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**Fishermen's Guide to Catch Per Unit
Effort and Bycatch Data From the
National Marine Fisheries Service
Observer Program**

**Bering Sea/Aleutian Island
Miscellaneous Species Trawl Fishery**

April 1991

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**Fishermen's Guide to Catch Per Unit Effort and
Bycatch Data From the National Marine Fisheries
Service Observer Program**

**Bering Sea/Aleutian Island
Miscellaneous Species Trawl Fishery**

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ABSTRACT

This report on the Bering Sea/Aleutian Islands miscellaneous species trawl fishery is one of a six part series of reports summarizing catch per unit effort (CPUE) and bycatch data extracted from the National Marine Fisheries Service Observer Program North Pacific (NORPAC) database. Other reports cover the other flatfish, yellowfin sole, pollock (bottom), pollock (midwater), and Pacific cod fisheries. The overall goal of this project is to help individual skippers and vessel owners maintain their bycatch rates for prohibited species (halibut, herring, red king crab, and bairdi Tanner crab) within guidelines established by the North Pacific Fishery Management Council. Data from the period 1981-1989 are summarized by month, year, and geographic location (one-half-by-one-degree latitude/longitude blocks). Five 12-month series of charts are presented, each of which shows the Bering Sea/Aleutian Islands region divided into one-half-by-one degree latitude/longitude blocks on which bar graphs illustrating average CPUEs or bycatch rates are superimposed. These chart series provide a visual overview of the data through time and space. Other sections list the actual numerical data associated with each bar graph and provide tables summarizing the data by month and year. Tables listing the Month/Block/Year records with the highest CPUEs and bycatch rates also are provided.

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Introduction

In December 1990 the North Pacific Fishery Management Council (NPFMC) adopted a Bycatch Incentive Program to reduce the bycatch of Pacific halibut (*Hippoglossus stenolepis*), Pacific herring (*Clupea harengus pallasi*), red king crab (*Paralithodes camtschatica*), and bairdi Tanner crab (*Chionoecetes bairdi*) during the 1991 season. Under this program, bycatch rate "standards will be published at least twice annually by National Marine Fisheries Service, and more often as warranted by fleet performance data. Vessels whose bycatch rates exceed the [NMFS] standards will be subject to prosecution and civil penalties, most likely after the season".¹

The National Marine Fisheries Service Observer Program has been collecting catch and bycatch data from foreign, joint venture, and domestic groundfish fisheries for many years. Berger (1988) summarized bycatch data from the joint venture groundfish fishery in the Bering Sea and Aleutian Islands (BSAI) area for the period 1986-1988 by target fishery, quarter of the year, and management area.² Current management areas in the BSAI area are shown in Figure 1. In November 1990 industry representatives expressed a desire for a more comprehensive summary of the data that would: (1) cover more years; (2) give monthly rather than quarterly rates; (3) give rates in one-half-by-one degree latitude/longitude blocks rather than by management area; and (4) present the data in a more user-friendly manner. This report summarizes Observer Program data on the BSAI miscellaneous species trawl fishery and is one of a six part series of reports designed to satisfy industry's request. Other reports cover the following fisheries: other flatfish (including rock sole, *Lepidopsetta bilineata*), yellowfin sole (*Limanda aspera*), walleye pollock (*Theragra chalcogramma*) (bottom), walleye pollock (midwater), and Pacific cod (*Gadus macrocephalus*). The overall goal of this project is to help individual skippers and vessel owners maintain their bycatch rates of prohibited species within current or future NPFMC guidelines.

¹ North Pacific Fishery Management Council Newsletter dated December 13, 1990.

² Berger, J. D. 1988. By-catch rates in the Bering Sea and Aleutian Islands Joint Venture Groundfish Fishery, 1986-88. U.S. Dep. Commer., NOAA Technical Memorandum NMFS F/NWC-155, 137 p.

This report consists of eight sections. Section I describes the methods used to prepare the tables and charts. Section II provides 15 tables giving a broad overview of the data. Sections III through VII each present a 12-month series of charts of the BSAI area divided into one-half-by-one degree latitude/longitude blocks on which bar graphs illustrating average annual catches per unit effort (CPUEs) (Section III) or bycatch rates (Sections IV through VII) for the period 1981-1989 are superimposed. Section VIII consists of 12 data tables (one for each month) listing the numerical data associated with each bar graph.

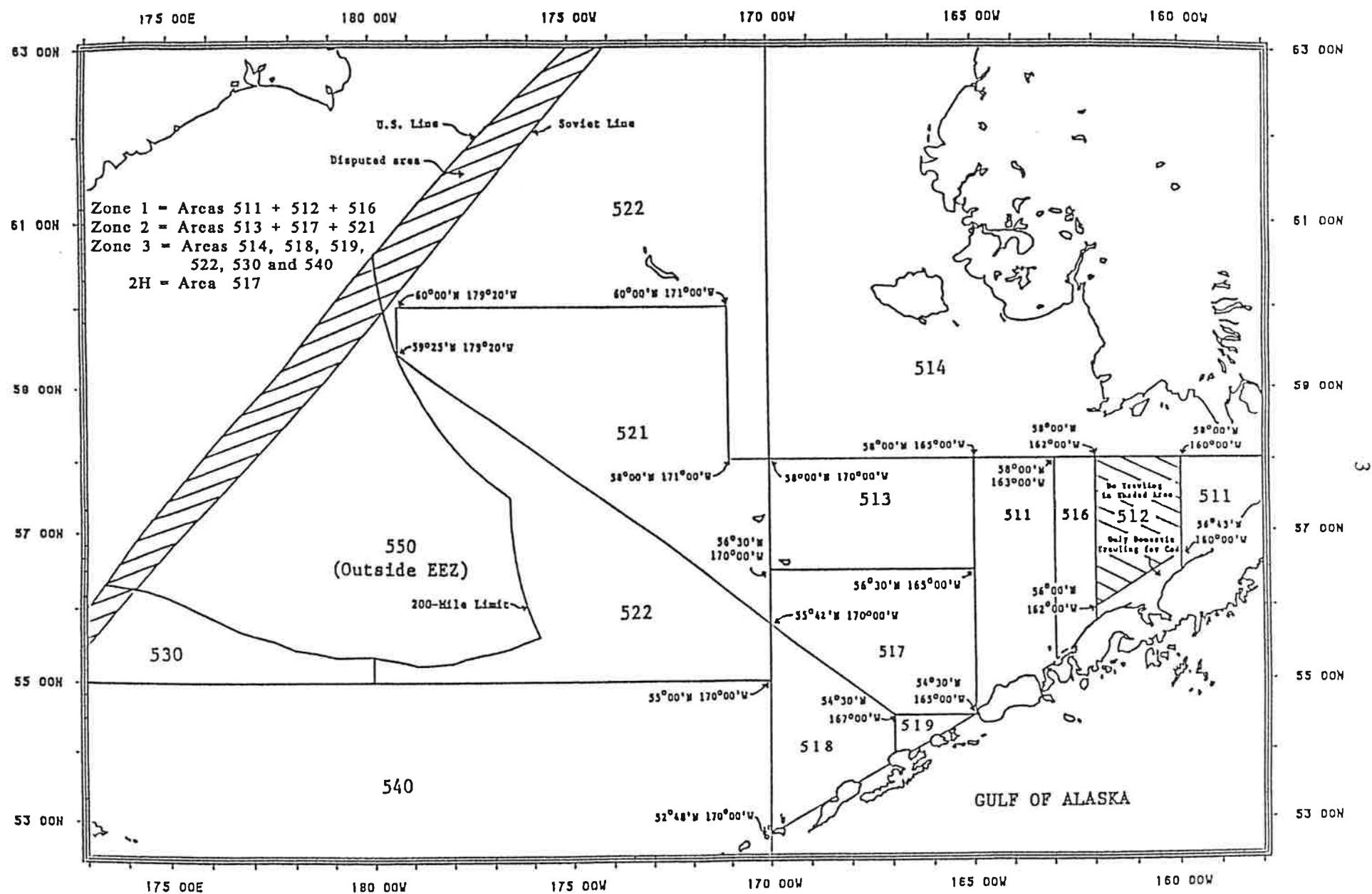


Figure 1. North Pacific Fishery Management Council management areas in the Bering Sea/Aleutian Islands region.

SECTION I

METHODS

Section I

Methods

Data Extraction

NMFS staff extracted data from the North Pacific (NORPAC) database for use in preparing the tables and charts presented in Sections II - VIII. NORPAC data are formatted on a tow-by-tow basis. Data from each observed tow include the following: date, location, estimated finfish catch in weight by species, king and Tanner crab catch in numbers, and minutes towed. For joint venture (JV) fisheries in 1986 and 1987, king and Tanner crab data are itemized into red king crab and bairdi Tanner crab, respectively. Crab data by species have been collected for other years, but have not yet been incorporated into the NORPAC database.

Date and location data were used to categorize each tow into a Month/Block/Year record. Blocks were coded with a six digit number in which the first and last three digits identify the longitude and latitude of the southeast corner of the block, respectively. For example, the block code 165553 identifies all tows made within the block whose southeast corner lies at 165:00 West longitude and 55:30 North latitude. Blocks lying west of 180:00 longitude (i.e., those identified by East longitude) were given longitude codes appropriately greater than 180. For example, the block code 185540 identified all tows made within the block whose southeast corner lies at 175:00 East longitude and 54:00 North latitude.

Each tow was further categorized into a directed fishery using the following criteria:

<u>Directed Fishery Name</u>	<u>Criteria (% of total catch)</u>
1. Pollock (Midwater)	Walleye Pollock > 95%
2. Other Flatfish	Other Flatfish (including rock sole) > 35%
3. Pacific Cod	Pacific Cod > 45%
4. Pollock (Bottom)	Walleye Pollock > 50%
5. Yellowfin Sole	Yellowfin Sole > 20%
6. Miscellaneous Species	None of the above.

Target fisheries were prioritized as above and were mutually exclusive. That is, tows that satisfied more than one criteria (e.g., Other Flatfish > 35% and Pacific Cod > 45%) were placed

in the directed fishery with greatest priority (Other Flatfish in this example). A summary database was created by summing catches (total including prohibited species, target species, halibut, herring, king crab, Tanner crab), minutes towed, and number of tows over each Month/Block/Year/Target record. The summary database, along with shoreline and bathymetric map data, was downloaded from the NMFS mainframe computer onto floppy disks and supplied to Marine Resources Consultants for analysis and graphics presentation.

Data Analysis

All records in which Miscellaneous Species was the directed fishery were extracted from the summary database and sorted by month, block, and year. The following variables were calculated for each Month/Block/Year record:

$$\begin{aligned}
 \text{Total CPUE (mt/hr)} &= \frac{\text{Total Catch (mt)}}{\text{Towing Time (hr)}} \\
 \\
 \text{Total CPUE (mt/tow)} &= \frac{\text{Total Catch (mt)}}{\text{Number of Tows}} \\
 \\
 \text{Halibut Bycatch Rate (\%)} &= \frac{\text{Halibut Catch (mt)}}{\text{Total Catch (mt)}} * 100 \\
 \\
 \text{Herring Bycatch Rate (\%)} &= \frac{\text{Herring Catch (mt)}}{\text{Total Catch (mt)}} * 100 \\
 \\
 \text{King Crab Bycatch Rate} &= \frac{\text{King Crab Catch (animals)}}{\text{Total Catch (mt)}} \\
 \\
 \text{Tanner Crab Bycatch Rate} &= \frac{\text{Tanner Crab Catch (animals)}}{\text{Total Catch (mt)}}
 \end{aligned}$$

where

$$\text{Total Catch} = \text{Total catch, including prohibited species.}$$

Unlike other reports in this series, there was no specific target species. Thus, no target CPUEs or target percentages were calculated. Total CPUEs measured in terms of metric tons per hour of towing were not calculated for records in which effort data were not accurately recorded (e.g., minutes towed was less than or equal to the number of tows) or were unrealistic (e.g., minutes per tow was greater than 480). Also, total CPUEs measured in terms of metric tons per

tow were not calculated for records with fewer than five tows to prevent readers from back-calculating the exact number of tows for that record.

Bycatch rates for red king crab and bairdi Tanner crab were not calculated. Since only a limited amount of red king crab and bairdi Tanner crab data were available (JV fishery in 1986-1987) and to maintain consistency from year to year, we decided to present only the king and Tanner crab data without itemization by species. King crab species include red, blue (*Paralithodes platypus*), golden (*Lithodes aequispina*), and couesi (*Lithodes couesi*).

Summary Tables

Tables II.1 through II.7 summarize total observed catch, number of observed tows, CPUEs, and bycatch rates by month and year. CPUEs were calculated by dividing total catches (summed over each Month/Year) by towing times (summed over each Month/Year). Bycatch rates were calculated by dividing total bycatches (summed over each Month/Year) by total catches (summed over each Month/Year).

Tables II.8 through II.15 list the Month/Block/Year records with the highest observed catch, number of observed tows, CPUEs, and bycatch rates for each prohibited species.

Each summary table has a date/time stamp at the bottom center to indicate the date and time the table was printed.

CPUE and Bycatch Rate Charts

The number of records in each one-half-by-one degree block was plotted on a chart to determine the geographic distribution of the data. Most of the data were concentrated along the continental shelf and in the Amchitka Pass and Seguam Pass regions. The entire range was too large to fit as a single chart on two 8.5" x 11" facing pages and still permit enough room to place annual bar graphs within individual blocks. Thus, we divided the geographic distribution into four display regions: West Bering Sea, East Bering Sea, Seguam Pass, and Amchitka Pass. Records located outside these regions are not displayed on the CPUE and bycatch rate charts in Sections III through VII. They are listed in the data tables in Section VIII, however.

Histograms of the CPUEs and bycatch rates were prepared to determine appropriate bar graph scales for each variable. Linear scales were selected such that about 10% of the bars would be too long to fit within a block. The bar graphs for these offscale records end in an arrow; the actual numerical values associated with these bars can be found in the data tables in Section VIII.

Figures I.1 and I.2 illustrate how to interpret the CPUE and bycatch rate charts. Each chart contains a page identifier indicating the month in which the observations were made, the target

species or fishery name (e.g., Miscellaneous Species), and the information represented by bar graphs (e.g., CPUEs, halibut bycatch rate, etc.). A legend near the top of each chart provides pertinent information about how to interpret the chart. Total CPUEs and bycatch rates are presented as bar graphs in which the bar length reflects total CPUE or bycatch rate. Scales are provided on each chart for converting bar graph lengths to approximate numerical values. A narrow bar indicates that fewer than five tows were observed; a wide bar indicates that five or more tows were observed. Land masses are represented by shaded areas. Bathymetric contour lines are given for the 200 meter (about 110 fathoms) and 1,000 meter (about 550 fathoms) contours. A date/time stamp is printed near the binding edge to indicate the date and time the chart was printed. Note that this date/time is different from the date and time when the data were retrieved from the NORPAC database.

Data Tables

The data used to prepare the charts in Sections III - VII are listed by month in Section VIII. To preserve the confidentiality of the data, the exact number of tows is not reported for records with fewer than five tows. Records that were located outside the geographic boundaries of the charts are shown in ***bold italics***. A date/time stamp is given at the bottom of each table to indicate the date and time the table was printed.

March

"Target Species"

Catch Per Unit Effort

LEGEND: Each page has a legend showing the bathymetric contour lines, the scale used to convert bar lengths to approximate CPUEs, and several sample bars.

— 200 Meter Contour.
— 1000 Meter Contour.
0 5 10 SCALE: Metric Tons Per Hour.

CHART IDENTIFIER: Gives month in which tows were observed, the target species of the tows, and identifies chart as a CPUE chart.

81 — 1981 Both CPUEs Onscale. Five or More Tows (Wide Bar).
83 — 1983 Both CPUEs Onscale. Less than Five Tows (Narrow Bar).
85 — 1985 Both CPUEs Offscale (Pointed End). Five or More Tows.
87 — 1987 Total CPUE Offscale; Target CPUE Onscale. Less than Five Tows.

NOTES: Entire bar is Total CPUE; filled portion is Target CPUE.
Consult data tables (Section VIII) to determine offscale values.

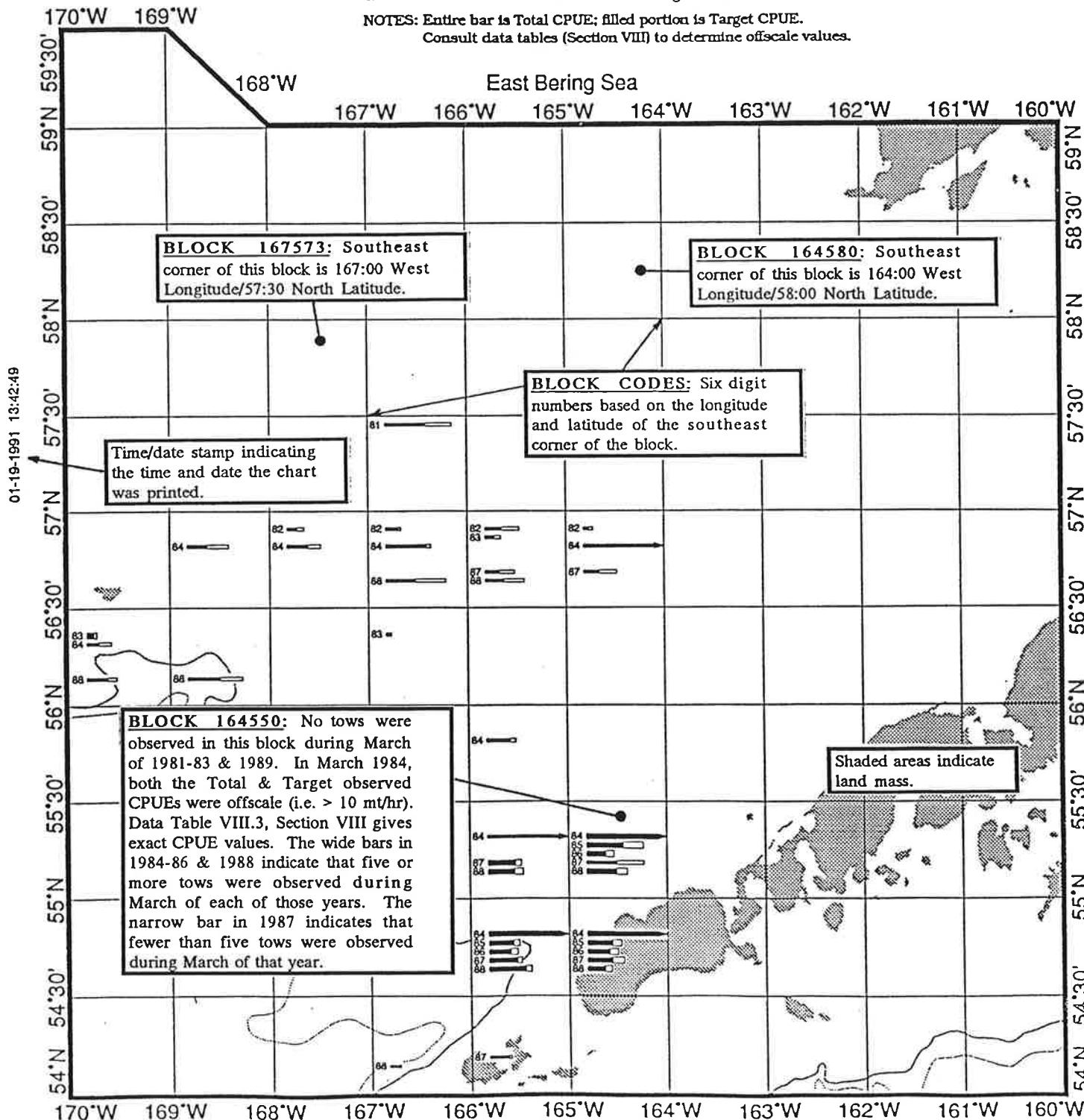


Figure I.1. Illustration of how to interpret a Catch Per Unit Effort chart.

April

"Target Species"

Tanner Crab Bycatch Rate

CHART IDENTIFIER: Gives month in which tows were observed, the target species of the tows, and identifies chart as a Tanner Crab Bycatch Rate chart.

LEGEND: Each page has a legend showing the bathymetric contour lines, the scale used to convert bar lengths to approximate bycatch rates, and several sample bars.

— 200 Meter Contour.
— 1000 Meter Contour.

0 25 SCALE: Individuals per Metric Ton.

81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 — 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

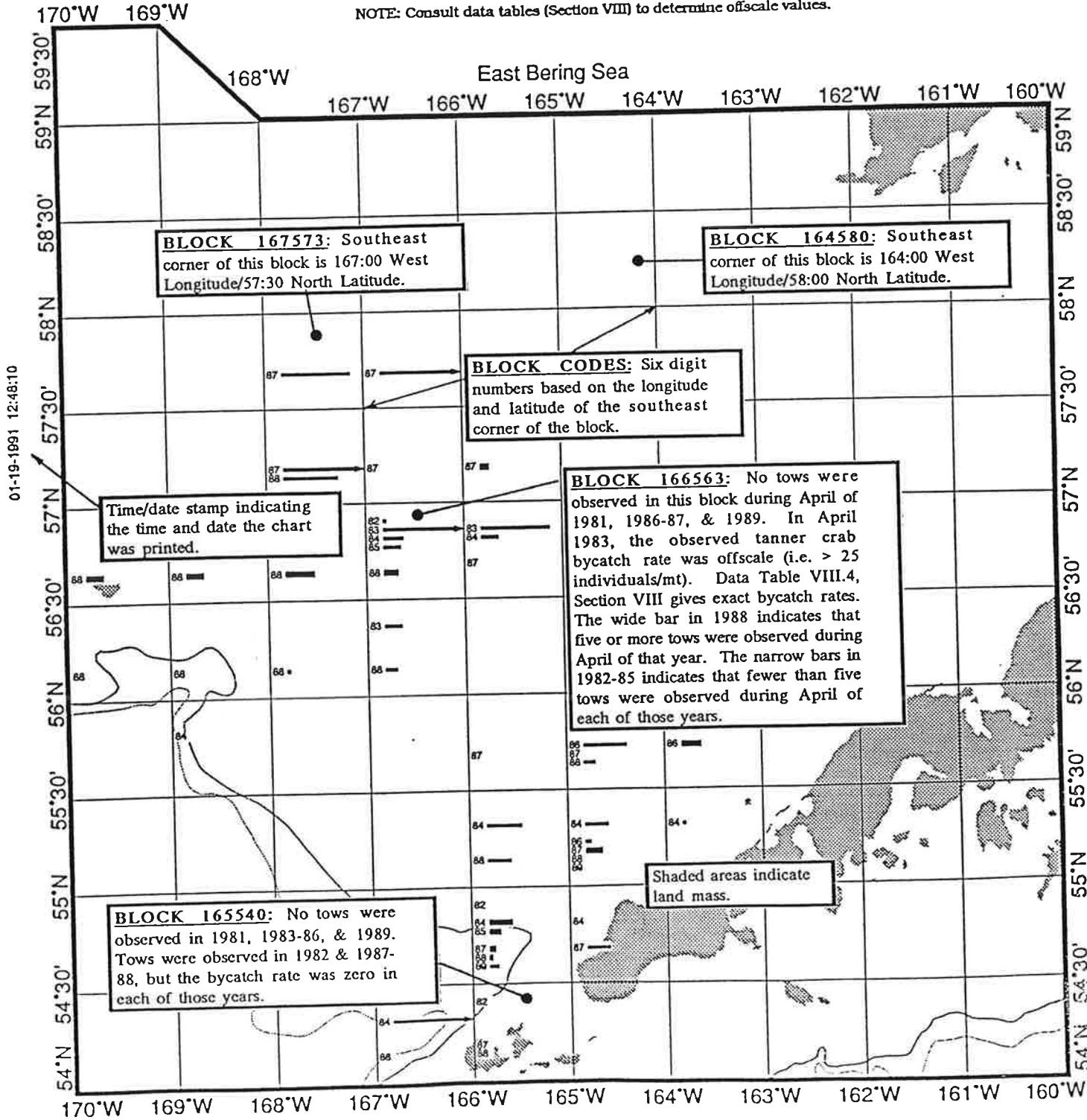


Figure I.2. Illustration of how to interpret a Bycatch Rate chart.

SECTION II

SUMMARY TABLES

Code definitions for Tables II.7-II.15.

Mo: The month in which the tows were observed.

Block: Six digit number in which the first and last three digits identify the longitude and latitude of the southeast corner of the one-half-by-one-degree block, respectively. For example, the block code 165553 identifies all tows made within the block whose southeast corner lies at 165:00 West longitude and 55:30 North latitude. Blocks lying west of 180:00 longitude (i.e., those identified by East longitude) have longitude codes appropriately greater than 180. For example, the block code 185540 identifies all tows made within the block whose southeast corner lies at 175:00 East longitude and 54:00 North latitude.

Yr: The year in which the tows were observed.

Total Observed Catch (mt): Total catch in metric tons (including prohibited species) from tows observed within the given Month/Block/Year.

Total CPUE (mt/hr): Total catch in metric tons (including prohibited species) divided by the total number of hours towed. N/A indicates CPUE data were not available.

Total CPUE (mt/tow): Total catch in metric tons (including prohibited species) divided by the total number of tows. N/A indicates CPUE data were not available.

Hal Bycatch Rate: Halibut catch in metric tons divided by total catch (including prohibited species) in metric tons, expressed as a percentage (i.e., times 100).

Her Bycatch Rate: Herring catch in metric tons divided by total catch (including prohibited species) in metric tons, expressed as a percentage (i.e., times 100).

KC Bycatch Rate: King crab catch in numbers divided by total catch (including prohibited species) in metric tons.

TC Bycatch Rate: Tanner crab catch in numbers divided by total catch (including prohibited species) in metric tons.

Tows: Number of tows observed within the given Month/Block/Year. If fewer than five tows were observed, “<5” is given rather than the exact number to preserve the confidentiality of the data.

Table II.1. Total catch (mt) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	85	121	233	7	7	0	61	603	11,578	12,696
Feb	395	277	1,496	175	3	37	93	1,557	36,876	40,908
Mar	670	804	3,039	452	98	242	681	3,486	0	9,472
Apr	950	1,898	3,184	3,417	2,236	1,589	1,294	10,771	57	25,395
May	747	4,243	7,671	9,855	2,656	3,651	7,467	2,519	25	38,833
Jun	697	4,665	4,891	22,659	3,634	1,791	5,975	10,457	374	55,145
Jul	805	3,566	4,421	19,750	1,678	1,718	7,190	7,348	966	47,442
Aug	370	3,801	5,919	9,058	1,738	913	1,000	0	109	22,908
Sep	405	2,822	3,386	4,363	2,574	1,997	1,203	467	736	17,953
Oct	950	2,959	3,468	3,371	1,864	1,478	4,292	722	1,461	20,565
Nov	561	2,401	4,827	2,329	3,915	1,534	829	24	758	17,178
Dec	105	896	1,773	782	1,301	95	0	519	840	6,312
ALL	6,740	28,454	44,309	76,217	21,704	15,044	30,087	38,472	53,781	314,808

Table II.2. Total number of tows observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	38	34	105	<5	<5	0	<5	25	364	574
Feb	90	92	446	20	<5	<5	6	68	1,090	1,815
Mar	146	209	979	78	16	24	36	170	0	1,658
Apr	214	708	924	203	409	143	100	599	5	3,305
May	196	1,011	1,564	558	709	198	284	107	<5	4,628
Jun	182	798	1,689	2,886	972	194	247	443	25	7,436
Jul	173	1,009	839	2,008	356	290	394	332	54	5,455
Aug	126	1,215	894	1,788	489	123	69	0	11	4,715
Sep	139	1,244	1,492	1,395	467	288	54	16	57	5,152
Oct	148	1,146	1,971	1,056	297	251	360	37	157	5,423
Nov	126	609	1,994	605	560	208	128	<5	59	4,291
Dec	28	199	476	109	181	11	0	41	47	1,092
ALL	1,606	8,274	13,373	10,709	4,461	1,731	1,680	1,840	1,870	45,544

Table II.3. Total Catch Per Unit Effort (mt/hr) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.6	0.9	0.4	0.6	1.1	N/A	7.6	8.0	13.4	7.0
Feb	1.1	0.6	0.5	2.3	1.7	12.9	4.4	8.2	48.7	8.8
Mar	1.0	0.8	0.5	1.9	3.6	2.7	5.7	8.1	N/A	1.1
Apr	1.0	0.4	0.4	26.4	1.0	2.0	3.6	5.7	8.6	1.6
May	0.8	0.3	0.5	13.0	0.7	8.8	8.1	5.5	3.6	1.6
Jun	0.7	0.2	0.4	1.8	0.7	1.8	8.5	12.2	6.7	1.4
Jul	0.8	0.3	0.4	2.6	0.9	1.2	5.0	12.5	11.6	1.9
Aug	0.6	0.3	0.5	1.2	0.7	1.5	3.9	N/A	3.7	0.8
Sep	0.6	0.4	0.3	0.7	1.2	1.4	6.1	5.9	4.2	0.7
Oct	1.6	0.5	0.3	0.6	1.2	1.2	2.4	3.7	2.3	0.7
Nov	1.2	0.7	0.4	0.8	1.3	1.5	1.3	2.6	3.3	0.7
Dec	<u>1.1</u>	<u>1.0</u>	<u>0.7</u>	<u>1.5</u>	<u>1.4</u>	<u>1.9</u>	<u>N/A</u>	<u>3.4</u>	<u>4.9</u>	<u>1.2</u>
ALL	0.9	0.4	0.4	1.7	0.9	1.9	4.7	7.8	17.9	1.4

Table II.4. Halibut bycatch rate (% of total catch by weight) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	4.18%	2.13%	1.65%	6.10%	1.75%	N/A	0.14%	0.39%	0.02%	0.12%
Feb	1.19%	0.96%	1.46%	1.83%	2.45%	0.17%	0.53%	0.60%	0.01%	0.11%
Mar	0.97%	0.37%	0.91%	1.58%	1.49%	0.94%	1.33%	0.51%	N/A	0.79%
Apr	0.66%	0.61%	0.78%	0.32%	1.45%	0.57%	0.50%	2.24%	1.31%	1.35%
May	1.21%	0.20%	0.39%	0.14%	1.00%	0.32%	0.24%	1.58%	0.44%	0.41%
Jun	0.30%	0.21%	0.78%	0.57%	0.56%	0.54%	0.48%	0.29%	0.70%	0.49%
Jul	0.18%	0.30%	0.55%	0.23%	0.58%	0.24%	0.41%	0.23%	0.18%	0.31%
Aug	0.37%	0.75%	0.18%	0.34%	0.30%	0.40%	0.26%	N/A	4.17%	0.38%
Sep	0.31%	0.25%	0.40%	0.41%	0.98%	0.25%	0.28%	0.65%	0.60%	0.45%
Oct	1.36%	0.67%	1.01%	0.68%	0.88%	0.45%	0.74%	1.04%	1.15%	0.82%
Nov	1.22%	0.79%	1.20%	1.08%	1.12%	0.56%	2.36%	2.80%	2.04%	1.15%
Dec	<u>0.68%</u>	<u>1.95%</u>	<u>1.87%</u>	<u>0.94%</u>	<u>1.22%</u>	<u>1.19%</u>	<u>N/A</u>	<u>3.81%</u>	<u>3.08%</u>	<u>1.92%</u>
ALL	0.84%	0.50%	0.72%	0.41%	0.91%	0.41%	0.50%	1.01%	0.14%	0.54%

Table II.5. Herring bycatch rate (% of total catch by weight) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	0.00%	0.00%	0.00%	0.00%
Feb	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mar	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	N/A	0.01%
Apr	0.00%	0.20%	0.00%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	0.02%
May	0.00%	0.03%	0.00%	0.00%	0.00%	0.02%	0.05%	0.03%	0.00%	0.02%
Jun	0.05%	0.00%	0.02%	0.00%	1.56%	0.04%	0.61%	0.45%	0.65%	0.26%
Jul	0.02%	0.00%	0.03%	0.00%	0.64%	0.00%	0.02%	0.00%	0.65%	0.04%
Aug	0.00%	0.04%	0.01%	0.17%	0.00%	2.30%	0.01%	N/A	0.00%	0.17%
Sep	0.00%	2.32%	0.26%	0.44%	1.03%	0.07%	0.75%	1.02%	0.01%	0.75%
Oct	0.00%	1.60%	1.99%	0.03%	3.21%	0.08%	0.25%	0.02%	0.02%	0.92%
Nov	0.00%	0.52%	0.00%	0.00%	0.82%	0.00%	0.01%	0.00%	0.00%	0.26%
Dec	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	N/A	0.00%	0.00%	0.00%
ALL	0.02%	0.46%	0.18%	0.05%	0.86%	0.17%	0.21%	0.14%	0.02%	0.19%

Table II.6. King crab bycatch rate (number of animals per metric ton of total catch) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	1.2	2.3	3.4	0.6	2.9	N/A	0.0	0.0	0.0	0.1
Feb	2.2	0.4	3.3	0.0	0.0	0.3	0.0	0.9	0.1	0.2
Mar	5.5	0.9	3.3	0.1	8.2	0.3	0.6	0.1	N/A	1.7
Apr	4.1	0.4	2.1	1.2	2.7	0.6	1.4	0.0	0.2	1.0
May	6.7	2.4	1.5	0.1	5.9	0.5	0.0	0.3	0.0	1.2
Jun	5.4	1.4	3.9	2.1	1.8	1.2	0.0	0.0	6.8	1.6
Jul	7.7	0.9	2.5	0.6	2.5	0.6	0.1	0.0	0.4	0.8
Aug	4.1	3.5	0.4	1.0	4.1	1.1	0.4	N/A	0.1	1.5
Sep	4.5	2.7	1.0	3.2	2.2	0.7	0.0	0.0	0.8	1.9
Oct	0.9	3.1	1.9	3.0	1.3	0.5	0.1	0.0	0.6	1.5
Nov	2.9	1.8	1.8	2.5	1.0	0.6	0.1	0.1	0.5	1.5
Dec	0.7	2.2	1.0	2.6	1.8	0.6	N/A	0.4	0.6	1.4
ALL	4.4	2.1	2.0	1.4	2.5	0.7	0.2	0.1	0.1	1.1

Table II.7. Tanner crab bycatch rate (number of animals per metric ton of total catch) observed in the BSAI Miscellaneous Species trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	24.7	15.5	10.9	5.2	29.0	N/A	0.7	1.9	0.3	0.9
Feb	25.3	9.3	27.6	10.3	7.6	0.4	23.4	2.5	0.0	1.5
Mar	39.0	8.2	16.9	35.9	15.0	14.5	3.2	7.7	N/A	14.2
Apr	19.6	6.5	7.4	3.9	6.7	11.3	105.8	7.6	0.9	12.6
May	18.3	4.1	7.4	0.5	19.9	1.9	63.1	13.5	4.2	16.9
Jun	29.1	2.1	14.2	6.0	26.1	86.3	6.5	8.1	3.1	11.1
Jul	16.2	3.2	4.6	5.3	7.6	4.7	17.1	1.0	0.6	6.3
Aug	24.6	5.0	3.3	9.0	12.2	3.1	3.7	N/A	12.6	6.9
Sep	8.6	8.0	9.8	17.3	6.9	2.8	0.8	2.7	25.6	10.0
Oct	8.9	10.0	17.3	22.9	6.5	6.9	6.1	22.9	54.1	15.5
Nov	5.2	11.7	31.7	35.2	9.7	5.3	13.6	2.4	32.1	20.2
Dec	<u>32.4</u>	<u>17.3</u>	<u>18.0</u>	<u>12.3</u>	<u>9.4</u>	<u>22.1</u>	<u>N/A</u>	<u>21.2</u>	<u>33.1</u>	<u>18.0</u>
ALL	19.5	6.2	12.7	7.9	12.8	14.6	27.1	7.0	2.9	10.2

Table II.8. Month/Block/Year records with the highest total observed catch in the BSAI
Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed		Total CPUEs		Bycatch Rates																																																																																																																																																																																					
			Catch	MT	MT Per Hour	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows																																																																																																																																																																																	
2	162560	89	24,835.1	55.6	34.7	0.0%	0.0%	0.0	0.0	0.0	716																																																																																																																																																																																	
7	172520	84	12,643.5	48.2	25.4	0.2%	0.0%	0.0	0.0	0.0	497																																																																																																																																																																																	
6	172520	84	12,431.5	37.5	21.0	0.2%	0.0%	0.0	0.0	0.0	591																																																																																																																																																																																	
2	163560	89	11,507.5	44.0	32.6	0.0%	0.0%	0.1	0.0	0.0	353																																																																																																																																																																																	
1	164550	89	8,174.4	13.8	36.3	0.0%	0.0%	0.0	0.2	0.0	225																																																																																																																																																																																	
6	181513	88	5,123.0	34.3	28.9	0.1%	0.0%	0.0	0.0	0.0	177																																																																																																																																																																																	
7	179523	88	4,676.5	19.9	23.0	0.2%	0.0%	0.0	0.0	0.0	203																																																																																																																																																																																	
5	179523	87	4,333.9	13.9	33.1	0.0%	0.0%	0.0	0.0	0.0	131																																																																																																																																																																																	
5	172520	84	4,184.7	51.4	16.2	0.1%	0.0%	0.0	0.0	0.0	258																																																																																																																																																																																	
8	172520	83	3,814.0	N/A	16.0	0.2%	0.0%	0.0	0.0	0.0	239																																																																																																																																																																																	
8	172520	84	3,662.1	35.4	21.8	0.2%	0.0%	0.0	0.0	0.0	168																																																																																																																																																																																	
4	167563	88	3,652.6	5.7	20.1	2.9%	0.0%	0.0	6.1	0.0	182																																																																																																																																																																																	
5	172520	86	3,174.0	13.9	21.6	0.1%	0.0%	0.0	0.0	0.0	147																																																																																																																																																																																	
5	179523	84	2,992.4	38.1	23.9	0.1%	0.0%	0.0	0.0	0.0	125																																																																																																																																																																																	
6	179523	87	2,946.1	10.8	30.7	0.5%	0.0%	0.0	0.0	0.0	96																																																																																																																																																																																	
6	172520	82	2,633.2	N/A	23.1	0.2%	0.0%	0.0	0.0	0.0	114																																																																																																																																																																																	
10	172520	87	2,584.8	13.9	30.8	0.1%	0.0%	0.0	0.0	0.0	84																																																																																																																																																																																	
7	179523	87	2,496.9	8.7	21.2	0.3%	0.0%	0.0	0.0	0.0	118																																																																																																																																																																																	
1	163563	89	2,493.9	21.2	30.8	0.0%	0.0%	0.0	0.2	0.0	81																																																																																																																																																																																	
6	179523	88	2,458.3	12.6	20.7	0.3%	0.0%	0.0	0.0	0.0	119																																																																																																																																																																																	
7	172520	87	2,338.2	4.7	18.1	0.5%	0.0%	0.0	0.0	0.0	129																																																																																																																																																																																	
6	172520	87	2,014.1	8.3	22.4	0.3%	0.0%	0.0	0.0	0.0	90																																																																																																																																																																																	
5	172520	83	1,909.8	N/A	18.7	0.4%	0.0%	0.0	0.0	0.0	102																																																																																																																																																																																	
4	166563	88	1,883.2	6.2	17.4	1.5%	0.0%	0.0	6.6	0.0	108																																																																																																																																																																																	
5	173520	83	1,836.7	N/A	20.4	0.4%	0.0%	0.0	0.0	0.0	90																																																																																																																																																																																	
7	172520	83	1,749.0	N/A	15.8	0.3%	0.0%	0.0	0.0	0.0	111																																																																																																																																																																																	
4	165560	88	1,648.4	5.0	16.5	1.3%	0.0%	0.0	11.8	0.0	100																																																																																																																																																																																	
6	178600	84	1,371.4	0.6	3.2	2.0%	0.0%	11.0	11.6	422	4	180510	84	1,253.2	32.7	16.3	0.0%	0.0%	0.0	0.0	0.0	77	7	173520	84	1,252.7	30.2	23.2	0.2%	0.0%	0.0	0.0	0.0	54	4	168563	88	1,211.7	6.4	17.8	2.6%	0.0%	0.0	11.3	0.0	68	6	179603	84	1,159.6	0.5	2.9	2.2%	0.0%	11.8	12.7	399	6	173520	82	1,077.5	N/A	22.9	0.3%	0.0%	0.0	0.0	0.0	47	8	173520	84	1,009.4	35.1	25.2	0.2%	0.0%	0.0	0.0	0.0	40	8	172520	82	1,007.8	N/A	21.9	0.4%	0.0%	0.0	0.0	0.0	46	7	172520	82	1,000.8	N/A	21.8	0.3%	0.0%	0.0	0.0	0.0	46	5	181520	83	995.5	1.6	10.7	0.0%	0.0%	1.8	0.0	0.0	93	4	166560	88	957.9	6.8	18.1	3.6%	0.0%	0.0	4.0	0.0	53	6	178603	84	931.1	1.3	6.9	2.3%	0.0%	4.8	14.1	135	5	173520	82	930.5	N/A	13.5	0.2%	0.0%	0.0	0.0	0.0	69	6	173520	84	885.7	37.1	22.1	0.2%	0.0%	0.0	0.0	0.0	40	3	166563	88	838.6	10.1	21.5	0.1%	0.0%	0.0	10.3	0.0	39	5	180510	87	829.5	12.1	33.2	0.0%	0.0%	0.0	0.0	0.0	25
4	180510	84	1,253.2	32.7	16.3	0.0%	0.0%	0.0	0.0	0.0	77																																																																																																																																																																																	
7	173520	84	1,252.7	30.2	23.2	0.2%	0.0%	0.0	0.0	0.0	54																																																																																																																																																																																	
4	168563	88	1,211.7	6.4	17.8	2.6%	0.0%	0.0	11.3	0.0	68																																																																																																																																																																																	
6	179603	84	1,159.6	0.5	2.9	2.2%	0.0%	11.8	12.7	399																																																																																																																																																																																		
6	173520	82	1,077.5	N/A	22.9	0.3%	0.0%	0.0	0.0	0.0	47																																																																																																																																																																																	
8	173520	84	1,009.4	35.1	25.2	0.2%	0.0%	0.0	0.0	0.0	40																																																																																																																																																																																	
8	172520	82	1,007.8	N/A	21.9	0.4%	0.0%	0.0	0.0	0.0	46																																																																																																																																																																																	
7	172520	82	1,000.8	N/A	21.8	0.3%	0.0%	0.0	0.0	0.0	46																																																																																																																																																																																	
5	181520	83	995.5	1.6	10.7	0.0%	0.0%	1.8	0.0	0.0	93																																																																																																																																																																																	
4	166560	88	957.9	6.8	18.1	3.6%	0.0%	0.0	4.0	0.0	53																																																																																																																																																																																	
6	178603	84	931.1	1.3	6.9	2.3%	0.0%	4.8	14.1	135																																																																																																																																																																																		
5	173520	82	930.5	N/A	13.5	0.2%	0.0%	0.0	0.0	0.0	69																																																																																																																																																																																	
6	173520	84	885.7	37.1	22.1	0.2%	0.0%	0.0	0.0	0.0	40																																																																																																																																																																																	
3	166563	88	838.6	10.1	21.5	0.1%	0.0%	0.0	10.3	0.0	39																																																																																																																																																																																	
5	180510	87	829.5	12.1	33.2	0.0%	0.0%	0.0	0.0	0.0	25																																																																																																																																																																																	

Table II.9. Month/Block/Year records with the highest number of observed tows in the
BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
				Hour	MT Per Tow	(% by weight) Hal	Her	KC	TC	Tows
2	162560	89	24,835.1	55.6	34.7	0.0%	0.0%	0.0	0.0	716
6	172520	84	12,431.5	37.5	21.0	0.2%	0.0%	0.0	0.0	591
7	172520	84	12,643.5	48.2	25.4	0.2%	0.0%	0.0	0.0	497
6	178600	84	1,371.4	0.6	3.2	2.0%	0.0%	11.0	11.6	422
6	179603	84	1,159.6	0.5	2.9	2.2%	0.0%	11.8	12.7	399
2	163560	89	11,507.5	44.0	32.6	0.0%	0.0%	0.1	0.0	353
6	178600	83	483.1	0.2	1.6	1.1%	0.0%	8.5	25.7	305
9	166543	83	729.6	0.5	2.4	0.6%	0.0%	1.7	6.8	304
6	179603	83	390.3	0.2	1.4	1.2%	0.0%	6.3	47.0	270
5	172520	84	4,184.7	51.4	16.2	0.1%	0.0%	0.0	0.0	239
8	172520	83	3,814.0	N/A	16.0	0.2%	0.0%	0.0	0.0	239
5	179603	83	443.9	0.3	1.9	0.8%	0.0%	2.6	39.3	233
3	178590	83	624.7	0.4	2.7	1.0%	0.0%	4.8	15.0	229
1	164550	89	8,174.4	13.8	36.3	0.0%	0.0%	0.0	0.2	225
10	173570	83	252.1	0.2	1.1	0.8%	0.0%	1.1	19.9	225
5	178600	83	376.6	0.3	1.7	0.8%	0.0%	2.6	15.1	222
4	178600	82	481.7	0.3	2.2	0.1%	0.0%	0.2	7.5	217
6	177590	84	545.1	0.5	2.6	0.3%	0.0%	6.0	7.3	208
4	179603	82	459.5	0.3	2.2	0.1%	0.0%	0.2	11.7	207
5	178600	82	284.5	0.2	1.4	0.1%	0.0%	0.9	8.4	204
7	179523	88	4,676.5	19.9	23.0	0.2%	0.0%	0.0	0.0	203
9	167543	83	419.3	0.5	2.3	0.8%	0.0%	1.6	10.4	184
4	167563	88	3,652.6	5.7	20.1	2.9%	0.0%	0.0	9.7	182
9	166543	82	364.2	0.5	2.0	0.4%	0.0%	2.2	9.7	182
5	179603	82	225.2	0.2	1.3	0.2%	0.0%	0.6	20.7	180
6	181513	88	5,123.0	34.3	28.9	0.1%	0.0%	0.0	0.0	177
9	175580	83	194.6	0.2	1.1	0.1%	0.0%	0.8	34.0	173
11	173570	83	291.2	0.3	1.7	1.8%	0.0%	0.4	72.1	173
8	178600	84	473.1	0.5	2.8	0.1%	0.0%	1.7	11.3	172
8	172520	84	3,662.1	35.4	21.8	0.2%	0.0%	0.0	0.0	168
4	178590	83	274.3	0.3	1.6	0.6%	0.0%	3.4	3.5	167
10	175580	83	180.5	0.2	1.1	0.6%	0.0%	0.5	26.0	164
10	166543	83	386.2	0.5	2.4	2.9%	0.0%	1.4	7.9	163
10	173563	83	196.5	0.2	1.3	1.2%	0.0%	1.7	37.1	154
10	166543	82	254.9	0.4	1.7	1.5%	0.0%	4.0	11.3	149
10	172563	83	218.8	0.2	1.5	0.7%	0.0%	1.5	10.2	148
5	172520	86	3,174.0	13.9	21.6	0.1%	0.0%	0.0	0.0	147
9	166543	84	404.5	0.6	2.8	0.5%	0.0%	2.6	21.3	146
11	167543	83	379.2	0.5	2.6	0.5%	0.0%	0.1	56.2	145
11	173563	83	240.1	0.3	1.7	1.7%	0.0%	0.6	67.4	140
3	177590	83	418.2	0.5	3.0	1.3%	0.0%	2.6	12.1	139
8	167543	83	240.7	0.4	1.8	0.3%	0.0%	0.8	9.3	136
6	178603	84	931.1	1.3	6.9	2.3%	0.0%	4.8	14.1	135

Table II.10. Month/Block/Year records with the highest total Catch Per Unit Effort (mt/hr) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed		Total CPUEs		Bycatch Rates				
			Catch	MT	Hour	MT Per	(% by weight)	(numbers/mt)	KC	TC	Tows
7	181513	88	816.7	408.4	24.7	0.0%	0.0%	0.0	0.0	0.0	33
3	172520	82	65.3	195.9	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
4	179523	84	339.8	131.5	37.8	0.6%	0.0%	0.1	0.0	0.0	9
5	174520	84	225.9	123.2	22.6	0.1%	0.0%	0.0	0.0	0.0	10
11	172513	81	102.2	111.5	N/A	0.3%	0.0%	0.0	0.0	0.0	<5
4	172540	84	86.5	91.1	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
10	172513	81	387.4	83.0	38.7	2.5%	0.0%	0.0	0.0	0.0	10
6	181510	88	219.3	81.2	19.9	0.1%	0.0%	0.0	0.0	0.0	11
8	171520	83	37.0	74.0	N/A	0.2%	0.0%	0.0	0.0	0.0	<5
9	171520	83	24.5	73.5	N/A	0.2%	0.0%	0.0	0.0	0.0	<5
4	165543	84	187.2	67.3	17.0	0.6%	0.0%	0.0	17.2	0.0	11
6	172523	84	61.4	61.4	N/A	0.2%	0.0%	0.0	0.0	0.0	<5
2	162560	89	24,835.1	55.6	34.7	0.0%	0.0%	0.0	0.0	0.0	716
4	163550	89	27.2	54.4	N/A	0.4%	0.0%	0.0	1.9	0.0	<5
5	172520	84	4,184.7	51.4	16.2	0.1%	0.0%	0.0	0.0	0.0	258
4	172520	84	346.3	48.7	20.4	0.1%	0.0%	0.0	0.0	0.0	17
7	172520	84	12,643.5	48.2	25.4	0.2%	0.0%	0.0	0.0	0.0	497
5	172520	81	134.3	47.4	26.9	1.7%	0.0%	0.0	0.0	0.0	5
3	162560	88	159.7	45.6	N/A	0.0%	0.0%	2.2	0.2	0.0	<5
2	163560	89	11,507.5	44.0	32.6	0.0%	0.0%	0.1	0.0	0.0	353
7	172523	84	40.7	41.4	N/A	0.5%	0.0%	0.0	0.0	0.0	<5
5	171520	82	122.4	40.8	15.3	0.2%	0.0%	0.0	0.0	0.0	8
5	179520	84	411.7	40.1	22.9	0.0%	0.0%	0.0	0.0	0.0	18
4	170520	81	54.9	38.8	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
5	179523	84	2,992.4	38.1	23.9	0.1%	0.0%	0.0	0.0	0.0	125
6	172520	84	12,431.5	37.5	21.0	0.2%	0.0%	0.0	0.0	0.0	591
5	180520	84	115.7	37.3	19.3	0.0%	0.0%	0.0	0.0	0.0	6
6	173520	84	885.7	37.1	22.1	0.2%	0.0%	0.0	0.0	0.0	40
4	181510	84	687.3	36.8	20.8	0.0%	0.0%	0.0	0.0	0.0	33
9	160570	84	385.5	35.8	18.4	0.6%	0.0%	6.0	4.3	0.0	21
8	172520	84	3,662.1	35.4	21.8	0.2%	0.0%	0.0	0.0	0.0	168
11	171513	82	352.6	35.3	19.6	0.0%	0.0%	0.0	0.0	0.0	18
8	173520	84	1,009.4	35.1	25.2	0.2%	0.0%	0.0	0.0	0.0	40
4	172513	82	74.6	34.4	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
6	181513	88	5,123.0	34.3	28.9	0.1%	0.0%	0.0	0.0	0.0	177
7	179513	89	101.1	33.7	16.9	0.0%	0.0%	0.0	0.0	0.0	6
4	180510	84	1,253.2	32.7	16.3	0.0%	0.0%	0.0	0.0	0.0	77
7	163563	84	55.6	31.8	N/A	0.1%	0.0%	0.0	0.1	0.0	<5
8	169530	84	47.6	31.7	N/A	0.3%	0.0%	0.0	0.0	0.0	<5
5	173520	84	353.3	31.3	16.1	0.1%	0.0%	0.0	0.0	0.0	22
7	173520	84	1,252.7	30.2	23.2	0.2%	0.0%	0.0	0.0	0.0	54
9	171513	83	29.9	29.9	N/A	0.7%	0.0%	0.0	0.0	0.0	<5
4	172520	81	144.1	29.3	24.0	0.1%	0.0%	1.9	0.0	0.0	6

Table II.11. Month/Block/Year records with the highest total Catch Per Unit Effort (mt/tow) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed		Total CPUEs		Bycatch Rates				
			Catch	MT	MT Per Hour	Tow	(% by weight)	Hal	Her	KC	TC
7	163560	84	460.9	17.2	57.6	0.0%	0.0%	0.0	0.2	8	
7	178523	88	291.4	N/A	41.6	0.2%	0.0%	0.0	0.0	7	
10	172513	81	387.4	83.0	38.7	2.5%	0.0%	0.0	0.8	12	
6	164560	84	460.2	11.1	38.4	0.0%	0.0%	0.0	0.8	12	
4	179523	84	339.8	131.5	37.8	0.6%	0.0%	0.1	0.0	9	
1	164550	89	8,174.4	13.8	36.3	0.0%	0.0%	0.0	0.2	225	
2	162560	89	24,835.1	55.6	34.7	0.0%	0.0%	0.0	0.0	716	
9	172520	87	637.5	17.1	33.6	0.3%	0.0%	0.0	0.0	19	
5	180510	87	829.5	12.1	33.2	0.0%	0.0%	0.0	0.0	25	
5	164550	82	265.0	N/A	33.1	0.0%	0.0%	0.0	0.0	8	
5	179523	87	4,333.9	13.9	33.1	0.0%	0.0%	0.0	0.0	131	
2	163560	89	11,507.5	44.0	32.6	0.0%	0.0%	0.1	0.0	353	
5	163550	88	290.3	7.9	32.3	1.0%	0.0%	0.2	25.1	9	
6	165560	84	478.6	6.5	31.9	0.0%	0.0%	0.0	0.5	15	
5	170563	84	541.6	4.8	31.9	0.1%	0.0%	0.0	0.1	17	
12	181520	83	311.5	5.2	31.2	0.0%	0.0%	0.4	0.1	10	
1	163563	89	2,493.9	21.2	30.8	0.0%	0.0%	0.0	0.2	81	
10	172520	87	2,584.8	13.9	30.8	0.1%	0.0%	0.0	0.0	84	
1	164550	88	399.4	12.2	30.7	0.2%	0.0%	0.0	0.4	13	
6	179523	87	2,946.1	10.8	30.7	0.5%	0.0%	0.0	0.0	96	
8	172520	87	364.5	11.2	30.4	0.1%	0.0%	0.1	0.0	12	
12	169563	89	212.3	5.4	30.3	0.8%	0.0%	1.6	73.5	7	
5	164550	88	623.0	7.9	29.7	1.4%	0.0%	0.1	10.5	21	
6	181513	88	5,123.0	34.3	28.9	0.1%	0.0%	0.0	0.0	177	
2	163550	88	173.1	9.6	28.9	0.3%	0.0%	0.2	0.6	6	
12	169570	89	226.4	13.2	28.3	0.9%	0.0%	0.7	33.8	8	
4	164550	88	168.1	8.6	28.0	0.6%	0.0%	0.0	1.8	6	
5	163553	88	594.2	5.9	27.0	1.2%	0.0%	0.4	9.6	22	
5	172520	81	134.3	47.4	26.9	1.7%	0.0%	0.0	0.0	5	
10	169560	88	131.1	5.3	26.2	1.3%	0.1%	0.0	19.5	18	
3	167563	88	463.8	12.1	25.8	0.1%	0.0%	0.0	0.0	497	
7	172520	84	12,643.5	48.2	25.4	0.2%	0.0%	0.0	0.0		
2	163553	89	533.1	10.9	25.4	0.3%	0.0%	1.2	1.4	21	
2	164550	88	557.8	9.5	25.4	0.2%	0.0%	0.2	1.6	22	
8	173520	84	1,009.4	35.1	25.2	0.2%	0.0%	0.0	0.0	40	
5	180523	84	126.1	17.3	25.2	0.0%	0.0%	0.0	0.0	5	
9	164560	83	748.8	N/A	25.0	0.0%	0.0%	0.0	0.0	30	
7	181513	88	816.7	408.4	24.7	0.0%	0.0%	0.0	0.0	33	
5	172520	87	737.2	7.9	24.6	0.1%	0.0%	0.0	3.6	20	
3	165560	88	490.1	10.9	24.5	0.3%	0.0%	0.0	3.6	20	
7	173520	82	415.6	N/A	24.4	0.3%	0.0%	0.0	0.0	17	
4	163550	86	122.0	6.1	24.4	0.2%	0.1%	0.0	7.1	5	
5	164553	88	194.3	4.7	24.3	1.7%	0.0%	0.6	3.1	8	

Table II.12. Month/Block/Year records with the highest halibut bycatch rate (% of total catch by weight) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed		Total CPUEs		Bycatch Rates				
			Catch	MT	MT Per		(% by weight)		(numbers/mt)		
					Hour	Tow	Hal	Her	KC	TC	Tows
5	166563	84		1.1	0.6	N/A	75.1%	0.0%	0.9	241.8	<5
4	167560	83		0.6	0.3	N/A	59.7%	0.0%	0.0	0.0	<5
6	165553	83		23.4	4.9	N/A	41.5%	0.0%	0.0	19.1	<5
3	167563	82		0.3	0.2	N/A	38.3%	0.0%	0.0	40.0	<5
11	173573	87		15.6	2.3	N/A	33.6%	0.0%	0.1	0.0	<5
2	165550	88		18.0	4.1	N/A	30.0%	0.0%	0.0	4.4	<5
3	167560	85		1.3	0.9	N/A	29.9%	0.0%	0.0	286.9	<5
12	174573	82		2.6	0.7	N/A	29.4%	0.0%	5.4	11.2	<5
10	170570	85		8.4	1.7	N/A	28.6%	0.0%	1.0	4.5	<5
3	167553	81		0.4	0.1	N/A	28.2%	0.0%	0.0	705.0	<5
7	178610	84		1.5	0.5	N/A	24.7%	0.0%	4.0	48.0	<5
2	167560	81		0.4	0.1	N/A	23.6%	0.0%	0.0	1,532.5	<5
12	167560	83		3.0	0.8	N/A	22.9%	0.0%	0.0	248.7	<5
6	186520	83		7.2	1.0	N/A	21.3%	0.0%	2.8	1.9	<5
12	177590	83		4.5	0.4	N/A	20.3%	0.0%	4.4	6.9	<5
2	172560	83		9.0	1.6	N/A	20.1%	0.0%	9.3	27.1	<5
11	165553	84		1.8	0.3	N/A	19.4%	0.0%	0.0	12.2	<5
5	166570	84		2.5	0.8	N/A	19.2%	0.0%	1.2	27.2	<5
4	168553	83		1.4	0.2	N/A	18.0%	0.0%	5.7	47.1	<5
3	168550	88		24.4	5.4	N/A	17.2%	0.0%	0.0	1.3	<5
8	172520	81		1.0	0.9	N/A	17.0%	0.0%	0.0	0.0	<5
12	178600	83		26.1	0.3	1.9	16.8%	0.0%	3.3	11.5	14
12	175583	82		5.5	0.6	N/A	16.8%	0.0%	3.1	11.5	<5
3	166560	83		0.5	0.1	N/A	16.7%	0.0%	0.0	12.0	<5
4	167560	84		0.3	0.2	N/A	16.4%	0.0%	0.0	33.3	<5
8	167553	82		0.4	0.2	N/A	16.3%	2.5%	0.0	17.5	<5
2	168553	81		0.2	0.1	N/A	15.6%	0.0%	0.0	20.0	<5
8	181513	81		1.9	0.8	N/A	15.5%	0.0%	1.1	0.0	<5
12	169580	85		2.3	2.5	N/A	15.1%	0.0%	0.0	0.0	<5
4	173573	83		0.7	0.4	N/A	15.0%	0.0%	4.3	0.0	<5
12	168560	84		5.2	0.6	N/A	14.9%	0.2%	0.0	198.3	<5
3	169560	88		6.0	4.2	N/A	14.6%	0.0%	0.0	67.7	<5
6	162553	87		4.5	1.4	N/A	14.5%	0.4%	0.4	0.4	<5
3	179523	83		6.7	1.3	N/A	14.2%	0.0%	5.4	0.0	<5
7	170520	82		6.4	0.5	0.9	14.1%	0.0%	1.1	0.0	7
6	166543	83		1.8	0.2	0.4	14.1%	0.0%	2.2	8.3	5
4	169560	84		1.2	1.1	N/A	13.9%	0.0%	0.0	4.2	<5
10	170563	89		1.4	0.3	N/A	13.8%	2.2%	0.0	68.4	<5
10	170560	87		2.0	0.5	N/A	13.8%	0.0%	0.0	238.5	<5
1	177590	82		4.0	0.8	N/A	13.6%	0.0%	33.0	33.0	<5
10	180520	84		9.2	0.6	N/A	13.4%	0.0%	4.0	0.2	<5
11	168563	83		0.8	0.2	N/A	13.3%	0.0%	3.8	220.0	<5
12	168563	86		4.0	2.7	N/A	13.3%	0.0%	0.0	21.8	<5

Table II.13. Month/Block/Year records with the highest herring bycatch rate (% of total catch by weight) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed Catch		Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)	
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
10	167560	85	6.0	2.6	N/A	0.0%	64.3%	0.0	0.3	<5
10	168560	85	79.2	5.6	13.2	0.1%	61.7%	0.0	0.6	6
9	177593	83	7.4	3.3	N/A	0.0%	57.6%	0.0	0.0	<5
10	176593	85	0.8	0.7	N/A	0.0%	52.5%	0.0	0.0	<5
9	176590	85	35.5	11.2	N/A	0.0%	51.3%	0.0	0.1	<5
6	160560	88	15.8	6.6	N/A	0.4%	49.0%	0.4	0.1	<5
6	161560	88	77.6	11.5	N/A	0.3%	48.6%	0.4	0.0	<5
9	166550	84	39.8	15.4	N/A	0.0%	48.4%	0.0	0.1	<5
10	178593	82	131.5	0.7	4.5	0.0%	35.8%	1.5	9.2	29
6	162553	85	67.2	6.1	N/A	0.3%	31.4%	0.8	0.2	<5
10	176583	83	92.3	0.3	1.6	0.4%	31.3%	0.5	8.3	56
9	165553	82	197.4	8.7	16.5	0.1%	30.7%	0.0	0.3	12
6	160563	87	47.6	11.7	N/A	2.4%	28.8%	0.0	0.0	<5
6	160560	87	58.9	5.8	N/A	1.0%	27.4%	0.1	0.0	<5
9	175583	83	12.7	0.2	1.2	0.9%	26.8%	0.7	37.2	11
9	166560	82	20.3	3.4	N/A	1.2%	20.8%	0.0	1.3	<5
8	164573	84	68.8	4.6	N/A	0.0%	20.8%	0.2	0.0	<5
10	177590	83	155.7	0.4	2.5	0.4%	18.2%	0.8	11.3	63
11	177583	82	37.3	0.9	4.1	0.1%	17.9%	2.1	4.2	9
6	160560	85	79.1	5.2	N/A	0.5%	17.5%	3.5	0.3	<5
6	160563	88	9.7	3.5	N/A	0.1%	16.5%	0.4	0.0	<5
9	178593	85	39.3	1.2	5.6	0.2%	14.7%	1.1	15.4	7
7	161560	85	51.0	2.8	N/A	1.1%	12.8%	1.6	0.8	<5
8	164550	86	171.3	4.2	19.0	0.6%	12.3%	1.0	0.1	9
9	168560	87	84.4	5.2	N/A	0.8%	10.5%	0.0	1.5	<5
5	170580	86	2.1	2.1	N/A	0.0%	10.0%	0.0	1,487.6	<5
6	161560	85	248.3	5.9	22.6	0.7%	8.7%	0.3	0.1	11
11	178600	82	72.9	0.5	3.5	1.8%	8.0%	2.1	13.6	21
4	164563	82	8.5	1.4	N/A	1.3%	7.5%	0.1	1.2	<5
10	177583	83	68.4	0.2	1.4	0.4%	6.3%	2.3	8.8	49
10	178593	83	131.3	0.3	2.0	0.1%	5.7%	4.4	10.0	66
6	161560	87	123.4	6.1	13.7	0.4%	5.5%	0.1	0.0	9
7	161560	89	119.0	5.8	17.0	0.2%	5.3%	3.4	0.8	7
9	164550	88	92.0	4.2	N/A	0.7%	5.2%	0.0	11.3	<5
4	165563	82	5.6	1.3	N/A	6.3%	5.0%	0.9	4.6	<5
11	178593	85	631.8	1.9	10.5	1.4%	5.0%	0.9	2.3	60
7	160563	85	58.8	3.0	11.8	1.4%	4.9%	6.1	0.8	5
6	164550	89	26.8	3.1	N/A	0.9%	4.6%	0.3	20.2	<5
3	175583	81	15.2	1.7	N/A	0.3%	4.5%	0.3	79.6	<5
10	178593	85	34.0	0.8	4.3	2.7%	4.3%	2.0	8.8	8
5	166570	82	5.7	1.3	N/A	0.6%	3.9%	1.6	33.9	<5
10	177593	87	259.7	1.3	7.0	2.0%	3.4%	0.1	2.3	37
5	165570	82	3.1	1.7	N/A	2.2%	2.9%	12.6	1.3	<5

Table II.14. Month/Block/Year records with the highest king crab bycatch rate (number of animals per metric ton of total catch) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed		Total CPUEs		Bycatch Rates			
			Catch	MT	MT Per		(% by weight)		(numbers/mt)	
					Hour	Tow	Hal	Her	KC	TC
Mo	Block	Yr	Catch	MT	Hour	Tow	Hal	Her	KC	Tows
4	187520	83	0.2	0.2	N/A	1.3%	0.0%	325.0	0.0	<5
3	162553	85	4.3	N/A	N/A	0.1%	0.0%	177.9	19.3	<5
8	162563	85	19.2	4.4	N/A	0.6%	0.0%	174.6	15.3	<5
4	163553	85	1.8	0.6	N/A	1.4%	0.0%	119.4	5.6	<5
7	178593	81	22.4	0.7	3.2	0.3%	0.0%	100.9	73.0	7
7	160570	83	78.7	N/A	15.7	0.2%	0.0%	88.3	1.3	5
9	178580	82	1.6	0.1	N/A	0.0%	0.0%	83.8	40.6	<5
5	162563	85	9.5	2.4	N/A	13.0%	0.0%	80.5	2.5	<5
1	179510	82	0.4	0.3	N/A	1.7%	0.0%	77.5	0.0	<5
5	176583	81	16.2	0.5	2.3	0.1%	0.0%	70.3	93.4	7
7	183520	81	2.0	0.5	N/A	1.8%	0.0%	64.0	0.0	<5
7	178593	83	1.6	0.3	N/A	4.3%	0.0%	62.5	0.0	<5
8	161563	85	3.0	0.8	N/A	1.6%	0.0%	59.3	16.3	<5
7	187523	81	11.2	0.5	N/A	0.8%	0.0%	58.4	0.5	<5
11	178583	82	6.3	0.3	N/A	1.0%	0.0%	56.0	25.1	<5
6	186520	81	0.4	0.2	N/A	2.7%	0.0%	55.0	15.0	<5
5	160560	81	33.5	N/A	N/A	3.3%	0.0%	52.4	39.7	<5
8	161560	85	22.5	2.3	N/A	0.2%	0.1%	44.8	60.5	<5
6	177590	82	18.4	0.4	2.0	1.1%	0.0%	44.0	9.3	9
6	167550	84	3.2	0.5	N/A	4.1%	0.0%	40.3	4.1	<5
6	162560	85	17.1	1.8	N/A	0.6%	0.3%	39.9	2.4	<5
8	169563	87	8.4	1.3	N/A	2.9%	0.0%	38.5	373.1	<5
12	178600	82	11.4	0.5	N/A	1.8%	0.0%	38.2	190.4	<5
5	162560	85	185.4	5.1	20.6	0.9%	0.0%	37.1	9.7	9
12	178590	82	16.7	0.8	N/A	0.8%	0.0%	37.1	28.4	<5
4	178593	83	39.6	0.6	2.5	3.3%	0.0%	36.1	25.2	16
4	178603	81	15.0	2.5	N/A	5.5%	0.0%	34.1	1.9	<5
4	159563	81	20.2	5.5	N/A	0.2%	0.0%	33.9	8.5	<5
6	171560	84	10.7	0.4	2.1	1.4%	0.0%	33.6	25.5	5
1	177590	82	4.0	0.8	N/A	13.6%	0.0%	33.0	33.0	<5
4	161560	84	35.2	8.4	N/A	0.1%	0.0%	32.7	14.5	<5
6	161573	83	48.7	4.6	N/A	0.6%	2.0%	31.3	1.6	<5
6	178583	81	10.9	0.6	N/A	0.1%	0.0%	30.2	32.3	<5
10	185520	82	1.4	0.3	N/A	1.8%	0.0%	30.0	0.0	<5
5	161570	85	8.2	2.1	N/A	2.2%	0.0%	29.4	4.4	<5
10	179600	83	22.6	0.3	1.9	0.3%	0.0%	29.2	5.1	12
8	180520	83	8.4	1.7	N/A	0.0%	0.0%	28.6	0.1	<5
9	178590	81	17.9	0.7	3.6	0.2%	0.0%	27.9	5.0	5
9	177600	84	3.6	0.6	N/A	0.0%	0.0%	26.9	23.9	<5
7	187520	81	2.9	0.3	N/A	1.1%	0.0%	26.9	0.0	<5
6	180540	83	1.3	0.2	N/A	0.5%	0.0%	26.2	0.0	<5
9	160570	85	5.5	0.9	N/A	4.8%	0.0%	26.0	27.8	<5
9	187530	82	1.7	0.2	N/A	0.0%	0.0%	25.9	2.4	<5

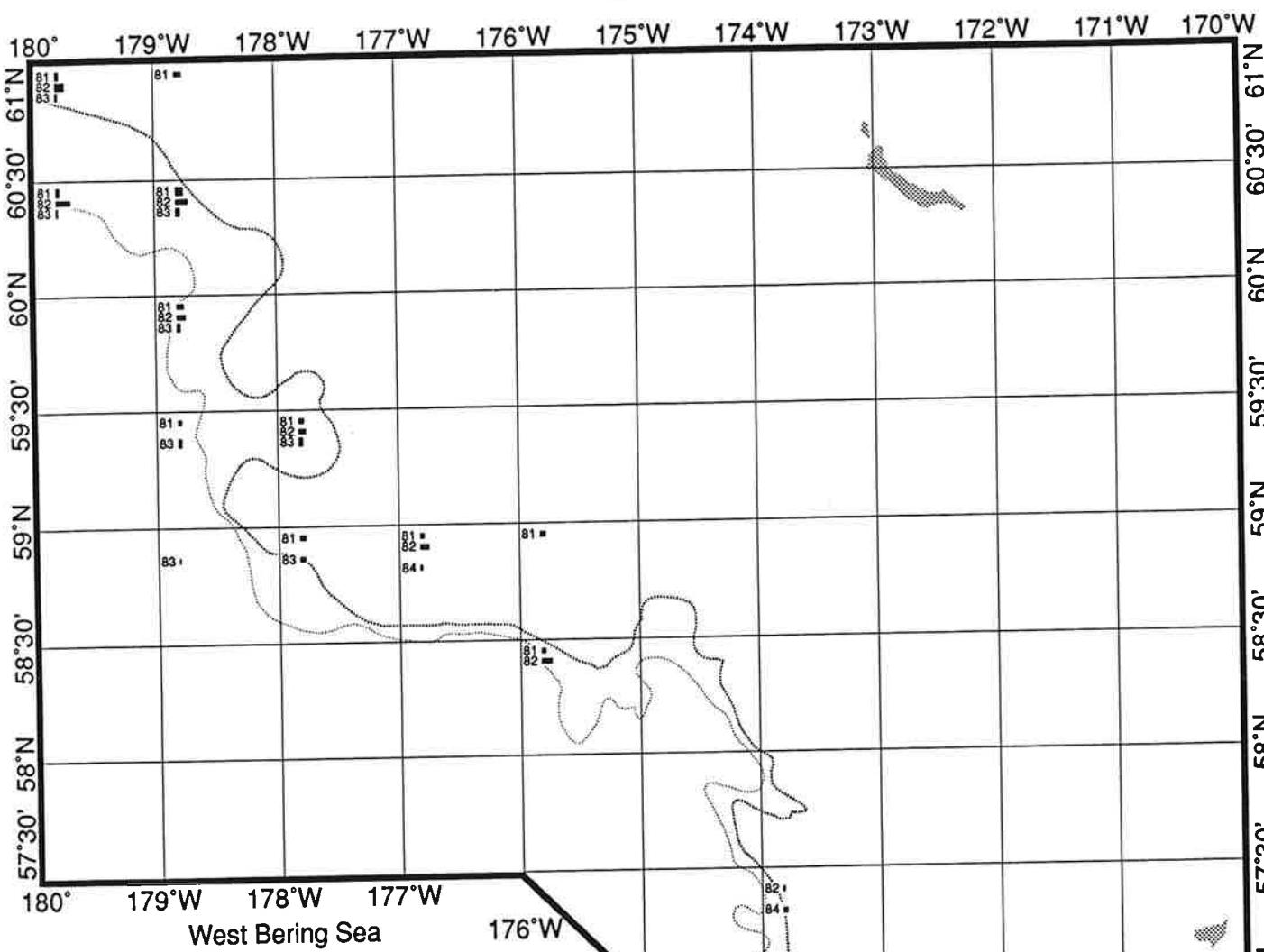
Table II.15. Month/Block/Year records with the highest Tanner crab bycatch rate (number of animals per metric ton of total catch) in the BSAI Miscellaneous Species trawl fishery.

Mo	Block	Yr	Observed Catch		Total CPUEs		Bycatch Rates			
			MT	Hour	MT Per Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
4	167580	87	9.4	1.2	N/A	0.0%	0.0%	0.2	3,269.5	<5
10	169580	88	5.4	0.8	N/A	0.3%	0.0%	0.0	2,545.6	<5
2	167560	81	0.4	0.1	N/A	23.6%	0.0%	0.0	1,532.5	<5
5	170580	86	2.1	2.1	N/A	0.0%	10.0%	0.0	1,487.6	<5
2	167570	81	0.2	0.1	N/A	0.0%	0.0%	0.0	1,045.0	<5
2	170560	81	1.3	0.7	N/A	0.5%	0.0%	0.0	852.3	<5
3	167553	81	0.4	0.1	N/A	28.2%	0.0%	0.0	705.0	<5
4	169580	87	4.0	1.1	N/A	0.0%	0.0%	0.5	672.0	<5
3	172560	81	0.3	0.3	N/A	4.1%	0.0%	0.0	606.7	<5
10	168573	86	7.0	2.6	N/A	0.0%	0.7%	0.1	581.9	<5
5	166570	87	13.3	N/A	N/A	0.7%	0.0%	0.0	576.2	<5
6	177610	84	0.3	0.1	N/A	0.0%	0.0%	3.3	570.0	<5
5	168573	87	226.5	4.2	22.7	0.4%	0.3%	0.1	564.0	10
5	168580	87	243.2	3.6	17.4	0.3%	0.1%	0.0	541.9	14
5	165580	84	0.3	1.2	N/A	5.3%	0.0%	0.0	516.7	<5
8	171563	82	1.0	0.1	N/A	3.3%	0.0%	7.0	490.0	<5
5	167573	87	261.8	2.9	14.5	0.8%	0.1%	0.0	456.9	18
7	170580	87	7.6	1.0	N/A	0.0%	0.0%	0.1	456.7	<5
6	168583	86	10.1	1.7	N/A	1.5%	0.0%	0.1	433.9	<5
4	168580	87	16.6	2.4	N/A	0.2%	0.1%	0.0	419.4	<5
9	172603	89	44.2	6.5	N/A	0.8%	0.0%	0.7	398.2	<5
8	169563	87	8.4	1.3	N/A	2.9%	0.0%	38.5	373.1	<5
10	169573	89	36.2	2.3	N/A	0.0%	0.0%	0.1	364.7	<5
7	173603	87	15.9	2.4	N/A	0.2%	0.0%	1.8	351.0	<5
7	172603	88	4.2	N/A	N/A	0.0%	0.0%	0.0	333.6	<5
12	170580	84	3.3	1.1	N/A	4.9%	0.0%	0.6	311.8	<5
3	167560	85	1.3	0.9	N/A	29.9%	0.0%	0.0	286.9	<5
11	176583	81	1.3	0.2	N/A	0.0%	0.0%	0.8	284.6	<5
7	171580	87	21.3	3.0	N/A	0.6%	0.0%	0.0	276.7	<5
6	167553	85	1.0	0.3	N/A	0.0%	0.0%	1.0	274.0	<5
6	167573	86	256.9	2.9	16.1	0.5%	0.1%	0.0	273.3	16
10	173593	89	39.0	N/A	N/A	0.1%	0.1%	2.6	266.7	<5
4	166580	87	23.6	6.4	N/A	0.0%	0.0%	0.0	266.3	<5
11	169573	87	16.2	1.6	N/A	2.4%	0.0%	3.8	264.4	<5
8	172560	82	2.4	0.3	N/A	0.0%	0.0%	3.3	263.3	<5
5	167580	87	275.3	3.4	14.5	0.5%	0.2%	0.1	263.1	19
4	166570	83	0.1	0.1	N/A	0.0%	0.0%	0.0	260.0	<5
4	165580	87	6.7	1.8	N/A	0.0%	0.0%	0.0	250.0	<5
12	167560	83	3.0	0.8	N/A	22.9%	0.0%	0.9	241.8	<5
5	166563	84	1.1	0.6	N/A	75.1%	0.0%	0.9	241.8	<5
10	170560	87	2.0	0.5	N/A	13.8%	0.0%	0.0	238.5	<5
6	167573	87	147.5	3.8	18.4	0.3%	0.0%	0.0	232.1	8
11	168563	83	0.8	0.2	N/A	13.3%	0.0%	3.8	220.0	<5

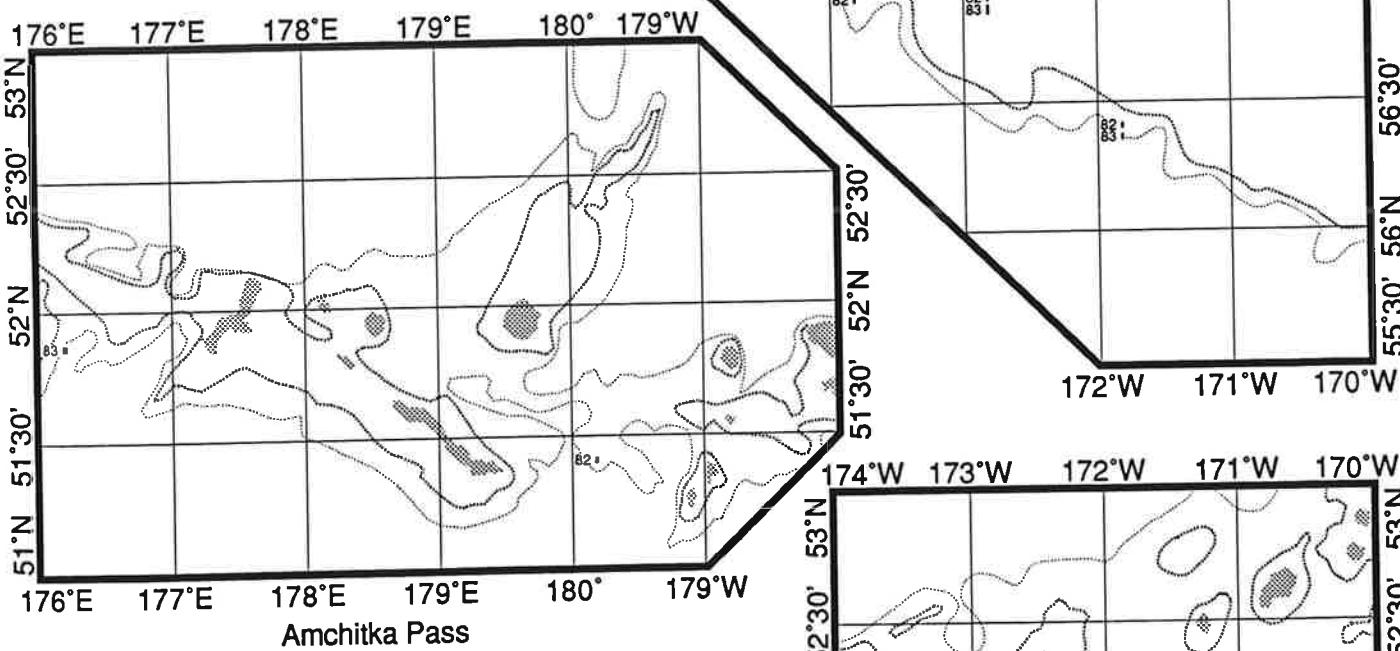
SECTION III

CATCH PER UNIT EFFORT CHARTS

III-2



03-16-1991 12:12:08

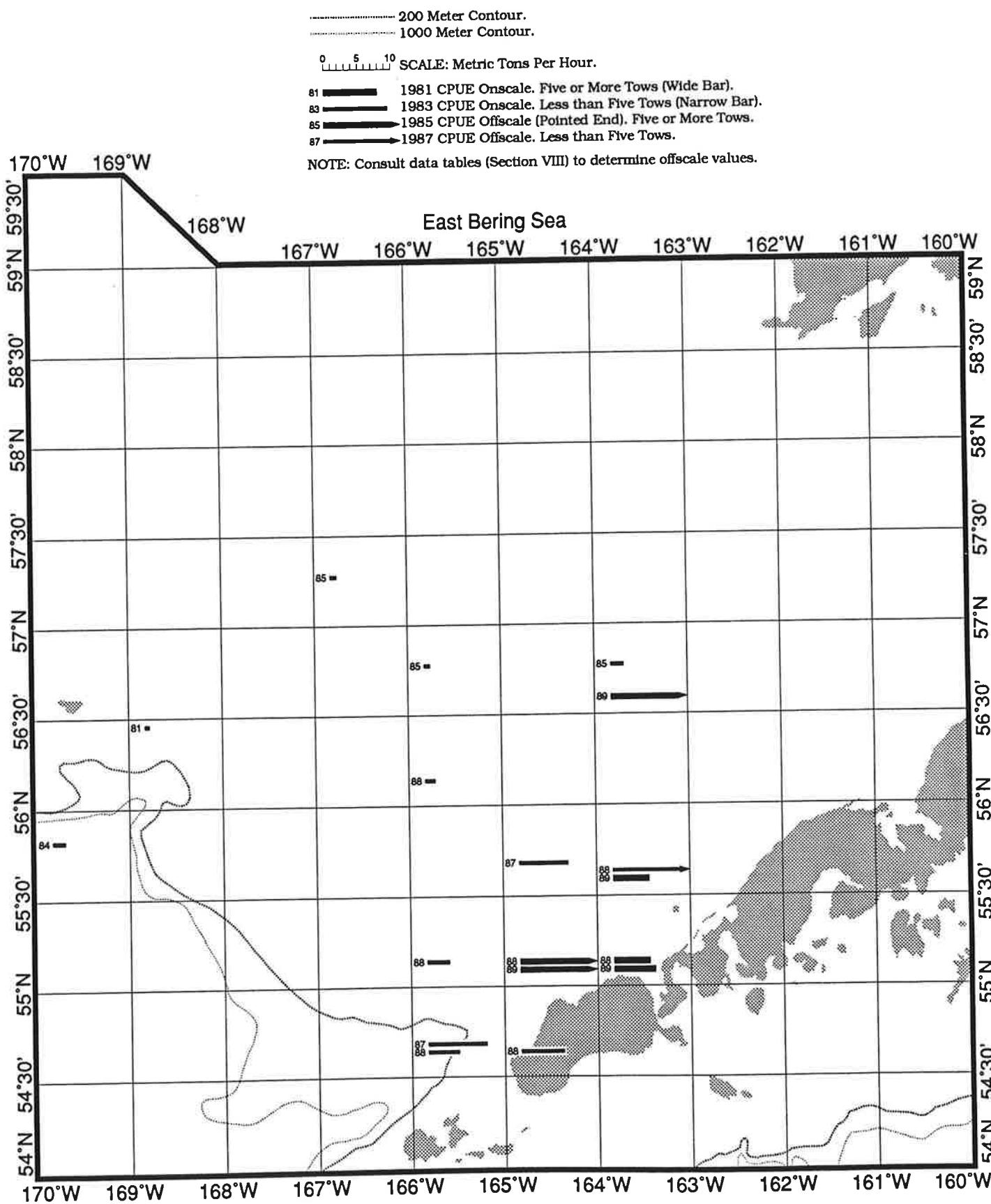


**January
MISCELLANEOUS SPECIES
Catch Per Unit Effort**

Seguam Pass

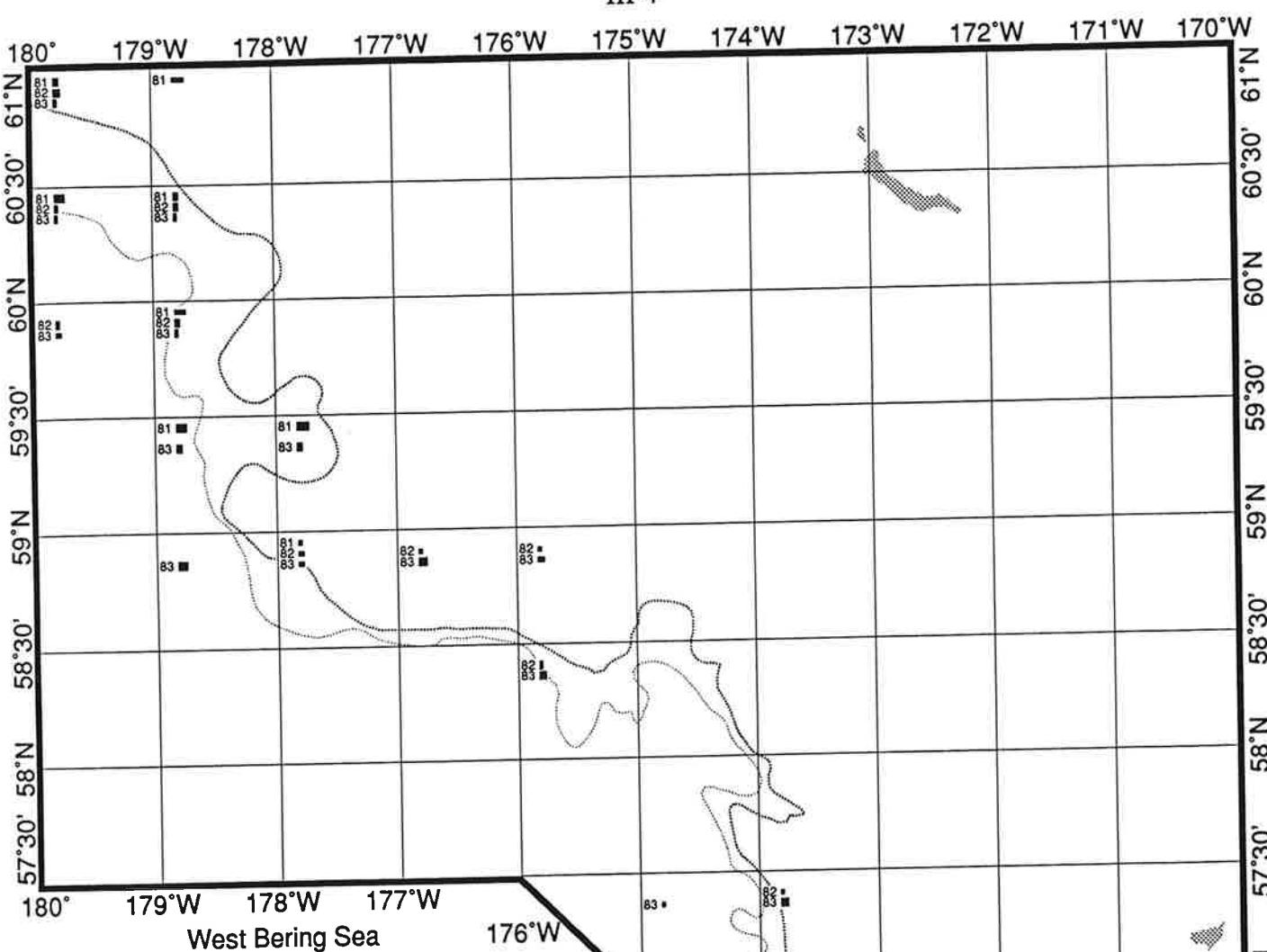
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

January
MISCELLANEOUS SPECIES
Catch Per Unit Effort

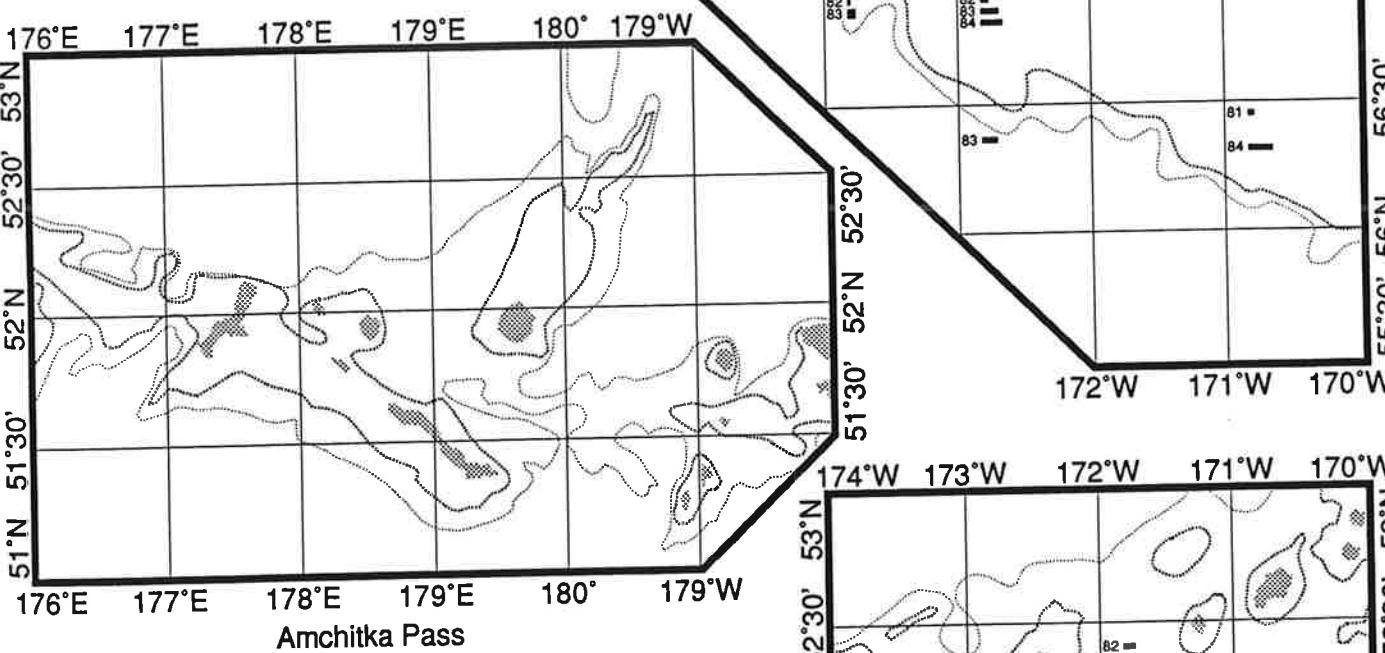


IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

III-4



03-16-1991 12:12:08

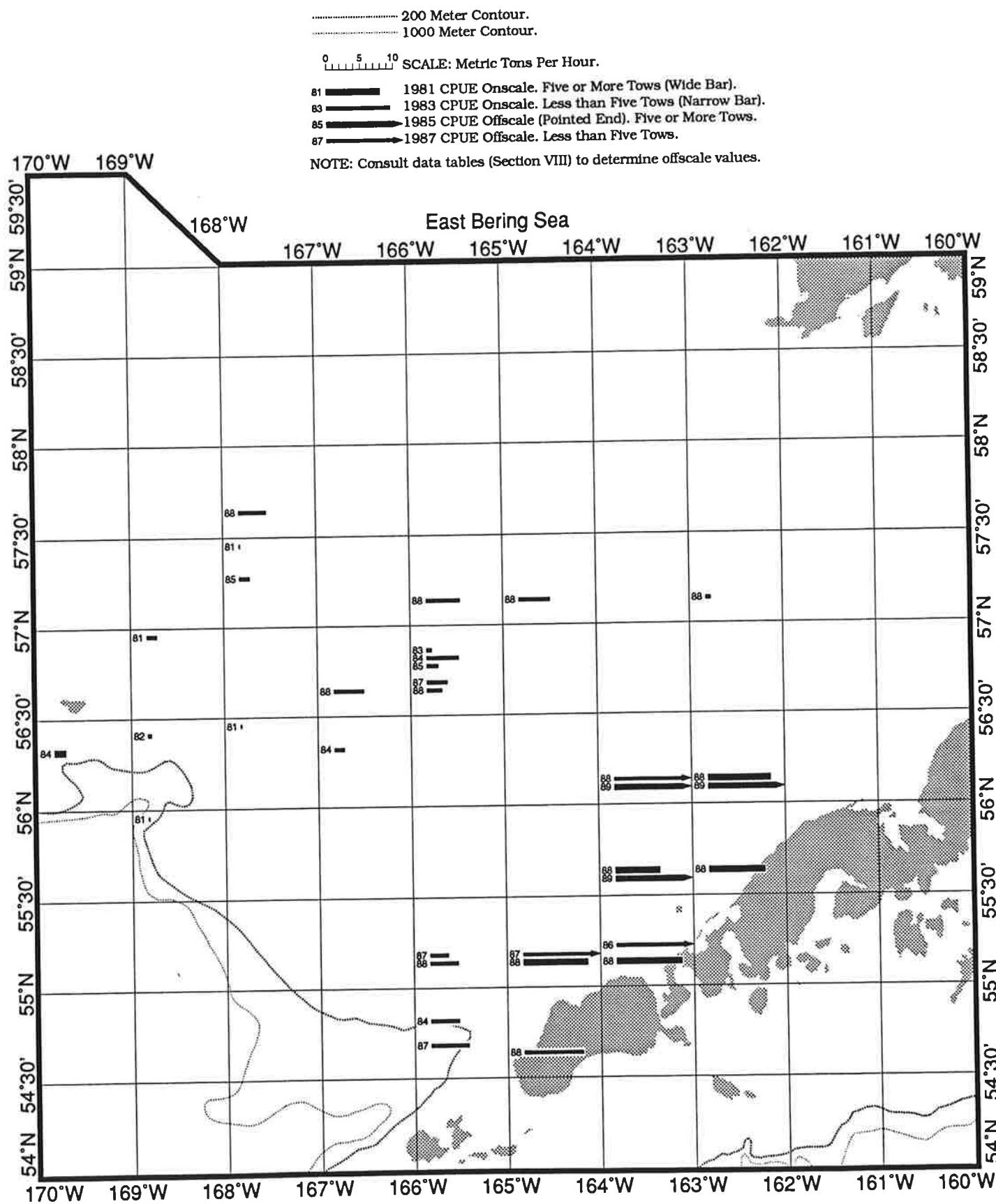


**February MISCELLANEOUS SPECIES
Catch Per Unit Effort**

Seguam Pass

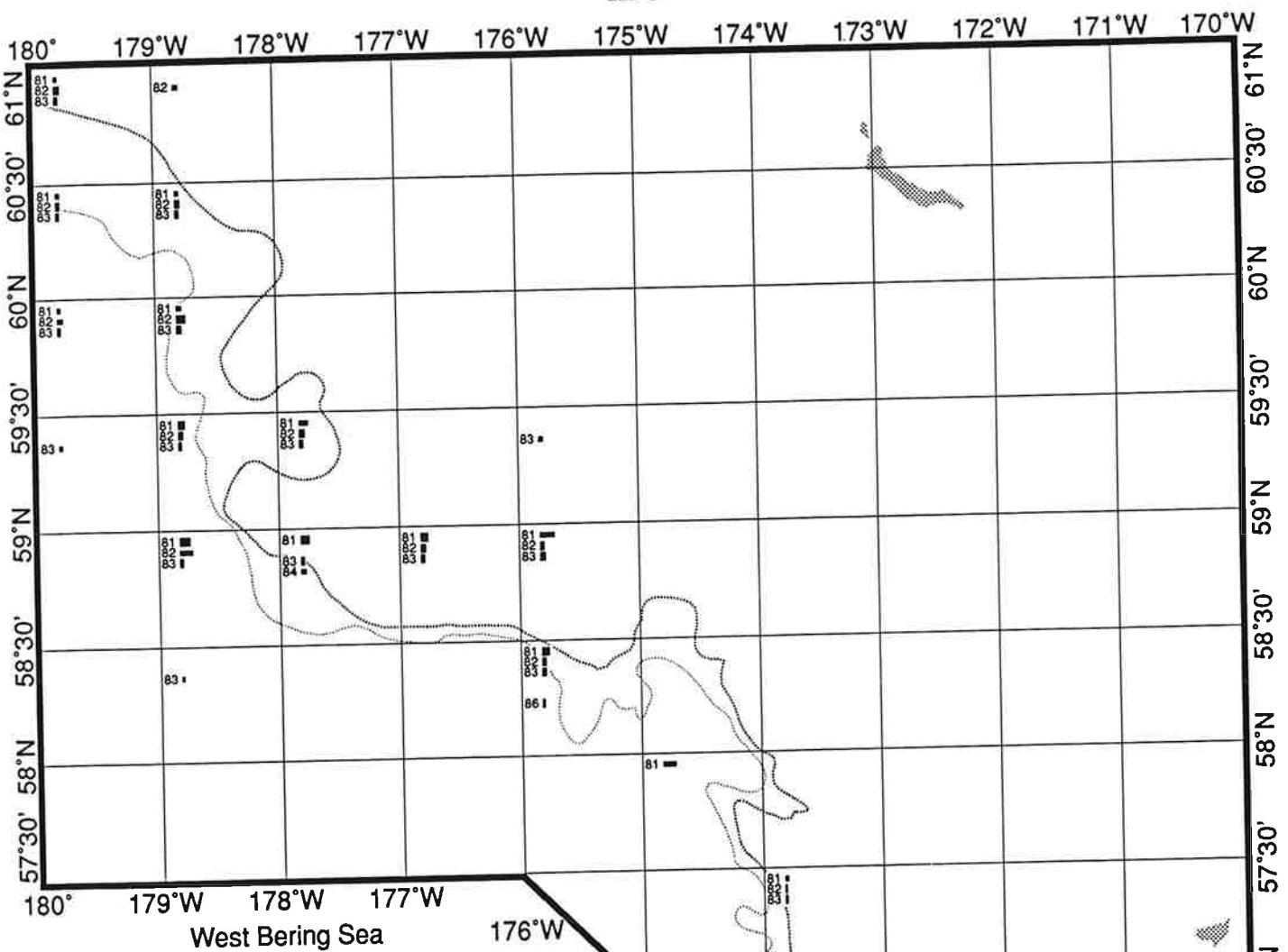
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

