	58° 00' N 180° 00' E	45	1674
1990	5	119	58° 00' N 179° 30' W	45	1675
1990	5	122	58° 00' N 177° 00' W	39	1676
1990	5	158	57° 40' N 179° 00' E	53	1677
1990	5	159	57° 40' N 179° 30' E	150	1678
1990	5	160	57° 40' N 180° 00' E	252	1679
1990	5	165	57° 40' N 177° 30' W	13	1680
1990	5	178	57° 30' N 178° 30' E	48	1681
1990	5	179	57° 30' N 179° 00' E	4	1682
1990	5	180	57° 30' N 179° 30' E	144	1683
1990	5	181	57° 30' N 180° 00' E	149	1684
1990	5	182	57° 30' N 179° 30' W	312	1685
1990	5	183	57° 30' N 178° 00' W	136	1686
1990	5	200	57° 20' N 179° 00' E	15	1687
1990	5	201	57° 20' N 179° 30' E	441	1688
1990	5	202	57° 20' N 180° 00' E	265	1689
1990	5	208	57° 20' N 176° 00' W	16	1690
1990	5	222	57° 10' N 179° 30' E	364	1691
1990	5	239	57° 00' N 177° 30' E	102	1692
1990	5	242	57° 00' N 179° 00' E	24	1693
1990	5	245	57° 00' N 179° 30' W	8	1694
1990	5	250	57° 00' N 176° 00' W	3632	1695
1990	5	280	56° 40' N 177° 00' E	9	1696
1990	5	281	56° 40' N 177° 30' E	470	1697
1990	5	282	56° 40' N 178° 00' E	24	1698
1990	5	308	56° 30' N 179° 30' W	19	1699
1990	5	325	56° 20' N 178° 30' E	10	1700
1990	5	330	56° 20' N 178° 00' W	12	1701
1990	5	335	56° 20' N 176° 30' W	8	1702
1990	5	355	56° 10' N 176° 00' W	10	1703
1990	5	364	56° 00' N 177° 00' E	9	1704
1990	5	370	56° 00' N 180° 00' E	9	1705
1990	5	372	56° 00' N 178° 00' W	17	1706
1990	5	376	56° 00' N 176° 00' W	38	1707
1990	5	406	55° 40' N 177° 00' E	14	1708
1990	5	416	55° 40' N 177° 00' W	351	1709
1990	5	434	55° 30' N 179° 30' W	10	1710

1990	5	435	55° 30' N 178° 00' W	899	1711
1990	5	436	55° 30' N 178° 30' W	20	1712
1990	5	452	55° 20' N 179° 00' E	8	1713
1990	5	454	55° 20' N 180° 00' E	25	1714
1990	5	455	55° 20' N 179° 30' W	348	1715
1990	5	456	55° 20' N 178° 00' W	1666	1716
1990	5	457	55° 20' N 178° 30' W	1230	1717
1990	5	460	55° 20' N 176° 00' W	55	1718
1990	5	475	55° 10' N 180° 00' E	14	1719
1990	5	477	55° 10' N 178° 00' W	4026	1720
1990	5	478	55° 10' N 178° 30' W	2296	1721
1990	6	140	57° 50' N 179° 30' W	54	1722
1990	6	203	57° 20' N 179° 30' W	95	1723
1990	6	207	57° 20' N 177° 30' W	367	1724
1990	6	208	57° 20' N 176° 00' W	281	1725
1990	6	223	57° 10' N 180° 00' E	418	1726
1990	6	228	57° 10' N 177° 30' W	2457	1727
1990	6	229	57° 10' N 176° 00' W	1988	1728
1990	6	243	57° 00' N 179° 30' E	1570	1729
1990	6	244	57° 00' N 180° 00' E	3304	1730
1990	6	245	57° 00' N 179° 30' W	1792	1731
1990	6	246	57° 00' N 178° 00' W	648	1732
1990	6	248	57° 00' N 177° 00' W	372	1733
1990	6	249	57° 00' N 177° 30' W	3035	1734
1990	6	250	57° 00' N 176° 00' W	8028	1735
1990	6	265	56° 50' N 180° 00' E	862	1736
1990	6	266	56° 50' N 179° 30' W	560	1737
1990	6	268	56° 50' N 178° 30' W	1208	1738
1990	6	270	56° 50' N 177° 30' W	2017	1739
1990	6	271	56° 50' N 176° 00' W	5979	1740
1990	6	286	56° 40' N 180° 00' E	155	1741
1990	6	288	56° 40' N 178° 00' W	422	1742
1990	6	289	56° 40' N 178° 30' W	97	1743
1990	6	291	56° 40' N 177° 30' W	85	1744
1990	6	292	56° 40' N 176° 00' W	374	1745
1990	6	306	56° 30' N 179° 30' E	94	1746
1990	6	307	56° 30' N 180° 00' E	184	1747
1990	6	308	56° 30' N 179° 30' W	29	1748
1990	6	309	56° 30' N 178° 00' W	129	1749
1990	6	310	56° 30' N 178° 30' W	158	1750
1990	6	311	56° 30' N 177° 00' W	1106	1751
1990	6	330	56° 20' N 178° 00' W	45	1752
1990	6	332	56° 20' N 177° 00' W	636	1753
1990	6	349	56° 10' N 180° 00' E	188	1754
1990	6	355	56° 10' N 176° 00' W	67	1755
1990	6	370	56° 00' N 180° 00' E	162	1756
1990	6	393	55° 50' N 178° 00' W	145	1757
1990	7	207	57° 20' N 177° 30' W	426	1758
1990	7	208	57° 20' N 176° 00' W	97	1759

1990	7	228	57° 10' N 177° 30' W	713	1760
1990	7	249	57° 00' N 177° 30' W	618	1761
1990	7	250	57° 00' N 176° 00' W	1057	1762
1990	7	269	56° 50' N 177° 00' W	1439	1763
1990	7	271	56° 50' N 176° 00' W	67	1764
1990	7	282	56° 40' N 178° 00' E	299	1765
1990	7	286	56° 40' N 180° 00' E	156	1766
1990	7	289	56° 40' N 178° 30' W	191	1767
1990	7	290	56° 40' N 177° 00' W	211	1768
1990	7	303	56° 30' N 178° 00' E	202	1769
1990	7	304	56° 30' N 178° 30' E	390	1770
1990	7	306	56° 30' N 179° 30' E	36	1771
1990	7	307	56° 30' N 180° 00' E	89	1772
1990	7	311	56° 30' N 177° 00' W	72	1773
1990	7	314	56° 30' N 176° 30' W	78	1774
1990	7	331	56° 20' N 178° 30' W	197	1775
1990	7	332	56° 20' N 177° 00' W	113	1776
1990	7	368	56° 00' N 179° 00' E	577	1777
1990	7	371	56° 00' N 179° 30' W	121	1778
1990	7	372	56° 00' N 178° 00' W	130	1779
1990	7	373	56° 00' N 178° 30' W	418	1780
1990	7	389	55° 50' N 179° 00' E	1377	1781
1990	7	392	55° 50' N 179° 30' W	158	1782
1990	7	394	55° 50' N 178° 30' W	68	1783
1990	7	396	55° 50' N 177° 30' W	152	1784
1990	7	398	55° 50' N 176° 30' W	989	1785
1990	7	409	55° 40' N 178° 30' E	221	1786
1990	7	410	55° 40' N 179° 00' E	264	1787
1990	7	412	55° 40' N 180° 00' E	908	1788
1990	7	413	55° 40' N 179° 30' W	300	1789
1990	7	416	55° 40' N 177° 00' W	67	1790
1990	7	431	55° 30' N 179° 00' E	523	1791
1990	7	432	55° 30' N 179° 30' E	894	1792
1990	7	435	55° 30' N 178° 00' W	122	1793
1990	8	207	57° 20' N 177° 30' W	191	1794
1990	8	208	57° 20' N 176° 00' W	143	1795
1990	8	223	57° 10' N 180° 00' E	202	1796
1990	8	229	57° 10' N 176° 00' W	548	1797
1990	8	230	57° 10' N 176° 30' W	183	1798
1990	8	250	57° 00' N 176° 00' W	1692	1799
1990	8	263	56° 50' N 179° 00' E	654	1800
1990	8	264	56° 50' N 179° 30' E	35	1801
1990	8	266	56° 50' N 179° 30' W	185	1802
1990	8	271	56° 50' N 176° 00' W	467	1803
1990	8	292	56° 40' N 176° 00' W	2002	1804
1990	8	305	56° 30' N 179° 00' E	747	1805
1990	8	306	56° 30' N 179° 30' E	311	1806
1990	8	307	56° 30' N 180° 00' E	350	1807
1990	8	313	56° 30' N 176° 00' W	72	1808



1990	8	326	56° 20' N	179° 00' E	2484	1809
1990	8	327	56° 20' N	179° 30' E	2265	1810
1990	8	344	56° 10' N	177° 30' E	531	1811
1990	8	347	56° 10' N	179° 00' E	111	1812
1990	8	349	56° 10' N	180° 00' E	446	1813
1990	8	350	56° 10' N	179° 30' W	609	1814
1990	8	351	56° 10' N	178° 00' W	1758	1815
1990	8	352	56° 10' N	178° 30' W	299	1816
1990	8	353	56° 10' N	177° 00' W	189	1817
1990	8	356	56° 10' N	176° 30' W	198	1818
1990	8	369	56° 00' N	179° 30' E	495	1819
1990	8	370	56° 00' N	180° 00' E	1167	1820
1990	8	372	56° 00' N	178° 00' W	141	1821
1990	8	386	55° 50' N	177° 30' E	783	1822
1990	8	388	55° 50' N	178° 30' E	299	1823
1990	8	390	55° 50' N	179° 30' E	114	1824
1990	8	392	55° 50' N	179° 30' W	150	1825
1990	8	393	55° 50' N	178° 00' W	998	1826
1990	8	394	55° 50' N	178° 30' W	473	1827
1990	8	396	55° 50' N	177° 30' W	448	1828
1990	8	411	55° 40' N	179° 30' E	762	1829
1990	8	413	55° 40' N	179° 30' W	735	1830
1990	8	414	55° 40' N	178° 00' W	617	1831
1990	8	435	55° 30' N	178° 00' W	390	1832
1990	8	436	55° 30' N	178° 30' W	807	1833
1990	9	30	58° 40' N	178° 00' E	268	1834
1990	9	31	58° 40' N	178° 30' E	3263	1835
1990	9	32	58° 40' N	179° 00' E	3136	1836
1990	9	33	58° 40' N	179° 30' E	947	1837
1990	9	35	58° 40' N	179° 30' W	109	1838
1990	9	36	58° 40' N	178° 00' W	157	1839
1990	9	52	58° 30' N	178° 30' E	91	1840
1990	9	53	58° 30' N	179° 00' E	1820	1841
1990	9	72	58° 20' N	178° 00' E	522	1842
1990	9	94	58° 10' N	178° 30' E	154	1843
1990	9	95	58° 10' N	179° 00' E	142	1844
1990	9	96	58° 10' N	179° 30' E	479	1845
1990	9	115	58° 00' N	178° 30' E	220	1846
1990	9	117	58° 00' N	179° 30' E	311	1847
1990	9	137	57° 50' N	179° 00' E	275	1848
1990	9	158	57° 40' N	179° 00' E	1601	1849
1990	9	159	57° 40' N	179° 30' E	95	1850
1990	9	175	57° 30' N	177° 00' E	119	1851
1990	9	179	57° 30' N	179° 00' E	188	1852
1990	9	180	57° 30' N	179° 30' E	143	1853
1990	9	201	57° 20' N	179° 30' E	115	1854
1990	9	203	57° 20' N	179° 30' W	196	1855
1990	9	306	56° 30' N	179° 30' E	235	1856
1990	9	327	56° 20' N	179° 30' E	1463	1857