February
MISCELLANEOUS SPECIES
Catch Per Unit Effort

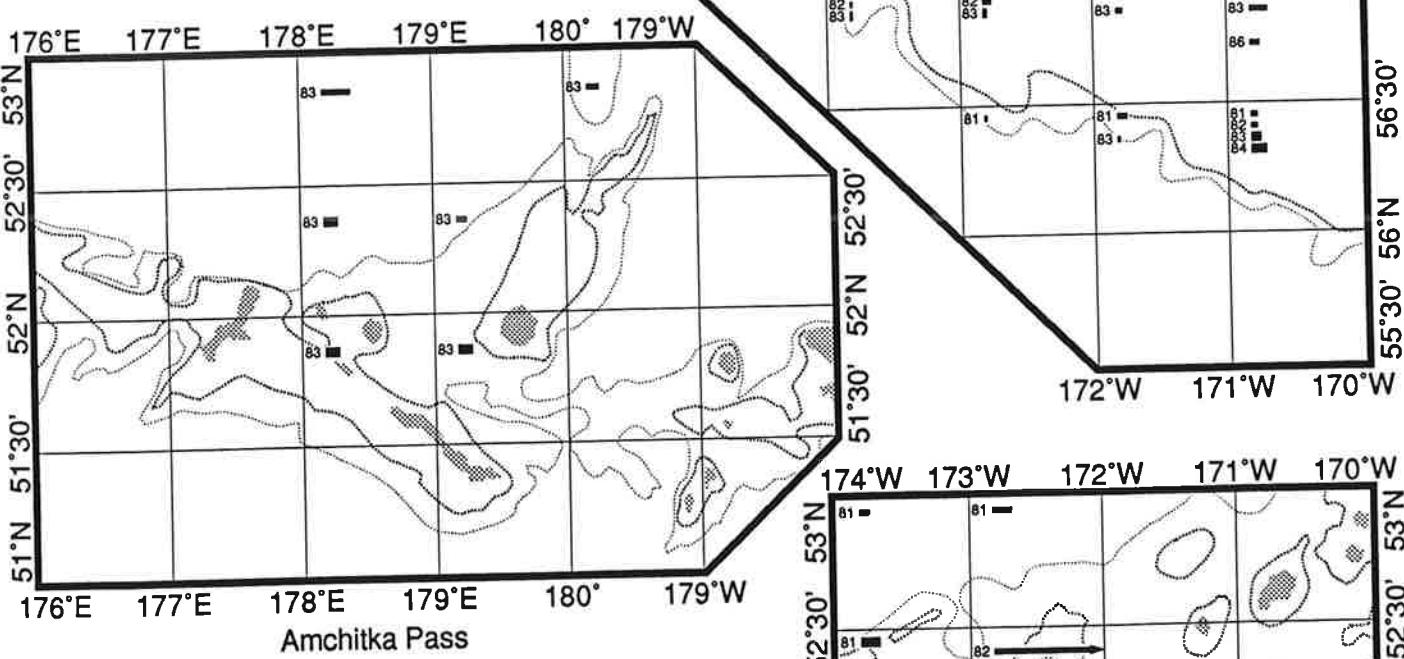


IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

III-6



03-16-1991 12:12:08

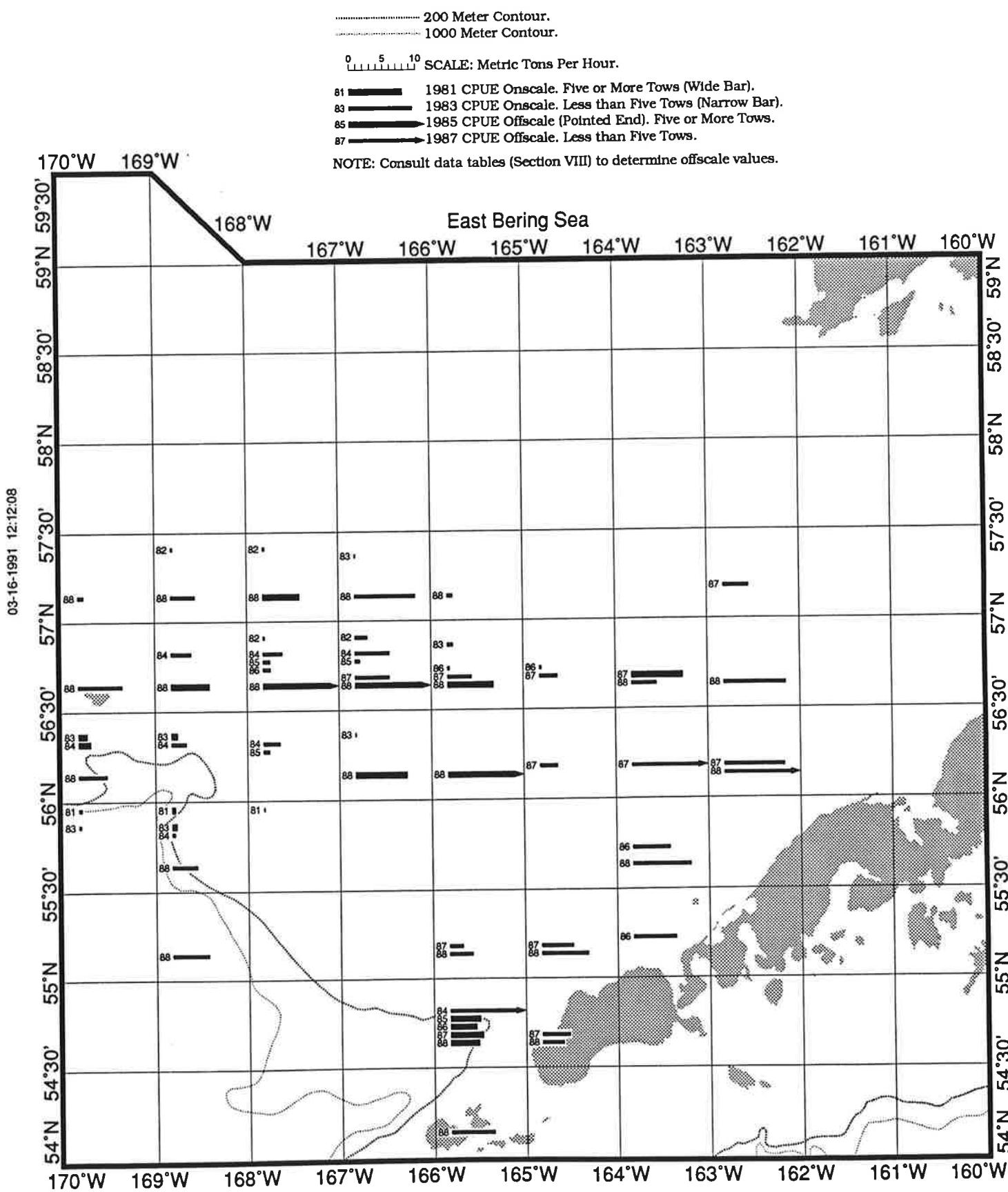


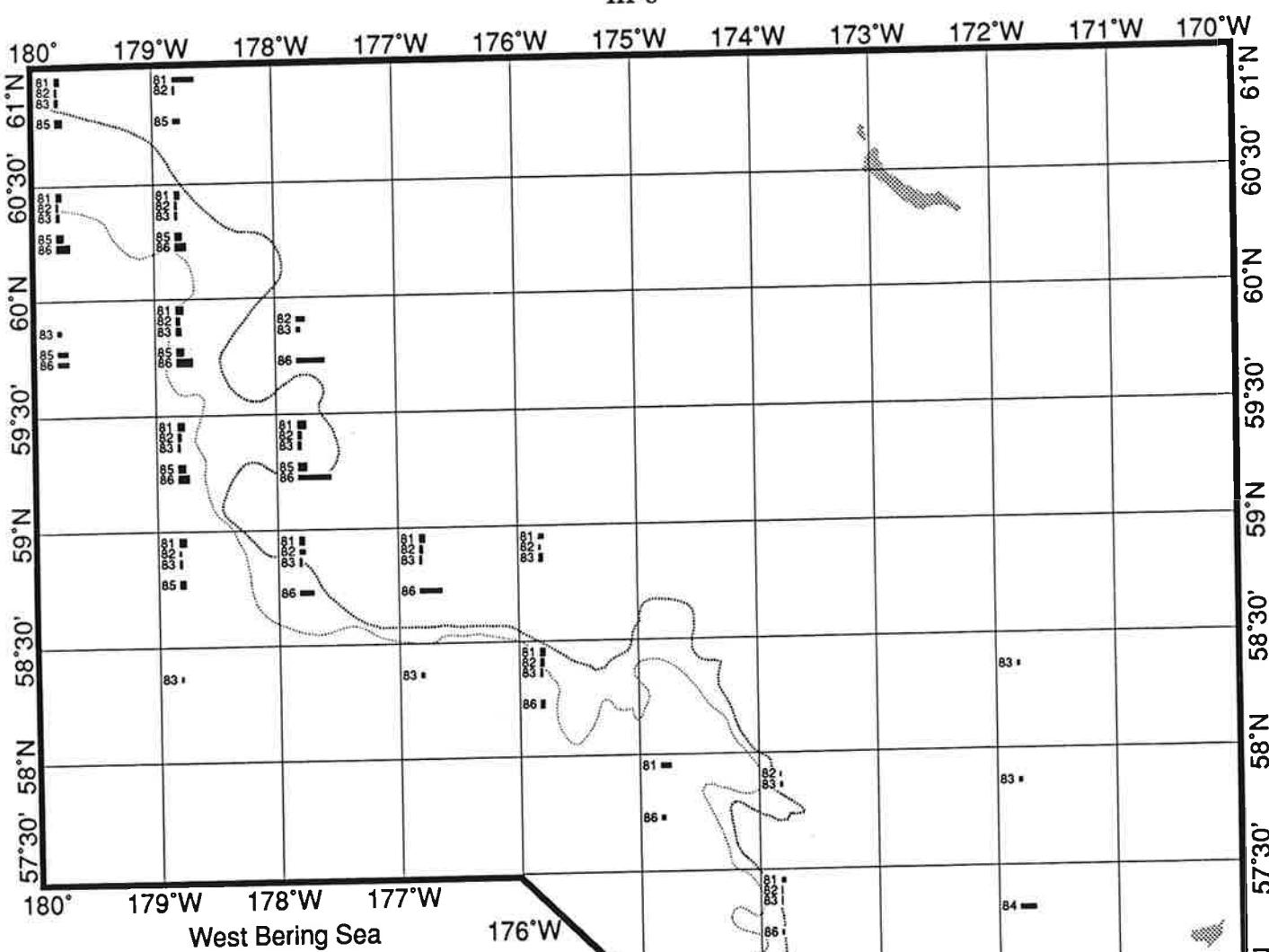
**March
MISCELLANEOUS SPECIES
Catch Per Unit Effort**

Seguam Pass

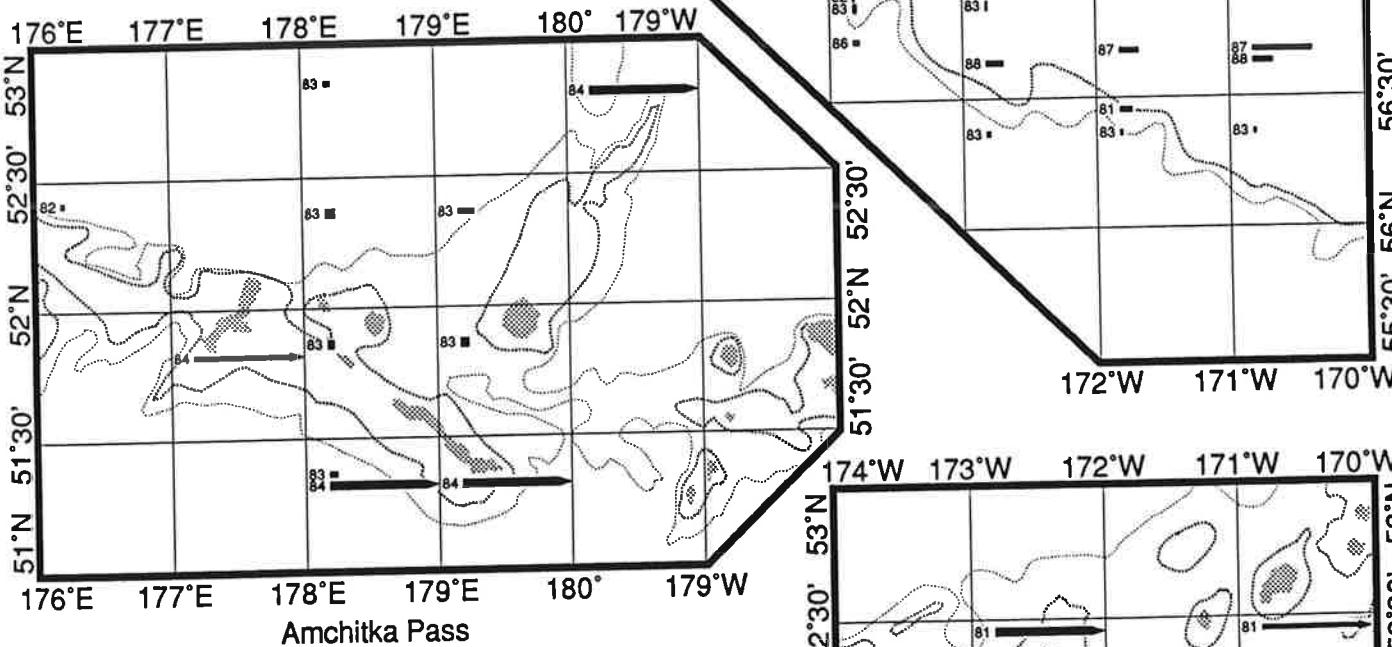
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

March
MISCELLANEOUS SPECIES
Catch Per Unit Effort





03-16-1991 12:12:08

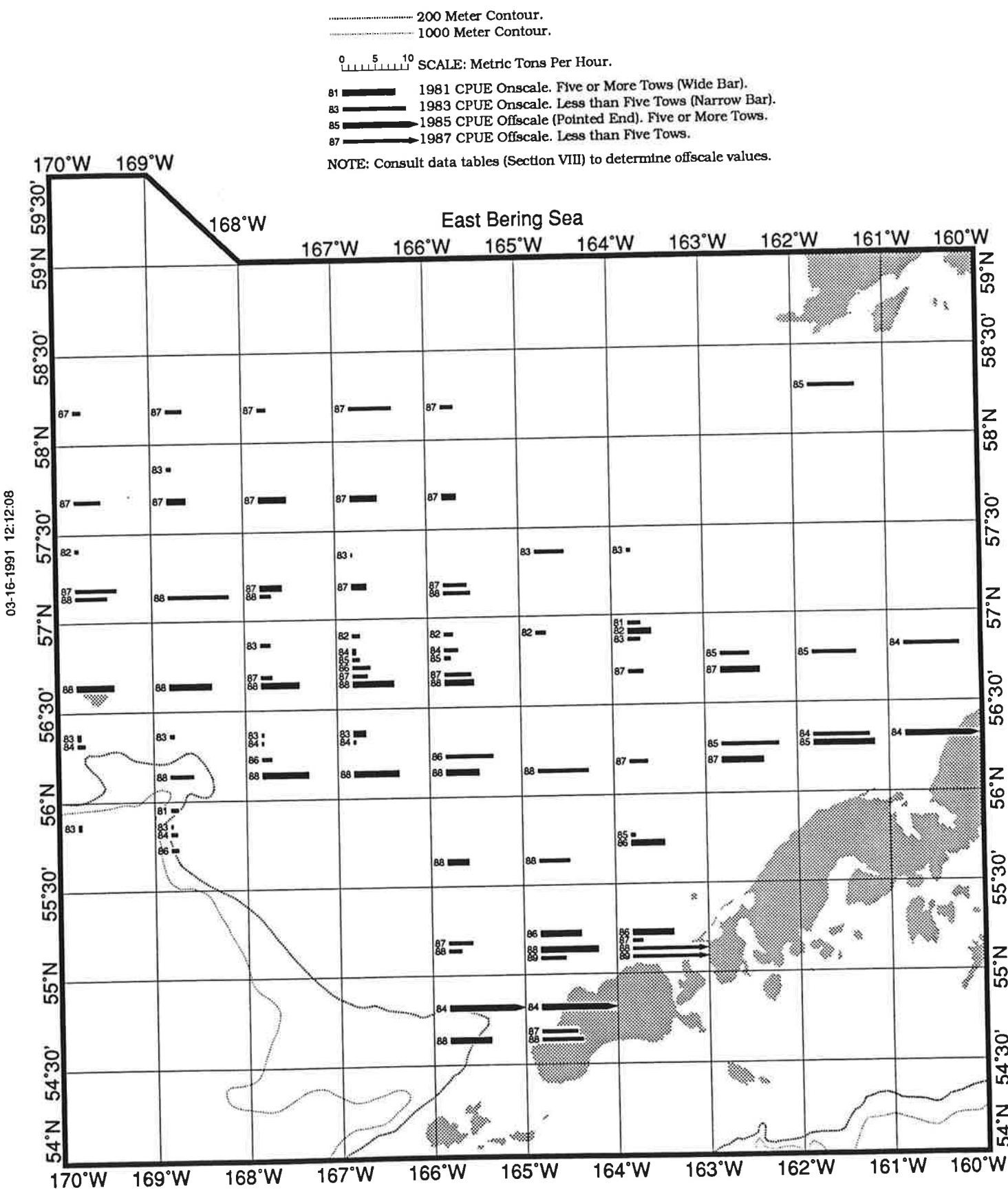


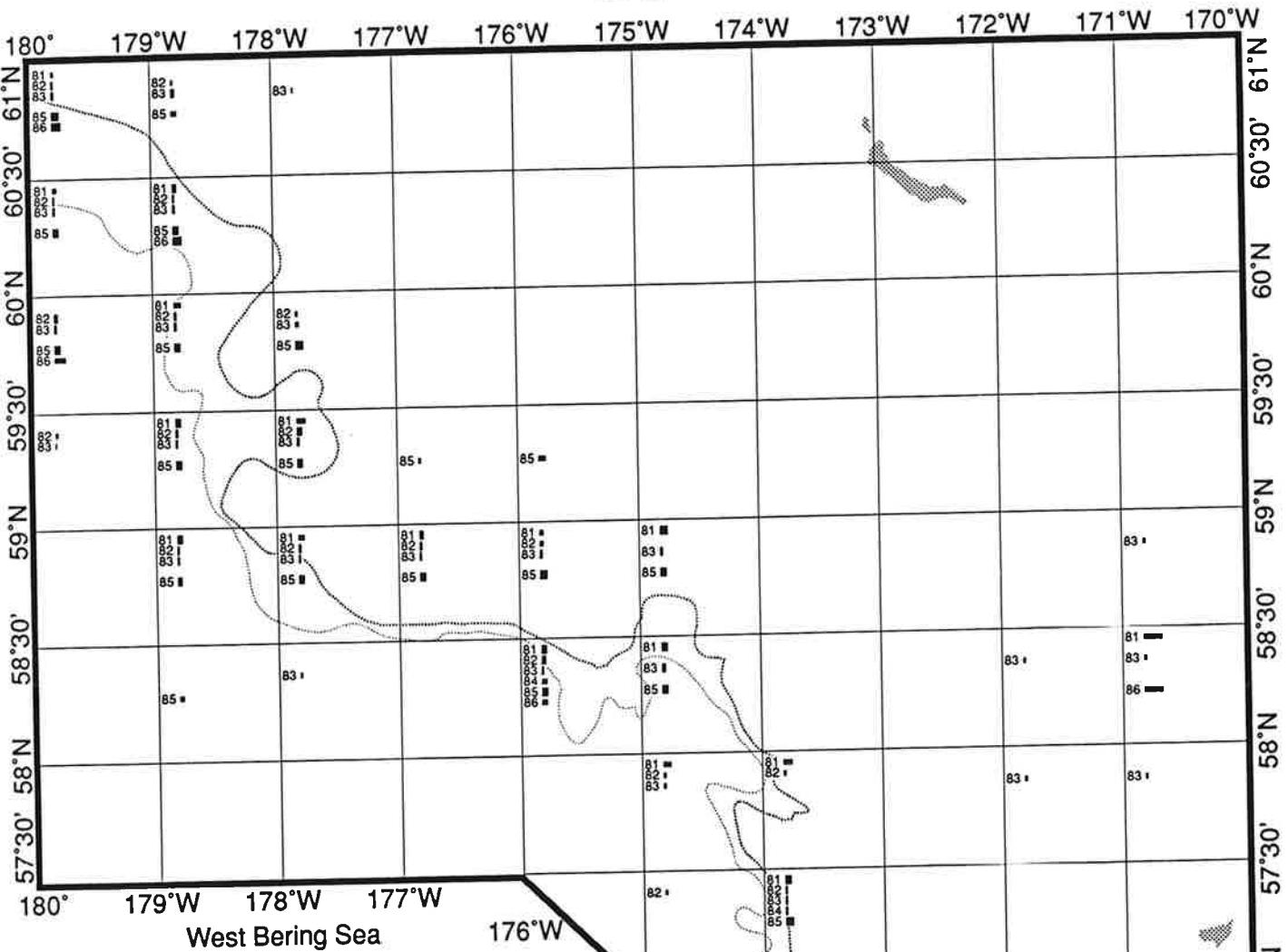
April
MISCELLANEOUS SPECIES
Catch Per Unit Effort

Seguam Pass

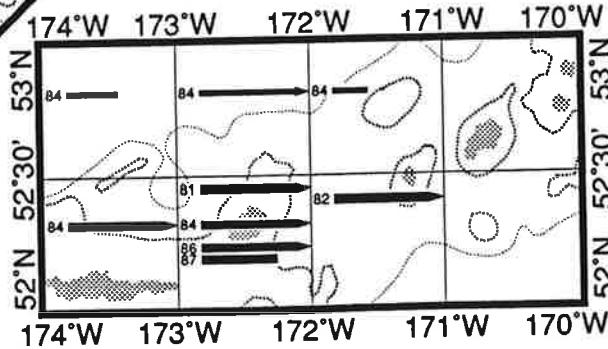
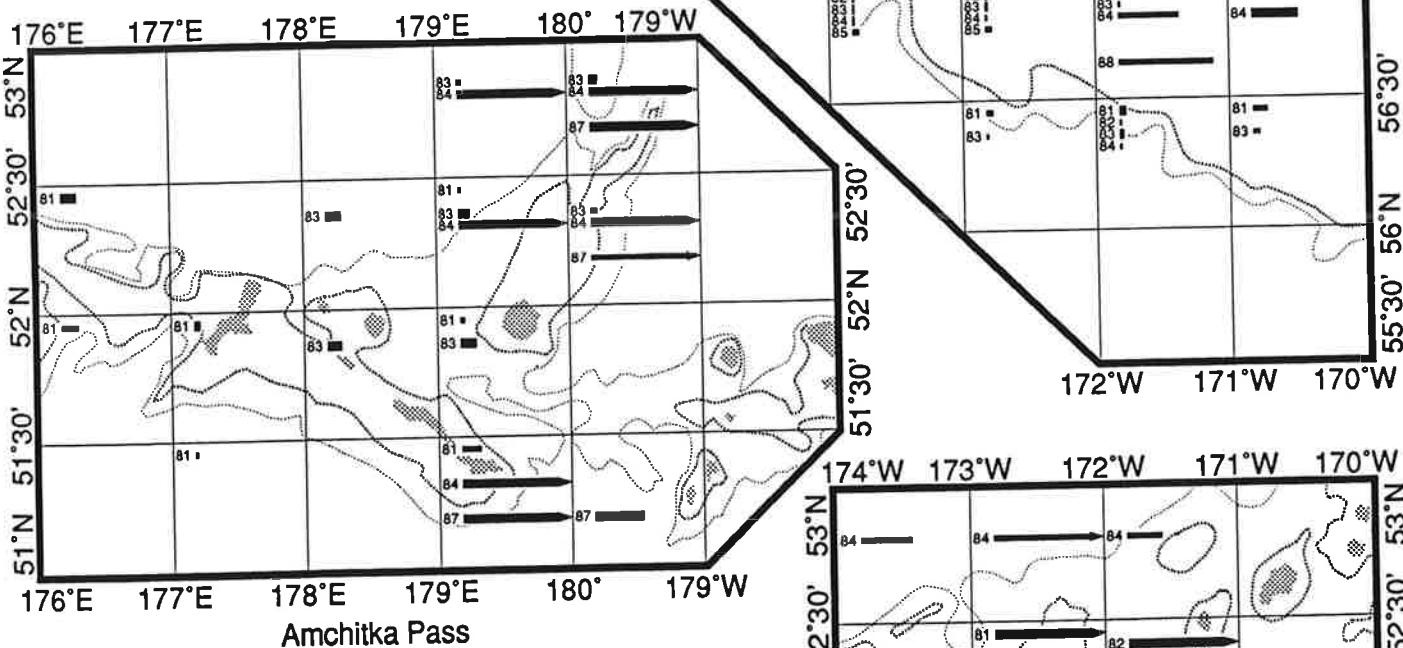
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

April
MISCELLANEOUS SPECIES
Catch Per Unit Effort





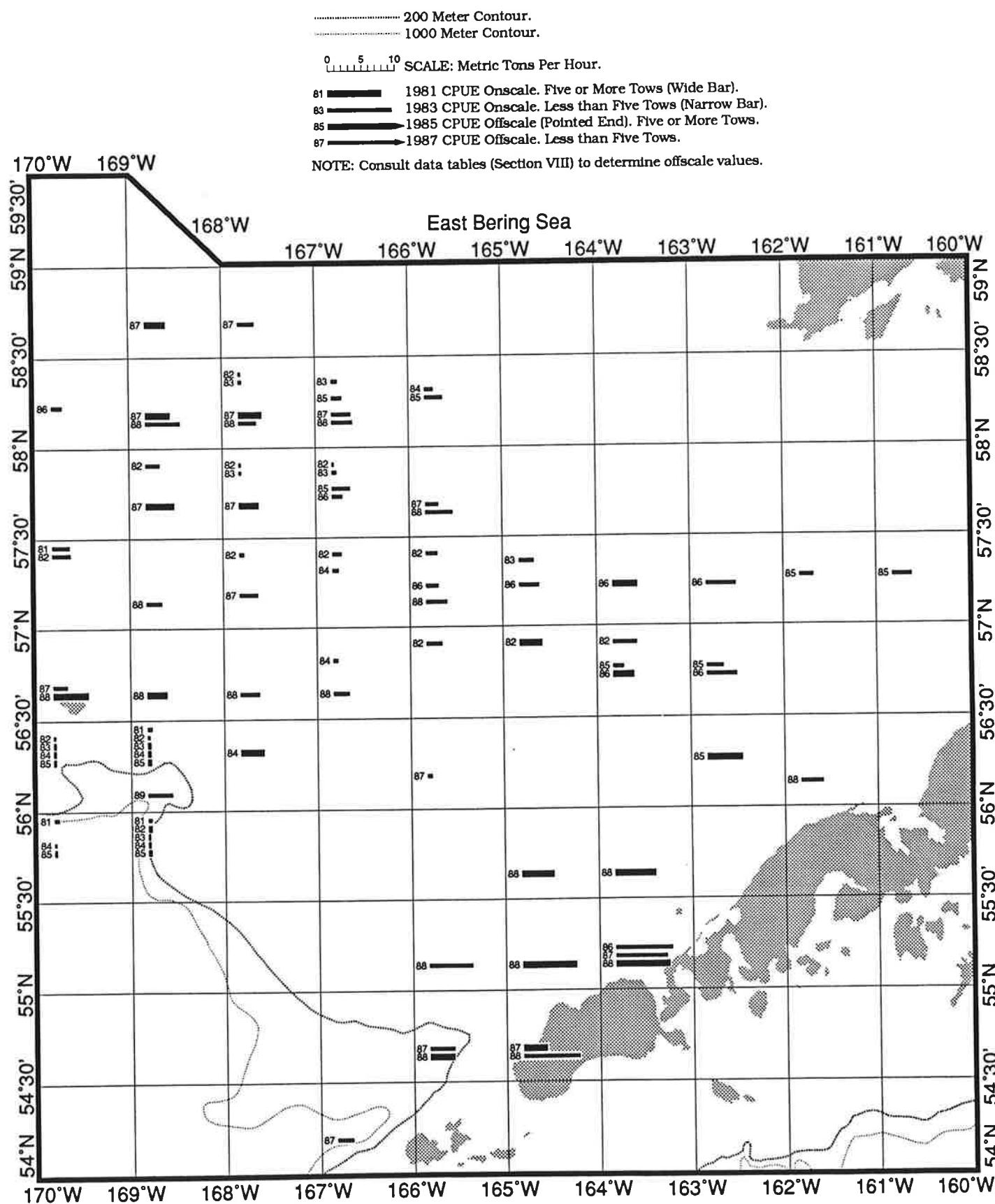
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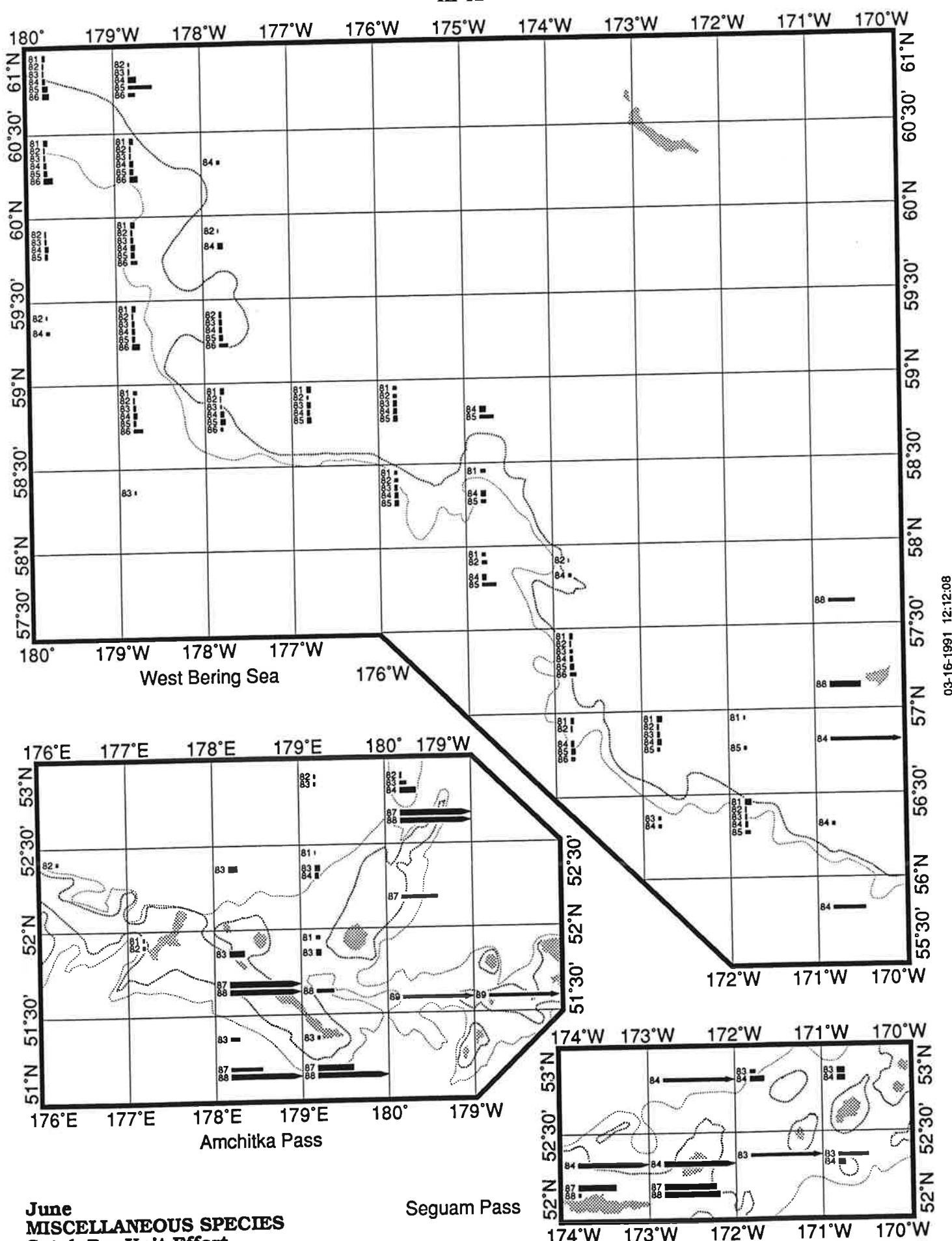


May
MISCELLANEOUS SPECIES
Catch Per Unit Effort

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

May
MISCELLANEOUS SPECIES
Catch Per Unit Effort





June

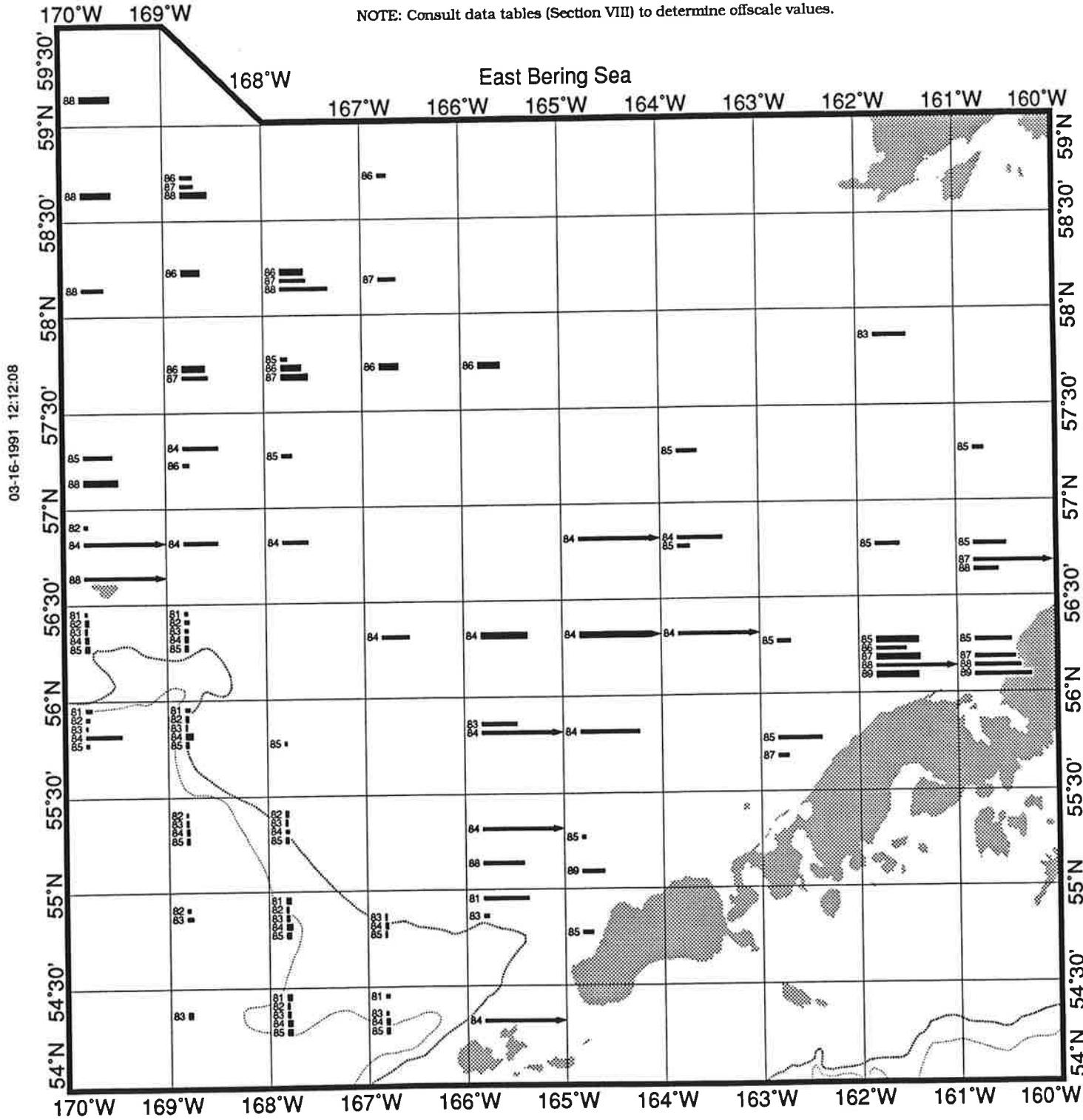
MISCELLANEOUS SPECIES Catch Per Unit Effort

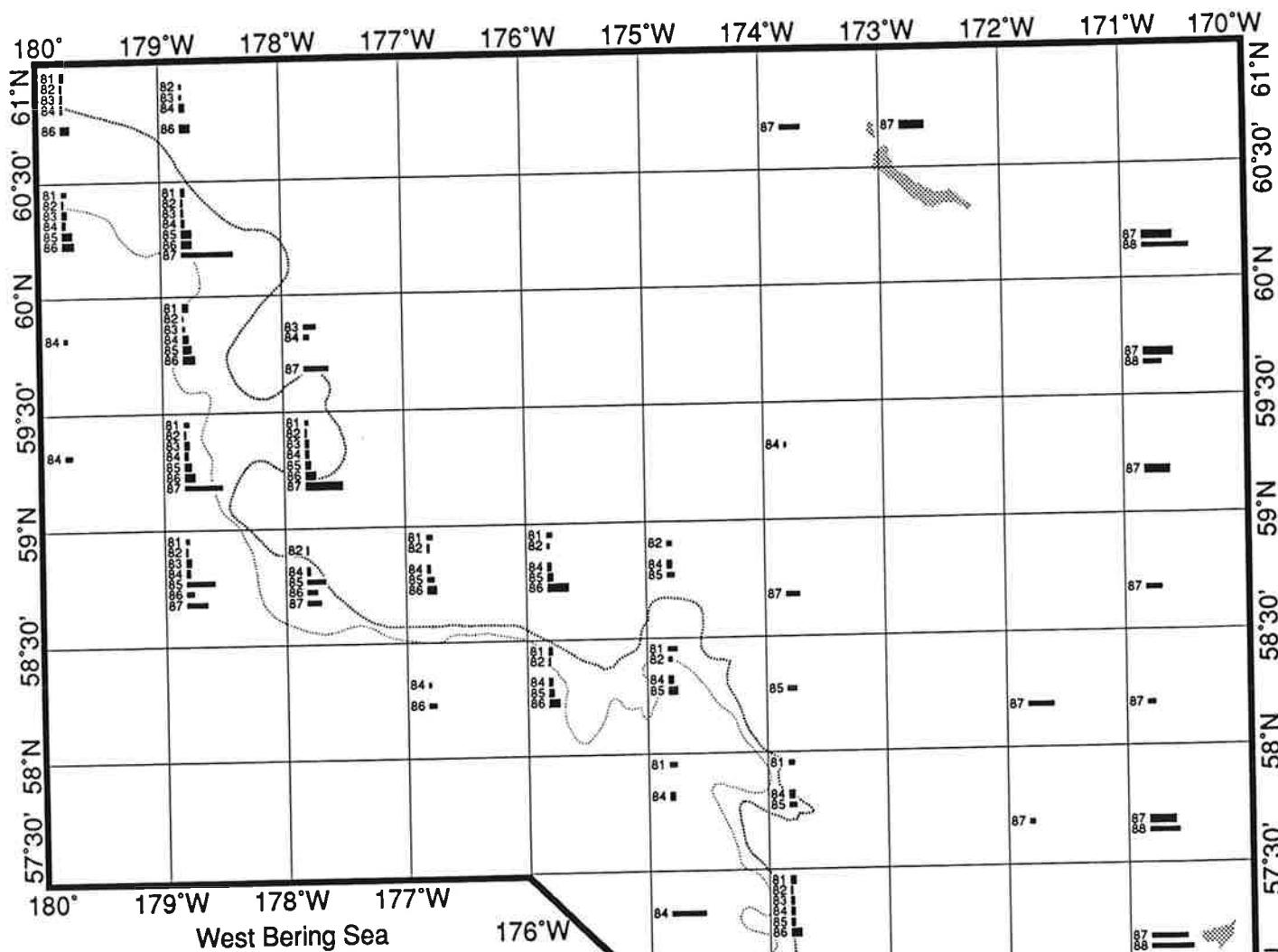
..... 200 Meter Contour.
- - - 1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

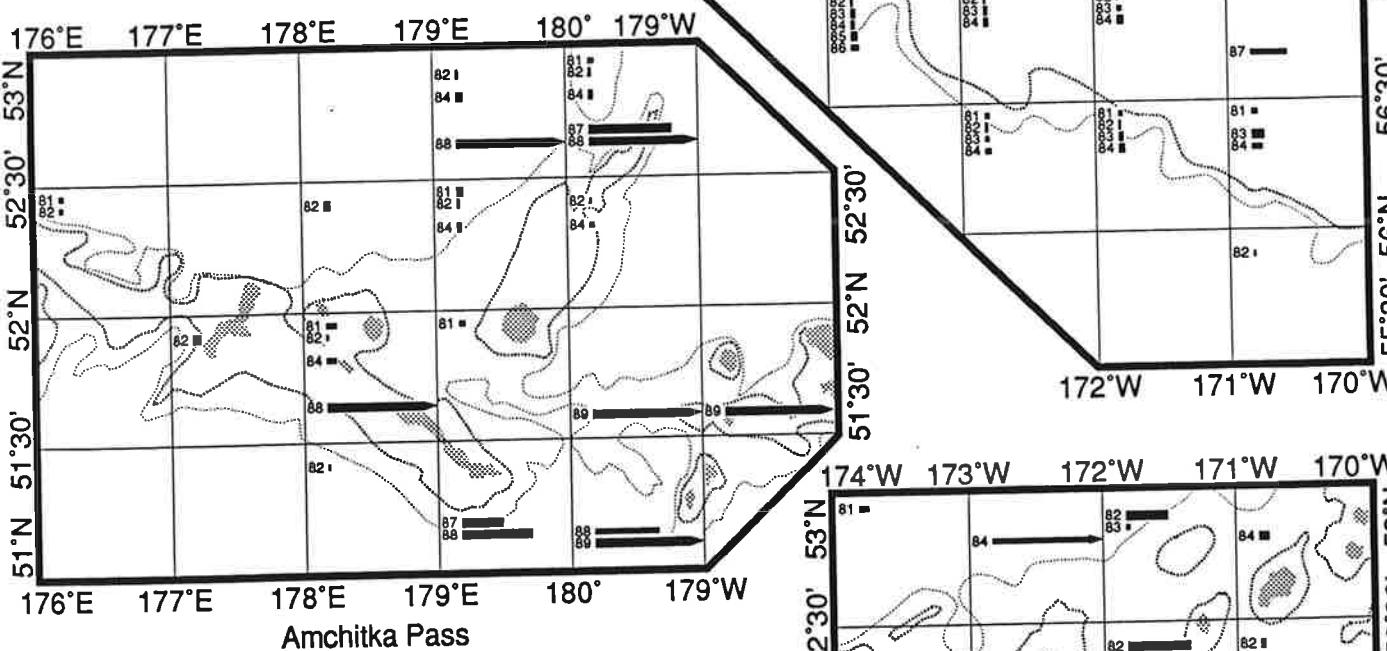
- 81 ————— 1981 CPUE Onscale. Five or More Tows (Wide Bar).
- 83 ————— 1983 CPUE Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 CPUE Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 CPUE Offscale. Less than Five Tows.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 12:12:08



July
MISCELLANEOUS SPECIES
Catch Per Unit Effort

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

July

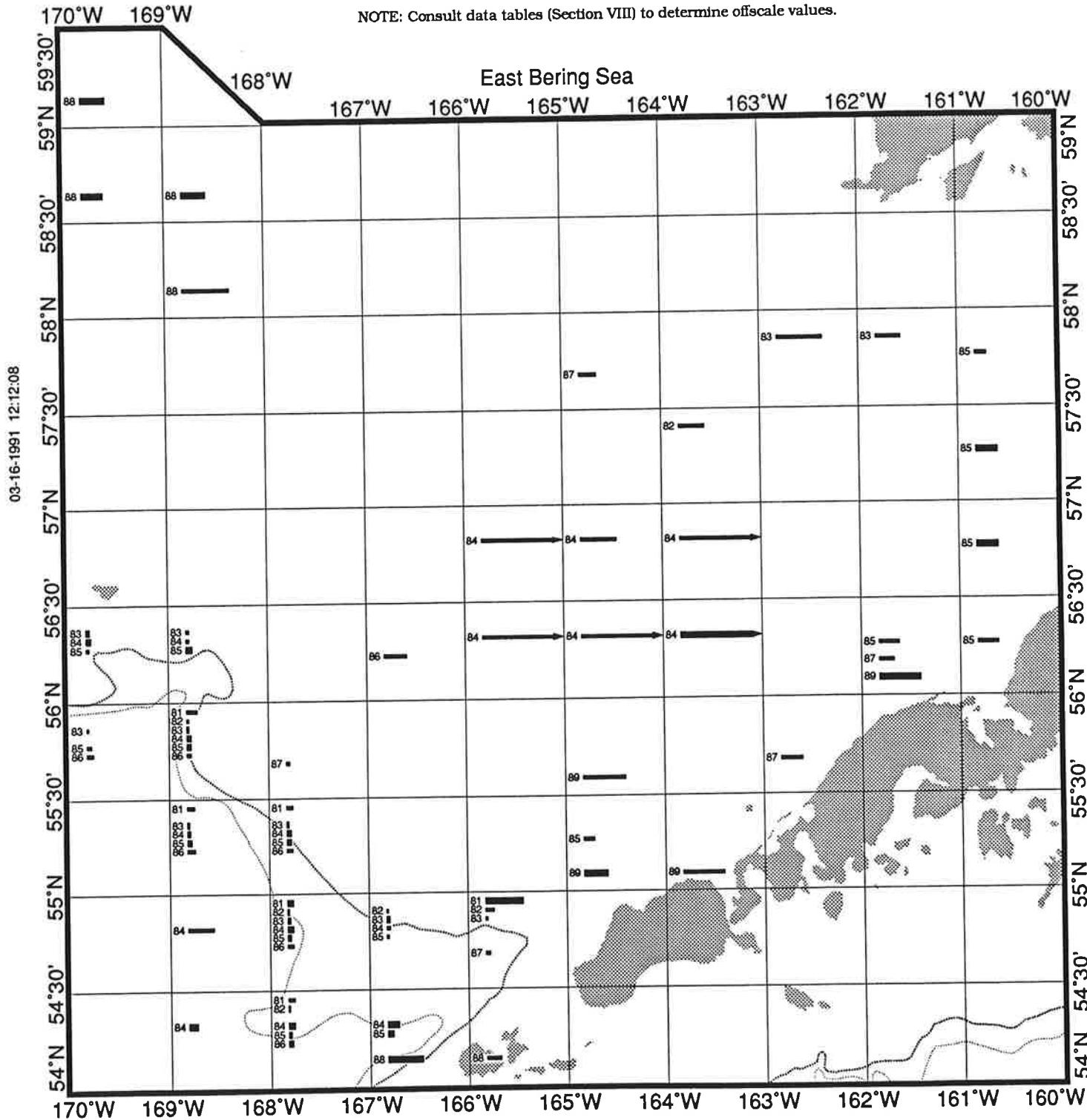
MISCELLANEOUS SPECIES Catch Per Unit Effort

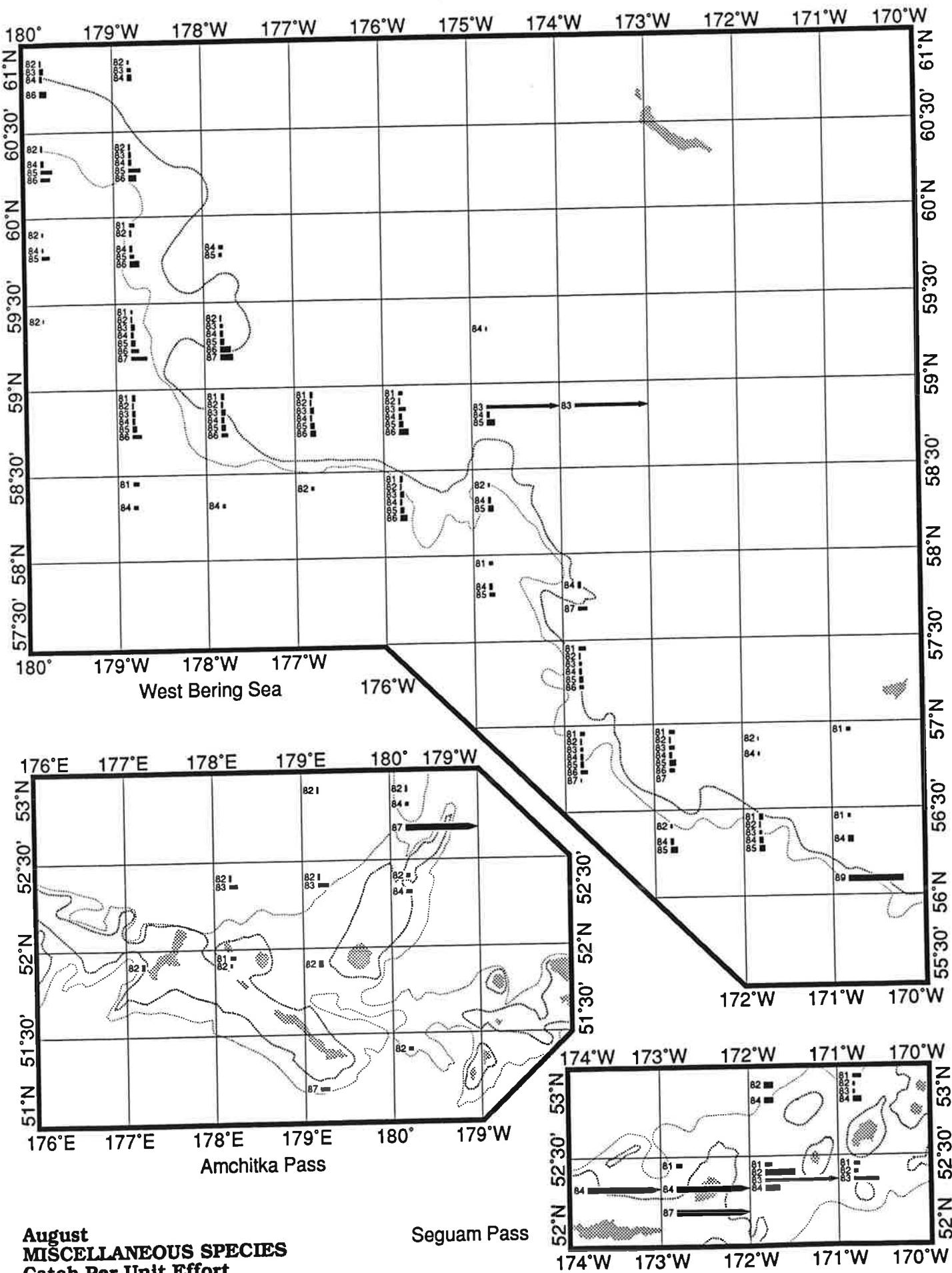
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

- 81 ——— 1981 CPUE Onscale, Five or More Tows (Wide Bar).
- 83 ——— 1983 CPUE Onscale, Less than Five Tows (Narrow Bar).
- 85 ————— 1985 CPUE Offscale (Pointed End), Five or More Tows.
- 87 ————— 1987 CPUE Offscale, Less than Five Tows.

NOTE: Consult data tables (Section VIII) to determine offscale values.





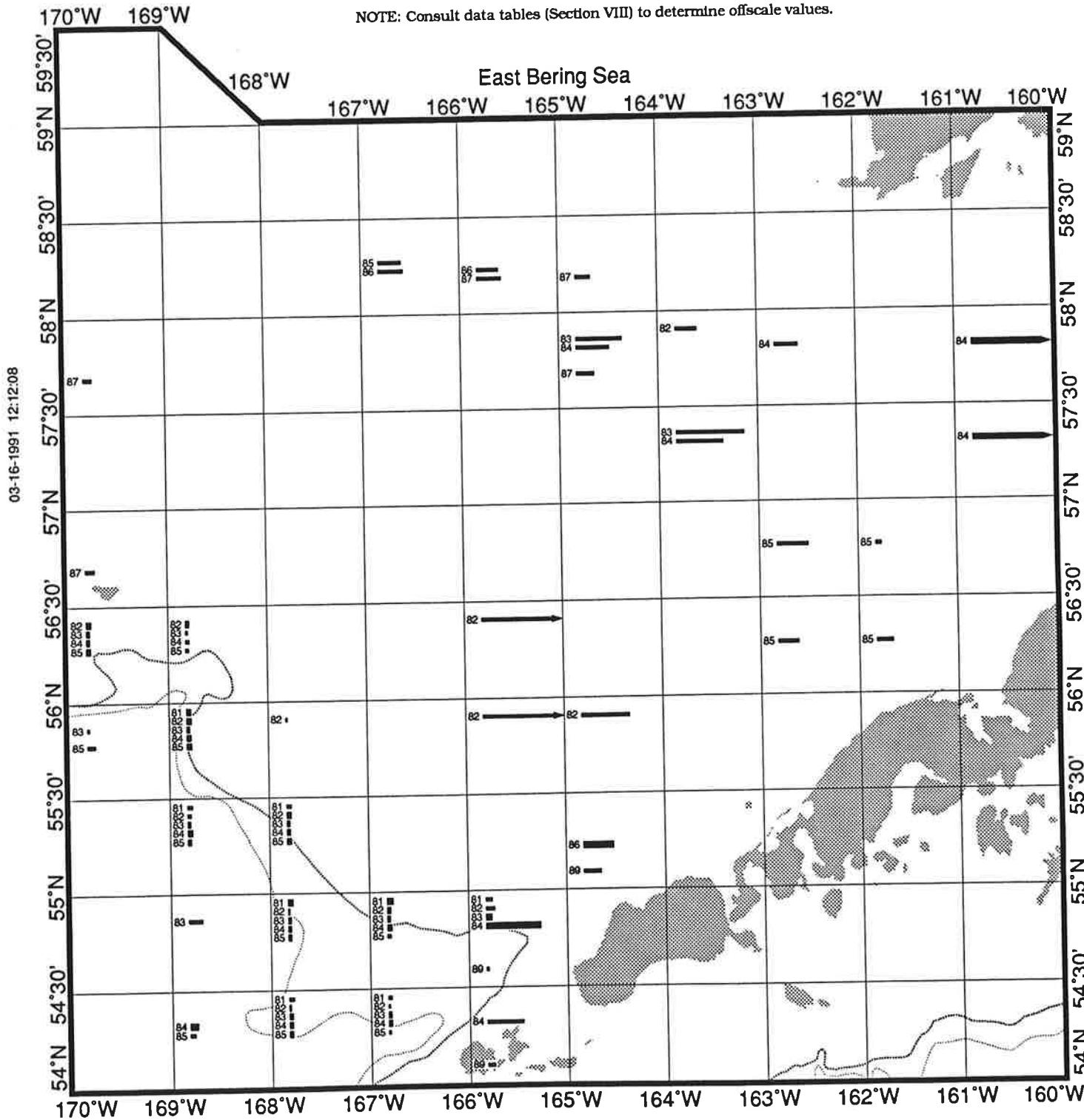
August
MISCELLANEOUS SPECIES
Catch Per Unit Effort

..... 200 Meter Contour.
..... 1000 Meter Contour.

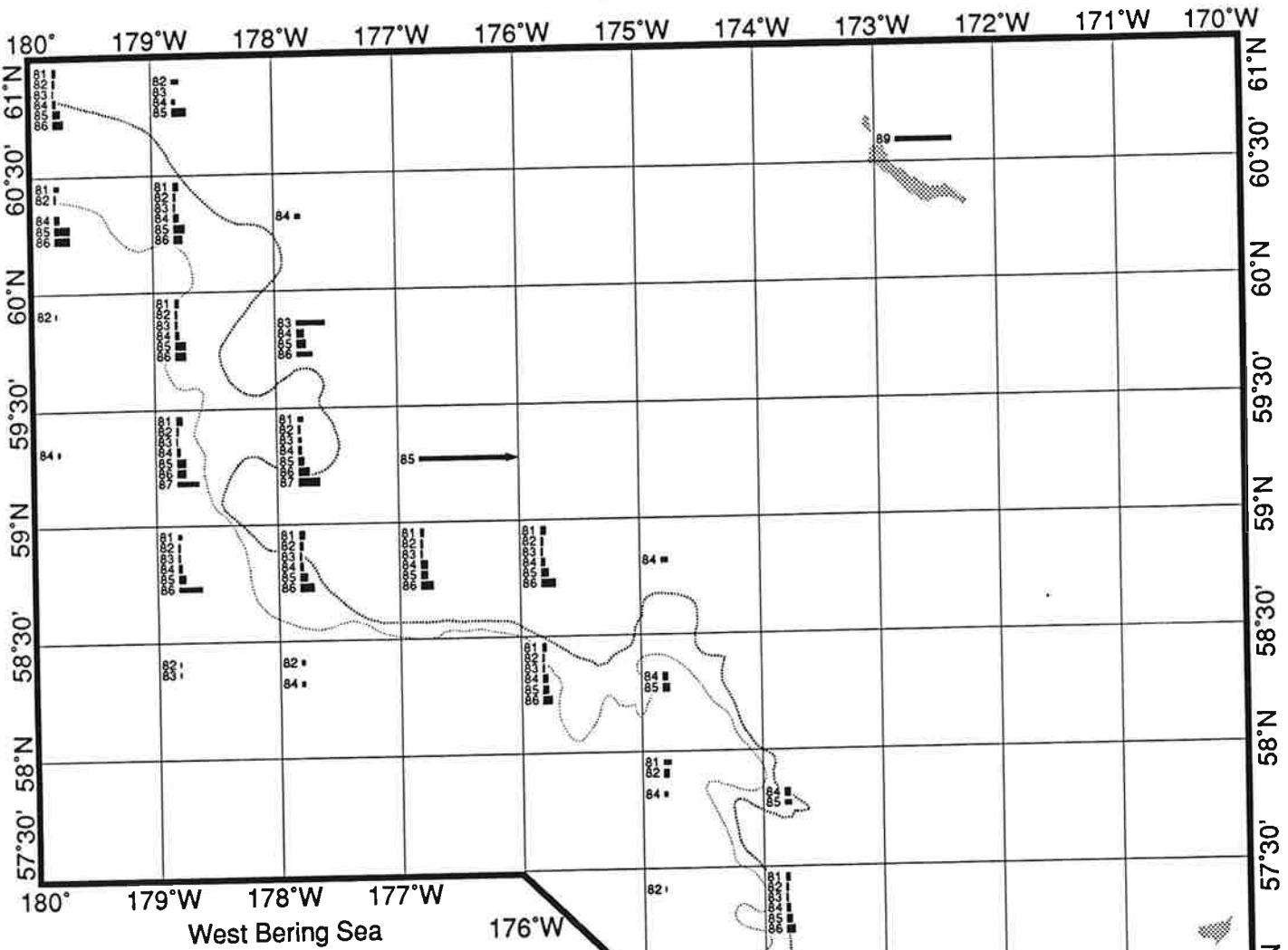
0 5 10 SCALE: Metric Tons Per Hour.

- 81 ————— 1981 CPUE Onscale, Five or More Tows (Wide Bar).
- 83 ————— 1983 CPUE Onscale, Less than Five Tows (Narrow Bar).
- 85 ————— 1985 CPUE Offscale (Pointed End), Five or More Tows.
- 87 ————— 1987 CPUE Offscale, Less than Five Tows.

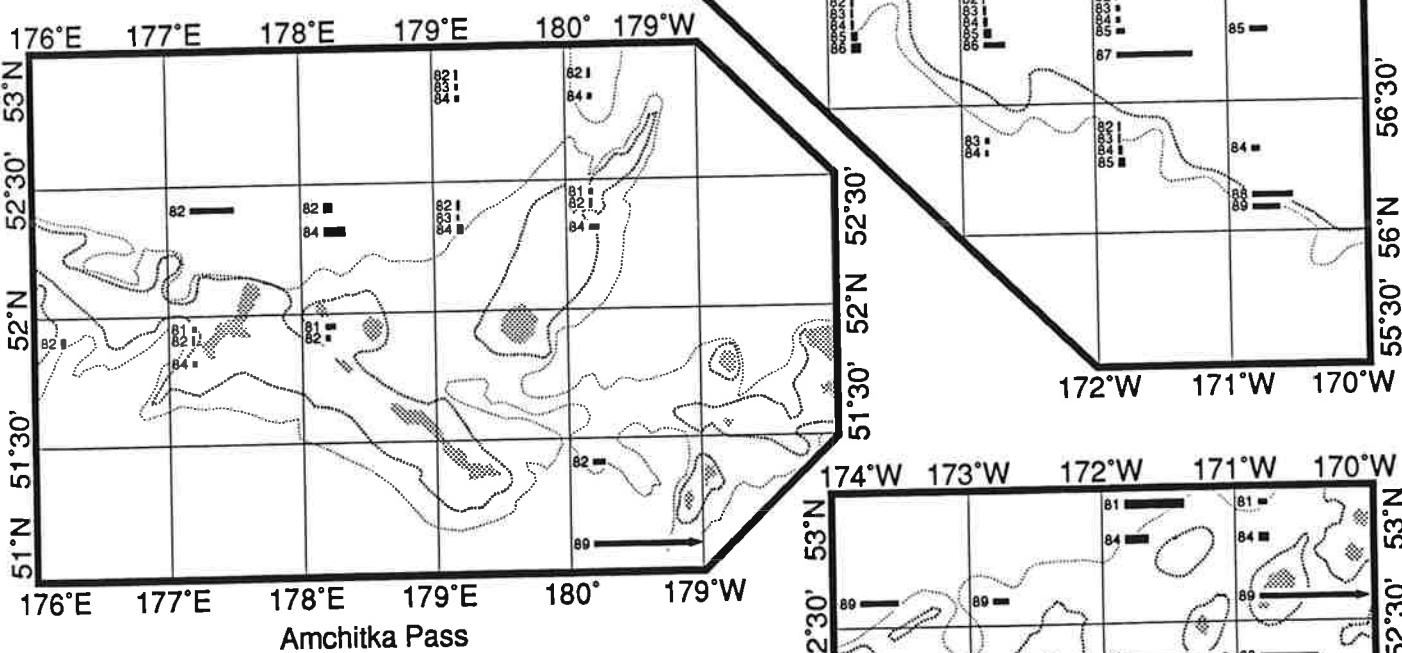
NOTE: Consult data tables (Section VIII) to determine offscale values.



III-18



03-16-1991 12:12:08



**September
MISCELLANEOUS SPECIES
Catch Per Unit Effort**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

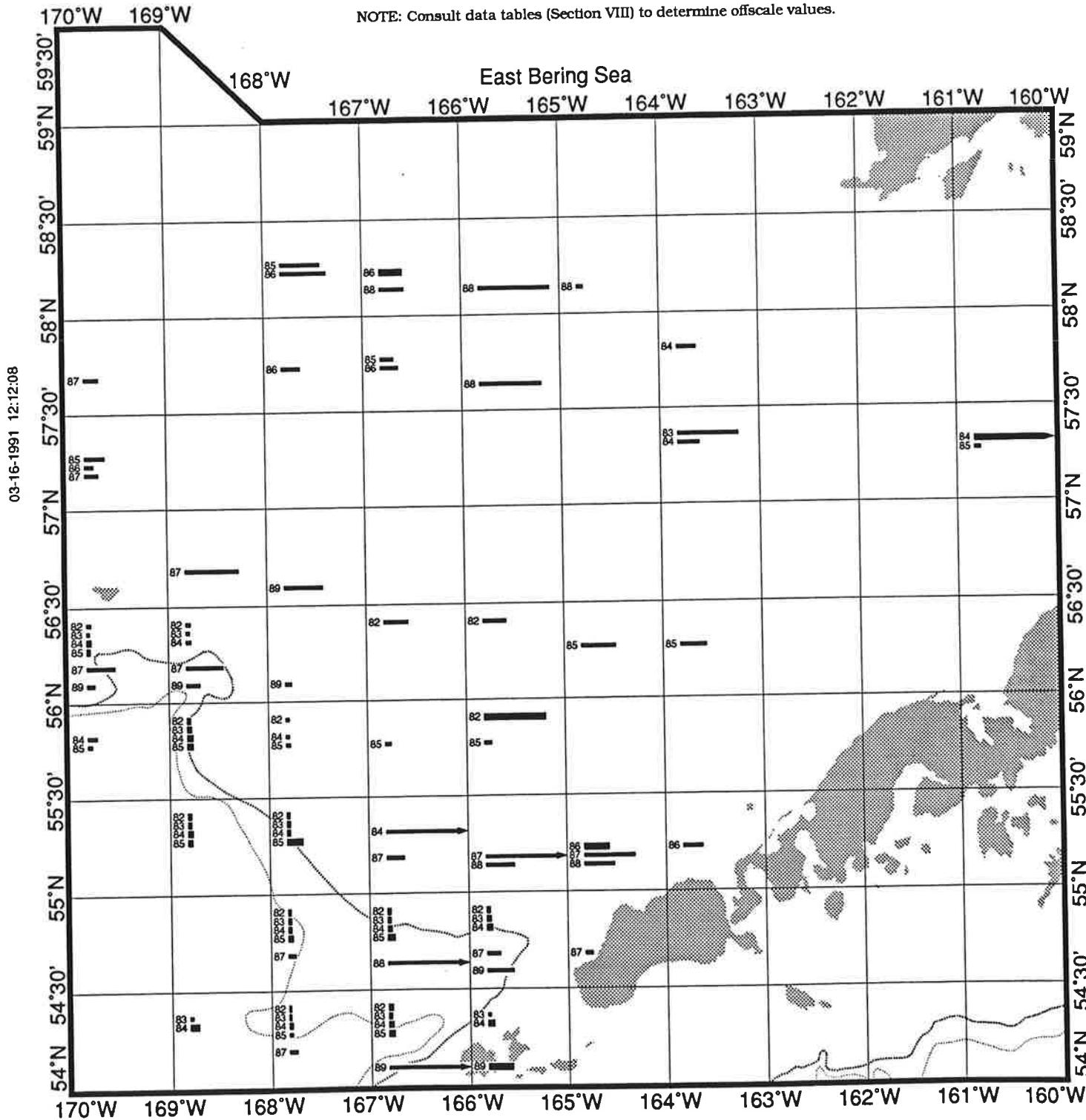
September
MISCELLANEOUS SPECIES
Catch Per Unit Effort

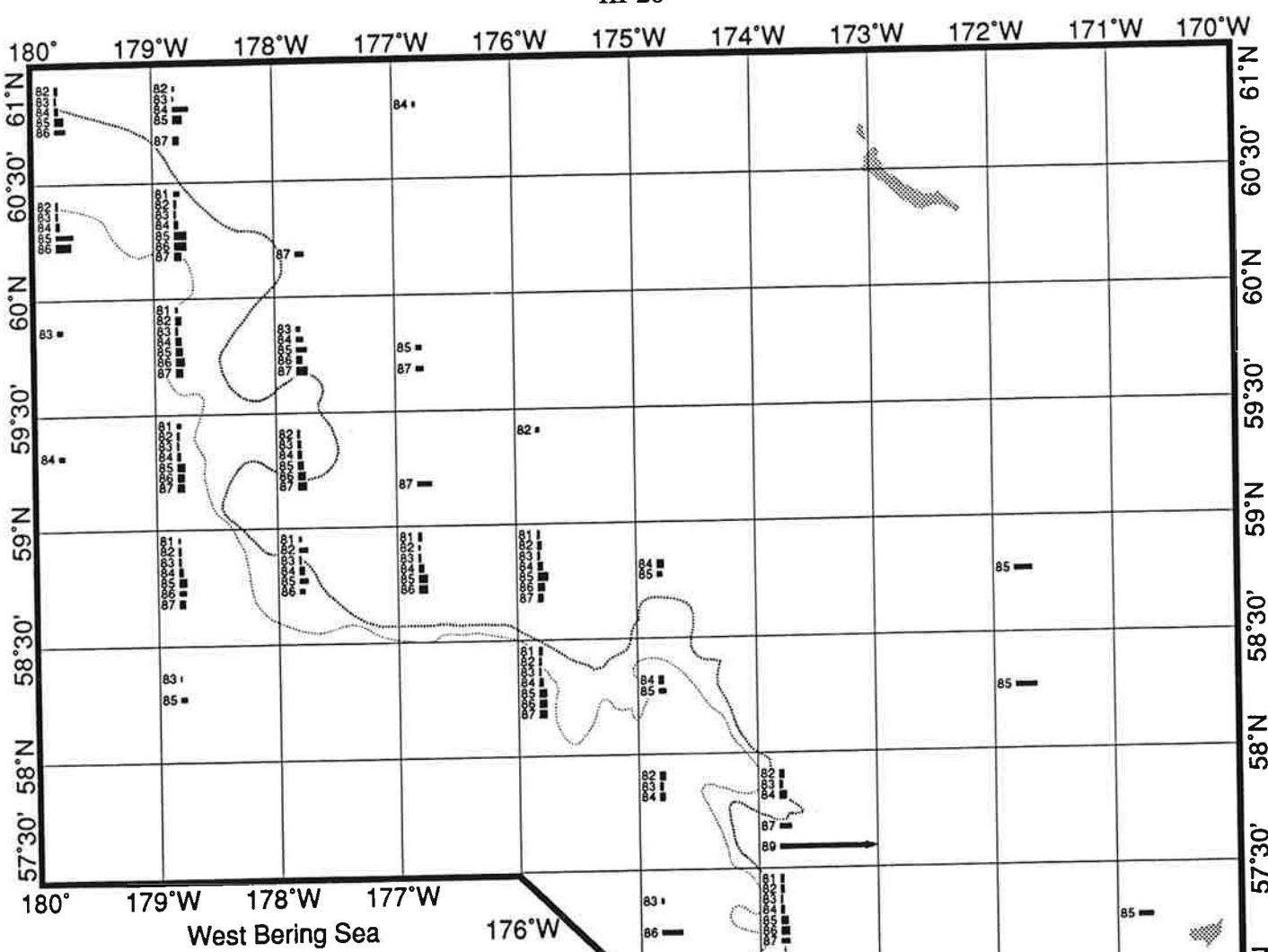
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0 5 10 SCALE: Metric Tons Per Hour.

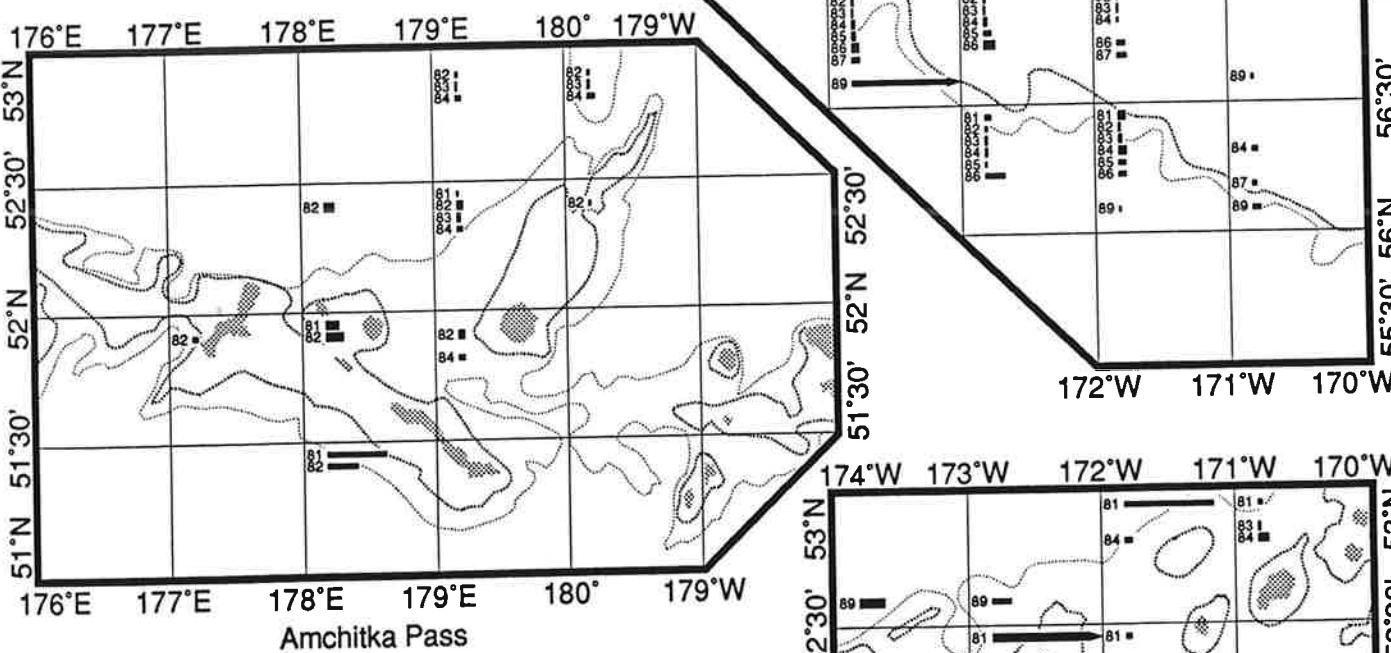
- 81 ————— 1981 CPUE Onscale, Five or More Tows (Wide Bar).
- 83 ————— 1983 CPUE Onscale, Less than Five Tows (Narrow Bar).
- 85 ————— 1985 CPUE Offscale (Pointed End), Five or More Tows.
- 87 ————— 1987 CPUE Offscale, Less than Five Tows.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 12:12:08



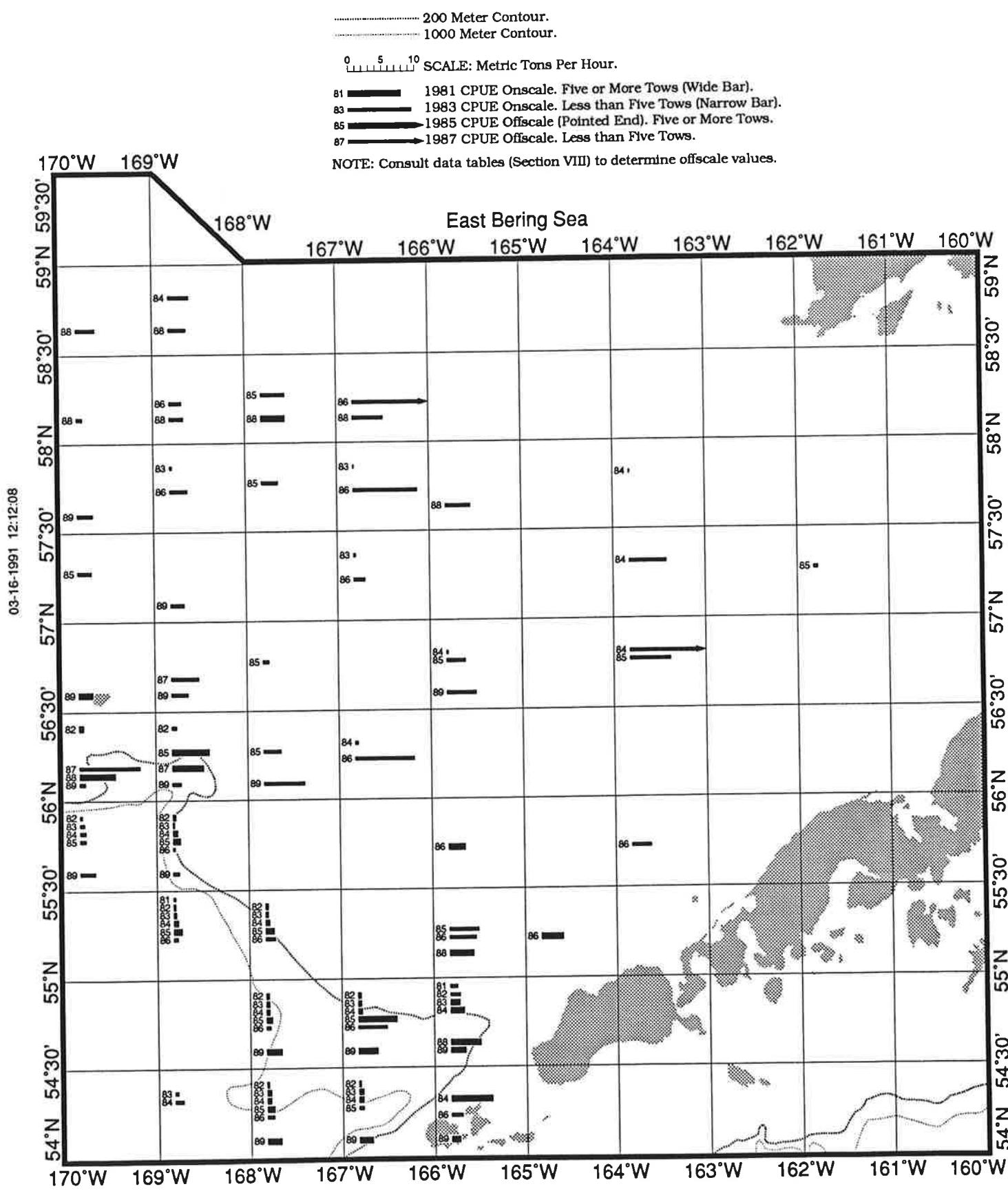
**October
MISCELLANEOUS SPECIES
Catch Per Unit Effort**

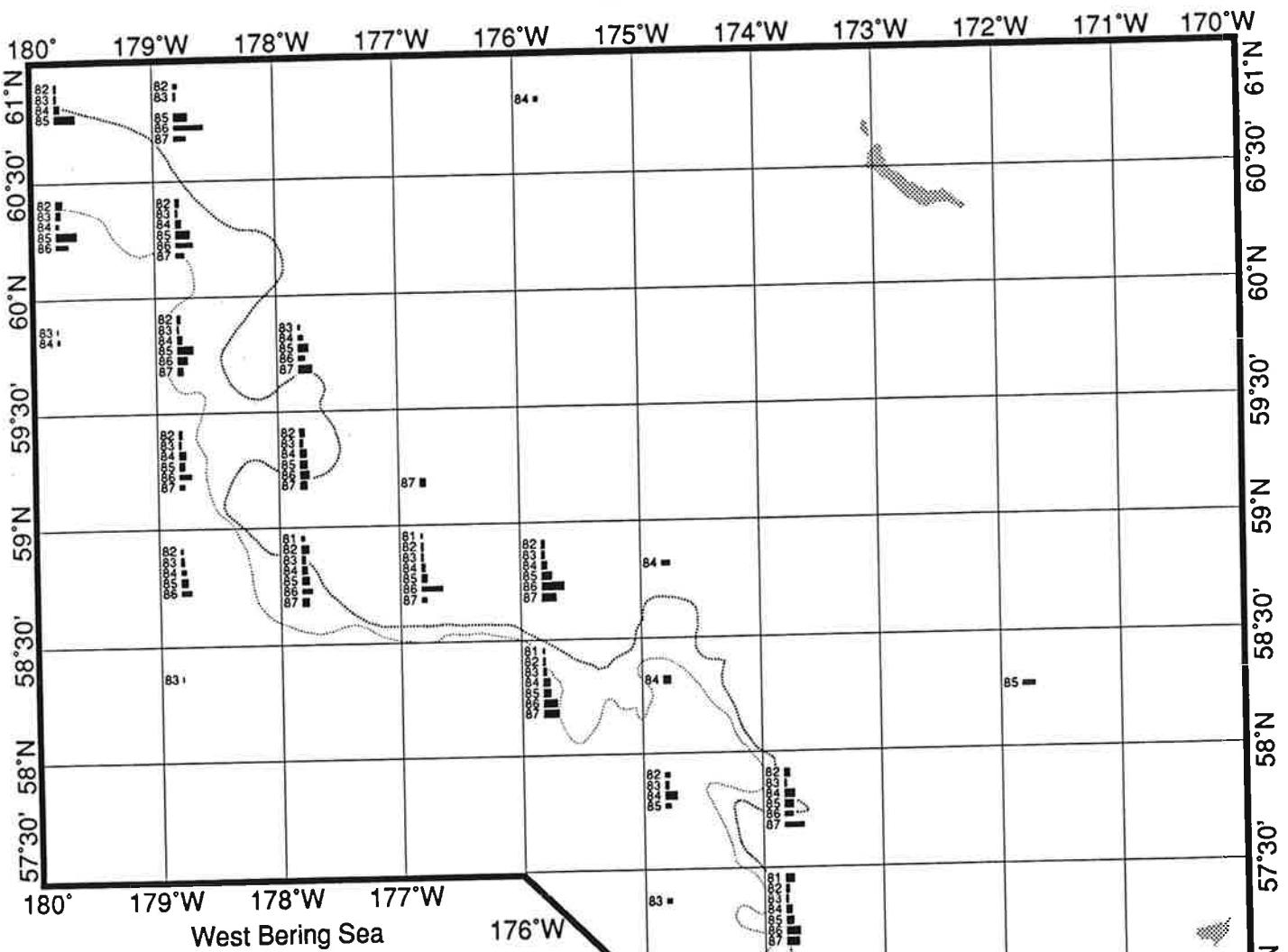
Seguam Pass

October

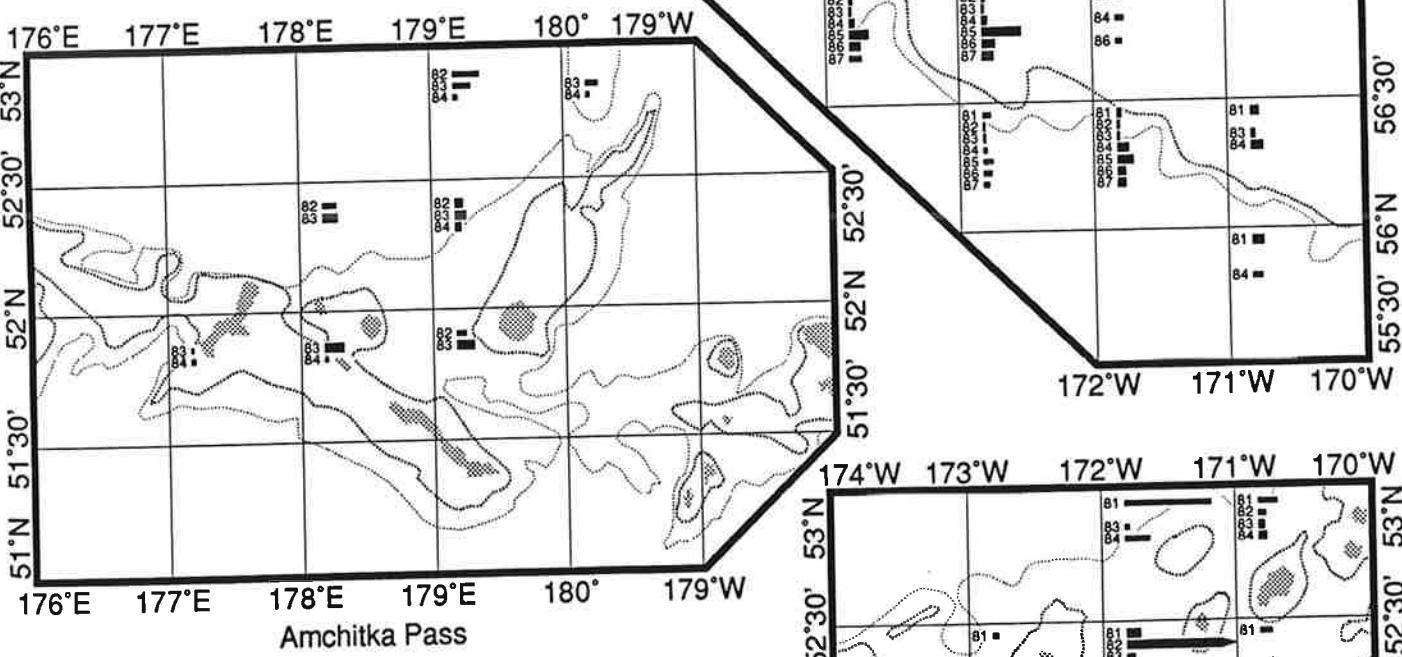
MISCELLANEOUS SPECIES

Catch Per Unit Effort





03-16-1991 12:12:08



November
MISCELLANEOUS SPECIES
Catch Per Unit Effort

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

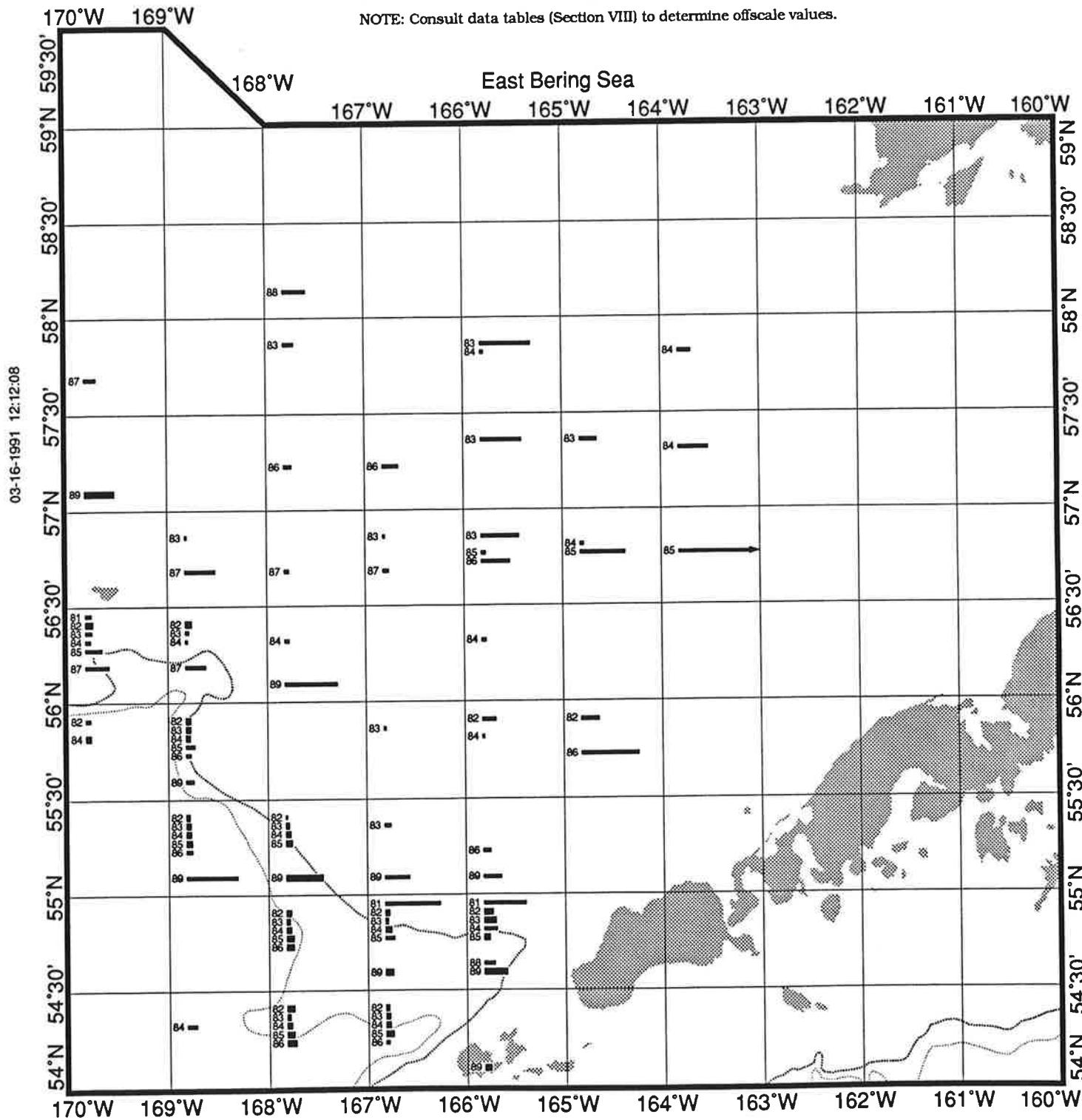
November
MISCELLANEOUS SPECIES
Catch Per Unit Effort

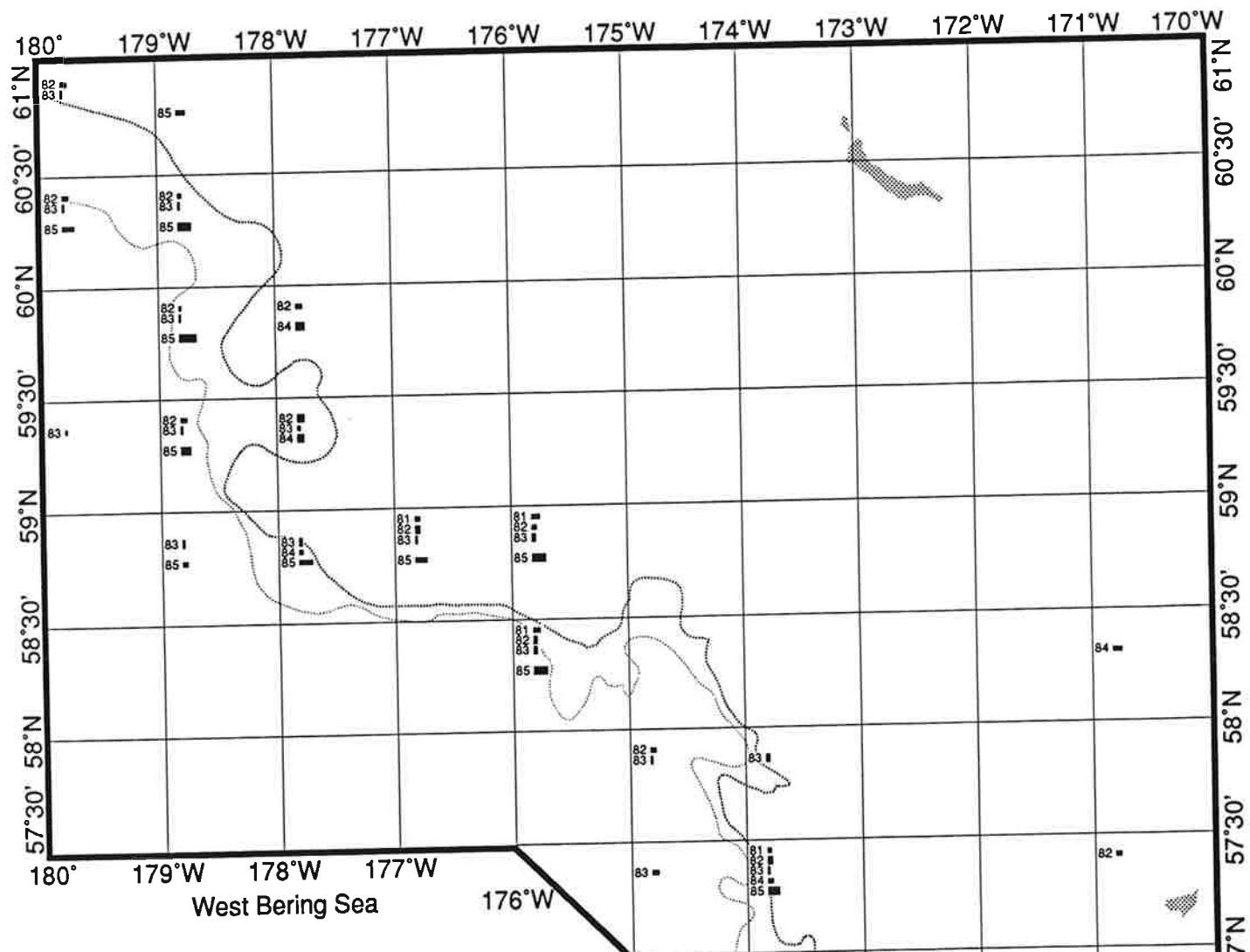
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