1990	9	328	56° 20' N	180° 00' E	198	1858
1990	9	349	56° 10' N	180° 00' E	275	1859
1990	9	393	55° 50' N	178° 00' W	661	1860
1990	10	15	58° 50' N	178° 00' W	573	1861
1990	10	30	58° 40' N	178° 00' E	1717	1862
1990	10	36	58° 40' N	178° 00' W	754	1863
1990	10	51	58° 30' N	178° 00' E	453	1864
1990	10	52	58° 30' N	178° 30' E	281	1865
1990	10	57	58° 30' N	178° 00' W	234	1866
1990	10	69	58° 20' N	176° 30' E	309	1867
1990	10	72	58° 20' N	178° 00' E	184	1868
1990	10	73	58° 20' N	178° 30' E	474	1869
1990	10	75	58° 20' N	179° 30' E	600	1870
1990	10	89	58° 10' N	176° 00' E	745	1871
1990	10	90	58° 10' N	176° 30' E	721	1872
1990	10	93	58° 10' N	178° 00' E	1584	1873
1990	10	94	58° 10' N	178° 30' E	275	1874
1990	10	110	58° 00' N	176° 00' E	1601	1875
1990	10	114	58° 00' N	178° 00' E	114	1876
1990	10	115	58° 00' N	178° 30' E	240	1877
1990	10	132	57° 50' N	176° 30' E	27	1878
1990	10	135	57° 50' N	178° 00' E	196	1879
1990	10	136	57° 50' N	178° 30' E	148	1880
1990	10	137	57° 50' N	179° 00' E	234	1881
1990	10	143	57° 50' N	177° 00' W	407	1882
1990	10	151	57° 40' N	175° 30' E	254	1883
1990	10	153	57° 40' N	176° 30' E	930	1884
1990	10	156	57° 40' N	178° 00' E	534	1885
1990	10	157	57° 40' N	178° 30' E	148	1886
1990	10	172	57° 30' N	175° 30' E	549	1887
1990	10	178	57° 30' N	178° 30' E	14	1888
1990	10	179	57° 30' N	179° 00' E	588	1889
1990	10	193	57° 20' N	175° 30' E	733	1890
1990	10	194	57° 20' N	176° 00' E	312	1891
1990	10	198	57° 20' N	178° 00' E	1567	1892
1990	10	214	57° 10' N	175° 30' E	323	1893
1990	10	222	57° 10' N	179° 30' E	16	1894
1990	10	234	57° 00' N	175° 00' E	310	1895
1990	10	235	57° 00' N	175° 30' E	278	1896
1990	10	236	57° 00' N	176° 00' E	325	1897
1990	10	240	57° 00' N	178° 00' E	92	1898
1990	10	242	57° 00' N	179° 00' E	754	1899
1990	10	243	57° 00' N	179° 30' E	262	1900
1990	10	251	57° 00' N	176° 30' W	387	1901
1990	10	253	56° 50' N	174° 00' E	216	1902
1990	10	257	56° 50' N	176° 00' E	312	1903
1990	10	272	56° 50' N	176° 30' W	2300	1904
1990	10	295	56° 30' N	174° 00' E	19	1905
1990	10	297	56° 30' N	175° 00' E	542	1906

1990	10	298	56° 30' N	175° 30' E	778	1907
1990	10	314	56° 30' N	176° 30' W	440	1908
1990	10	431	55° 30' N	179° 00' E	121	1909
1990	11	29	58° 40' N	177° 30' E	278	1910
1990	11	49	58° 30' N	177° 00' E	405	1911
1990	11	50	58° 30' N	177° 30' E	548	1912
1990	11	51	58° 30' N	178° 00' E	431	1913
1990	11	71	58° 20' N	177° 30' E	494	1914
1990	11	72	58° 20' N	178° 00' E	417	1915
1990	11	77	58° 20' N	179° 30' W	49	1916
1990	11	91	58° 10' N	177° 00' E	439	1917
1990	11	94	58° 10' N	178° 30' E	194	1918
1990	11	117	58° 00' N	179° 30' E	102	1919
1990	11	118	58° 00' N	180° 00' E	107	1920
1990	11	136	57° 50' N	178° 30' E	276	1921
1990	11	137	57° 50' N	179° 00' E	185	1922
1990	11	157	57° 40' N	178° 30' E	924	1923
1990	11	158	57° 40' N	179° 00' E	209	1924
1990	11	179	57° 30' N	179° 00' E	458	1925
1990	11	200	57° 20' N	179° 00' E	2205	1926
1990	11	213	57° 10' N	175° 00' E	16	1927
1990	11	217	57° 10' N	177° 00' E	56	1928
1990	11	220	57° 10' N	178° 30' E	932	1929
1990	11	242	57° 00' N	179° 00' E	54	1930
1990	11	243	57° 00' N	179° 30' E	145	1931
1990	11	251	57° 00' N	176° 30' W	288	1932
1990	11	260	56° 50' N	177° 30' E	401	1933
1990	11	261	56° 50' N	178° 00' E	718	1934
1990	11	269	56° 50' N	177° 00' W	930	1935
1990	11	305	56° 30' N	179° 00' E	152	1936
1990	11	308	56° 30' N	179° 30' W	32	1937
1990	11	316	56° 20' N	174° 00' E	1775	1938
1990	11	317	56° 20' N	174° 30' E	197	1939
1990	11	320	56° 20' N	176° 00' E	46	1940
1990	11	327	56° 20' N	179° 30' E	156	1941
1990	11	341	56° 10' N	176° 00' E	74	1942
1990	11	342	56° 10' N	176° 30' E	9	1943
1990	11	343	56° 10' N	177° 00' E	18	1944
1990	11	363	56° 00' N	176° 30' E	51	1945
1990	11	364	56° 00' N	177° 00' E	13	1946
1990	11	376	56° 00' N	176° 00' W	9	1947
1990	11	391	55° 50' N	180° 00' E	967	1948
1990	11	411	55° 40' N	179° 30' E	79	1949
1990	11	432	55° 30' N	179° 30' E	674	1950
1990	11	441	55° 30' N	175° 00' W	371	1951
1990	12	13	58° 50' N	180° 00' E	811	1952
1990	12	14	58° 50' N	179° 30' W	798	1953
1990	12	15	58° 50' N	178° 00' W	564	1954
1990	12	30	58° 40' N	178° 00' E	110	1955