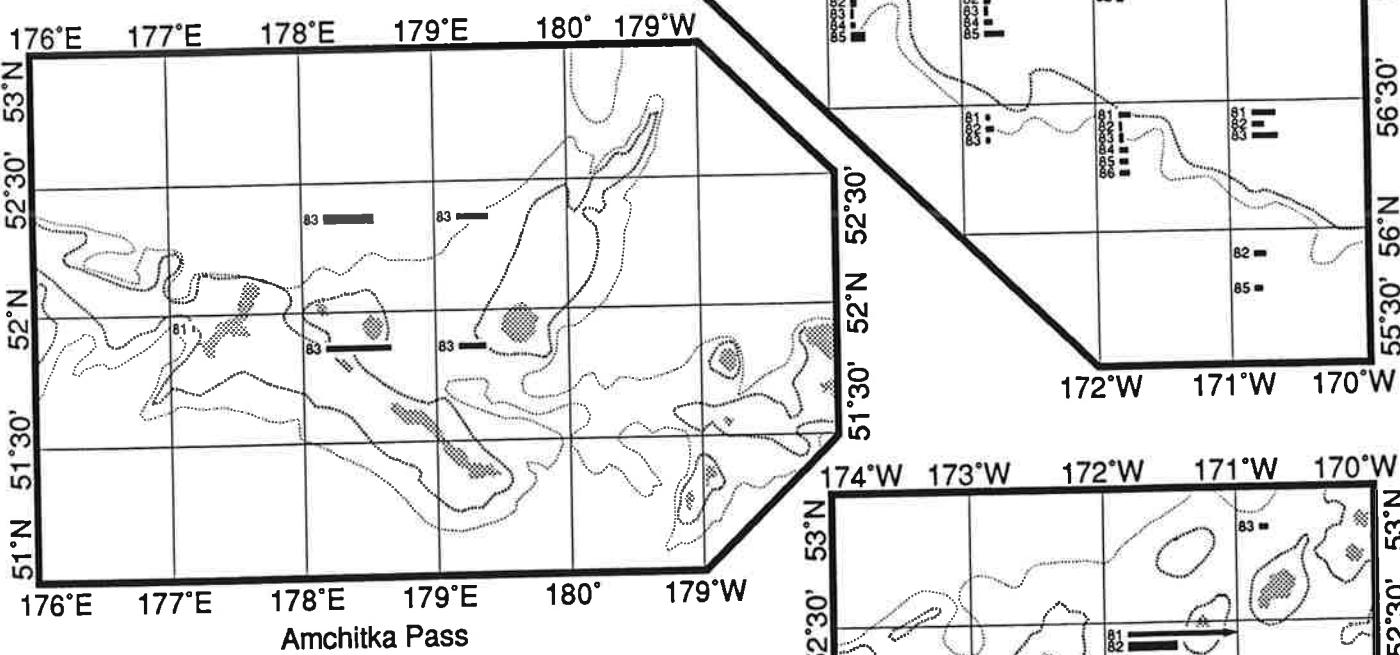
- 81 ——— 1981 CPUE Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 CPUE Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 CPUE Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 CPUE Offscale. Less than Five Tows.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 12:12:08

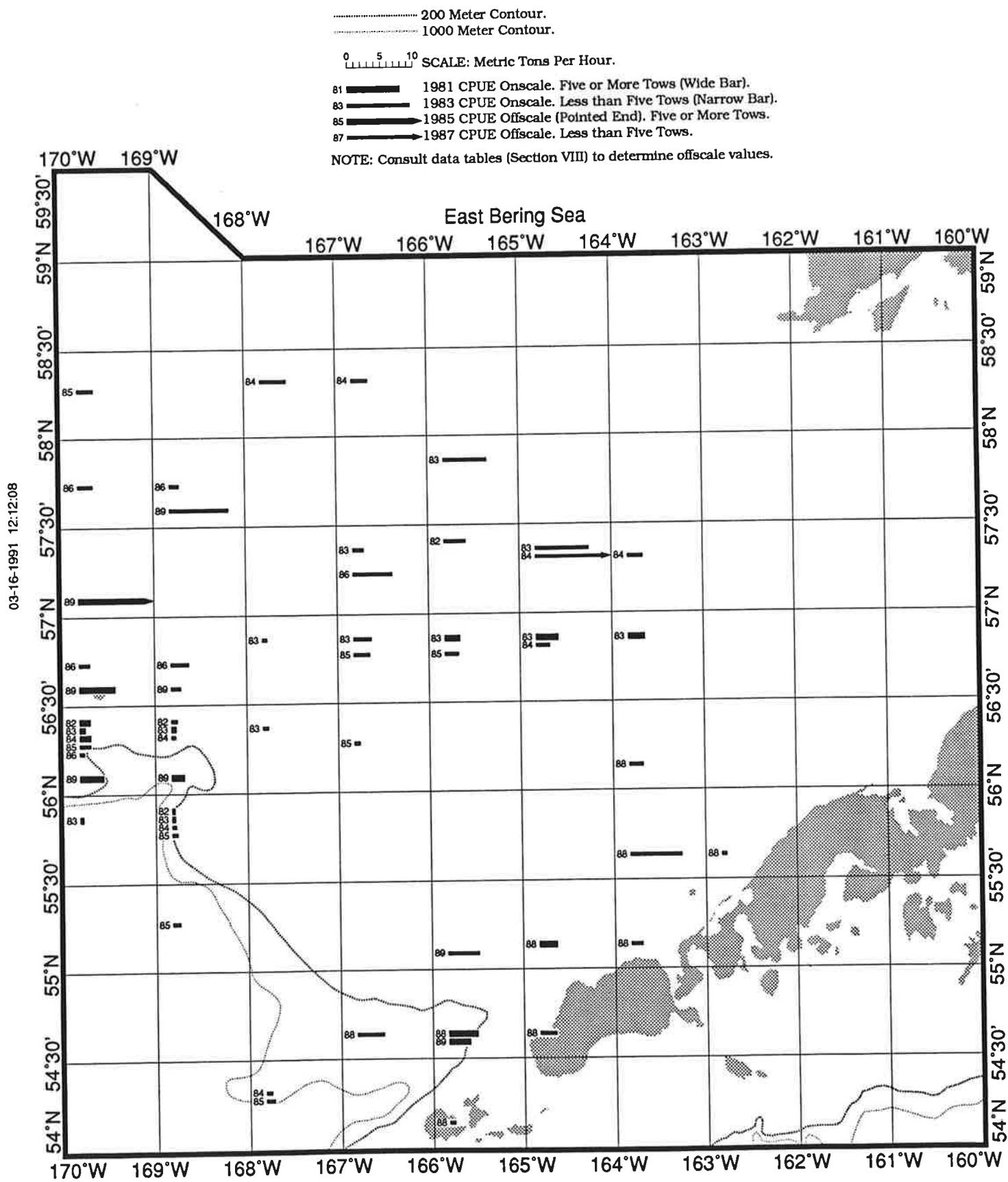


December MISCELLANEOUS SPECIES Catch Per Unit Effort

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

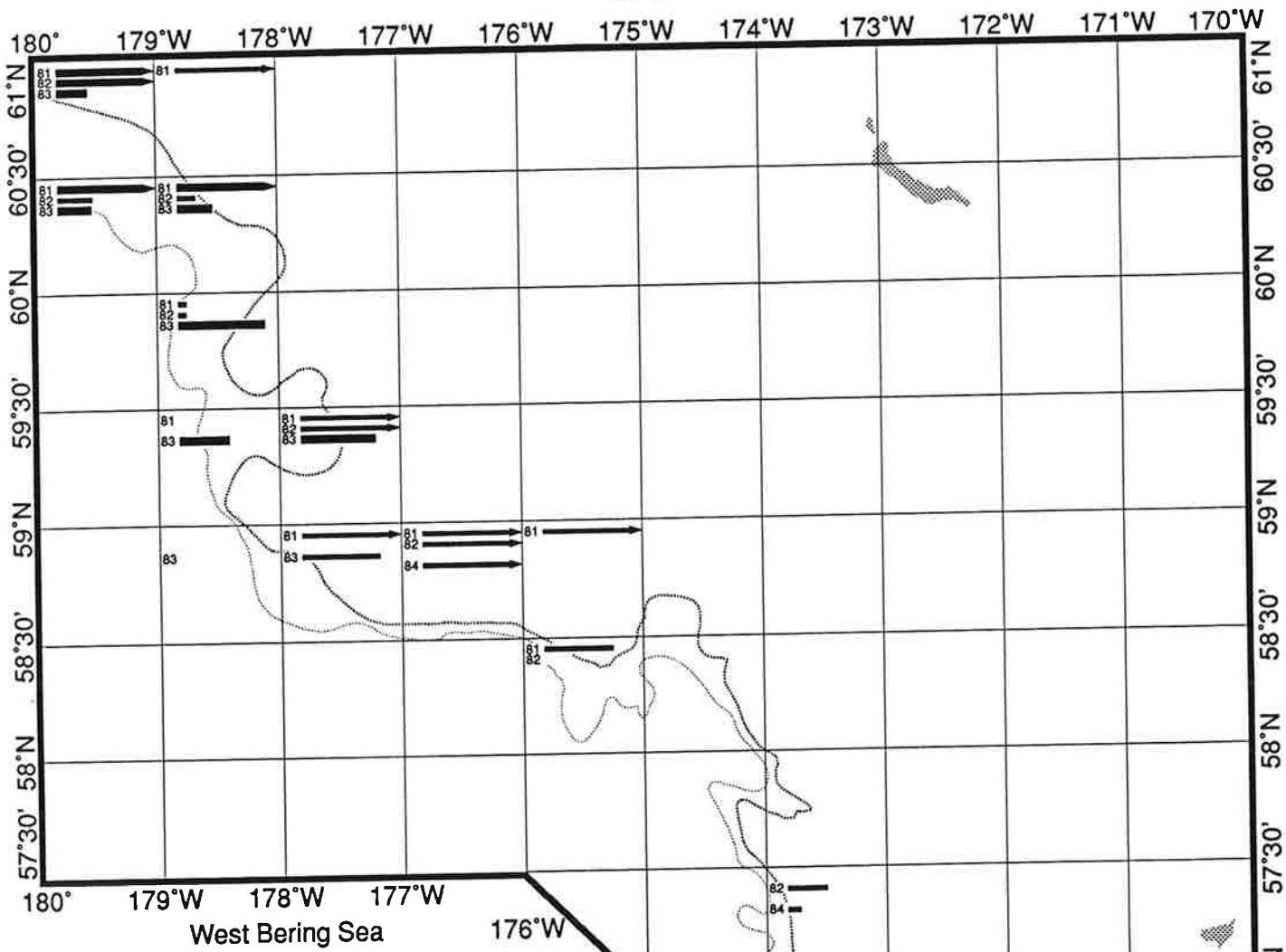
December
MISCELLANEOUS SPECIES
Catch Per Unit Effort



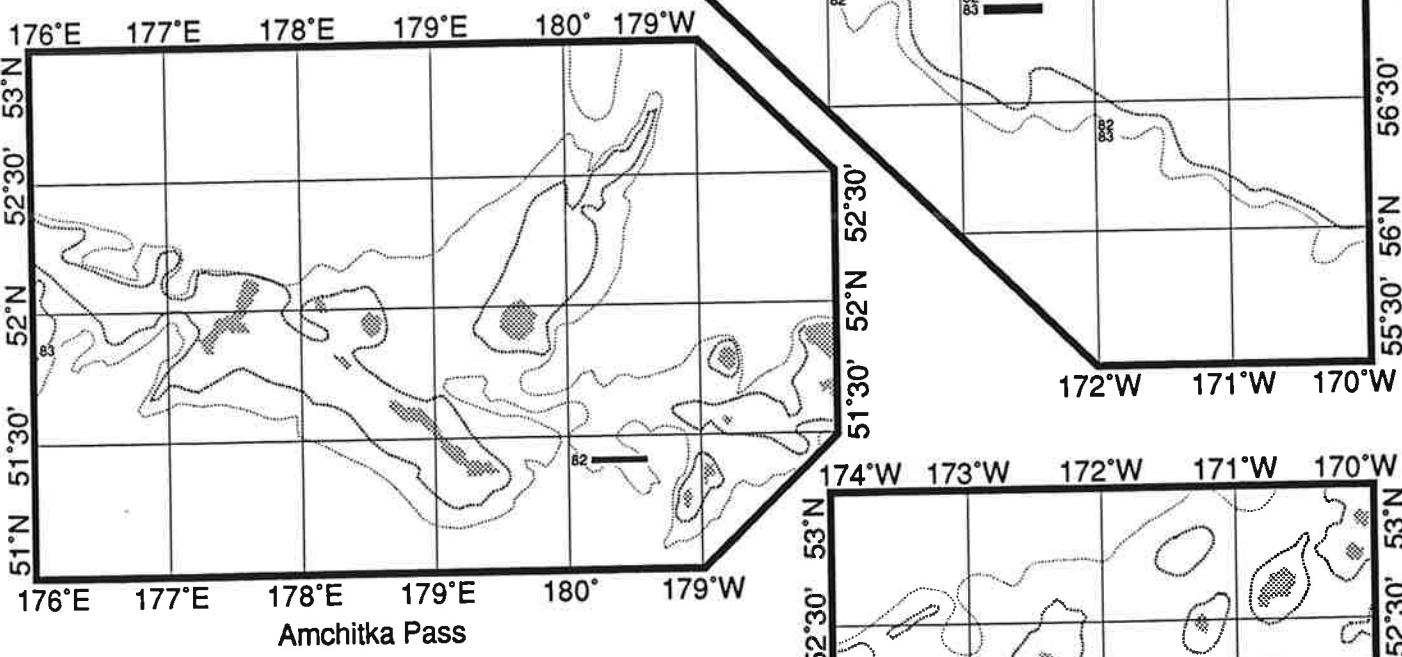
SECTION IV

HALIBUT BYCATCH RATE CHARTS

IV-2



03-16-1991 12:33:06



January MISCELLANEOUS SPECIES Halibut Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

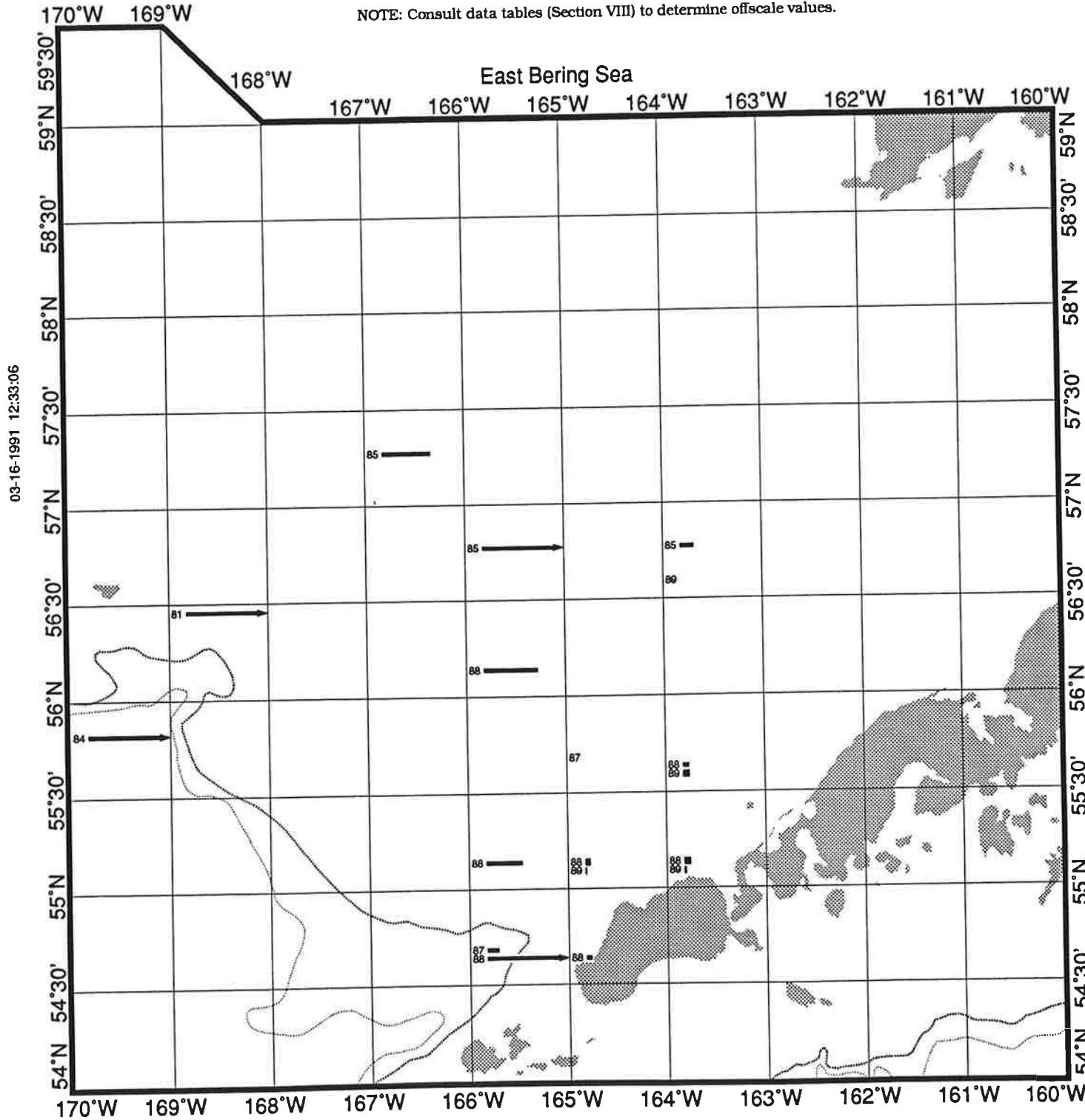
January
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

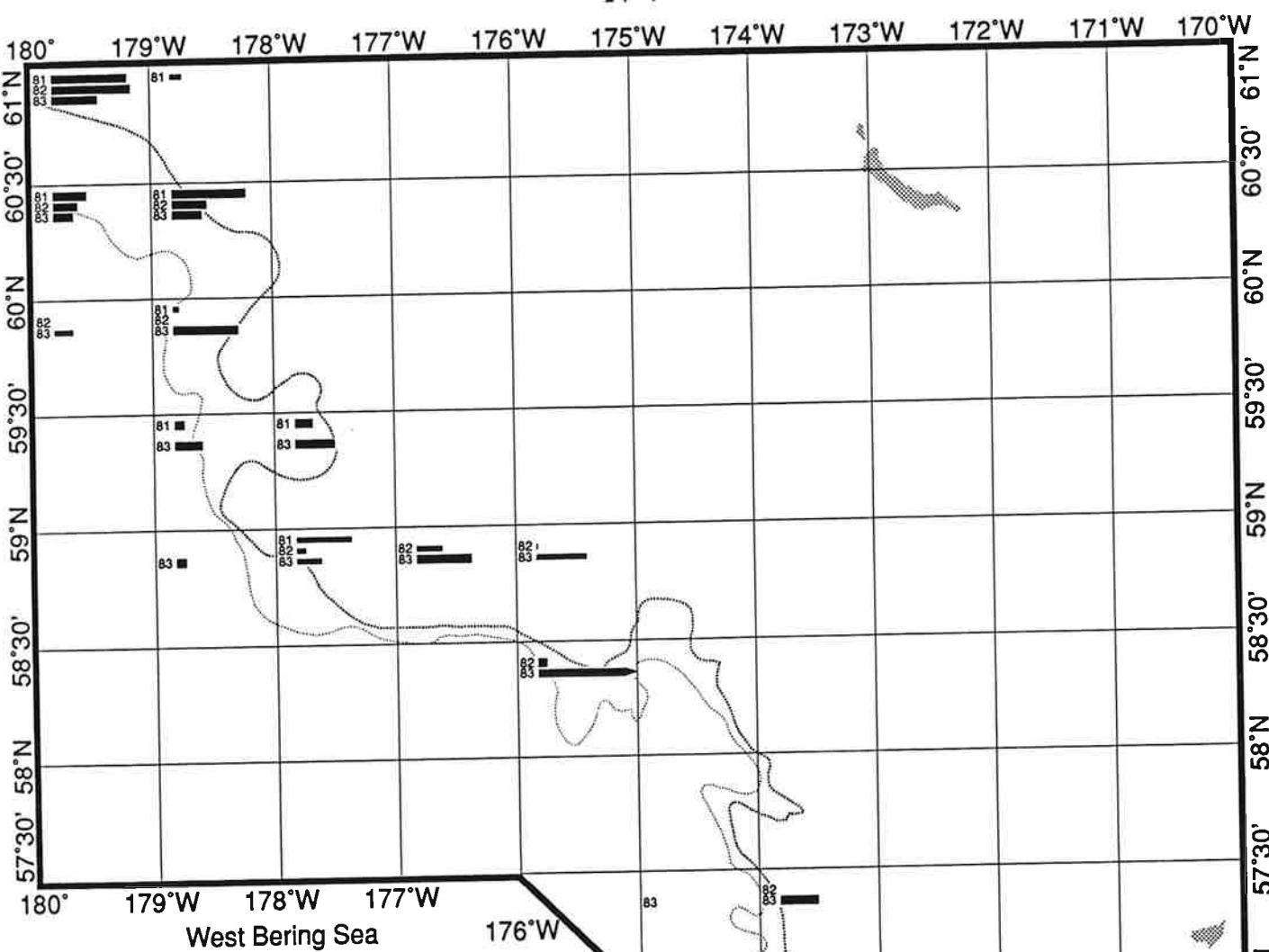
0 3 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ———— 1987 Bycatch Rate Zero.

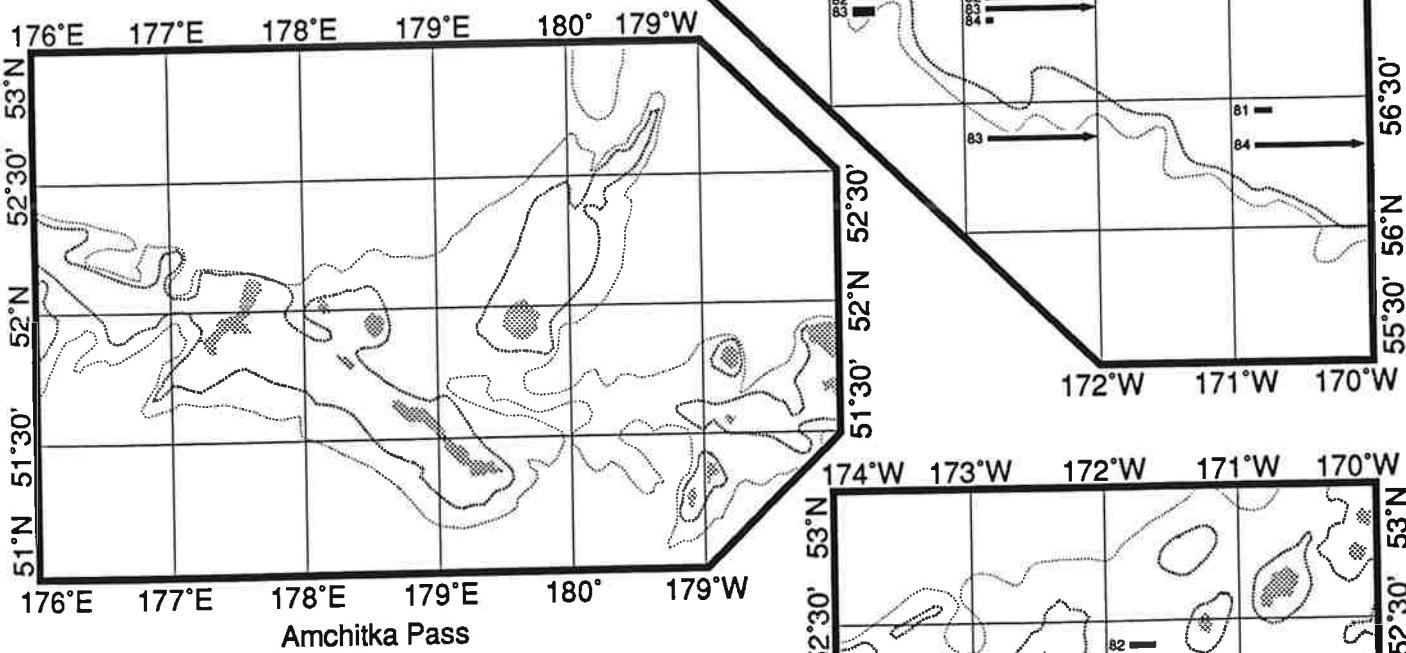
NOTE: Consult data tables (Section VIII) to determine offscale values.



IV-4



03-16-1991 12:33:06



February
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

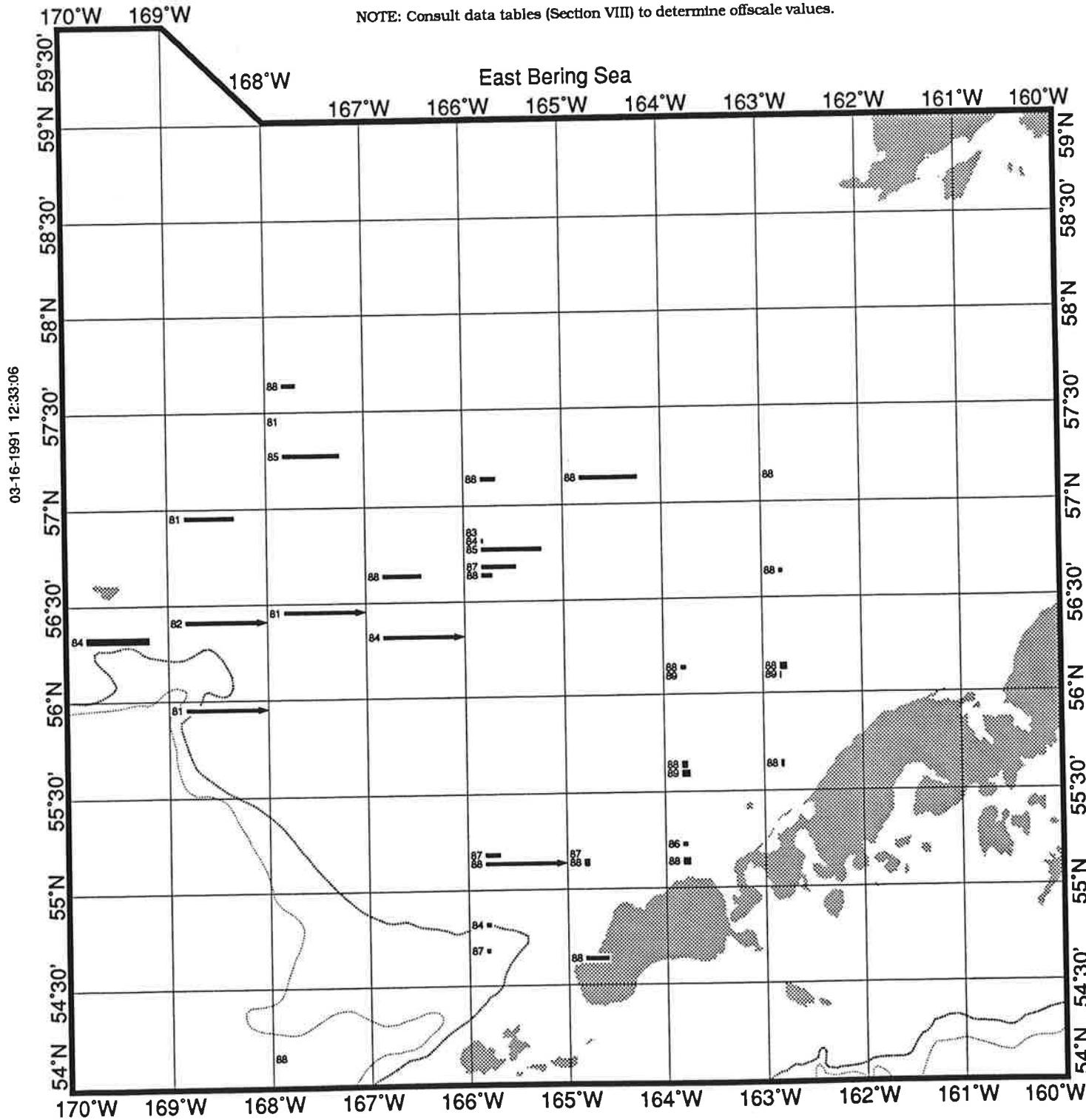
February
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

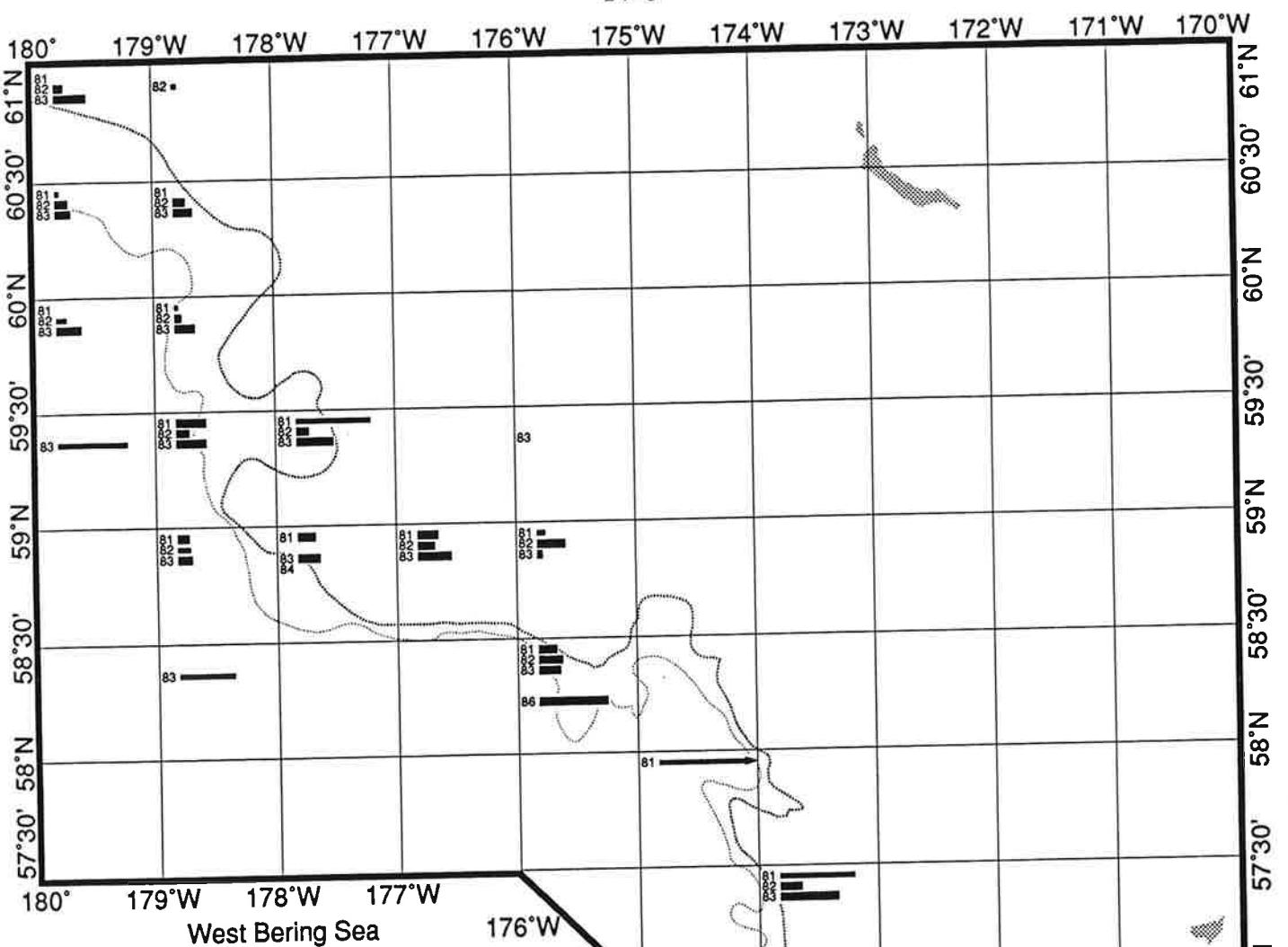
0 1 2 3 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ———— 1987 Bycatch Rate Zero.

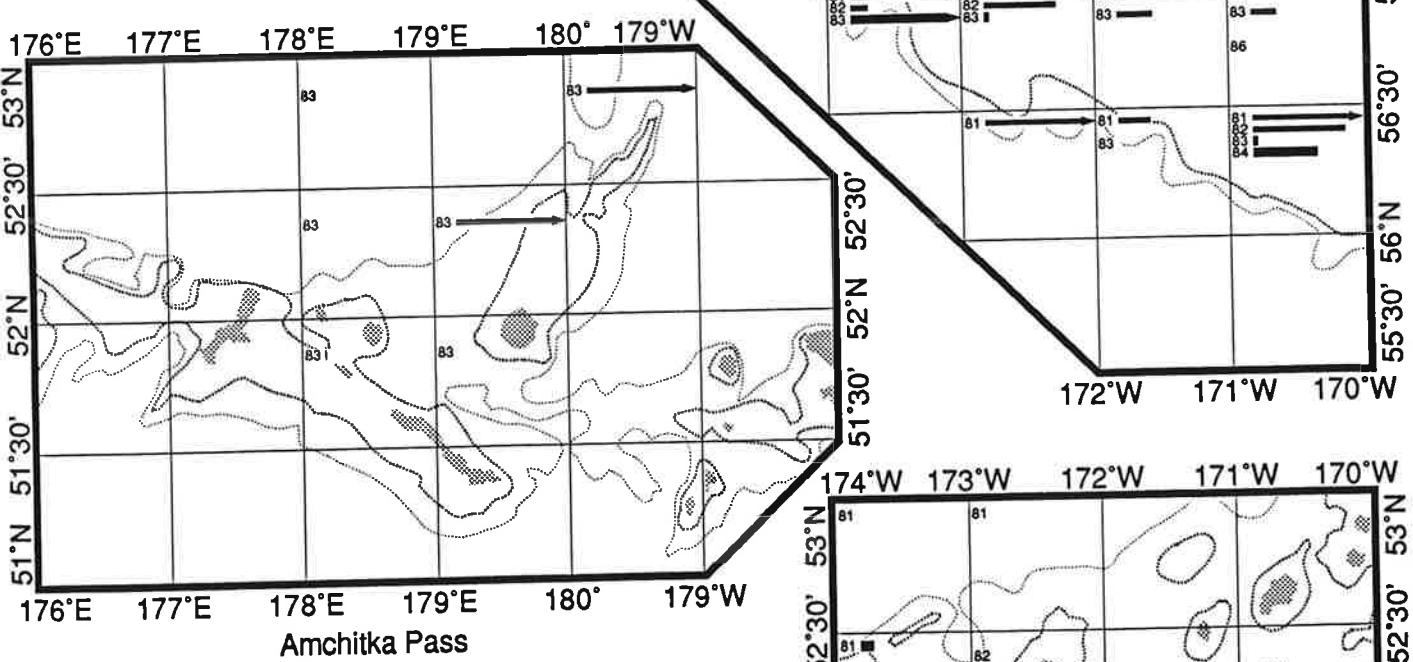
NOTE: Consult data tables (Section VIII) to determine offscale values.



IV-6



03-16-1991 12:33:06



March
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

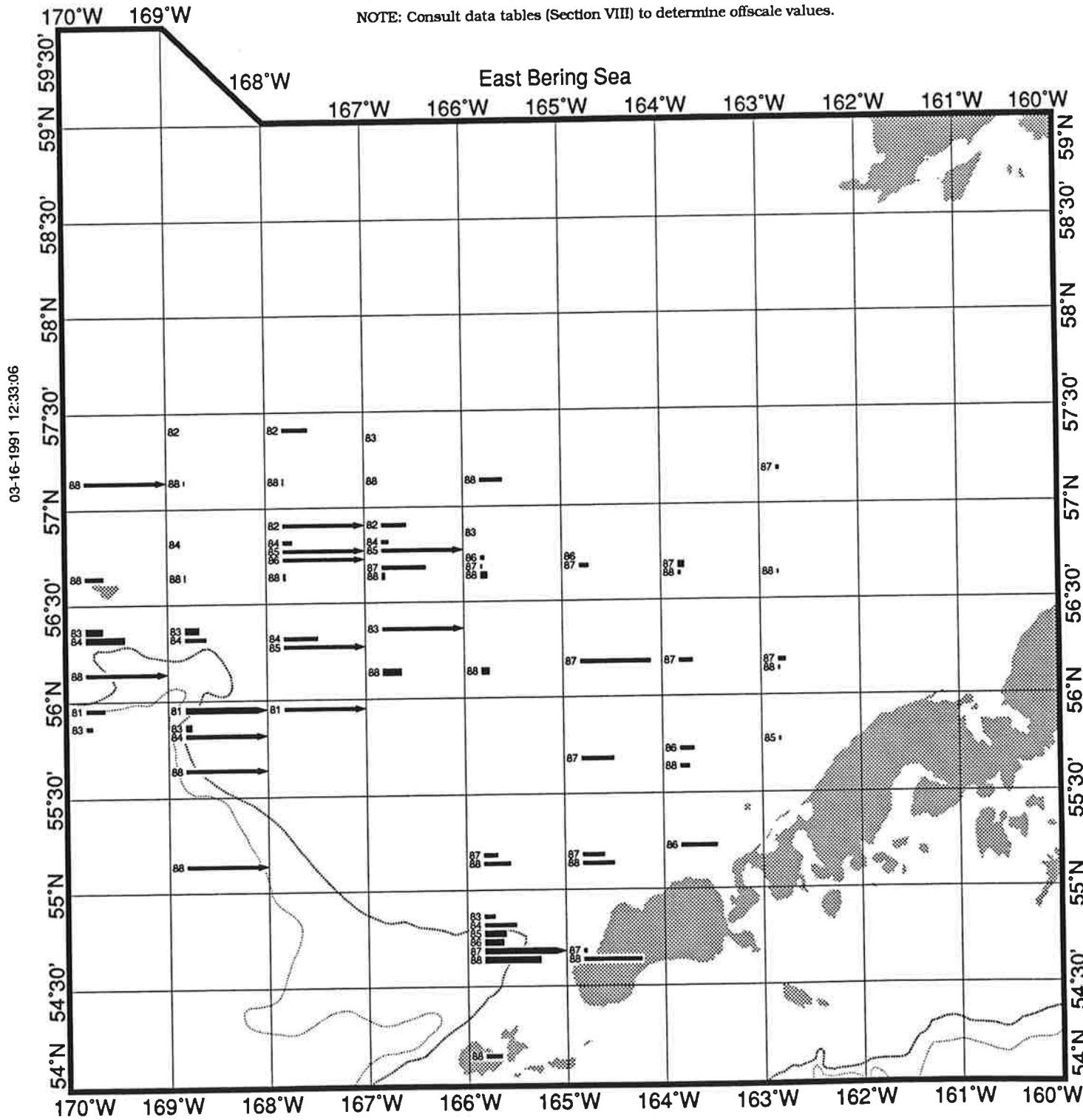
March
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

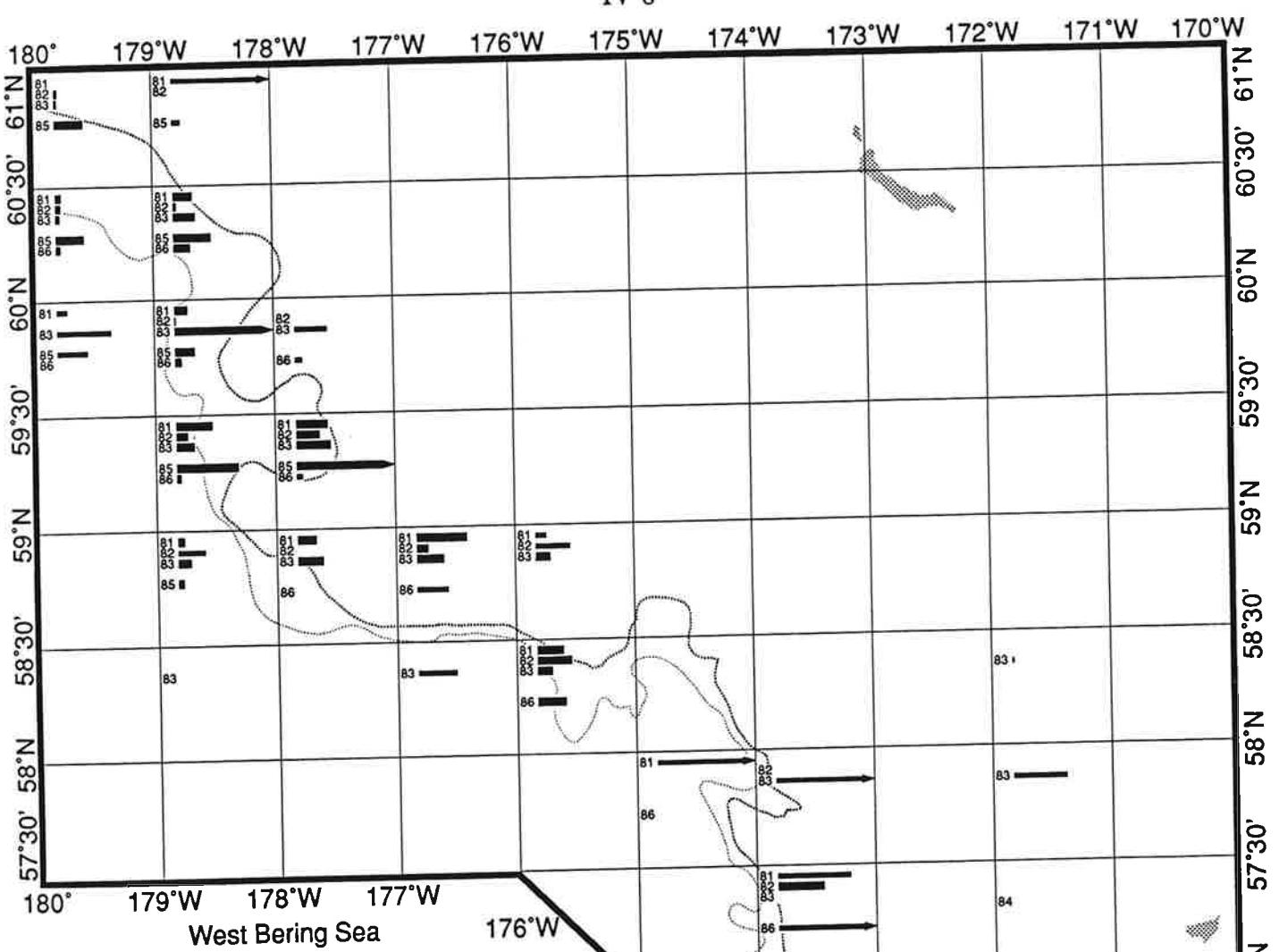
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 3 SCALE: Percentage by Weight.

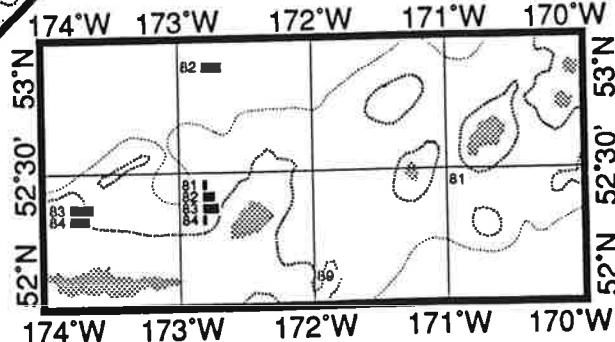
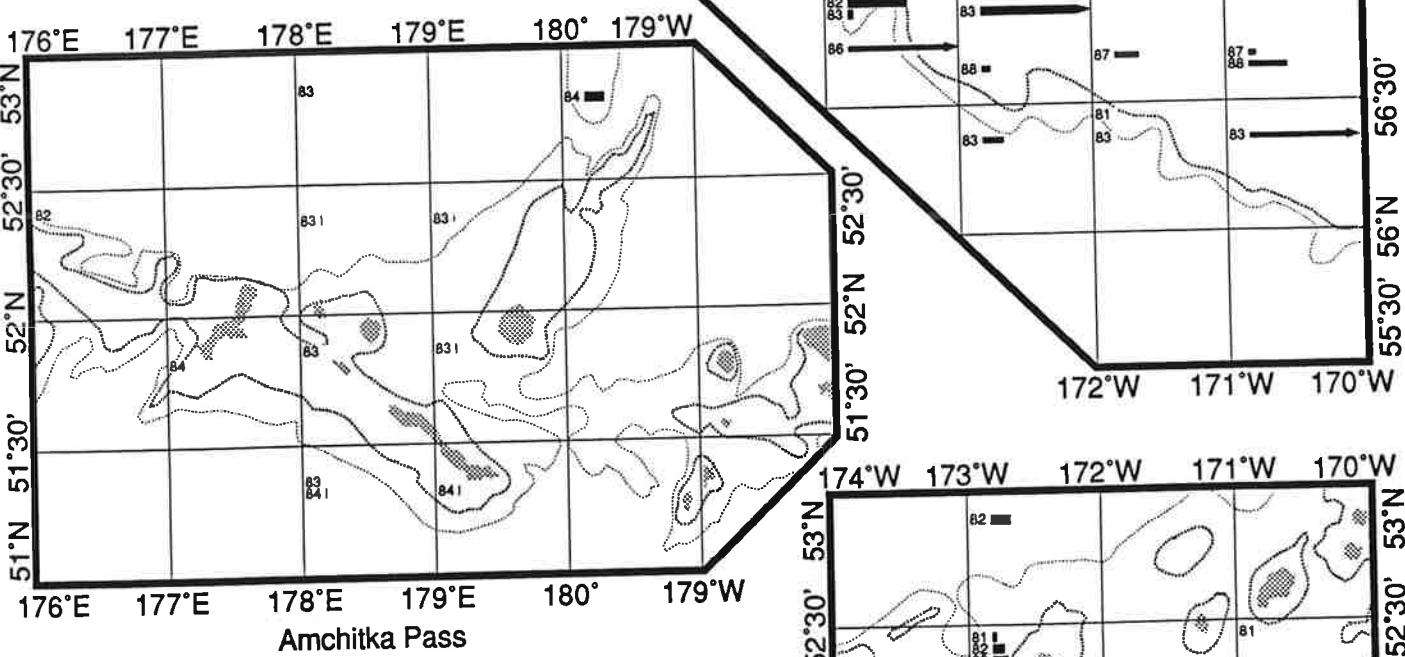
- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 12:33:06



April
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

April

MISCELLANEOUS SPECIES

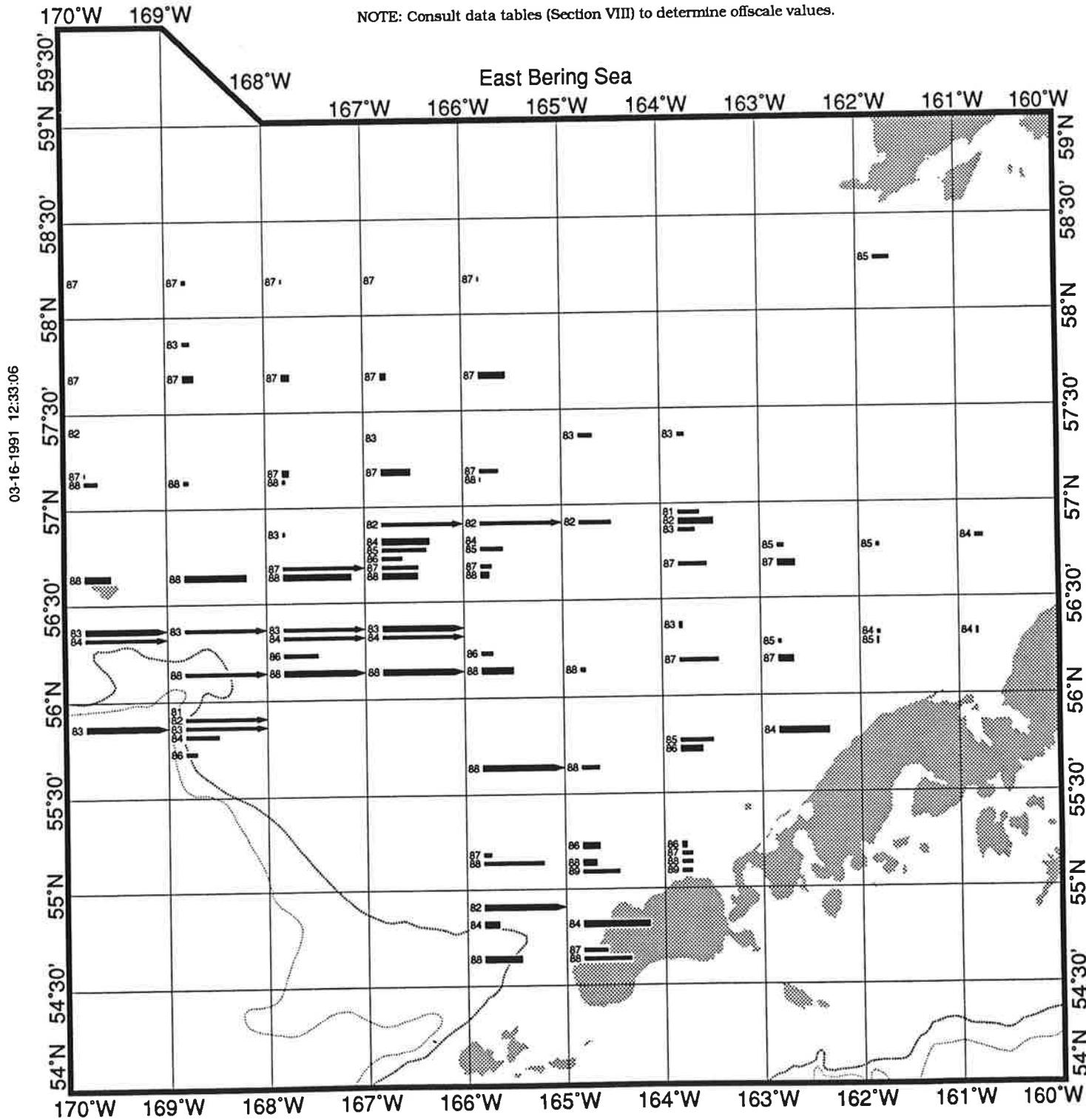
Halibut Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

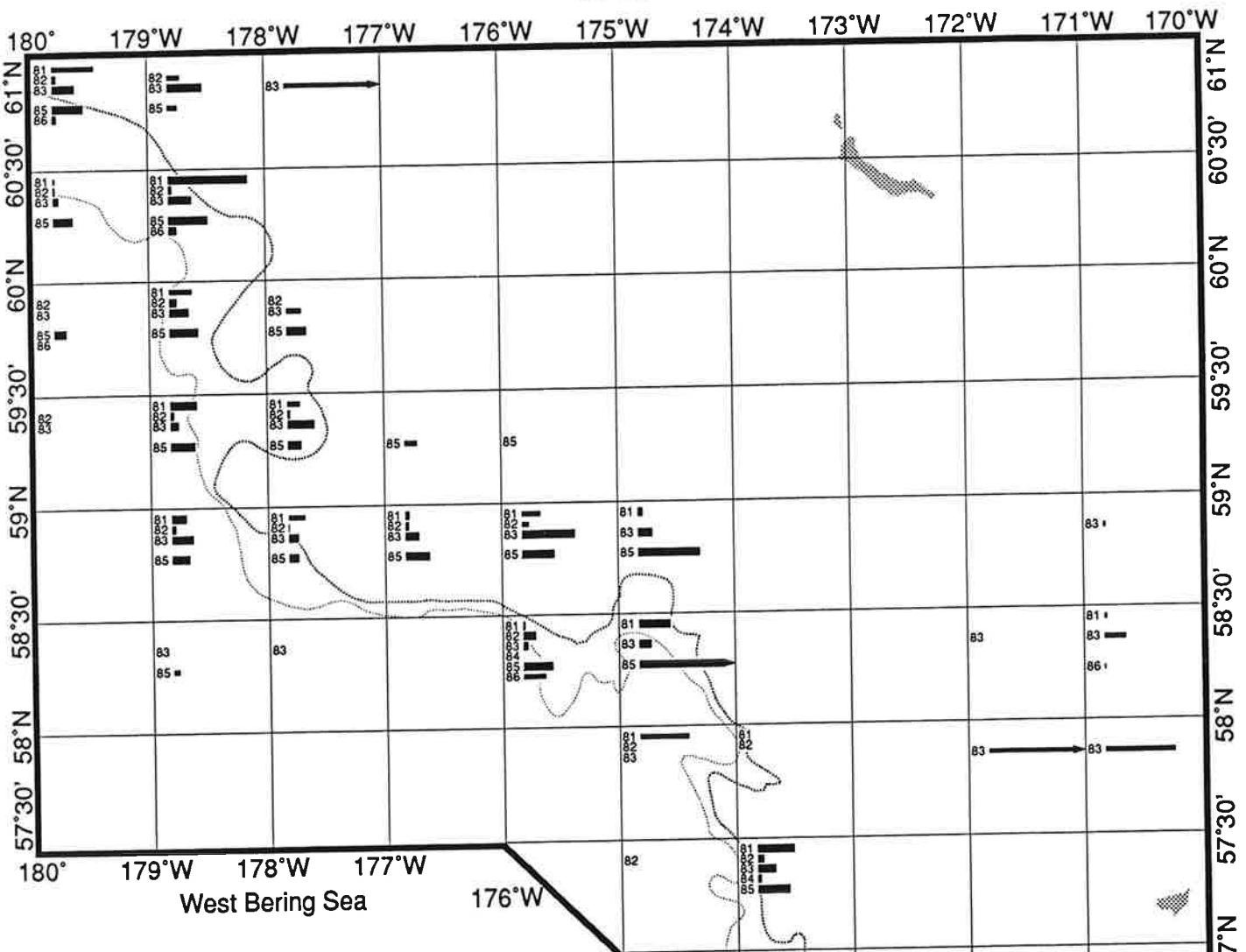
0 1 2 3 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ——▲— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ——— 1987 Bycatch Rate Zero.

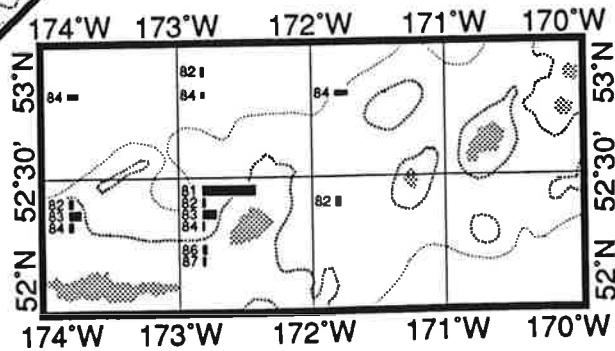
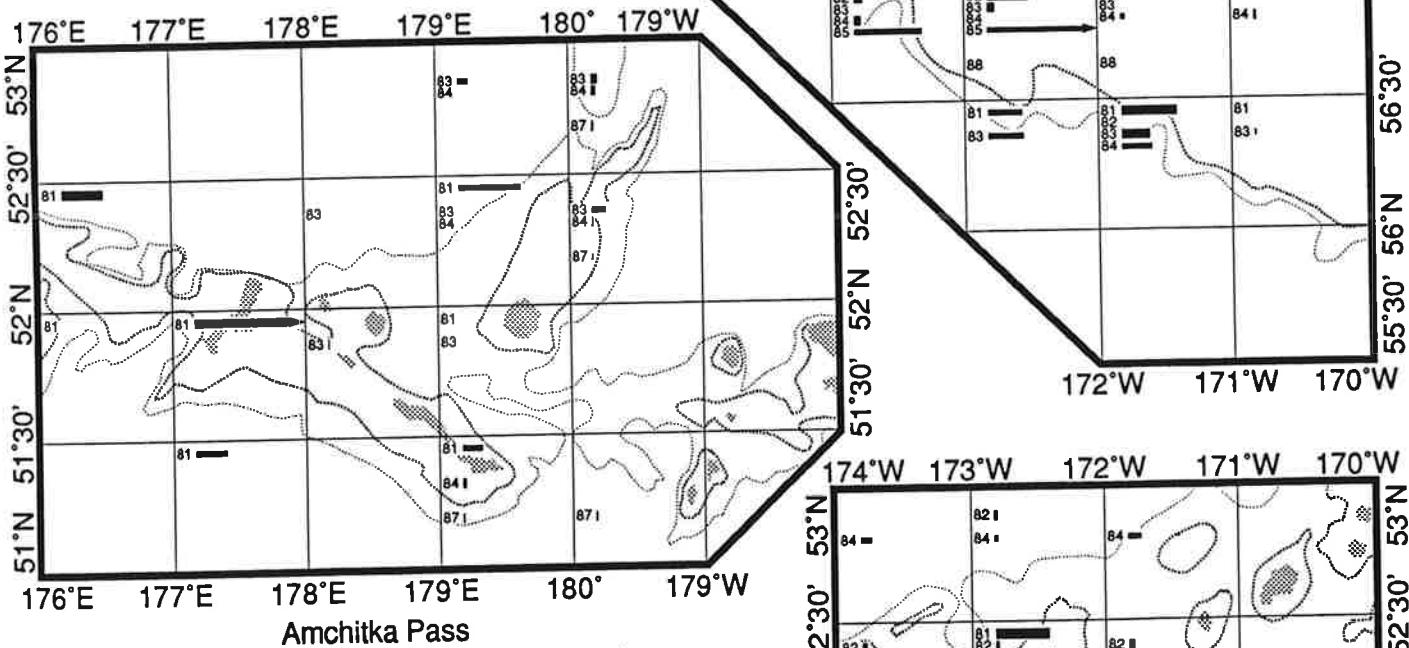
NOTE: Consult data tables (Section VIII) to determine offscale values.



IV-10



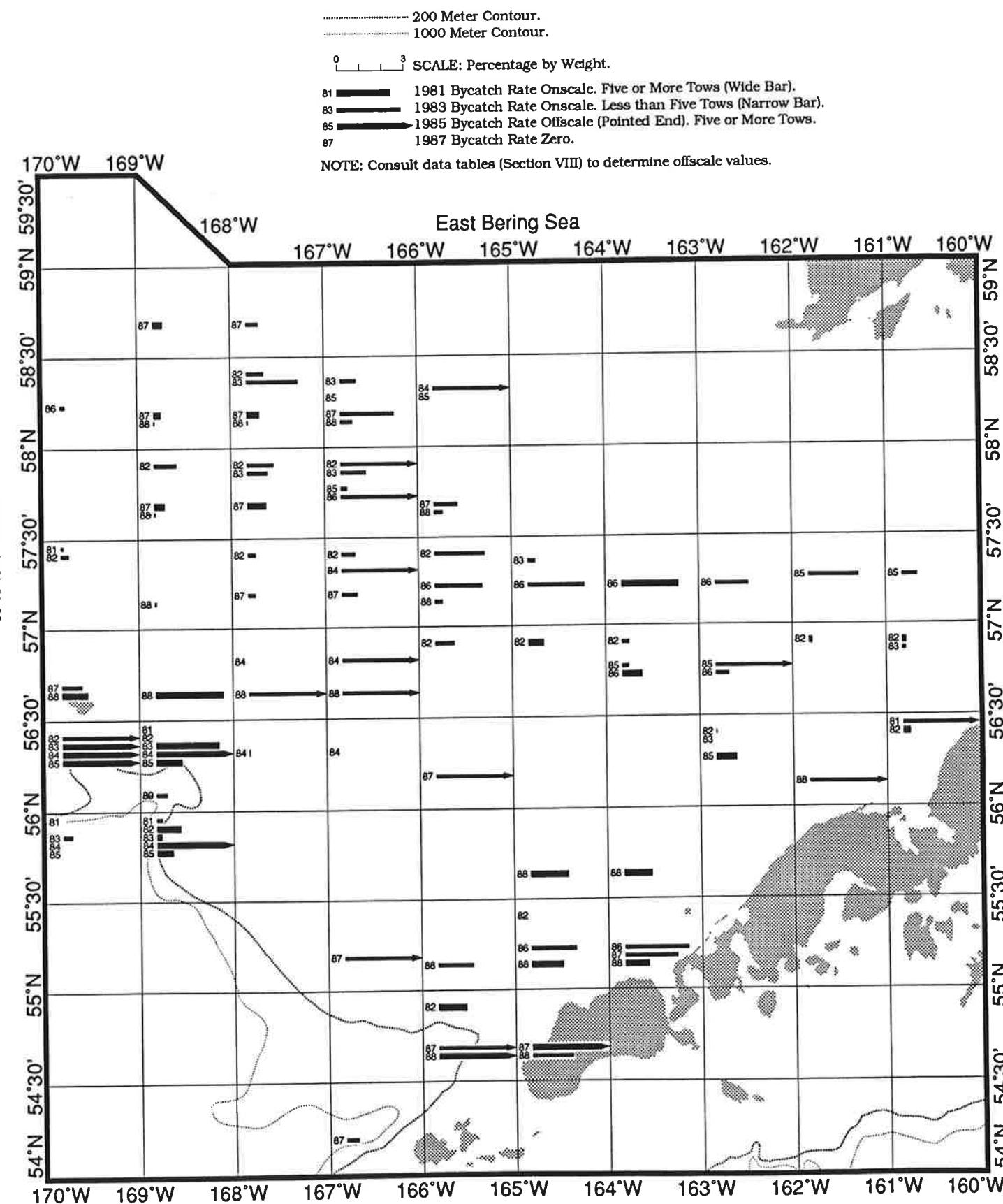
03-16-1991 12:33:06



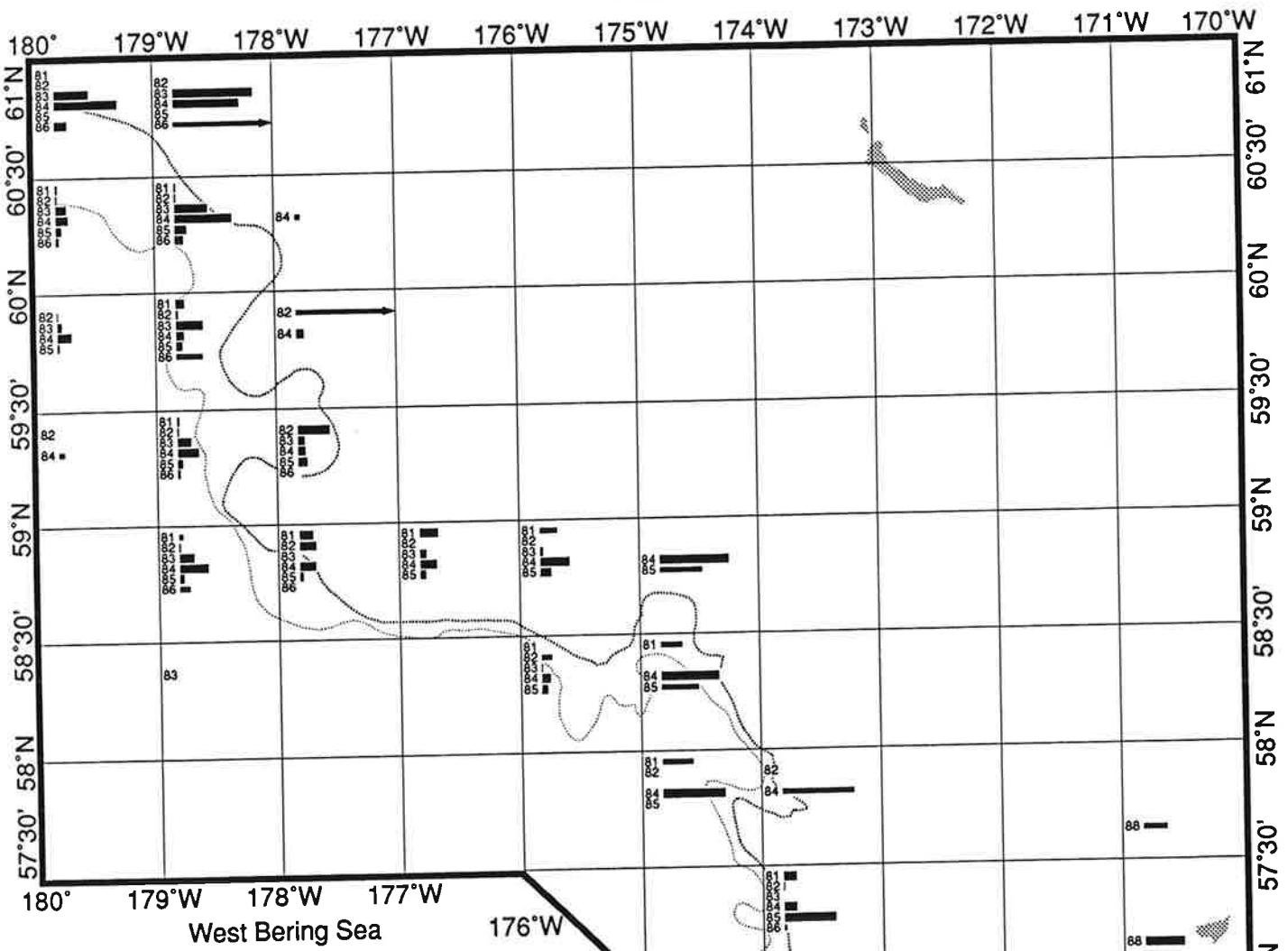
May
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

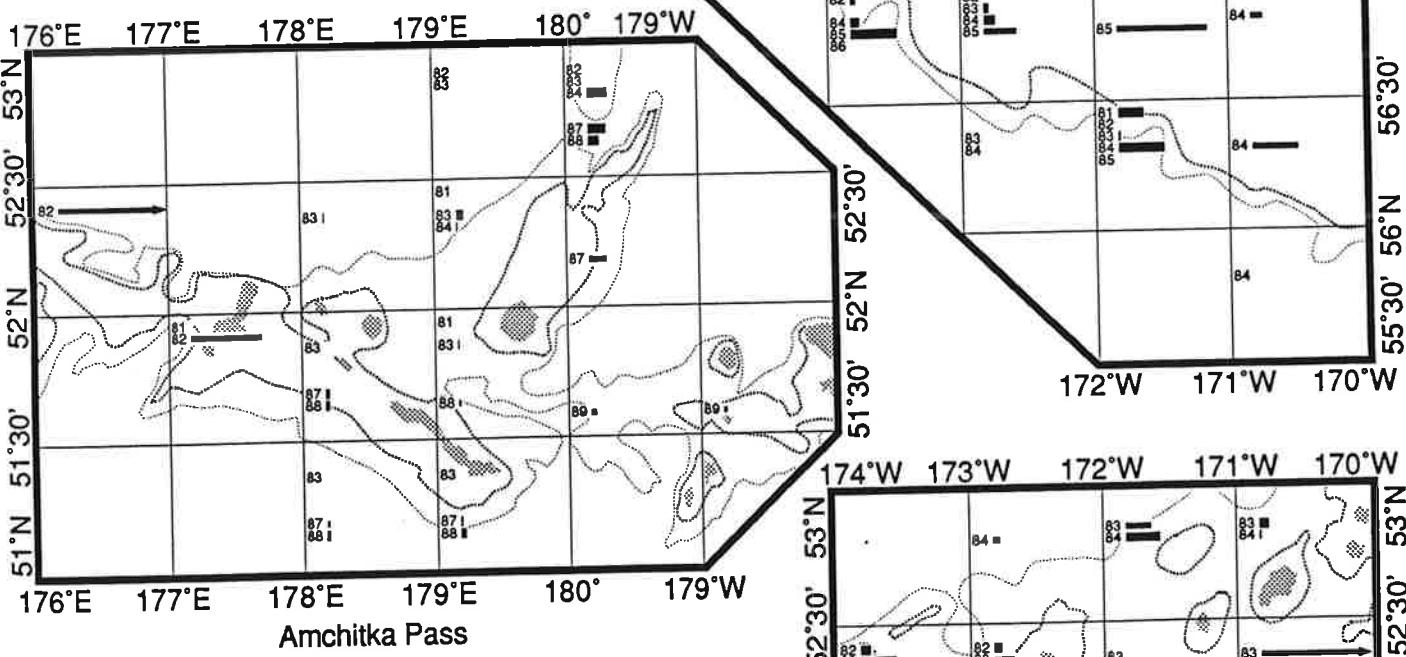
May
MISCELLANEOUS SPECIES
Halibut Bycatch Rate



IV-12

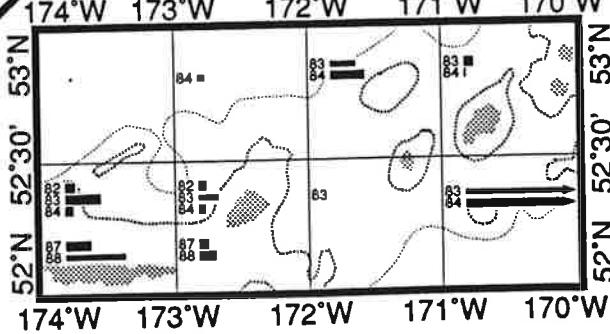


03-16-1991 12:33:06



June
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

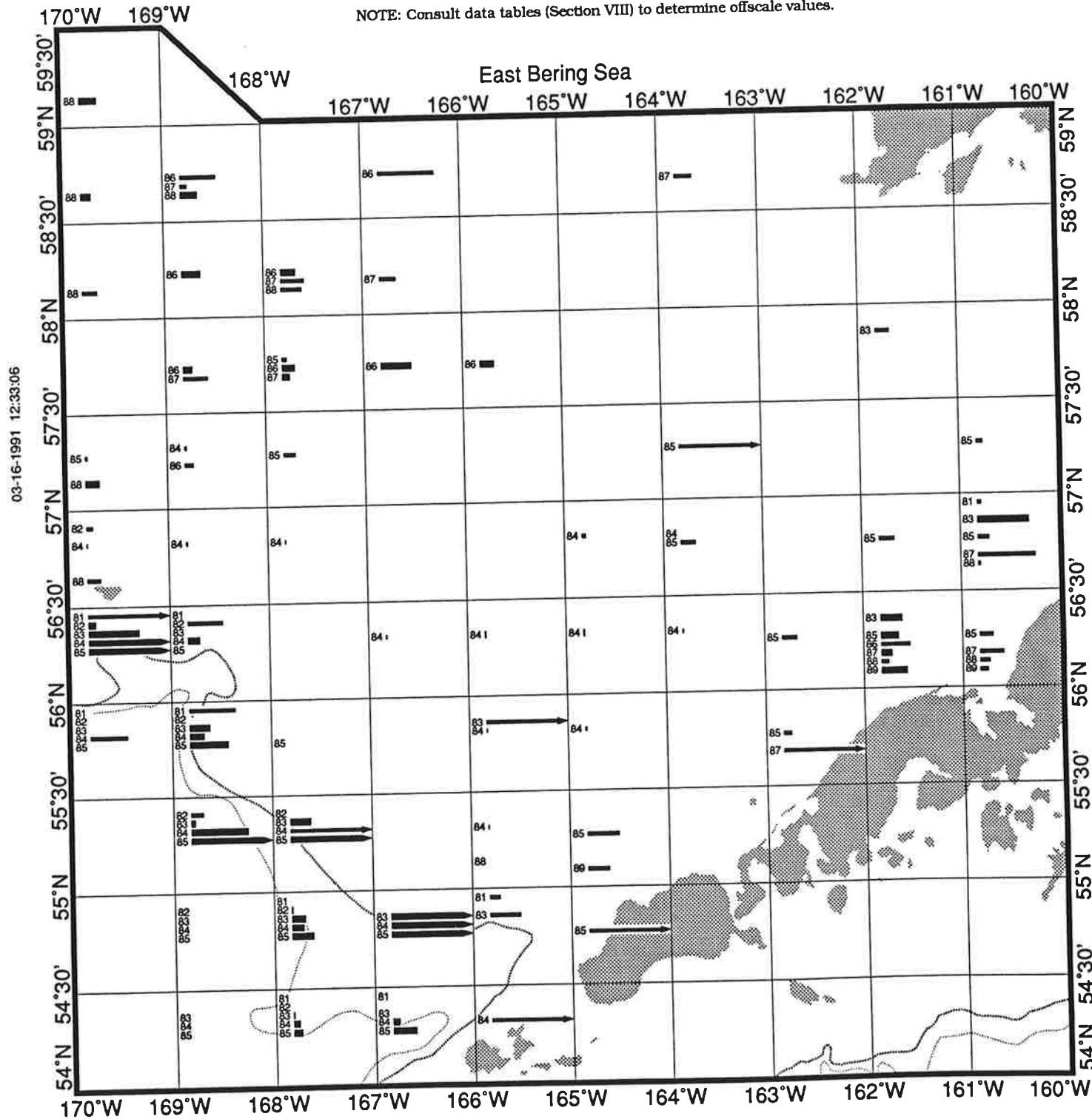
June
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

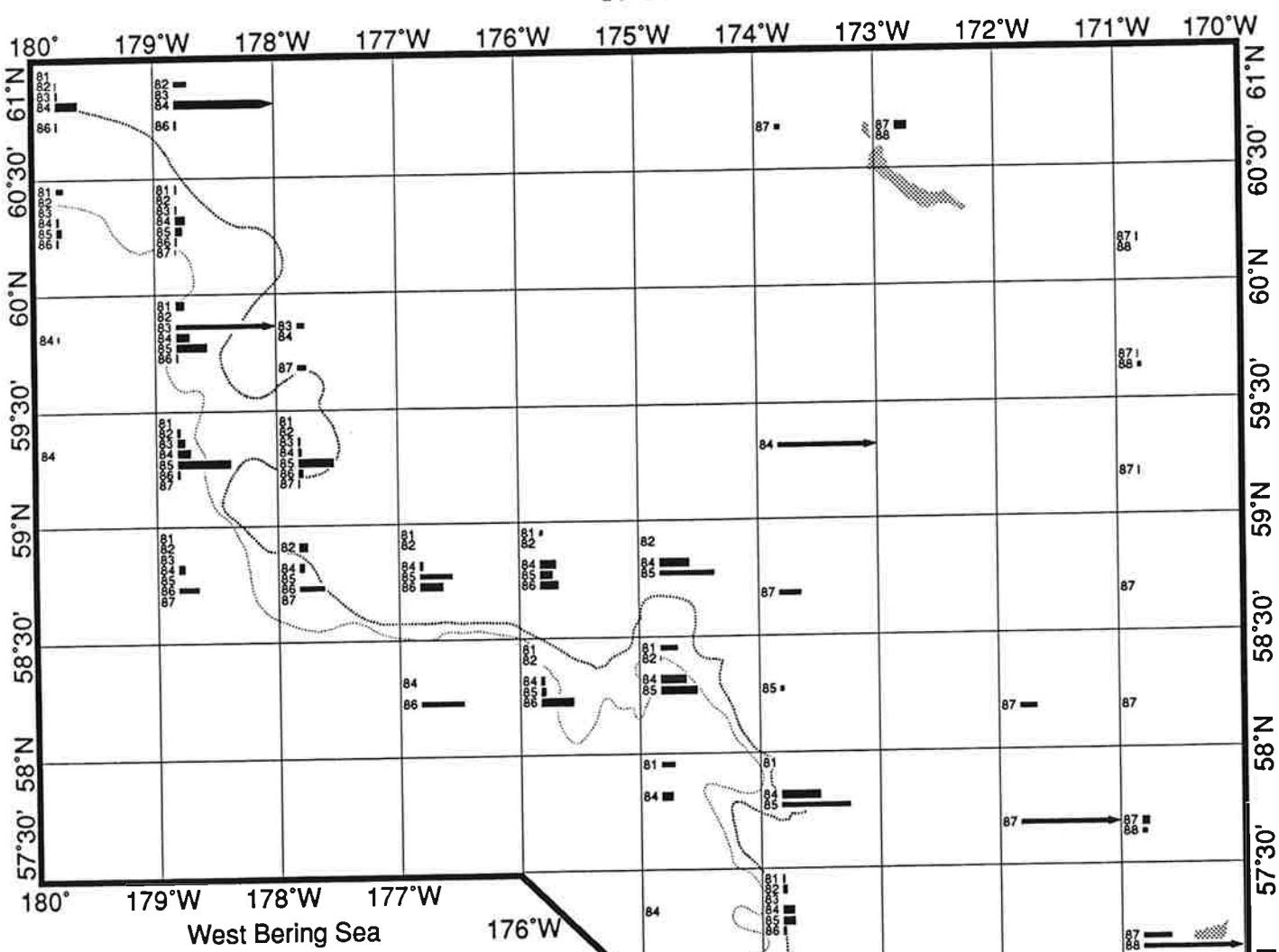
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 3 SCALE: Percentage by Weight.

- 81 ————— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ————— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

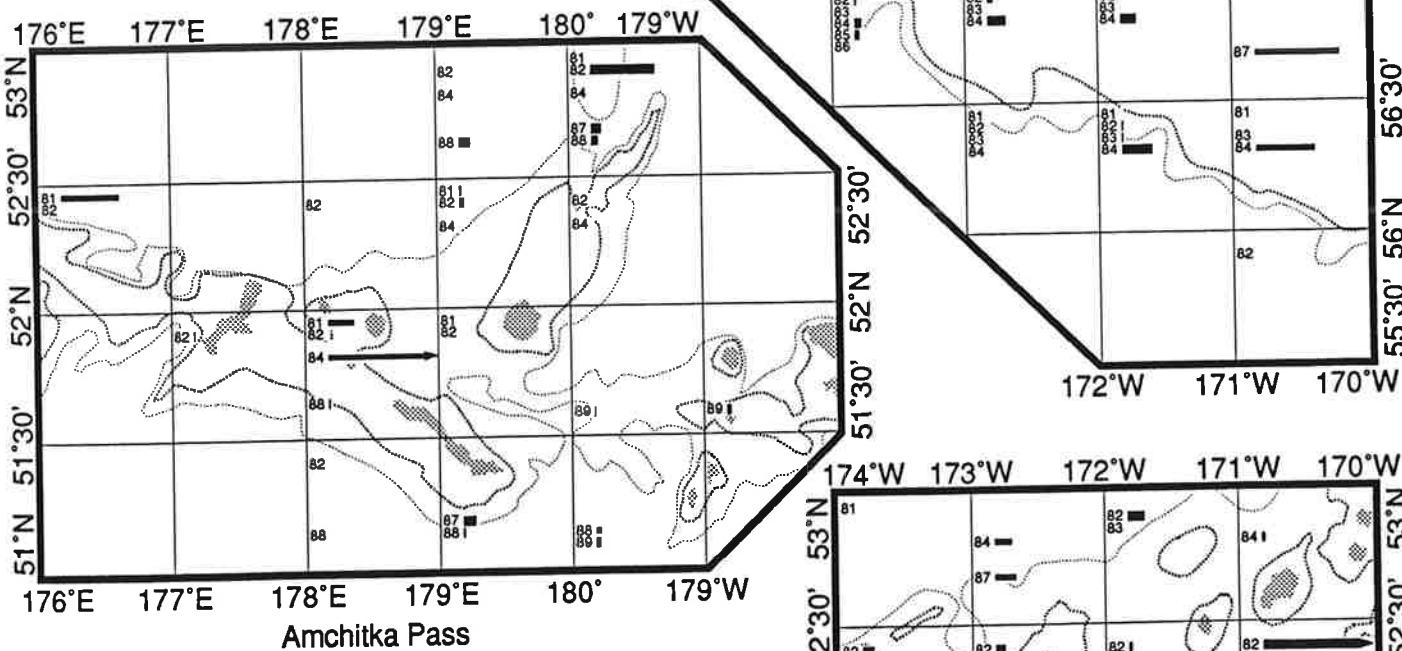
NOTE: Consult data tables (Section VIII) to determine offscale values.





West Bering Sea

03-16-1991 12:33:06



**July
MISCELLANEOUS SPECIES
Halibut Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

July

MISCELLANEOUS SPECIES

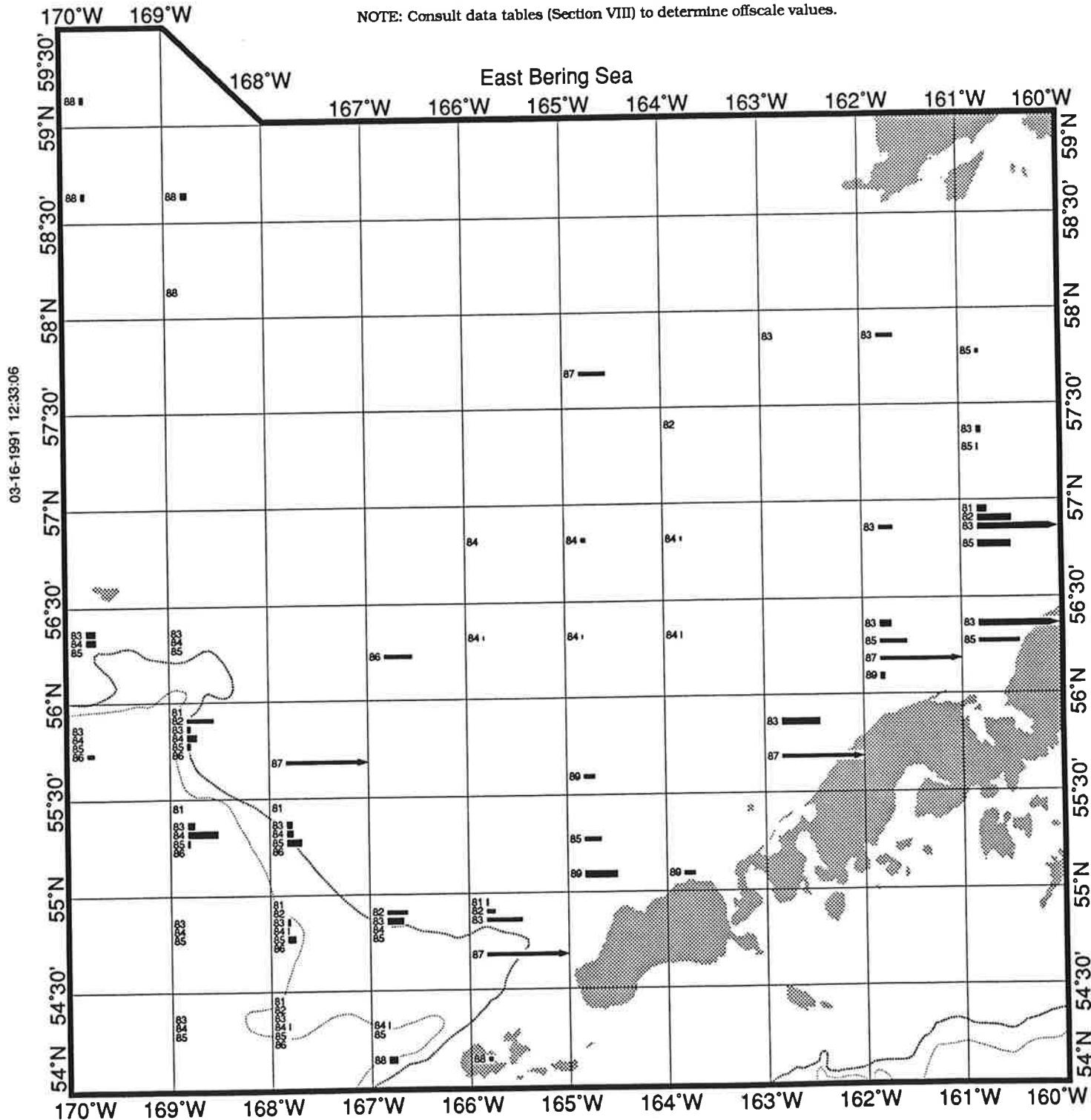
Halibut Bycatch Rate

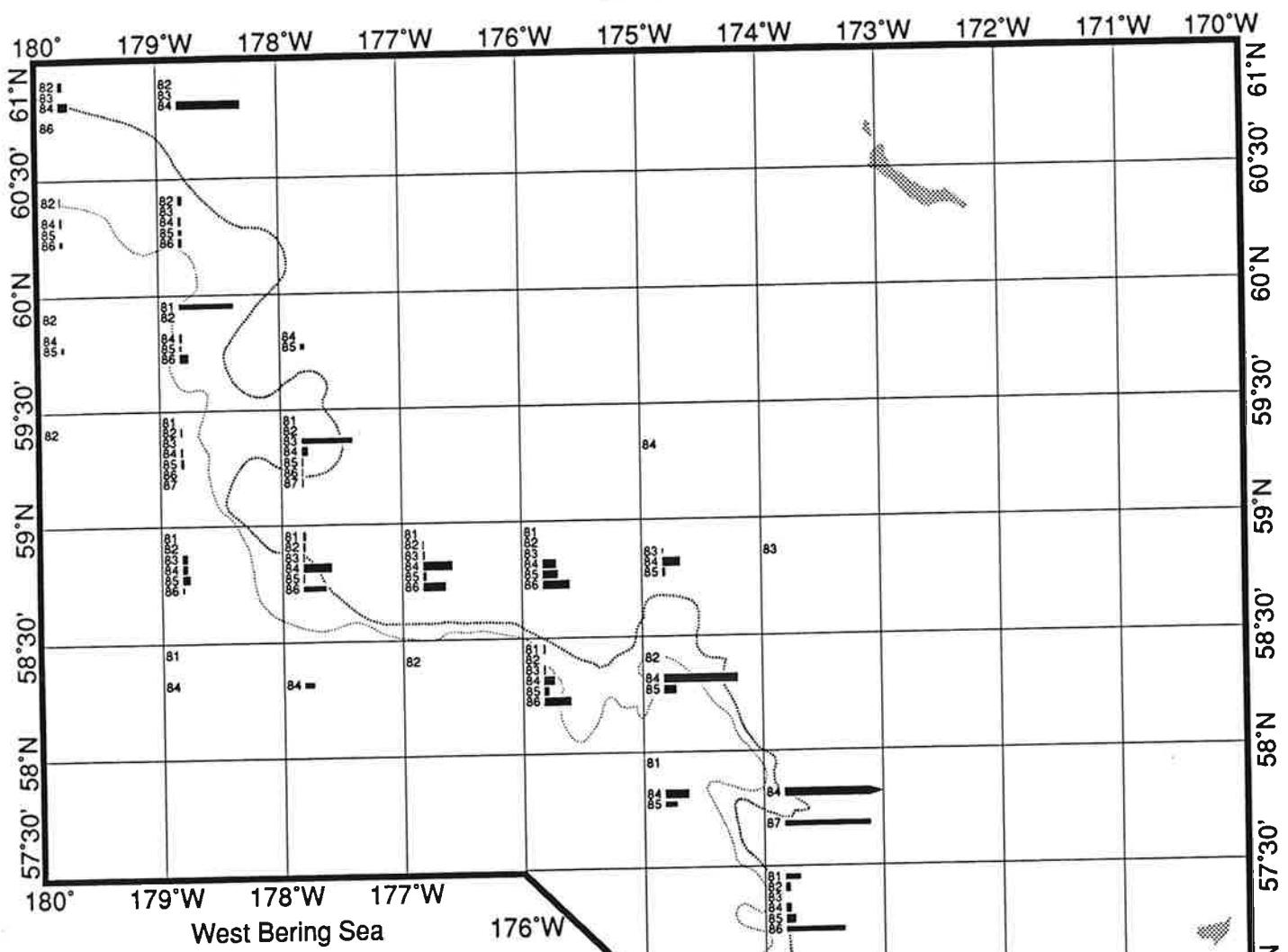
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 1 3 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ——▲— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ——— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

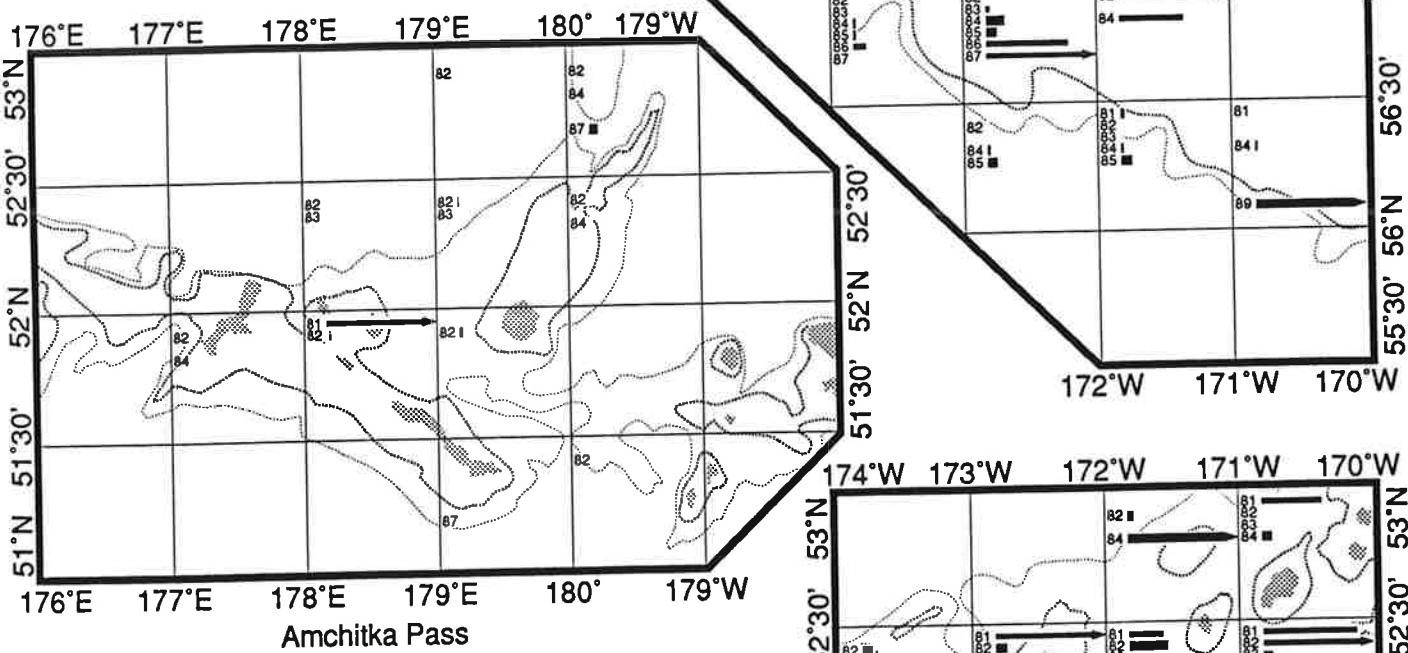




West Bering Sea

176°W

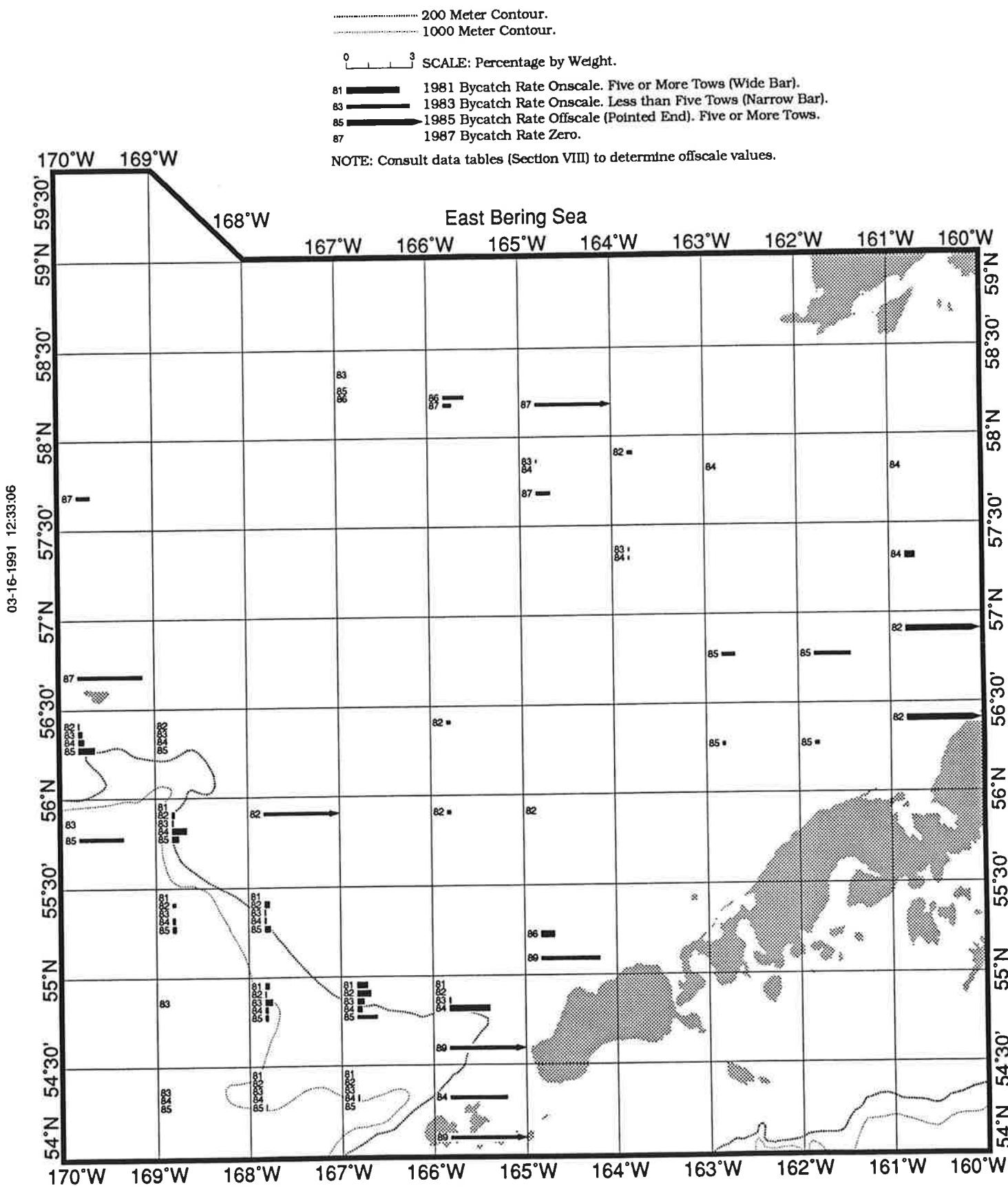
03-16-1991 12:33:06



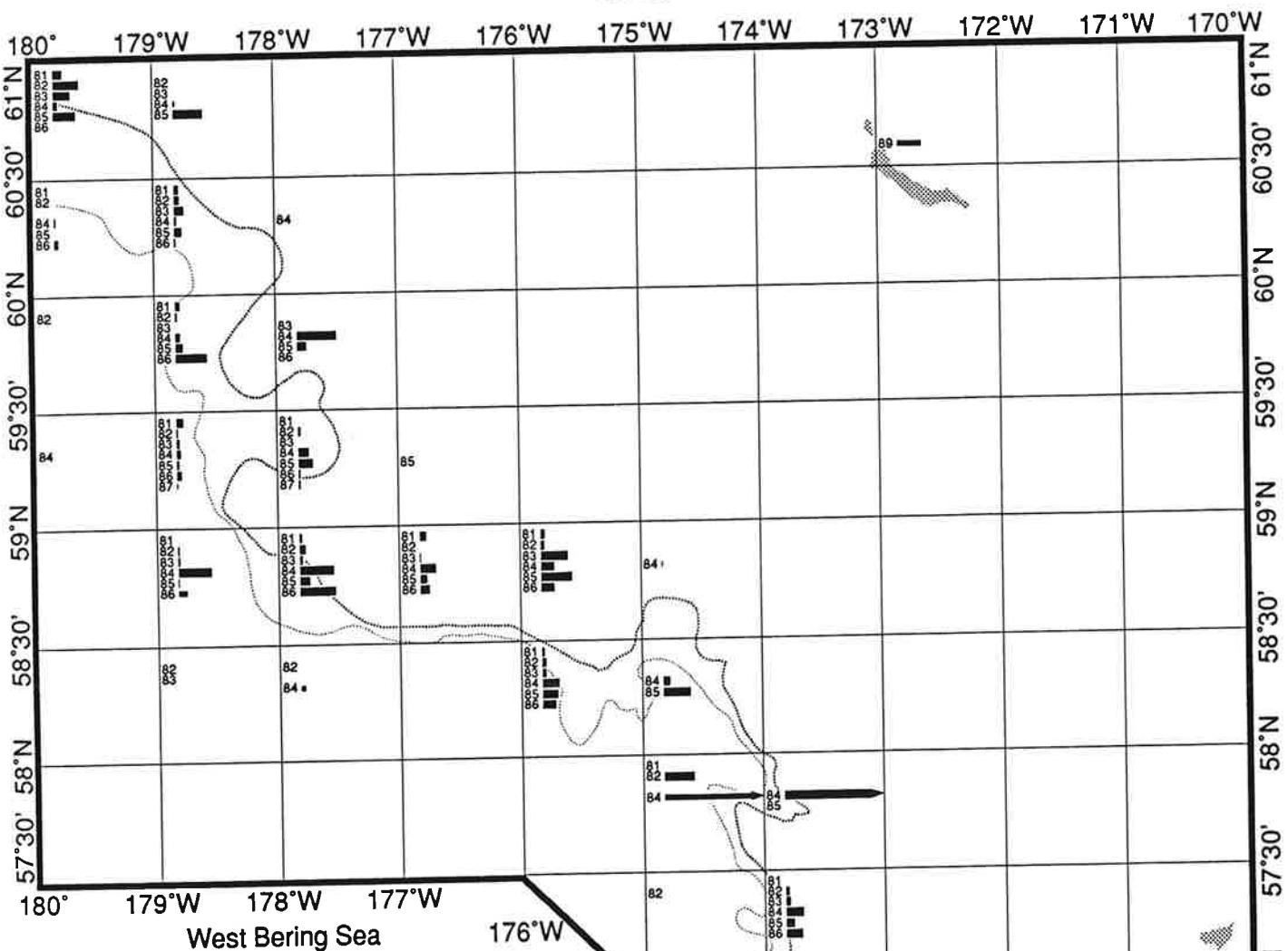
August
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