1990	12	31	58° 40' N	178° 30' E	105	1956
1990	12	32	58° 40' N	179° 00' E	118	1957
1990	12	33	58° 40' N	179° 30' E	1083	1958
1990	12	34	58° 40' N	180° 00' E	1541	1959
1990	12	35	58° 40' N	179° 30' W	548	1960
1990	12	36	58° 40' N	178° 00' W	518	1961
1990	12	54	58° 30' N	179° 30' E	233	1962
1990	12	55	58° 30' N	180° 00' E	4	1963
1990	12	57	58° 30' N	178° 00' W	128	1964
1990	12	75	58° 20' N	179° 30' E	184	1965
1990	12	95	58° 10' N	179° 00' E	82	1966
1990	12	97	58° 10' N	180° 00' E	193	1967
1990	12	137	57° 50' N	179° 00' E	5	1968
1990	12	327	56° 20' N	179° 30' E	85	1969
1991	1	11	58° 50' N	179° 00' E	6	1970
1991	1	12	58° 50' N	179° 30' E	11	1971
1991	1	13	58° 50' N	180° 00' E	743	1972
1991	1	14	58° 50' N	179° 30' W	43	1973
1991	1	15	58° 50' N	178° 00' W	53	1974
1991	1	31	58° 40' N	178° 30' E	22	1975
1991	1	33	58° 40' N	179° 30' E	2	1976
1991	1	34	58° 40' N	180° 00' E	31	1977
1991	1	35	58° 40' N	179° 30' W	3	1978
1991	1	36	58° 40' N	178° 00' W	32	1979
1991	1	55	58° 30' N	180° 00' E	103	1980
1991	1	79	58° 20' N	178° 30' W	439	1981
1991	1	260	56° 50' N	177° 30' E	5	1982
1991	1	435	55° 30' N	178° 00' W	4	1983
1991	1	437	55° 30' N	177° 00' W	32	1984
1991	2	184	57° 30' N	178° 30' W	26	1985
1991	3	164	57° 40' N	177° 00' W	7	1986
1991	3	437	55° 30' N	177° 00' W	10	1987
1991	3	438	55° 30' N	177° 30' W	20	1988
1991	3	439	55° 30' N	176° 00' W	121	1989
1991	4	187	57° 30' N	176° 00' W	683	1990
1991	4	208	57° 20' N	176° 00' W	3630	1991
1991	4	229	57° 10' N	176° 00' W	1542	1992
1991	4	271	56° 50' N	176° 00' W	374	1993
1991	4	292	56° 40' N	176° 00' W	1129	1994
1991	4	293	56° 40' N	176° 30' W	1735	1995
1991	4	313	56° 30' N	176° 00' W	810	1996
1991	4	314	56° 30' N	176° 30' W	621	1997
1991	4	356	56° 10' N	176° 30' W	1190	1998
1991	4	377	56° 00' N	176° 30' W	2505	1999
1991	4	398	55° 50' N	176° 30' W	2432	2000
1991	4	418	55° 40' N	176° 00' W	82	2001
1991	4	419	55° 40' N	176° 30' W	204	2002
1991	4	420	55° 40' N	175° 00' W	379	2003
1991	4	433	55° 30' N	180° 00' E	166	2004

1991	4	439	55° 30' N 176° 00' W	80	2005
1991	4	440	55° 30' N 176° 30' W	496	2006
1991	5	35	58° 40' N 179° 30' W	1074	2007
1991	5	36	58° 40' N 178° 00' W	1672	2008
1991	5	57	58° 30' N 178° 00' W	673	2009
1991	5	76	58° 20' N 180° 00' E	386	2010
1991	5	163	57° 40' N 178° 30' W	727	2011
1991	5	229	57° 10' N 176° 00' W	653	2012
1991	5	250	57° 00' N 176° 00' W	2437	2013
1991	5	271	56° 50' N 176° 00' W	68	2014
1991	5	272	56° 50' N 176° 30' W	162	2015
1991	5	312	56° 30' N 177° 30' W	453	2016
1991	5	356	56° 10' N 176° 30' W	357	2017
1991	5	386	55° 50' N 177° 30' E	242	2018
1991	5	398	55° 50' N 176° 30' W	337	2019
1991	5	416	55° 40' N 177° 00' W	268	2020
1991	5	417	55° 40' N 177° 30' W	207	2021
1991	5	437	55° 30' N 177° 00' W	39	2022
1991	6	15	58° 50' N 178° 00' W	101	2023
1991	6	36	58° 40' N 178° 00' W	169	2024
1991	6	78	58° 20' N 178° 00' W	20	2025
1991	6	99	58° 10' N 178° 00' W	254	2026
1991	6	100	58° 10' N 178° 30' W	200	2027
1991	6	121	58° 00' N 178° 30' W	114	2028
1991	6	123	58° 00' N 177° 30' W	392	2029
1991	6	162	57° 40' N 178° 00' W	311	2030
1991	6	179	57° 30' N 179° 00' E	730	2031
1991	6	180	57° 30' N 179° 30' E	789	2032
1991	6	186	57° 30' N 177° 30' W	600	2033
1991	6	187	57° 30' N 176° 00' W	187	2034
1991	6	206	57° 20' N 177° 00' W	287	2035
1991	6	207	57° 20' N 177° 30' W	182	2036
1991	6	208	57° 20' N 176° 00' W	318	2037
1991	6	217	57° 10' N 177° 00' E	57	2038
1991	6	220	57° 10' N 178° 30' E	373	2039
1991	6	221	57° 10' N 179° 00' E	435	2040
1991	6	228	57° 10' N 177° 30' W	190	2041
1991	6	229	57° 10' N 176° 00' W	347	2042
1991	6	248	57° 00' N 177° 00' W	797	2043
1991	6	250	57° 00' N 176° 00' W	536	2044
1991	6	258	56° 50' N 176° 30' E	659	2045
1991	6	271	56° 50' N 176° 00' W	315	2046
1991	6	290	56° 40' N 177° 00' W	128	2047
1991	6	310	56° 30' N 178° 30' W	169	2048
1991	6	311	56° 30' N 177° 00' W	336	2049
1991	6	313	56° 30' N 176° 00' W	141	2050
1991	6	341	56° 10' N 176° 00' E	515	2051
1991	6	363	56° 00' N 176° 30' E	378	2052
1991	6	415	55° 40' N 178° 30' W	227	2053

1991	7	100	58° 10' N 178° 30' W	217	2054
1991	7	122	58° 00' N 177° 00' W	455	2055
1991	7	143	57° 50' N 177° 00' W	490	2056
1991	7	164	57° 40' N 177° 00' W	647	2057
1991	7	165	57° 40' N 177° 30' W	68	2058
1991	7	206	57° 20' N 177° 00' W	1221	2059
1991	7	208	57° 20' N 176° 00' W	174	2060
1991	7	247	57° 00' N 178° 30' W	530	2061
1991	7	309	56° 30' N 178° 00' W	378	2062
1991	7	353	56° 10' N 177° 00' W	102	2063
1991	7	354	56° 10' N 177° 30' W	266	2064
1991	7	395	55° 50' N 177° 00' W	624	2065
1991	7	416	55° 40' N 177° 00' W	181	2066
1991	7	417	55° 40' N 177° 30' W	3379	2067
1991	7	419	55° 40' N 176° 30' W	99	2068
1991	7	438	55° 30' N 177° 30' W	461	2069
1991	7	439	55° 30' N 176° 00' W	912	2070
1991	7	440	55° 30' N 176° 30' W	1047	2071
1991	8	121	58° 00' N 178° 30' W	146	2072
1991	8	122	58° 00' N 177° 00' W	90	2073
1991	8	143	57° 50' N 177° 00' W	266	2074
1991	8	144	57° 50' N 177° 30' W	1131	2075
1991	8	164	57° 40' N 177° 00' W	487	2076
1991	8	165	57° 40' N 177° 30' W	735	2077
1991	8	187	57° 30' N 176° 00' W	285	2078
1991	8	223	57° 10' N 180° 00' E	18	2079
1991	8	290	56° 40' N 177° 00' W	557	2080
1991	9	112	58° 00' N 177° 00' E	100	2081
1991	9	239	57° 00' N 177° 30' E	6	2082
1991	11	225	57° 10' N 178° 00' W	7	2083

**Tab 8**

**Inventory of Data  
on Biological Characteristics  
of Pollock**

Table A. List of biological and fishing data collected during catches of pollock in Donut hole area of the central Bering Sea during 1985-1991

Year	Months	Hauls data (no.of hauls)	Length distribution (no.of fish)	Biological data (no.of fish)	Age (no.of fish)	Meristic data (no.of fish)
1985	I, II, XII	118	21720	916	891	93
1986	I - V, XI - XII	395	56120	3260	2396	240
1987	I - III	304	17897	1365	1364	219
1988	I - IV, IX - XII	406	58201	4676	2613	989
1989	I - IV, IX - XI	247	45341	2989	2271	667
1990	III - XII	338	62710	4235	4234	608
1991	I, V- VIII	115	39389	2299	2299	320
<b>Total</b>		<b>1923</b>	<b>301378</b>	<b>19740</b>	<b>16068</b>	<b>3136</b>

- 1 Jan.25,1985 - Feb.11,1985, m/t Regulus
- 2 Nov.29,1985 - Dec.31,1985, m/t Marlin
  
- 3 Jan.01,1986 - May 03,1986, m/t Marlin
- 4 Nov. 03,1986 - Dec. 28,1986, m/t Sirius
  
- 5 Jan. 02,1987 - March 10,1987, m/t Sirius
- 6 Nov. 11,1987 - Dec. 31, 1987, m/t Bogar
  
- 7 Jan. 01,1988 - March 09, 1988, m/t Bogar
- 8 March 18, 1988 - Apr. 01, 1988, m/t Parma
- 9 Sep. 13, 1988 - Nov. 21, 1988, m/t Marlin
- 10 Oct. 29, 1988 - Dec. 30, 1988, m/t Sirius
  
- 11 Jan..01, 1989 - Feb. 08, 1989, m/t Sirius
- 12 March 27, 1989 - Apr. 22, 1989, m/t Aquila
- 13 Sept. 24, 1989 -Nov. 29, 1989, m/t Tunek
  
- 14 March 24, 1990 - June 17, 1990, m/t Sirius
- 15 July 17, 1990 - Oct. 19, 1990, m/t Arcturus
- 16 Nov. 12, 1990 - Dec. 29, 1990, m/t Sirius
  
- 17 Jan. 02, 1991 - Jan. 20, 1991, m/t Sirius
- 18 May 08, 1991 - Aug. 15, 1991, m/t Sirius



Table B. Length distribution (F.L. cm.) of pollock in Polish catches in 1985

Males				
F.L.	Jan.	Feb.	Dec.	Total
36	1	0		1
37	0	0		0
38	6	2	1	9
39	25	13	12	50
40	45	34	76	155
41	117	94	222	433
42	225	220	563	1008
43	276	304	776	1356
44	353	399	998	1750
45	345	471	1016	1832
46	354	459	764	1577
47	307	358	529	1194
48	203	230	308	741
49	150	151	180	481
50	66	63	83	212
51	34	27	38	99
52	12	7	10	29
53	2	4	4	10
54	0	1	1	2
55	0	1	1	2
56				
57				
58				
59				
60				
Total m.	2521	2838	5582	10941

## Females

F.L.	Jan.	Feb.	Dec.	Total
36				
37		1	3	4
38	2		15	17
39	5	5	46	56
40	19	21	138	178
41	52	55	330	437
42	125	122	590	837
43	197	180	832	1209
44	310	328	847	1485
45	354	405	640	1399
46	439	501	448	1388
47	409	525	296	1230
48	308	376	183	867
49	265	317	108	690
50	175	189	51	415
51	103	119	30	252
52	60	63	13	136
53	44	34	8	86
54	28	20	3	51
55	10	12	1	23
56	4	7	1	12
57	2	3	1	6
58	1			1
59				
60				
61				
62				
63				
64				
65				
Total f.	2912	3283	4584	10779