August
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

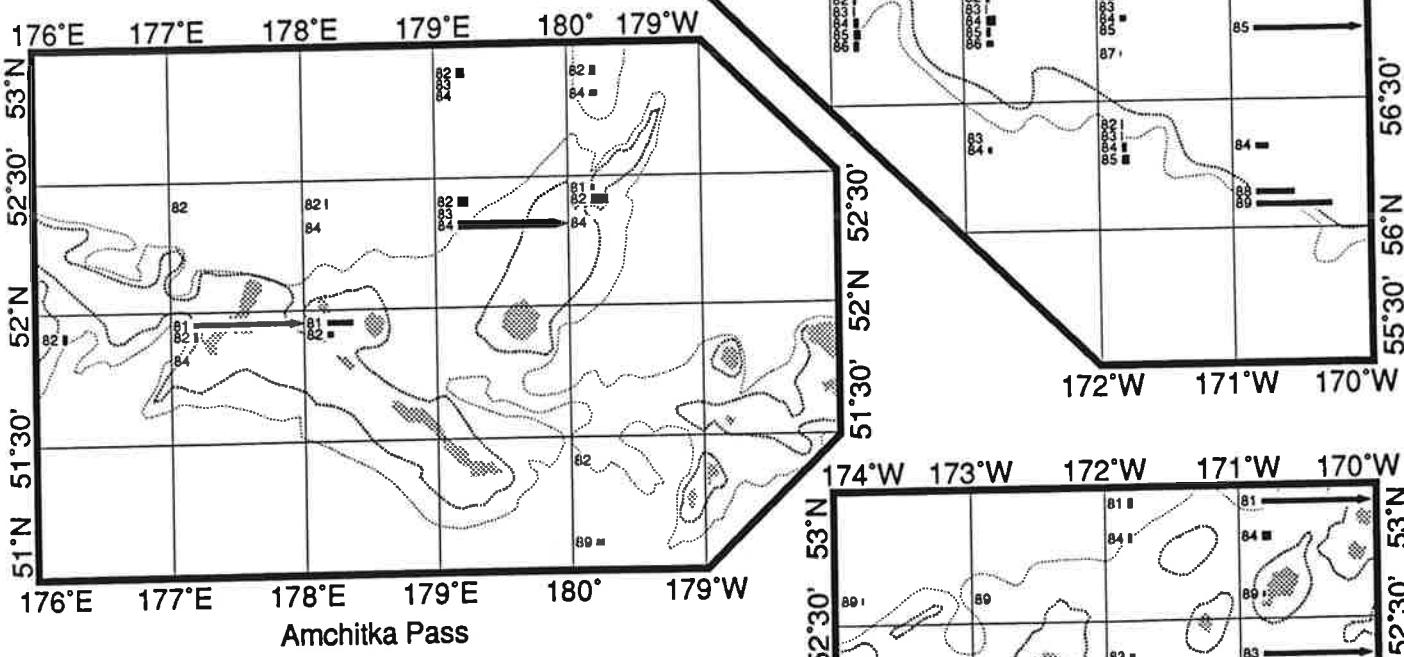


IV-18



West Bering Sea

03-16-1991 12:33:06



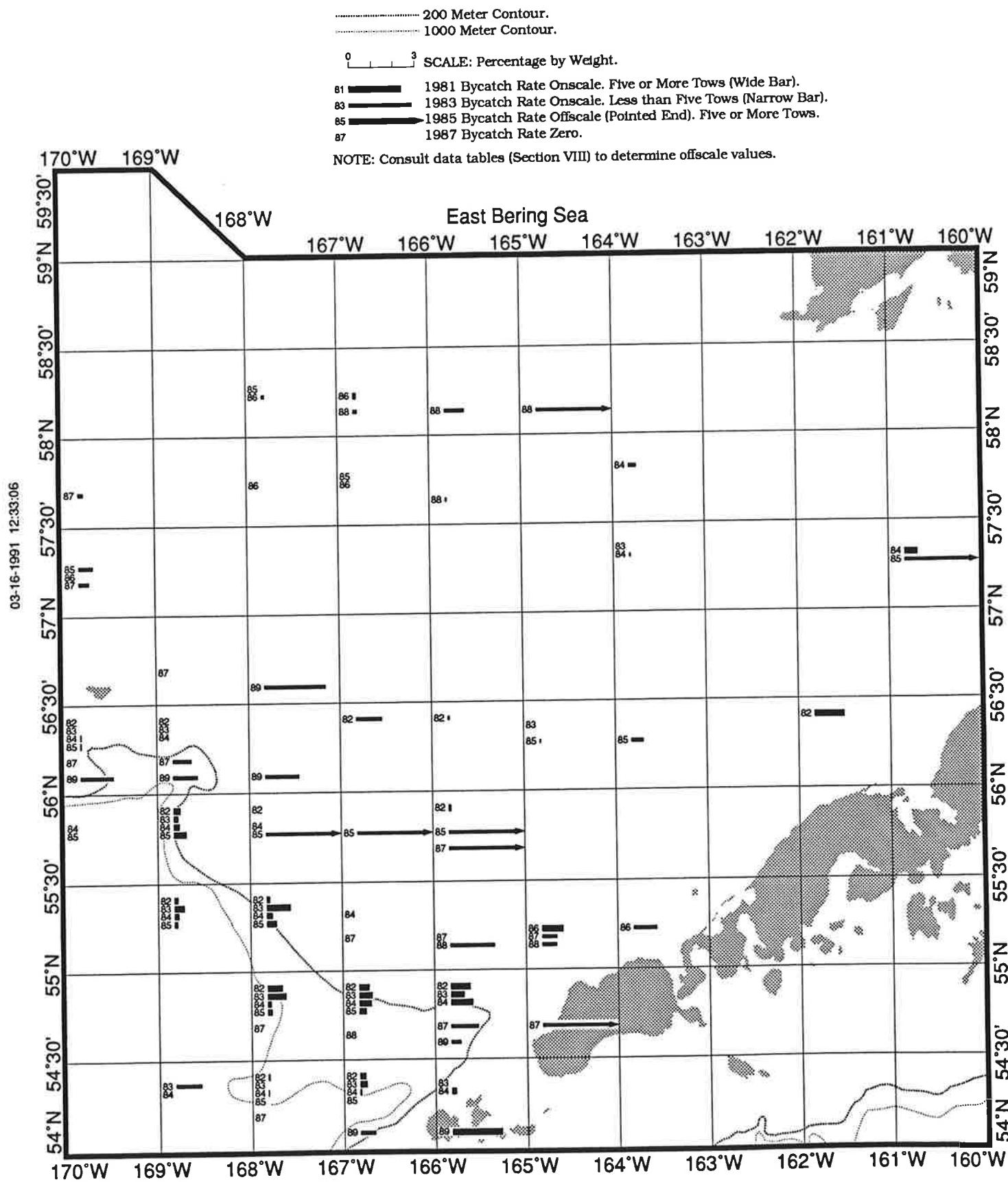
Amchitka Pass

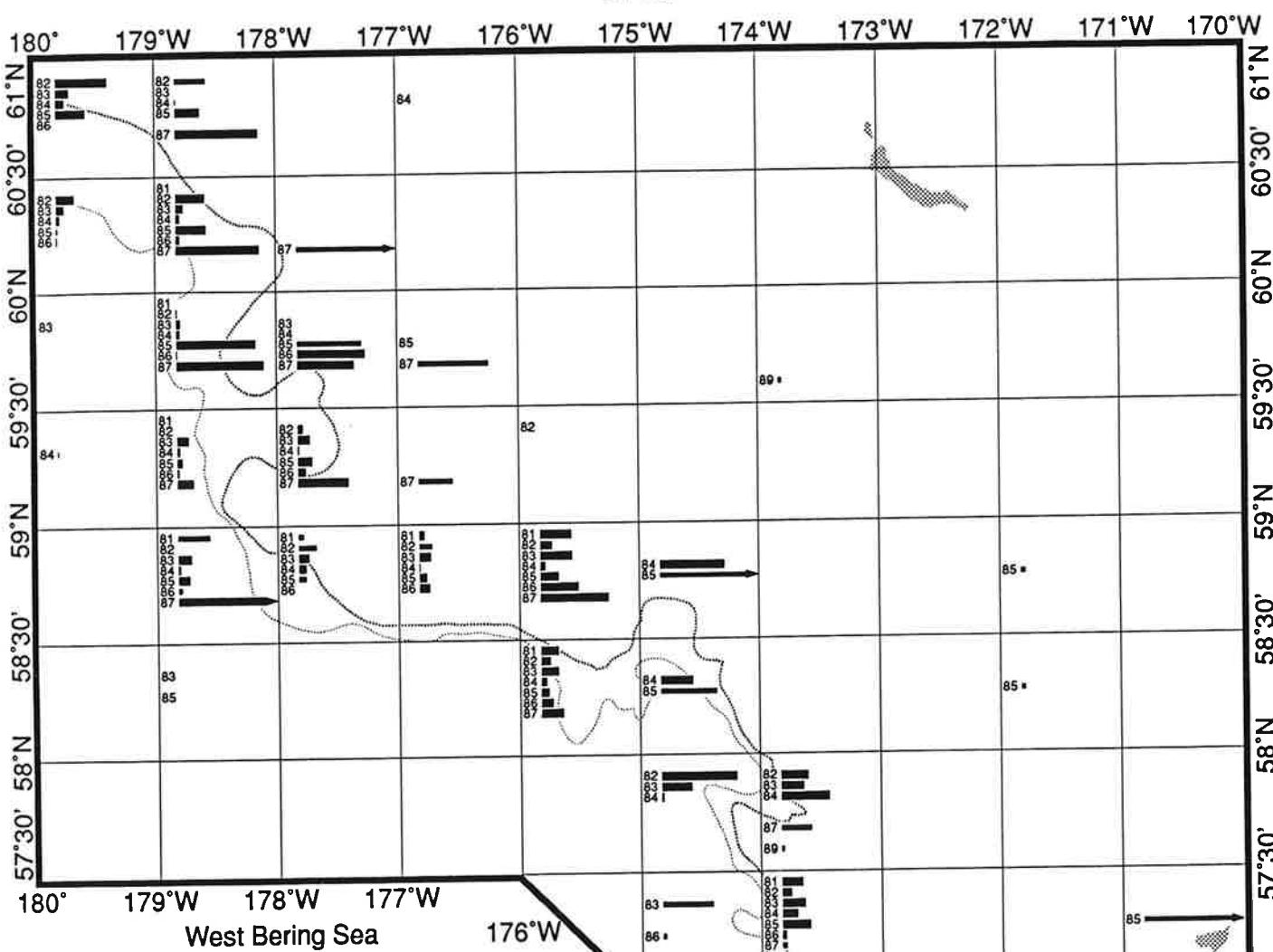
Seguam Pass

September
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

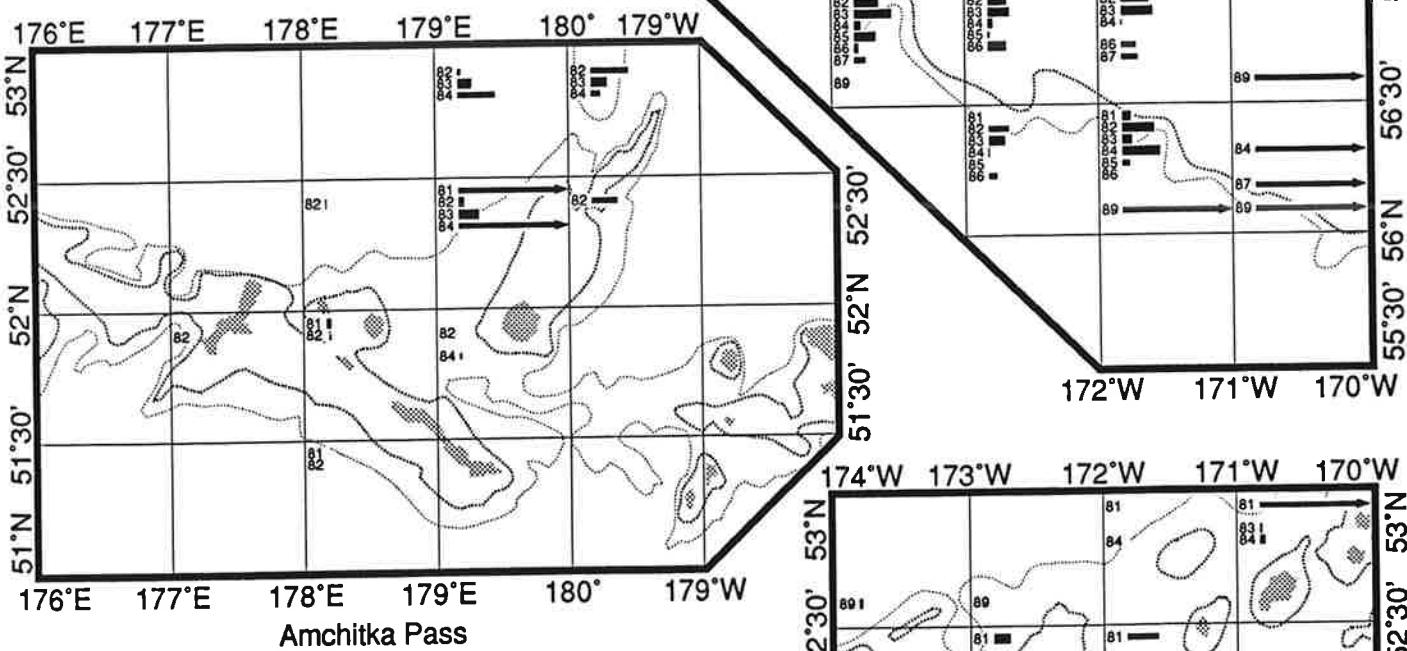
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

September
MISCELLANEOUS SPECIES
Halibut Bycatch Rate





03-16-1991 12:33:06



October
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass

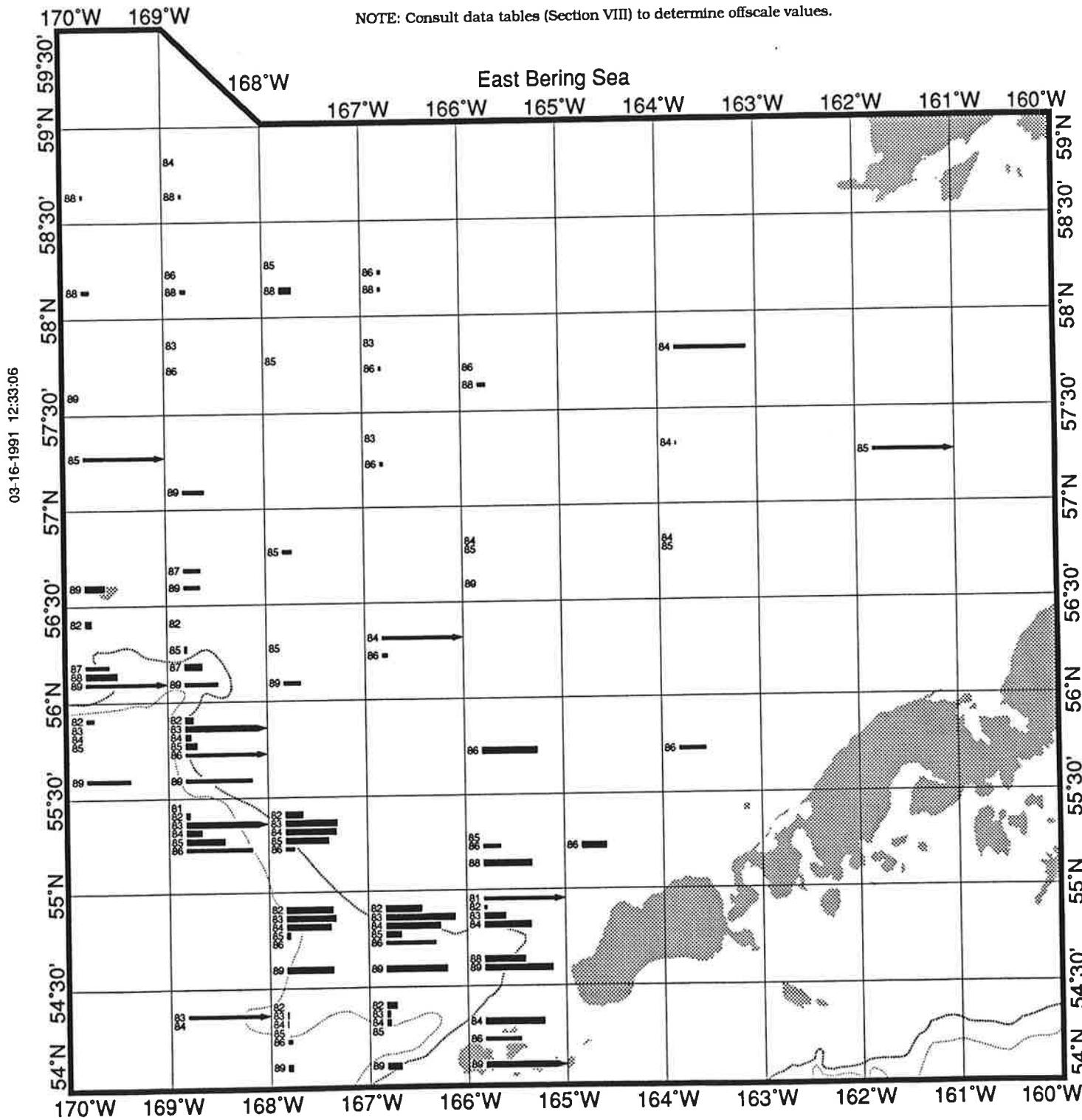
October
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

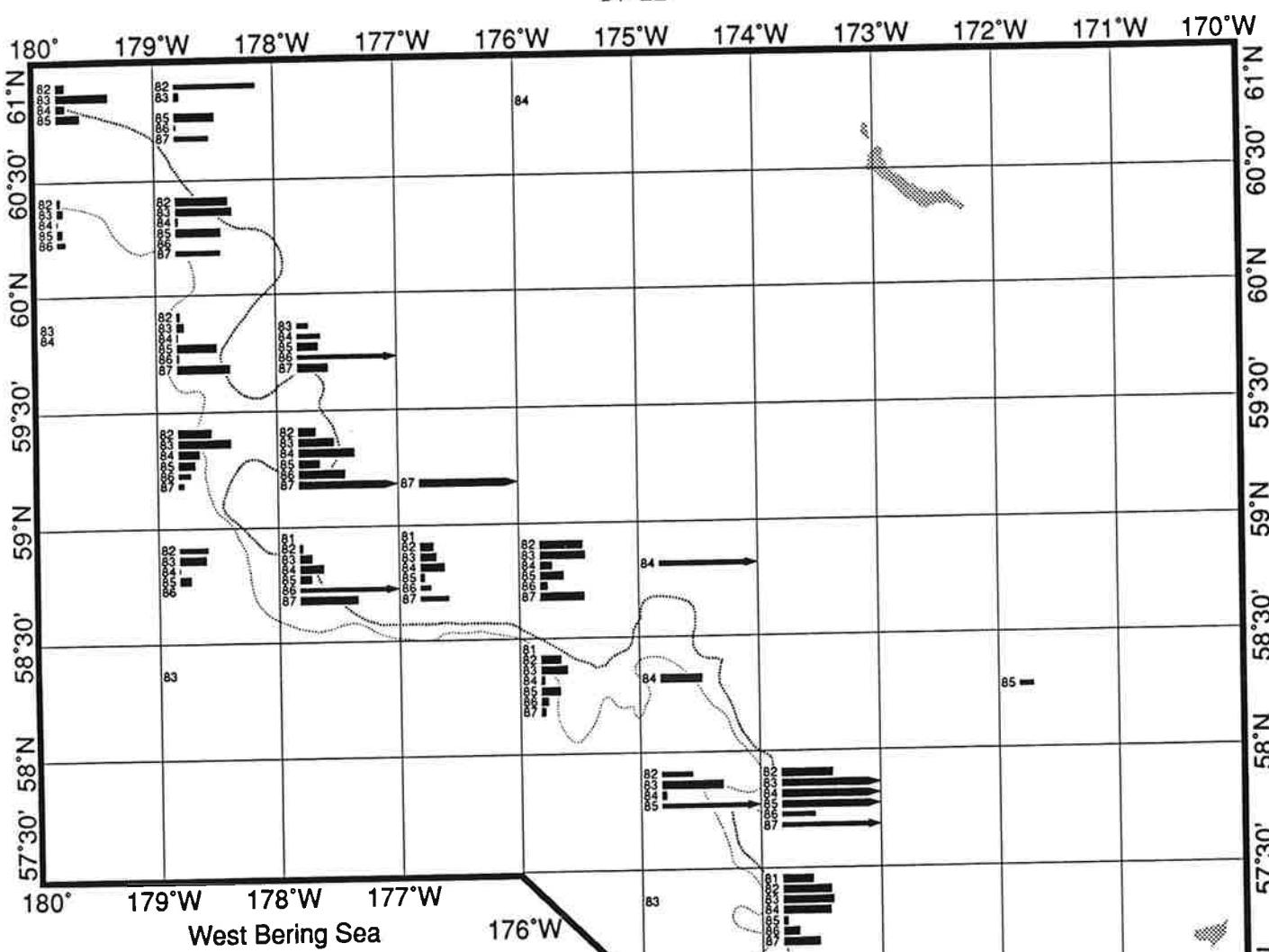
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 3 SCALE: Percentage by Weight.

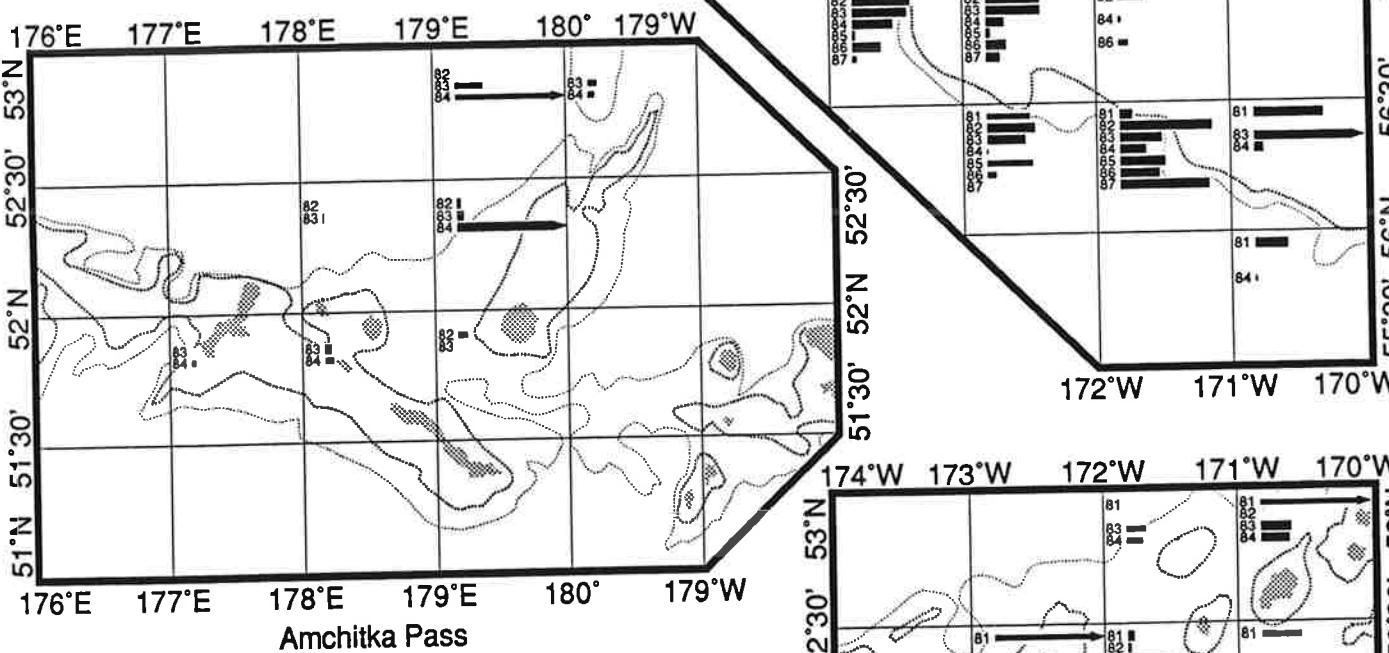
- 81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 12:33:06

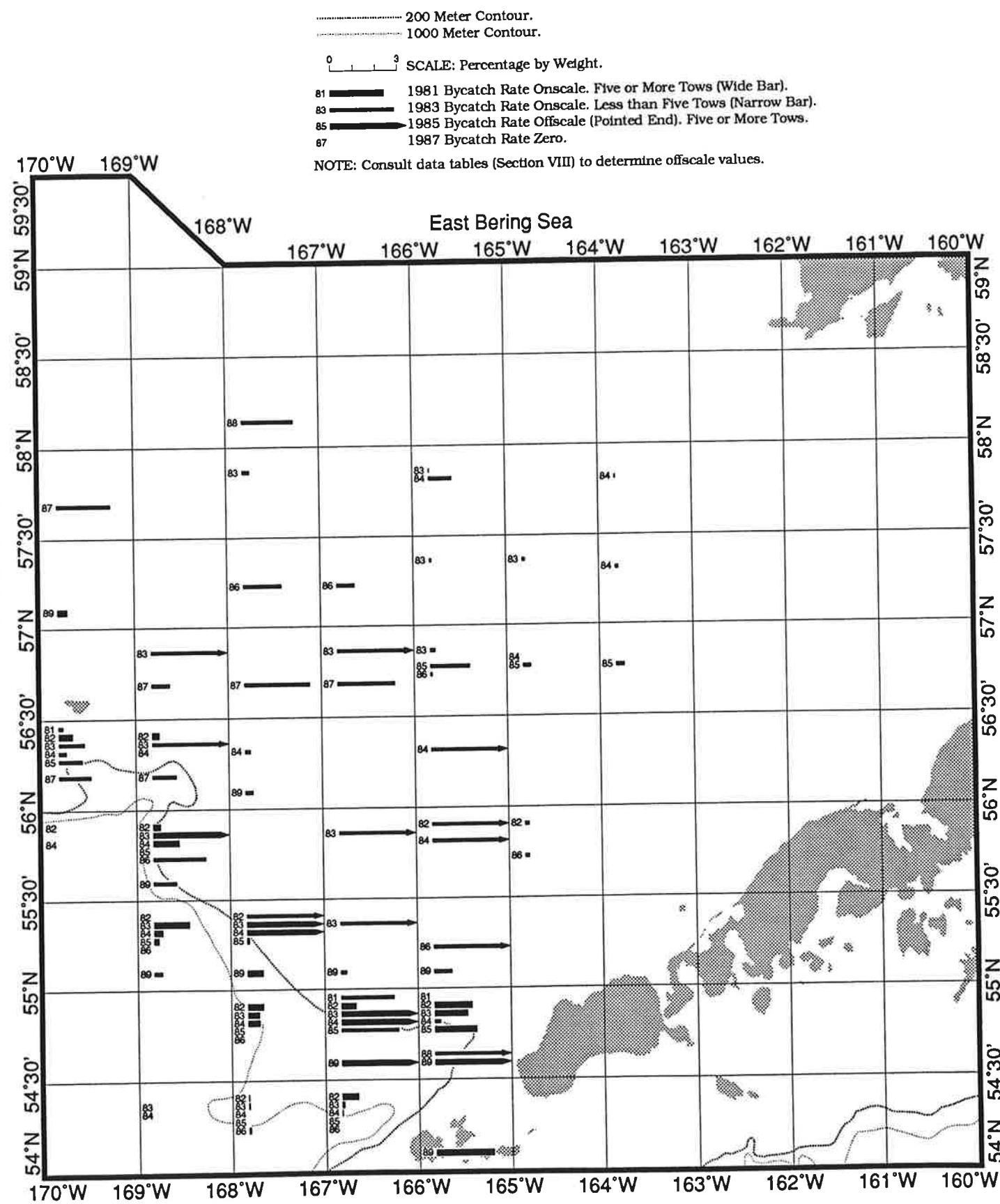


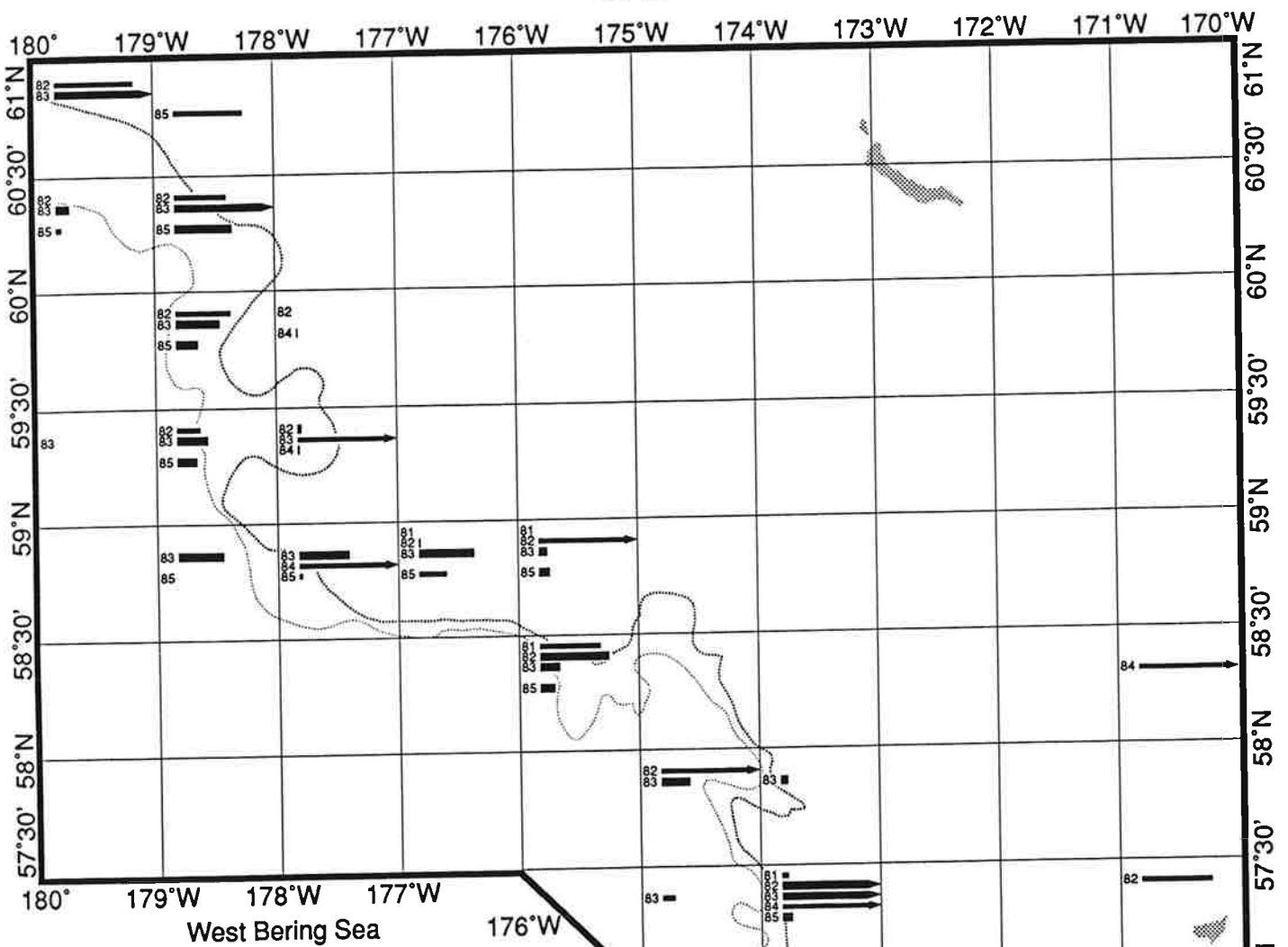
**November MISCELLANEOUS SPECIES
Halibut Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

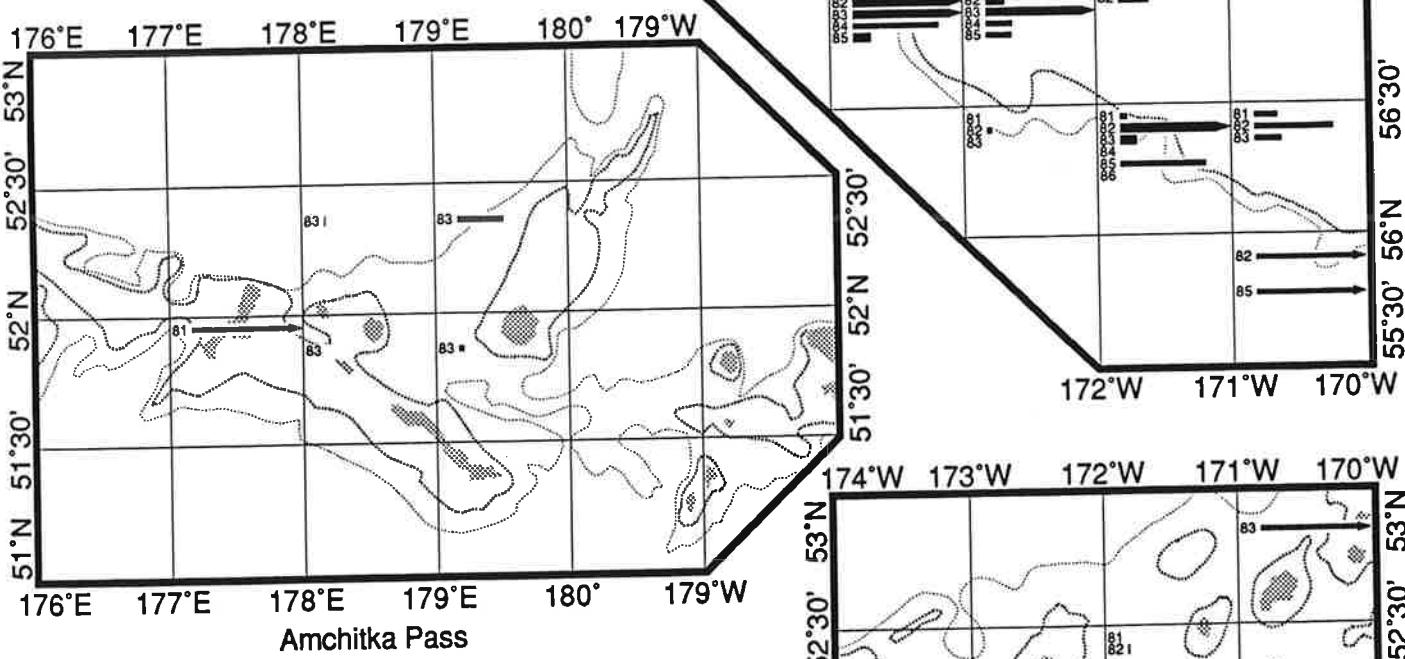
November
MISCELLANEOUS SPECIES
Halibut Bycatch Rate





09-16-1991 12:33:06

West Bering Sea



December
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

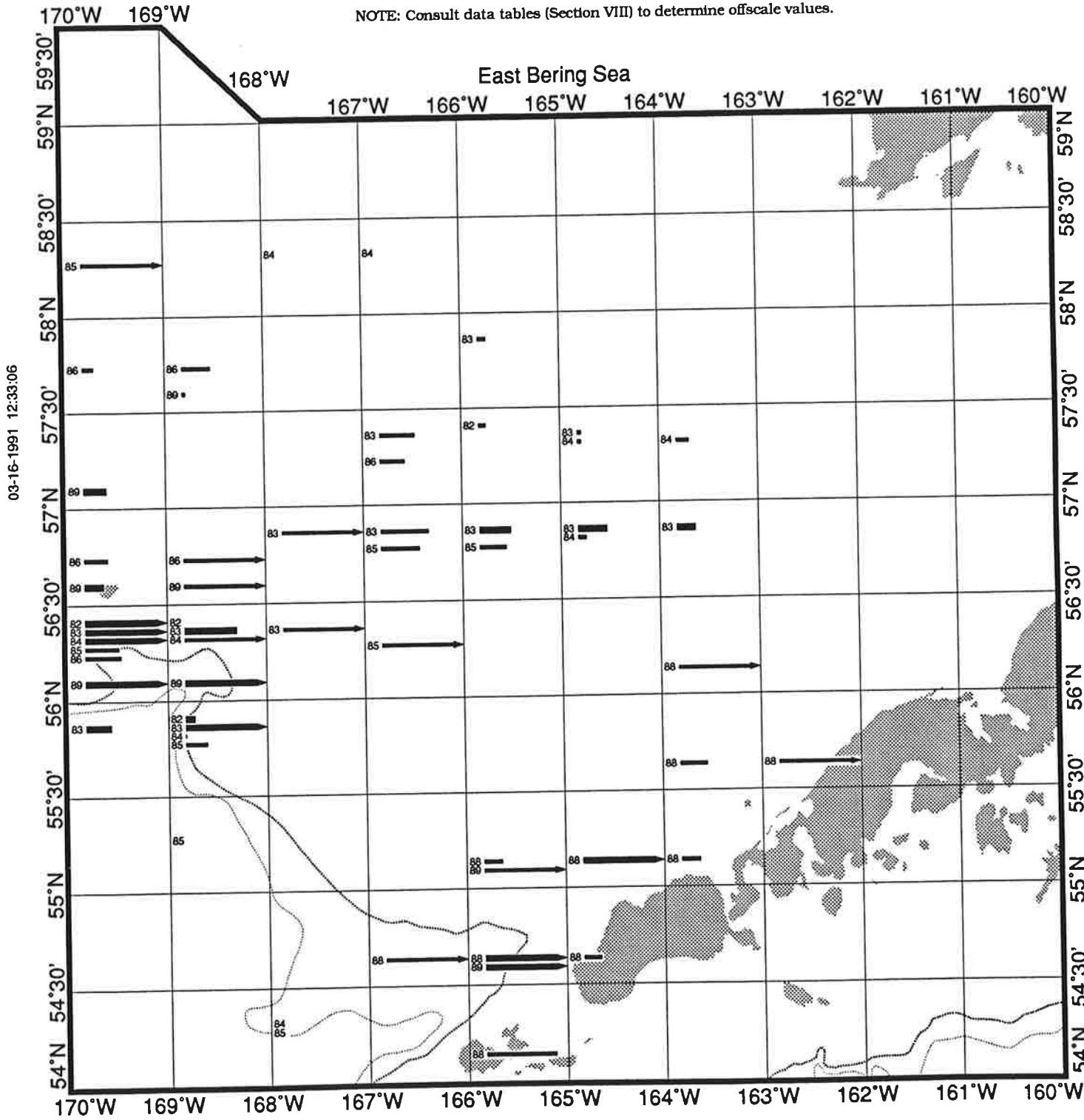
December
MISCELLANEOUS SPECIES
Halibut Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

0 3 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ——— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ——— 1987 Bycatch Rate Zero.

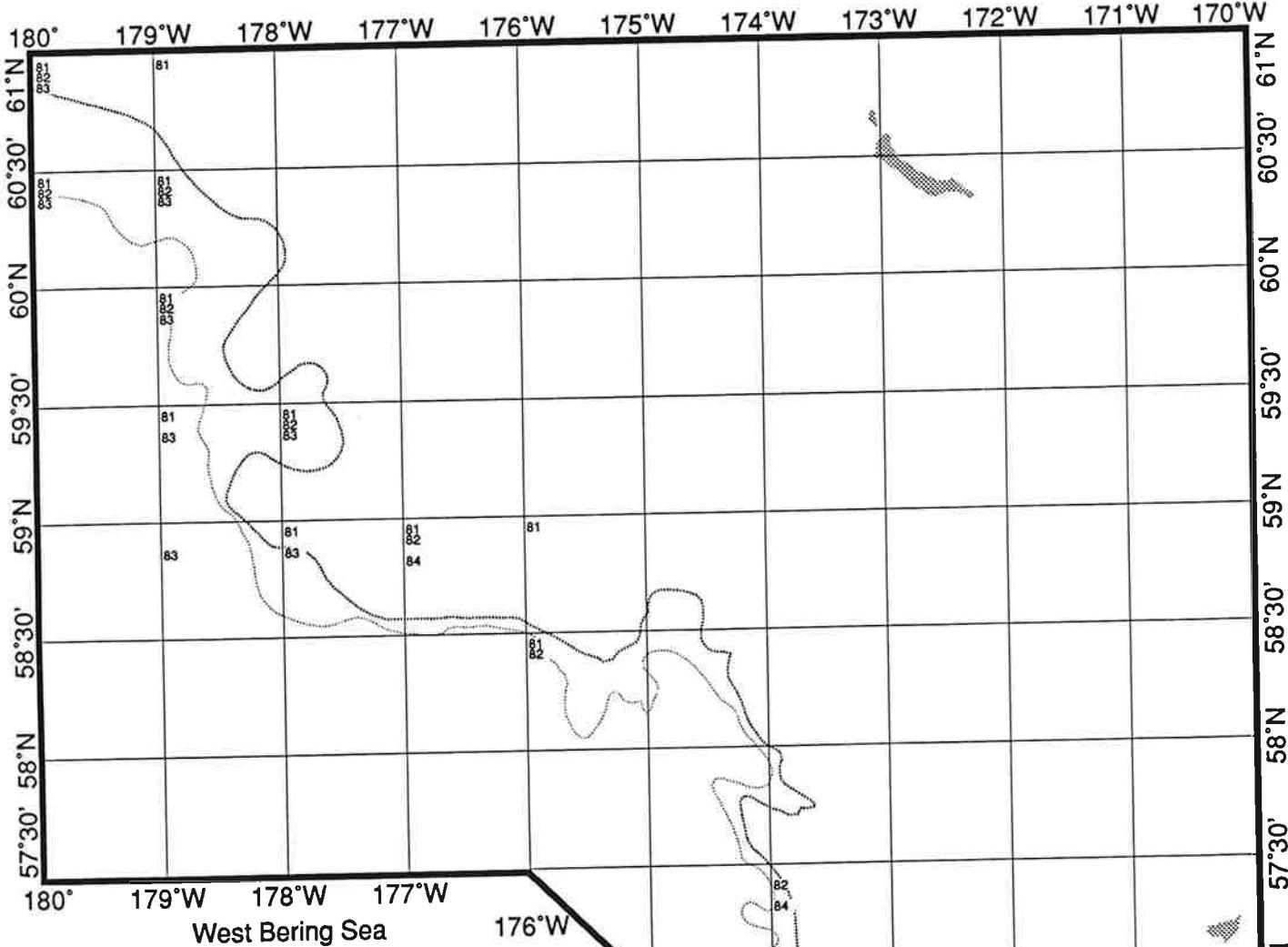
NOTE: Consult data tables (Section VIII) to determine offscale values.



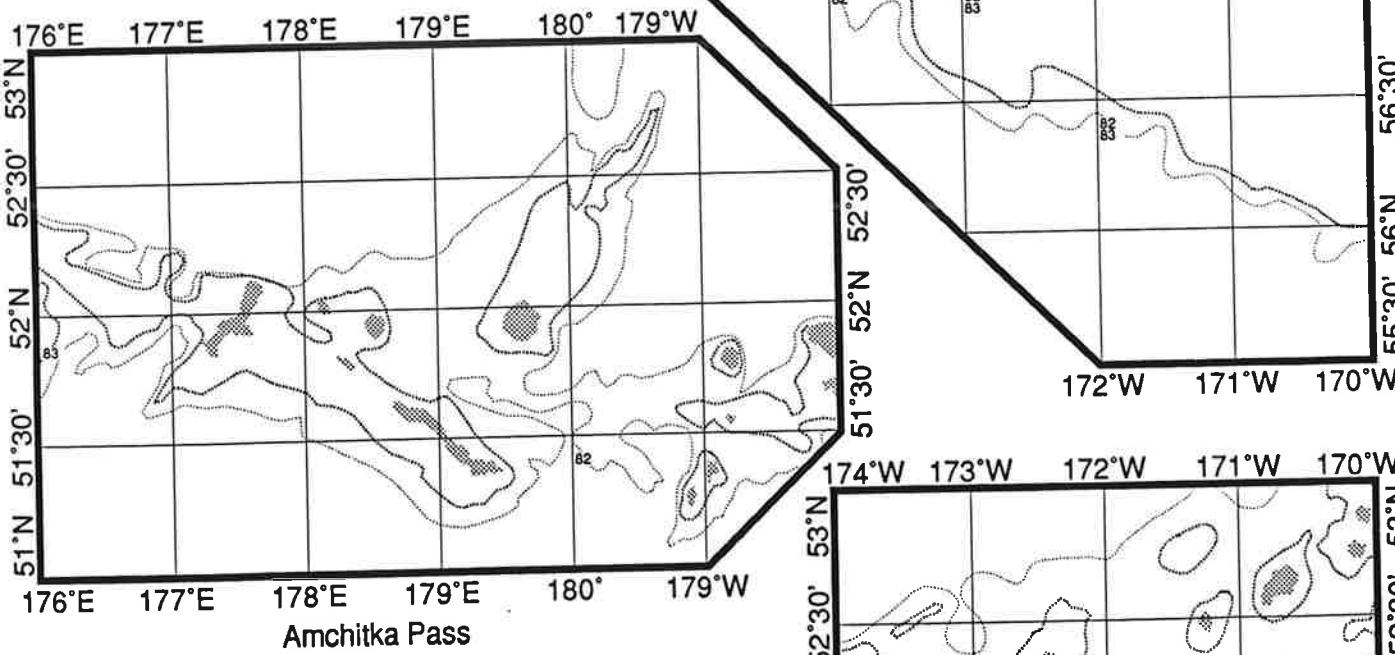
SECTION V

HERRING BYCATCH RATE CHARTS

V-2

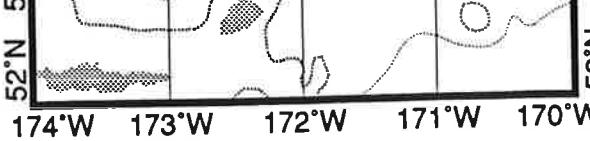


03-16-1991 12:54:46



January MISCELLANEOUS SPECIES Herring Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

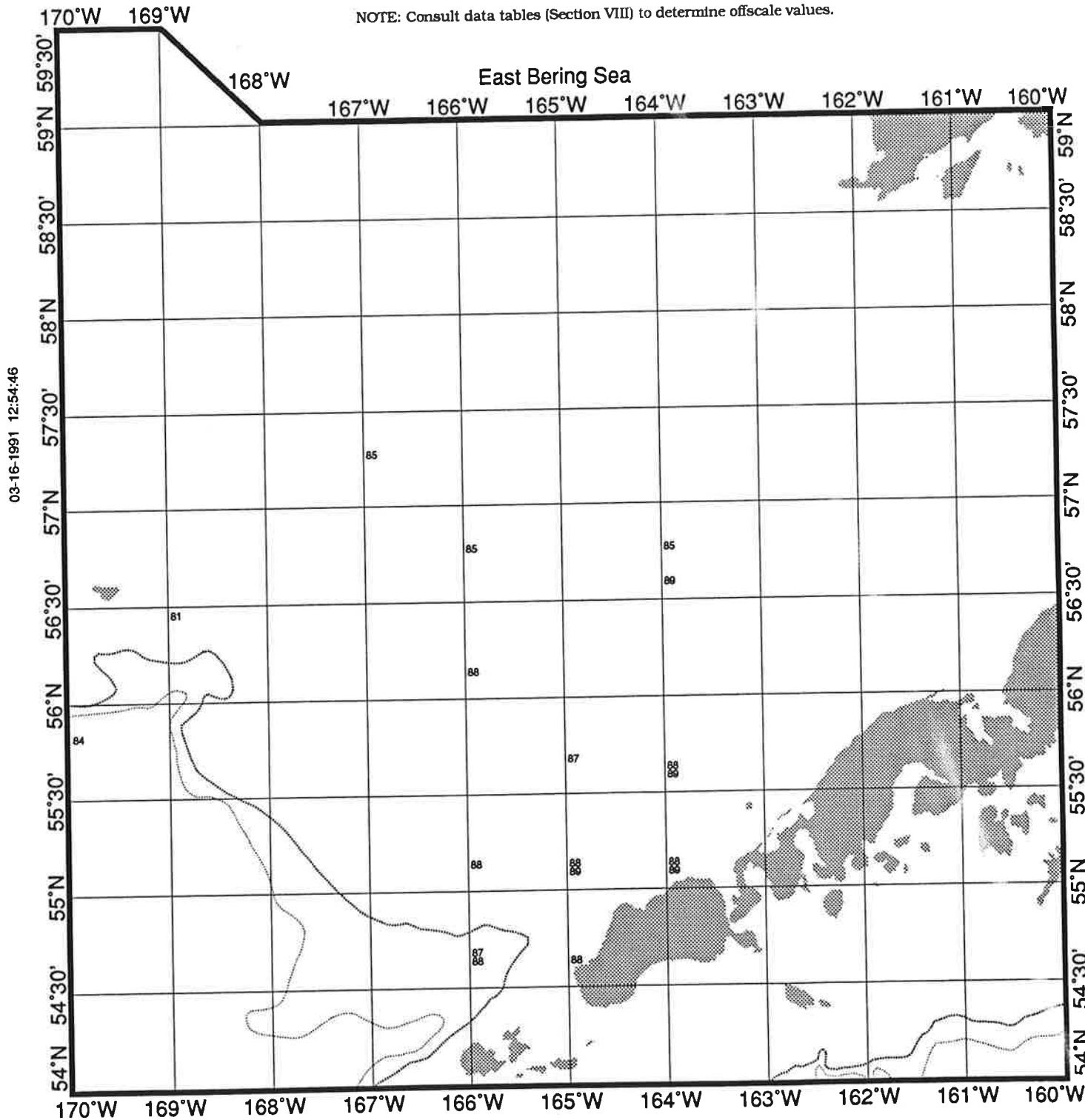
January
MISCELLANEOUS SPECIES
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

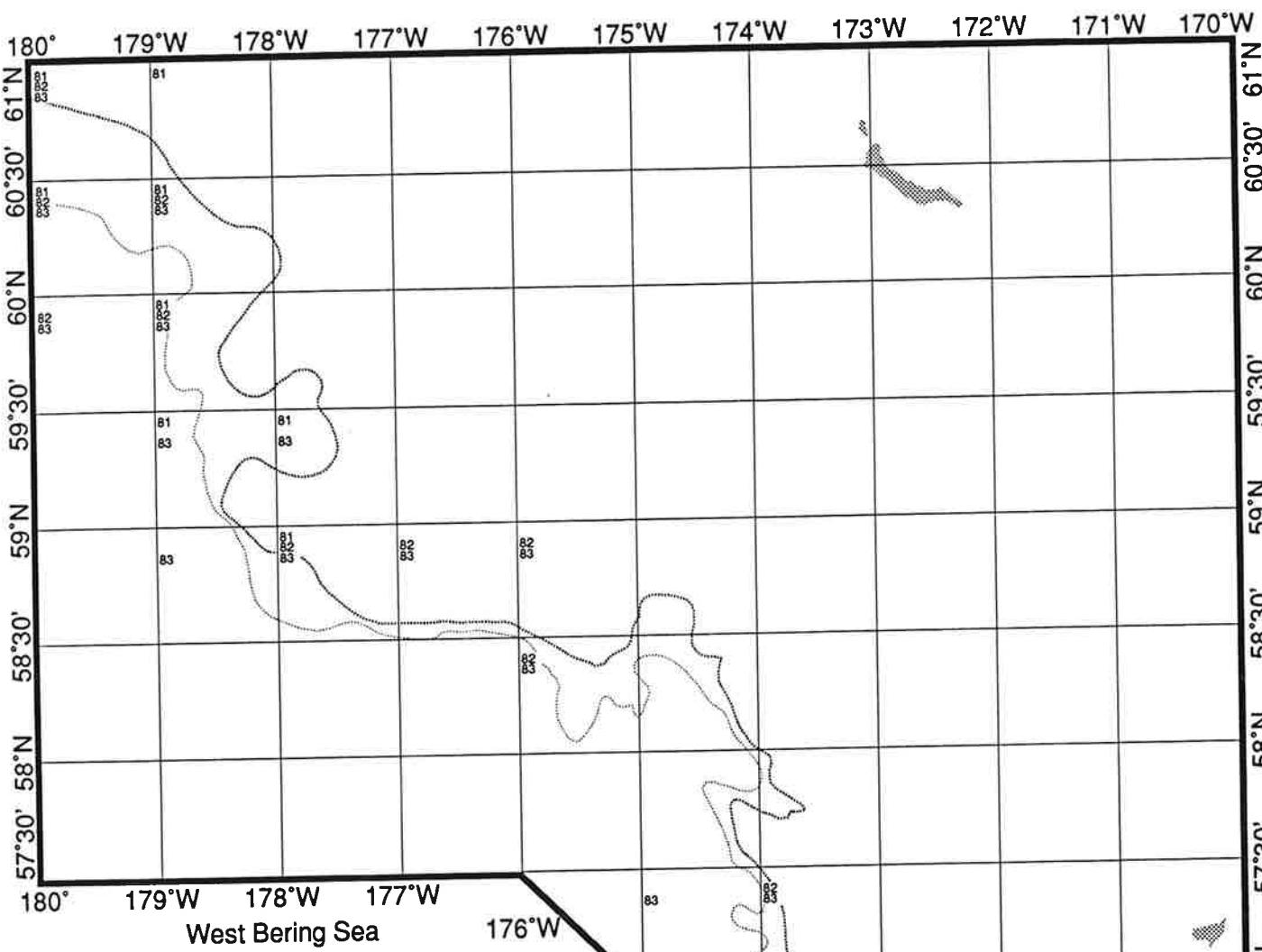
0 1 2 3 4 5 SCALE: Percentage by Weight.

- 81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 1987 Bycatch Rate Zero.

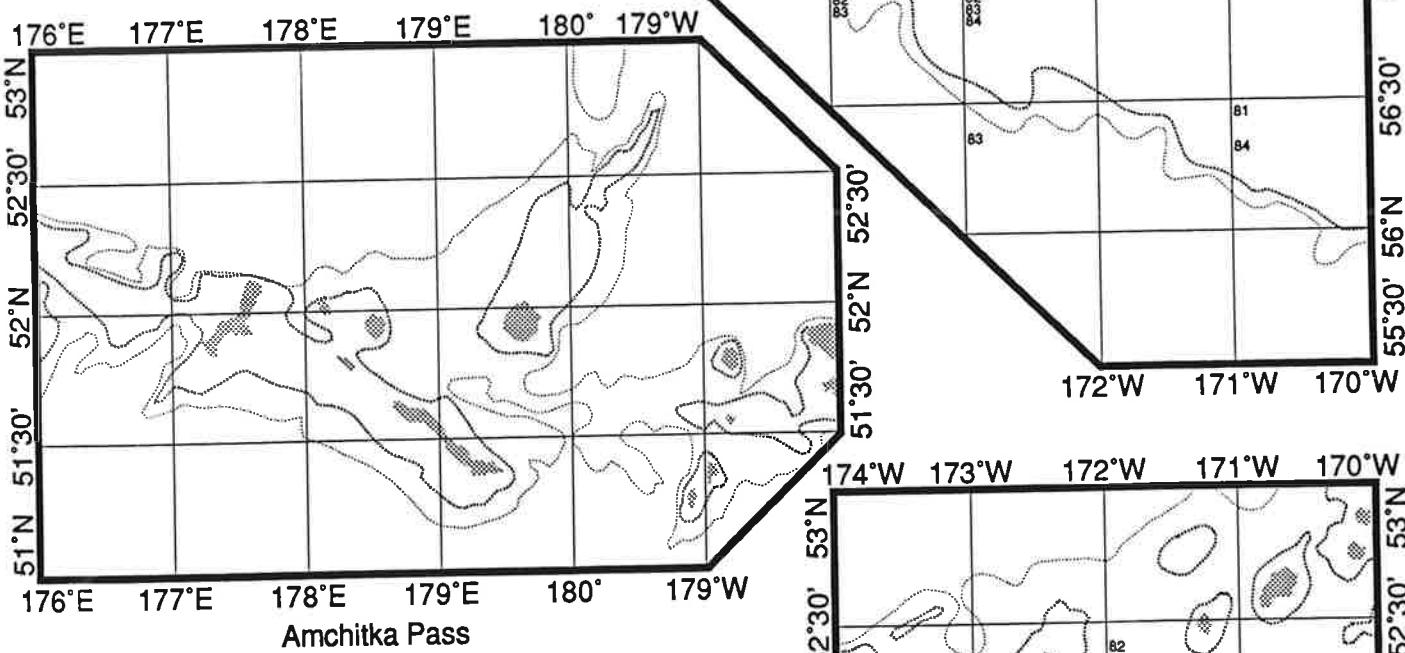
NOTE: Consult data tables (Section VIII) to determine offscale values.



V-4



03-16-1991 12:54:46

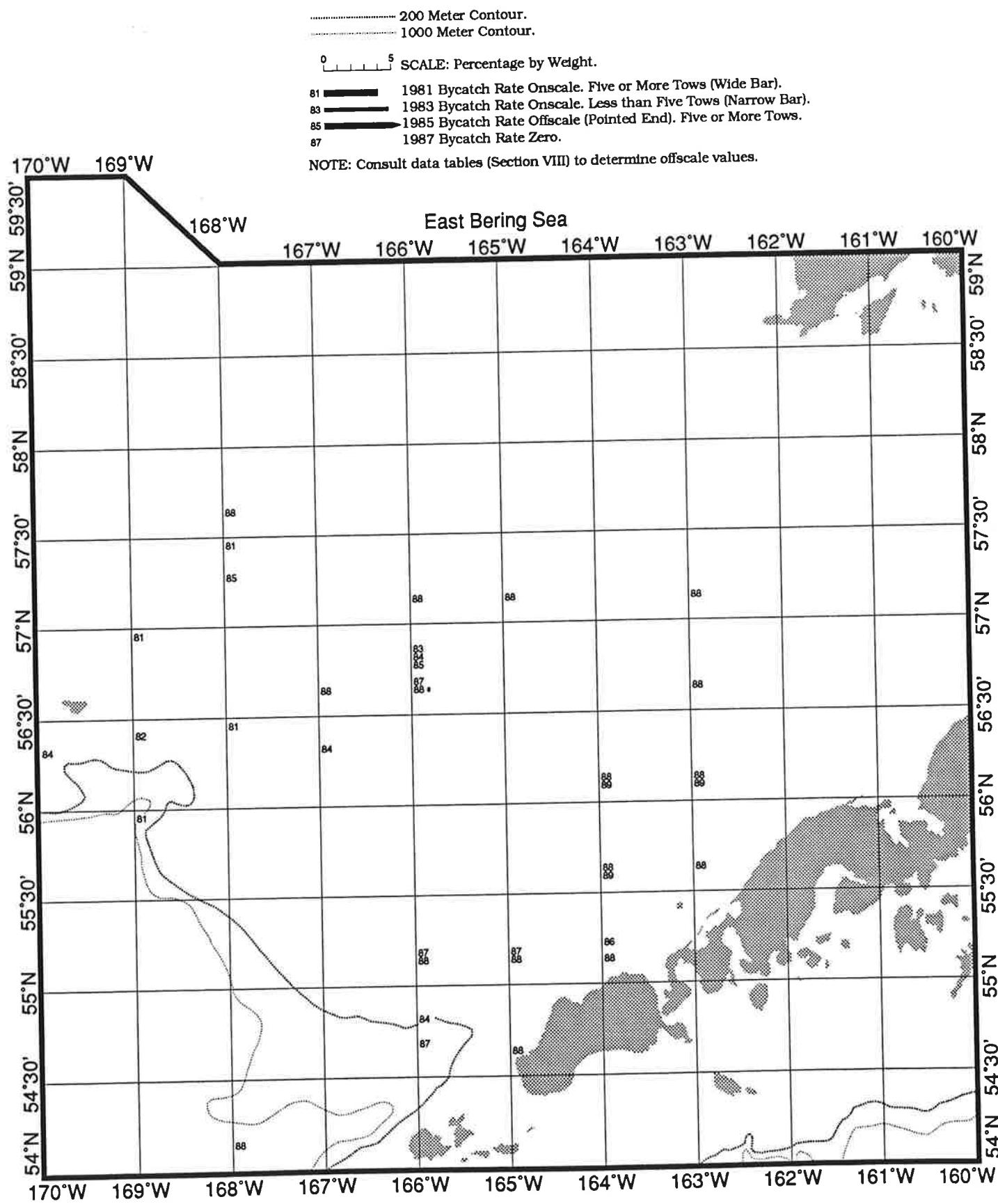


**February
MISCELLANEOUS SPECIES
Herring Bycatch Rate**

Seguam Pass

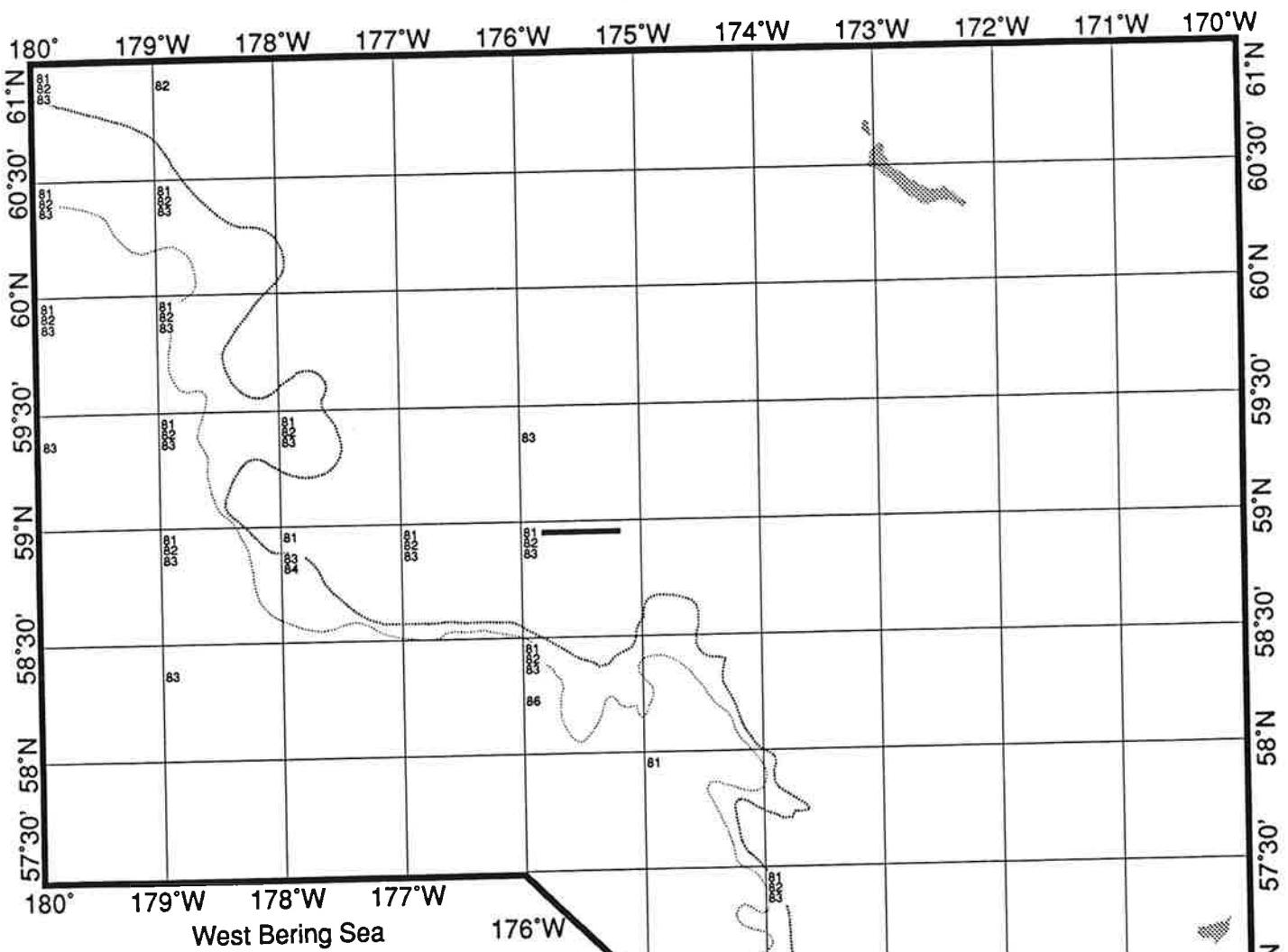
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

February
MISCELLANEOUS SPECIES
Herring Bycatch Rate



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

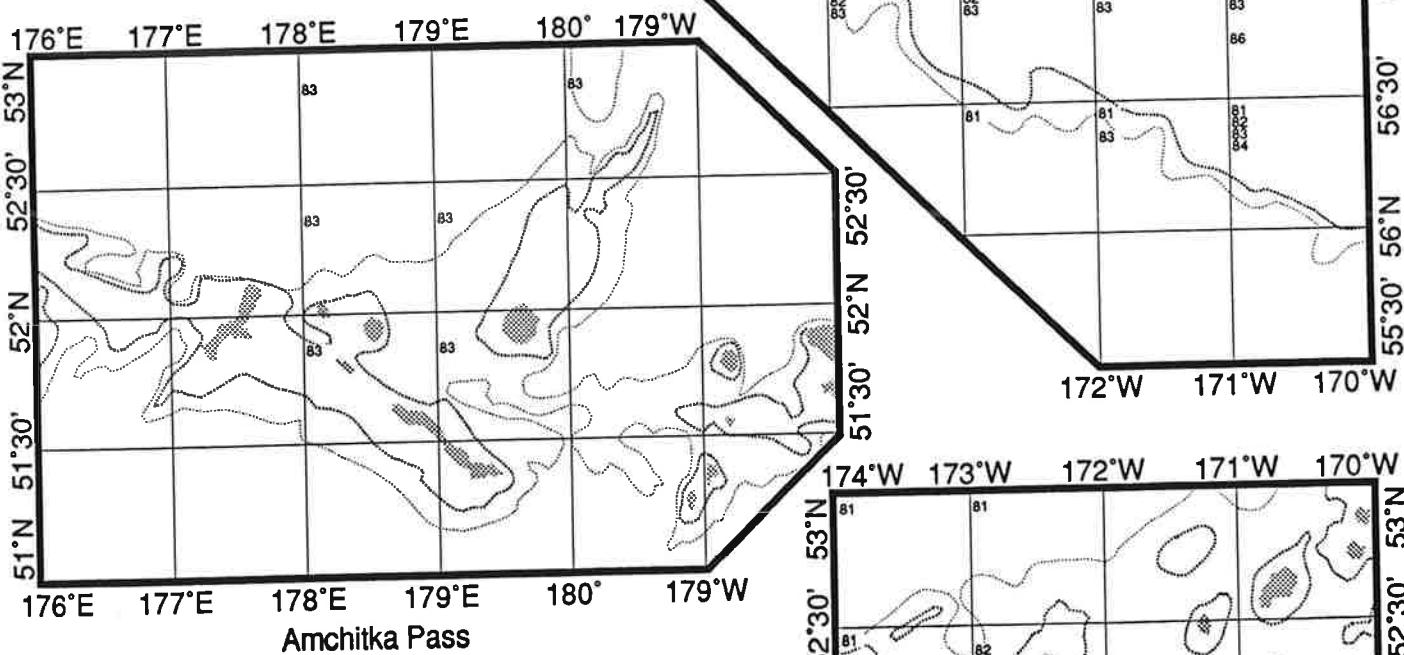
V-6



West Bering Sea

176°W

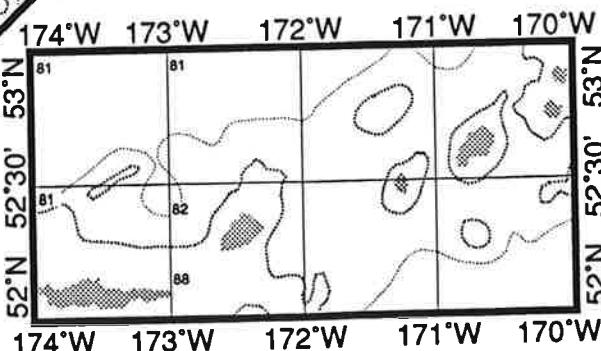
03-16-1991 12:54:46



Amchitka Pass

March
MISCELLANEOUS SPECIES
Herring Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

March

MISCELLANEOUS SPECIES

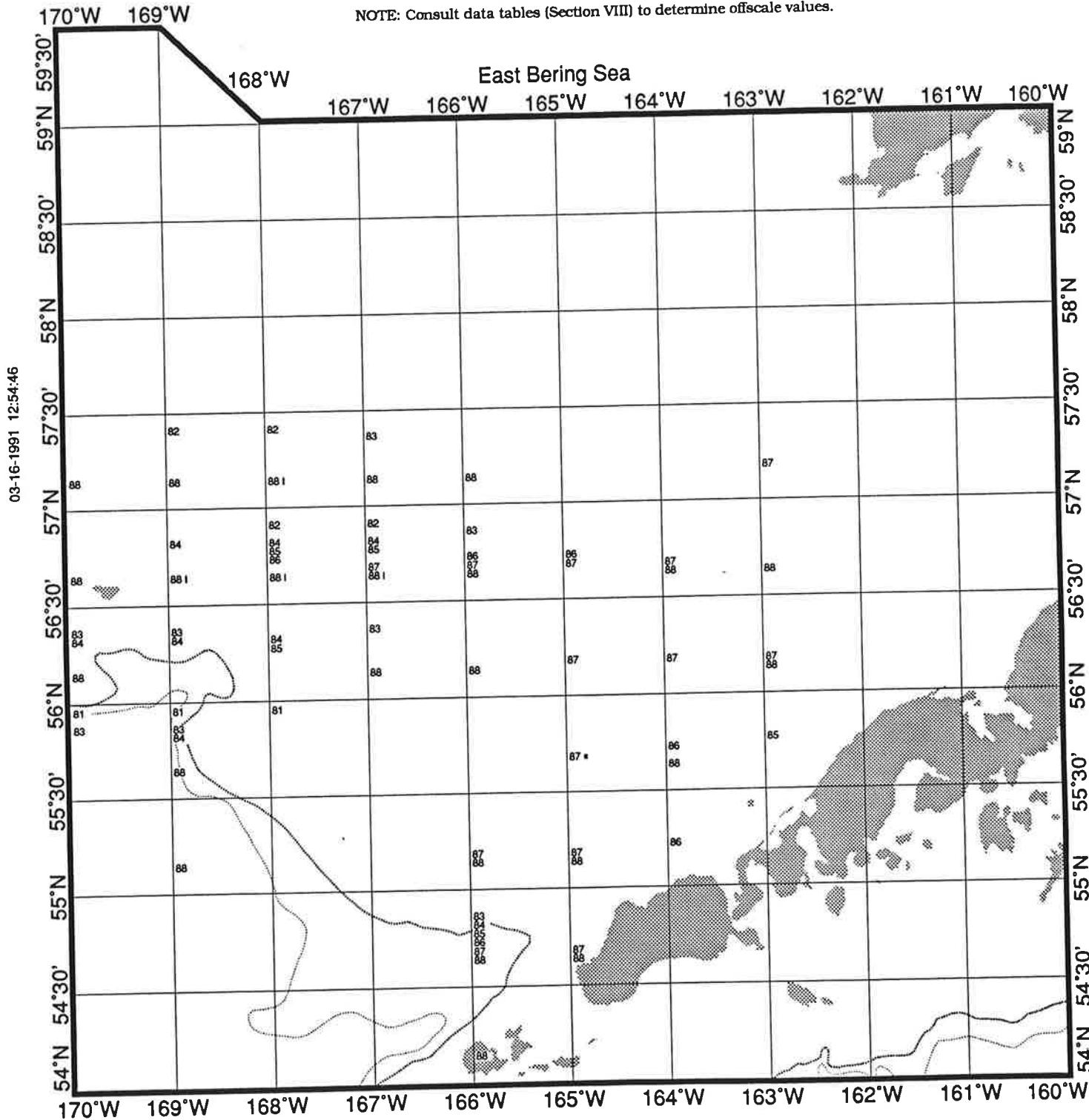
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

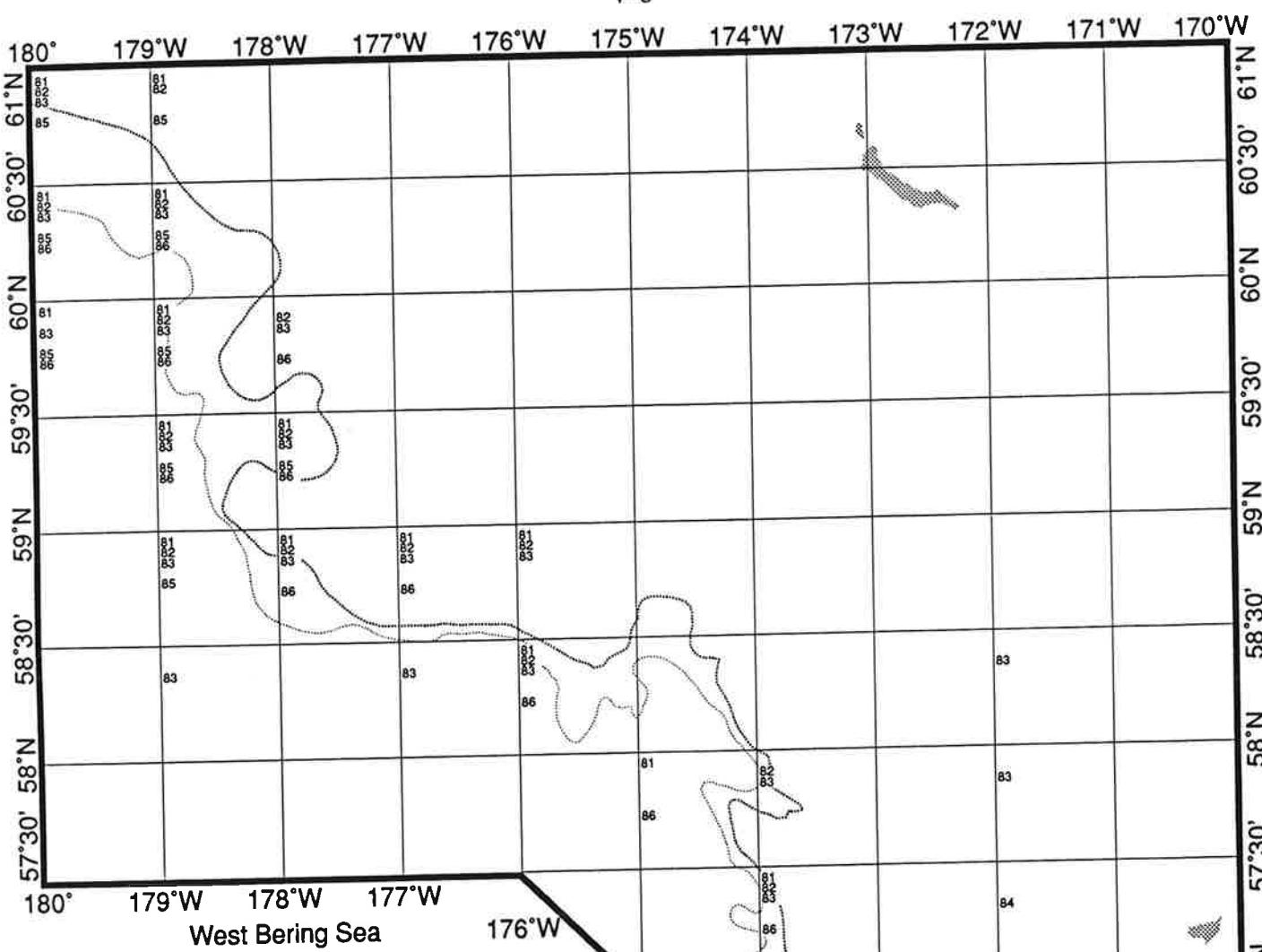
0 5 SCALE: Percentage by Weight.

- 81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 1987 Bycatch Rate Zero.

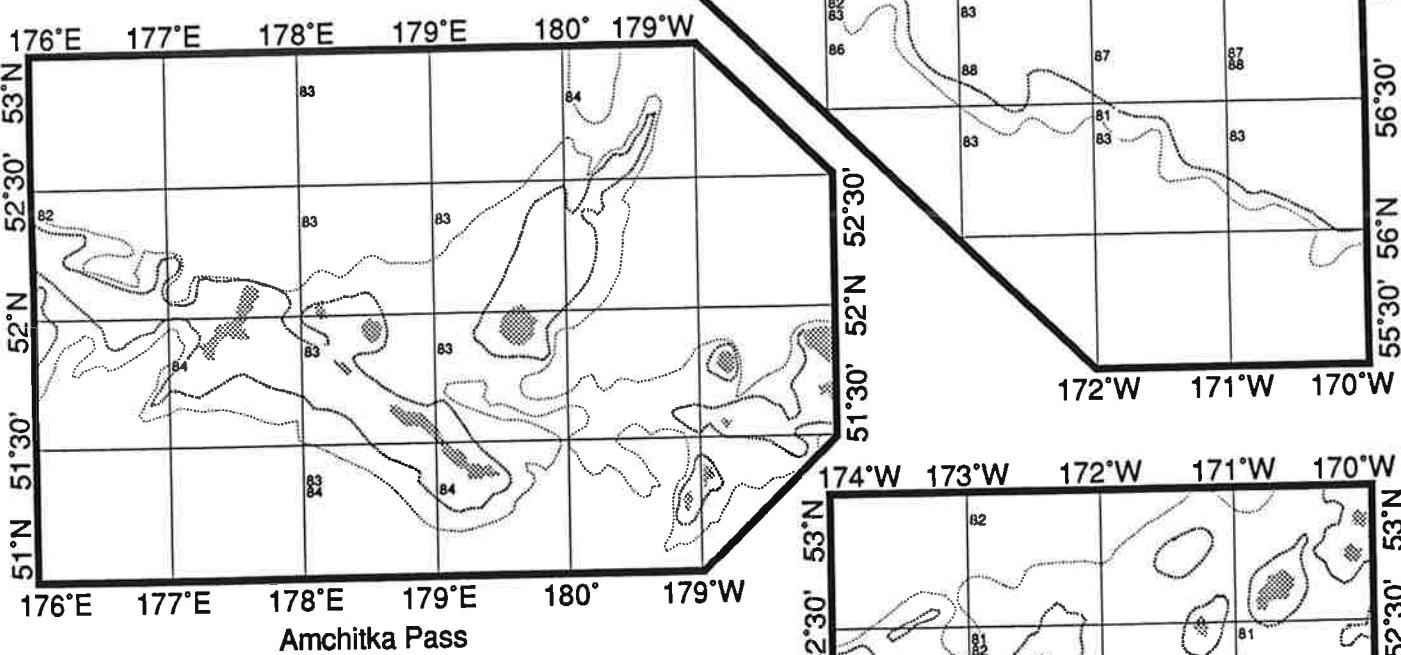
NOTE: Consult data tables (Section VIII) to determine offscale values.



V-8



03-16-1991 12:54:46



**April MISCELLANEOUS SPECIES
Herring Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

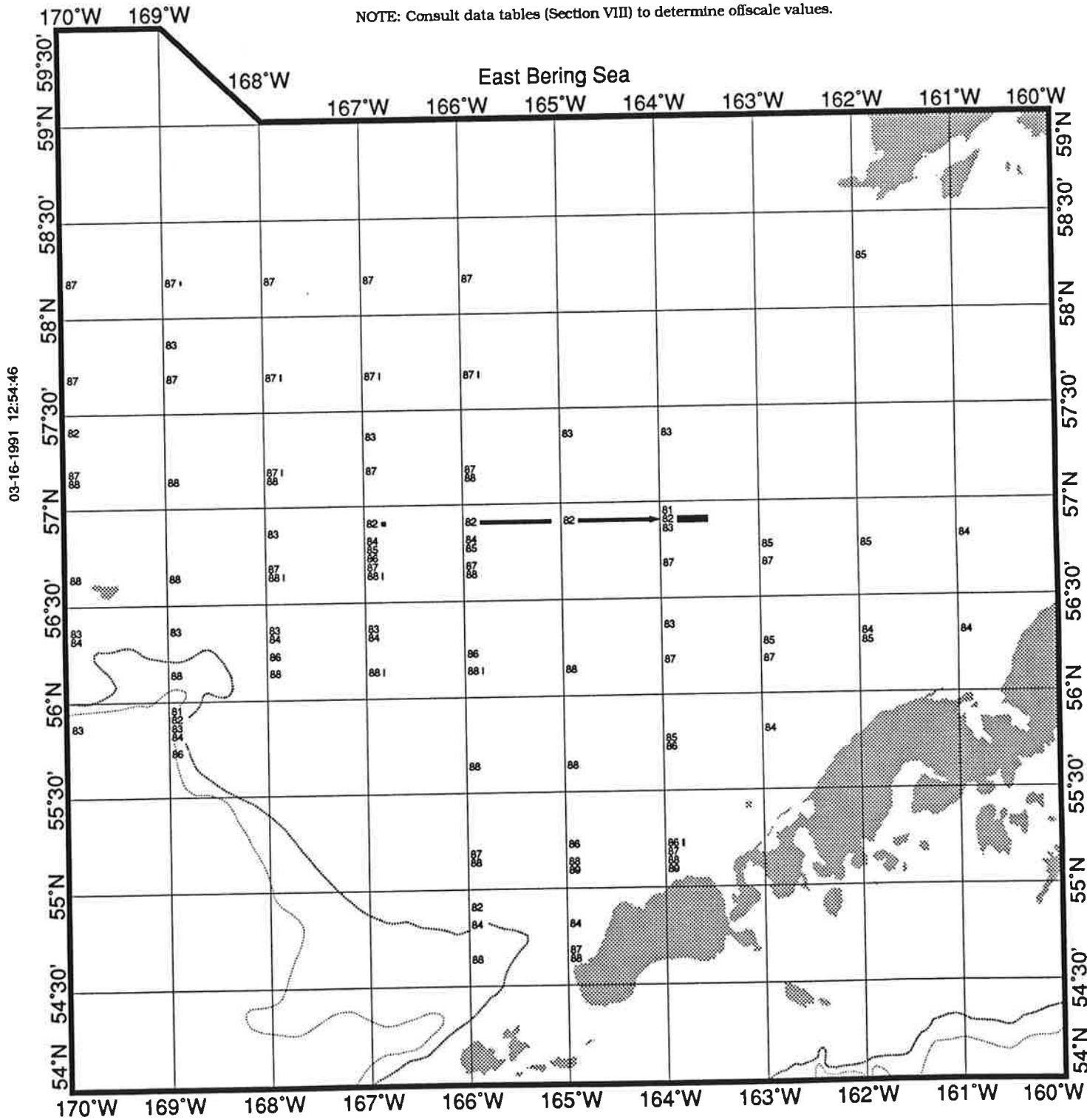
April
MISCELLANEOUS SPECIES
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

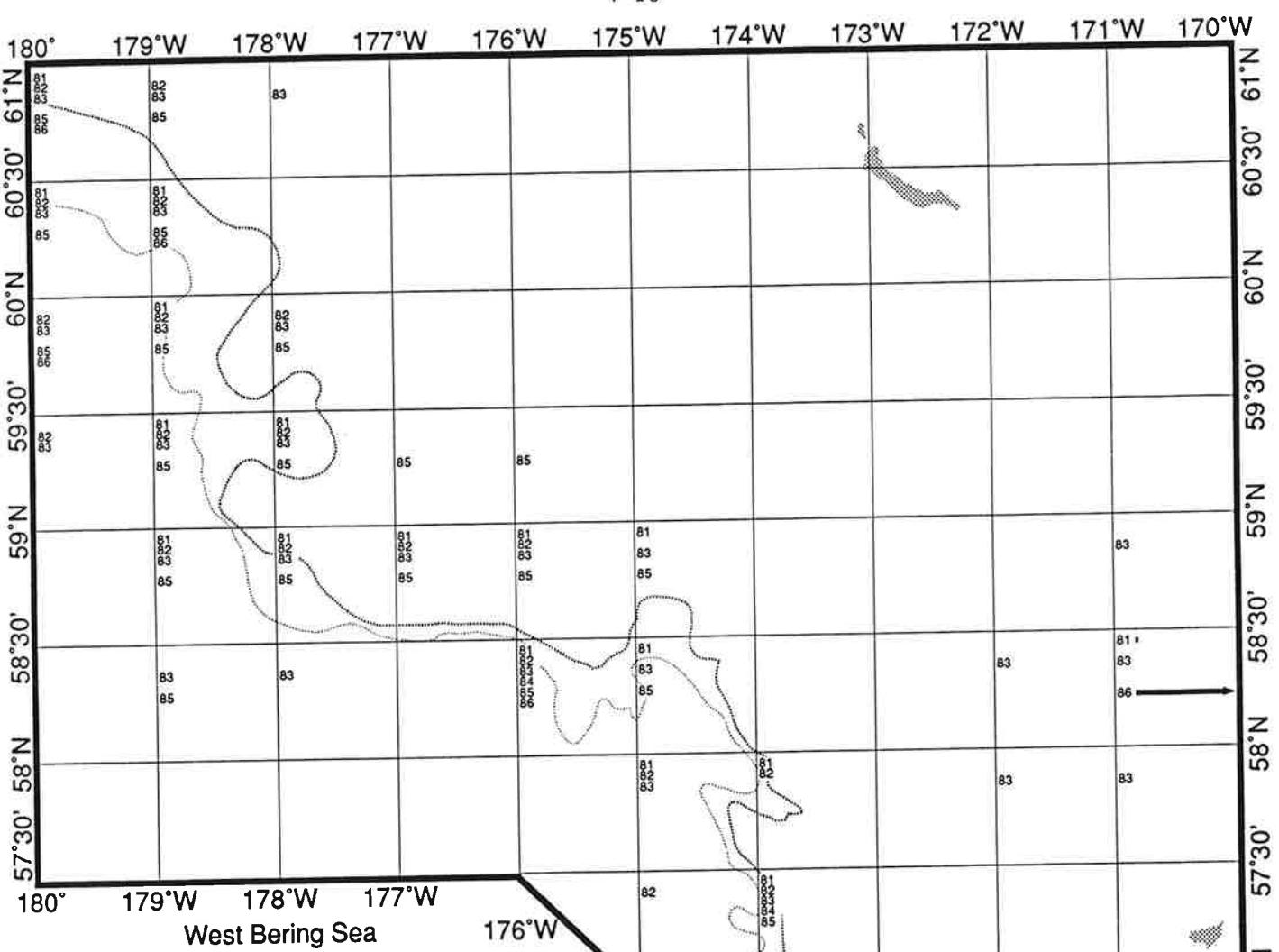
0 5 SCALE: Percentage by Weight.

- 81 ————— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ————— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

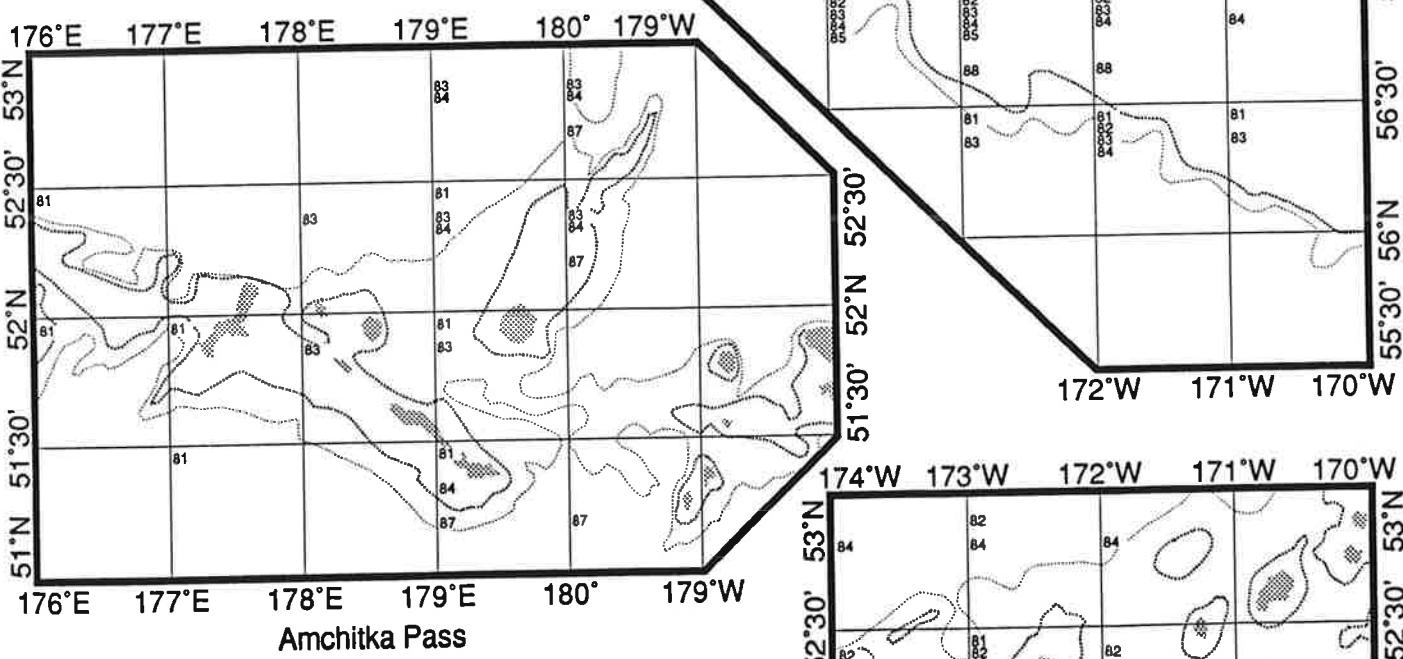


V-10



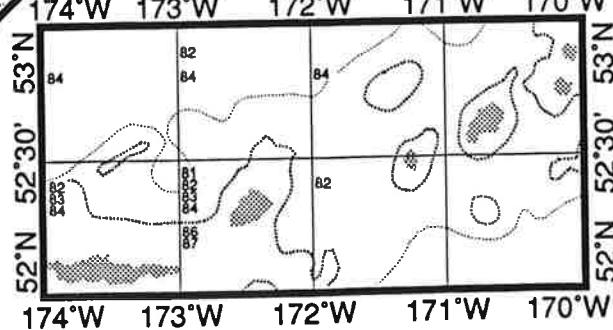
West Bering Sea

09-16-1991 12:54:46



Amchitka Pass

Seguam Pass



May
MISCELLANEOUS SPECIES
Herring Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

May

MISCELLANEOUS SPECIES

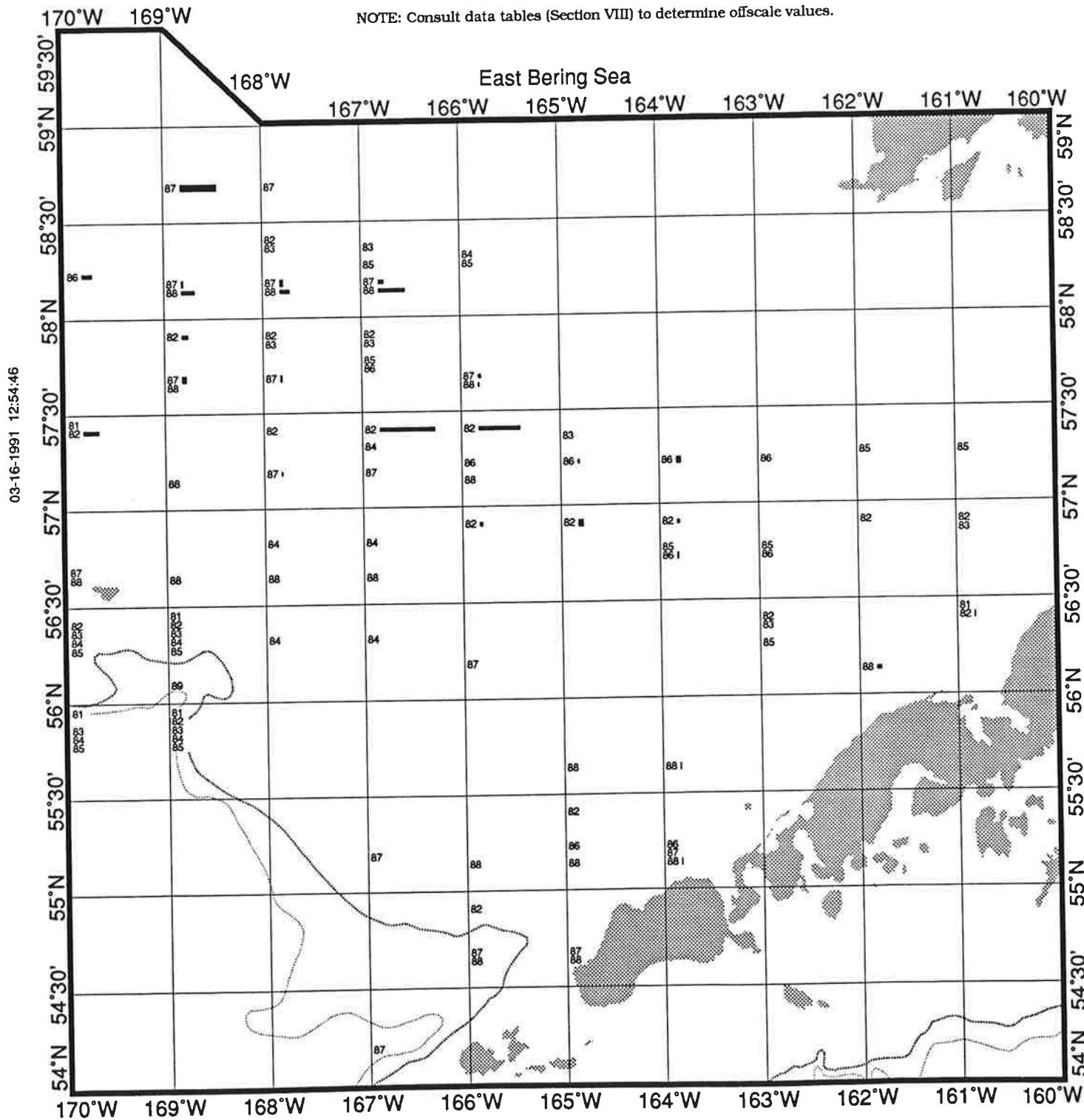
Herring Bycatch Rate

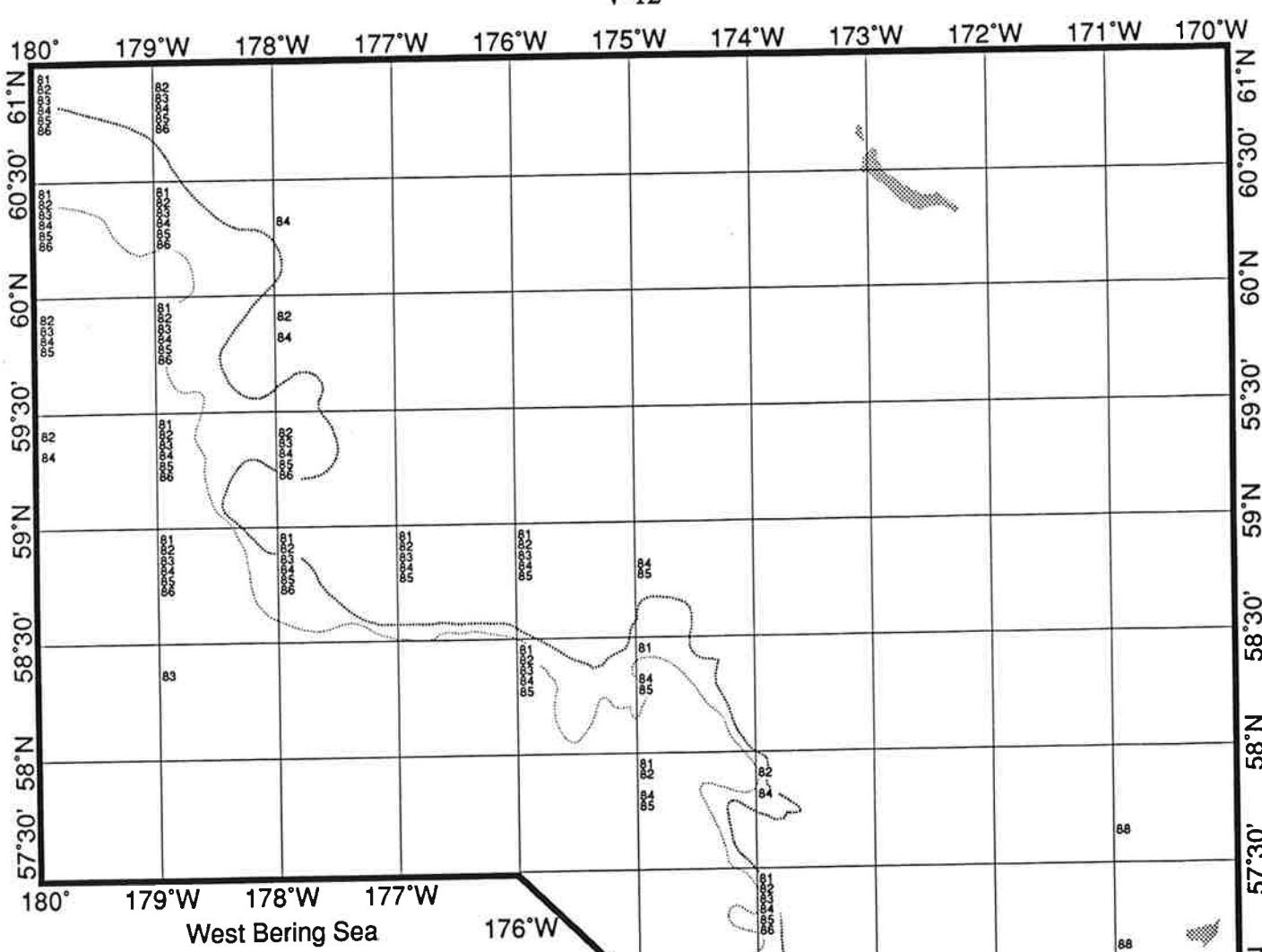
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 SCALE: Percentage by Weight.