Total m.	2521	2838	5582	10941
Total	5433	6121	10166	21720

Table C. Biological data of pollock from Polish catches in Donut hole in 1985 (example)

Year	Month	Day	No.	Position	Depth (m)	T.L. (cm)	Weight (g)	Sex	Matur.	Stom.	Age
1985	2	9	1	55.51N-178.14W	270	41	470	1	4	0	13
	2	9	2	55.51N-178.14W	270	41	500	1	5	0	8
	2	9	3	55.51N-178.14W	270	42	450	1	3	0	8
	2	9	4	55.51N-178.14W	270	42	470	1	5	0	7
	2	9	5	55.51N-178.14W	270	42	520	1	4	0	7
	2	9	6	55.51N-178.14W	270	43	490	1	5	0	7
	2	9	7	55.51N-178.14W	270	43	500	1	4	0	8
	2	9	8	55.51N-178.14W	270	43	540	1	5	0	9
	2	9	9	55.51N-178.14W	270	43	550	1	4	0	8
	2	9	10	55.51N-178.14W	270	43	570	1	5	0	9
	2	9	11	55.51N-178.14W	270	44	520	1	4	0	9
	2	9	12	55.51N-178.14W	270	44	530	1	5	0	9
	2	9	13	55.51N-178.14W	270	44	530	1	4	0	8
	2	9	14	55.51N-178.14W	270	44	530	1	4	0	9
	2	9	15	55.51N-178.14W	270	44	540	1	5	0	8
	2	9	16	55.51N-178.14W	270	44	550	1	4	0	13
	2	9	17	55.51N-178.14W	270	44	560	1	4	0	9
	2	9	18	55.51N-178.14W	270	44	570	1	4	0	11
	2	9	19	55.51N-178.14W	270	45	540	1	5	0	8
	2	9	20	55.51N-178.14W	270	45	550	1	5	0	13
	2	9	21	55.51N-178.14W	270	45	560	1	5	0	11
	2	9	22	55.51N-178.14W	270	45	560	1	4	0	8
	2	9	23	55.51N-178.14W	270	45	570	1	4	0	12
	2	9	24	55.51N-178.14W	270	45	570	1	5	0	12
	2	9	25	55.51N-178.14W	270	45	570	1	5	0	12
	2	9	26	55.51N-178.14W	270	45	590	1	5	0	12
	2	9	27	55.51N-178.14W	270	45	630	1	5	0	13
	2	9	28	55.51N-178.14W	270	46	560	1	5	0	13
	2	9	29	55.51N-178.14W	270	46	570	1	5	0	13
	2	9	30	55.51N-178.14W	270	46	580	1	5	0	11
	2	9	31	55.51N-178.14W	270	46	590	1	5	0	9
	2	9	32	55.51N-178.14W	270	46	600	1	5	0	12
	2	9	33	55.51N-178.14W	270	46	620	1	5	0	11
	2	9	34	55.51N-178.14W	270	46	630	1	5	0	14
	2	9	35	55.51N-178.14W	270	46	630	1	5	0	13
	2	9	36	55.51N-178.14W	270	46	660	1	5	0	13
	2	9	37	55.51N-178.14W	270	47	630	1	5	0	12
	2	9	38	55.51N-178.14W	270	47	630	1	4	0	13
	2	9	39	55.51N-178.14W	270	47	640	1	4	0	12
	2	9	40	55.51N-178.14W	270	47	640	1	4	1	13
	2	9	41	55.51N-178.14W	270	47	650	1	5	0	13
	2	9	42	55.51N-178.14W	270	47	720	1	4	0	13
	2	9	43	55.51N-178.14W	270	47	720	1	5	0	13
	2	9	44	55.51N-178.14W	270	47	740	1	5	0	13
	2	9	45	55.51N-178.14W	270	48	610	1	5	0	14
	2	9	46	55.51N-178.14W	270	48	680	1	5	0	13
	2	9	47	55.51N-178.14W	270	48	680	1	5	0	19
	2	9	48	55.51N-178.14W	270	48	700	1	5	0	19
	2	9	49	55.51N-178.14W	270	48	700	1	5	0	19
	2	9	50	55.51N-178.14W	270	48	700	1	5	0	19
	2	9	51	55.51N-178.14W	270	48	720	1	5	0	13
	2	9	52	55.51N-178.14W	270	48	720	1	5	0	13
	2	9	53	55.51N-178.14W	270	48	730	1	4	0	13
	2	9	54	55.51N-178.14W	270	48	750	1	4	0	12
	2	9	55	55.51N-178.14W	270	48	760	1	5	0	20
	2	9	56	55.51N-178.14W	270	49	700	1	5	0	12
	2	9	57	55.51N-178.14W	270	49	730	1	5	0	12
	2	9	58	55.51N-178.14W	270	49	730	1	5	0	13
	2	9	59	55.51N-178.14W	270	49	770	1	5	0	10
	2	9	60	55.51N-178.14W	270	50	700	1	5	0	13
	2	9	61	55.51N-178.14W	270	50	730	1	5	0	13
	2	9	62	55.51N-178.14W	270	50	740	1	5	0	21
	2	9	63	55.51N-178.14W	270	50	800	1	5	0	12
	2	9	64	55.51N-178.14W	270	50	800	1	5	0	17
	2	9	65	55.51N-178.14W	270	51	720	1	5	0	20
	2	9	66	55.51N-178.14W	270	51	780	1	5	0	13
	2	9	67	55.51N-178.14W	270	51	800	1	5	0	16
	2	9	68	55.51N-178.14W	270	52	770	1	5	0	16
	2	9	69	55.51N-178.14W	270	52	790	1	5	0	20
	2	9	70	55.51N-178.14W	270	52	830	1	5	0	23
	2	9	71	55.51N-178.14W	270	53	800	1	5	0	20
	2	9	72	55.51N-178.14W	270	53	990	1	5	0	12

Table D. Meristic and morphometric data of pollock from Polish catches in Donut hole in 1985  
(example)