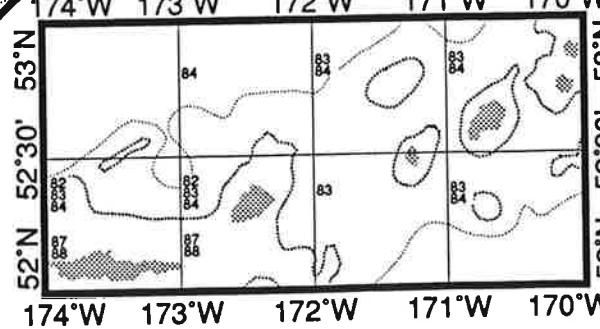
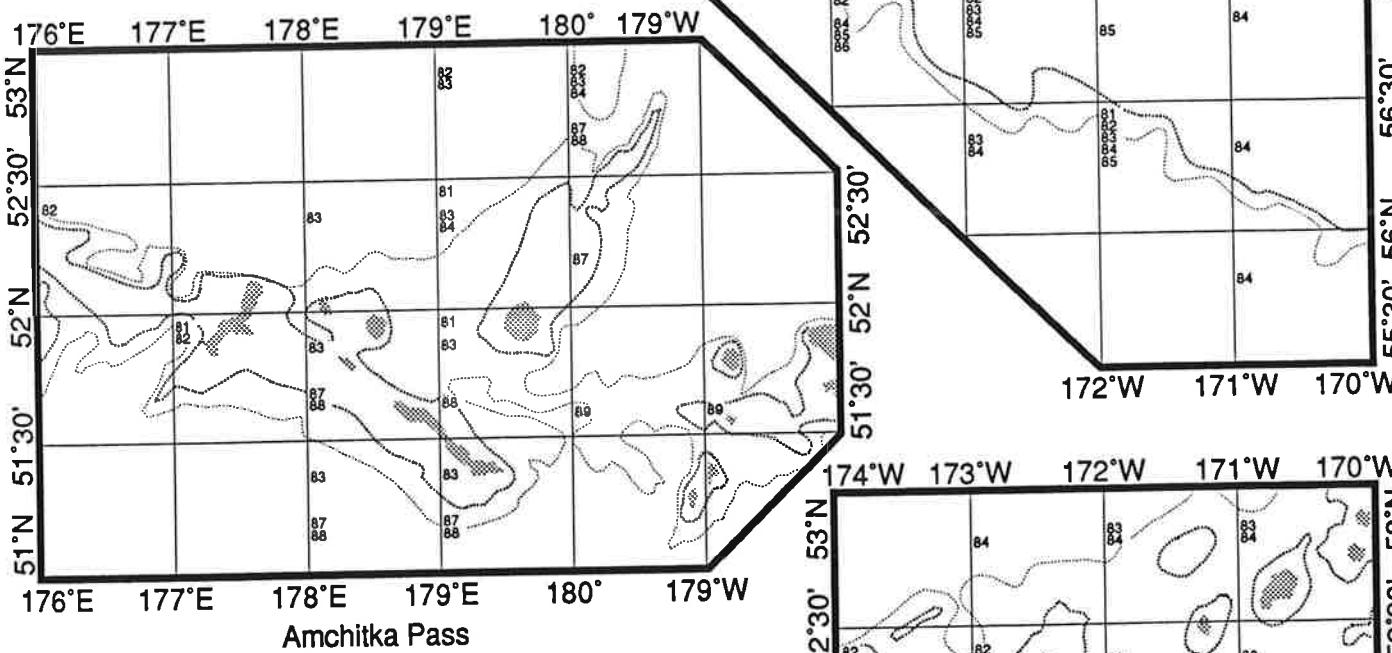
- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.





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June
MISCELLANEOUS SPECIES
Herring Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

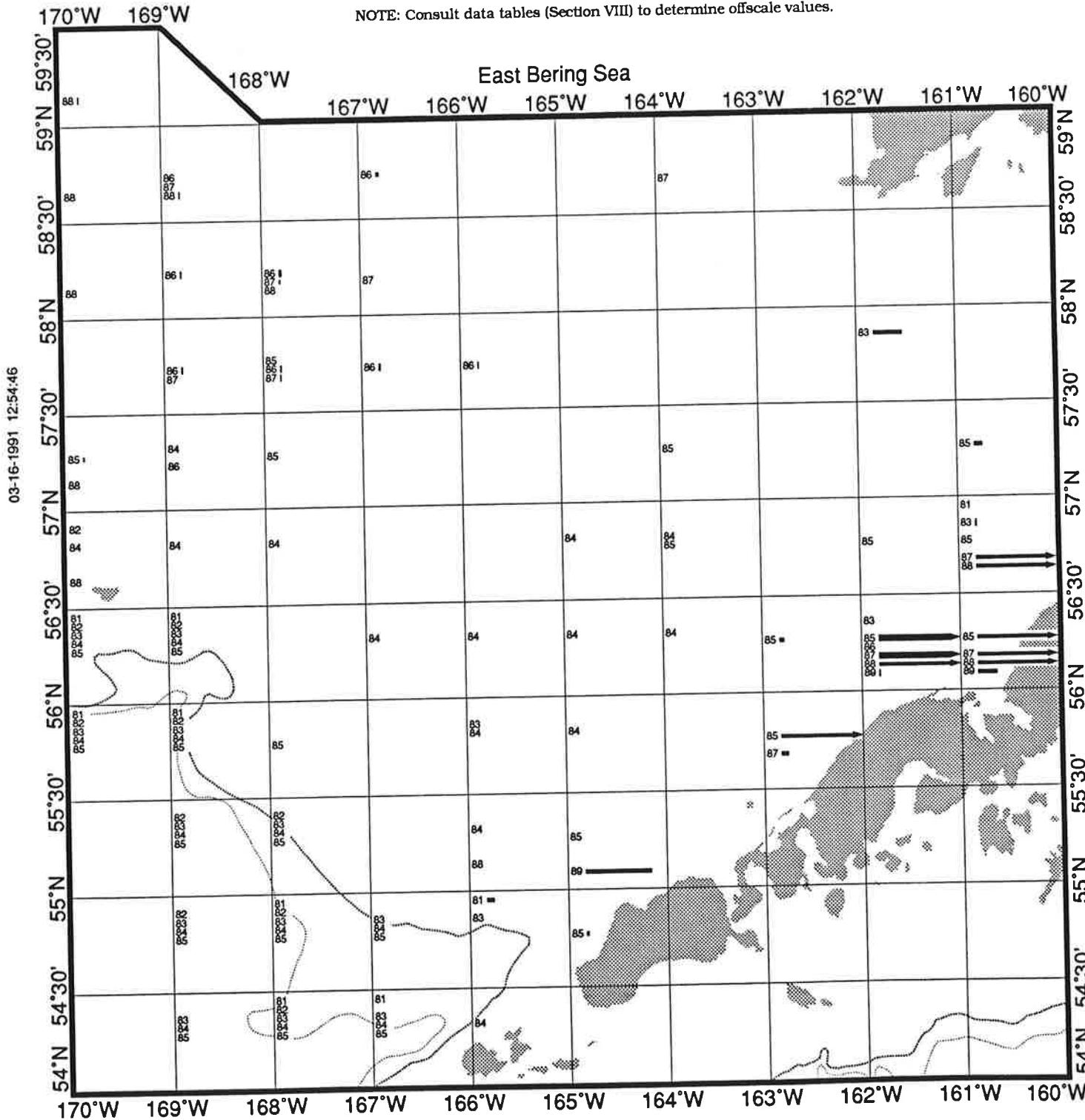
June
**MISCELLANEOUS SPECIES
 Herring Bycatch Rate**

..... 200 Meter Contour.
 1000 Meter Contour.

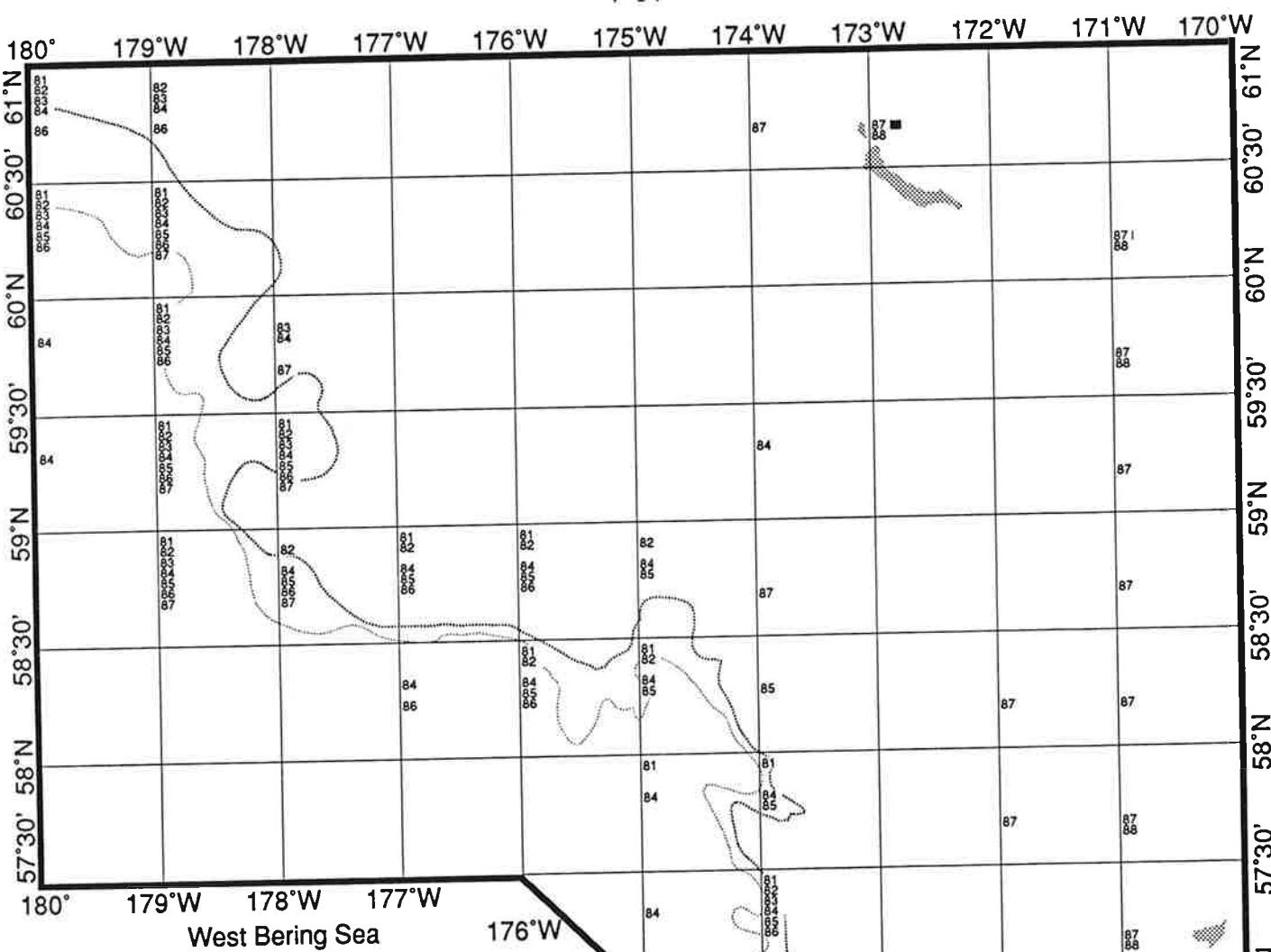
0 5 SCALE: Percentage by Weight.

- 81 ————— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ————— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

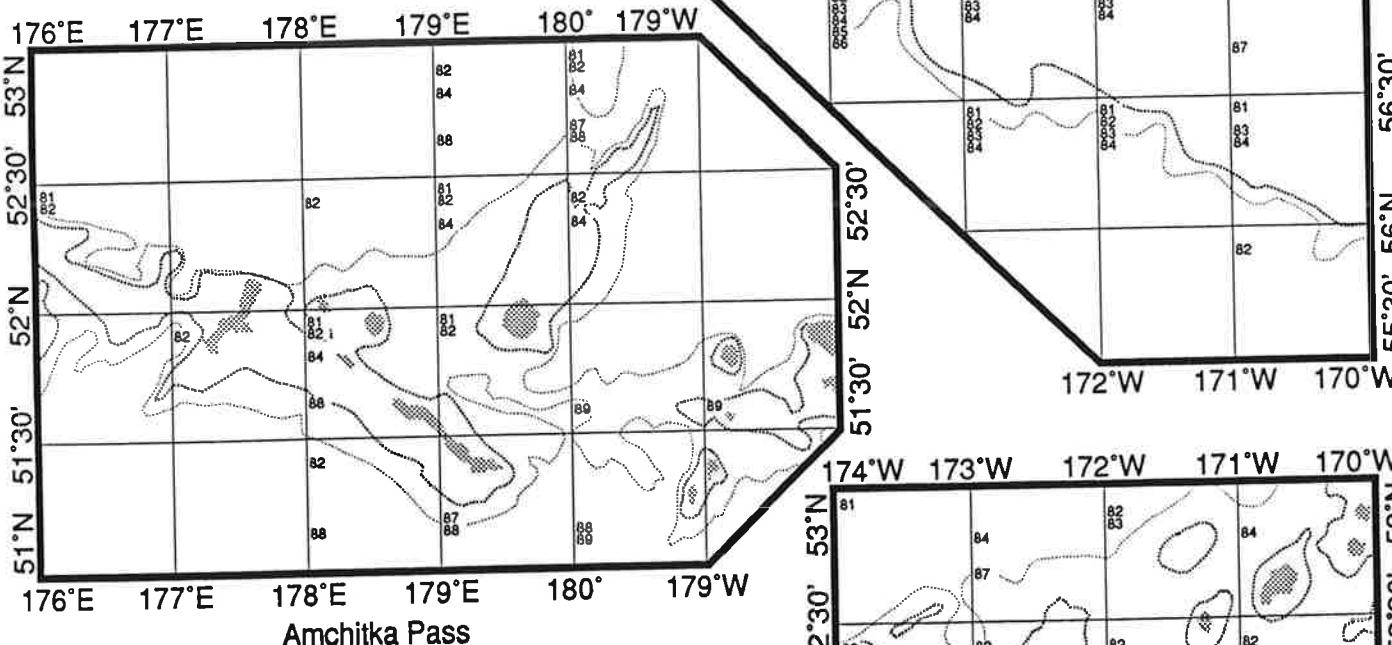
NOTE: Consult data tables (Section VIII) to determine offscale values.



V-14



West Bering Sea



Amchitka Pass

Seguam Pass

July
MISCELLANEOUS SPECIES
Herring Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 12:54:46

July

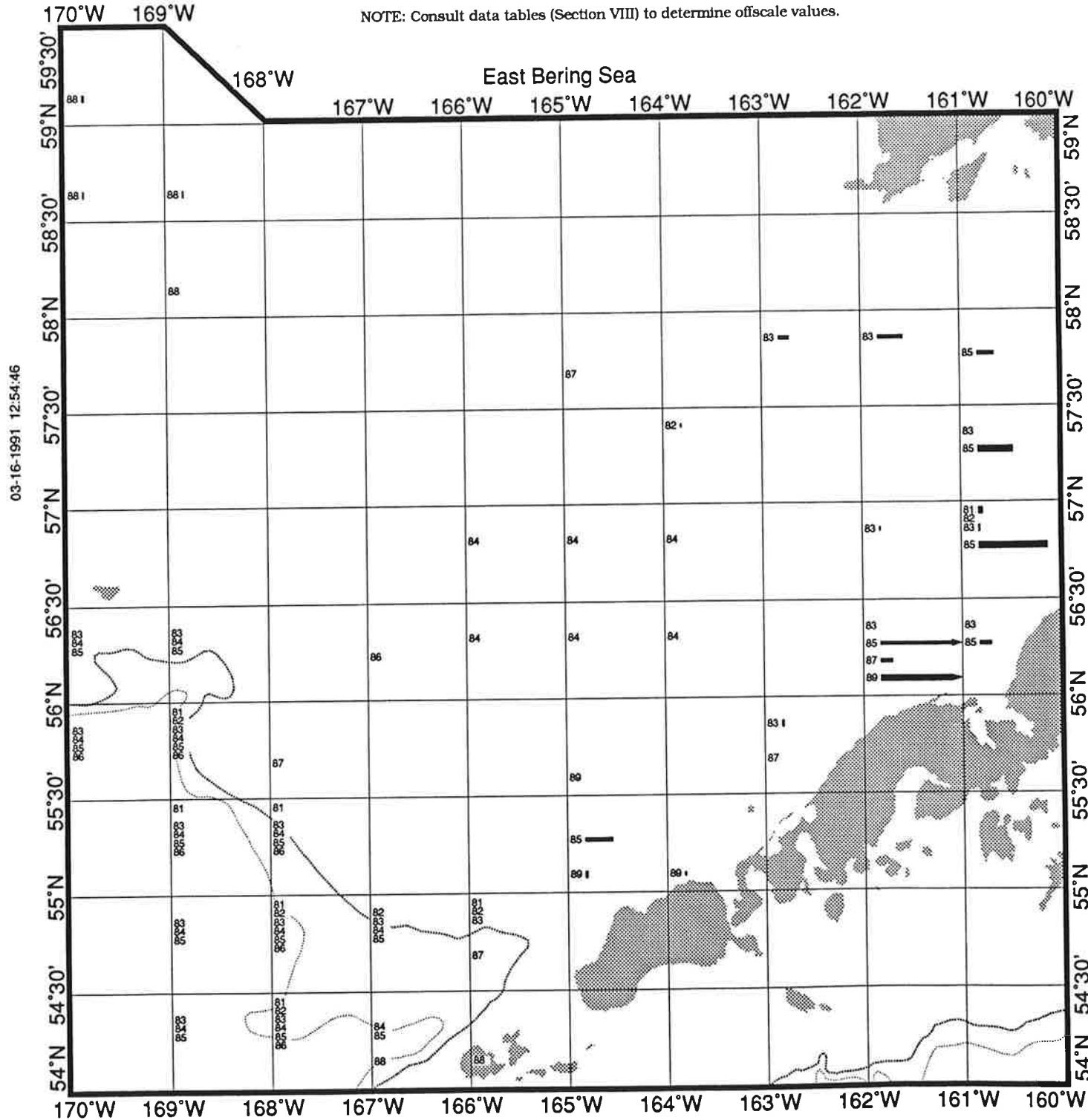
MISCELLANEOUS SPECIES Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

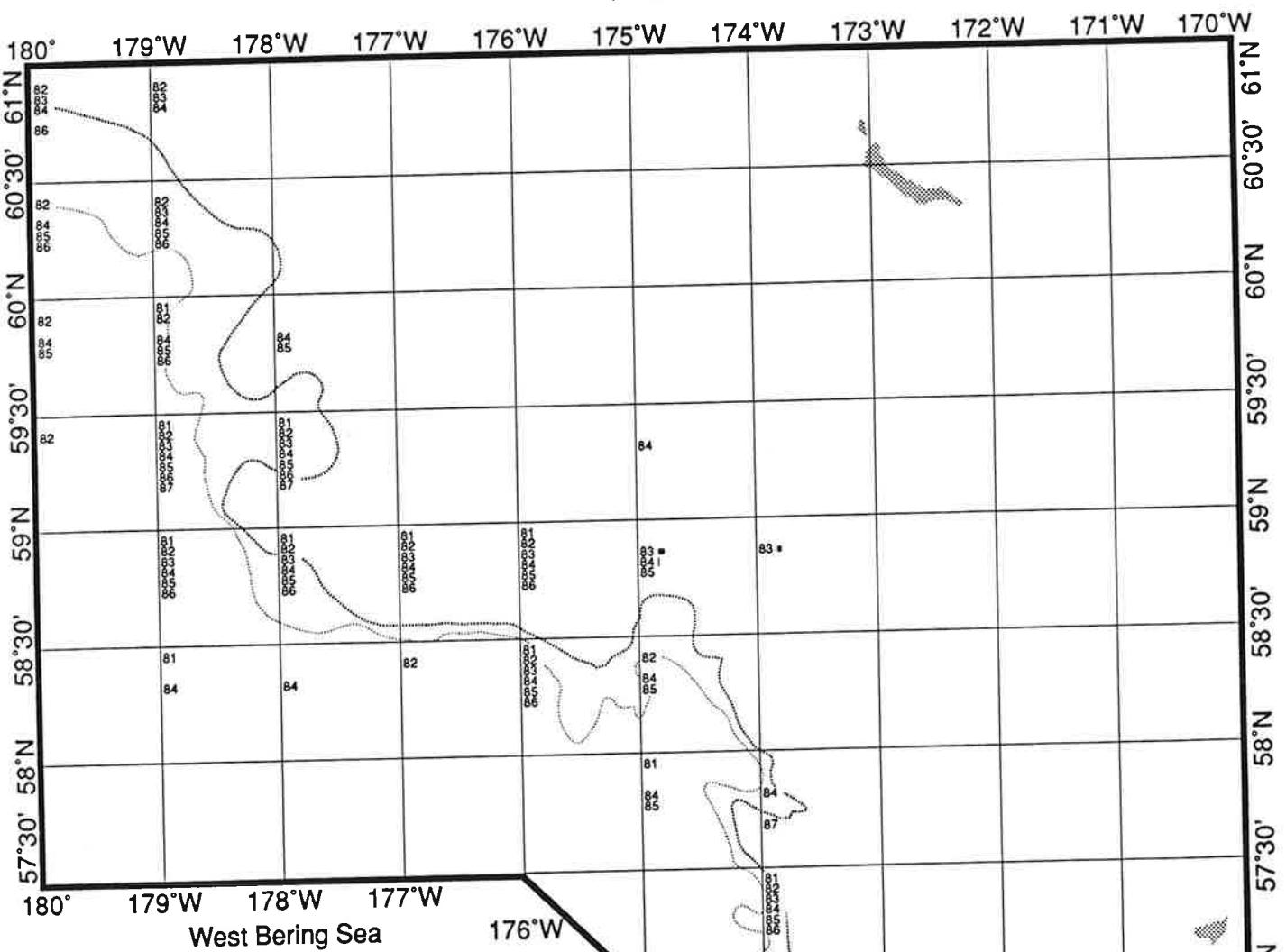
0 5 SCALE: Percentage by Weight.

- 81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 — 1987 Bycatch Rate Zero.

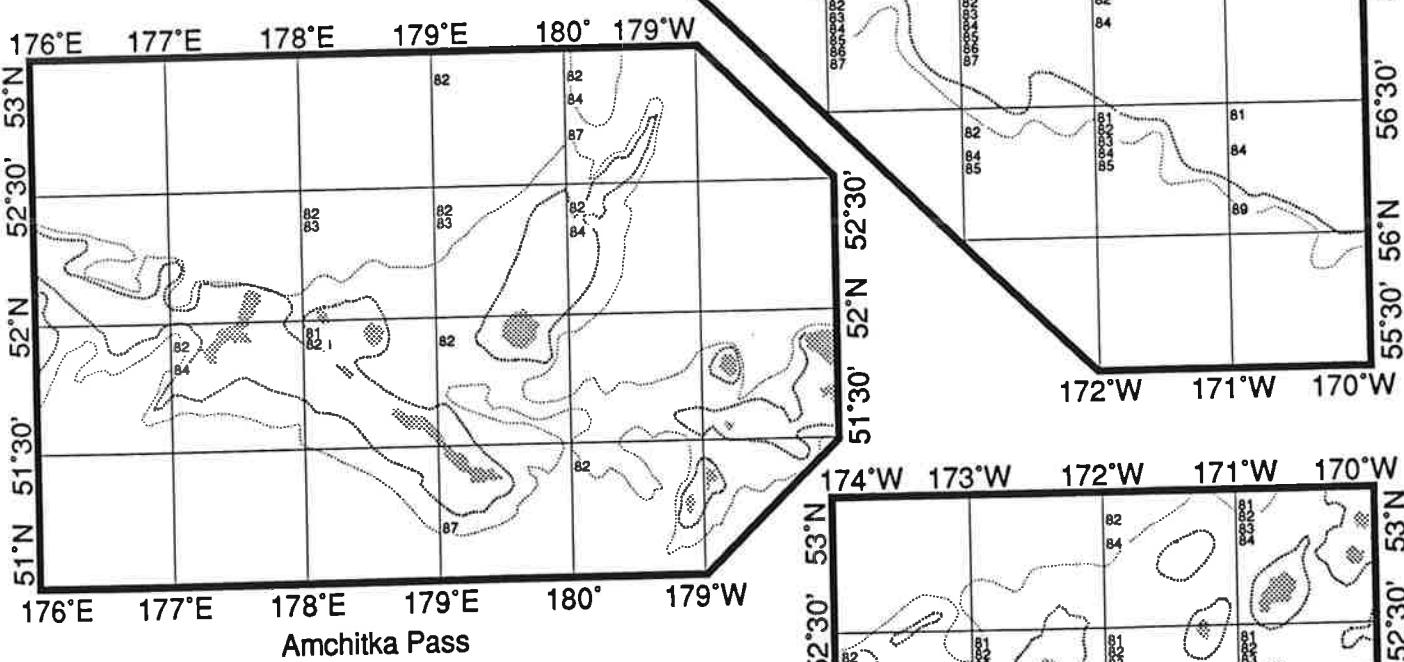
NOTE: Consult data tables (Section VIII) to determine offscale values.



V-16



03-16-1991 12:54:46



**August
MISCELLANEOUS SPECIES
Herring Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

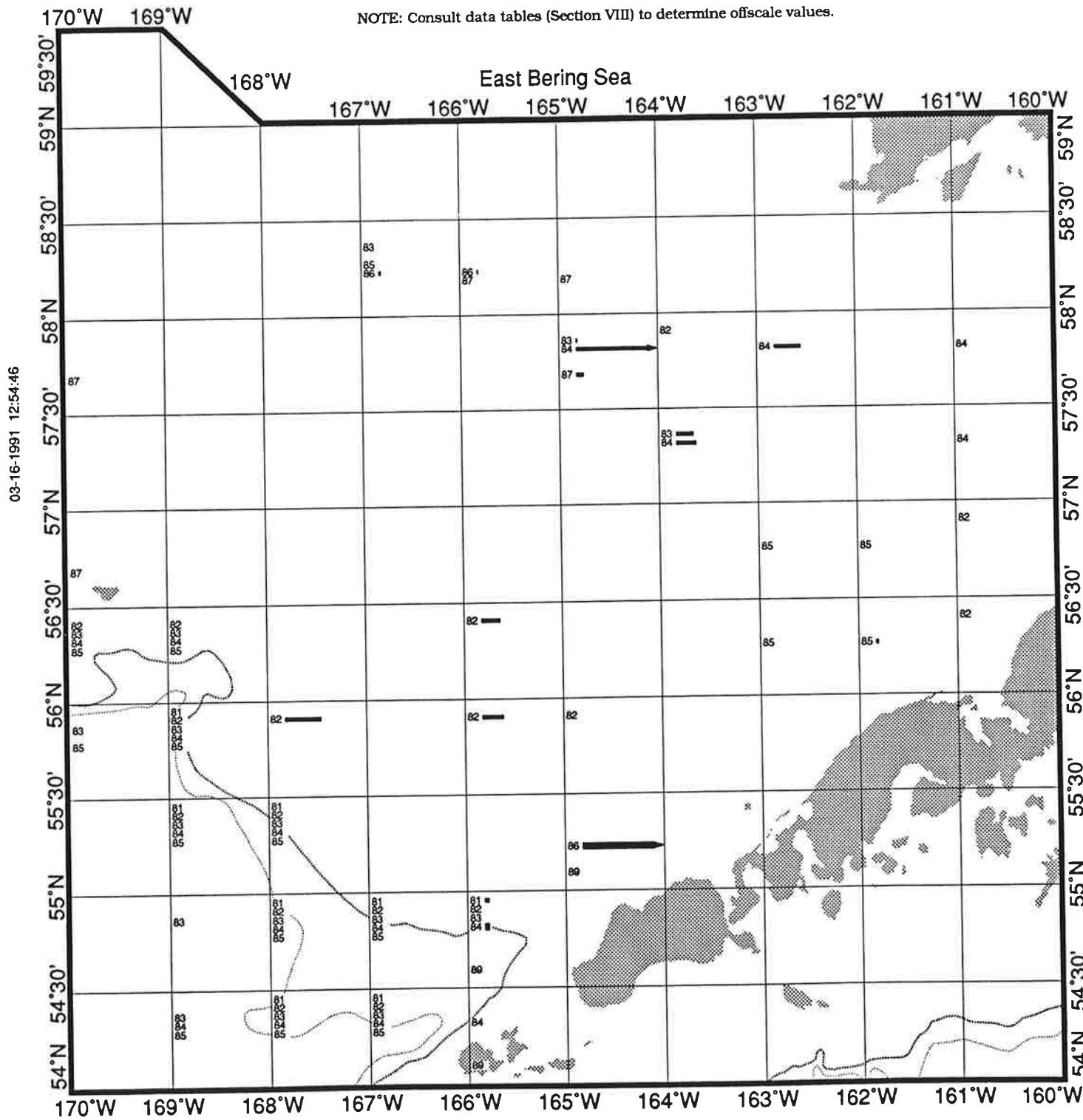
August
MISCELLANEOUS SPECIES
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

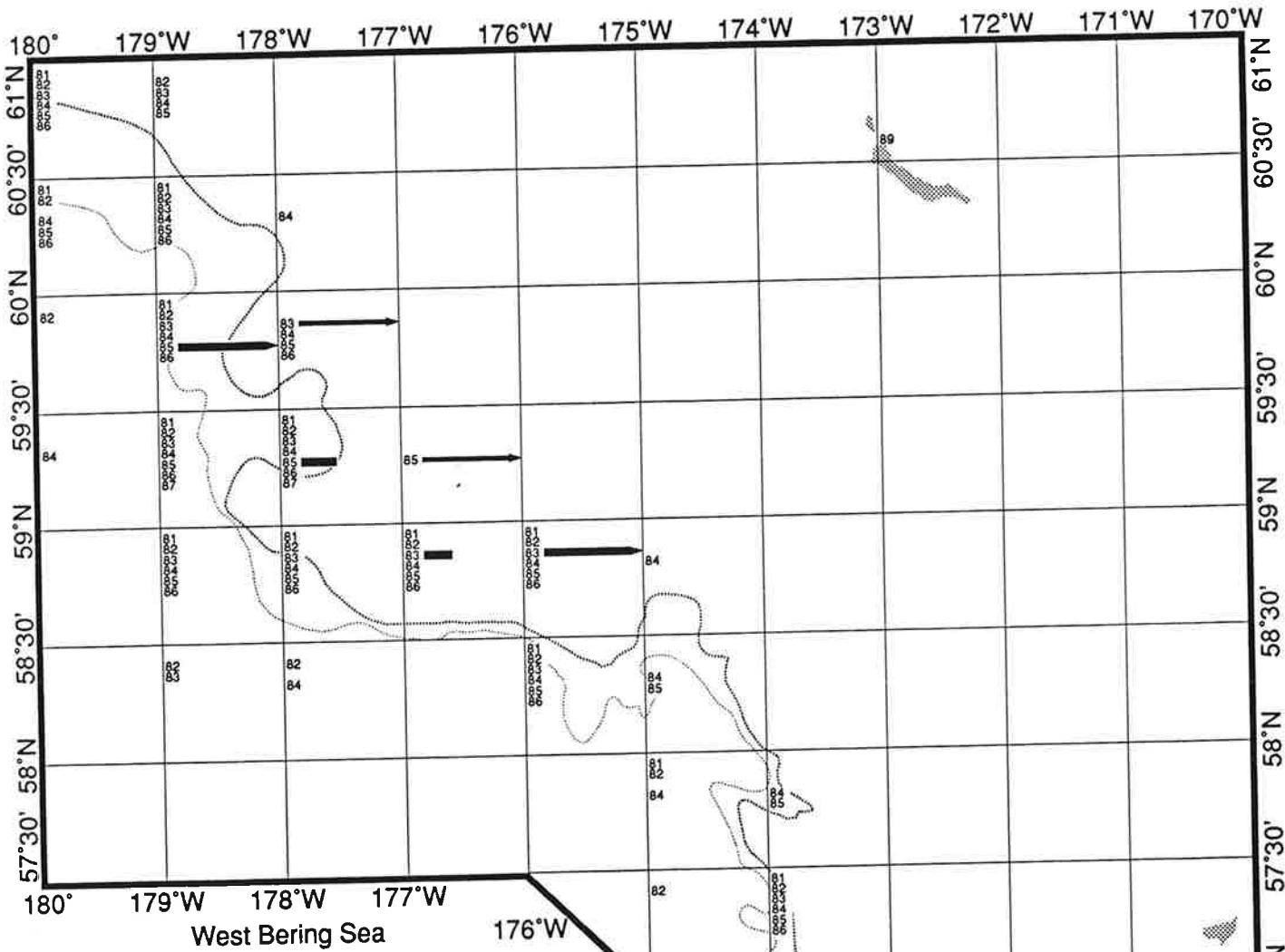
0 5 SCALE: Percentage by Weight.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

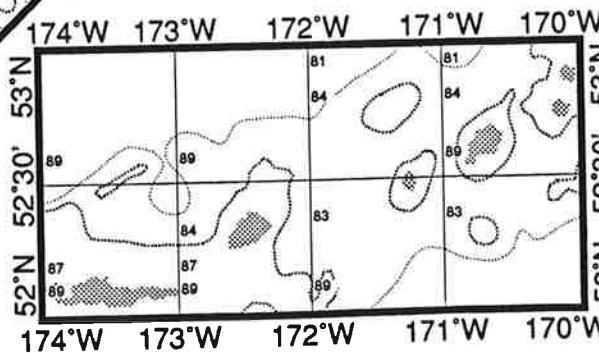
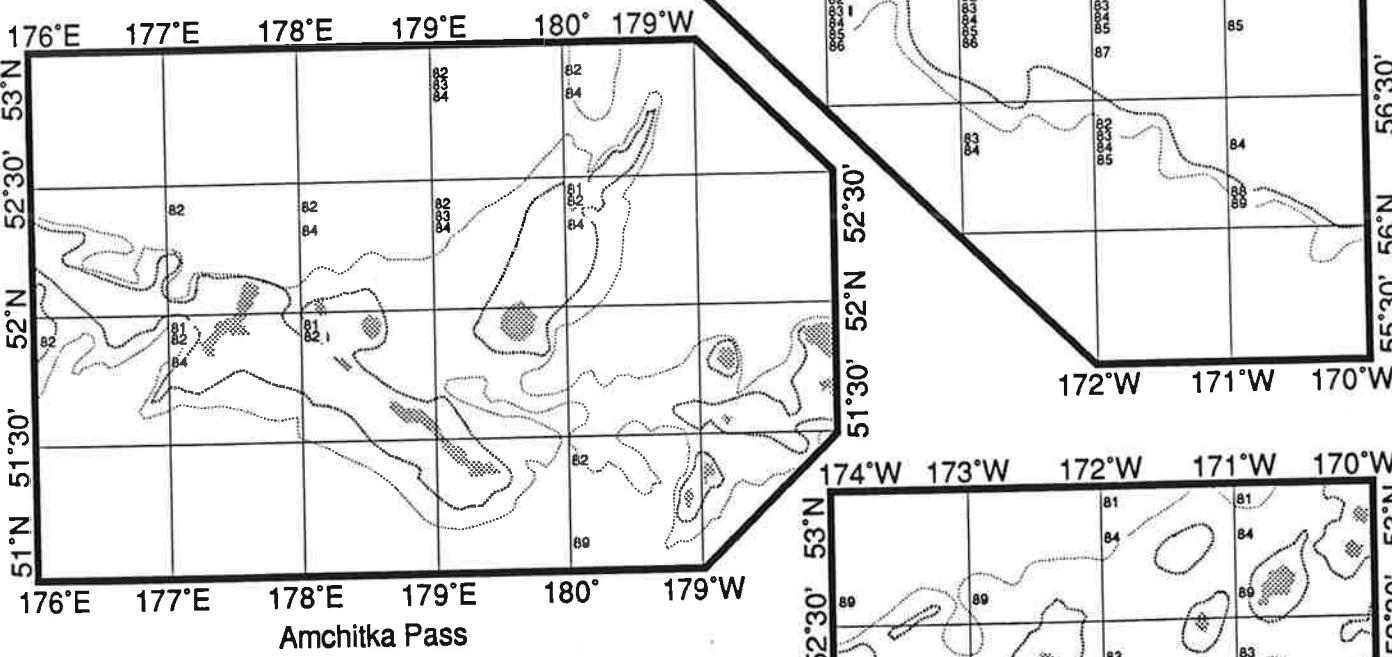
NOTE: Consult data tables (Section VIII) to determine offscale values.



V-18



03-16-1991 12:54:46

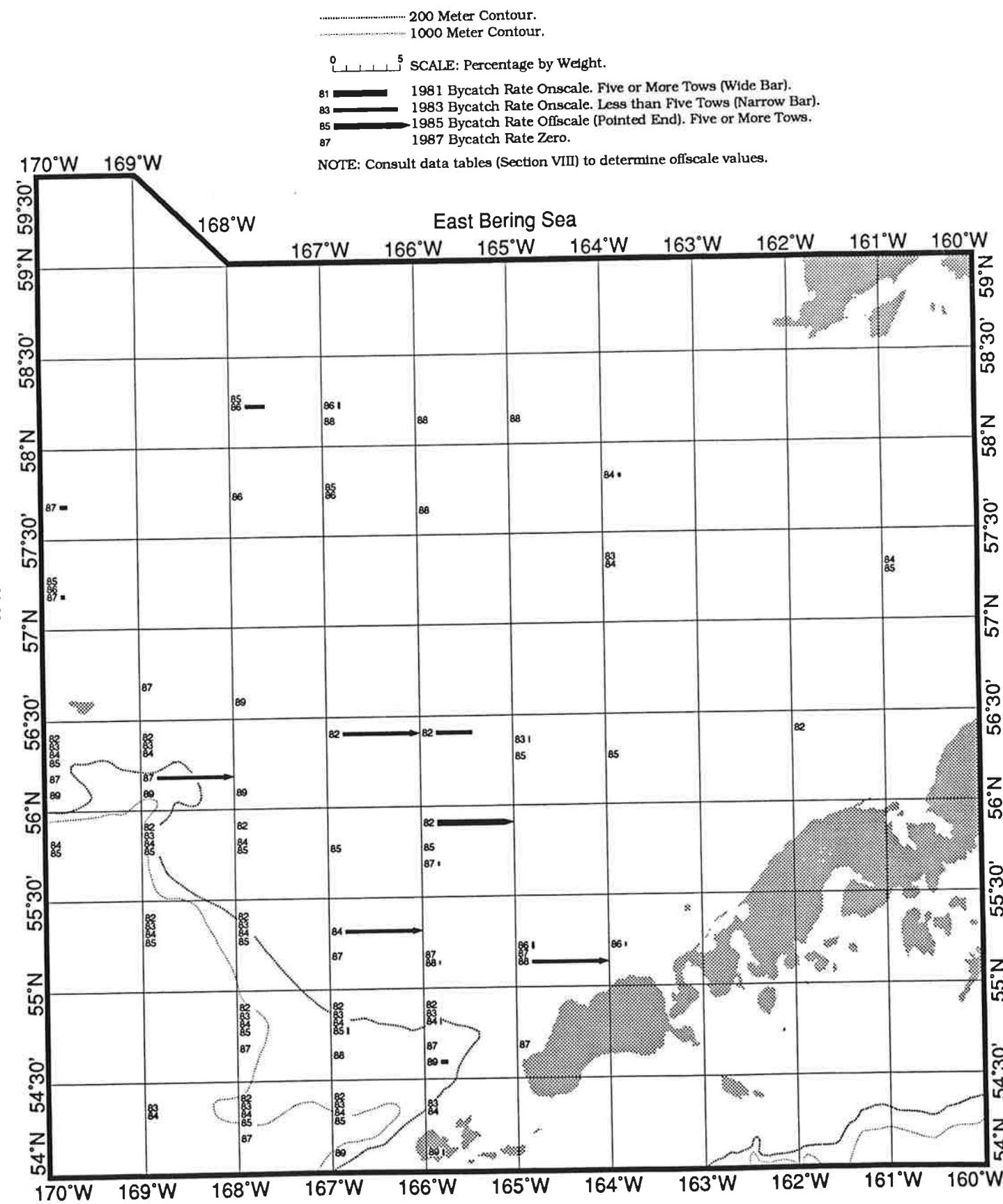


**September
MISCELLANEOUS SPECIES
Herring Bycatch Rate**

Seguam Pass

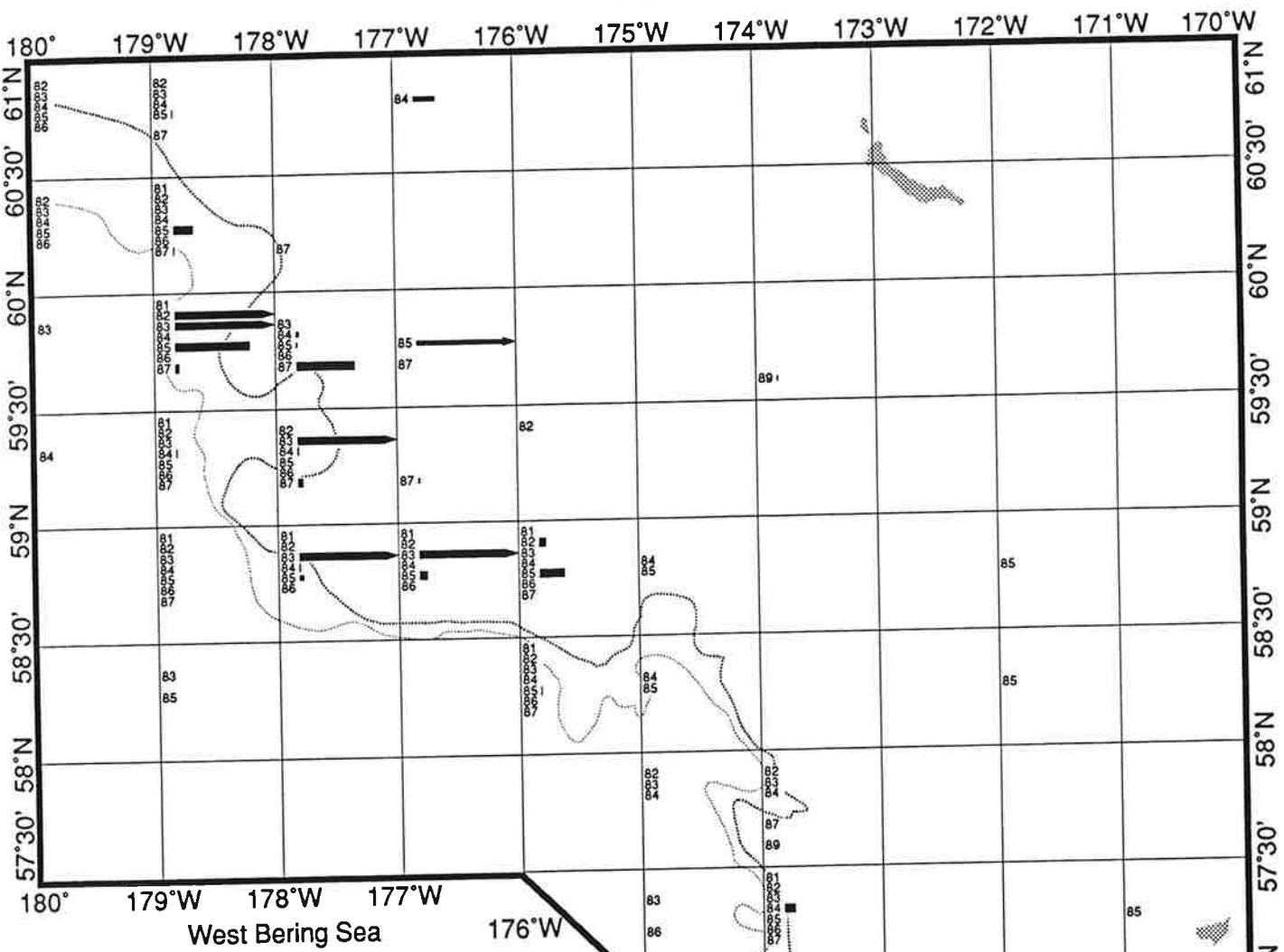
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

September
MISCELLANEOUS SPECIES
Herring Bycatch Rate



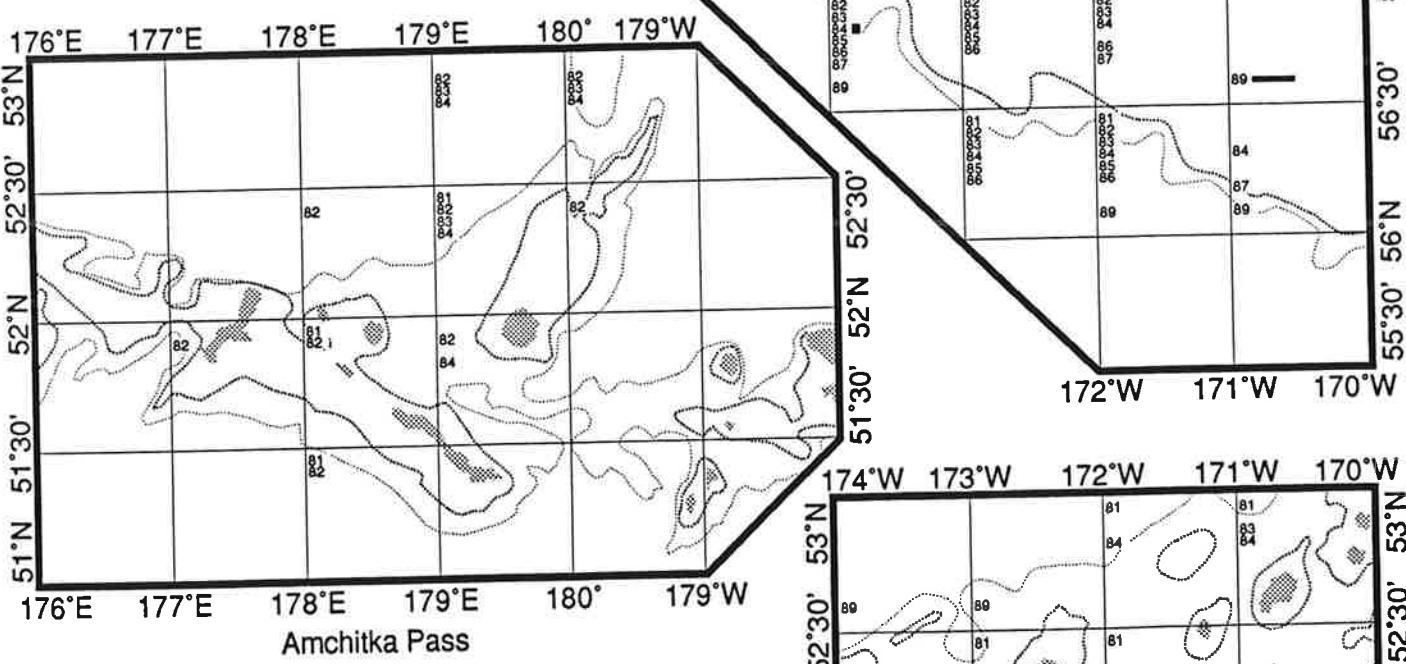
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

V-20



West Bering Sea

03-16-1991 12:54:46



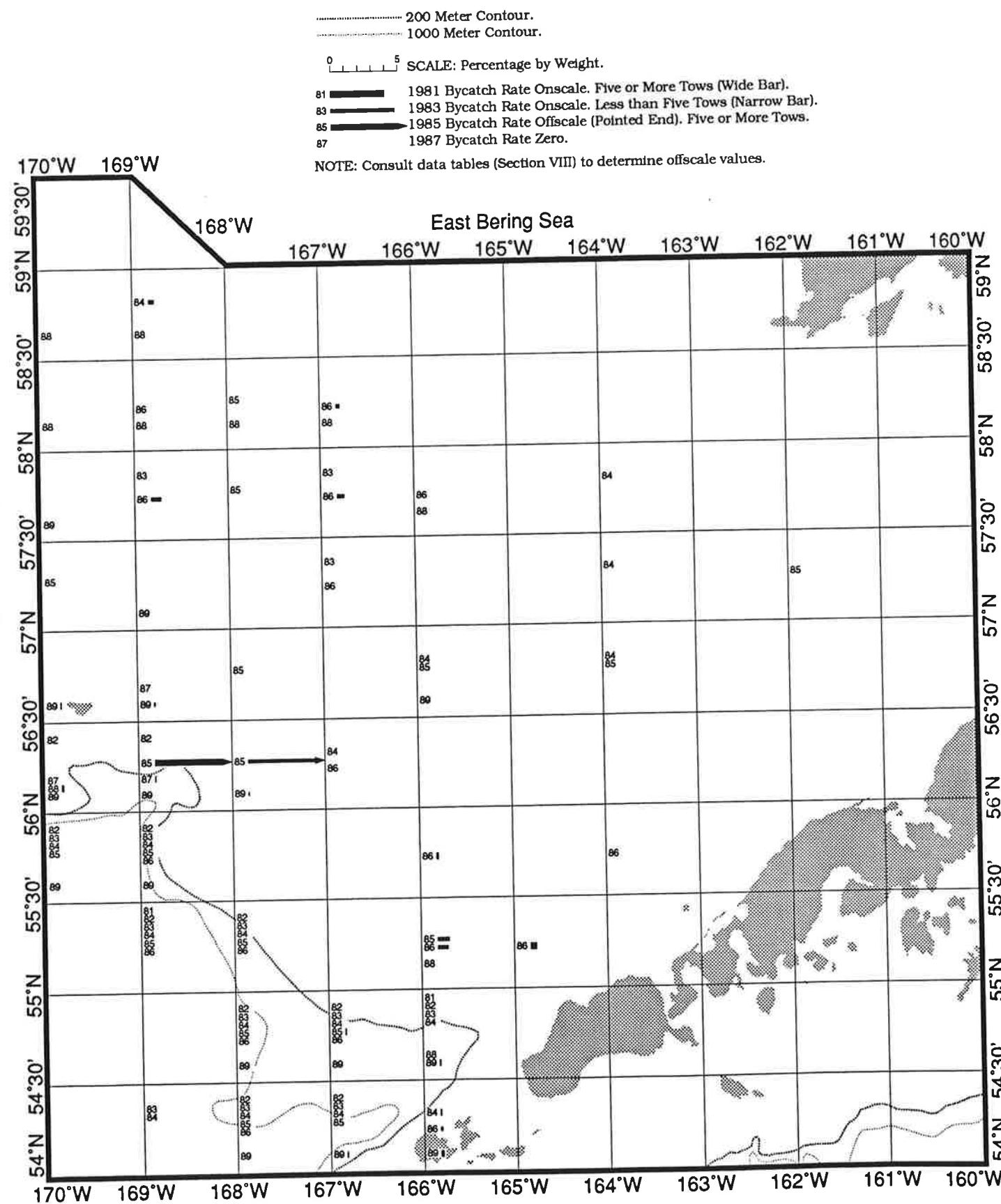
Amchitka Pass

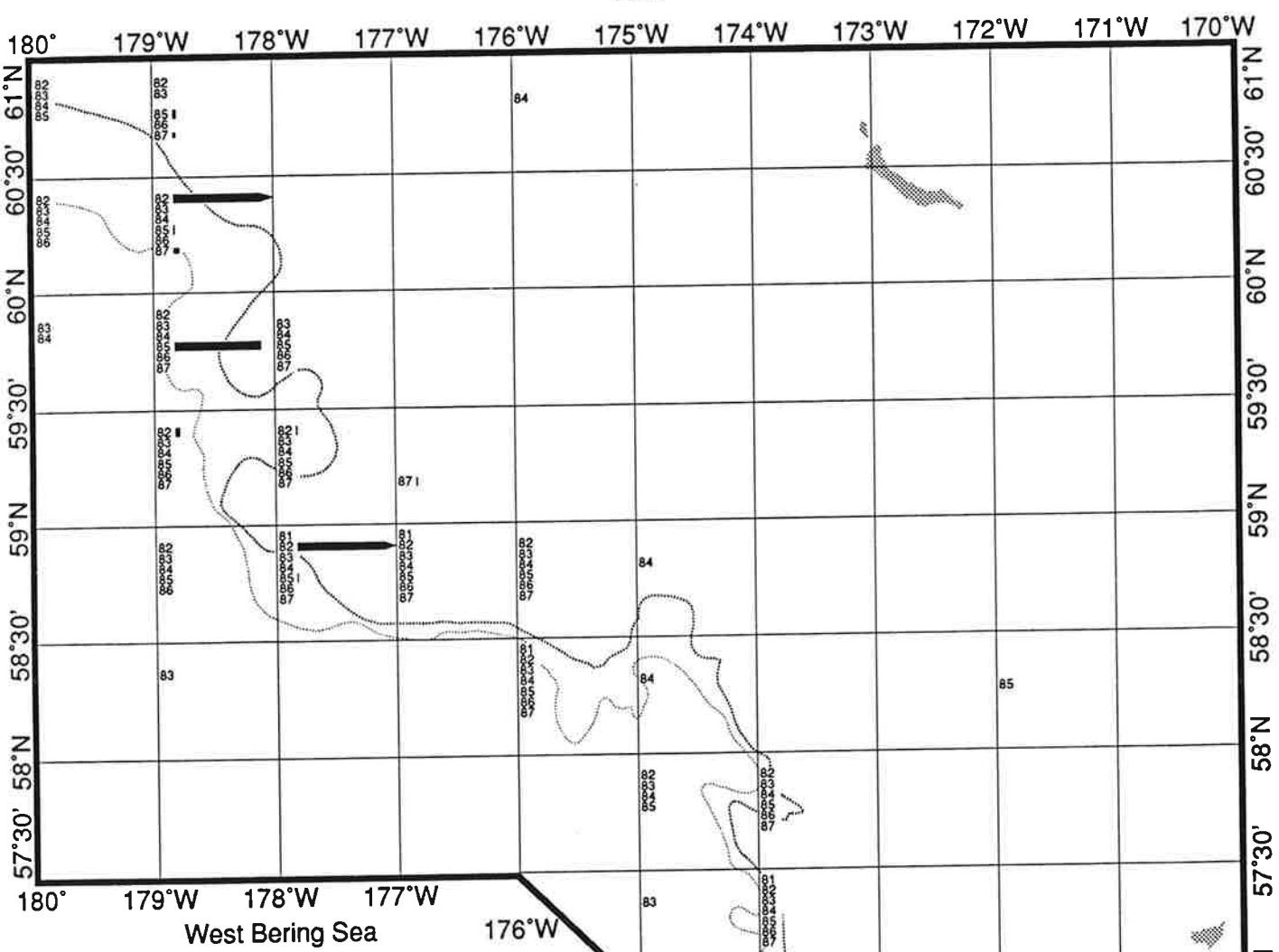
Seguam Pass

October
MISCELLANEOUS SPECIES
Herring Bycatch Rate

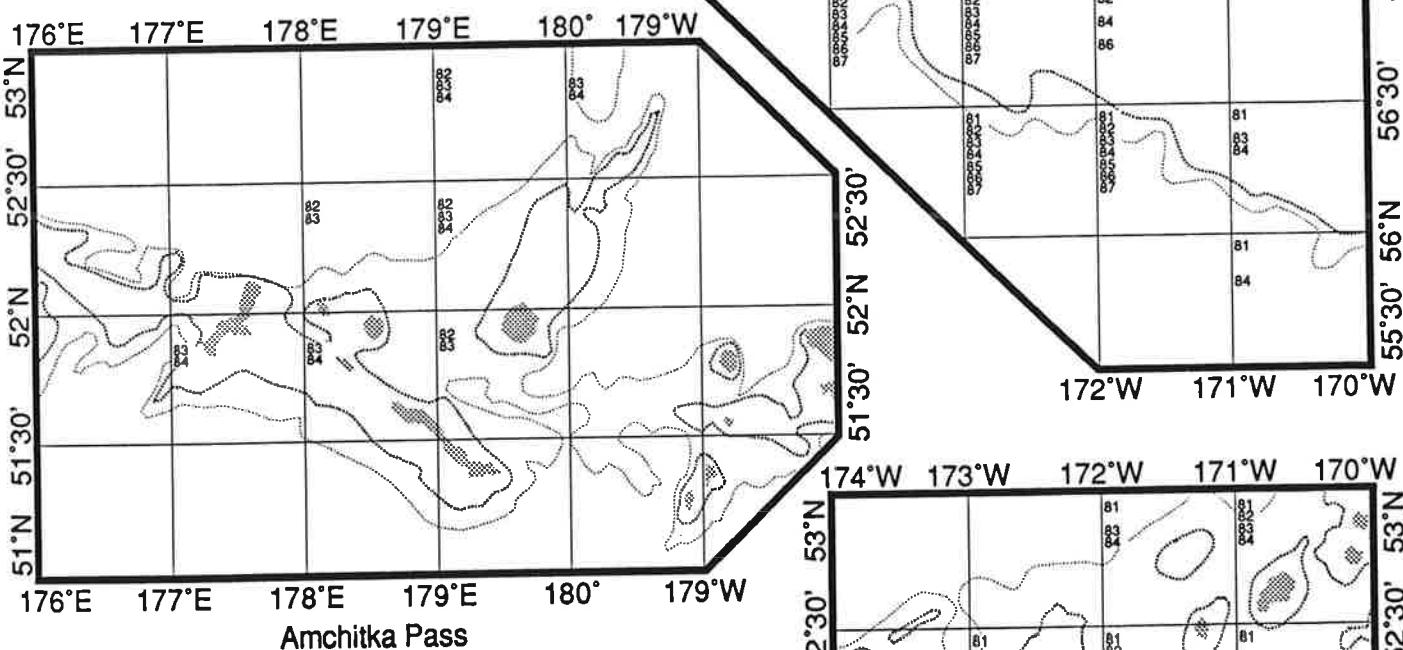
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

October
MISCELLANEOUS SPECIES
Herring Bycatch Rate





03-16-1991 12:54:46



**November
MISCELLANEOUS SPECIES
Herring Bycatch Rate**

Seguam Pass

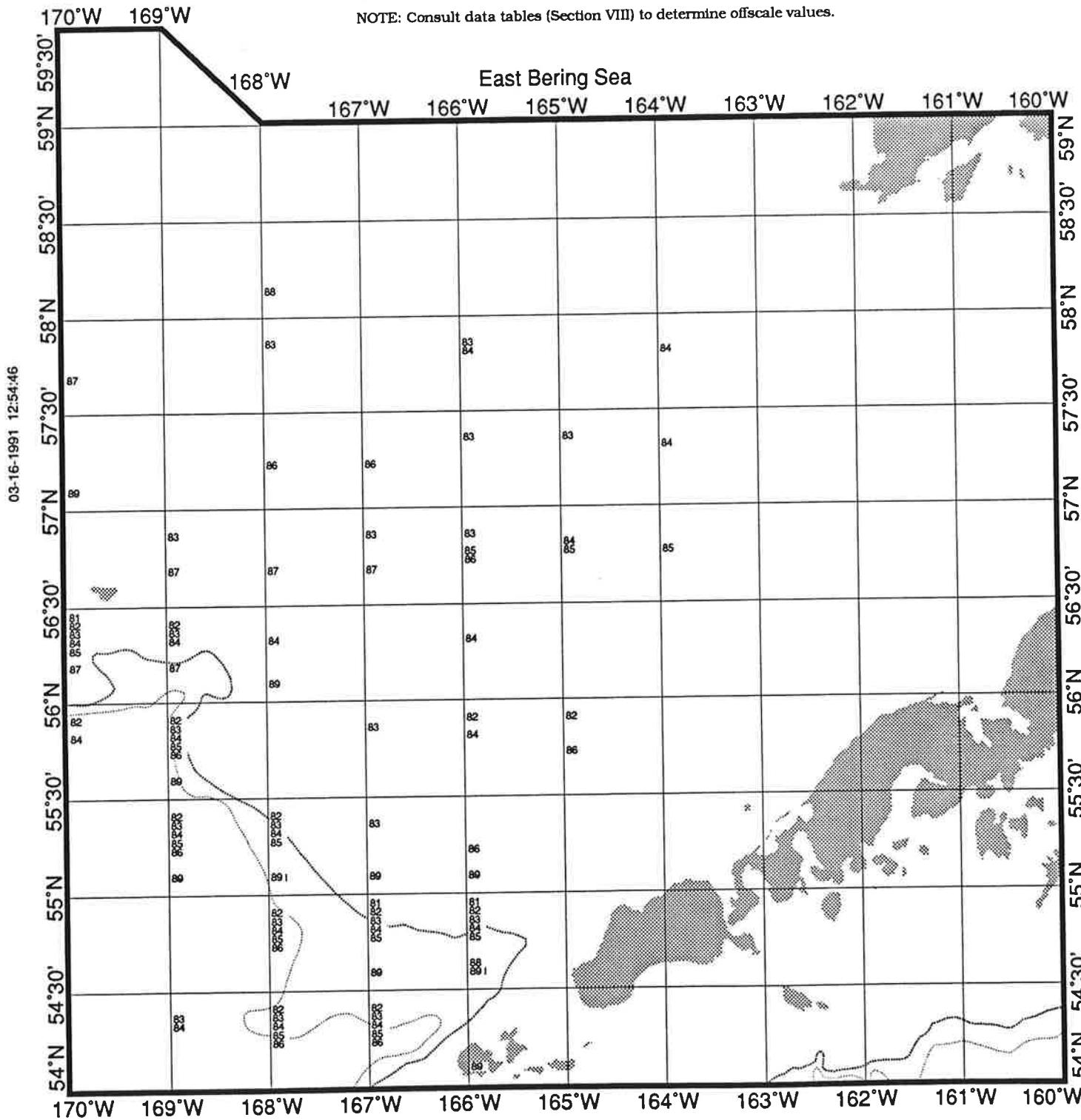
November
MISCELLANEOUS SPECIES
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

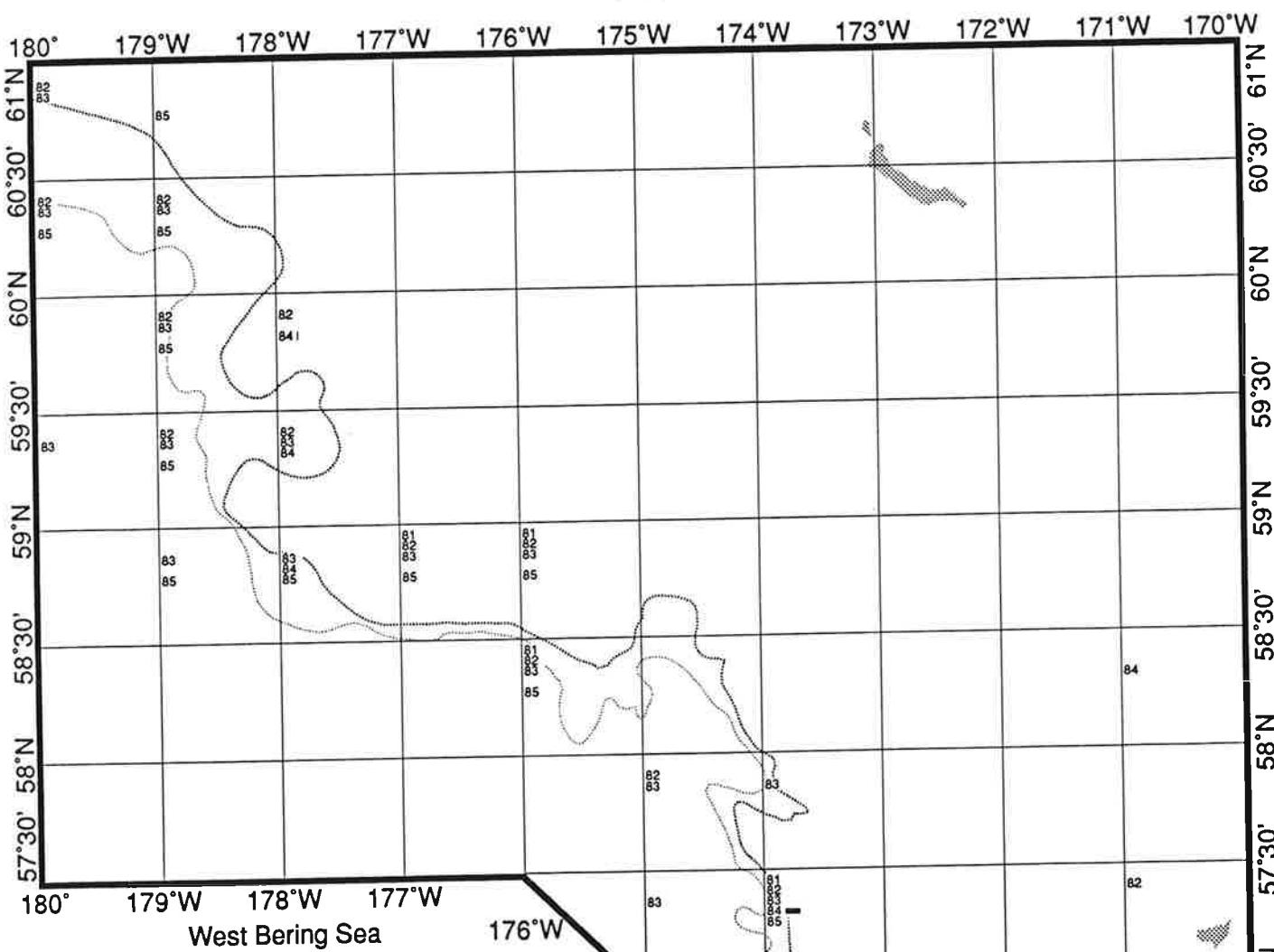
0 5 SCALE: Percentage by Weight.

- 81 ————— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ————— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

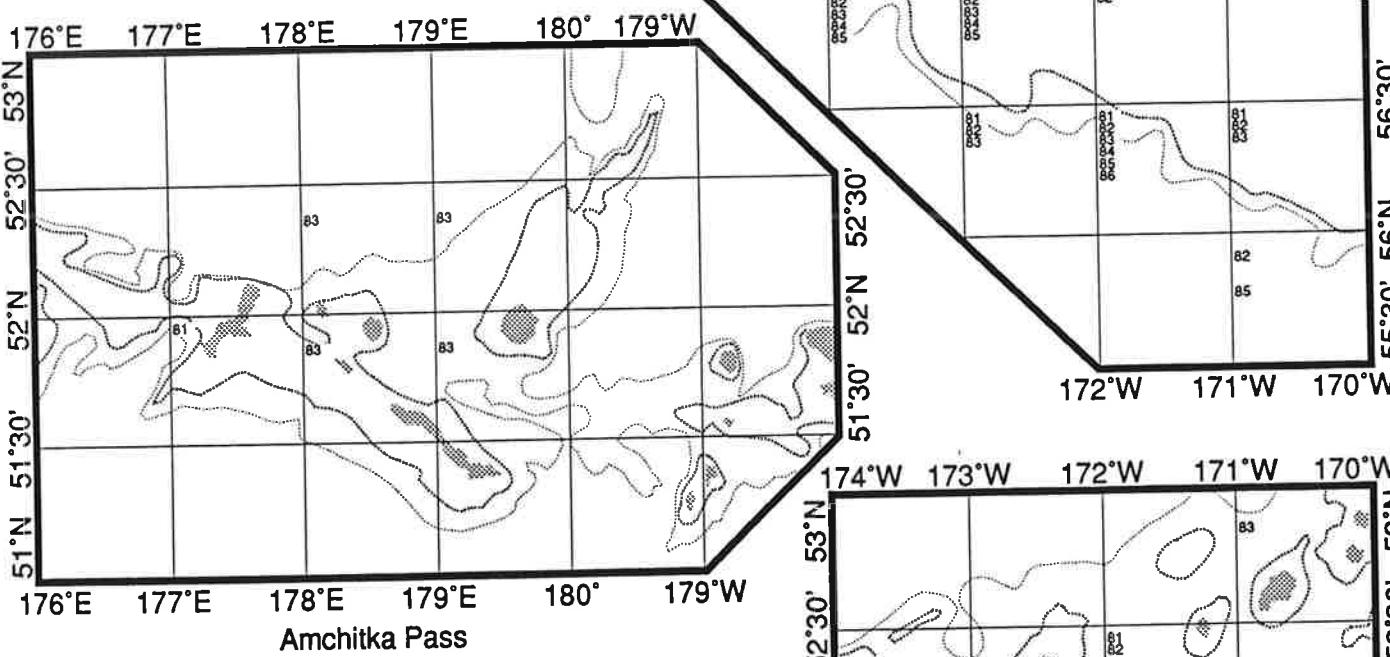


V-24



West Bering Sea

03-16-1991 12:54:46



Amchitka Pass

Seguam Pass

**December
MISCELLANEOUS SPECIES
Herring Bycatch Rate**

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

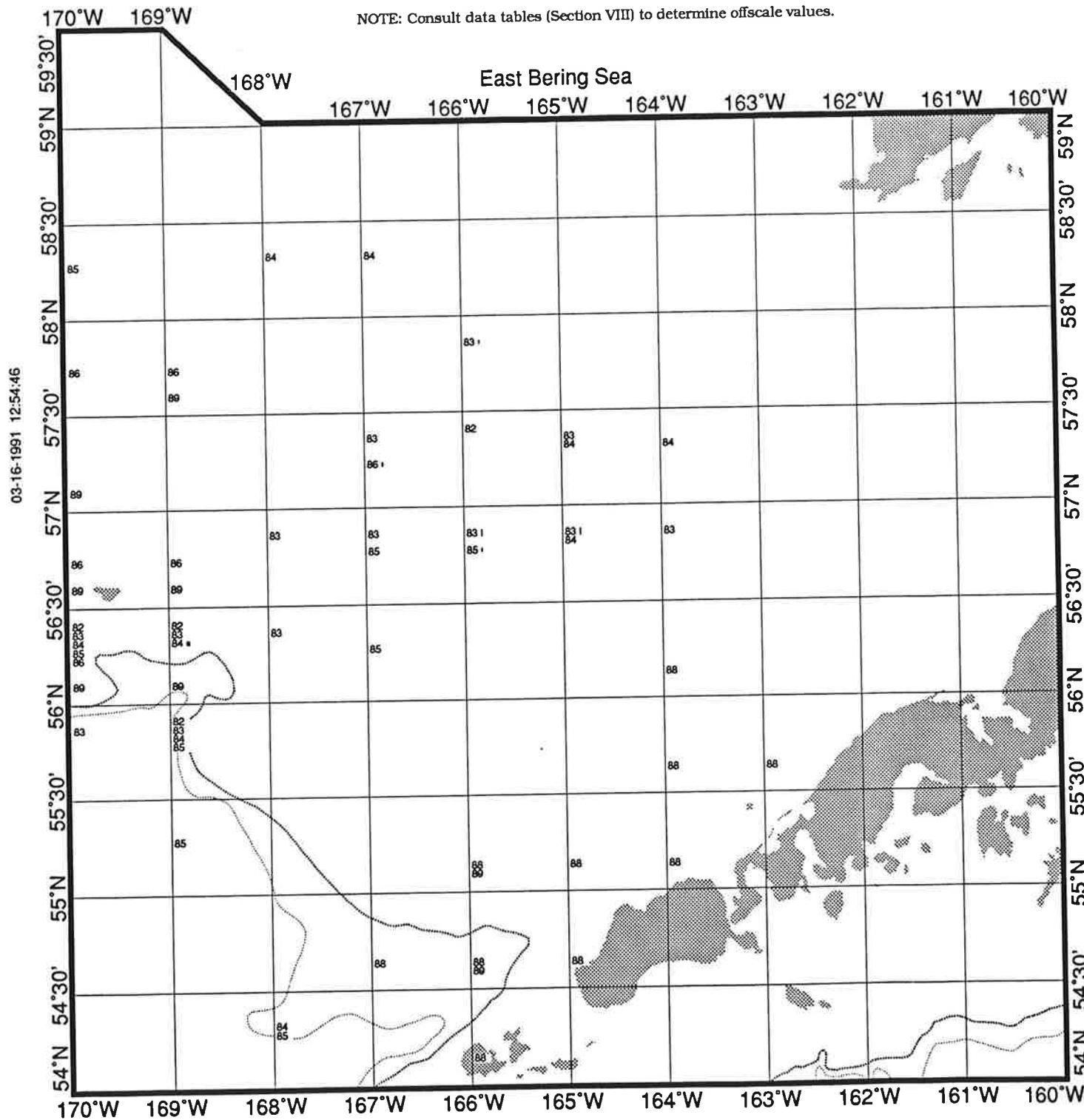
December
MISCELLANEOUS SPECIES
Herring Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 SCALE: Percentage by Weight.

- 81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 1987 Bycatch Rate Zero.

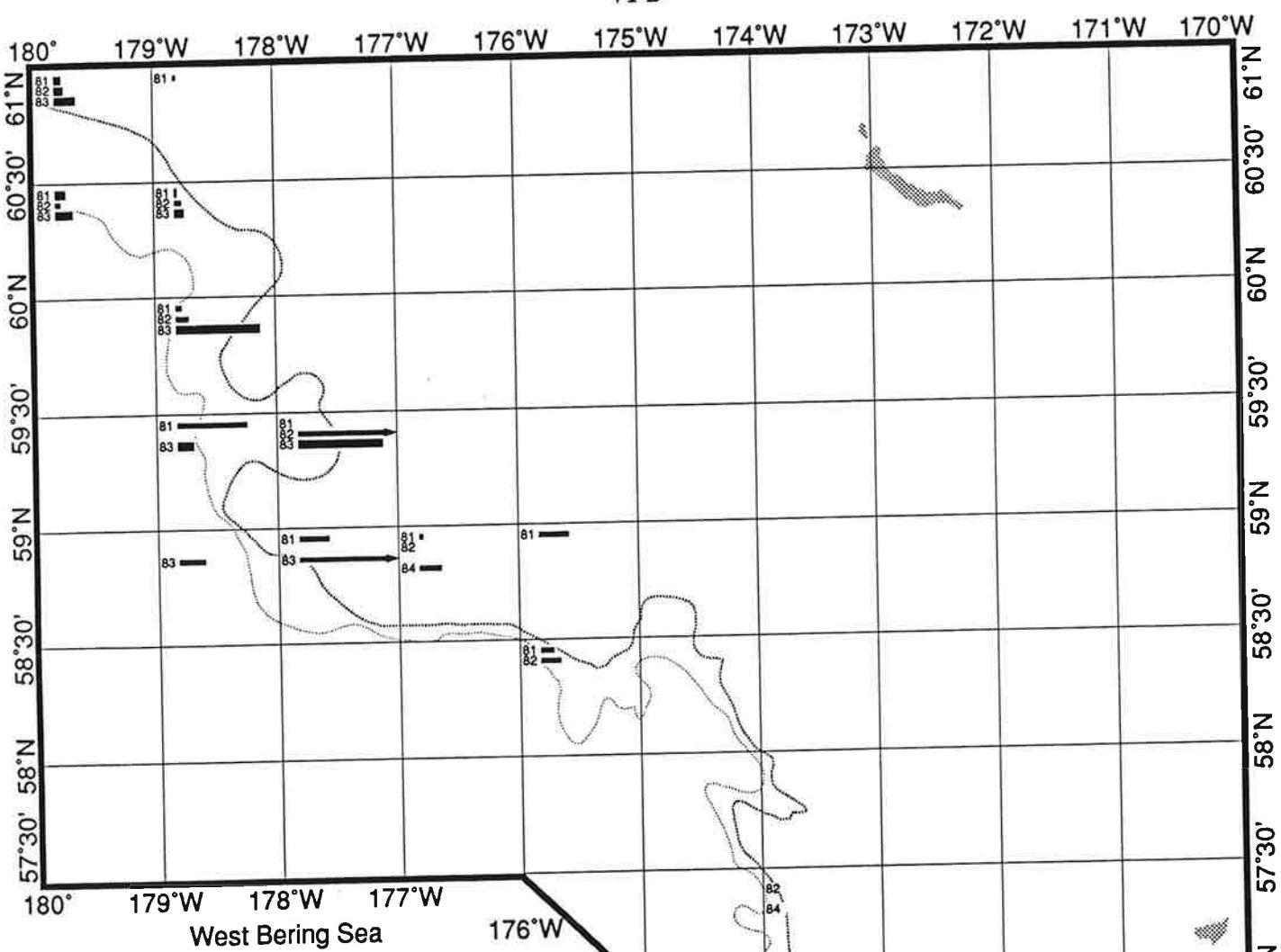
NOTE: Consult data tables (Section VIII) to determine offscale values.



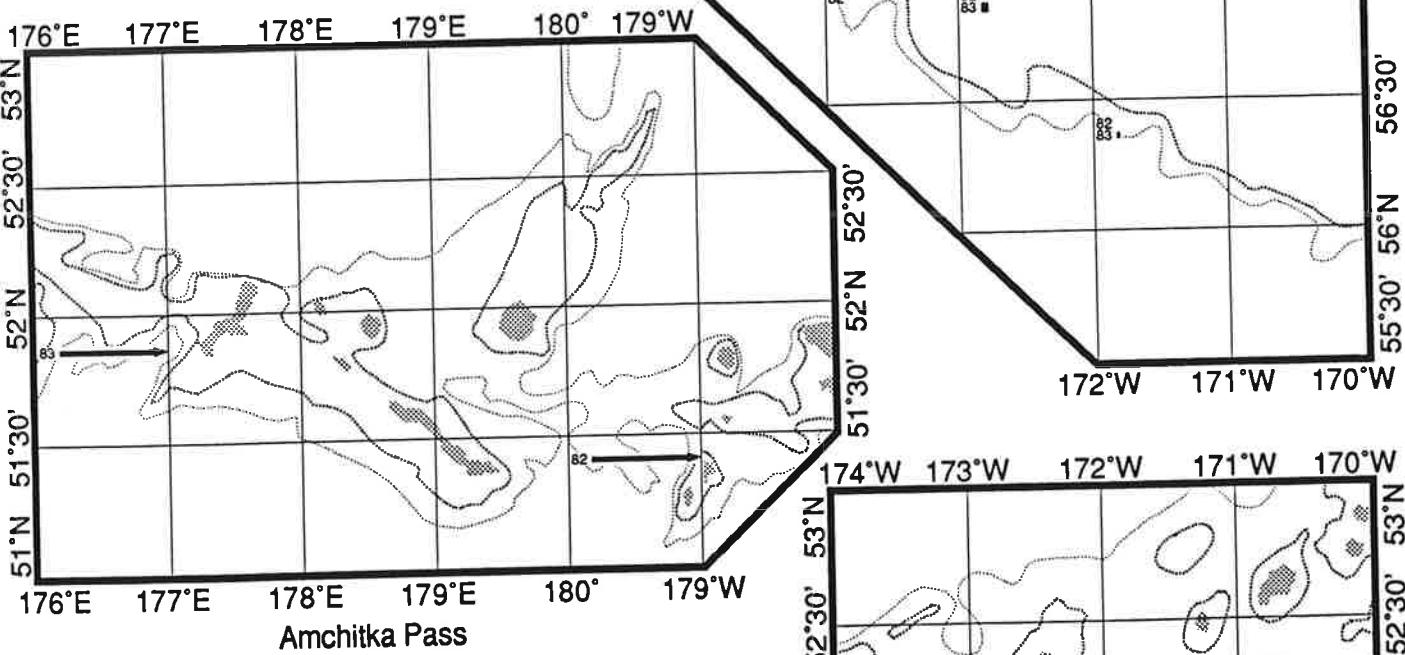
SECTION VI

KING CRAB BYCATCH RATE CHARTS

VI-2



03-16-1991 13:14:17



**January MISCELLANEOUS SPECIES
King Crab Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

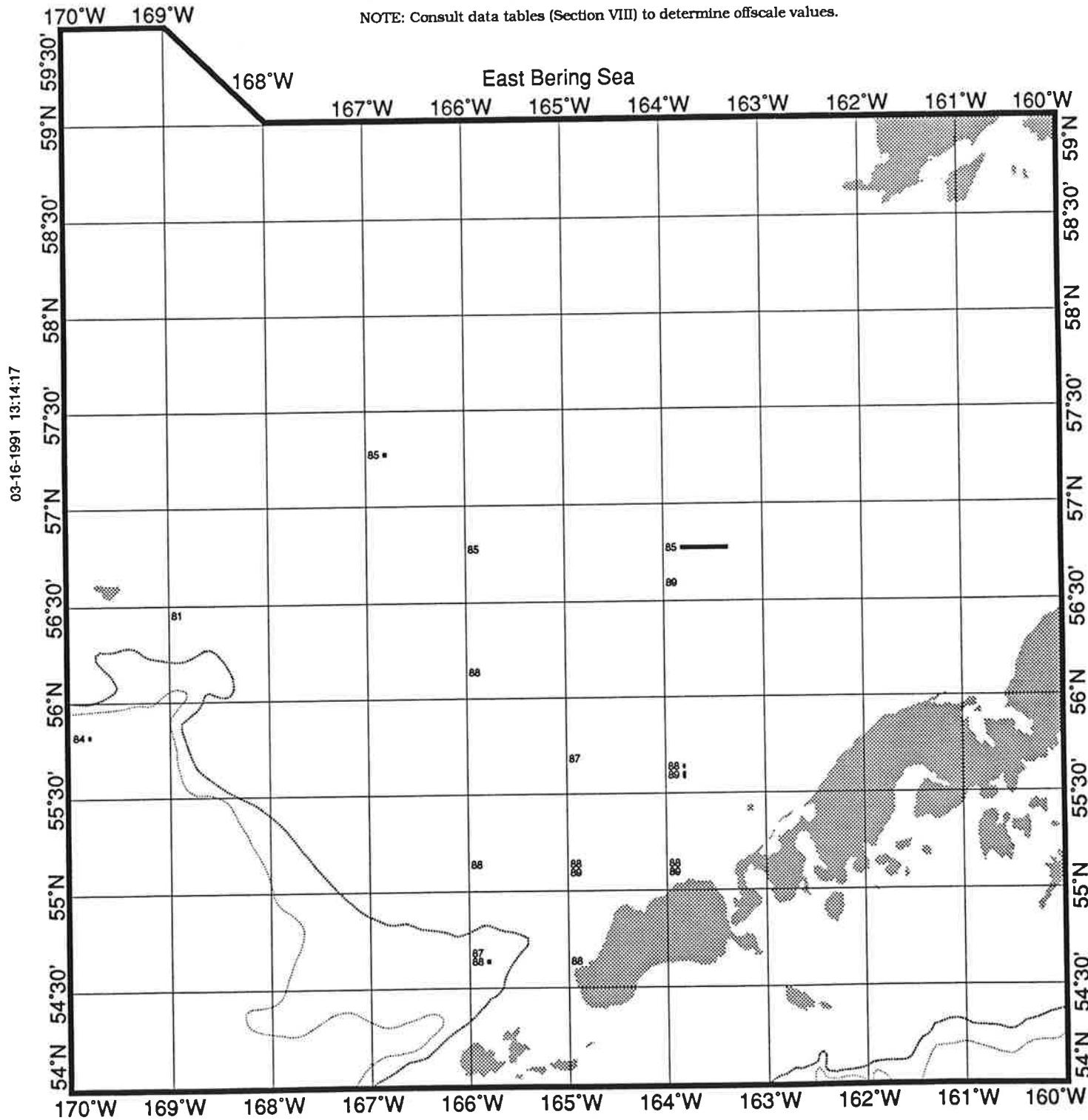
January
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

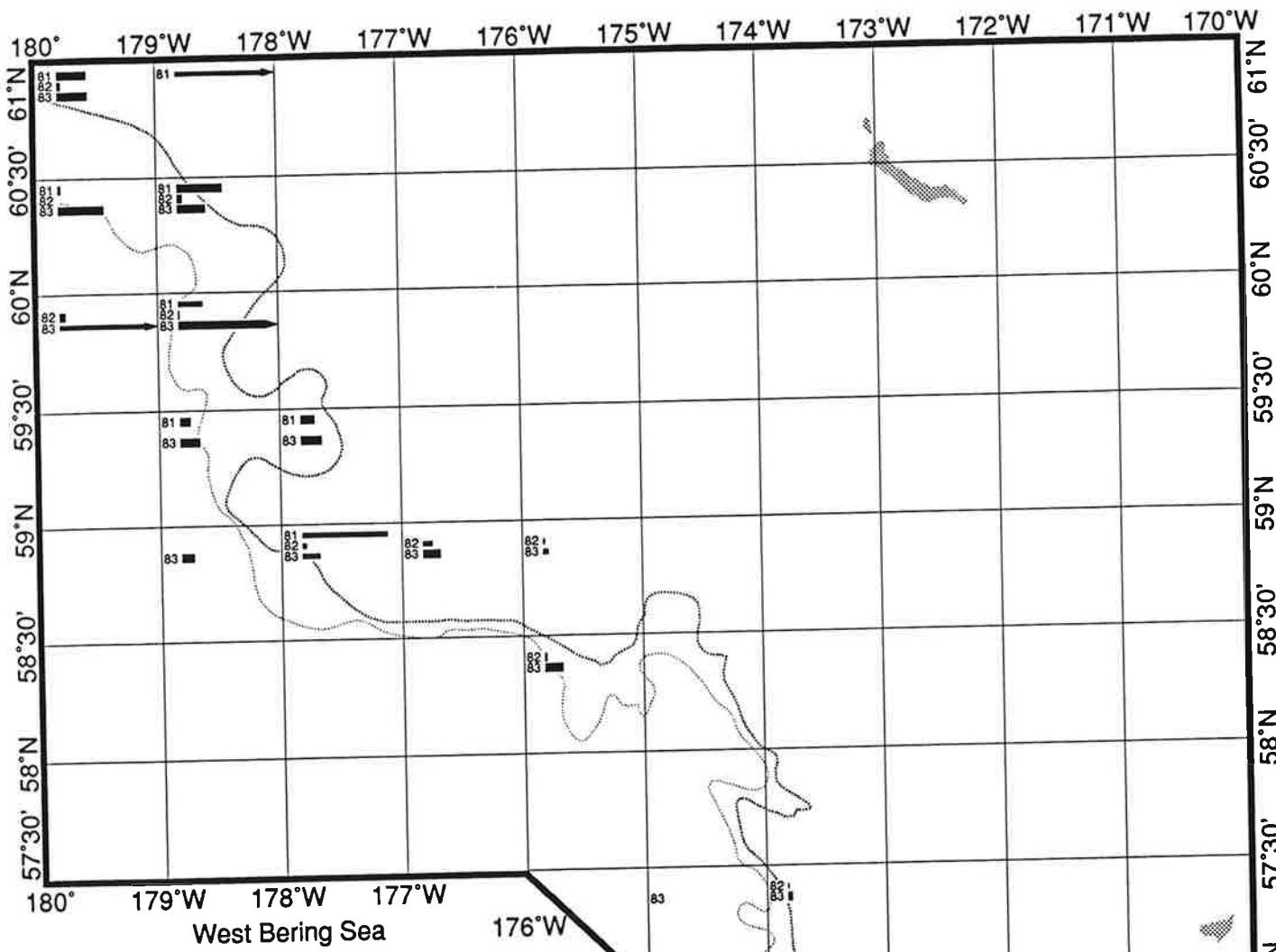
0 5 10 SCALE: Individuals per Metric Ton.