Date	Position	Depth	No.	TL	FL	Weight	Sex	Mat.	Stom.	SL	HDL	DI	DII	DIII	P	AI	All	G.R.	VER.	Age	L.OT.	H.OT.	W.OT.	
28.01.85	55.42N-178.03W	240	1	55.5	54.1	1180	2	4	0	51.5	13	12	18	19	19	22	19	37	50	19	21.06	8.6	6.65	
			2	52.3	51.0	880	1	5	0	47	11.5	13	16	19	19	20	19	38	51	13	18.97	8.05	4.36	
			3	51	49.7	860	2	4	0	46.5	11	12	15	20	17	20	20	35	51	13	19.65	8.1	4.35	
			4	45.7	44.6	690	1	5	0	41.5	9.8	12	17	18	19	20	20	40	51	7	18.95	6.77	2.84	
			5	49.2	48.0	760	2	5	0	45	10.5	12	17	19	18	21	19	35	51	8	16.01	7.37	3.12	
			6	43.2	42.2	520	1	5	0	39	9.5	14	16	20	18	20	20	35	49	7	16.22	7.08	2.96	
			7	46.4	45.3	610	2	5	0	42	10.1	13	14	19	18	19	21	36	52	9	17.52	7.46	3.09	
			8	50.2	49.0	750	2	4	0	46	10.5	13	17	18	17	20	20	35	50	12	19.65	8.03	4.34	
			9	50	48.8	790	2	4	0	46.1	11.6	14	12	19	18	19	18	36	50	13	17.96	7.38	3.97	
			10	49.5	48.3	720	2	4	1	44	10.5	13	15	19	17	20	19	34	51	12	19.11	8.39	5.07	
			11	45.6	44.5	630	1	5	0	42.1	10.5	13	18	19	17	20	20	35	51	7	17.14	7.64	3.13	
			12	48.6	47.4	760	2	4	1	44	10.5	13	16	20	18	20	19	36	51	12				
			13	47.3	46.2	700	2	5	0	42.5	10	13	18	19	18	21	19	38	51	7	18.21	7.4	3.04	
			14	43	42.0	560	1	5	0	39	10	12	16	18	17	21	19	33	50	7	17.3	6.98	2.56	
			15	50	48.8	900	2	4	0	45.5	10.6	12	19	18	18	18	20	38	50	9				
			16	48.4	47.2	700	2	4	0	44	10.5	14	15	19	19	19	20	39	52	12	17.61	7.88	4	
			17	48.5	47.3	680	1	5	0	43.5	10.5	13	18	19	17	21	21	37	50	12	17.56	7.84	3.51	
			18	53	51.7	790	1	5	0	48	11	13	18	21	17	23	23	38	51	13	20.87	7.57	4.44	
			19	51	49.7	790	2	4	1	46.5	11	13	17	20	18	19	18	37	51	14	20.42	8.3	5.53	
			20	42	41.0	470	2	3	0	38	9.5	14	18	19	18	23	21	38	51	7	16.29	7.07	2.67	
01.02.85	55.39N-178.34W	225	21	53	51.7	1200	2	4	1	47.5	11	13	19	20	19	23	22	35	51	16	19.34	8.4	4.82	
			22	52.8	51.5	1050	2	4	0	48	11	12	15	18	18	19	20	33	49	15	20.23	8.53	5.28	
			23	45.9	44.8	560	1	5	0	41.3	10	13	17	19	18	23	20	36	50	12	17.25	7.77	3.9	
			24	49	47.8	760	2	4	2	44.5	11	14	16	20	17	19	19	36	50	18	19.19	7.93	5.96	
			25	52.3	51.0	760	1	4	1	48	11.5	13	18	19	18	21	19	38	50	21	21.1	8.59	5.86	
			26	52.5	51.2	960	2	4	0	48	11	13	15	21	18	20	21	33	51	12	17.85	8.05	3.96	
			27	44.2	43.2	540	1	5	0	40	9.5	14	18	16	20	21	19	38	50	8	17.73	7.23	3.21	
			28	48.6	47.4	750	1	5	0	43.5	10.5	14	16	21	19	21	23	35	49	12	17.82	7.5	3.41	
			29	47	45.9	650	2	4	0	41.2	10	13	15	21	18	20	19	37	49	12	17.53	7.39	3.63	
			30	46.7	45.6	610	1	5	0	40.3	10.5	12	17	20	18	21	20	37	51	7	16.45	7.6	3.16	
05.02.85	55.46N-178.25W	225	31	57.5	56.0	1100	2	4	1	52.5	13.5	12	15	21	18	19	21	38	50	20	21.32	9.21	7.79	
			32	54.5	53.1	940	1	5	0	50	11.5	13	13	18	18	20	20	35	49	11	19.2	8	4.32	
			33	56.9	55.5	1050	2	4	1	52	12	14	15	20	17	20	19	37	50	19	20.59	8.71	6.06	
			34	54	52.6	1110	2	5	0	48.8	11.5	12		21	18	20	21	33	49	13	18.41	7.78	4.63	
			35	42.8	41.8	500	1	4	0	38.5	9.2	13	16	20	18	22	20	34	48	8	15.36	7.09	2.67	

T.L. - Total length (cm)  
 F.L. - Fork length (cm)  
 Weight - Weight of fish (g)  
 Mat. - Gonads maturity (Maier scale)  
 Stom. - Fullness of stomach  
 S.L. - Standard length (cm)  
 HDL - Head length (cm)

DI - No. of rays in 1st. dorsal fin  
 DII - No. of rays in 2nd. dorsal fin  
 DIII - No. of rays in 3th. dorsal fin  
 P - No. of rays in pectoral fin  
 AI - No. of rays in 1st. anal fin  
 All - No. of rays in 2nd. anal fin  
 G.R. - No. of gill rakers on the 1st gill arch  
 VER. - No. of vertebrae (including urostyle)

Age  
 L.OT. - Otolith length (mm)  
 H.OT. - Otolith height (mm)  
 W.OT. - Weight of otolith (g)

Table E. Fishing data of the vessels covered by scientists and technicians from SFI participated in the cruises in 1985.  
(example)

Vessel name/type	No.	Date	Haul no.	Position		Time (min.)	Depth haul from-to (m)	Catch (tons)	Temperature °C		
				Lat. N	Long				air	water	at depth
m/t Regulus B-414	1	25.01.85	95	55 32	177 42W	175	200-205	10.1	5	1.5	
	2	25.01.85	96	55 44	177 55W	270	250-260	6	3	2	
	3	26.01.85	97	55 44	177 58W	260	220-250	12	3	2	
	4	26.01.85	98	55 43	177 52W	200	240-270	8	3	2	
	5	27.01.85	99	55 46	177 48W	185	240-290	22	4	2.2	
	6	28.01.85	100	55 42	178 03W	745	250	30	5	2	
	7	28.01.85	101	55 48	178 16W	195	260	20	4	2.1	
	8	28.01.85	102	55 46	177 53W	455	260-280	36.6	4	2.2	
	9	29.01.85	103	55 46	177 51W	220	240-290	41	5	2.1	
	10	29.01.85	104	55 47	178 29W	140	240-290	35.9	3	2	
	11	30.01.85	105	55 48	178 46W	450	160-280	25	4	2.1	
	12	30.01.85	106	55 47	178 26W	155	210	25	2	1.5	
	13	30.01.85	107	55 47	178 41W	310	220-240	24.4	3	2	
	14	31.01.85	108	55 44	178 15W	170	220-240	25	3	2	
	15	31.01.85	109	55 44	178 21W	220	220-240	25	5	1.8	
	16	31.01.85	110	55 44	178 07W	150	220-240	12	5	1.5	
	17	31.01.85	111	55 43	178 08W	185	220-240	12	2	1.8	
	18	01.02.85	112	55 43	178 02W	180	220-240	10.5	4		
	19	01.02.85	113	55 39	178 34W	245	220-240	12	4	2	
	20	02.02.85	114	55 36	178 47W	150	240-280	15.3	3	2	
	21	02.02.85	115	55 38	178 36W	180	260-300	17.3	1	1.8	
	22	03.02.85	116	55 38	179 34W	430	230-240	15	3		
	23	03.02.85	117	55 41	178 21W	205	230-240	20	5	1.9	
	24	03.02.85	118	55 44	179 07W	140	230-240	20	4	1.9	
	25	03.02.85	119	55 45	178 23W	255	230-240	13.5	1		
	26	04.02.85	120	55 46	178 19W	325	250-300	17	1		
	27	04.02.85	121	55 54	178 05W	320	280-300	13	8		
	28	04.02.85	122	55 46	177 28W	235	280-300	30	3		
	29	05.04.85	123	55 47	178 05W	445	230-260	26.3	6		
	30	05.04.85	124	55 46	178 24W	115	230-260	34.6	5		
	31	05.04.85	125	55 46	178 31W	290	230-260	35.4	2		
	32	06.02.85	126	55 44	178 10W	230	260-280	14.3	6		
	33	06.02.85	127	55 44	178 38W	265	300-310	20	5		
	34	06.02.85	128	55 43	178 02W	180	300-310	22	6		
	35	06.02.85	129	55 40	177 50W	210	300-315	18	5		
	36	07.02.85	130	55 36	178 10W	525	250-270	12.9	3		
	37	07.02.85	131	55 47	177 59W	140	250-270	20	5		
	38	07.02.85	132	55 48	177 43W	325	250-270	20	4		
	39	08.02.85	133	55 51	178 12W	240	270-290	23	7		
	40	08.02.85	134	55 51	178 10W	220	320-340	30	6		
	41	09.02.85	135	55 51	178 14W	265	260-280	21	5		
	42	09.02.85	136	55 50	178 16W	120	290-300	20.3	6		
	43	09.02.85	137	55 51	178 19W	180	280-290	30.1	3		
	44	10.02.85	138	55 51	178 17W	370	280-260	27.2	8		
	45	10.02.85	139	55 52	178 11W	290	340-360	20.5	1		
	46	11.02.85	140	55 48	178 28W	335	250-260	3	4		
m/t Marlin B-417	47	29.11.85	1	55 10	146 49W	25	120-430	0	6		
	48	06.12.85	2	55 42	177 51W	75	200	0	4	4	
	49	06.12.85	3	55 51	177 52W	145	210-190	15.8	3	4	
	50	07.12.85	4	55 54	178 23W	255	145-160	20	3	4	
	51	08.12.85	5	55 55	177 19W	175	160-165	16	3	4	
	52	08.12.85	6	55 47	177 55W	270	195-170	18	4	4	
	53	08.12.85	7	55 58	178 07W	165	160-180	8	4	2	
	54	08.12.85	8	55 57	178 14W	50	210	10.2	3	2	
	55	09.12.85	9	56 05	178 12W	240	180-150	20	4	3	
	56	09.12.85	10	55 42	178 25W	265	170-185	25	4	3	
	57	09.12.85	11	56 02	177 37W	150	160-210	24.2	4	3	
	58	10.12.85	12	55 55	177 47W	240	220-210	20	3	3	
	59	10.12.85	13	56 00	177 24W	260	260-200	25	4	3	
	60	10.12.85	14	56 01	177 44W	220	210	21.4	4	3	
	61	11.12.85	15	56 11	178 02W	250	225-160	21	4	3	
	62	11.12.85	16	56 10	178 45W	210	195-150	23	2	3	
	63	11.12.85	17	56 11	178 50W	90	150-170	21.9	3	3	
	64	12.12.85	18	56 20	179 16W	180	200-180	20	3	4	
	65	12.12.85	19	56 12	179 16W	165	160-155	22.3	3	4	
	66	12.12.85	20	56 25	179 32W	205	160-150	23	3	4	
	67	12.12.85	21	56 17	179 13W	95	190-195	25	3	4	
	68	13.12.85	22	56 27	179 21W	165	205-210	17	3	4	
	69	13.12.85	23	56 09	178 46W	285	150-170	18	3	4	
	70	14.12.85	24	56 02	179 07W	200	240-180	30	4	2	
	71	14.12.85	25	56 04	178 13W	240	200-210	32	3	3	