81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

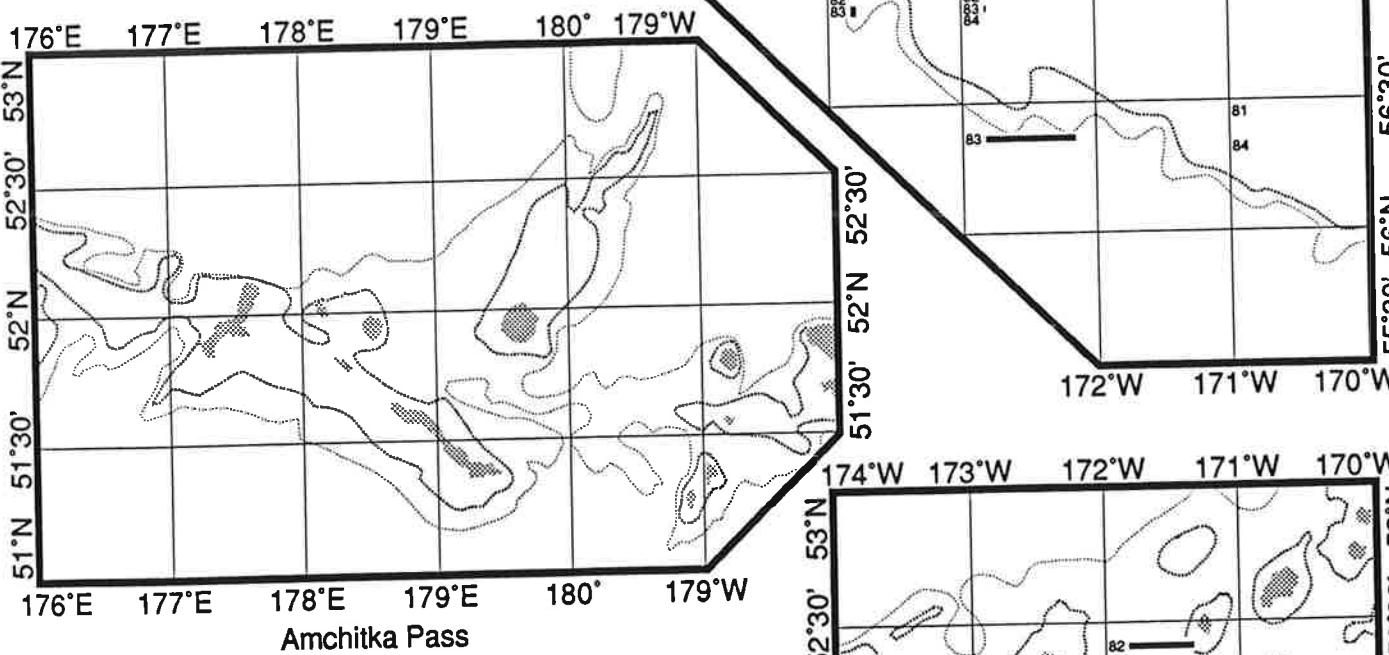
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-4



03-16-1991 13:14:17



February
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

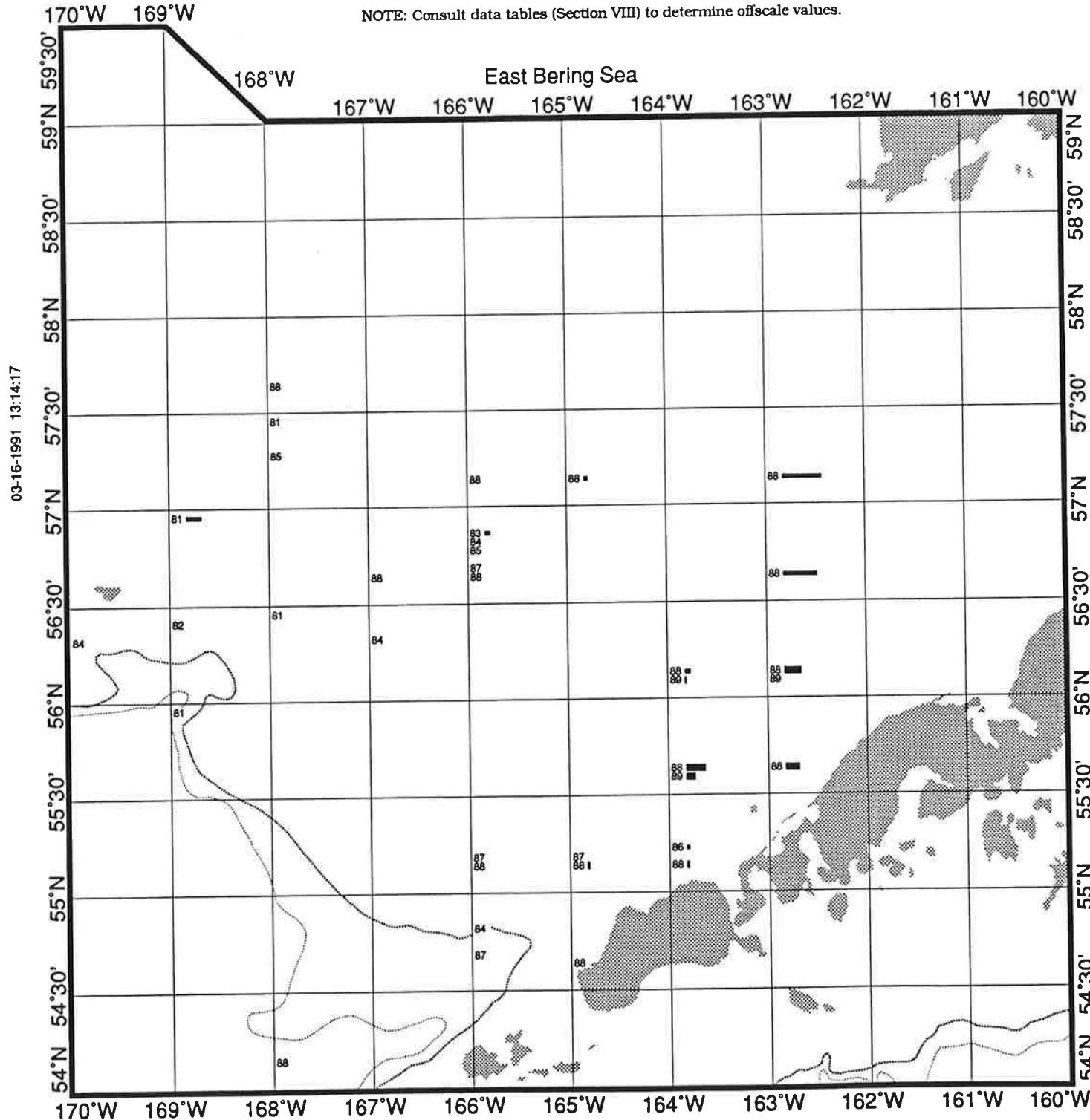
February
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

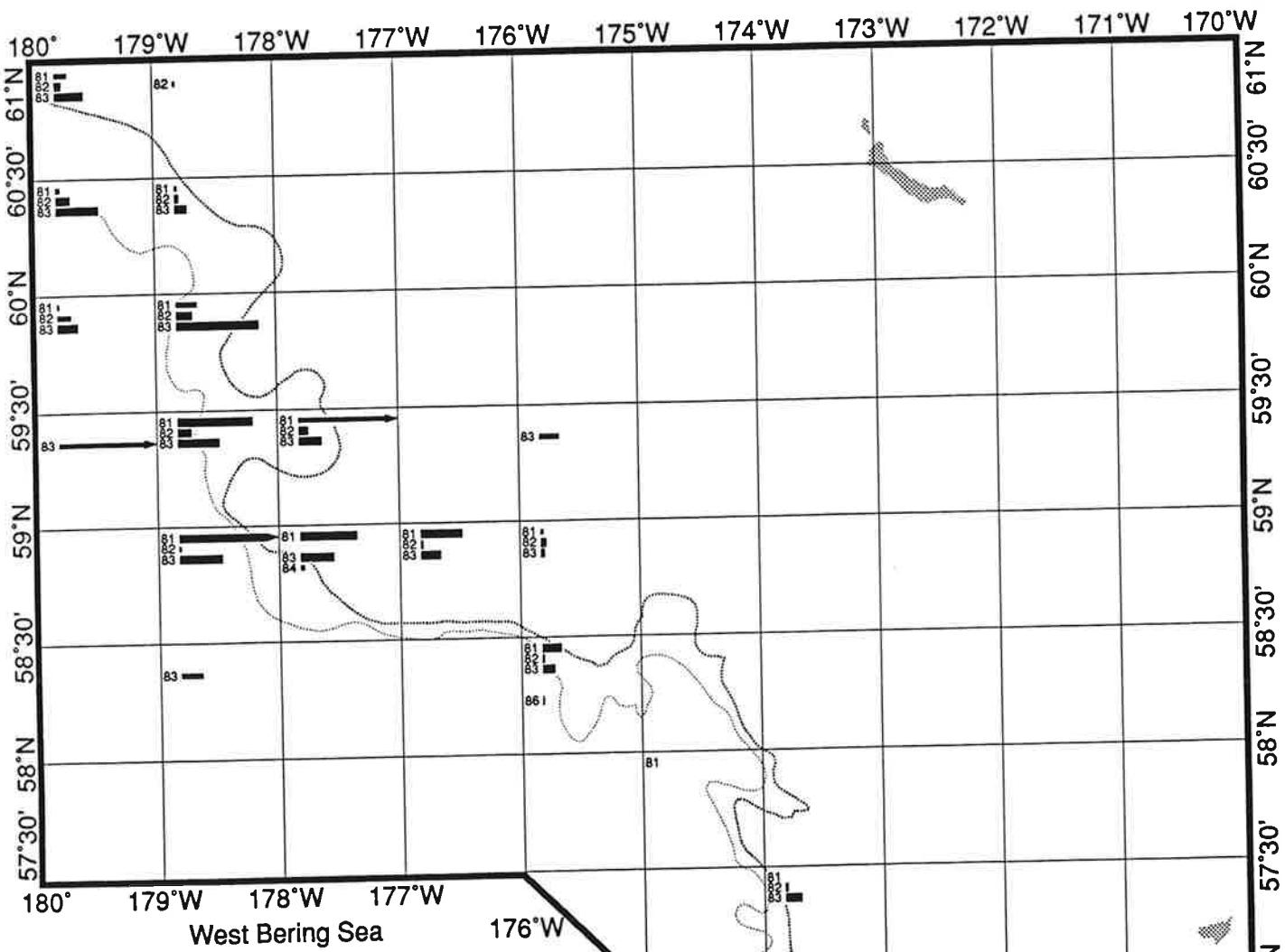
0 5 10 SCALE: Individuals per Metric Ton.

81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 ——— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 ——— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

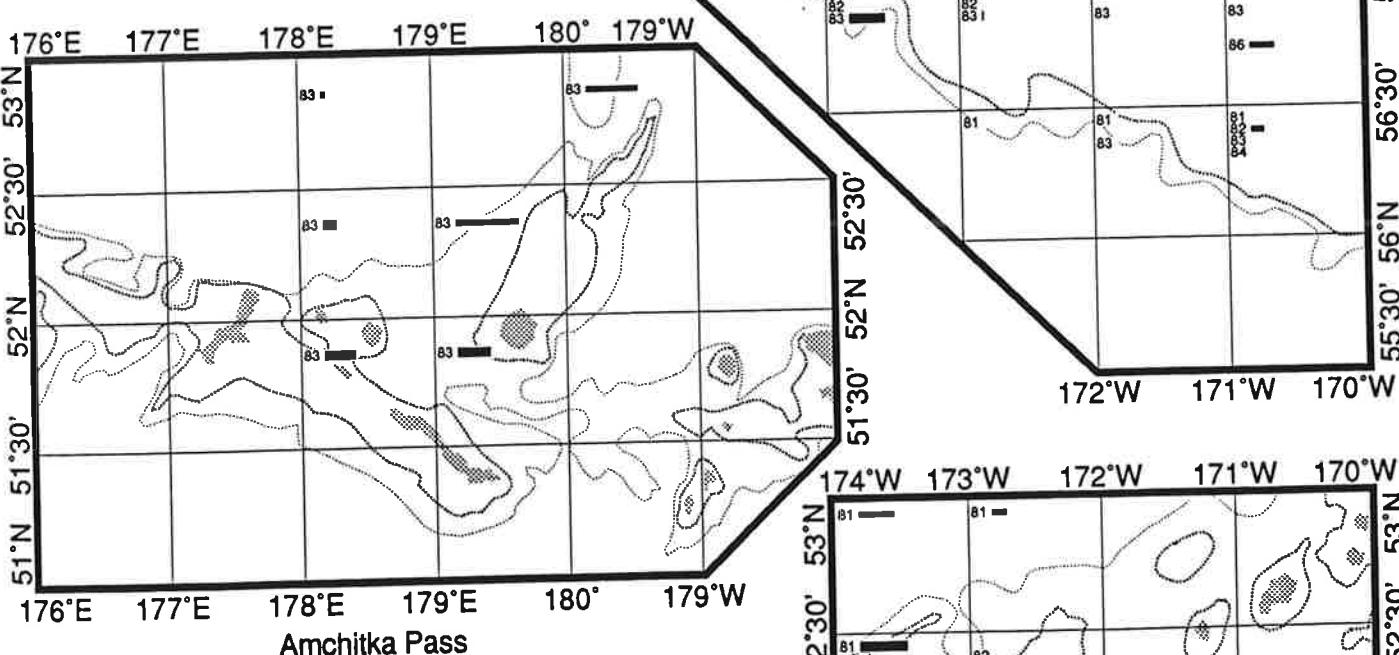


VI-6



West Bering Sea

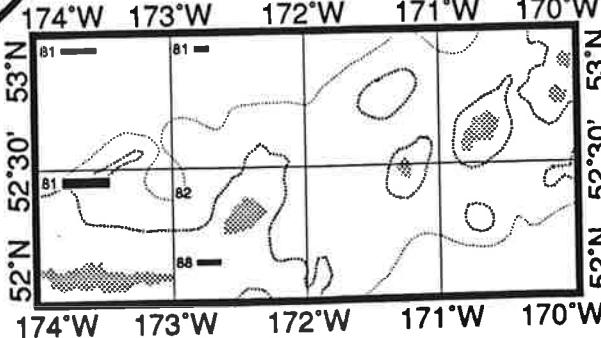
03-16-1991 13:14:17



Amchitka Pass

March
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

March

MISCELLANEOUS SPECIES

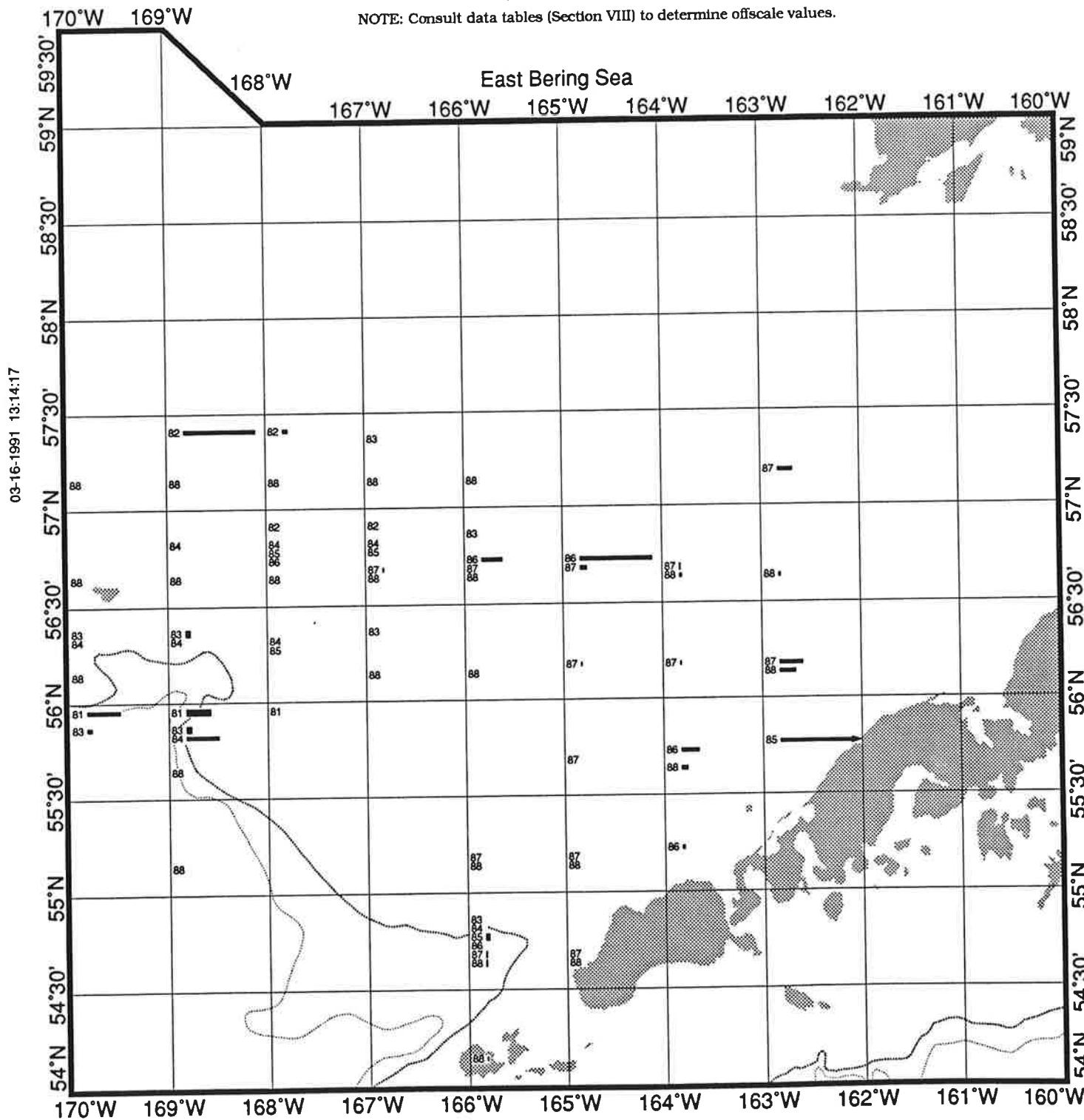
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

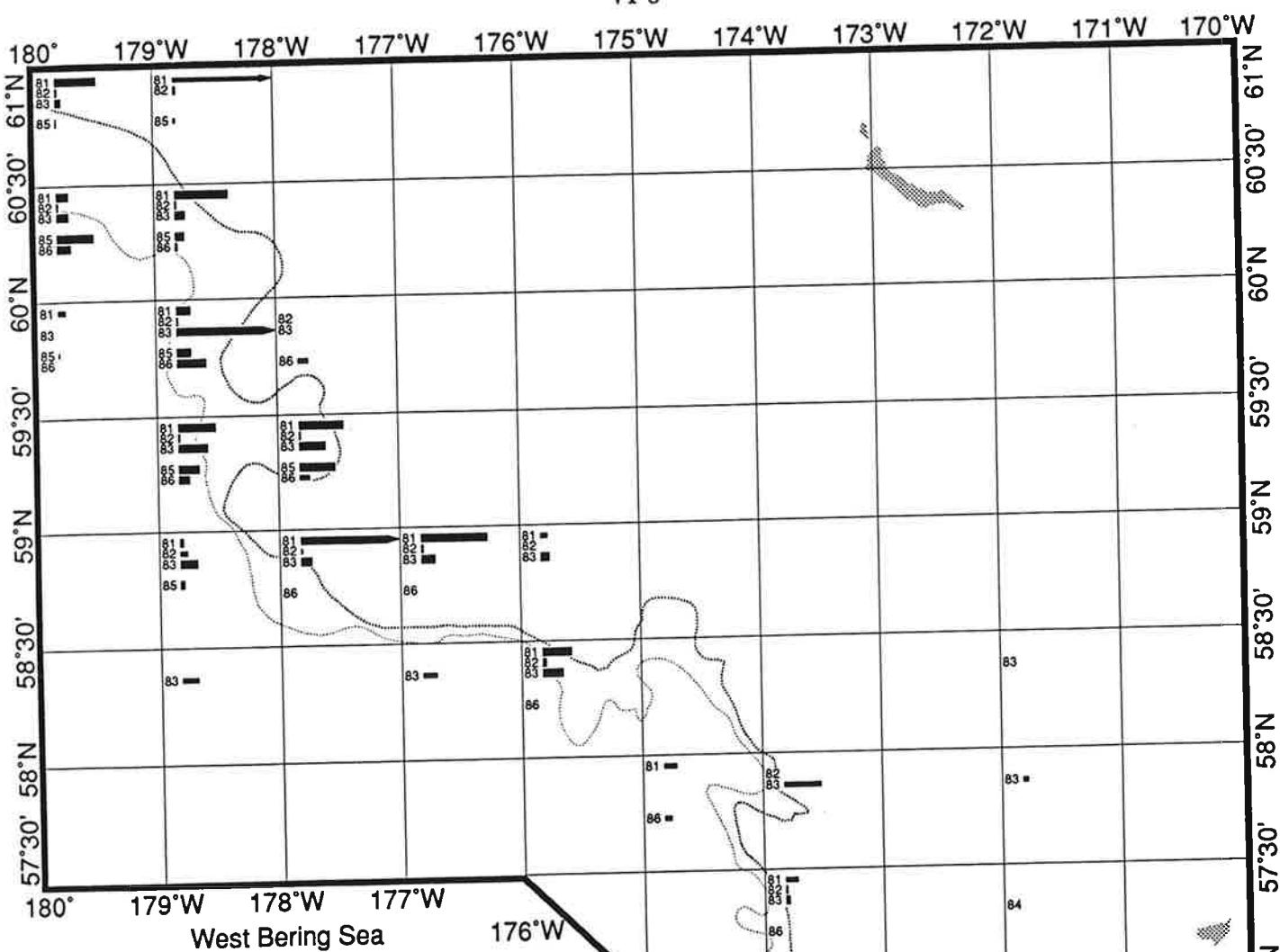
0 5 10 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ——— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ——— 1987 Bycatch Rate Zero.

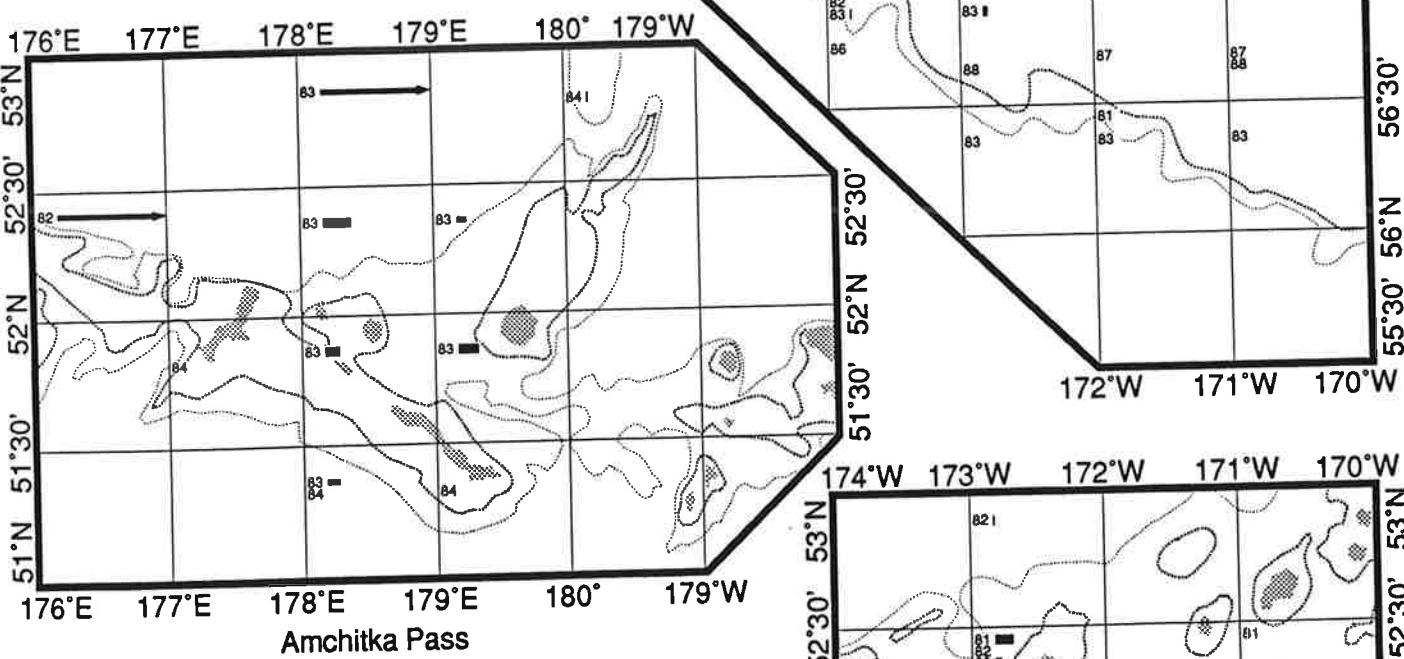
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-8



03-16-1991 13:14:17



April
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

April

MISCELLANEOUS SPECIES

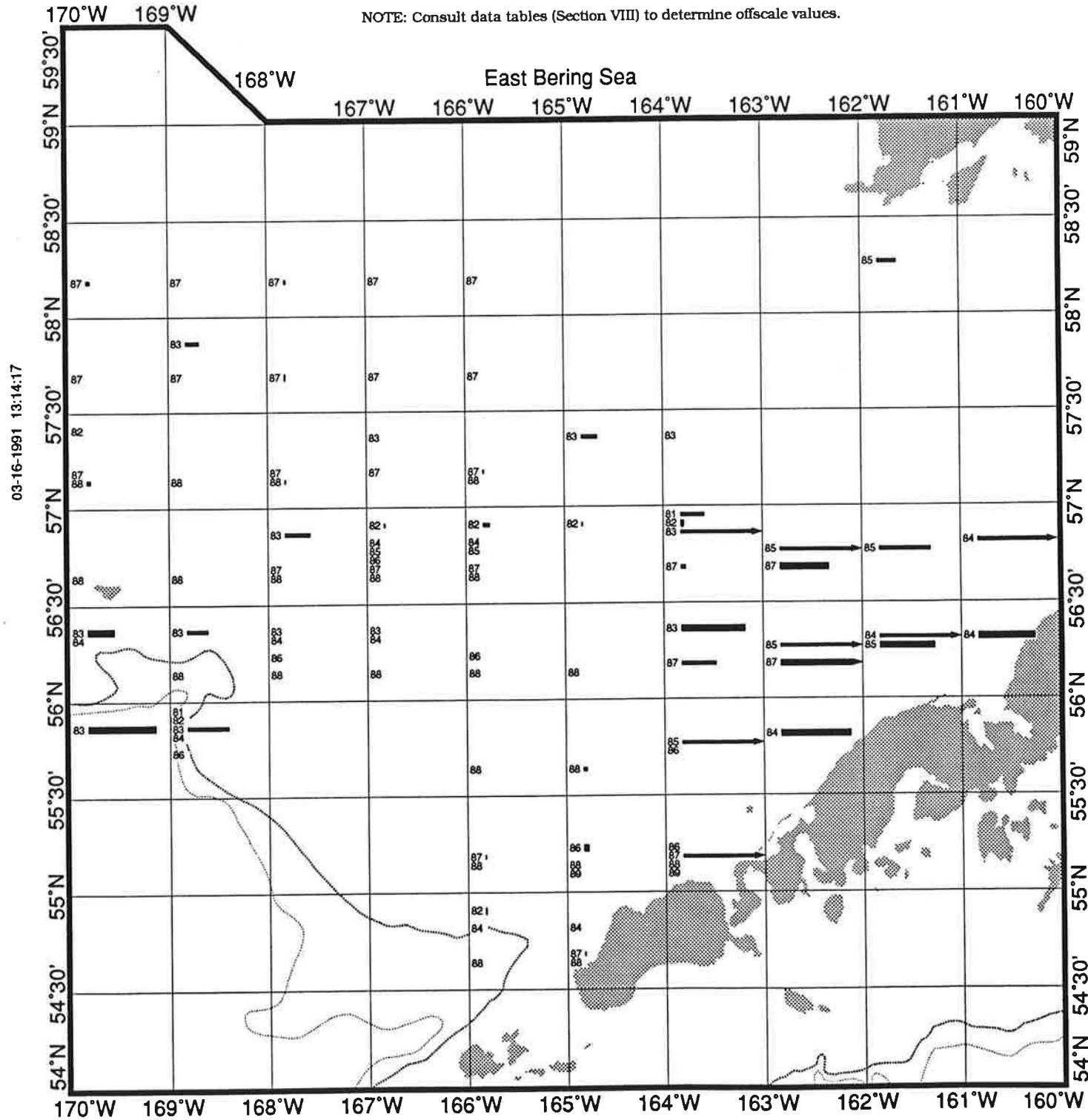
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

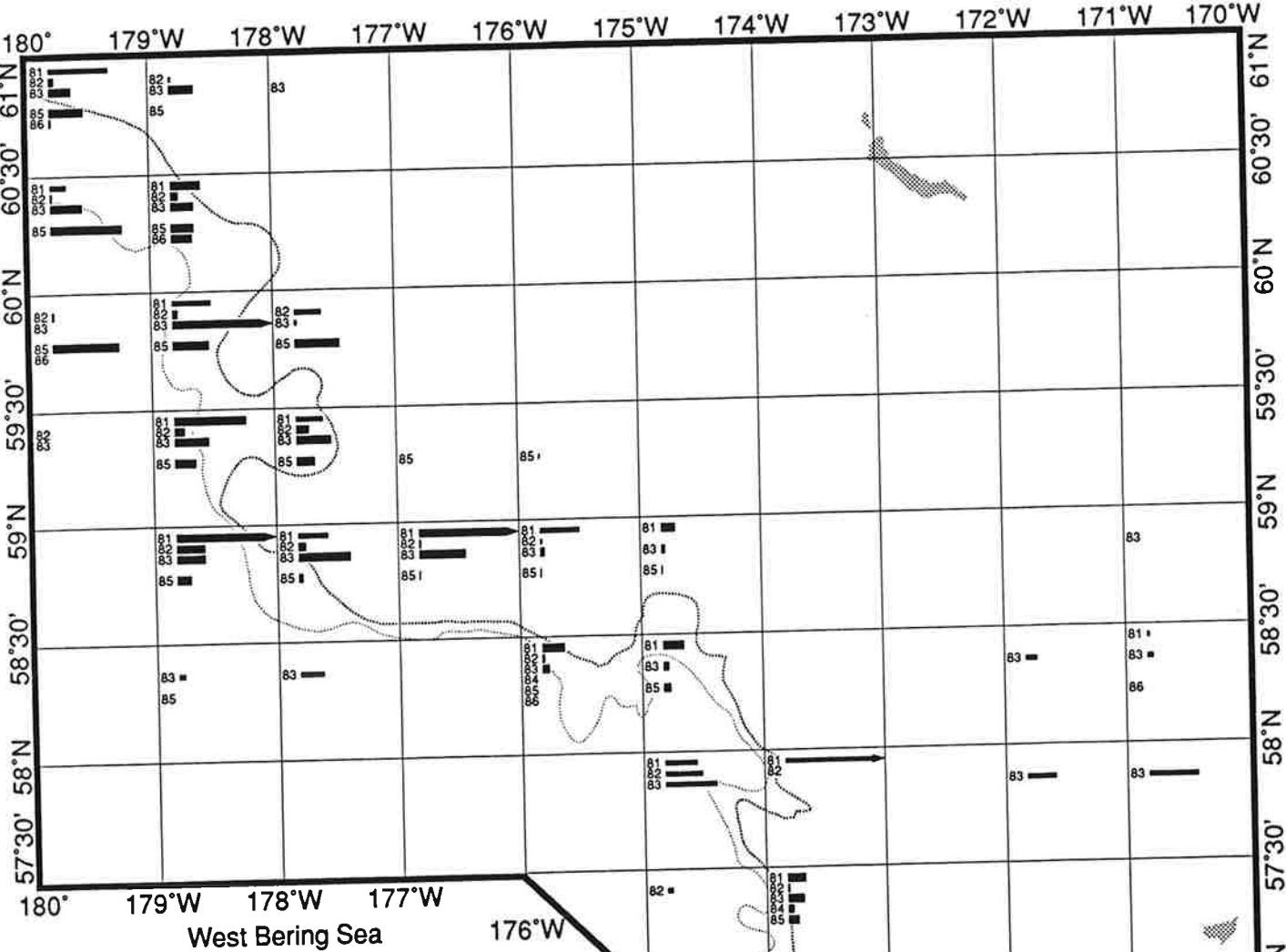
0 5 10 SCALE: Individuals per Metric Ton.

- 81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 — 1987 Bycatch Rate Zero.

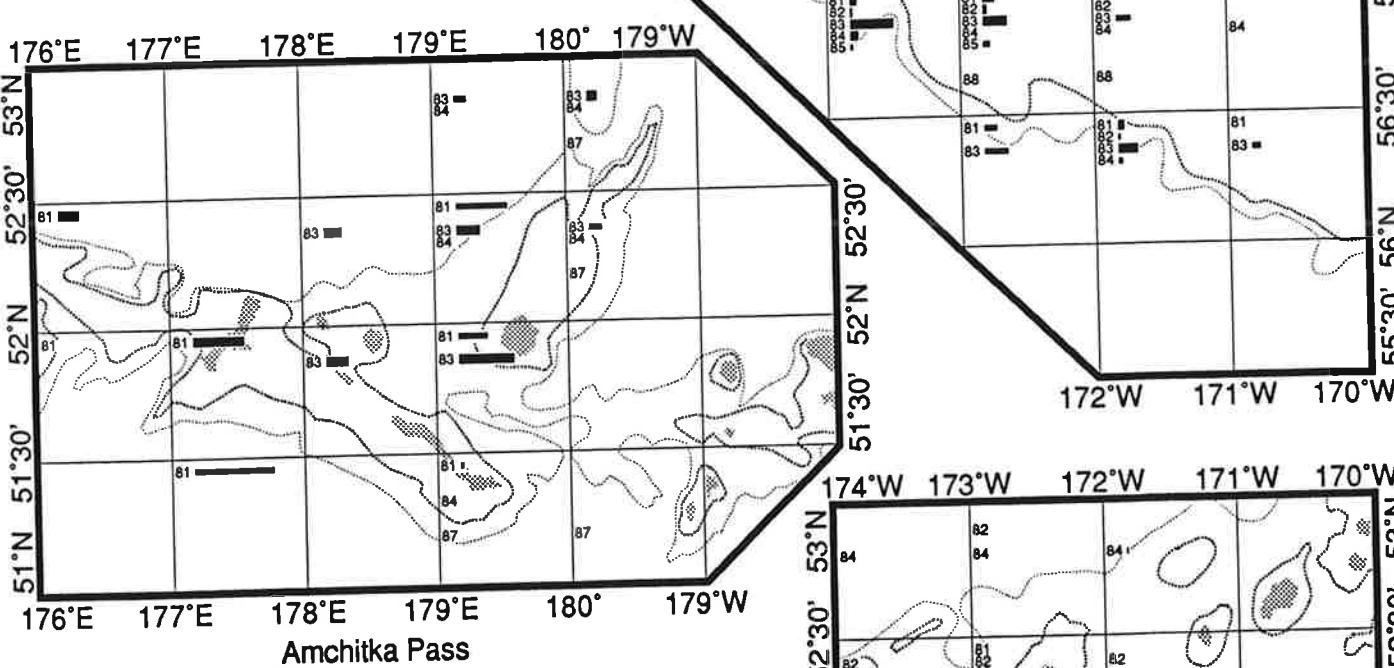
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-10



03-16-1991 13:14:17



May
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

May

MISCELLANEOUS SPECIES

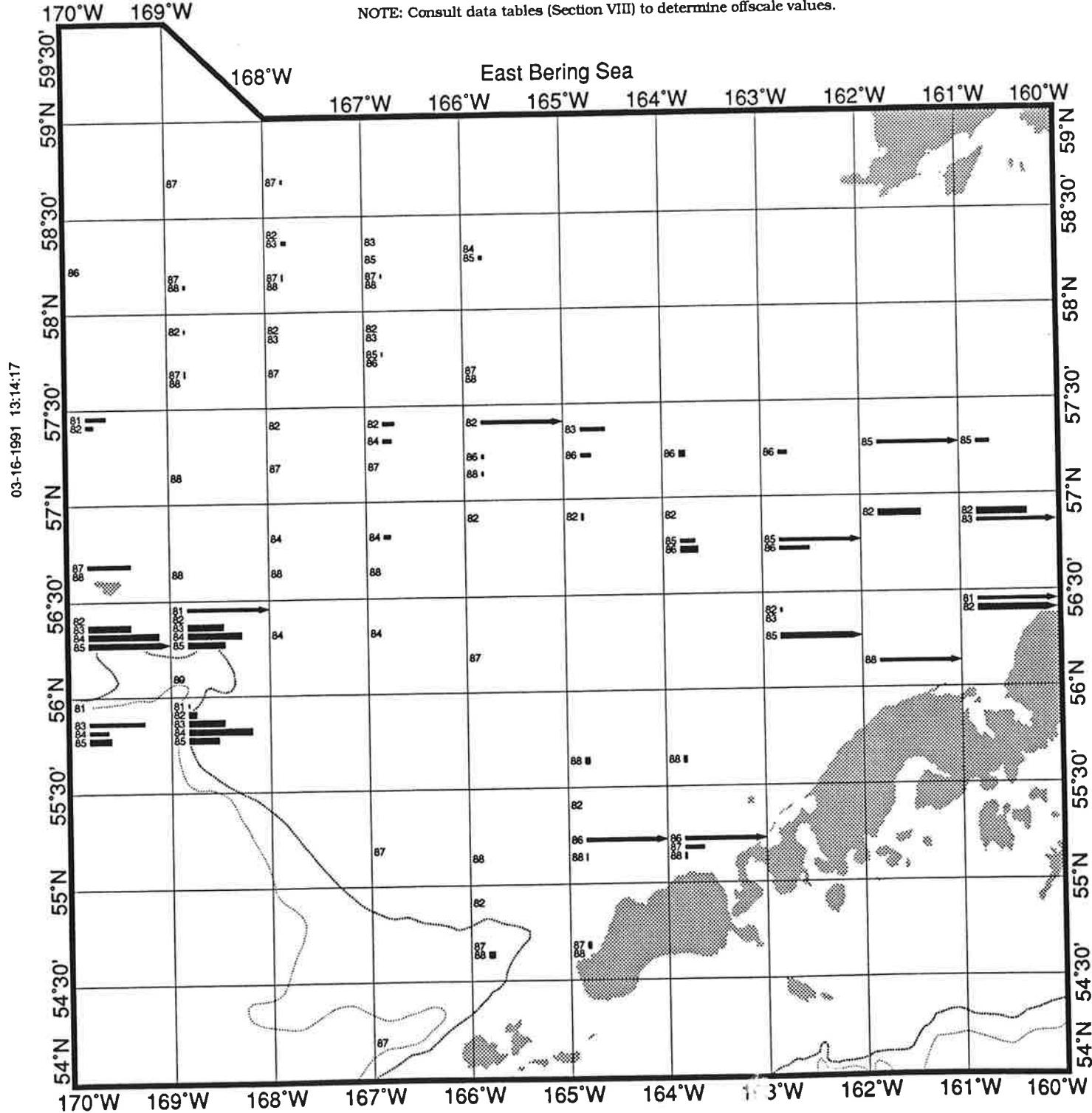
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

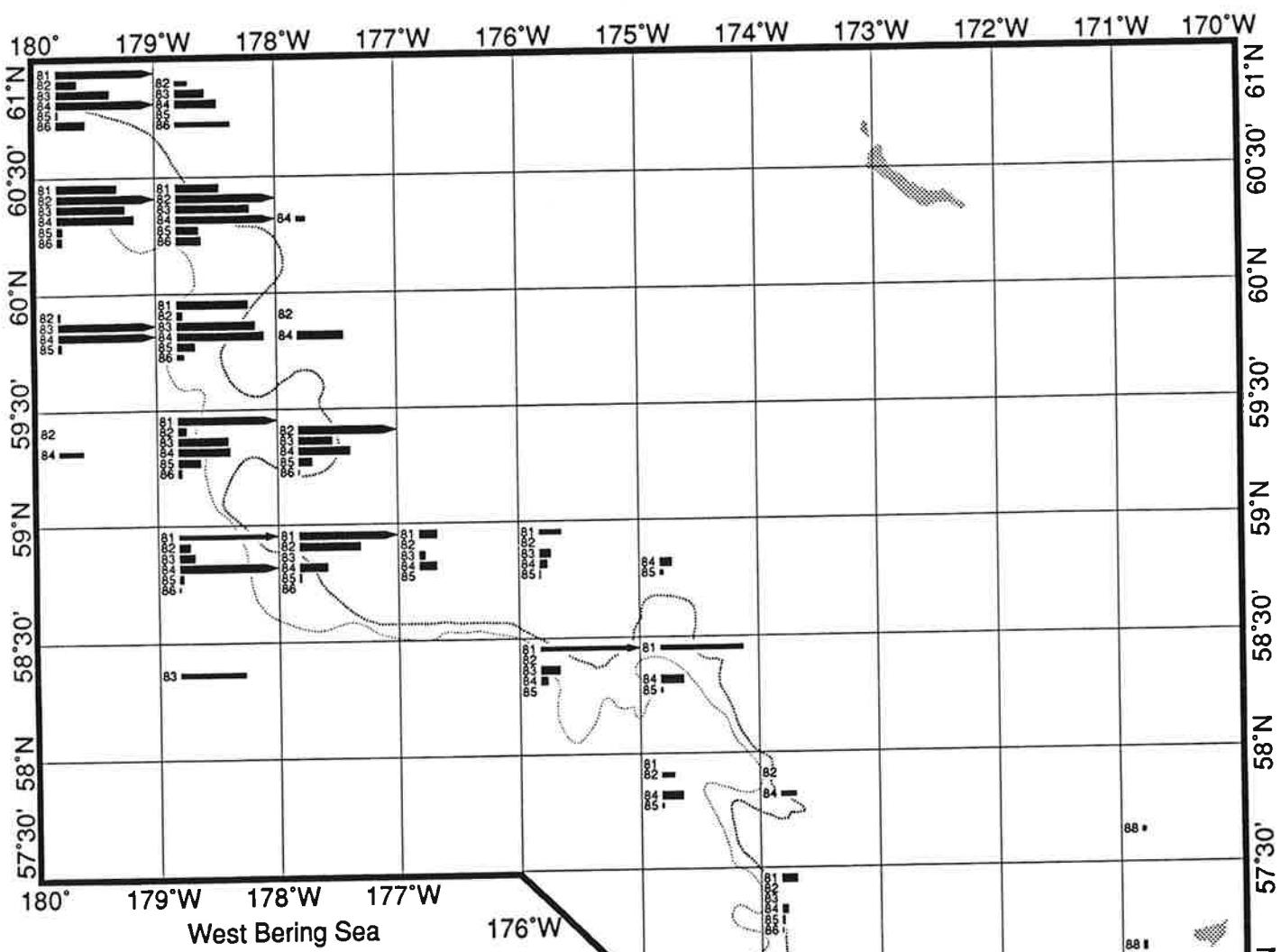
0 5 10 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

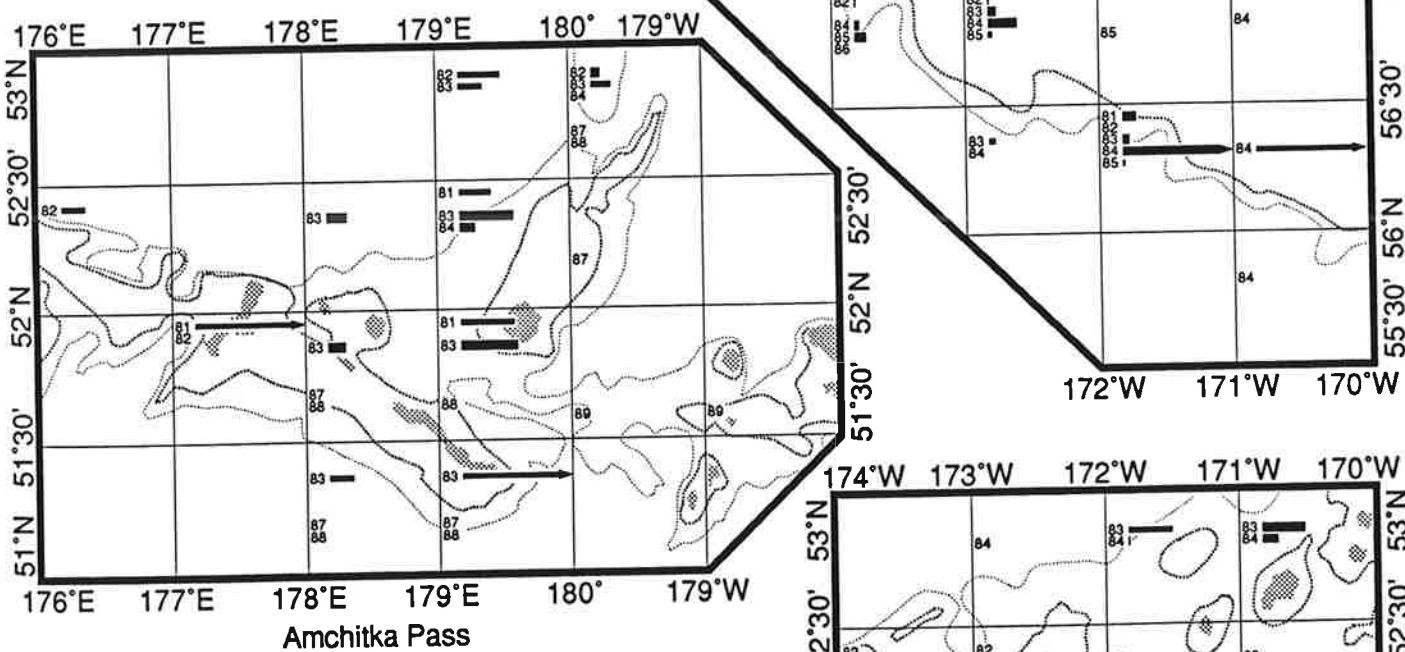


VI-12



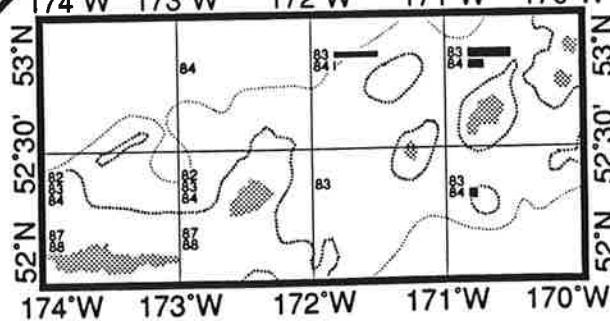
West Bering Sea

03-16-1991 13:14:17



Amchitka Pass

Seguam Pass



June
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

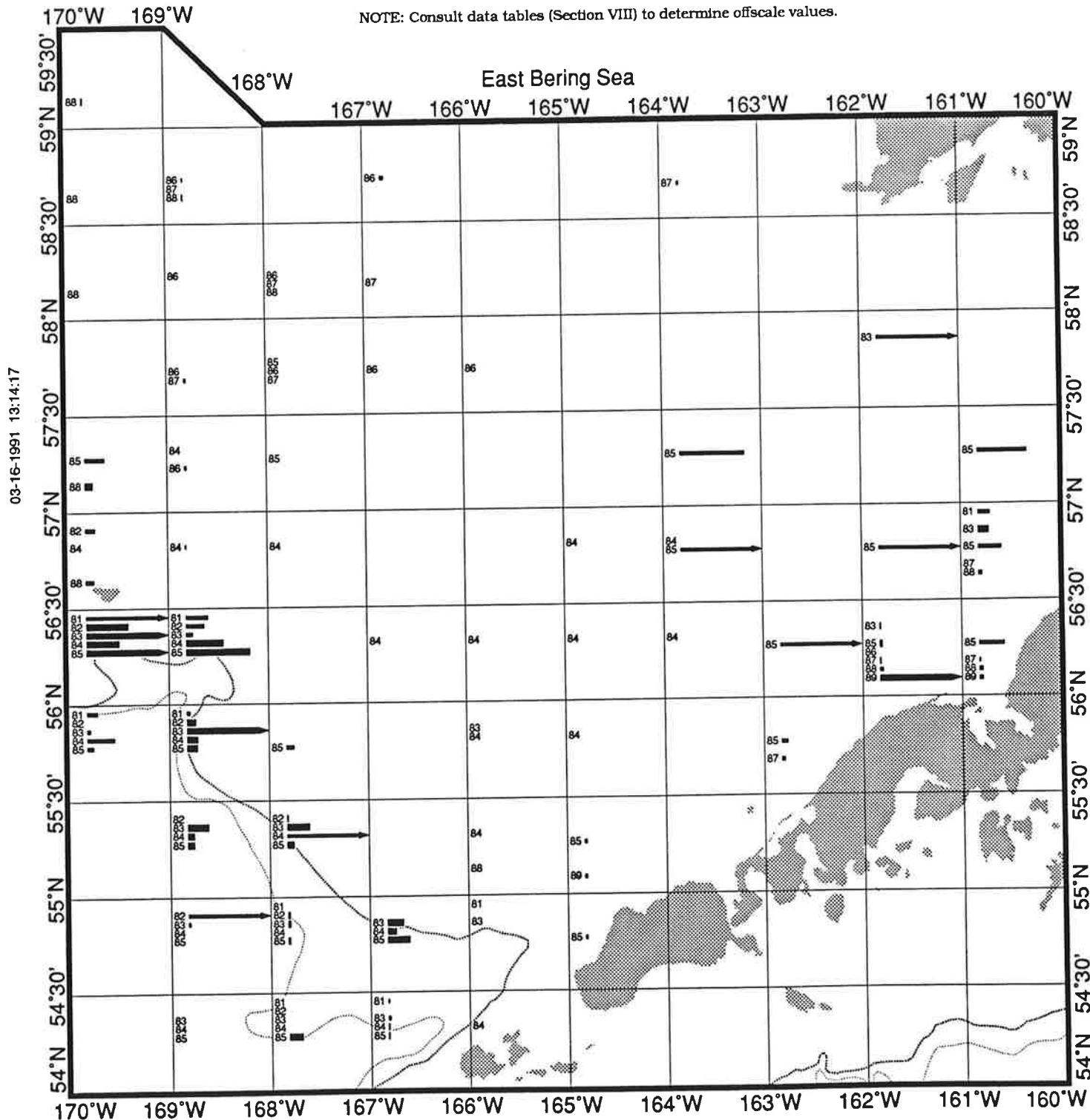
June
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

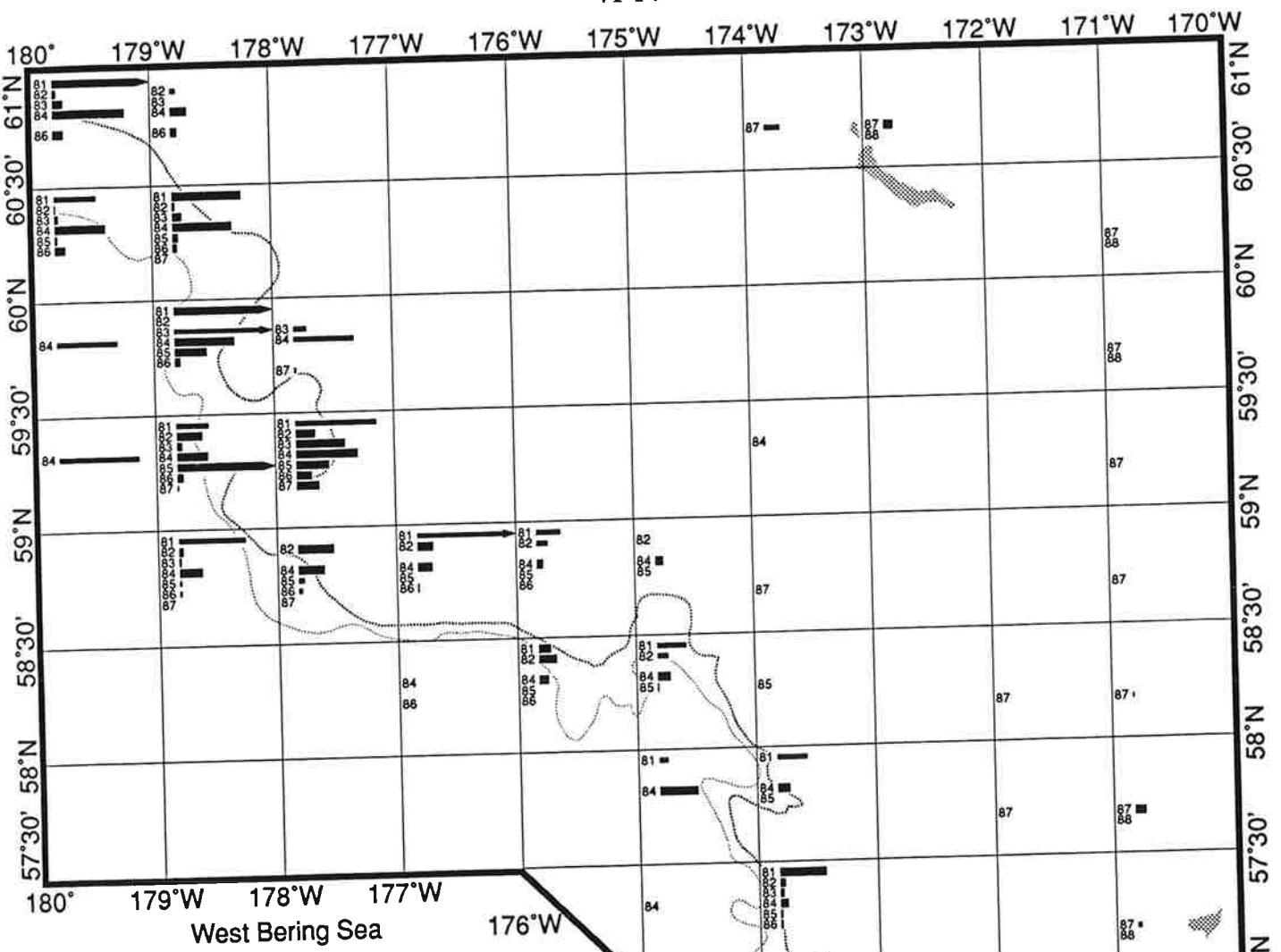
0 5 10 SCALE: Individuals per Metric Ton.

81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

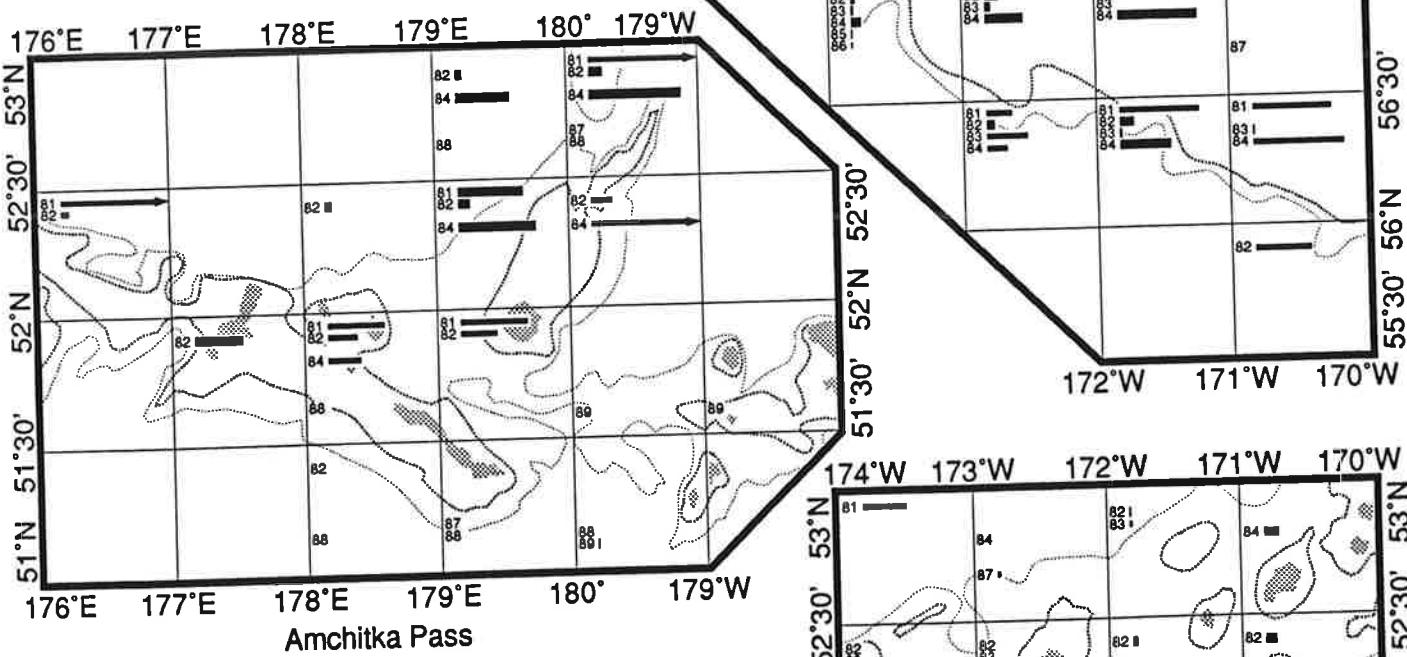
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-14

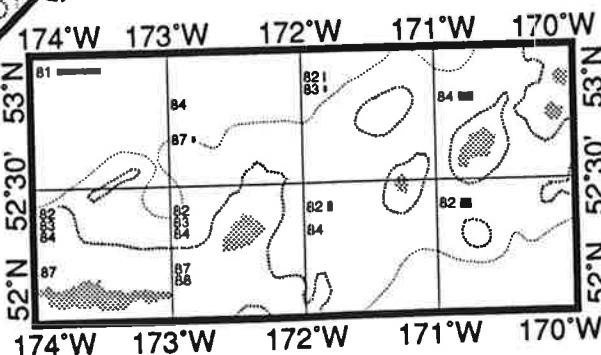


West Bering Sea



Amchitka Pass

Seguam Pass



July
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 13:14:17

July

MISCELLANEOUS SPECIES

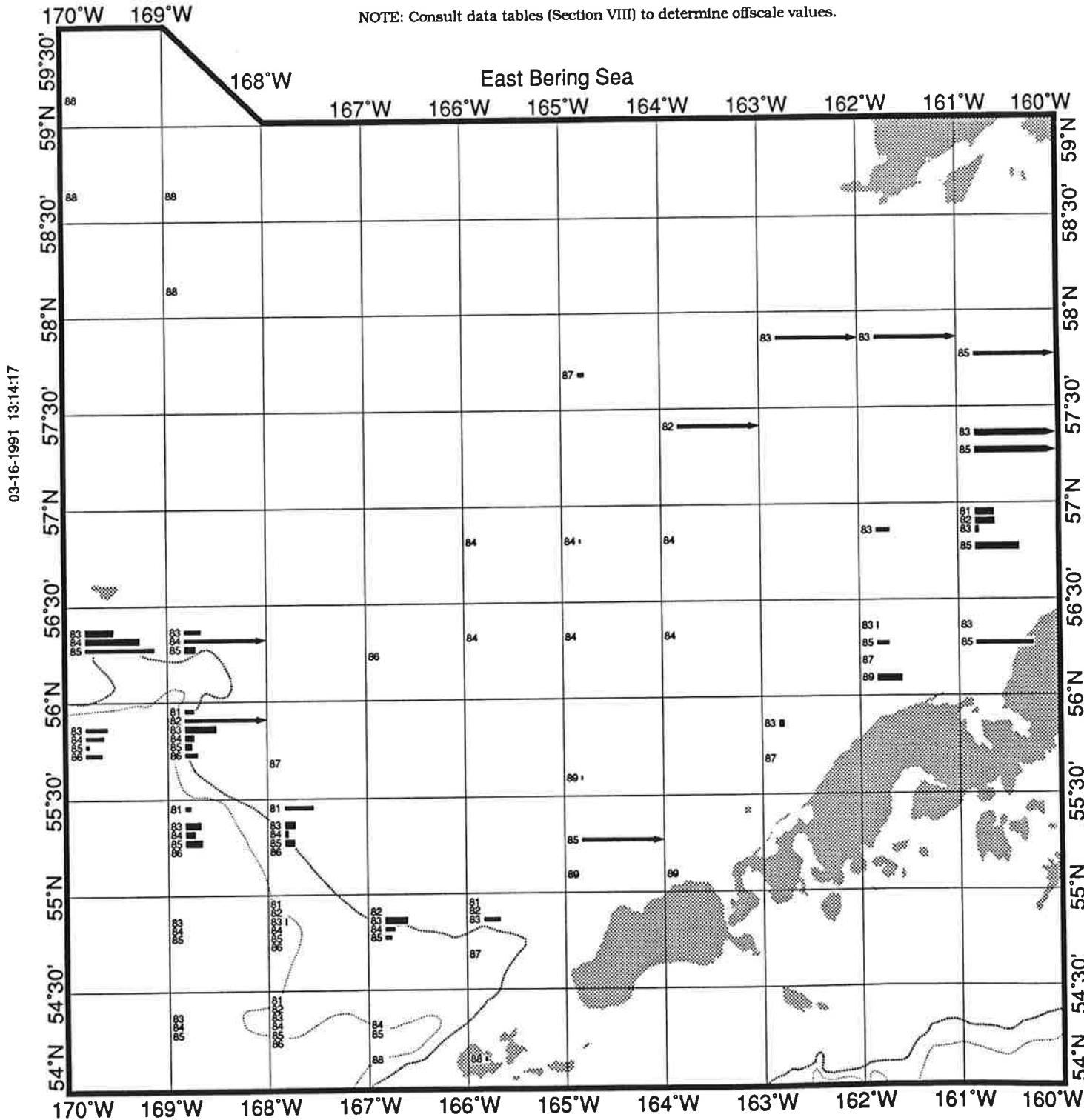
King Crab Bycatch Rate

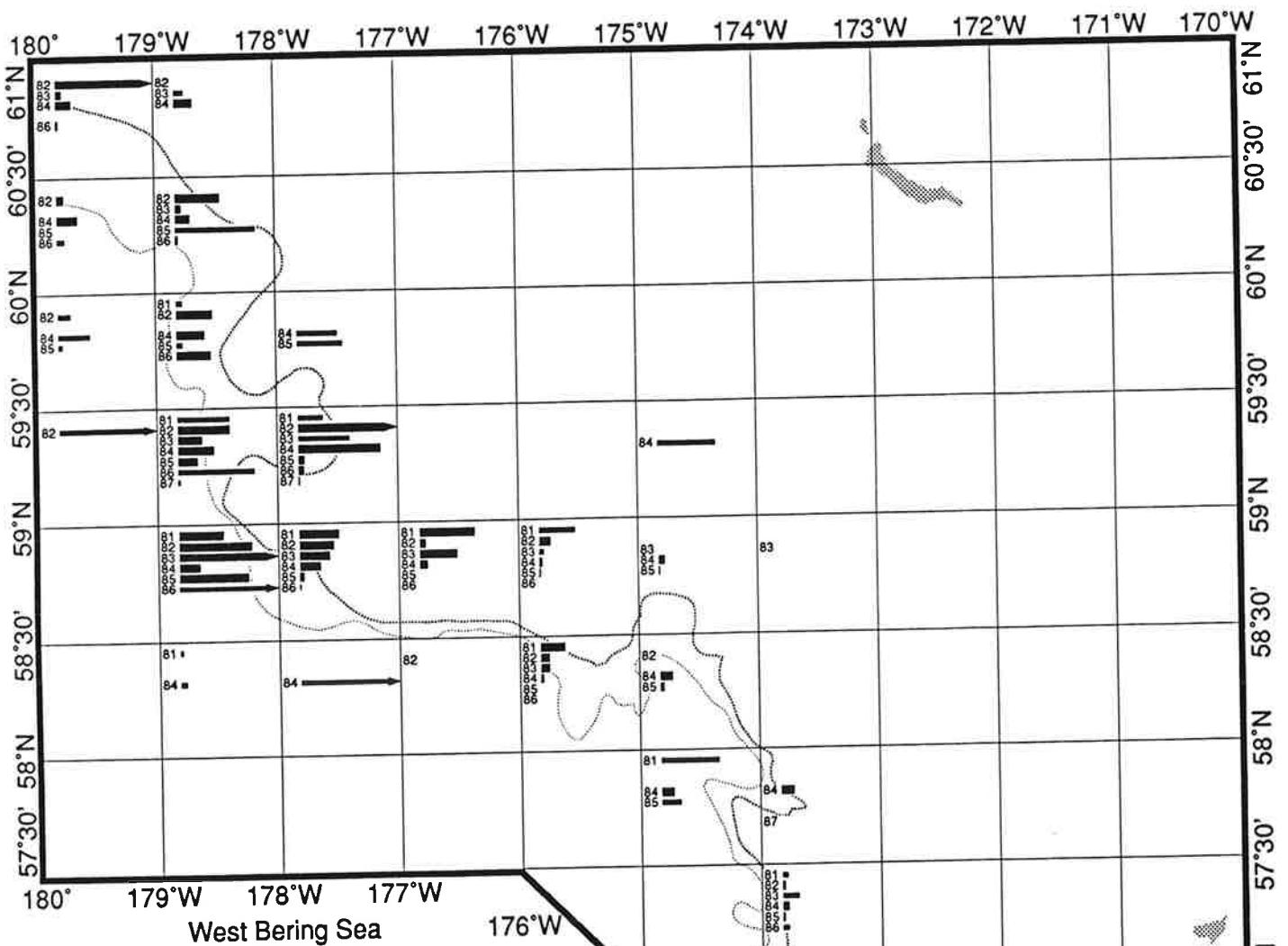
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 10 SCALE: Individuals per Metric Ton.

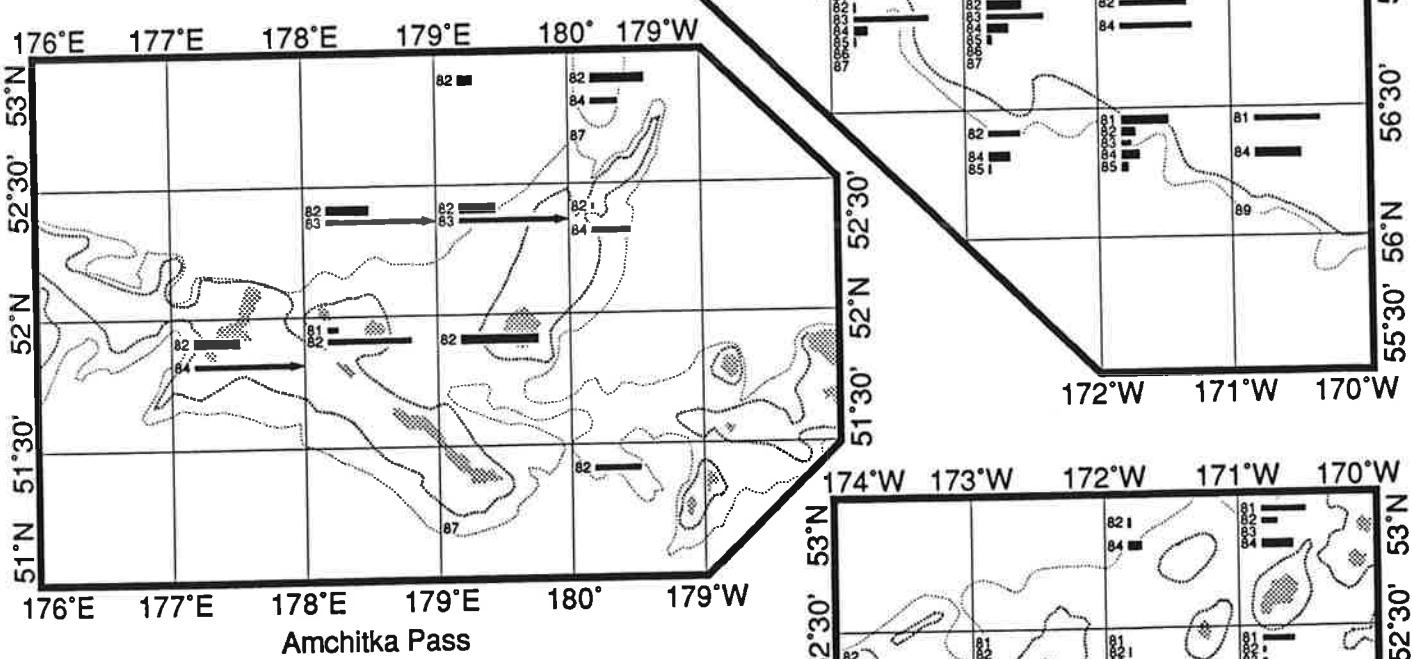
81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.



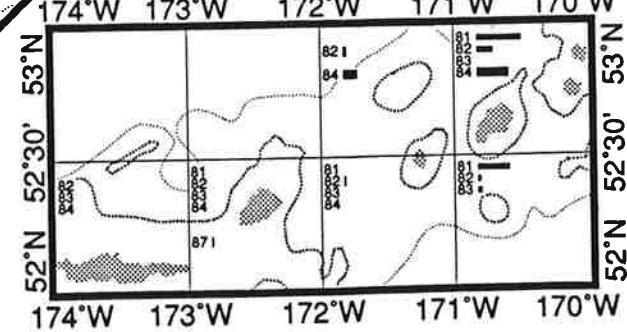


03-16-1991 13:14:17



August
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

Seguam Pass



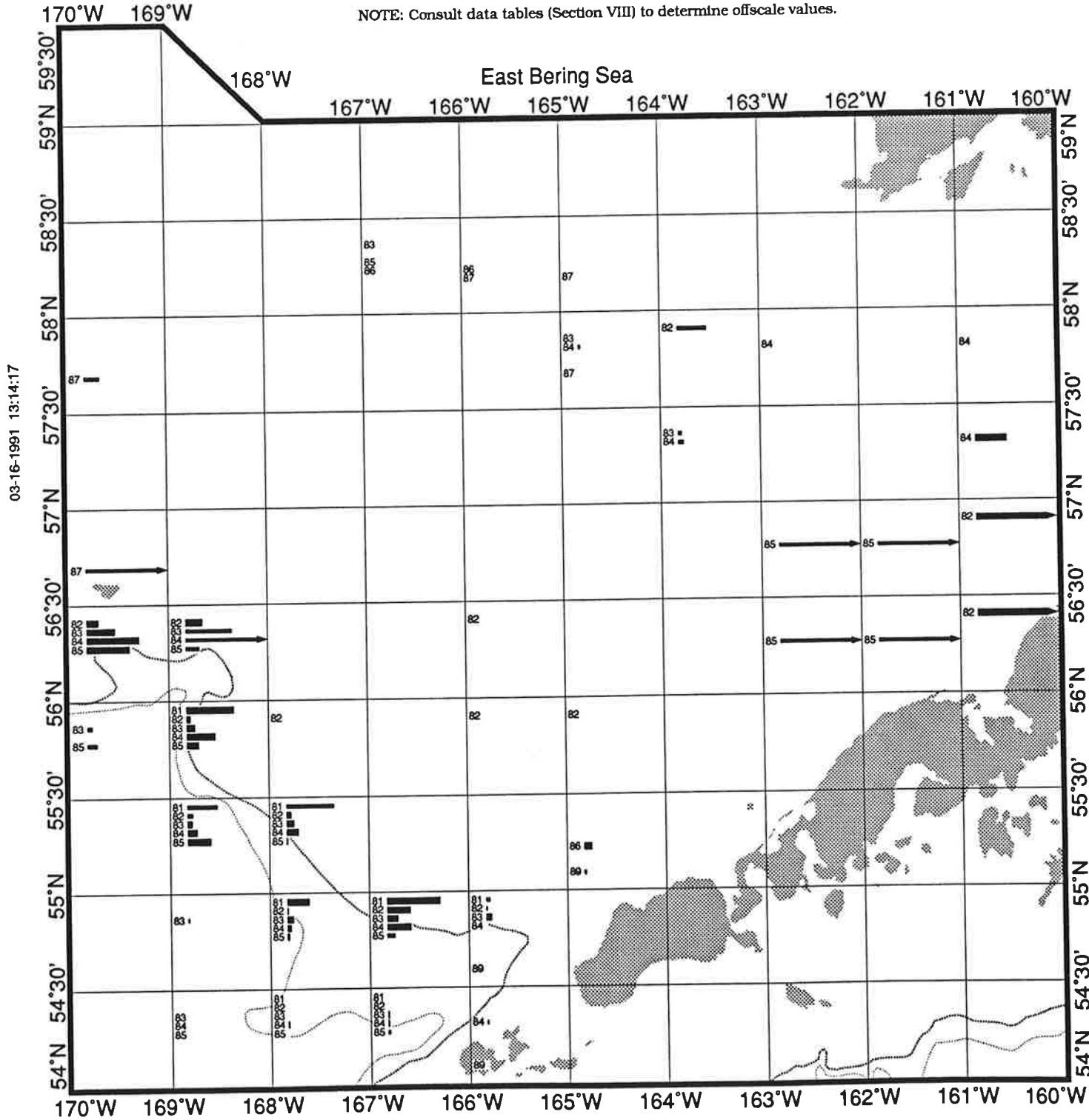
August
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

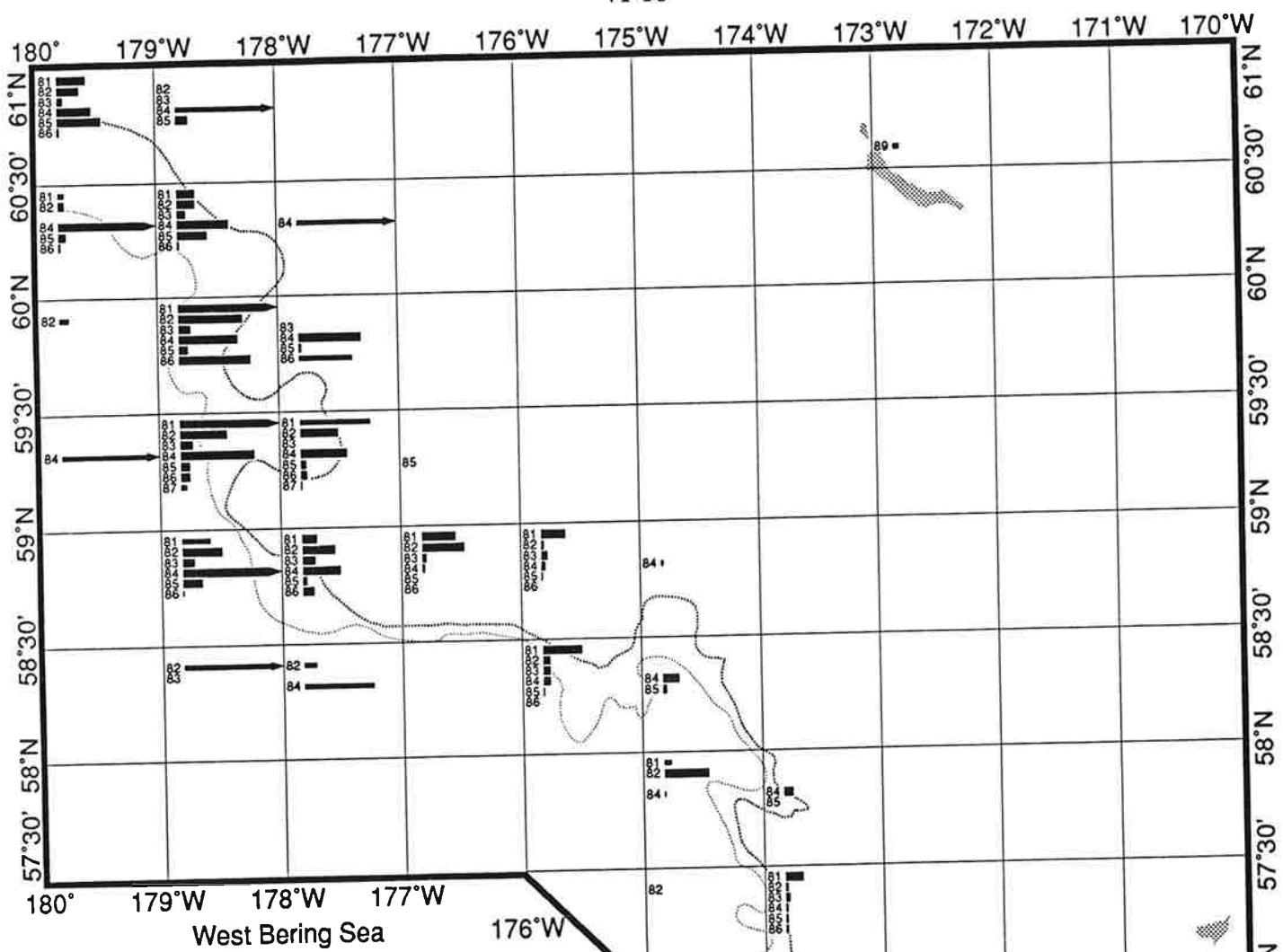
0 5 10 SCALE: Individuals per Metric Ton.

- 81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 — 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

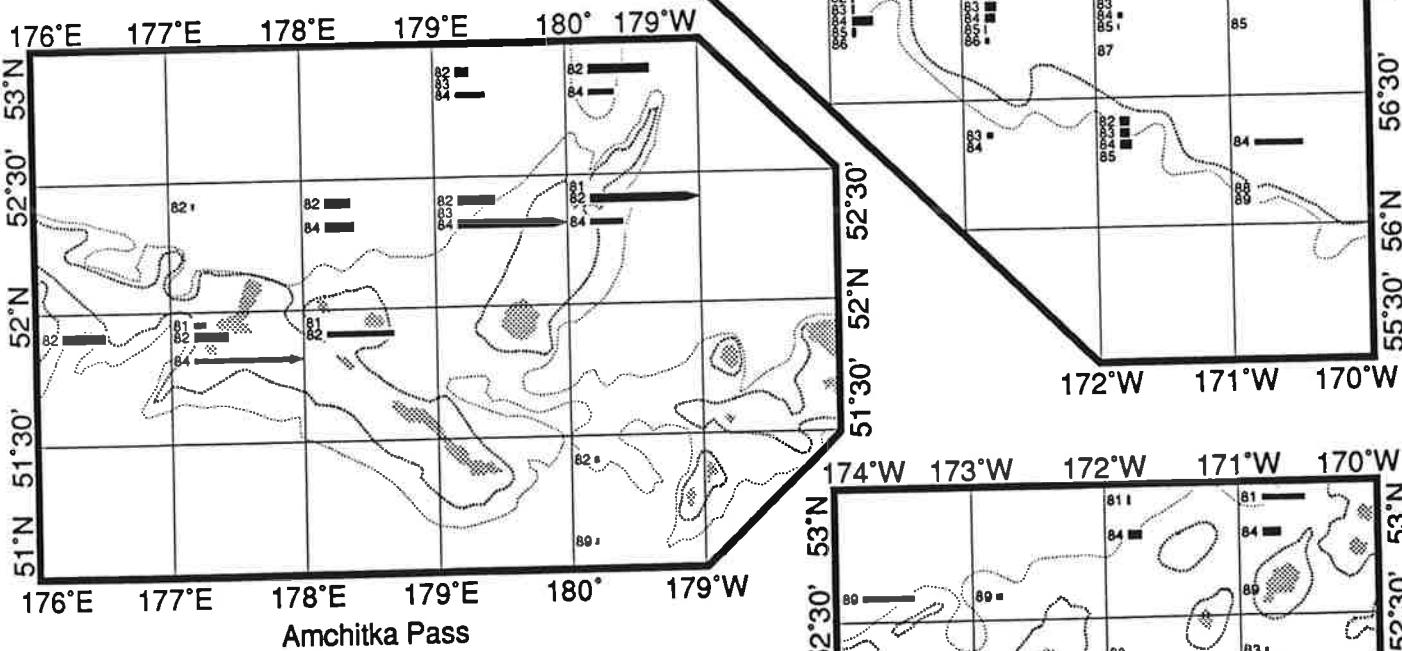


VI-18



West Bering Sea

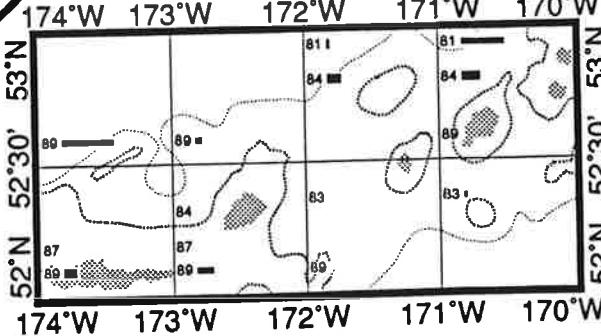
03-16-1991 13:14:17



Amchitka Pass

**September MISCELLANEOUS SPECIES
King Crab Bycatch Rate**

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

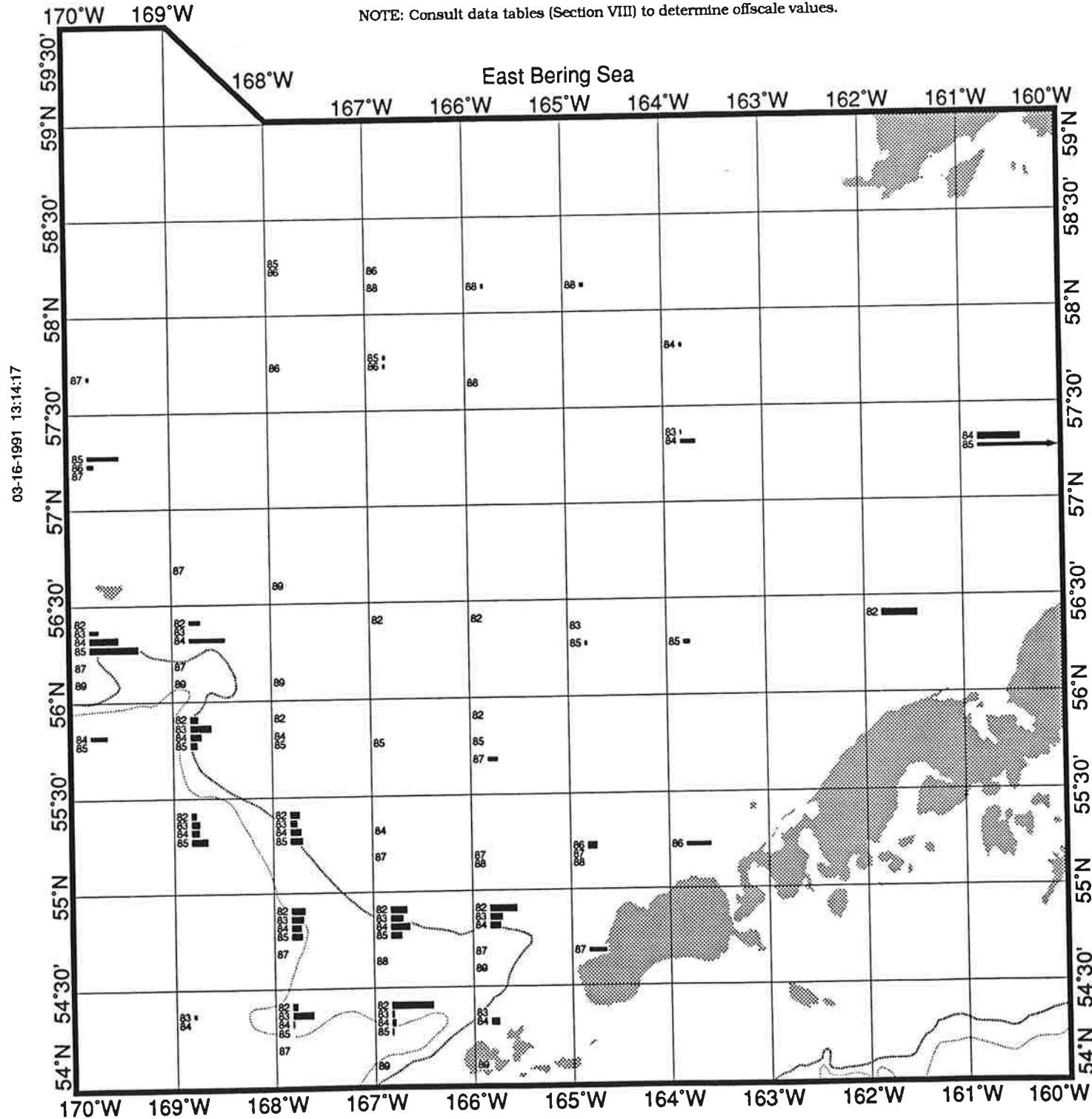
September
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

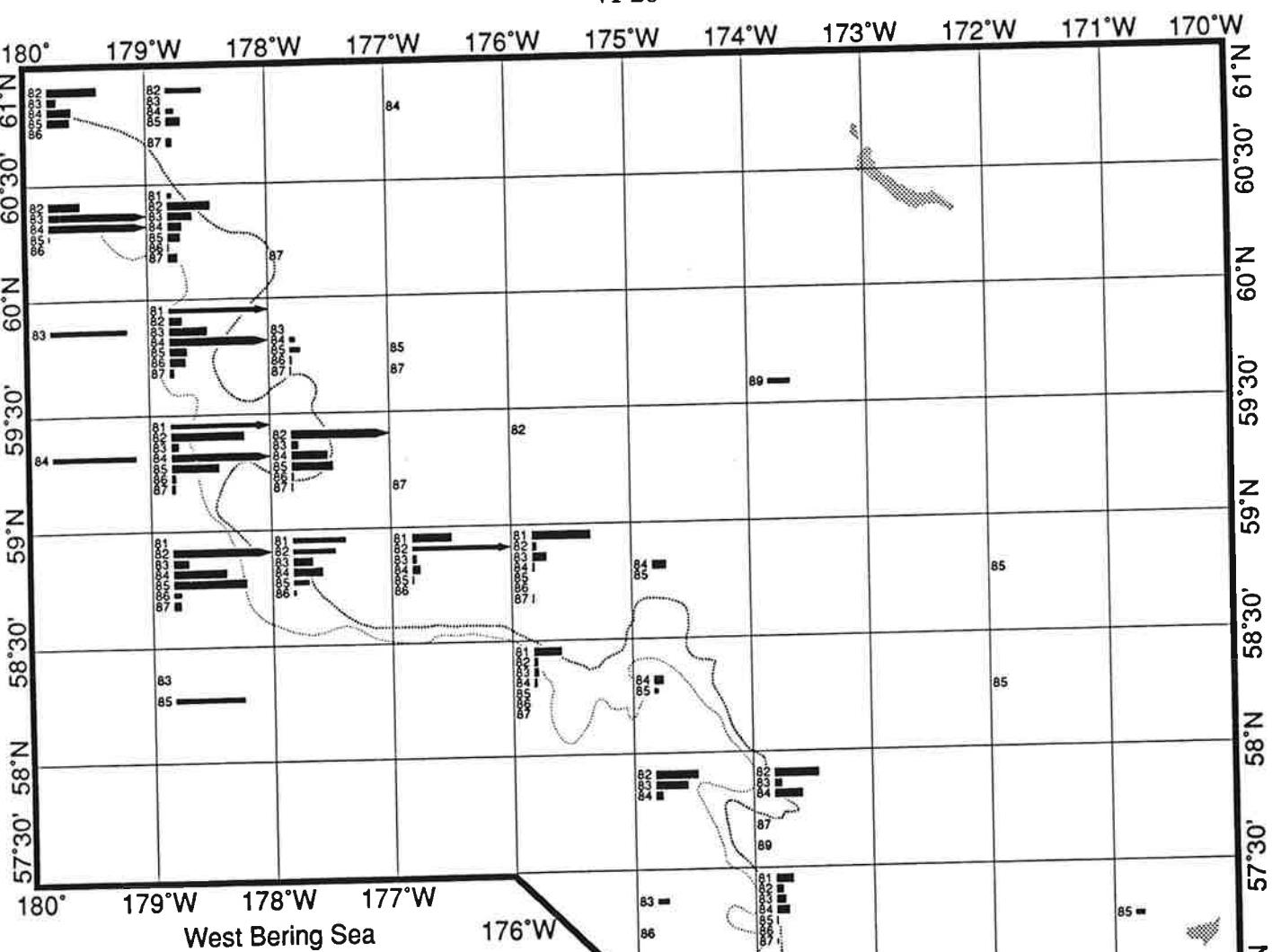
0 5 10 SCALE: Individuals per Metric Ton.

- 81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 — 1987 Bycatch Rate Zero.

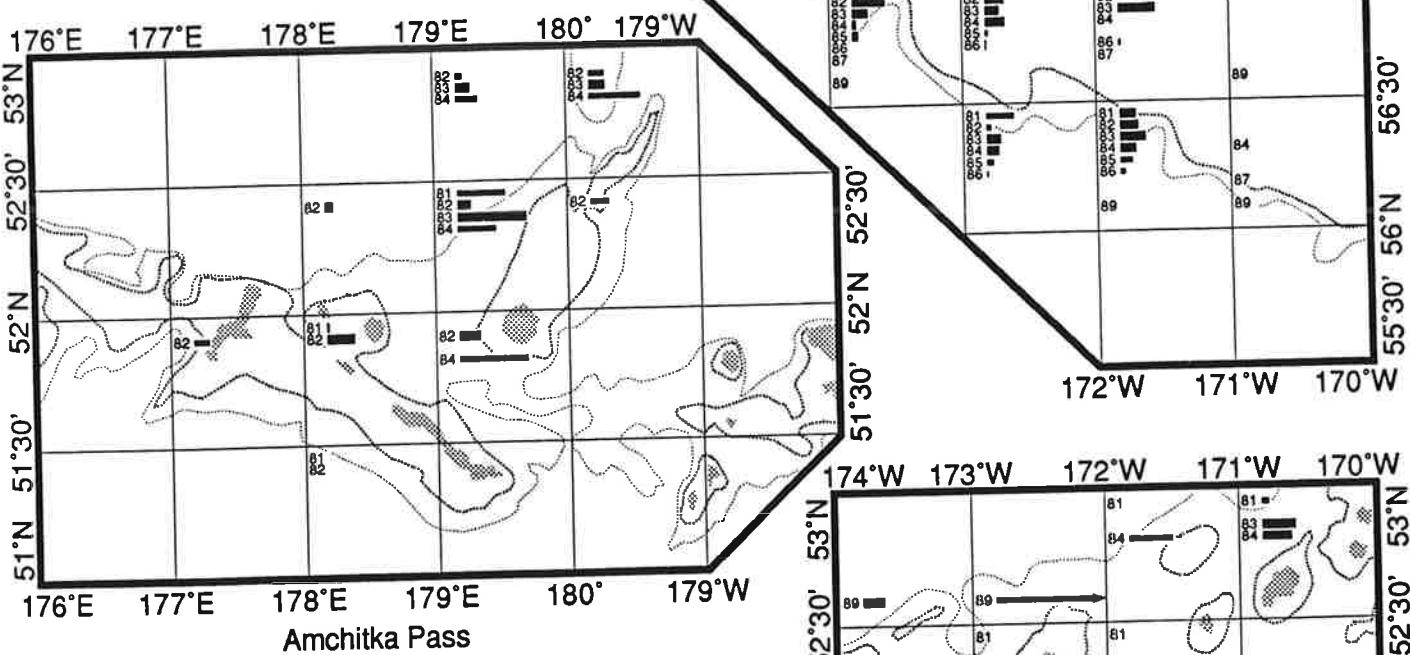
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-20



West Bering Sea



Amchitka Pass

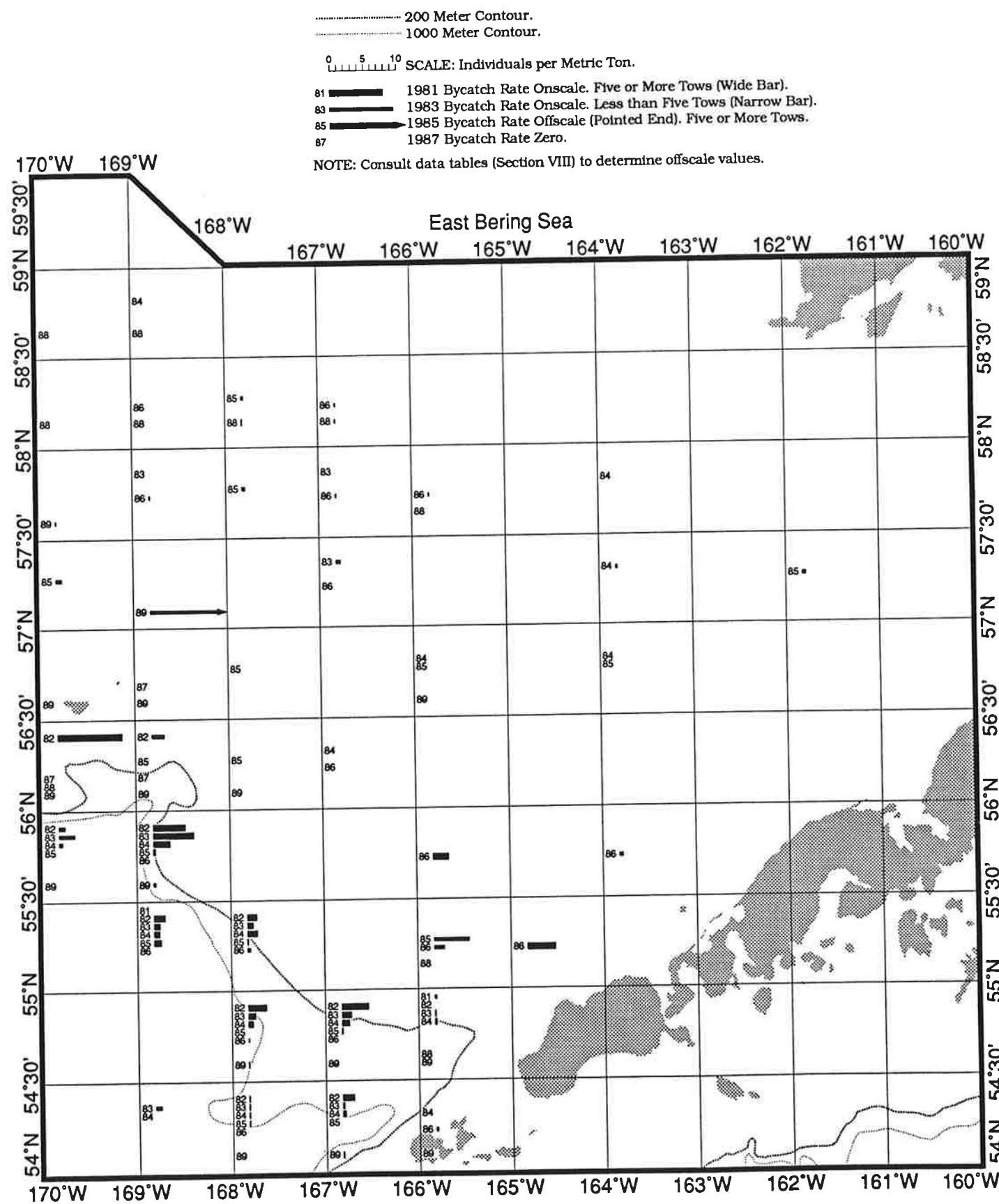
Seguam Pass

October
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

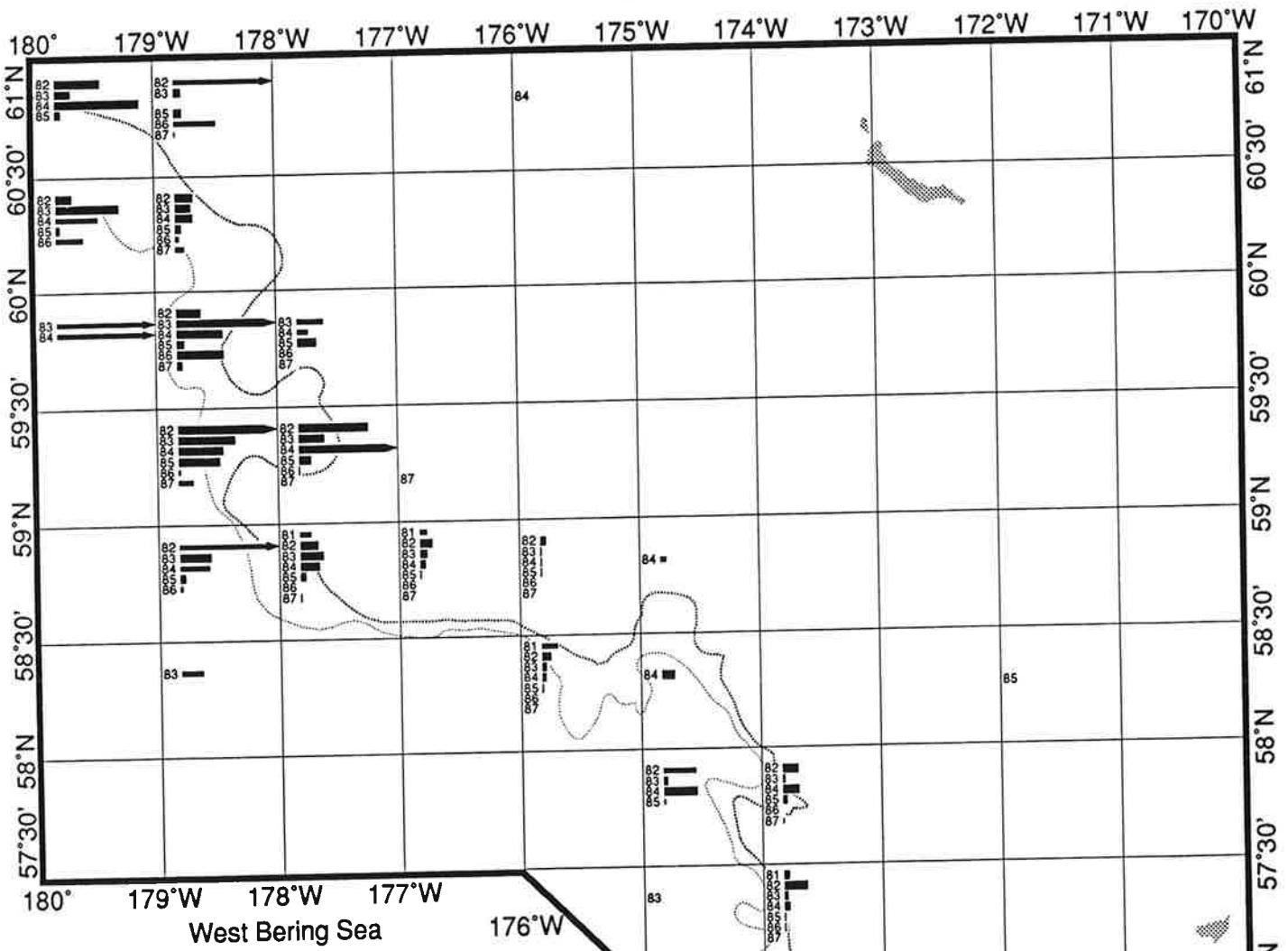
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 13:14:17

October
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

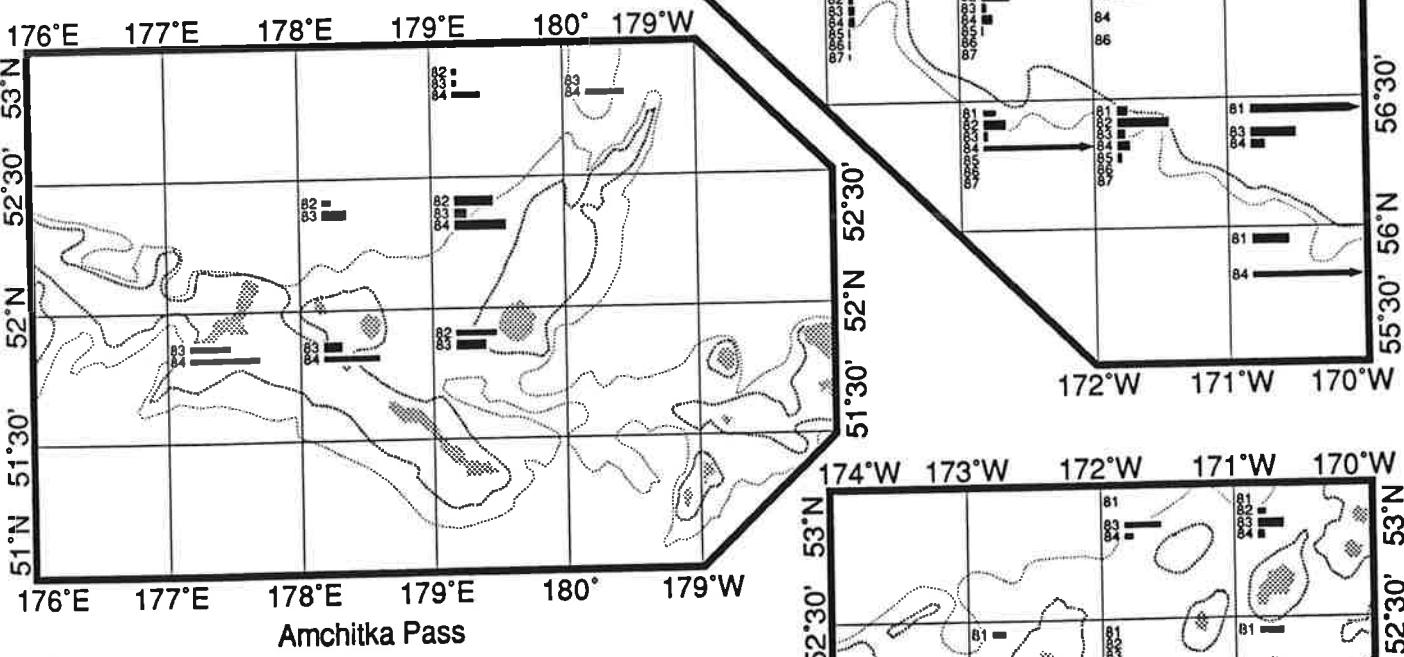


VI-22



West Bering Sea

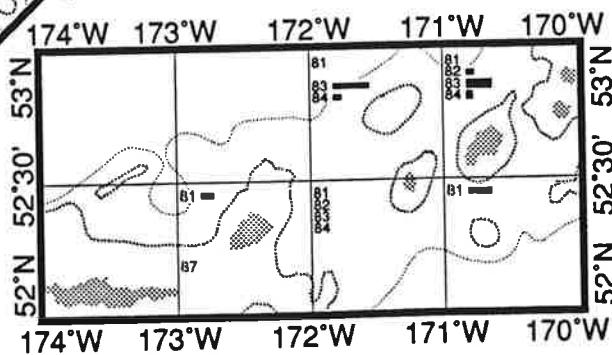
03-16-1991 13:14:17



Amchitka Pass

**November
MISCELLANEOUS SPECIES
King Crab Bycatch Rate**

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

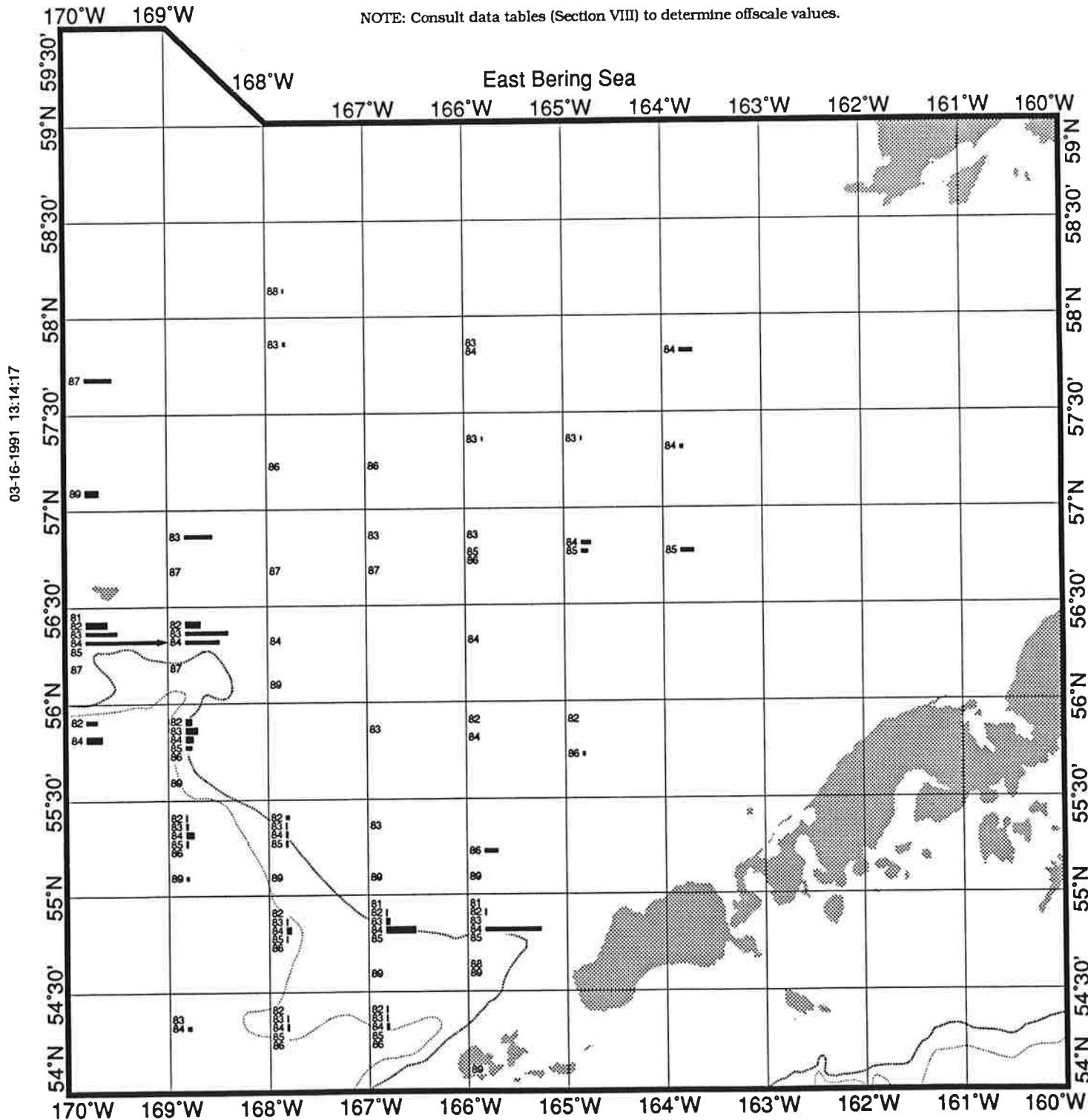
November
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

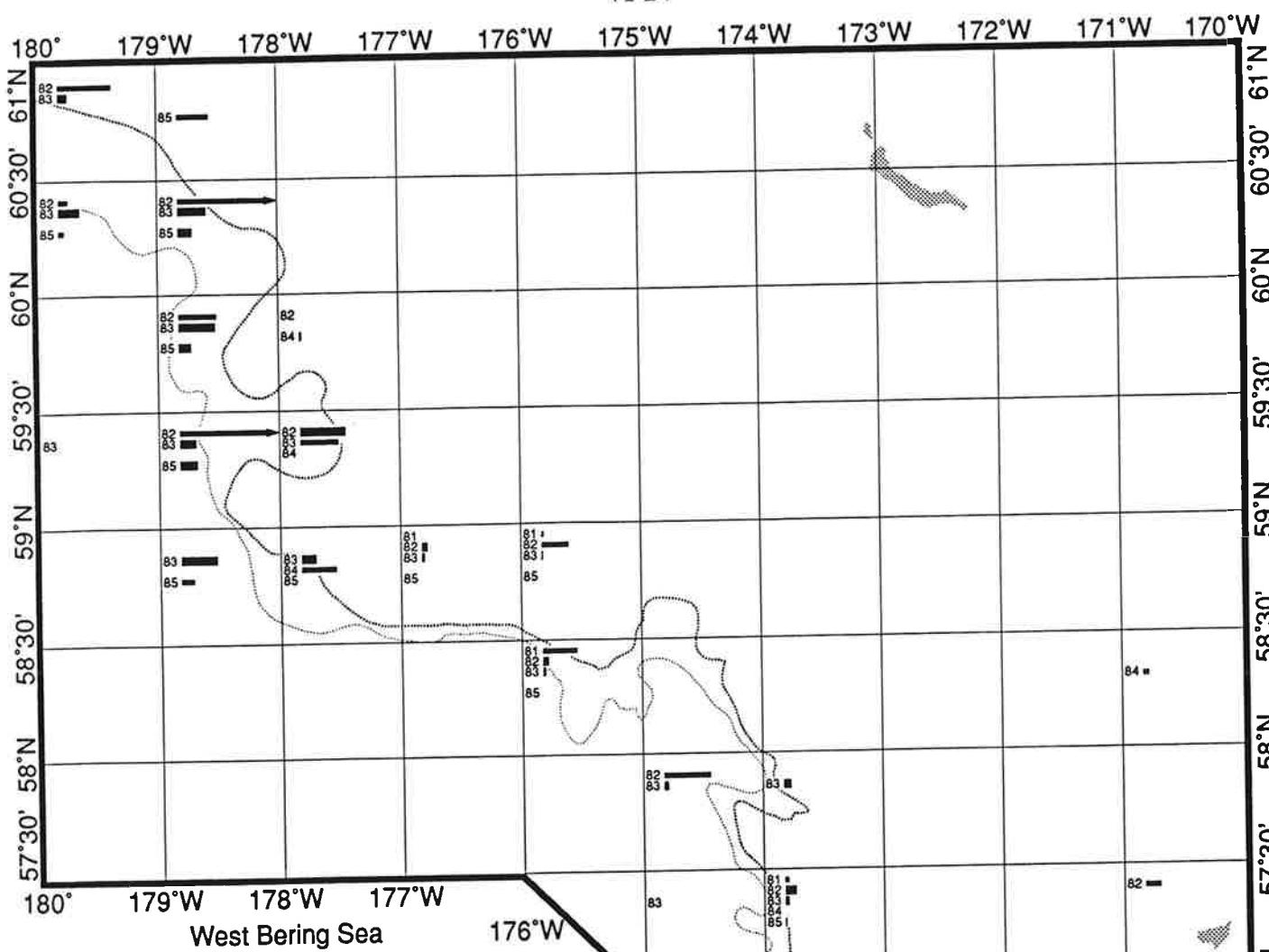
0 5 10 SCALE: Individuals per Metric Ton.

- 81 — 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 — 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 — 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 — 1987 Bycatch Rate Zero.

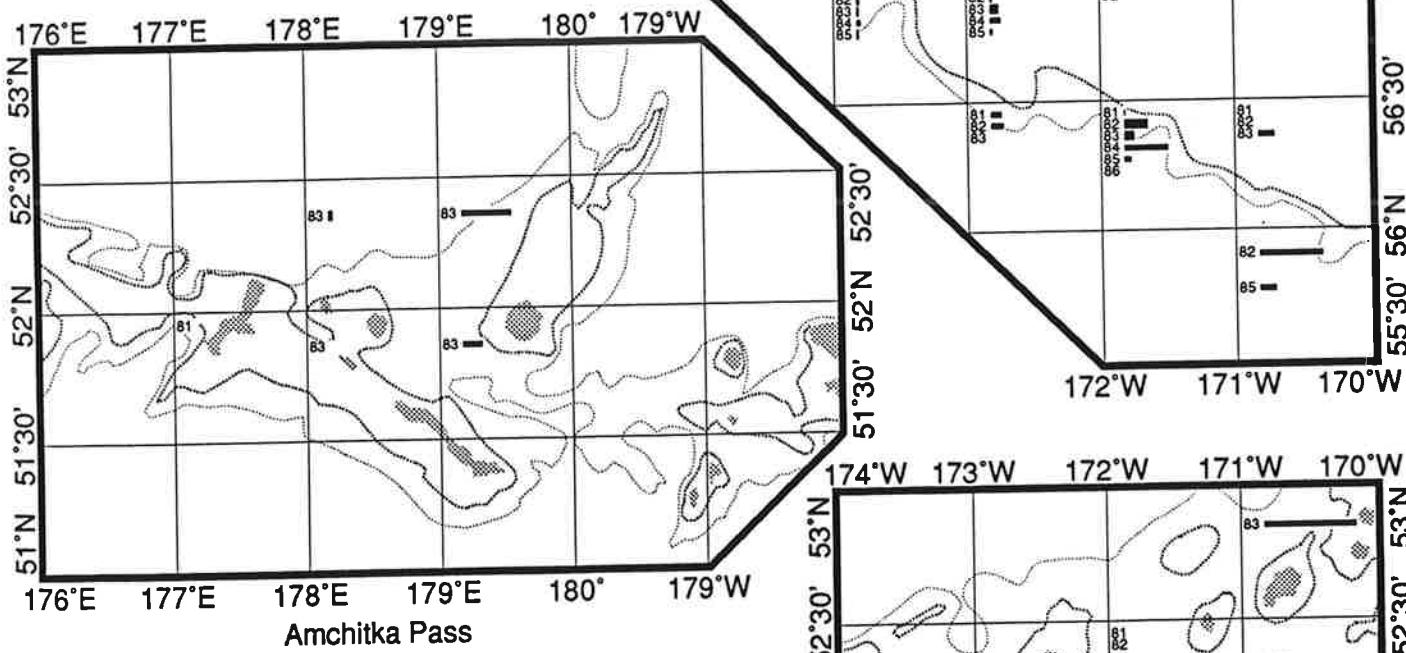
NOTE: Consult data tables (Section VIII) to determine offscale values.



VI-24



03-16-1991 13:14:17



**December MISCELLANEOUS SPECIES
King Crab Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

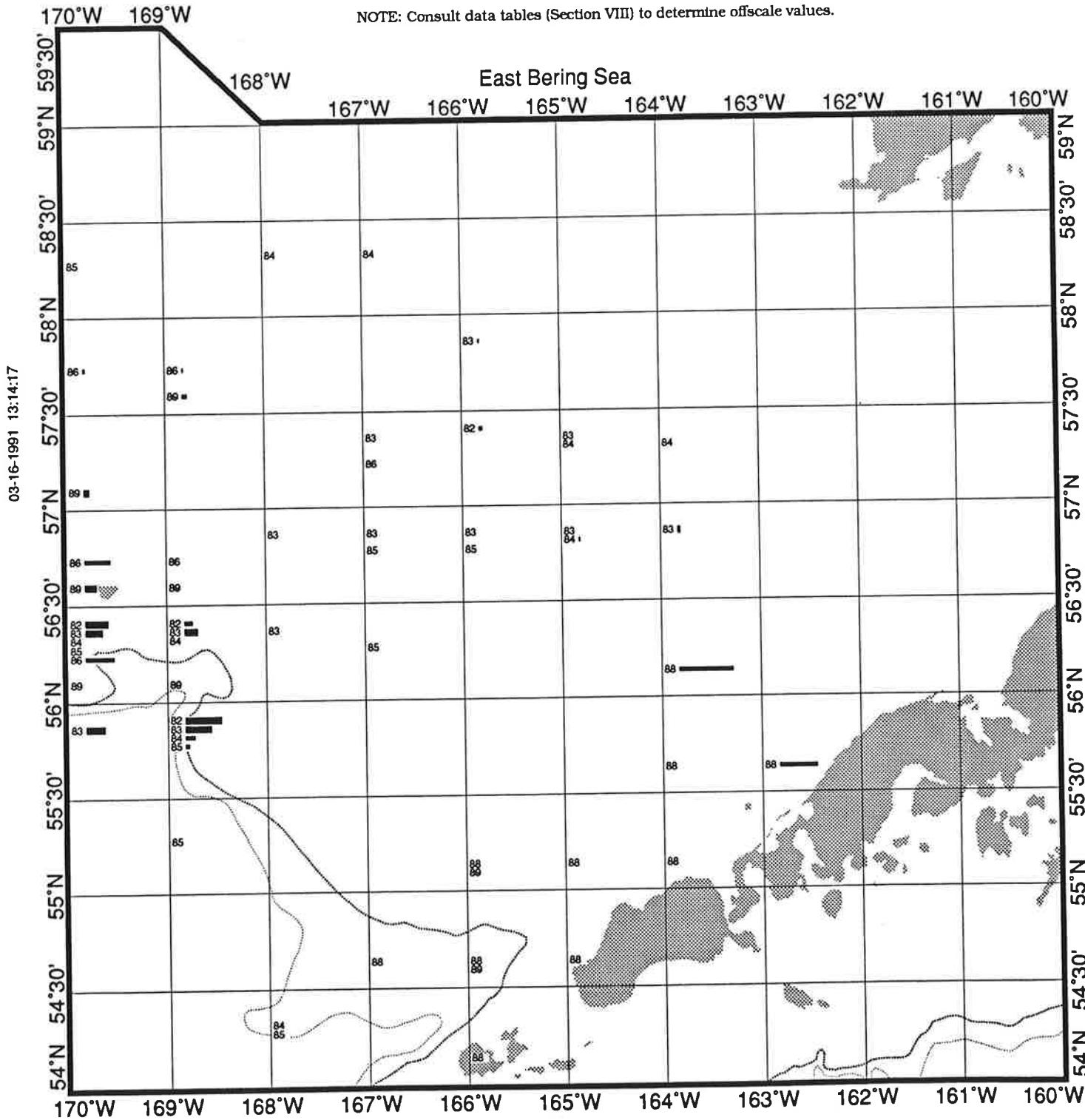
December
MISCELLANEOUS SPECIES
King Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

0 5 10 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

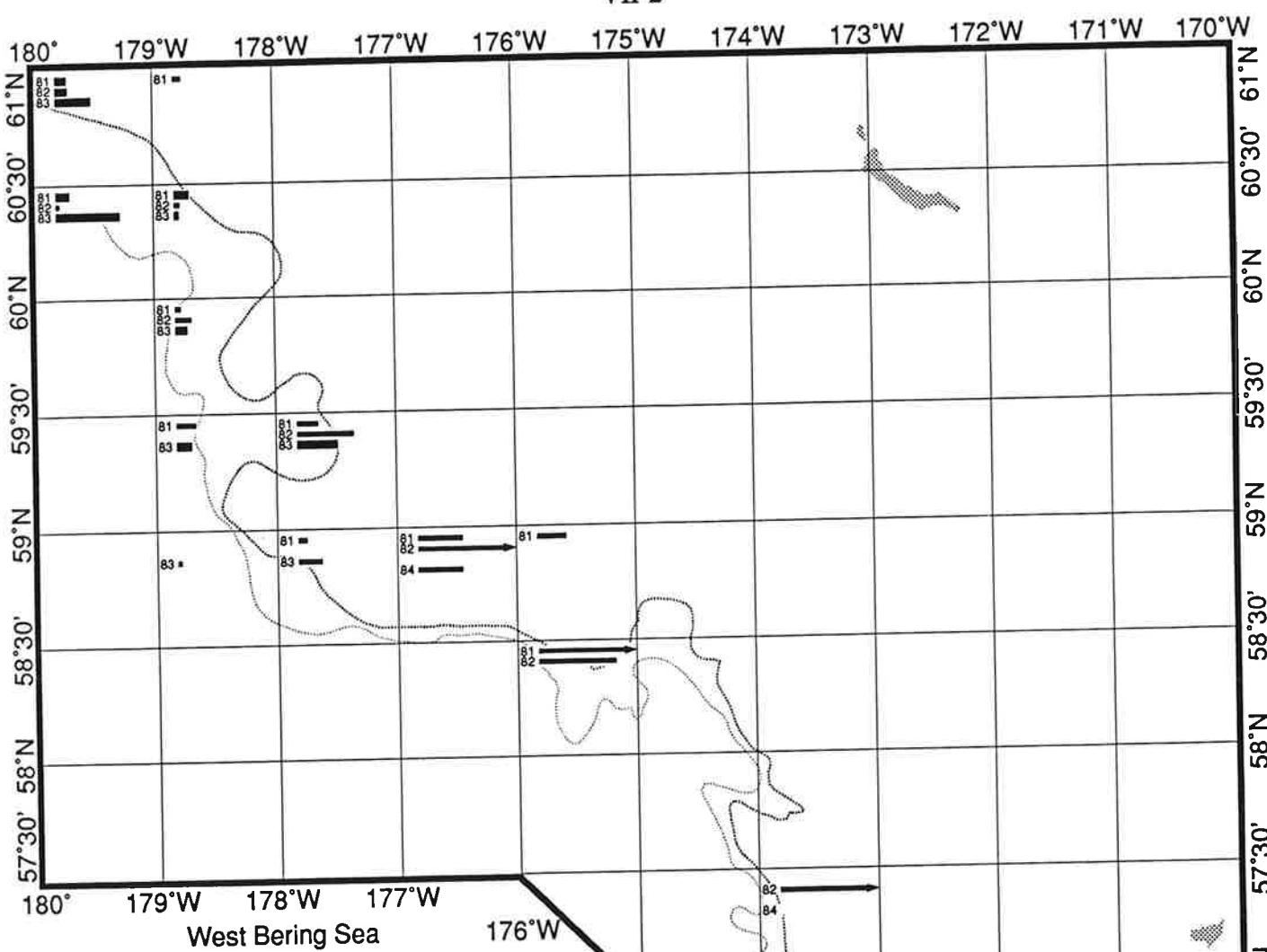
NOTE: Consult data tables (Section VIII) to determine offscale values.



SECTION VII

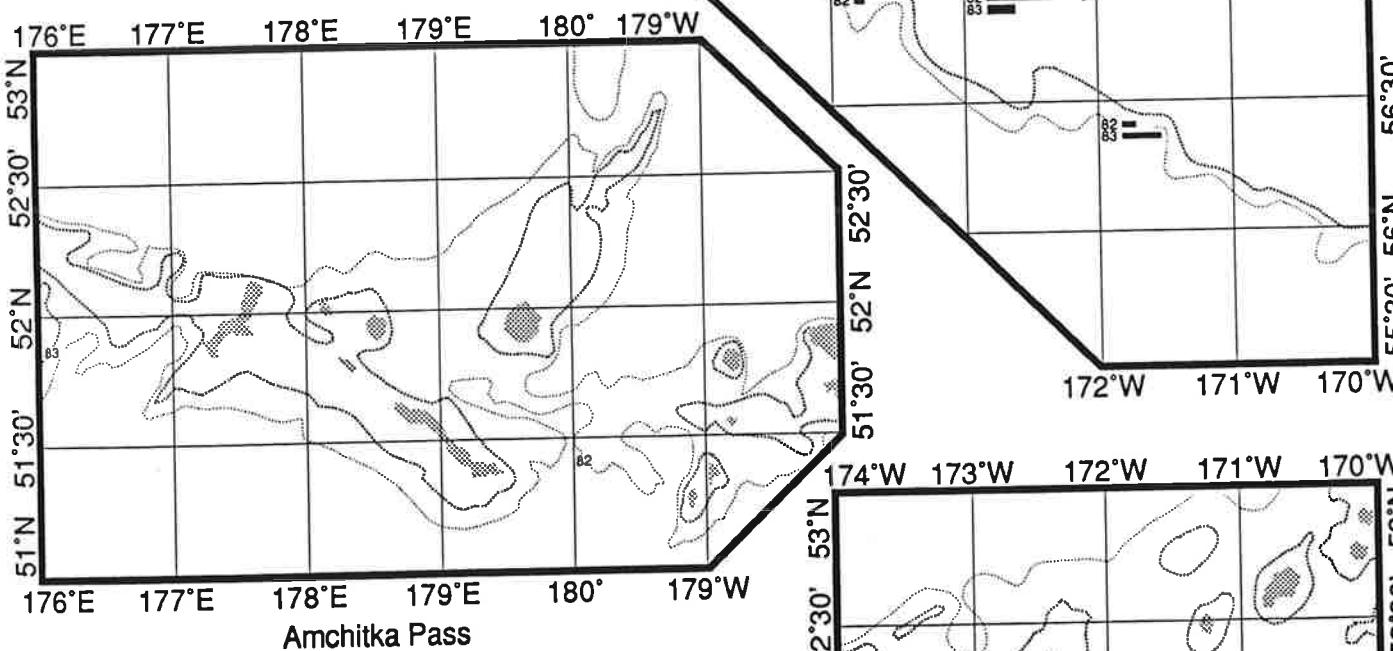
TANNER CRAB BYCATCH RATE CHARTS

VII-2



West Bering Sea

03-16-1991 13:35:03



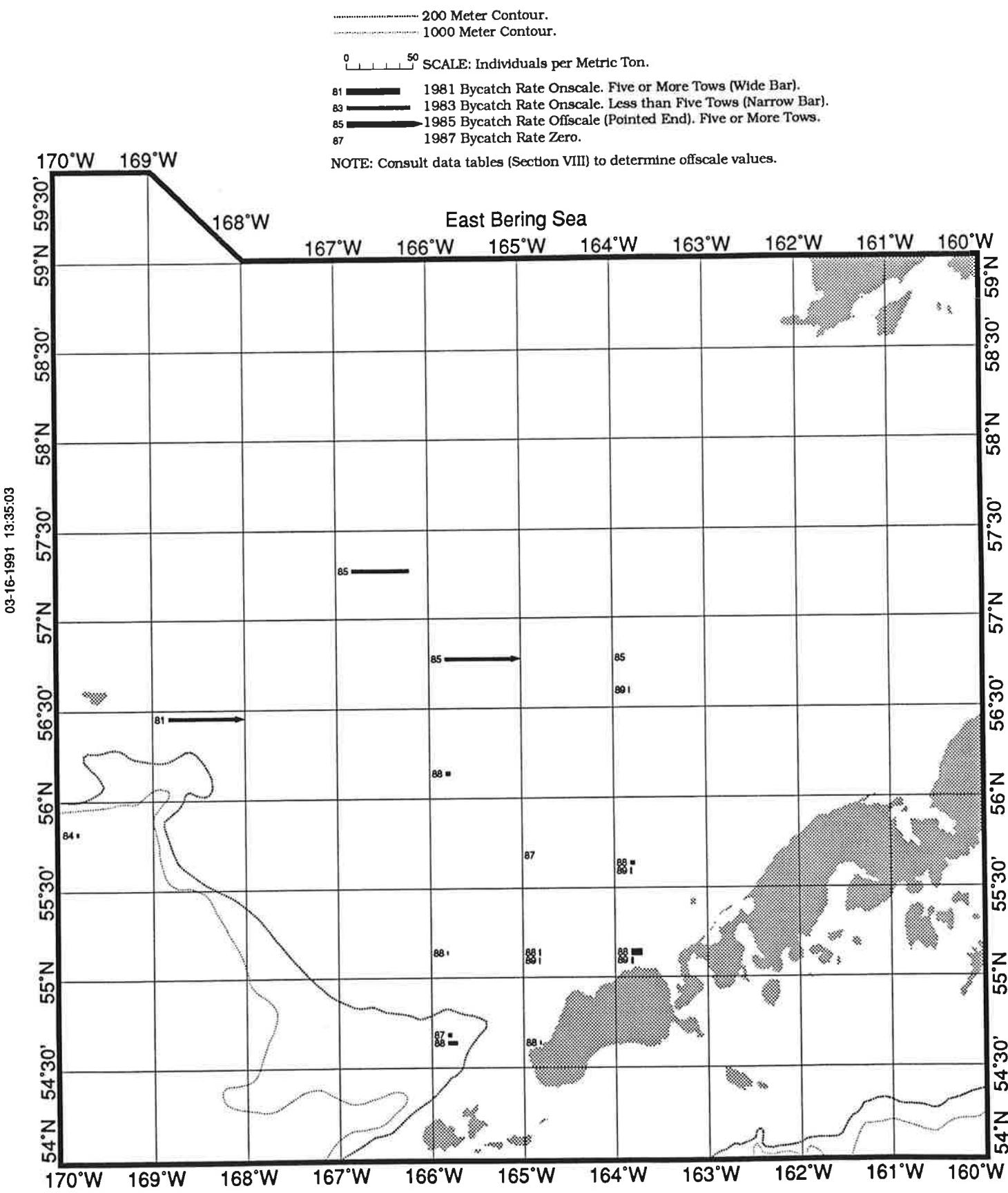
Amchitka Pass

Seguam Pass

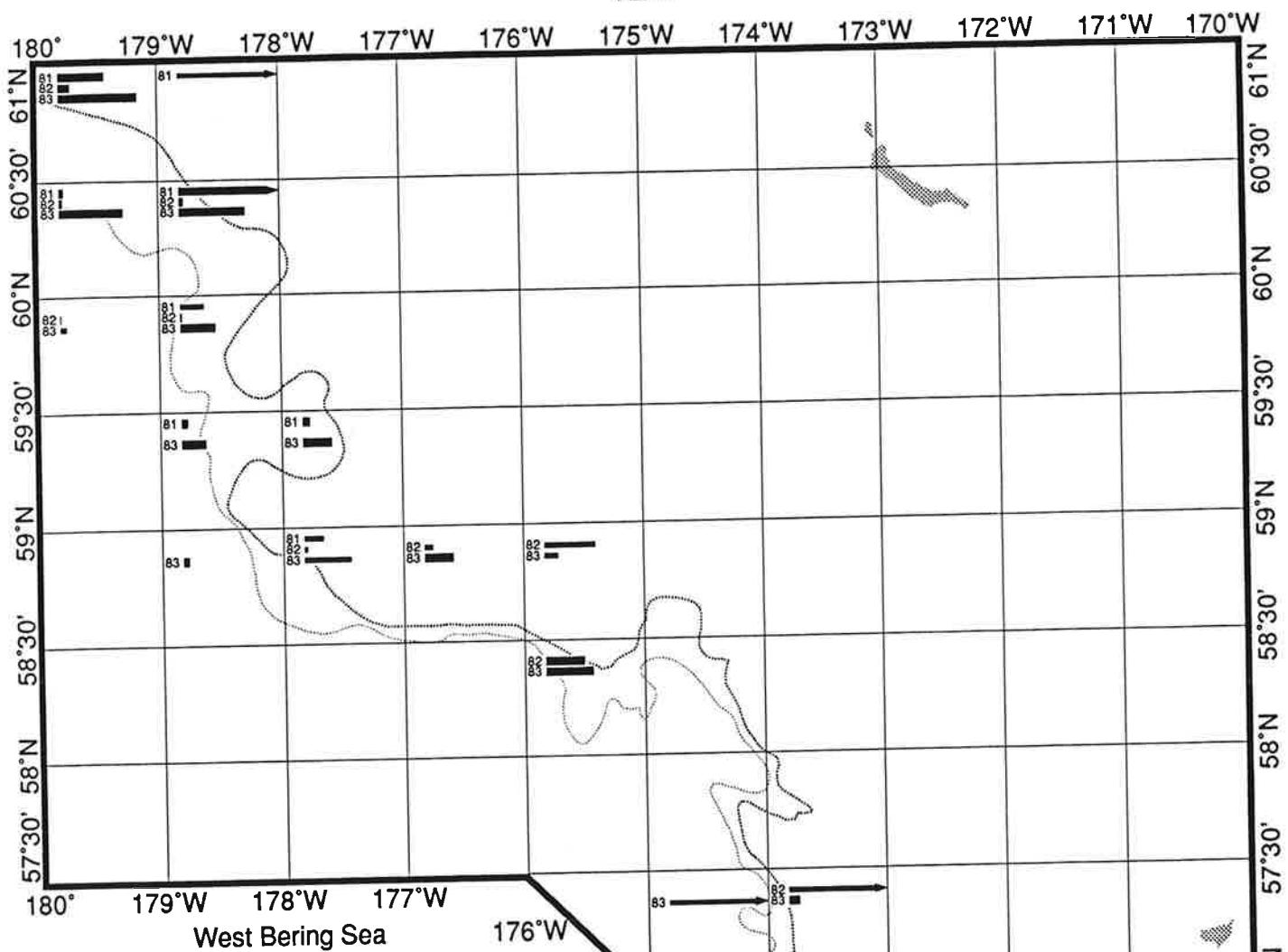
January
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

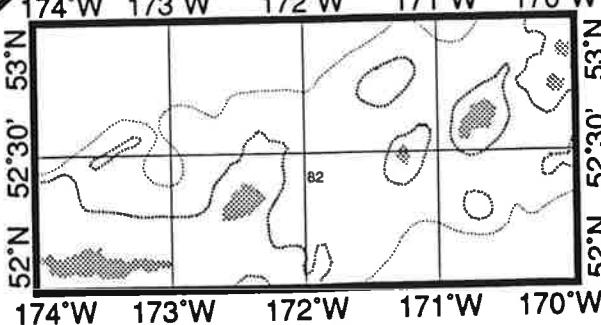
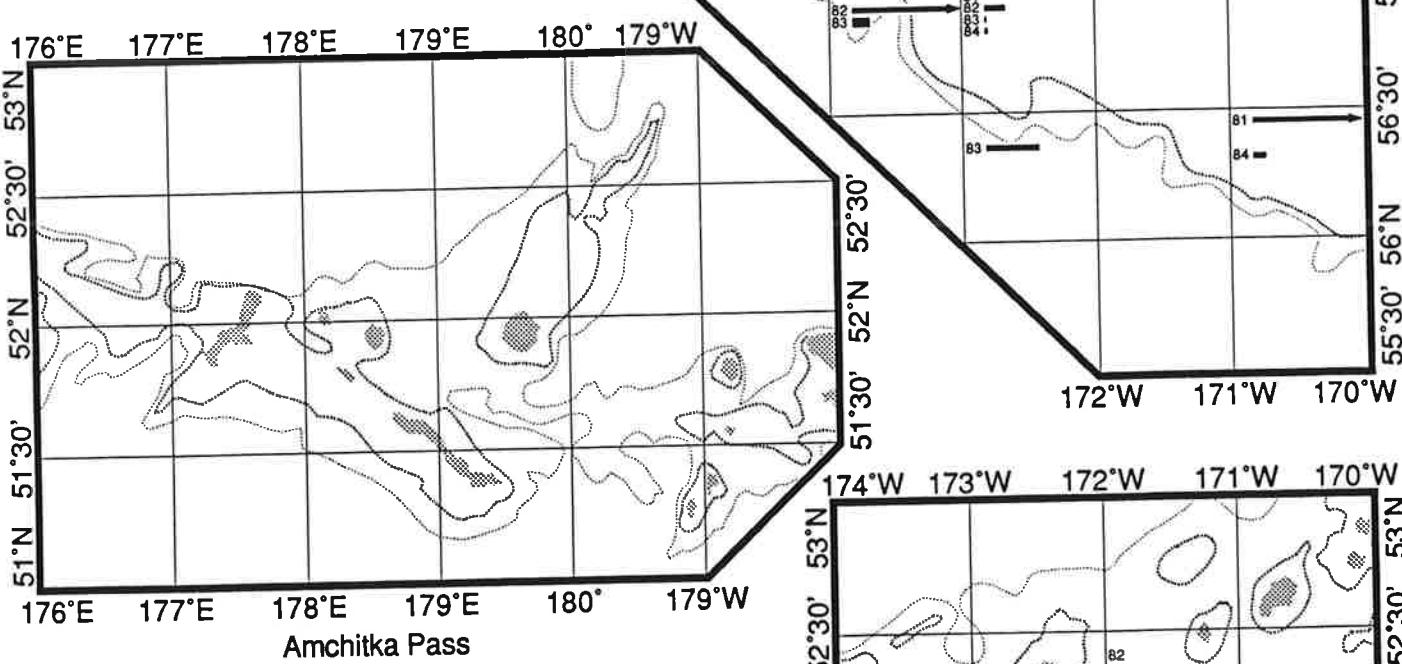
January MISCELLANEOUS SPECIES Tanner Crab Bycatch Rate



VII-4



03-16-1991 13:35:03



**February
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate**

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

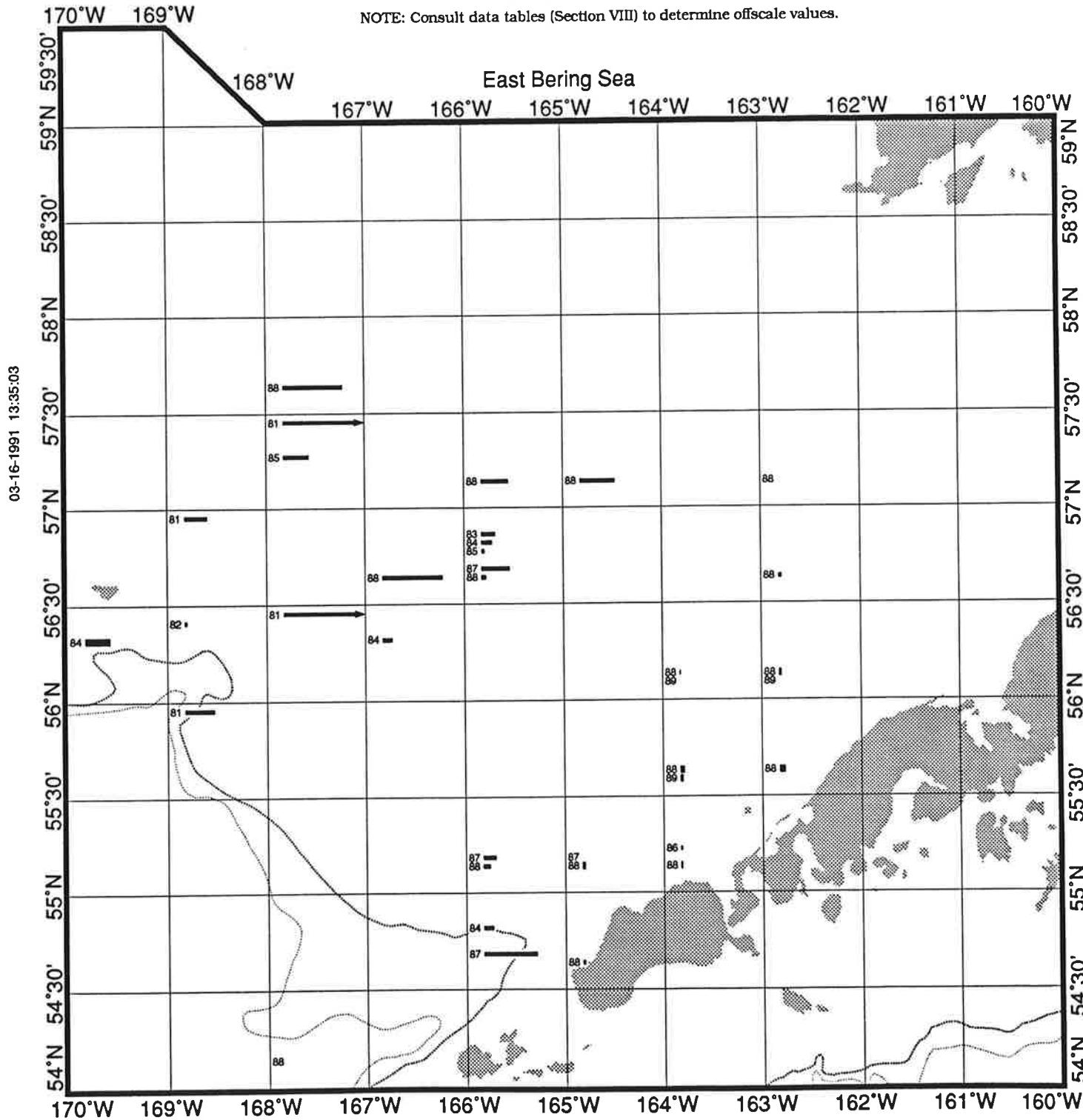
February
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

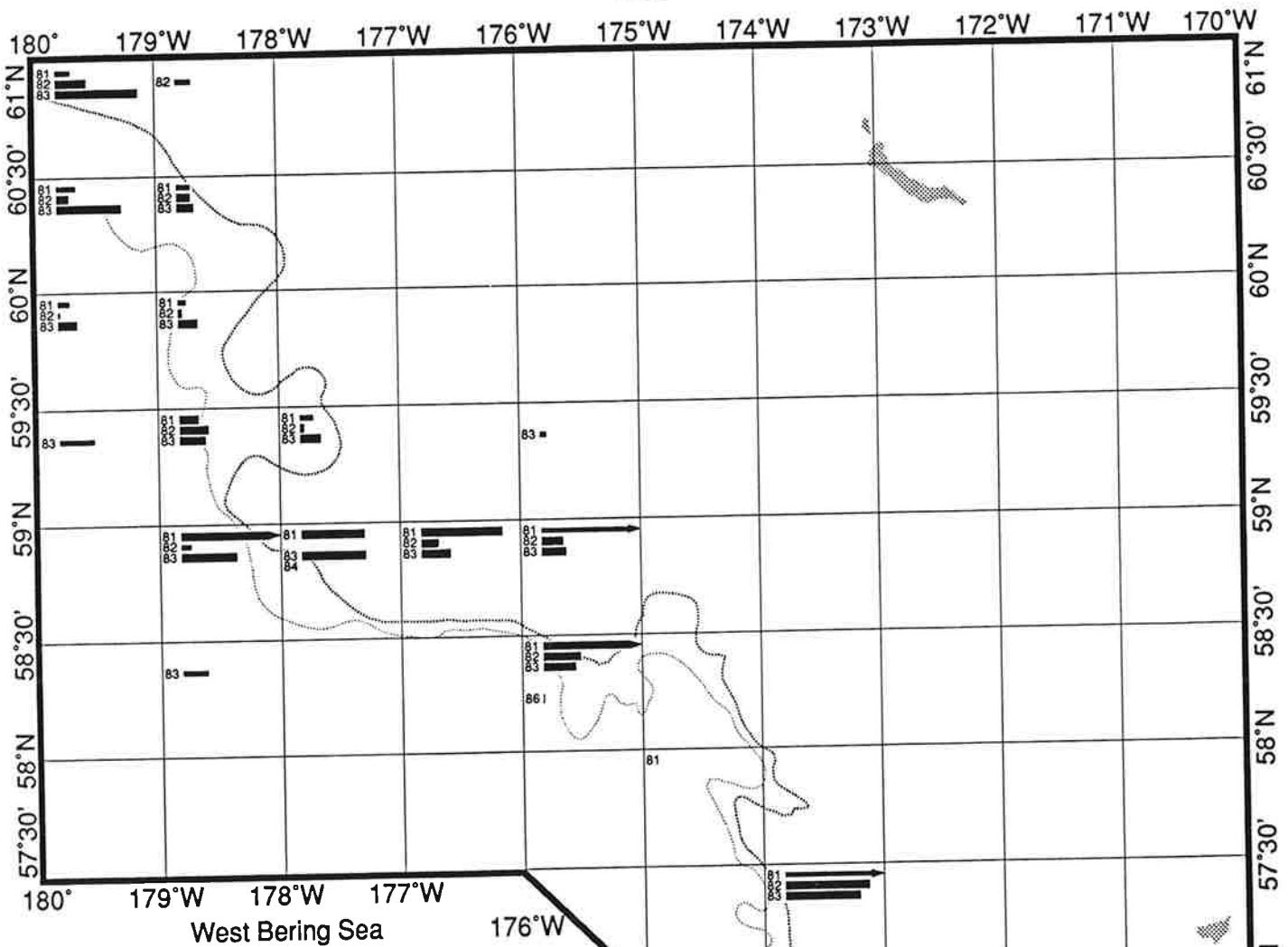
0 50 SCALE: Individuals per Metric Ton.

- 81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

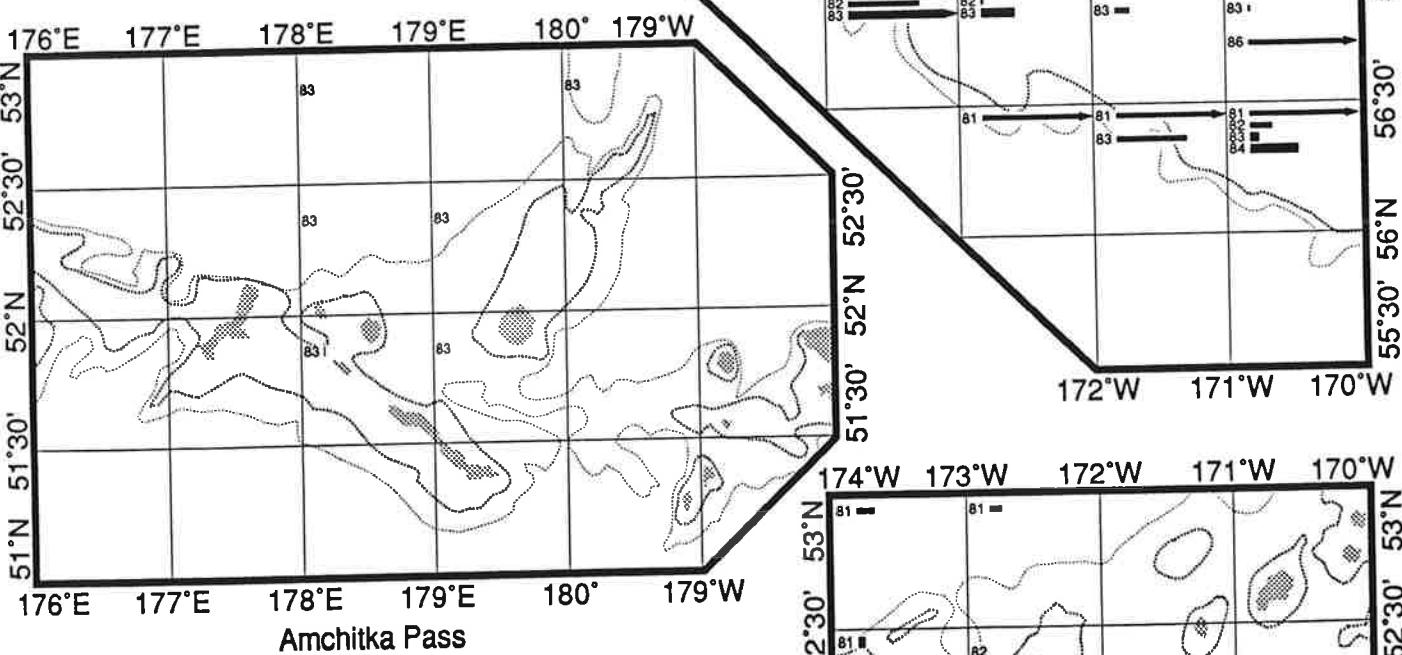


VII-6

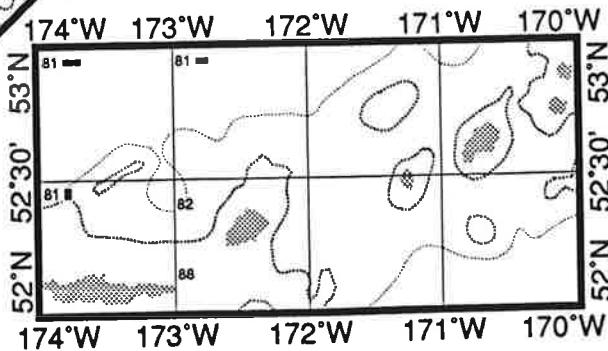


West Bering Sea

03-16-1991 13:35:03



Amchitka Pass



Seguam Pass

**March MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate**

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

March

MISCELLANEOUS SPECIES

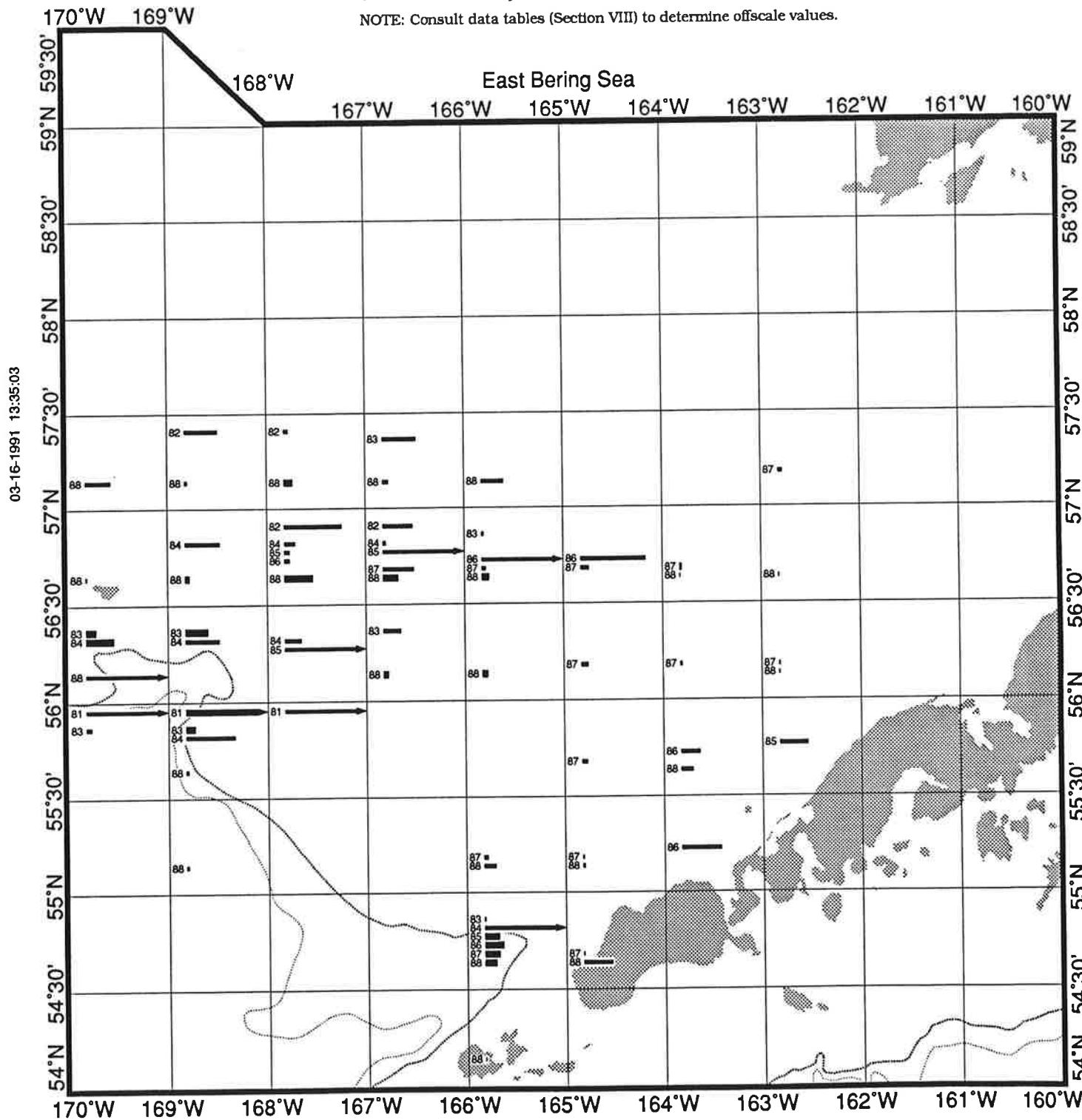
Tanner Crab Bycatch Rate

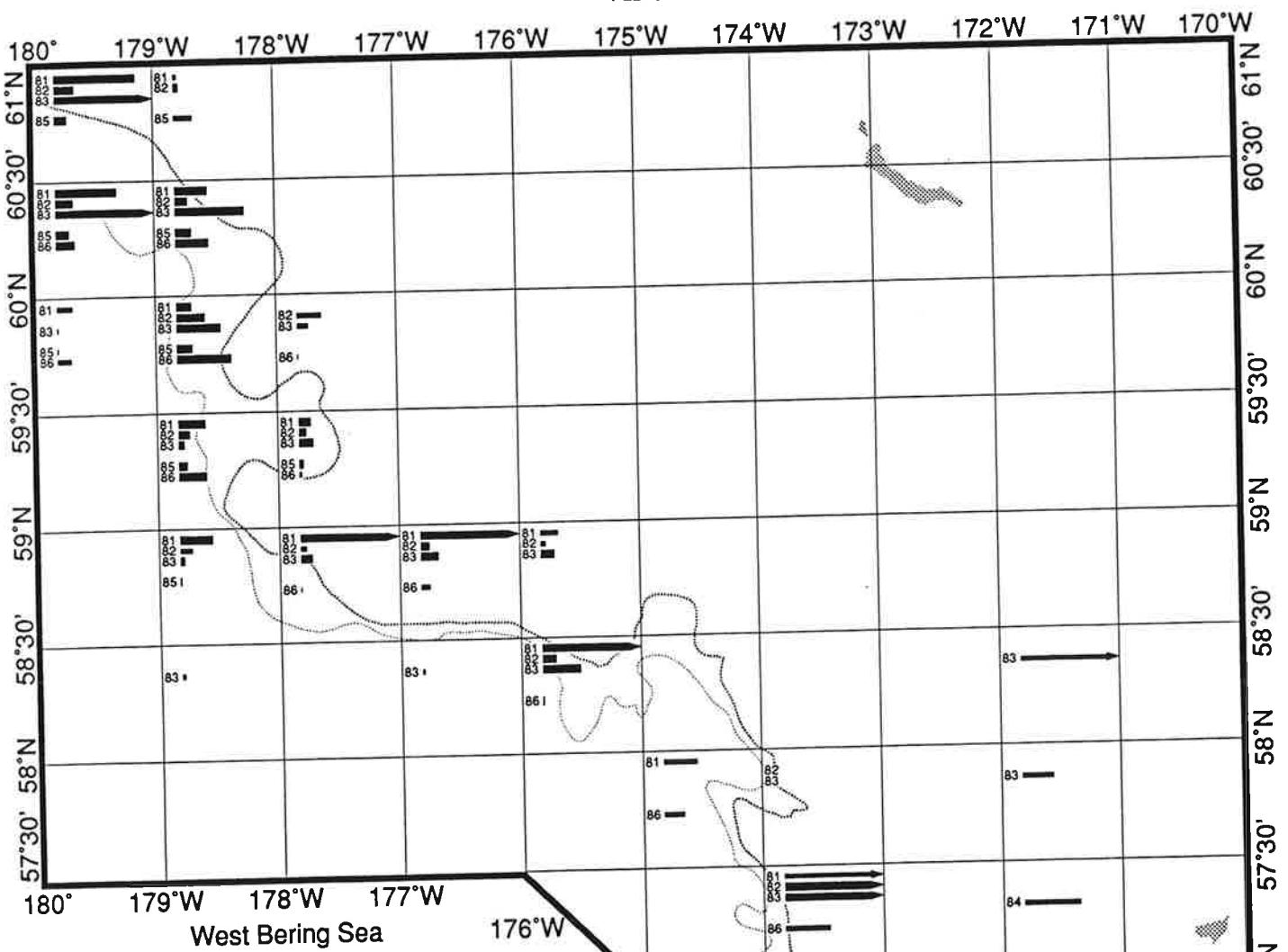
..... 200 Meter Contour.
..... 1000 Meter Contour.

0 50 SCALE: Individuals per Metric Ton.

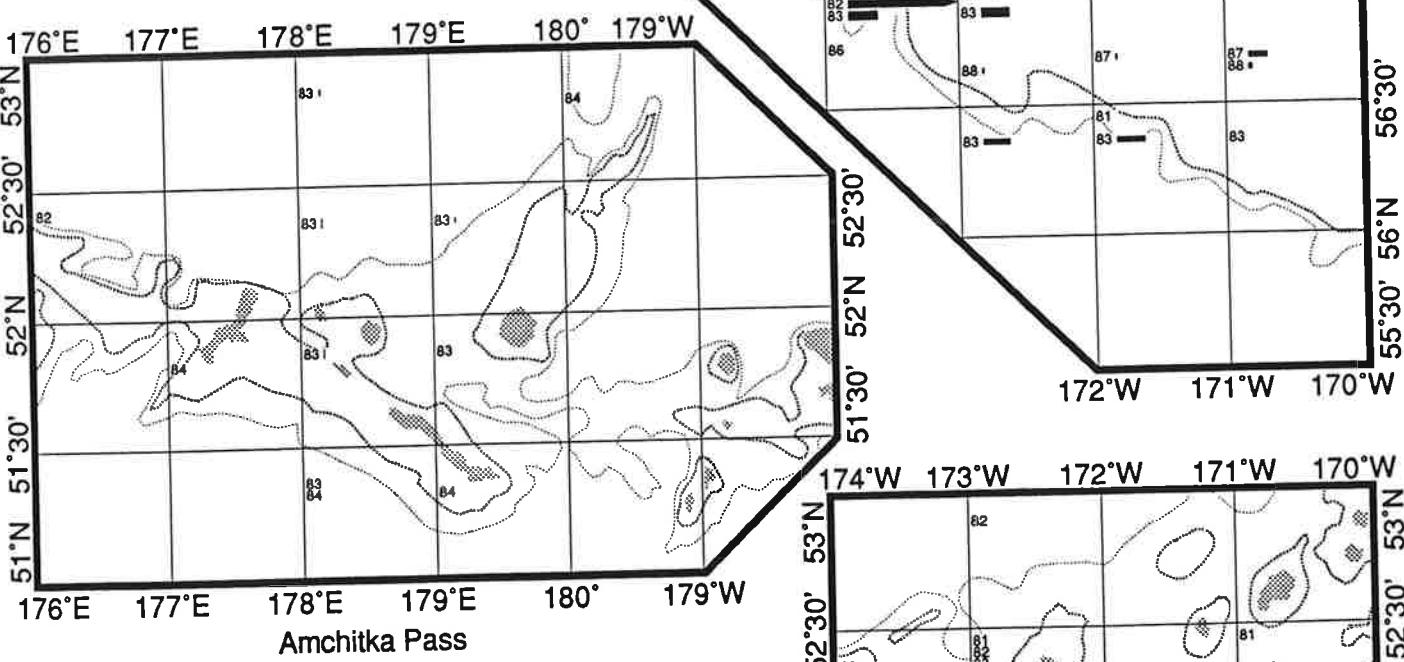
- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ■■■■■ 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.





03-16-1991 13:35:03



April
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

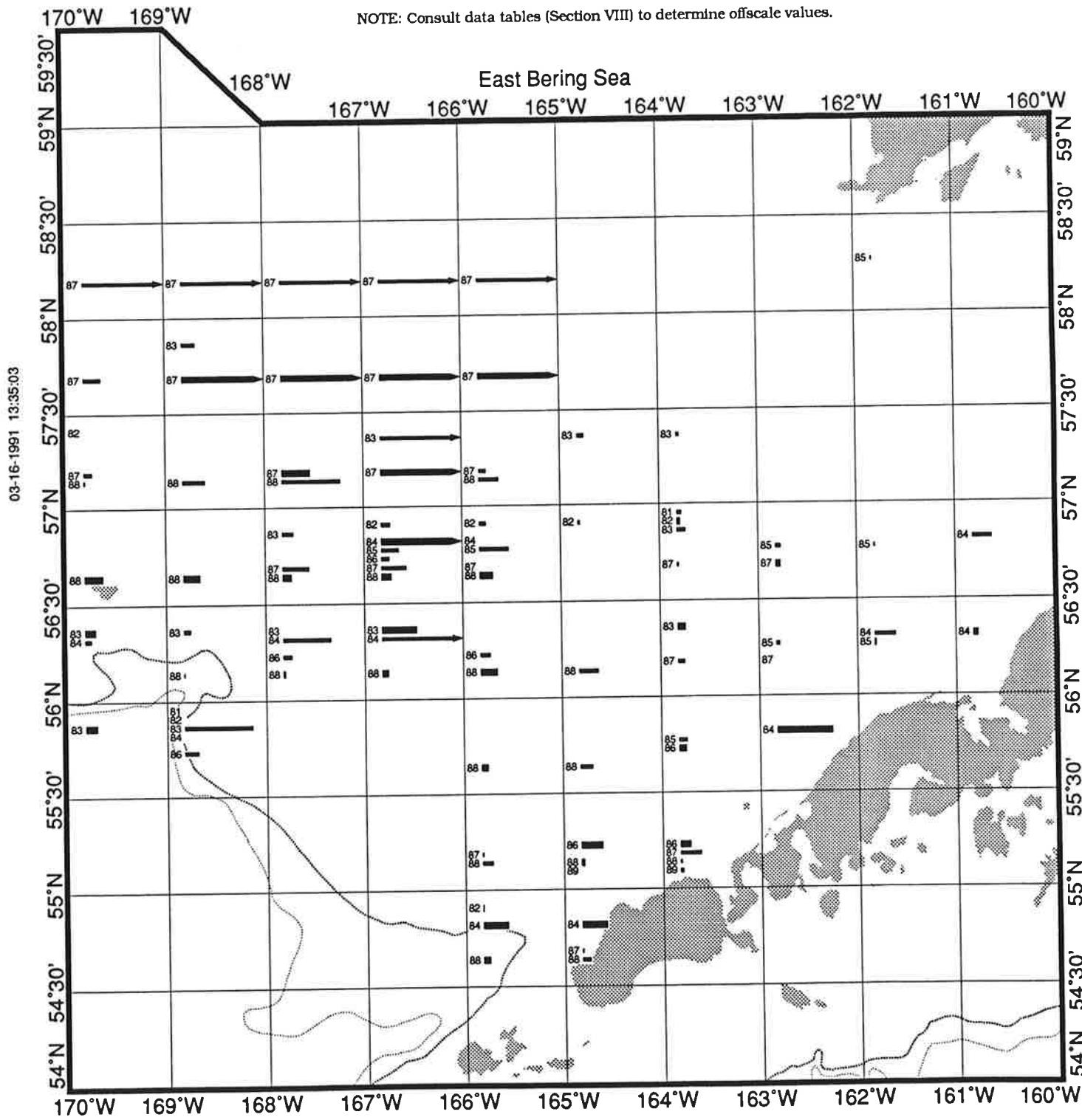
April
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

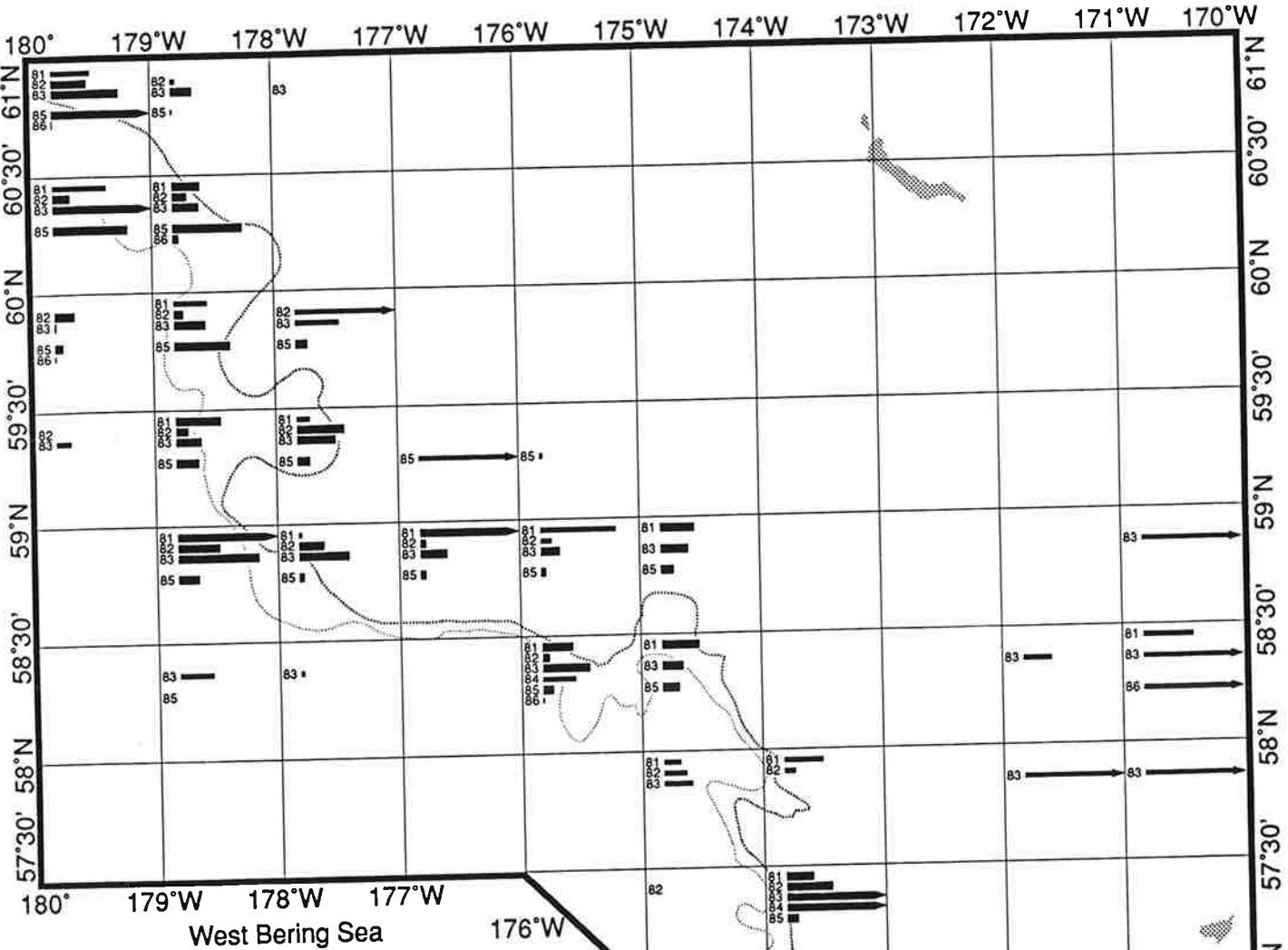
0 50 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

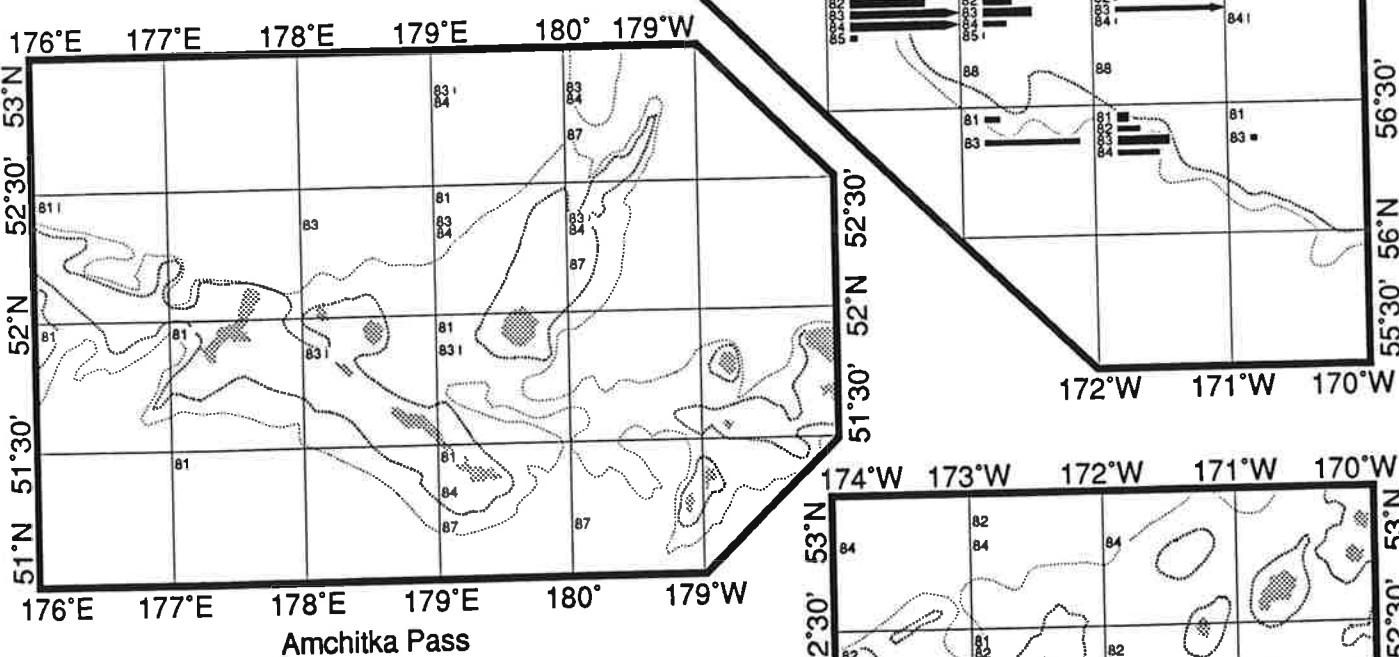
NOTE: Consult data tables (Section VIII) to determine offscale values.



VII-10



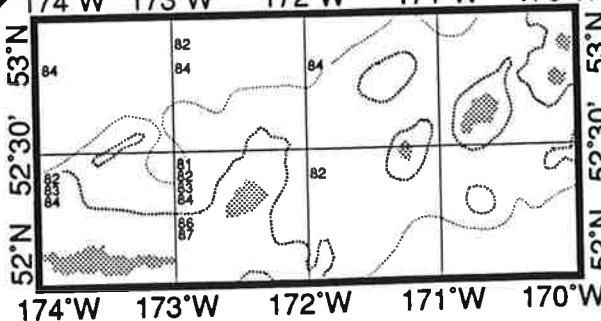
West Bering Sea



Amchitka Pass

Seguam Pass

May
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate



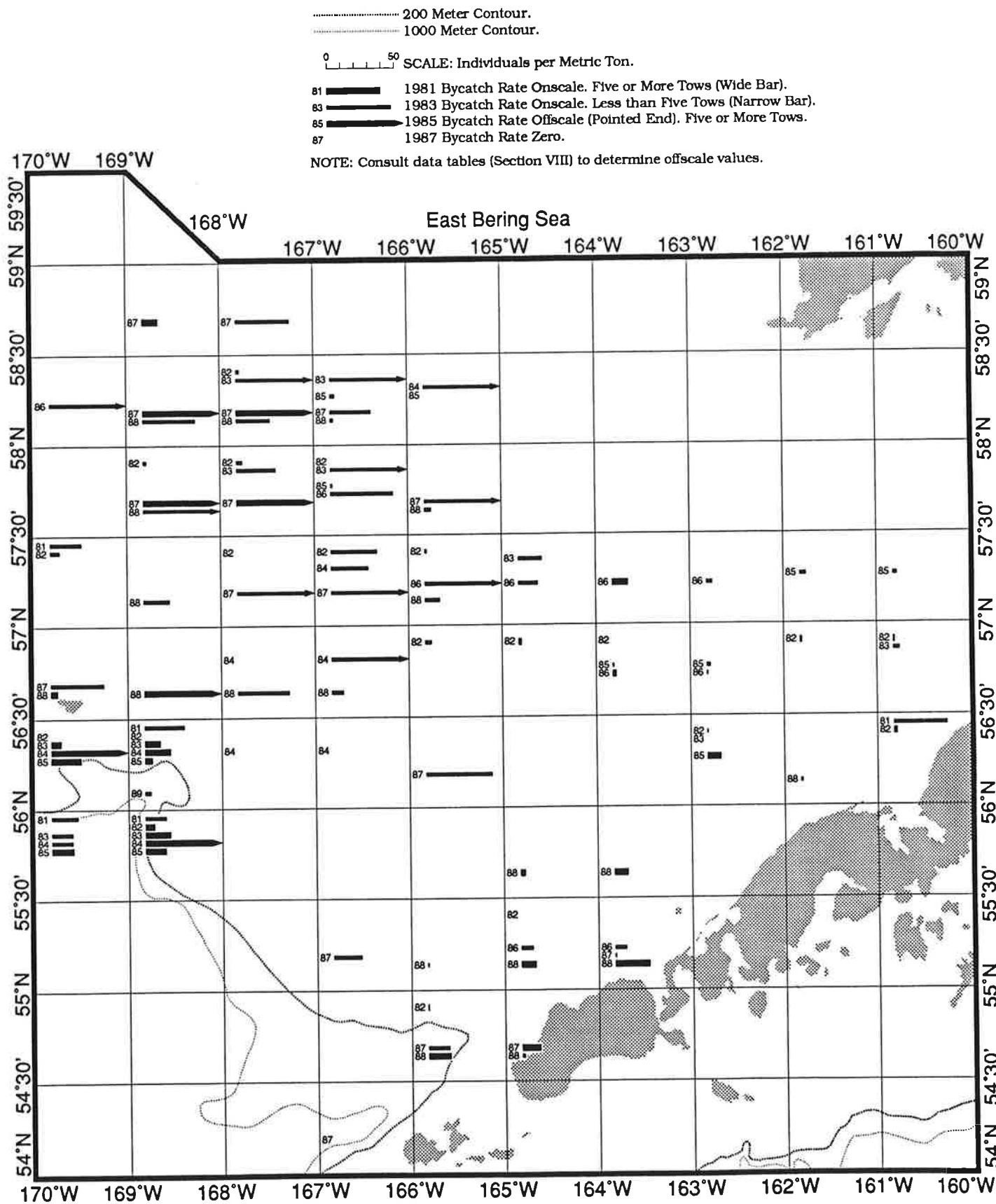
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 13:35:03

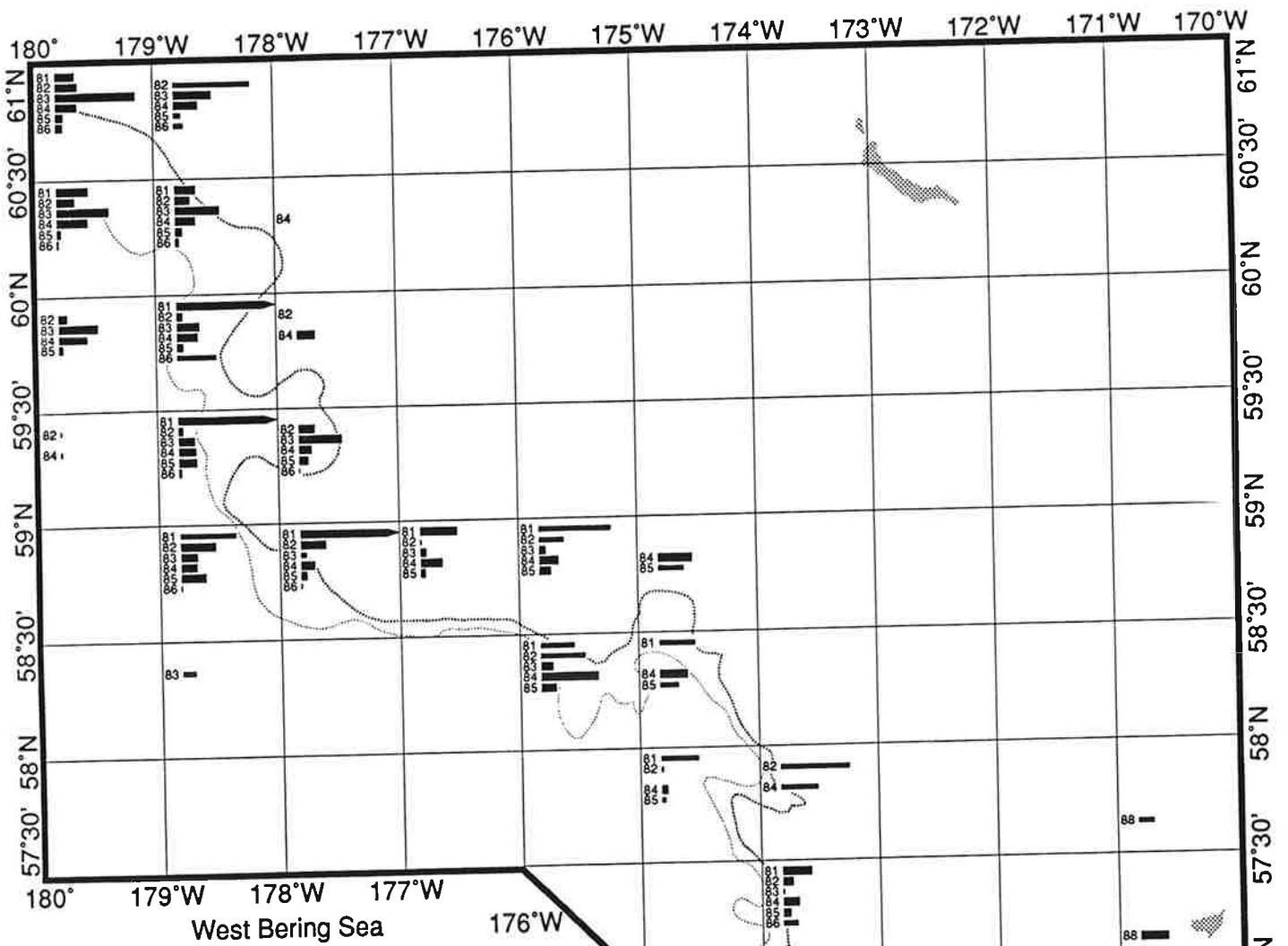
May

MISCELLANEOUS SPECIES

Tanner Crab Bycatch Rate

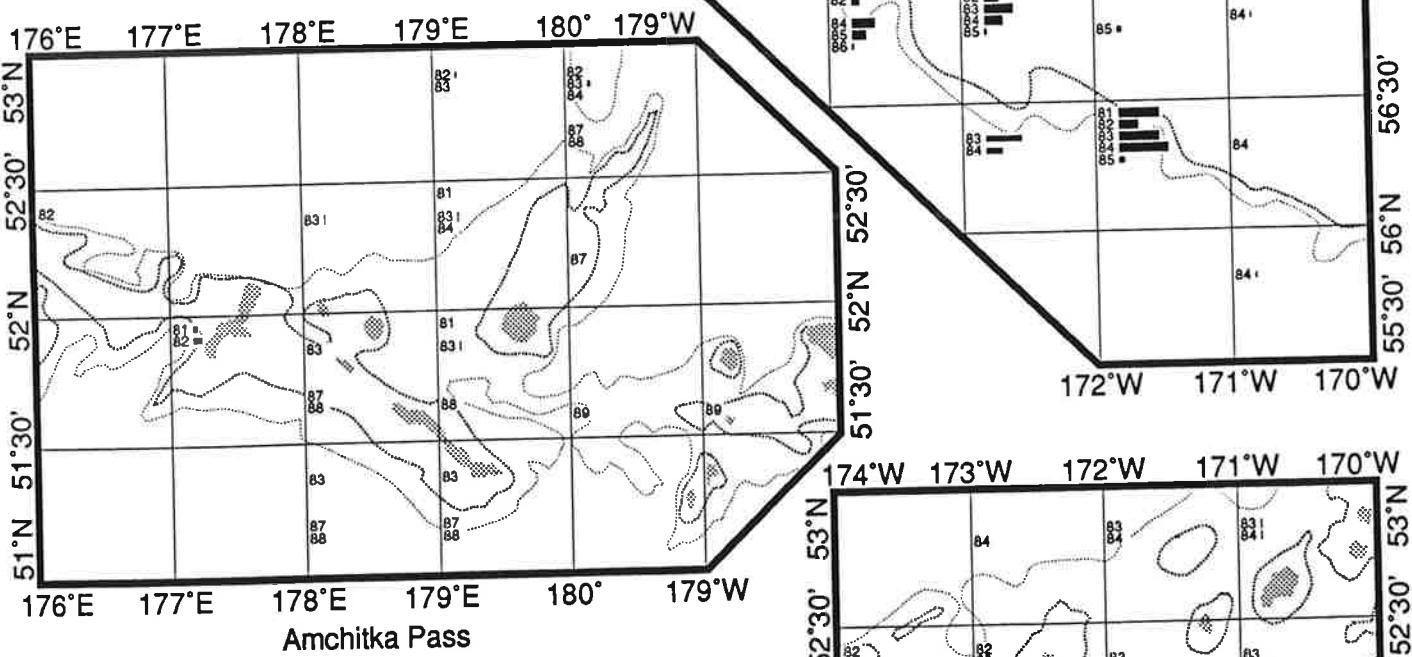


VII-12



West Bering Sea

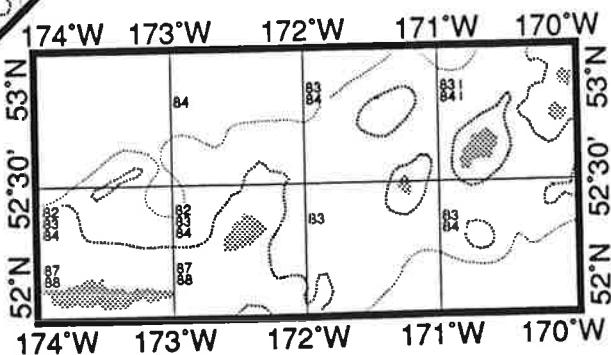
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Amchitka Pass

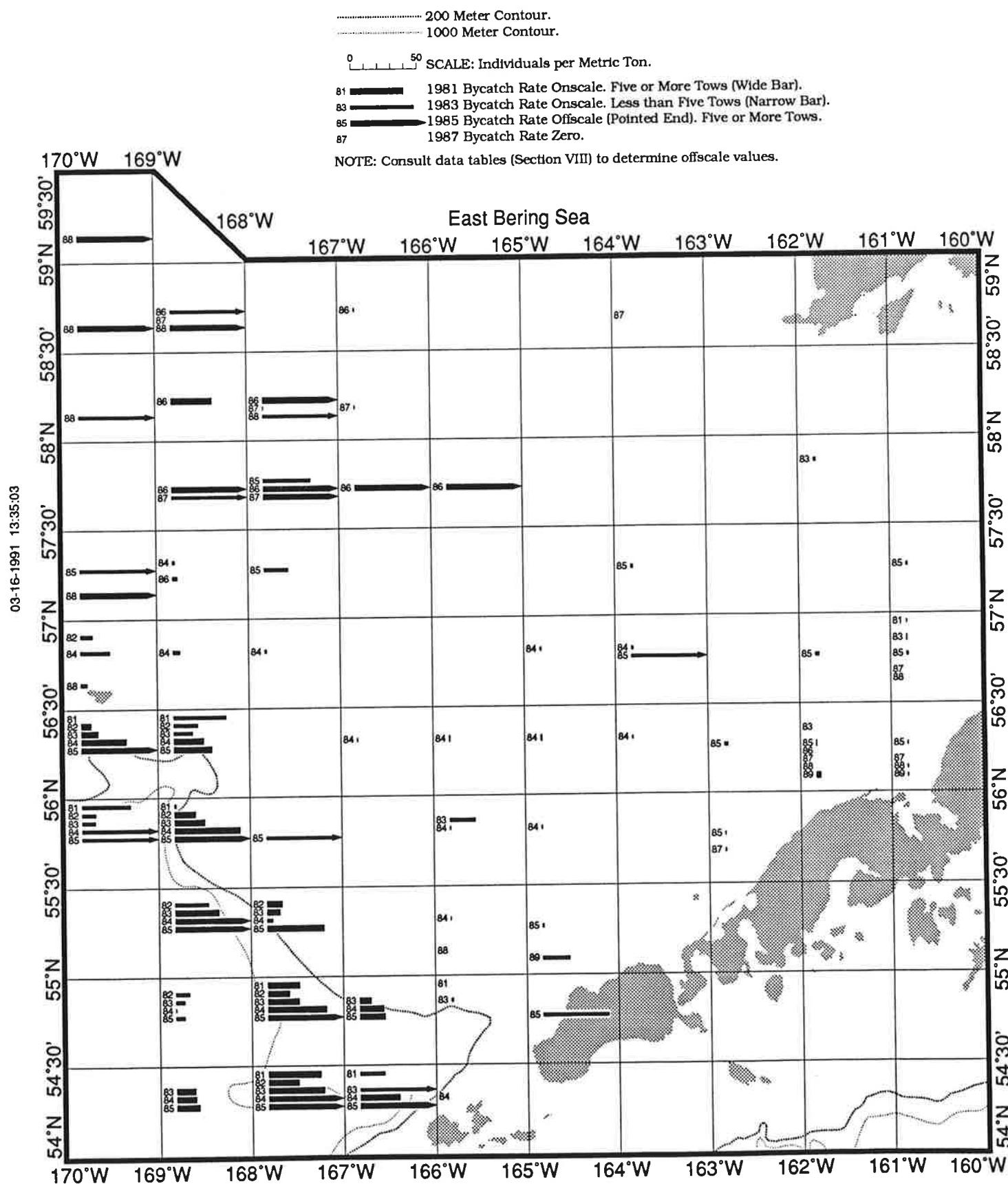
June
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

Seguam Pass

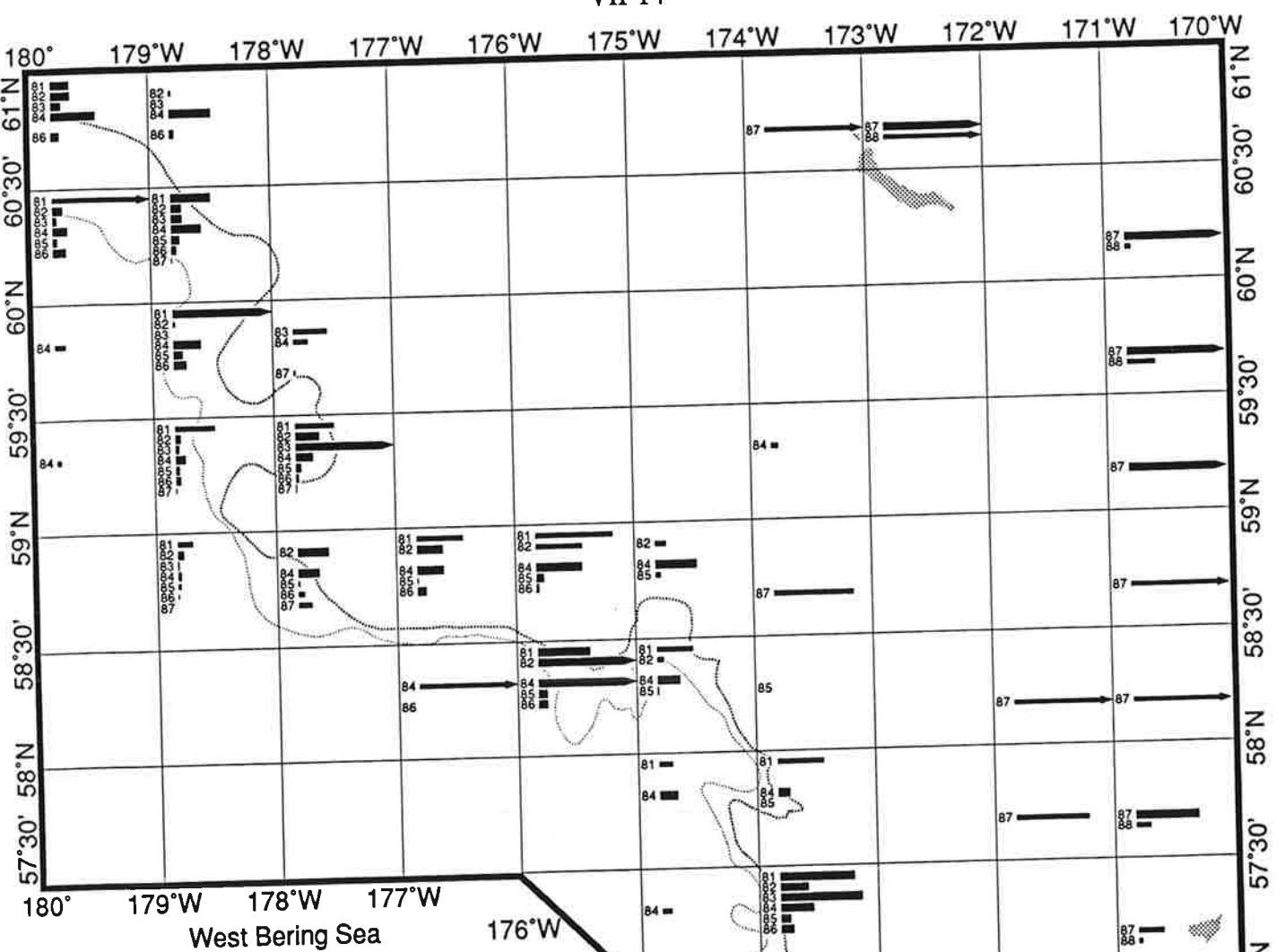


IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

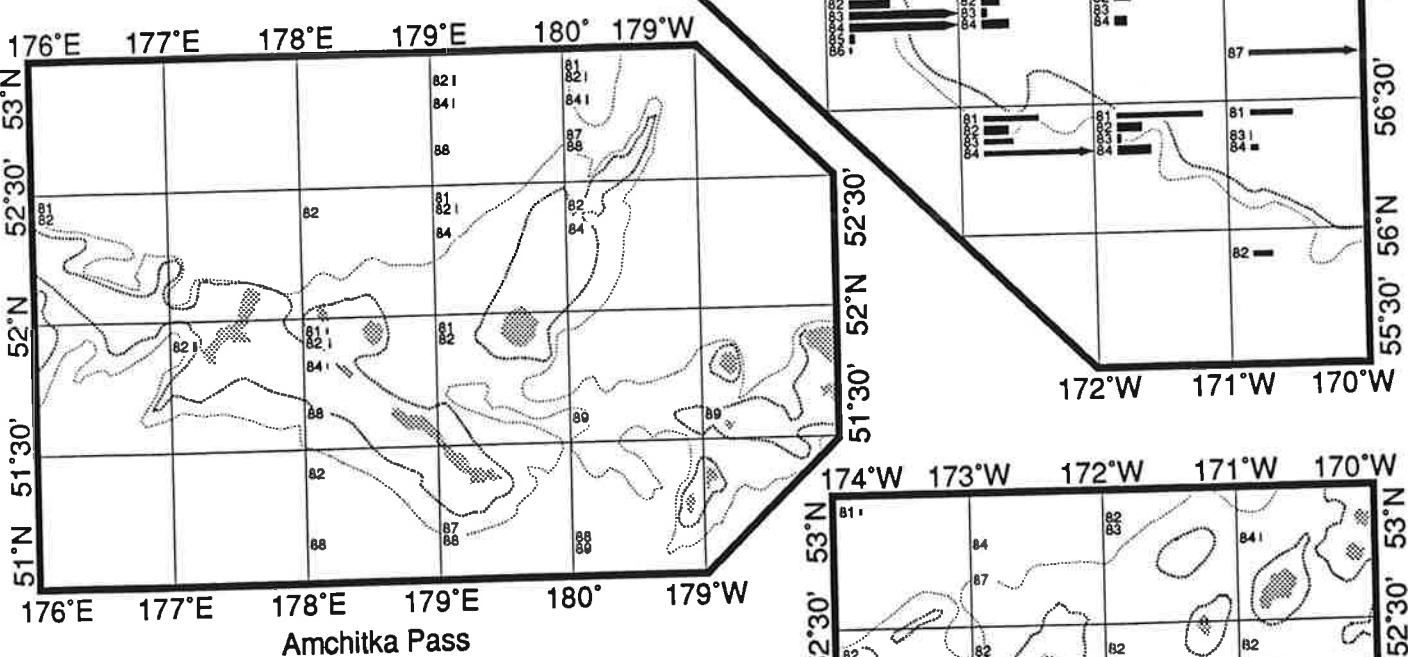
June
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate



VII-14



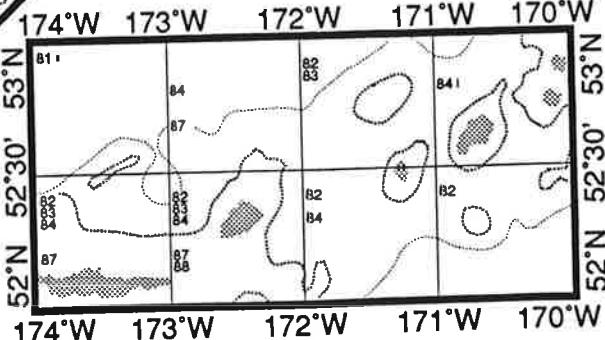
West Bering Sea



Amchitka Pass

Seguam Pass

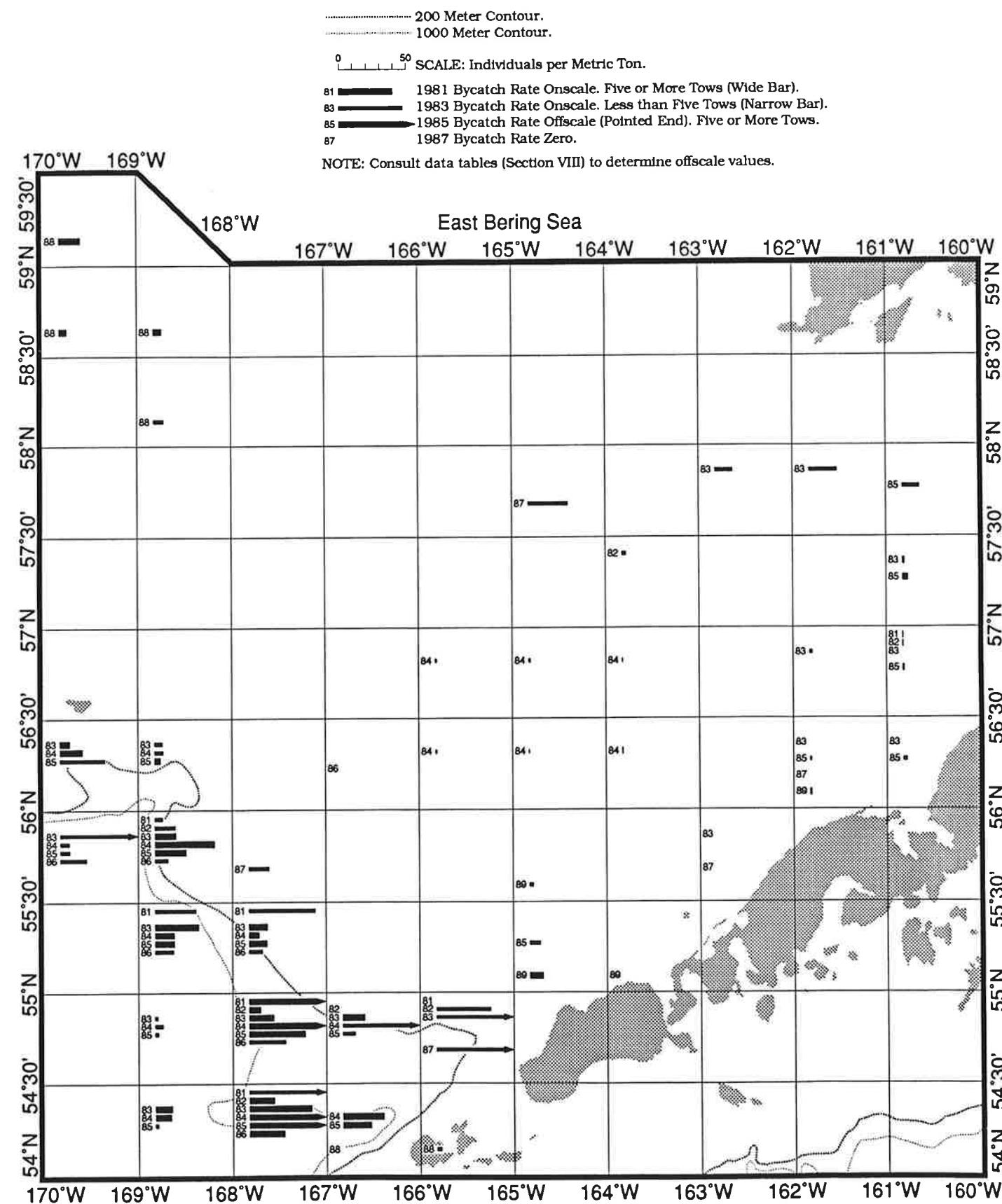
July
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate



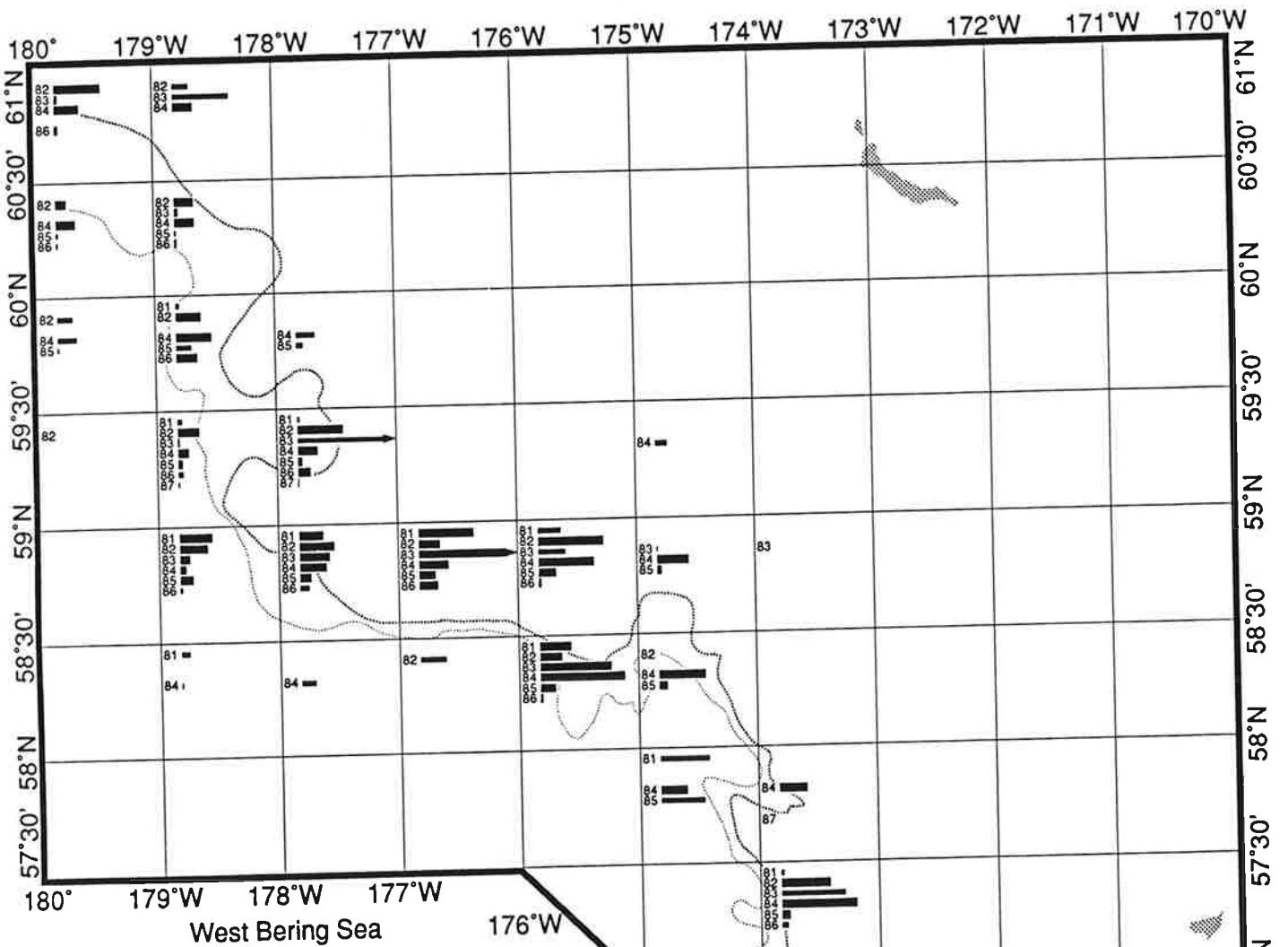
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 13:35:03

July
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

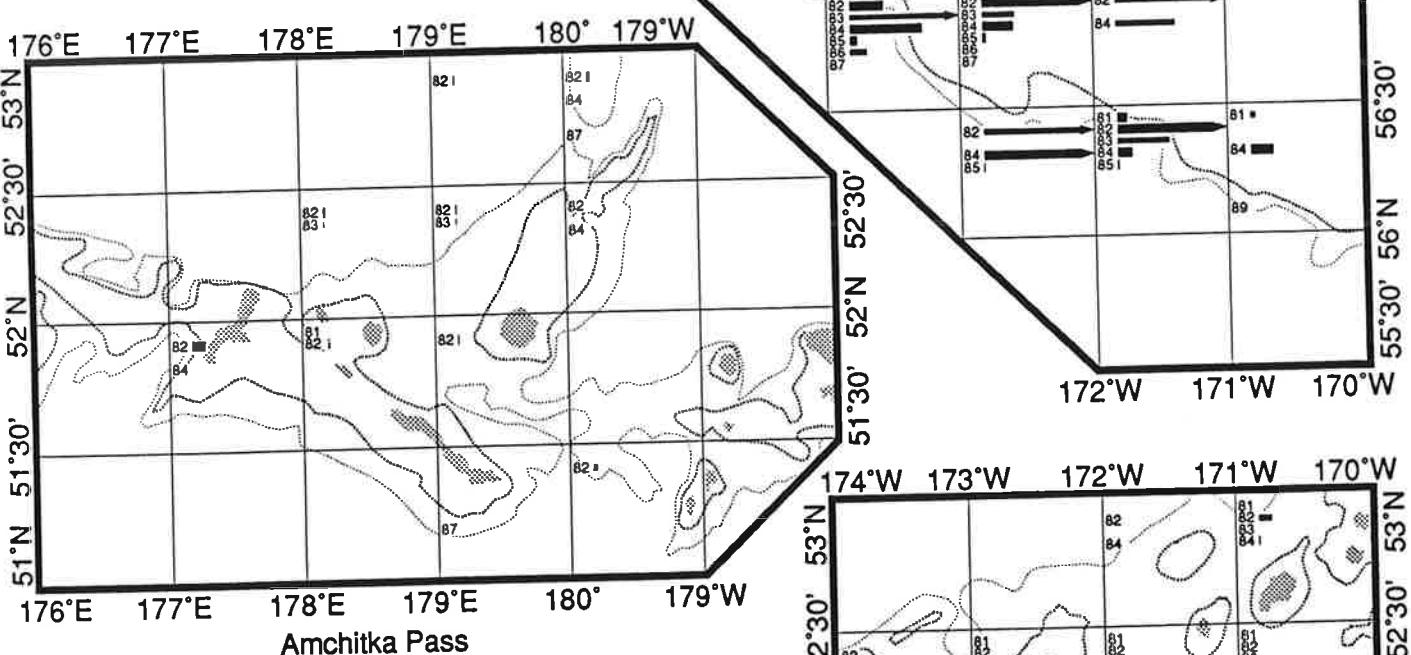


VII-16



West Bering Sea

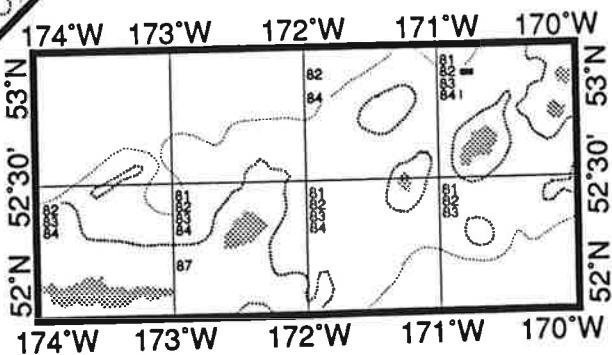
03-16-1991 13:35:03



Amchitka Pass

August
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

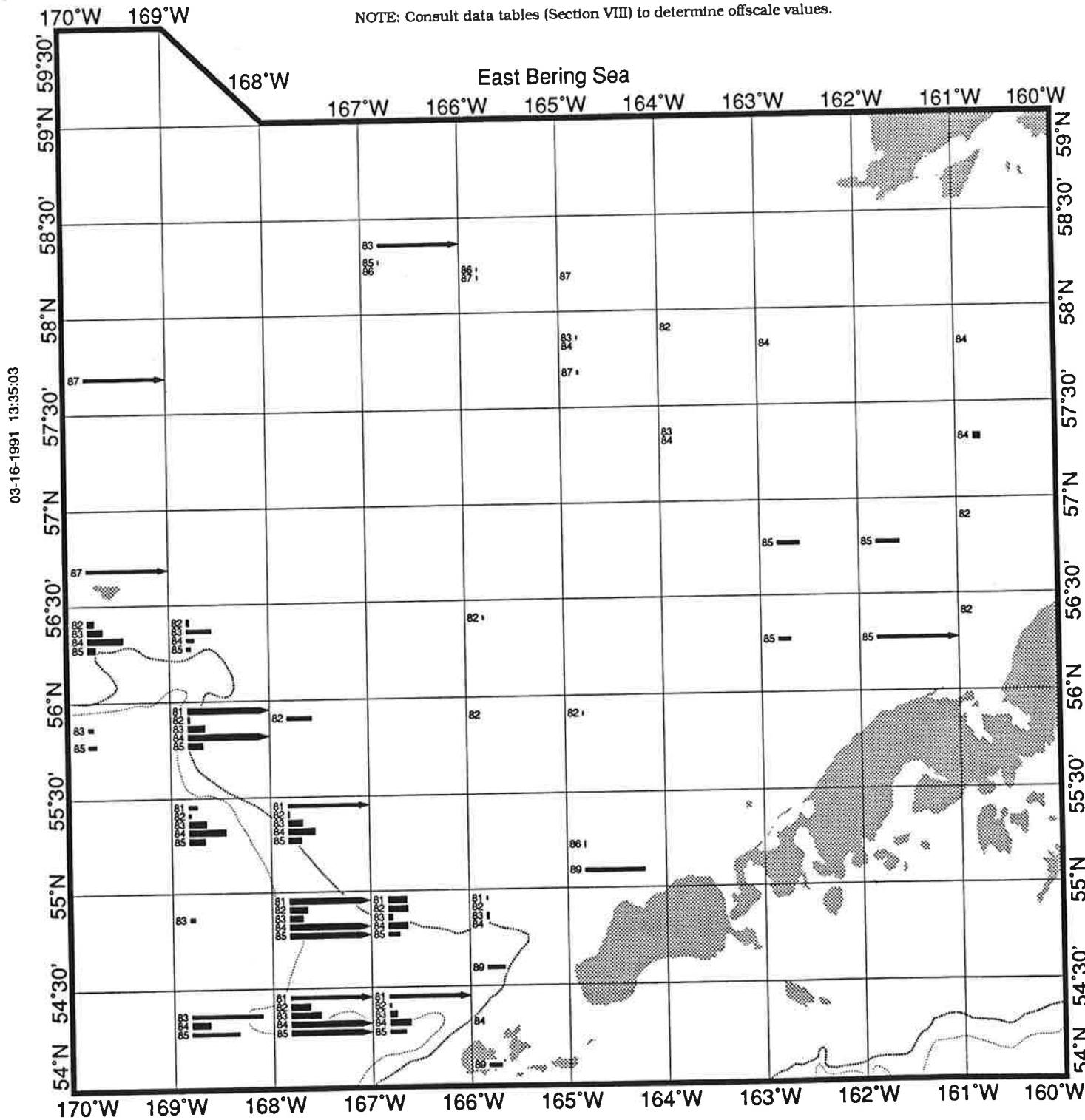
August
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

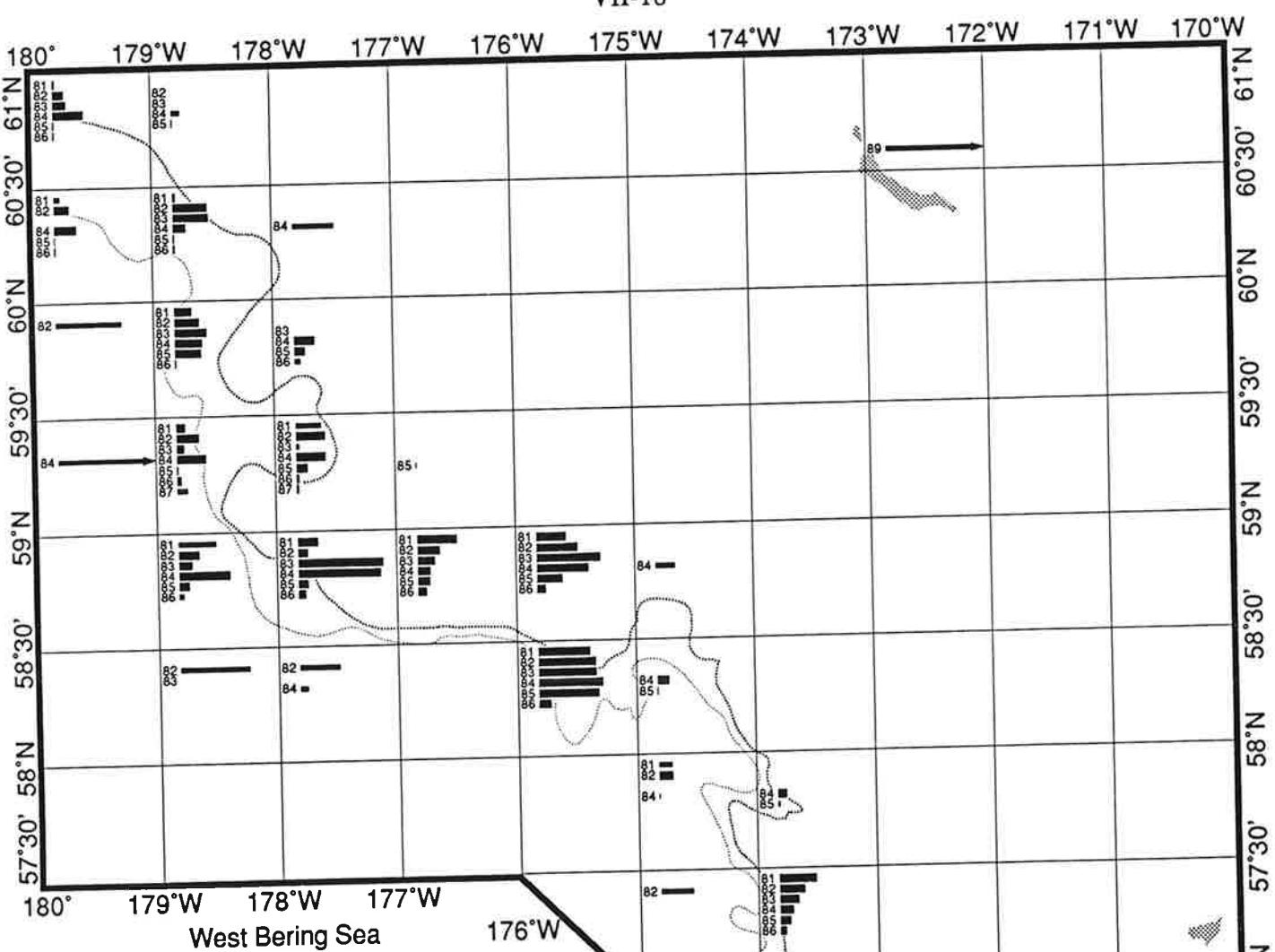
0 50 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 ————— 1987 Bycatch Rate Zero.

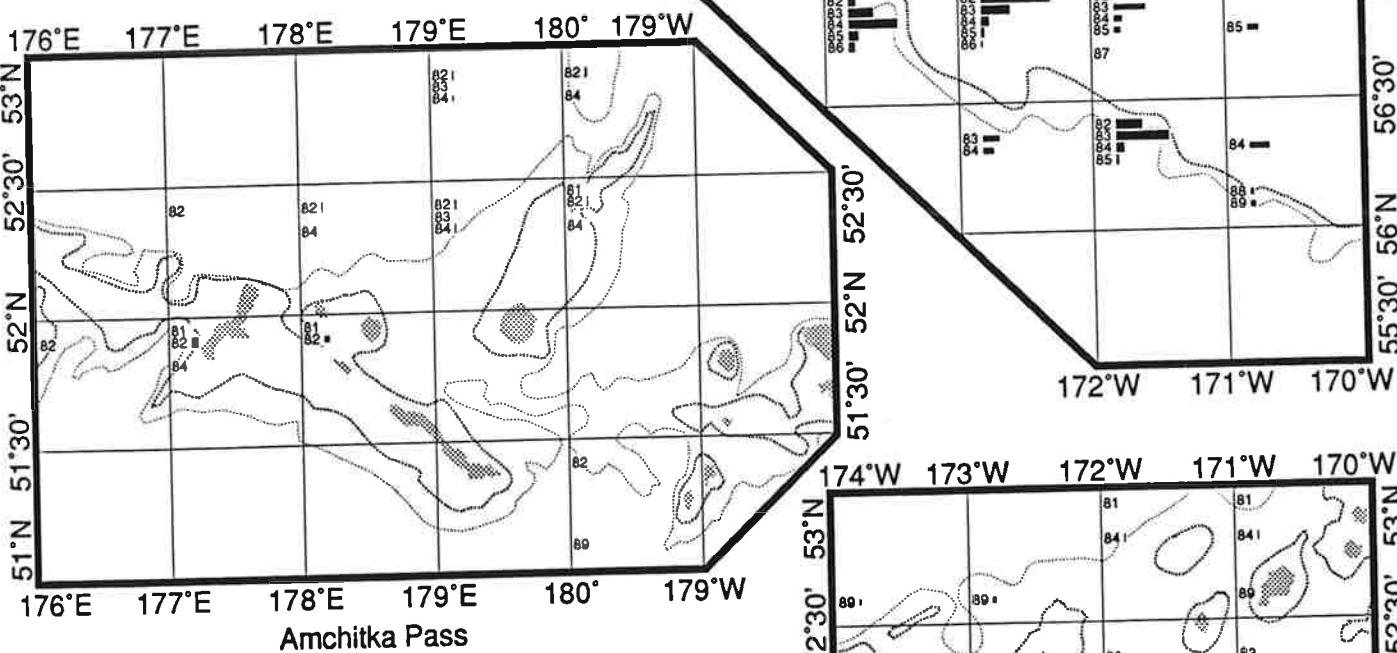
NOTE: Consult data tables (Section VIII) to determine offscale values.



VII-18

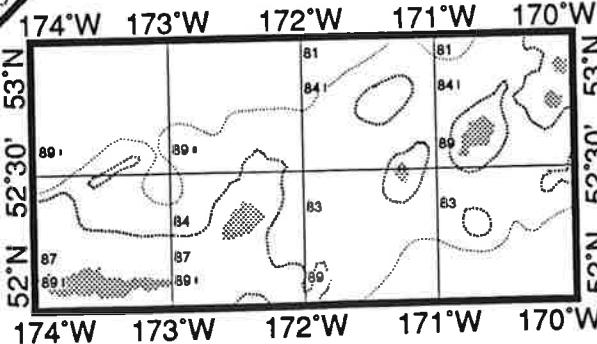


West Bering Sea



Amchitka Pass

Seguam Pass



September MISCELLANEOUS SPECIES Tanner Crab Bycatch Rate

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

03-16-1991 13:35:03

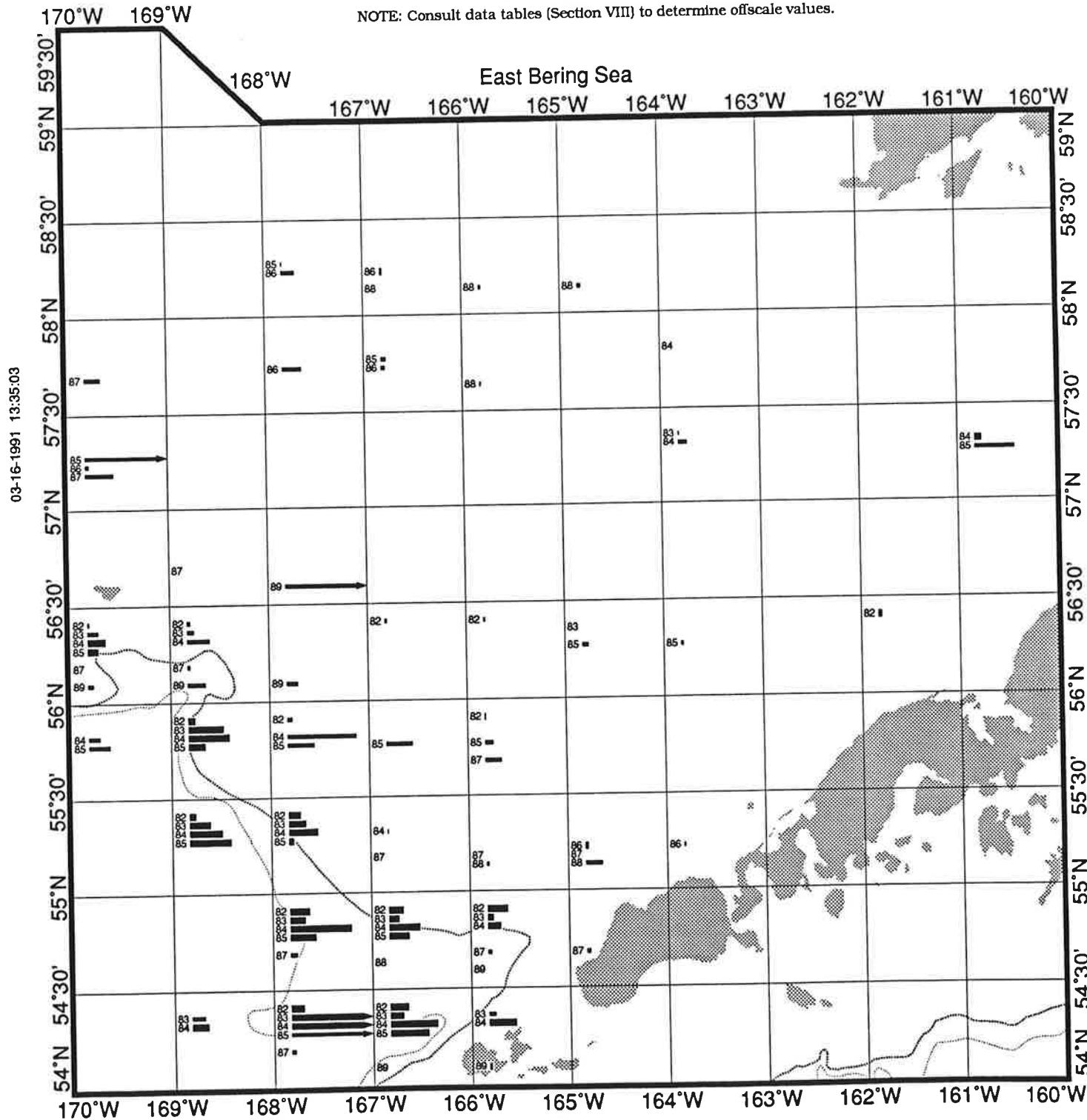
September MISCELLANEOUS SPECIES Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

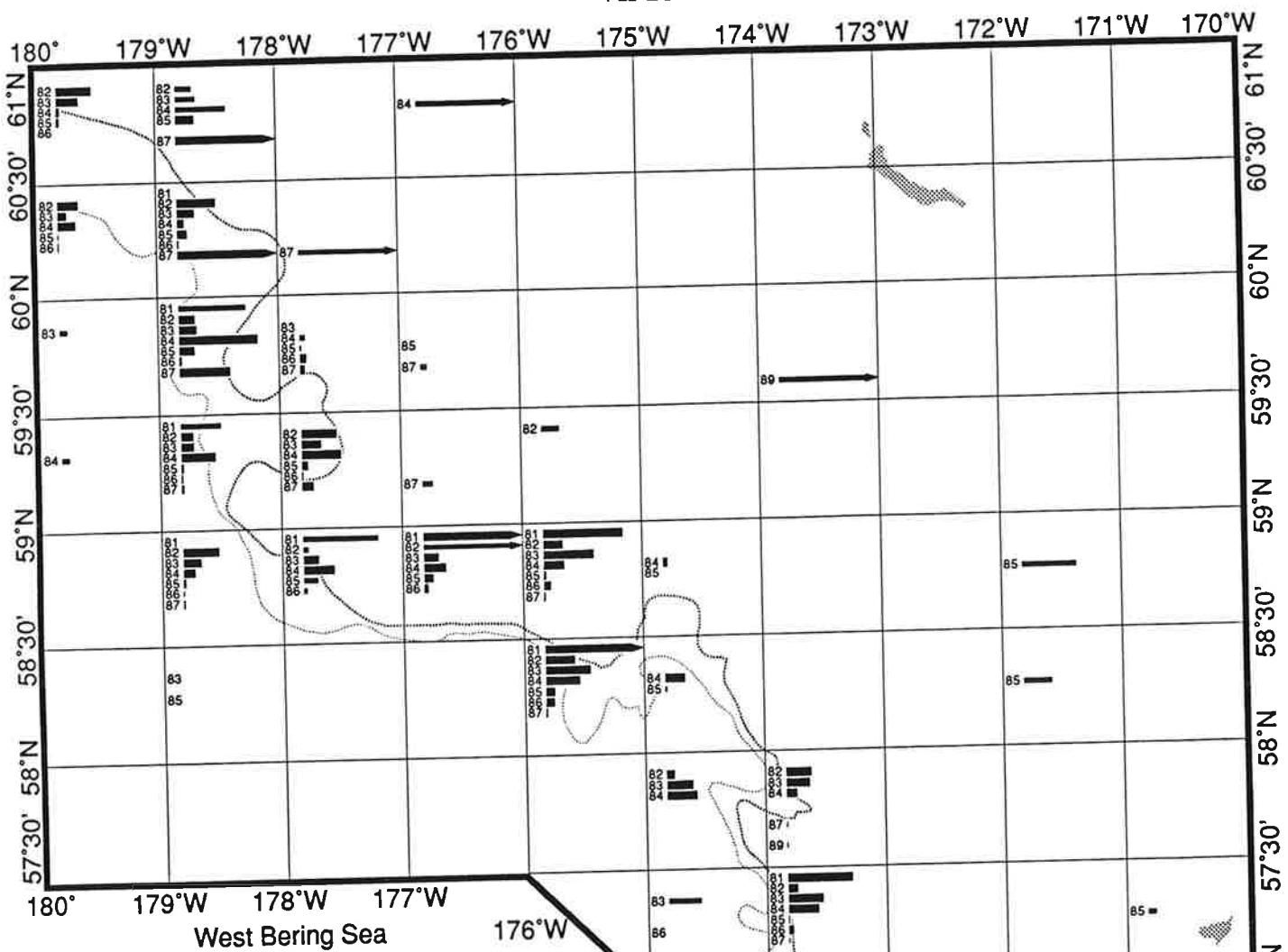
0 50 SCALE: Individuals per Metric Ton.

81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

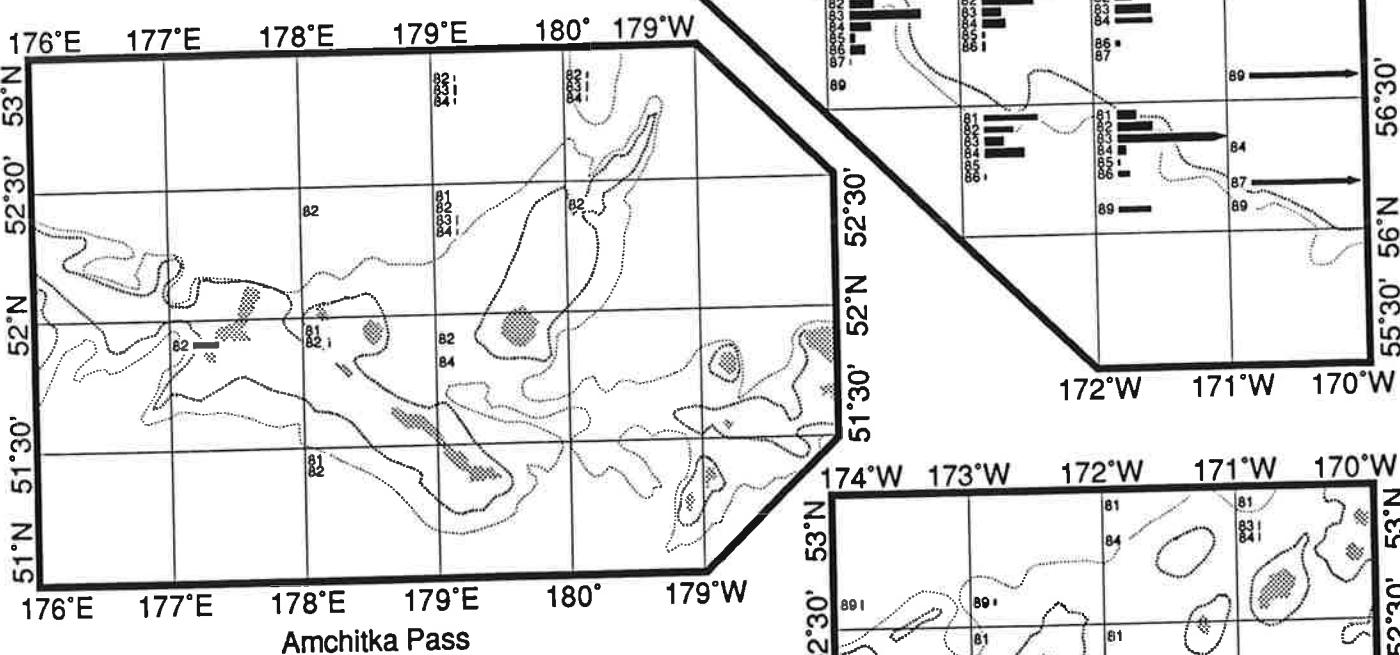
NOTE: Consult data tables (Section VIII) to determine offscale values.



VII-20

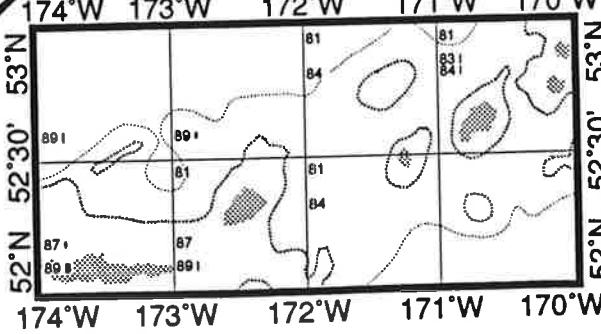


03-16-1991 13:35:03



October
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

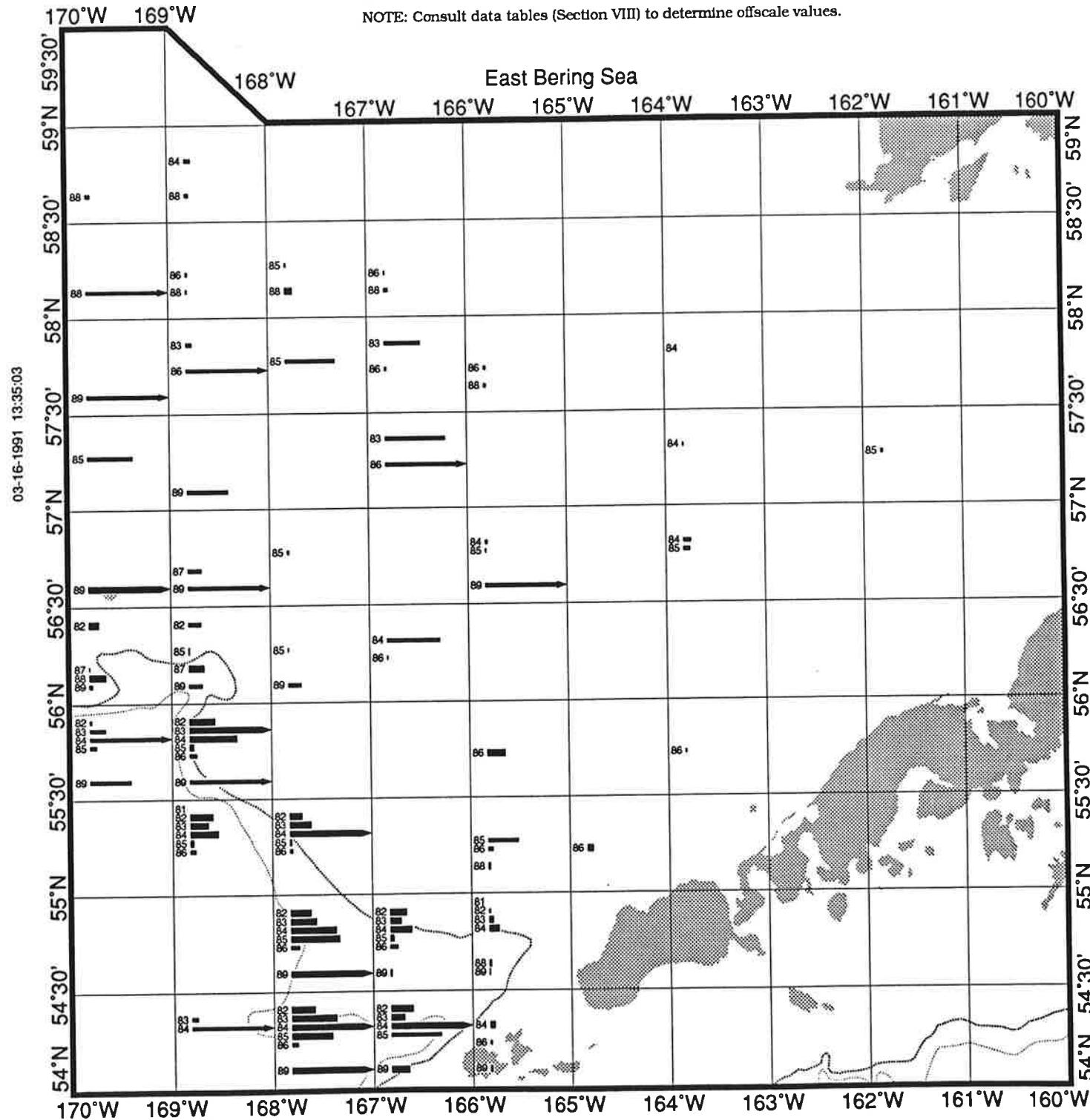
October
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

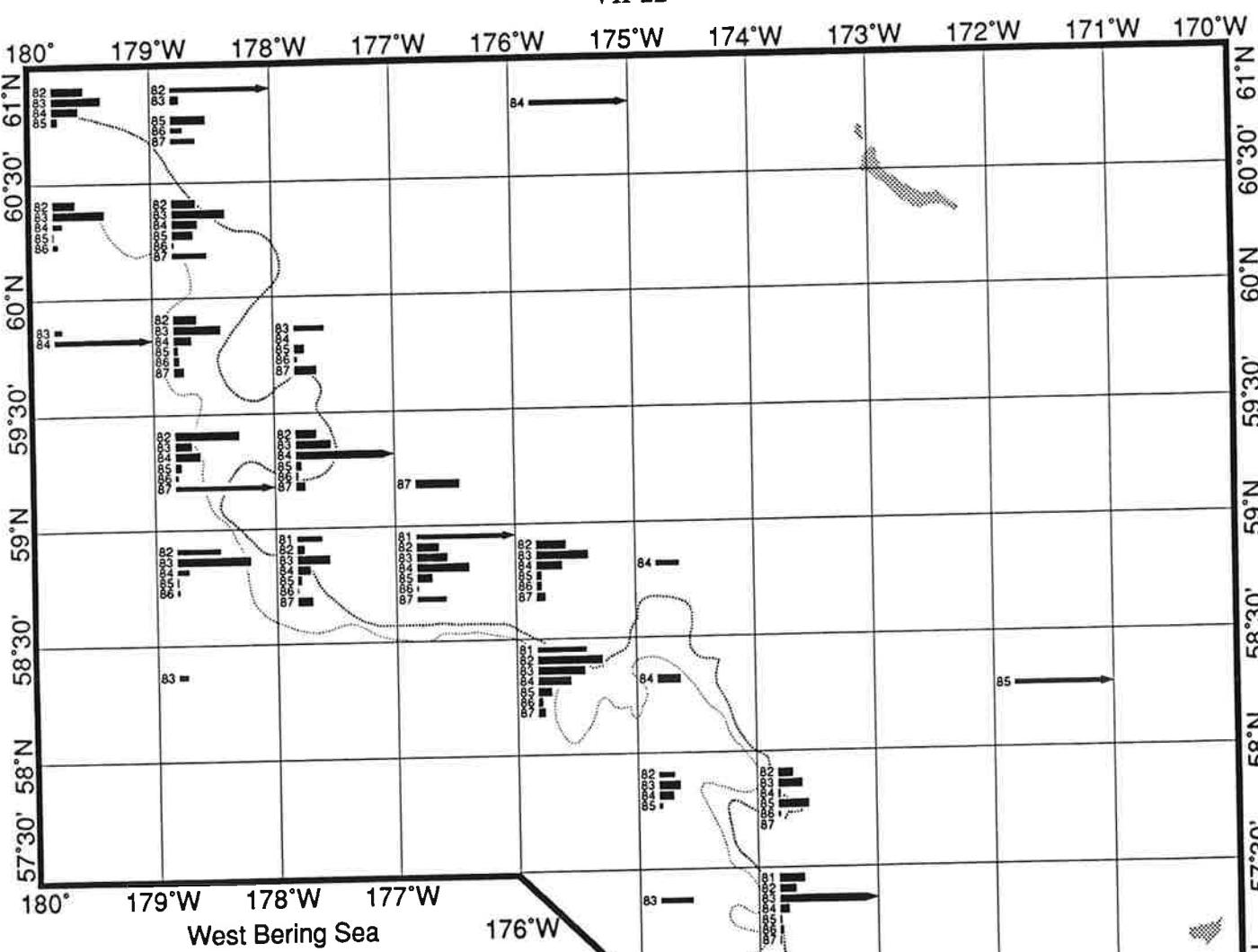
0 50 SCALE: Individuals per Metric Ton.

81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

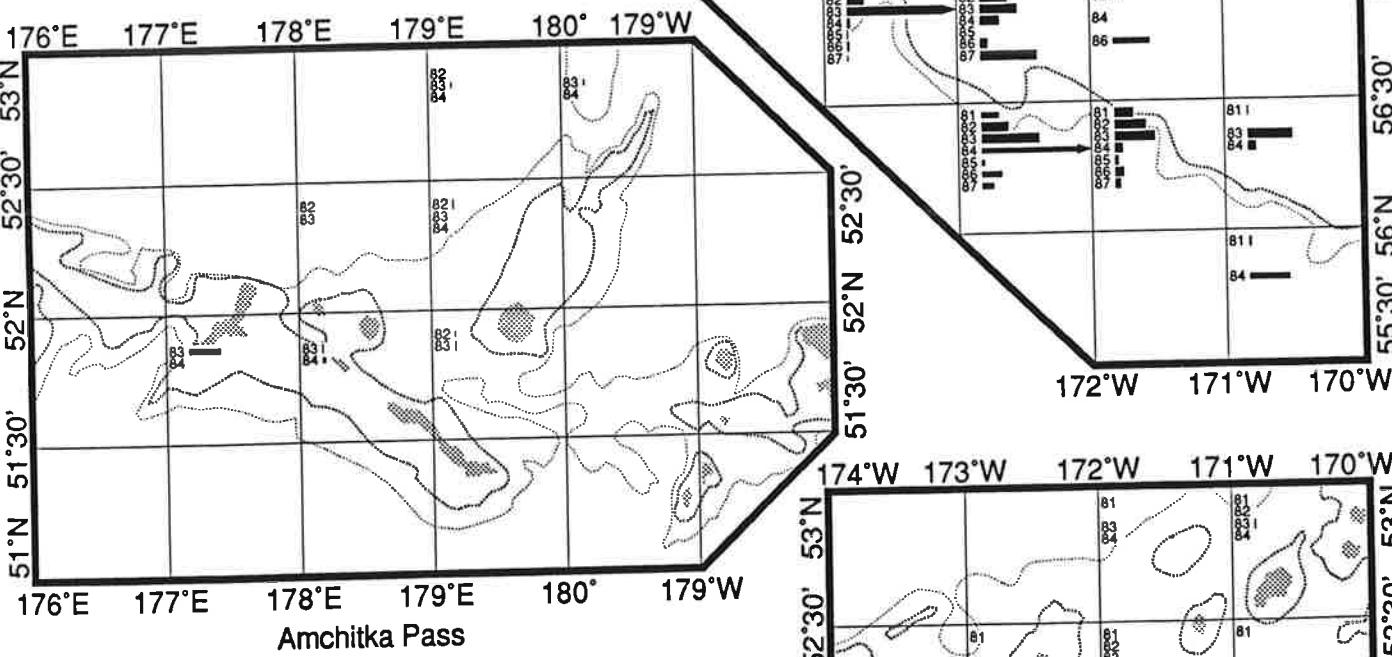
NOTE: Consult data tables (Section VIII) to determine offscale values.



VII-22

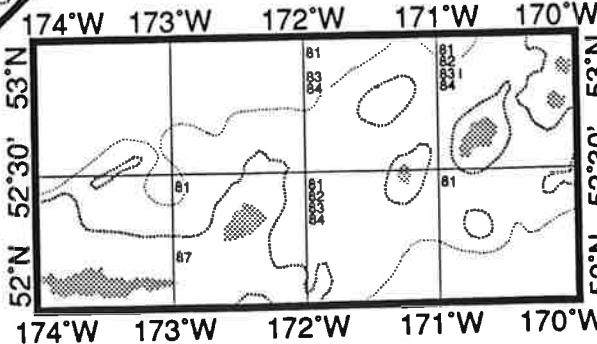


03-16-1991 13:35:03



**November MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate**

Seguam Pass



IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

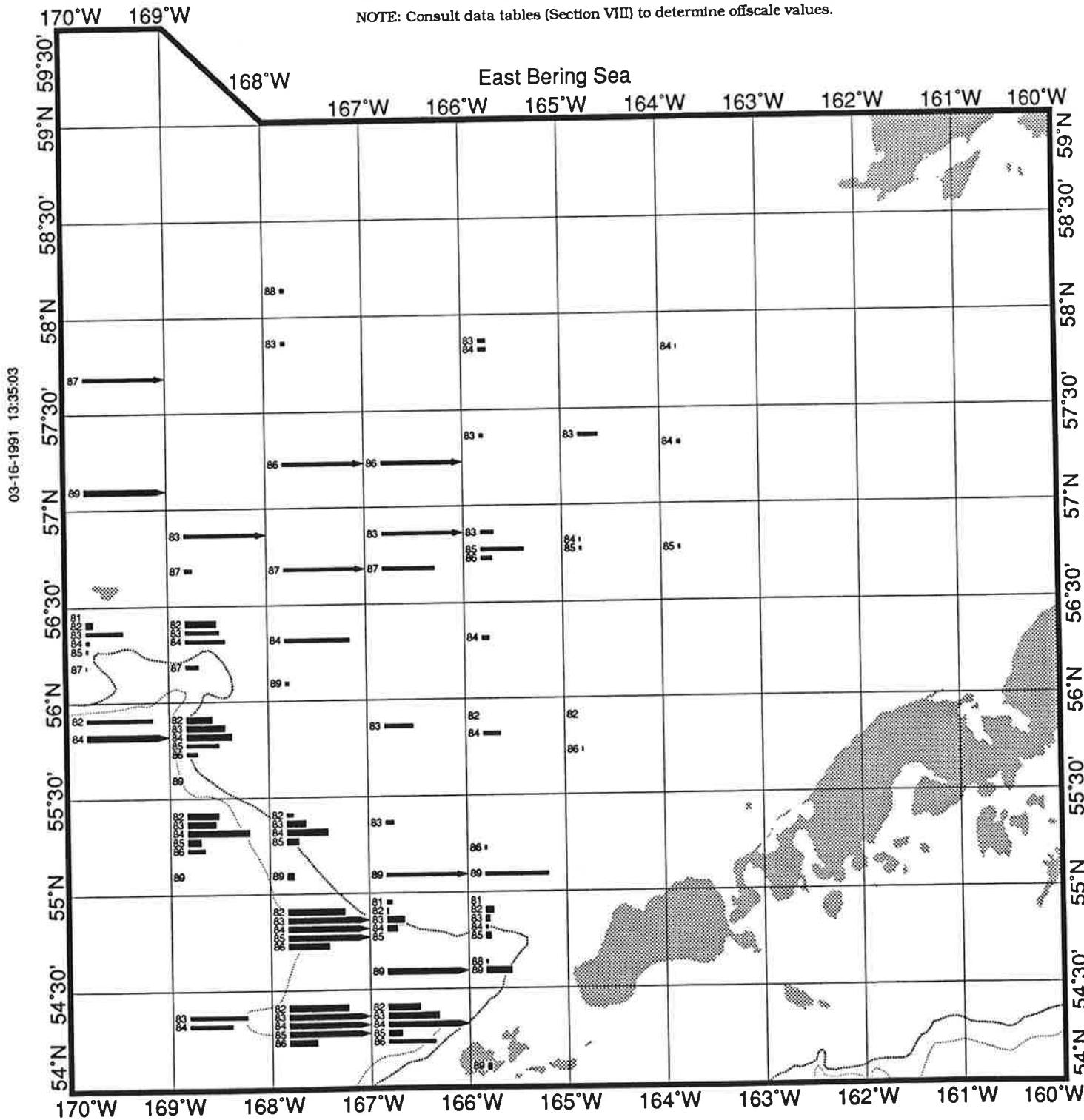
November
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

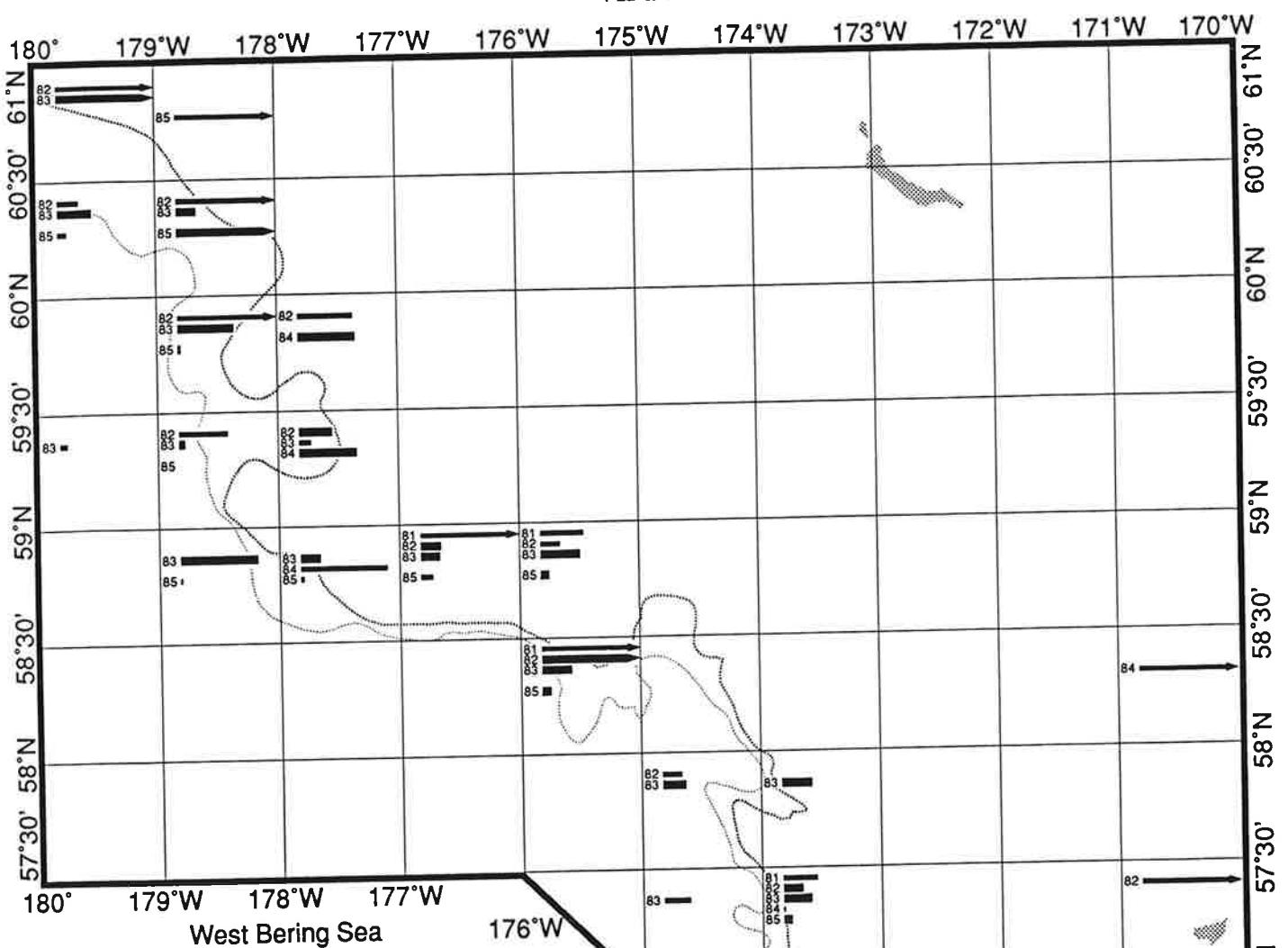
0 50 SCALE: Individuals per Metric Ton.

81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 ————— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.

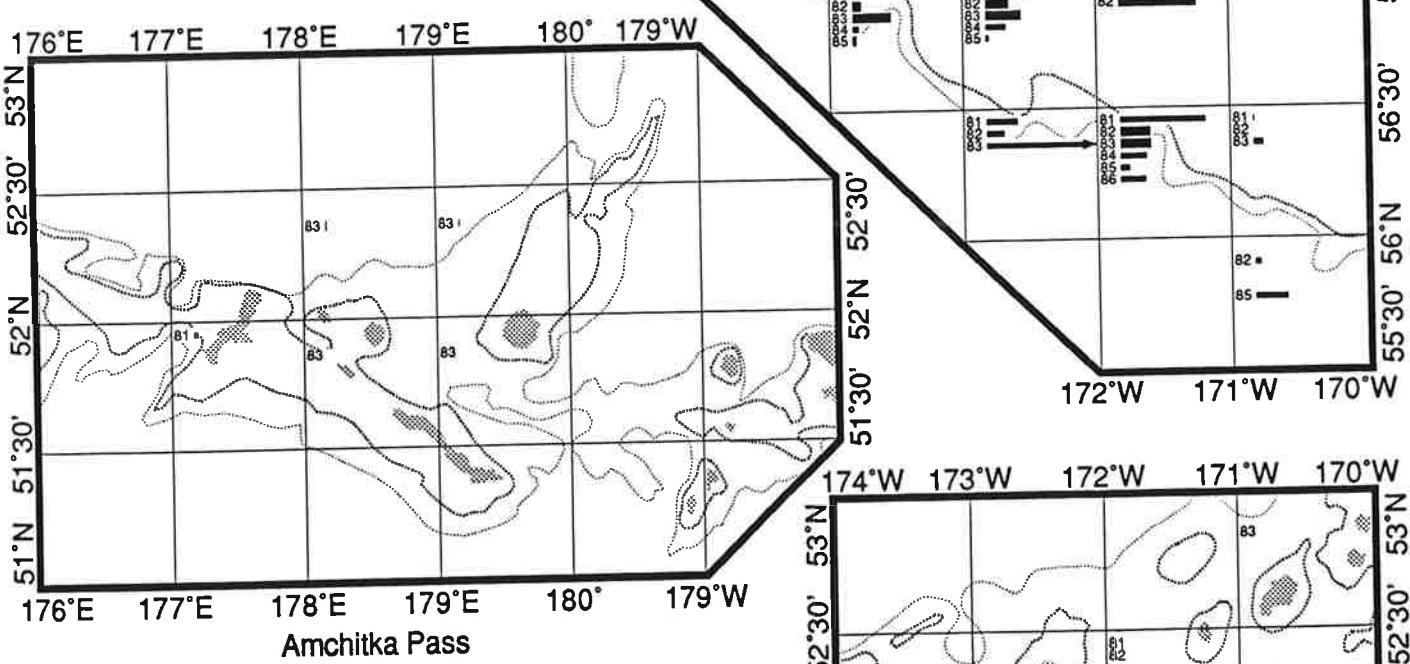


VII-24



03-16-1991 13:35:03

West Bering Sea



December
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

Seguam Pass

IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.

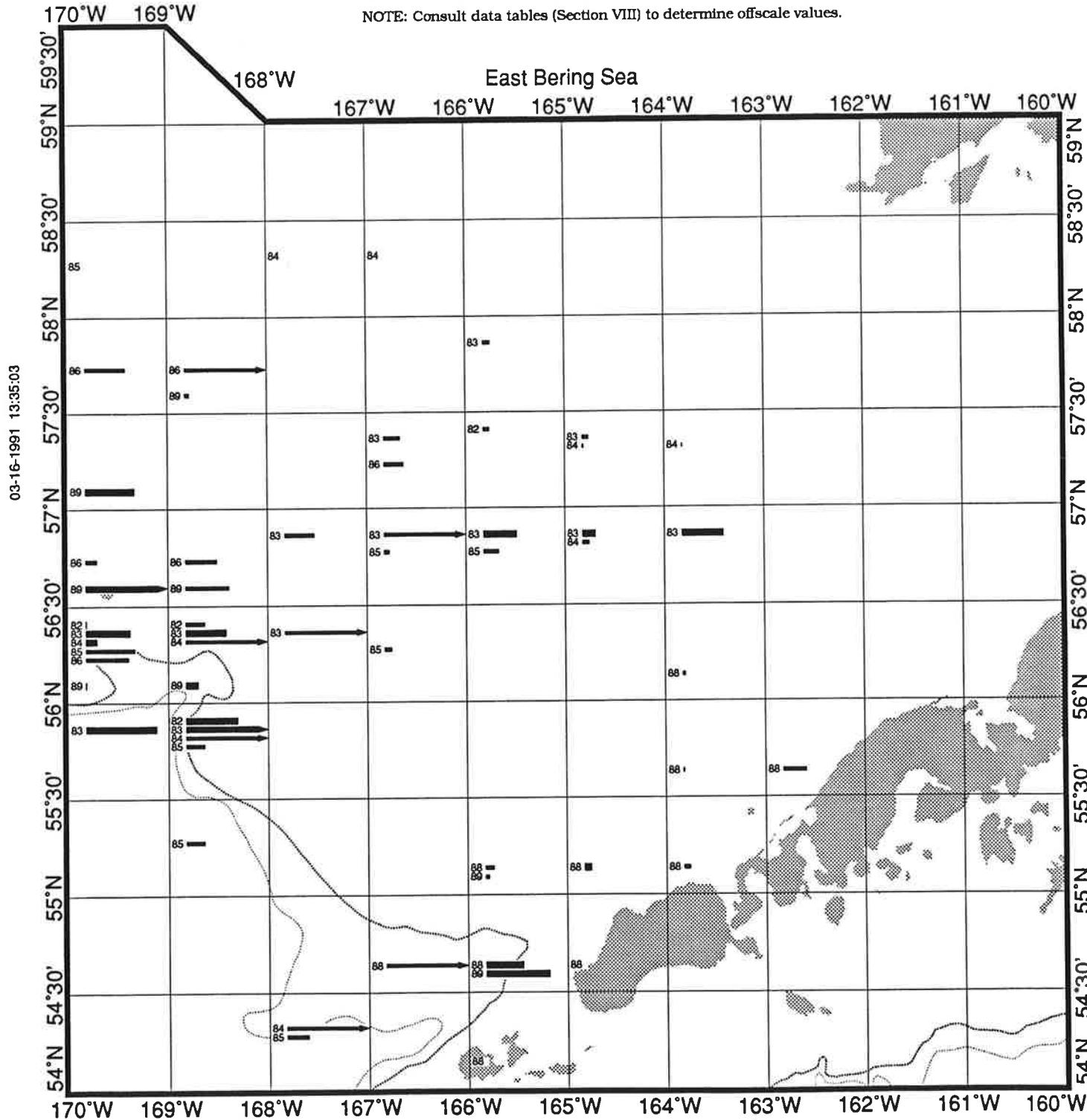
December
MISCELLANEOUS SPECIES
Tanner Crab Bycatch Rate

..... 200 Meter Contour.
..... 1000 Meter Contour.

0 50 SCALE: Individuals per Metric Ton.

- 81 ——— 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
- 83 ——— 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
- 85 ————— 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
- 87 —— 1987 Bycatch Rate Zero.

NOTE: Consult data tables (Section VIII) to determine offscale values.



SECTION VIII

DATA TABLES

Code definitions for data tables in this section.

Block: Six digit number in which the first and last three digits identify the longitude and latitude of the southeast corner of the one-half-by-one-degree block, respectively. For example, the block code 165553 identifies all tows made within the block whose southeast corner lies at 165:00 West longitude and 55:30 North latitude. Blocks lying west of 180:00 longitude (i.e., those identified by East longitude) have longitude codes appropriately greater than 180. For example, the block code 185540 identifies all tows made within the block whose southeast corner lies at 175:00 East longitude and 54:00 North latitude.

Yr: The year in which the tows were observed.

Total Observed Catch (mt): Total catch in metric tons (including prohibited species) from tows observed within the given Month/Block/Year.

Pollock Observed Catch (mt): Pollock catch in metric tons from tows observed within the given Month/Block/Year.

(%): The percentage of the total observed catch that was pollock (i.e., Pollock Catch/Total Catch).

Total CPUE (mt/hr): Total catch in metric tons (including prohibited species) divided by the total number of hours towed. N/A indicates CPUE data were not available.

Total CPUE (mt/tow): Total catch in metric tons (including prohibited species) divided by the total number of tows. N/A indicates CPUE data were not available.

Hal Bycatch Rate: Halibut catch in metric tons divided by total catch (including prohibited species) in metric tons, expressed as a percentage (i.e., times 100).

Her Bycatch Rate: Herring catch in metric tons divided by total catch (including prohibited species) in metric tons, expressed as a percentage (i.e., times 100).

KC Bycatch Rate: King crab catch in numbers divided by total catch (including prohibited species) in metric tons.

TC Bycatch Rate: Tanner crab catch in numbers divided by total catch (including prohibited species) in metric tons.

Tows: Number of tows observed within the given Month/Block/Year. If fewer than five tows were observed, "<5" is given rather than the exact number to preserve the confidentiality of the data.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.1. Data used to prepare CPUE and bycatch rate charts for January.

Block	Yr	Observed		Total CPUEs		Bycatch Rates		KC	TC	Tows
		Catch	MT	MT Per	Hour	Tow	(% by weight)	Hal	Her	(numbers/mt)
163550	88	99.0	5.3	19.8	0.3%	0.0%	0.0	7.7	5	
	89	627.5	6.1	16.1	0.1%	0.0%	0.0	1.2	39	
163553	88	24.5	12.3	N/A	0.2%	0.0%	0.2	2.9	<5	
	89	282.5	5.3	14.9	0.2%	0.0%	0.3	0.4	19	
163563	85	3.1	1.9	N/A	0.5%	0.0%	6.5	0.0	<5	
	89	2,493.9	21.2	30.8	0.0%	0.0%	0.0	0.2	81	
164543	88	26.2	6.3	N/A	0.2%	0.0%	0.0	0.5	<5	
164550	88	399.4	12.2	30.7	0.2%	0.0%	0.0	0.4	13	
	89	8,174.4	13.8	36.3	0.0%	0.0%	0.0	0.2	225	
164553	87	42.5	7.2	N/A	0.0%	0.0%	0.0	0.0	<5	
165543	87	18.9	8.7	N/A	0.5%	0.0%	0.0	2.4	<5	
	88	18.3	4.6	N/A	3.4%	0.0%	0.4	6.8	<5	
165550	88	29.6	3.3	N/A	1.5%	0.0%	0.0	0.3	<5	
165560	88	6.0	1.4	N/A	2.3%	0.0%	0.0	3.0	<5	
165563	85	1.6	0.8	N/A	3.6%	0.0%	0.0	63.8	<5	
166570	85	2.5	0.9	N/A	2.0%	0.0%	0.4	42.8	<5	
168560	81	0.7	0.6	N/A	6.6%	0.0%	0.0	51.4	<5	
169553	84	3.5	1.8	N/A	8.2%	0.0%	0.3	1.1	<5	
171560	82	0.7	0.2	N/A	0.0%	0.0%	0.0	7.1	<5	
	83	3.2	0.2	N/A	0.0%	0.0%	0.3	20.3	<5	
172563	82	1.3	0.2	N/A	0.0%	0.0%	0.8	73.8	<5	
	83	6.1	0.2	1.2	1.8%	0.0%	0.7	14.8	5	
173563	82	1.0	0.2	N/A	0.0%	0.0%	0.0	5.0	<5	
173570	82	3.8	0.2	N/A	1.4%	0.0%	0.0	50.3	<5	
	84	2.0	0.5	N/A	0.4%	0.0%	0.0	0.0	<5	
175580	81	10.4	0.5	N/A	2.4%	0.0%	1.5	130.7	<5	
	82	10.0	1.2	N/A	0.0%	0.0%	2.3	45.1	<5	
175583	81	7.0	0.6	N/A	4.8%	0.0%	3.4	17.1	<5	
176583	81	5.2	0.5	N/A	3.9%	0.0%	0.4	25.8	<5	
	82	2.9	1.0	N/A	4.6%	0.0%	0.0	165.5	<5	
	84	1.2	0.2	N/A	9.4%	0.0%	2.5	25.8	<5	
177583	81	3.5	0.7	N/A	4.1%	0.0%	3.4	5.1	<5	
	83	2.6	0.6	N/A	2.7%	0.0%	10.4	13.8	<5	
177590	81	2.6	0.6	N/A	3.5%	0.0%	0.0	12.3	<5	
	82	4.0	0.8	N/A	13.6%	0.0%	33.0	33.0	<5	
	83	18.9	0.5	2.4	2.6%	0.0%	9.8	23.5	8	
178583	83	1.0	0.1	N/A	0.0%	0.0%	3.0	2.0	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

January
MISCELLANEOUS SPECIES
Data Table

Table VIII.1. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates				
			MT	Hour	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
178590	81	2.0	0.4	N/A	1.7	0.0%	0.0%	8.0	11.0	<5
	83	10.1	0.4	N/A	1.7	1.7%	0.0%	1.9	8.8	6
178593	81	5.7	0.8	N/A	1.0	0.3%	0.0%	0.7	3.5	<5
	82	13.5	1.0	N/A	1.0	0.3%	0.0%	1.5	9.5	<5
	83	33.7	0.4	N/A	2.1	3.0%	0.0%	9.7	7.0	16
178600	81	22.1	0.9	2.8	2.8	5.8%	0.0%	0.3	8.6	8
	82	20.7	1.4	N/A	2.8	0.6%	0.0%	0.8	3.3	<5
	83	69.9	0.5	2.8	2.8	1.2%	0.0%	1.1	2.9	25
178603	81	3.2	0.8	N/A	1.1	3.2%	0.0%	0.3	4.7	<5
179510	82	0.4	0.3	N/A	1.1	1.7%	0.0%	77.5	0.0	<5
179600	81	5.7	0.4	1.1	1.1	6.6%	0.0%	1.2	8.1	5
	82	22.3	1.7	N/A	1.7	1.2%	0.0%	0.6	2.2	<5
	83	18.2	0.2	N/A	1.2	1.2%	0.0%	2.0	37.7	15
179603	81	17.3	0.4	1.4	1.4	4.2%	0.0%	0.8	6.7	12
	82	34.1	1.1	5.7	5.7	3.1%	0.0%	1.1	7.5	6
	83	31.8	0.3	1.7	1.7	1.1%	0.0%	2.5	21.4	19
183513	83	1.5	0.5	N/A	1.5	0.0%	0.0%	12.7	0.0	<5
185520	82	<i>6.7</i>	<i>0.3</i>	<i>1.1</i>	<i>1.1</i>	<i>4.9%</i>	<i>0.0%</i>	<i>1.8</i>	<i>3.0</i>	<i>6</i>
	83	<i>36.0</i>	<i>1.6</i>	<i>N/A</i>	<i>1.6</i>	<i>1.6%</i>	<i>0.0%</i>	<i>0.3</i>	<i>0.0</i>	<i><5</i>

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

February
MISCELLANEOUS SPECIES
Data Table

Table VIII.2. Data used to prepare CPUE and bycatch rate charts for February.

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates				
			MT	Hour	Tow	(% by weight)	(numbers/mt)			
						Hal	Her	KC	TC	Tows
162553	88	121.1	8.3	17.3	0.1%	0.0%	1.9	3.5	7	
162560	88	260.4	9.3	21.7	0.3%	0.0%	2.3	1.2	12	
	89	24,835.1	55.6	34.7	0.0%	0.0%	0.0	0.0	716	
162563	88	29.5	N/A	N/A	0.1%	0.0%	4.6	1.7	<5	
162570	88	0.4	0.7	N/A	0.0%	0.0%	5.4	0.0	<5	
163550	86	36.6	12.9	N/A	0.2%	0.0%	0.3	0.4	<5	
	88	173.1	9.6	28.9	0.3%	0.0%	0.2	0.6	6	
163553	88	85.8	6.5	14.3	0.2%	0.0%	2.6	2.4	6	
	89	533.1	10.9	25.4	0.3%	0.0%	1.2	1.4	21	
163560	88	19.3	15.4	N/A	0.2%	0.0%	0.7	0.3	<5	
	89	11,507.5	44.0	32.6	0.0%	0.0%	0.1	0.0	353	
164543	88	28.3	8.7	N/A	0.9%	0.0%	0.0	1.3	<5	
164550	87	12.6	21.6	N/A	0.0%	0.0%	0.0	0.0	<5	
	88	557.8	9.5	25.4	0.2%	0.0%	0.2	1.6	22	
164570	88	31.0	4.5	N/A	2.4%	0.0%	0.5	23.8	<5	
165543	84	61.3	4.2	N/A	0.2%	0.0%	0.0	6.4	<5	
	87	42.8	5.6	N/A	0.1%	0.0%	0.0	36.8	<5	
165550	87	11.5	2.7	N/A	0.6%	0.0%	0.0	8.4	<5	
	88	18.0	4.1	N/A	30.0%	0.0%	0.0	4.4	<5	
165563	83	1.5	0.7	N/A	0.0%	0.0%	0.7	9.3	<5	
	84	12.6	4.7	N/A	0.0%	0.0%	0.0	7.0	<5	
	85	1.6	1.7	N/A	2.5%	0.0%	0.0	1.9	<5	
	87	25.6	3.0	N/A	1.4%	0.0%	0.0	19.3	<5	
	88	21.2	2.2	N/A	0.4%	0.1%	0.0	2.8	<5	
165570	88	18.4	5.0	N/A	0.6%	0.0%	0.0	18.6	<5	
166560	84	5.5	1.4	N/A	7.7%	0.0%	0.0	6.4	<5	
166563	88	11.0	4.4	N/A	1.6%	0.0%	0.0	41.9	<5	
167533	88	118.4	N/A	N/A	0.0%	0.0%	0.0	0.0	<5	
167540	88	61.5	N/A	N/A	0.0%	0.0%	0.0	0.0	<5	
167560	81	0.4	0.1	N/A	23.6%	0.0%	0.0	1,532.5	<5	
167570	81	0.2	0.1	N/A	0.0%	0.0%	0.0	1,045.0	<5	
	85	0.9	1.5	N/A	2.4%	0.0%	0.0	17.8	<5	
167573	88	2.0	4.0	N/A	0.5%	0.0%	0.0	41.5	<5	
168553	81	0.2	0.1	N/A	15.6%	0.0%	0.0	20.0	<5	
168560	82	0.9	0.5	N/A	9.4%	0.0%	0.0	1.1	<5	
168563	81	11.4	1.4	N/A	2.1%	0.0%	2.0	15.2	<5	
169560	84	66.6	1.6	7.4	2.6%	0.0%	0.0	16.9	9	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

February
MISCELLANEOUS SPECIES
Data Table

Table VIII.2. (Continued.)

Block	Yr	Observed Catch MT	Total CPUES			Bycatch Rates (% by weight)			Bycatch Rates (numbers/mt)		
			MT	Hour	Tow	Hal	Her	KC	TC	Tows	
170560	81	1.3	0.7	N/A		0.5%	0.0%	0.0	852.3	<5	
	84	23.9	2.5	N/A		3.8%	0.0%	0.0	6.5	<5	
171520	82	1.2	1.2	N/A		0.8%	0.0%	6.7	0.0	<5	
172560	83	9.0	1.6	N/A		20.1%	0.0%	9.3	27.1	<5	
172563	81	5.1	2.9	N/A		2.0%	0.0%	0.0	0.0	<5	
	82	5.0	0.8	N/A		7.1%	0.0%	0.0	10.6	<5	
	83	25.3	1.9	N/A		6.6%	0.0%	0.1	0.8	<5	
	84	5.0	2.3	N/A		0.2%	0.0%	0.0	1.6	<5	
173560	82	3.0	0.6	N/A		0.0%	0.0%	0.0	13.0	<5	
173563	82	4.5	0.3	N/A		0.0%	0.0%	0.0	68.9	<5	
	83	34.0	0.8	4.9		0.7%	0.0%	0.5	9.1	7	
173570	82	7.0	0.4	N/A		0.0%	0.0%	0.1	98.0	<5	
	83	31.1	0.9	5.2		1.3%	0.0%	0.5	6.2	6	
174570	83	1.3	0.4	N/A		0.0%	0.0%	0.0	132.3	<5	
175560	83	0.1	0.0	N/A		0.0%	0.0%	0.0	0.0	<5	
175580	82	31.6	0.4	2.1		0.3%	0.0%	0.2	22.3	15	
	83	25.9	0.8	3.7		3.5%	0.0%	2.1	27.1	7	
175583	82	8.7	0.5	N/A		0.0%	0.0%	0.2	29.2	<5	
	83	10.5	0.8	N/A		1.7%	0.0%	0.6	7.7	<5	
176583	82	7.0	0.5	N/A		0.9%	0.0%	1.1	4.9	<5	
	83	44.6	1.0	4.1		1.9%	0.0%	2.0	16.7	11	
177583	81	6.5	0.5	N/A		1.9%	0.0%	9.8	10.9	<5	
	82	8.7	0.7	N/A		0.3%	0.0%	0.5	1.8	<5	
	83	13.2	0.7	N/A		0.8%	0.0%	2.0	26.9	<5	
177590	81	105.2	1.5	5.5		0.6%	0.0%	1.6	4.1	19	
	83	174.2	0.7	3.8		1.4%	0.0%	2.4	16.6	46	
178583	83	27.8	1.1	5.6		0.3%	0.0%	1.4	3.1	5	
178590	81	67.0	1.2	5.6		0.3%	0.0%	1.2	3.3	12	
	83	75.8	0.7	3.6		0.9%	0.0%	2.3	13.6	21	
178593	81	28.2	1.3	N/A		0.2%	0.0%	2.8	13.5	<5	
	82	42.9	0.6	3.3		0.0%	0.0%	0.1	0.8	13	
	83	37.5	0.4	2.3		2.2%	0.0%	22.7	20.1	16	
178600	81	31.9	0.6	3.2		2.5%	0.0%	5.2	144.9	10	
	82	91.3	0.6	3.8		1.2%	0.0%	0.6	2.3	24	
	83	338.0	0.4	2.9		1.0%	0.0%	3.3	38.0	115	
178603	81	7.8	1.4	N/A		0.4%	0.0%	10.3	59.0	<5	
179593	82	18.0	0.5	3.0		0.0%	0.0%	0.7	0.1	6	
	83	6.4	0.7	N/A		0.6%	0.0%	14.2	3.4	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

February
MISCELLANEOUS SPECIES
Data Table

Table VIII.2. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight)			Bycatch Rates (numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows	
179600	81	72.7	1.3	5.2	1.2%	0.0%	0.3	2.4	14	
	82	19.5	0.5	2.8	0.9%	0.0%	0.0	1.7	7	
	83	111.2	0.4	2.5	0.7%	0.0%	5.4	37.1	45	
179603	81	57.1	0.7	2.9	2.7%	0.0%	3.5	26.9	20	
	82	27.5	0.9	4.6	2.8%	0.0%	0.4	6.7	6	
	83	361.7	0.5	3.3	1.6%	0.0%	3.6	45.8	110	
180540	<i>83</i>	<i>4.0</i>	<i>0.6</i>	<i>N/A</i>	<i>0.0%</i>	<i>0.0%</i>	<i>23.0</i>	<i>0.0</i>	<i><5</i>	
185520	<i>83</i>	<i>148.9</i>	<i>0.7</i>	<i>4.3</i>	<i>0.8%</i>	<i>0.0%</i>	<i>0.0</i>	<i>0.9</i>	<i>35</i>	
186520	<i>83</i>	<i>5.2</i>	<i>1.6</i>	<i>N/A</i>	<i>2.0%</i>	<i>0.0%</i>	<i>0.0</i>	<i>0.2</i>	<i><5</i>	
187520	<i>83</i>	<i>9.3</i>	<i>0.8</i>	<i>N/A</i>	<i>1.0%</i>	<i>0.0%</i>	<i>0.3</i>	<i>0.9</i>	<i><5</i>	

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

March
MISCELLANEOUS SPECIES
Data Table

Table VIII.3. Data used to prepare CPUE and bycatch rate charts for March.

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates			Tows
			MT	Hour	Tow	(% by weight) Hal	Her	KC	
159563	86	2.5	2.5	N/A	0.0%	0.0%	4.4	5.2	<5
162553	85	4.3	N/A	N/A	0.1%	0.0%	177.9	19.3	<5
162560	87	108.3	9.0	N/A	0.3%	0.0%	3.2	0.5	<5
	88	159.7	45.6	N/A	0.0%	0.0%	2.2	0.2	<5
162563	88	17.1	9.3	N/A	0.0%	0.0%	0.2	0.1	<5
162570	87	5.4	3.8	N/A	0.1%	0.0%	2.0	2.8	<5
163550	86	23.0	6.4	N/A	1.5%	0.0%	0.3	27.4	<5
163553	86	15.0	5.6	N/A	0.6%	0.0%	2.4	12.9	<5
	88	17.5	8.7	N/A	0.4%	0.0%	0.8	8.1	<5
163560	87	12.1	12.1	N/A	0.5%	0.0%	0.1	1.2	<5
163563	87	248.1	7.7	19.1	0.2%	0.0%	0.1	1.2	13
	88	7.3	3.7	N/A	0.1%	0.0%	0.3	0.3	<5
164543	87	28.8	4.1	N/A	0.1%	0.0%	0.0	0.1	<5
	88	6.1	3.2	N/A	2.4%	0.0%	0.0	19.7	<5
164550	87	71.2	4.7	N/A	0.9%	0.0%	0.0	0.5	<5
	88	55.3	7.0	N/A	1.3%	0.0%	0.0	1.3	<5
164553	87	22.8	N/A	N/A	1.4%	0.2%	0.0	3.6	<5
164560	87	20.5	2.6	N/A	2.9%	0.0%	0.1	4.3	<5
164563	86	0.4	0.2	N/A	0.0%	0.0%	10.0	45.0	<5
	87	6.7	2.7	N/A	0.4%	0.0%	0.9	5.5	<5
165540	88	19.4	6.5	N/A	0.7%	0.0%	0.1	0.3	<5
165543	83	25.6	N/A	N/A	0.4%	0.0%	0.0	0.6	<5
	84	56.0	13.2	N/A	1.3%	0.0%	0.0	148.3	<5
	85	88.7	4.5	9.9	0.9%	0.0%	0.5	9.9	9
	86	191.0	3.9	15.9	0.8%	0.0%	0.0	13.1	12
	87	124.1	4.9	20.7	5.0%	0.0%	0.1	10.4	6
	88	157.6	4.3	14.3	2.4%	0.0%	0.1	8.2	11
165550	87	10.7	2.0	N/A	0.6%	0.0%	0.0	2.5	<5
	88	31.8	3.5	N/A	1.1%	0.0%	0.0	8.0	<5
165560	88	490.1	10.9	24.5	0.3%	0.0%	0.0	3.6	20
165563	83	1.9	0.8	N/A	0.0%	0.0%	0.0	1.1	<5
	86	0.7	0.3	N/A	0.2%	0.0%	2.9	135.7	<5
	87	13.7	3.6	N/A	0.1%	0.0%	0.0	2.3	<5
	88	676.1	6.9	17.3	0.3%	0.0%	0.0	4.9	39
165570	88	2.9	0.8	N/A	0.9%	0.0%	0.0	15.5	<5
166560	83	0.5	0.1	N/A	16.7%	0.0%	0.0	12.0	<5
	88	142.0	7.7	23.7	0.8%	0.0%	0.0	3.1	6

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

March
MISCELLANEOUS SPECIES
Data Table

Table VIII.3. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT	Hour	Tow	(% by weight)		(numbers/mt)		
						Hal	Her	KC	TC	Tows
166563	82	1.5	1.8	N/A		1.0%	0.0%	0.0	20.7	<5
	84	24.0	5.1	N/A		0.3%	0.0%	0.0	1.7	<5
	85	2.8	0.7	N/A		5.4%	0.0%	0.0	50.4	<5
	87	8.9	5.1	N/A		1.8%	0.0%	0.1	21.2	<5
	88	838.6	10.1	21.5		0.1%	0.0%	0.0	10.3	39
166570	83	0.3	0.1	N/A		0.0%	0.0%	0.0	23.3	<5
	88	82.2	9.1	N/A		0.0%	0.0%	0.0	3.8	<5
167553	81	0.4	0.1	N/A		28.2%	0.0%	0.0	705.0	<5
167560	84	9.6	2.5	N/A		1.4%	0.0%	0.0	11.3	<5
	85	1.3	0.9	N/A		29.9%	0.0%	0.0	286.9	<5
167563	82	0.3	0.2	N/A		38.3%	0.0%	0.0	40.0	<5
	84	7.5	2.9	N/A		0.4%	0.0%	0.0	7.5	<5
	85	1.2	1.0	N/A		11.1%	0.0%	0.0	3.3	<5
	86	1.4	1.1	N/A		13.1%	0.0%	0.0	3.6	<5
	88	463.8	12.1	25.8		0.1%	0.0%	0.0	19.5	18
167570	82	1.4	0.3	N/A		1.1%	0.0%	0.7	2.9	<5
	88	113.8	5.5	22.8		0.0%	0.0%	0.0	5.8	5
168550	88	24.4	5.4	N/A		17.2%	0.0%	0.0	1.3	<5
168553	81	24.1	0.5	3.0		5.0%	0.0%	3.4	151.6	8
	83	23.6	0.7	3.4		0.2%	0.0%	0.7	6.1	7
	84	7.1	0.4	N/A		4.2%	0.0%	4.5	33.8	<5
	88	17.9	3.7	N/A		8.0%	0.0%	0.0	1.5	<5
168560	83	17.7	0.9	3.5		0.6%	0.0%	0.6	15.4	5
	84	9.7	2.2	N/A		0.9%	0.0%	0.0	23.4	<5
168563	84	6.1	3.1	N/A		0.0%	0.0%	0.0	23.9	<5
	88	123.7	5.7	20.6		0.0%	0.1%	0.0	2.7	6
168570	82	0.4	0.2	N/A		0.0%	0.0%	10.0	22.5	<5
	88	10.9	3.6	N/A		0.0%	0.0%	0.0	1.6	<5
169553	81	2.6	0.4	N/A		0.8%	0.0%	4.6	128.5	<5
	83	5.4	0.3	N/A		0.2%	0.0%	0.6	3.5	<5
169560	83	25.9	1.3	4.3		0.7%	0.0%	0.0	6.8	6
	84	195.6	1.8	5.6		1.6%	0.0%	0.0	19.3	35
	88	6.0	4.2	N/A		14.6%	0.0%	0.0	67.7	<5
169563	88	14.0	6.5	N/A		0.7%	0.0%	0.0	0.4	<5
169570	88	2.4	0.8	N/A		8.1%	0.0%	0.0	17.6	<5
170560	81	4.5	0.7	N/A		3.8%	0.0%	0.0	92.4	<5
	82	0.8	0.7	N/A		2.9%	0.0%	1.3	11.3	<5
	83	34.4	1.0	4.3		0.2%	0.0%	0.0	4.9	8
	84	133.1	1.6	5.1		2.0%	0.0%	0.0	25.0	26

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

March
MISCELLANEOUS SPECIES
Data Table

Table VIII.3. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Per Hour	Tow	(% by weight)	(numbers/mt)	KC	TC
170563	81	1.0	0.3	N/A	3.6%	0.0%	0.0	95.0	<5
	83	6.9	1.9	N/A	0.8%	0.0%	0.0	1.3	<5
	86	0.4	1.0	N/A	0.0%	0.0%	2.5	112.5	<5
171560	81	8.6	1.0	N/A	1.0%	0.0%	0.0	74.9	<5
	83	5.2	0.3	N/A	0.0%	0.0%	0.0	36.5	<5
171563	81	2.4	0.6	N/A	4.0%	0.0%	0.4	35.4	<5
	83	9.4	0.7	N/A	1.1%	0.0%	0.0	7.3	<5
172513	81	38.9	8.6	N/A	0.0%	0.0%	0.0	0.0	<5
	82	136.1	9.5	15.1	0.0%	0.0%	0.0	0.0	9
172520	82	65.3	195.9	N/A	0.0%	0.0%	0.0	0.0	<5
	88	5.3	1.3	N/A	0.0%	0.0%	2.5	0.0	<5
172523	81	3.9	2.0	N/A	0.0%	0.0%	1.5	6.2	<5
172560	81	0.3	0.3	N/A	4.1%	0.0%	0.0	606.7	<5
172563	81	7.2	0.8	N/A	6.6%	0.0%	0.4	16.8	<5
	82	1.6	0.9	N/A	2.3%	0.0%	0.0	1.3	<5
	83	9.9	0.4	1.7	0.2%	0.0%	0.1	17.3	6
173520	81	122.5	2.0	12.3	0.4%	0.0%	4.9	3.6	10
173523	81	4.1	1.1	N/A	0.0%	0.0%	3.7	9.0	<5
173530	81	5.0	1.5	N/A	0.0%	0.0%	1.4	3.8	<5
173563	81	7.9	0.6	N/A	3.1%	0.0%	0.1	53.2	<5
	82	3.5	0.3	N/A	0.5%	0.0%	0.0	37.1	<5
	83	22.6	0.3	2.5	3.8%	0.0%	3.7	51.2	9
173570	81	2.0	0.4	N/A	2.6%	0.0%	0.0	146.5	<5
	82	6.2	0.2	0.9	0.8%	0.0%	0.3	48.7	7
	83	21.6	0.3	1.4	2.0%	0.0%	1.9	43.5	16
174513	81	0.7	0.5	N/A	0.0%	0.0%	0.0	0.0	<5
174573	81	3.0	1.5	N/A	10.7%	0.0%	0.0	0.0	<5
175570	83	2.4	0.4	N/A	0.5%	0.0%	0.8	14.6	<5
175580	81	65.9	0.9	6.0	0.6%	0.0%	2.2	76.8	11
	82	35.0	0.5	2.9	0.9%	0.0%	0.2	21.7	12
	83	276.1	0.5	2.6	0.8%	0.0%	1.4	18.6	105
	86	7.6	0.3	1.5	2.4%	0.0%	0.1	0.1	5
175583	81	15.2	1.7	N/A	0.3%	4.5%	0.3	79.6	<5
	82	21.3	0.5	2.7	1.0%	0.0%	0.6	12.3	8
	83	121.9	0.6	3.5	0.2%	0.0%	0.4	14.0	35
175590	83	4.0	0.5	N/A	0.0%	0.0%	2.3	3.3	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

MISCELLANEOUS SPECIES
Data Table

Table VIII.3. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
176583	81	134.1	0.9	4.5	0.7%	0.0%	4.8	46.9	30
	82	16.0	0.6	2.3	0.6%	0.0%	0.3	9.9	7
	83	88.1	0.5	2.8	1.2%	0.0%	2.3	16.6	32
177583	81	60.8	1.0	6.1	0.6%	0.0%	6.5	36.5	10
	83	71.6	0.4	2.4	0.8%	0.0%	3.8	37.1	30
	84	2.8	0.6	N/A	0.0%	0.0%	0.4	0.0	<5
177590	81	7.9	1.1	N/A	2.6%	0.0%	10.9	7.7	<5
	82	55.2	0.7	2.5	0.5%	0.0%	1.1	2.6	22
	83	418.2	0.5	3.0	1.3%	0.0%	2.6	12.1	139
178580	83	5.3	0.3	N/A	1.9%	0.0%	2.5	14.3	<5
178583	81	57.8	1.2	7.2	0.4%	0.0%	19.0	63.5	8
	82	6.0	1.5	N/A	0.4%	0.0%	0.2	5.8	<5
	83	162.3	0.4	2.7	0.5%	0.0%	4.9	32.0	61
178590	81	26.9	0.8	4.5	1.0%	0.0%	8.6	10.9	6
	82	137.5	0.6	3.1	0.5%	0.0%	1.6	16.8	45
	83	624.7	0.4	2.7	1.0%	0.0%	4.8	15.0	229
178593	81	13.0	0.6	N/A	0.1%	0.0%	2.4	4.4	<5
	82	85.8	1.1	5.0	0.2%	0.0%	1.9	2.0	17
	83	119.4	0.6	3.0	0.7%	0.0%	9.5	10.9	40
178600	81	6.7	0.5	N/A	0.0%	0.0%	0.3	7.9	<5
	82	102.3	0.6	3.4	0.4%	0.0%	0.5	7.8	30
	83	98.8	0.5	3.3	0.7%	0.0%	1.4	9.8	30
178603	82	6.3	0.6	N/A	0.2%	0.0%	0.2	8.6	<5
179523	83	6.7	1.3	N/A	14.2%	0.0%	5.4	0.0	<5
179533	81	2.4	0.4	N/A	0.0%	0.0%	20.4	0.0	<5
179590	83	2.5	0.4	N/A	2.5%	0.0%	13.2	20.4	<5
179593	81	4.1	0.4	N/A	0.0%	0.0%	0.2	6.8	<5
	82	13.6	0.7	N/A	0.4%	0.0%	1.6	1.3	<5
	83	29.5	0.4	2.3	0.9%	0.0%	2.4	11.2	13
179600	81	7.5	0.5	N/A	0.2%	0.0%	0.5	10.9	<5
	82	49.5	0.5	2.8	0.5%	0.0%	1.7	7.2	18
	83	195.7	0.4	2.6	0.6%	0.0%	5.0	37.5	76
179603	81	2.7	0.4	N/A	0.0%	0.0%	1.5	8.9	<5
	82	58.4	0.7	3.4	0.3%	0.0%	0.8	17.9	17
	83	151.2	0.5	3.2	1.2%	0.0%	3.4	47.6	47
180513	83	62.0	1.5	10.3	0.0%	0.0%	3.4	0.0	6
180520	83	23.5	1.1	N/A	12.1%	0.0%	6.6	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

March
MISCELLANEOUS SPECIES
Data Table

Table VIII.3. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (% by weight) (numbers/mt)			Tows	
			MT	Per Hour	Tow	Hal	Her	KC		
180533	81	2.4	0.8	N/A	0.0%	0.0%	0.0%	9.2	0.0	<5
	83	34.2	0.9	6.8	0.0%	0.0%	0.0%	4.1	0.0	5
180540	81	23.4	0.7	2.3	2.4%	0.0%	0.0%	9.6	0.1	10
	83	44.7	0.7	4.1	0.1%	0.0%	0.0%	3.2	0.1	11
181513	83	53.2	1.5	8.9	0.0%	0.0%	0.0%	3.2	0.1	6
181520	83	166.5	1.5	9.8	0.0%	0.0%	0.0%	1.4	0.0	17
181523	83	21.2	3.0	N/A	0.0%	0.0%	0.0%	0.4	0.0	<5
185520	83	44.8	0.7	4.5	0.7%	0.0%	0.0%	0.1	0.1	10

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. Data used to prepare CPUE and bycatch rate charts for April.

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates			KC	TC	Tows
			Hour	MT Per Tow	(% by weight)	Hal	Her				
159563	81	20.2	5.5	N/A	0.2%	0.0%	33.9	8.5	<5		
159570	87	15.5	6.2	N/A	0.0%	0.0%	0.3	0.6	<5		
160560	84	81.0	26.6	13.5	0.1%	0.0%	8.1	3.1	6		
160563	84	29.6	8.5	N/A	0.3%	0.0%	16.0	13.3	<5		
161560	84	35.2	8.4	N/A	0.1%	0.0%	32.7	14.5	<5		
	85	75.6	9.2	15.1	0.0%	0.0%	7.7	0.7	5		
161563	85	35.6	6.6	N/A	0.1%	0.0%	7.2	0.6	<5		
161580	85	9.4	7.1	N/A	0.7%	0.0%	2.6	0.4	<5		
162553	84	196.4	N/A	17.9	2.1%	0.0%	9.7	39.0	11		
162560	85	25.1	8.6	N/A	0.1%	0.0%	17.5	2.2	<5		
	87	83.9	6.3	12.0	0.6%	0.0%	12.1	0.0	7		
162563	85	17.1	4.3	N/A	0.2%	0.0%	21.4	3.6	<5		
	87	63.7	5.9	12.7	0.7%	0.0%	6.8	3.0	5		
163550	86	122.0	6.1	24.4	0.2%	0.1%	0.0	7.1	5		
	87	7.6	1.5	N/A	0.4%	0.0%	25.5	14.2	<5		
	88	67.8	11.8	N/A	0.4%	0.0%	0.0	0.7	<5		
	89	27.2	54.4	N/A	0.4%	0.0%	0.0	1.9	<5		
163553	85	1.8	0.6	N/A	1.4%	0.0%	119.4	5.6	<5		
	86	222.2	5.0	22.2	0.9%	0.0%	0.0	4.7	10		
163560	83	88.7	N/A	14.8	0.1%	0.0%	8.9	5.2	6		
	87	15.5	2.7	N/A	1.6%	0.0%	4.8	4.5	<5		
163563	81	13.8	1.9	N/A	0.9%	0.0%	3.3	3.1	<5		
	82	135.6	3.5	19.4	1.5%	2.1%	0.4	2.0	7		
	83	3.0	1.8	N/A	0.7%	0.0%	11.7	5.7	<5		
	87	21.0	2.2	N/A	1.2%	0.0%	0.6	0.8	<5		
163570	83	0.6	0.5	N/A	0.3%	0.0%	0.0	1.7	<5		
164543	84	40.3	16.6	8.1	2.8%	0.0%	0.0	17.4	5		
	87	42.8	5.4	N/A	1.0%	0.0%	0.1	0.6	<5		
	88	27.8	6.2	N/A	2.0%	0.0%	0.0	5.4	<5		
164550	86	310.0	6.1	23.8	0.7%	0.0%	0.6	14.6	13		
	88	168.1	8.6	28.0	0.6%	0.0%	0.0	1.8	6		
	89	11.8	3.7	N/A	1.5%	0.0%	0.0	0.0	<5		
164553	88	31.5	4.5	N/A	0.7%	0.0%	0.5	8.5	<5		
164560	88	22.8	7.6	N/A	0.2%	0.0%	0.0	13.2	<5		
164563	82	8.5	1.4	N/A	1.3%	7.5%	0.1	1.2	<5		
164570	83	10.8	4.3	N/A	0.6%	0.0%	2.2	4.4	<5		

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	TC
165543	82	153.4	N/A	9.6	3.3%	0.0%	0.1	0.1	16
	84	187.2	67.3	17.0	0.6%	0.0%	0.0	17.2	11
	88	145.9	6.2	16.2	1.5%	0.0%	0.0	4.3	9
165550	87	16.1	3.6	N/A	0.3%	0.0%	0.1	0.6	<5
	88	20.2	1.9	N/A	2.5%	0.0%	0.0	7.0	<5
165553	88	53.5	3.2	10.7	5.2%	0.0%	0.0	4.3	5
165560	86	41.7	7.1	N/A	0.5%	0.0%	0.0	6.7	<5
	88	1,648.4	5.0	16.5	1.3%	0.0%	0.0	11.8	100
165563	82	5.6	1.3	N/A	6.3%	5.0%	0.9	4.6	<5
	84	9.2	2.0	N/A	0.0%	0.0%	0.0	0.0	<5
	85	4.0	0.9	N/A	0.9%	0.0%	0.0	20.3	<5
	87	17.2	4.0	N/A	0.4%	0.0%	0.0	0.0	<5
	88	254.0	4.4	13.4	0.3%	0.0%	0.0	9.1	19
165570	87	47.1	3.5	N/A	0.8%	0.0%	0.1	4.8	<5
	88	10.1	4.0	N/A	0.0%	0.0%	0.0	13.8	<5
165573	87	44.6	2.1	8.9	1.1%	0.0%	0.0	70.2	5
165580	87	6.7	1.8	N/A	0.0%	0.0%	0.0	250.0	<5
166560	83	45.2	1.8	9.0	9.4%	0.0%	0.0	24.2	5
	84	1.0	0.3	N/A	13.0%	0.0%	0.0	68.0	<5
	88	957.9	6.8	18.1	3.6%	0.0%	0.0	4.0	53
166563	82	10.4	1.1	N/A	4.0%	0.3%	0.1	6.1	<5
	84	6.1	0.5	1.2	2.0%	0.0%	0.0	64.3	5
	85	8.5	1.0	N/A	1.9%	0.0%	0.0	12.1	<5
	86	32.0	2.6	N/A	0.8%	0.0%	0.0	5.3	<5
	87	11.9	2.2	N/A	1.5%	0.0%	0.0	17.4	<5
	88	1,883.2	6.2	17.4	1.5%	0.0%	0.0	6.6	108
166570	83	0.1	0.1	N/A	0.0%	0.0%	0.0	260.0	<5
	87	43.7	2.2	8.7	1.2%	0.0%	0.0	140.0	5
166573	87	88.6	4.0	14.8	0.2%	0.0%	0.0	196.2	6
166580	87	23.6	6.4	N/A	0.0%	0.0%	0.0	266.3	<5
167533	84	15.0	6.1	N/A	6.0%	0.0%	0.0	0.0	<5
167560	83	0.6	0.3	N/A	59.7%	0.0%	0.0	0.0	<5
	84	0.3	0.2	N/A	16.4%	0.0%	0.0	33.3	<5
	86	3.2	1.4	N/A	1.4%	0.0%	0.0	5.9	<5
	88	146.7	7.0	18.3	4.0%	0.0%	0.0	1.1	8
167563	83	5.2	1.4	N/A	0.1%	0.0%	3.5	7.5	<5
	87	5.0	1.6	N/A	11.3%	0.0%	0.0	18.4	<5
	88	3,652.6	5.7	20.1	2.9%	0.0%	0.0	6.1	182

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)					
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
167570	87	267.6	3.3	14.1	0.3%	0.0%	0.0	19.6	19	
	88	15.0	1.6	N/A	0.1%	0.0%	0.1	40.9	<5	
167573	87	319.3	4.1	16.0	0.3%	0.0%	0.1	159.6	20	
167580	87	9.4	1.2	N/A	0.0%	0.0%	0.2	3,269.5	<5	
168553	81	4.0	1.1	N/A	0.0%	0.0%	0.0	0.0	<5	
	82	4.9	N/A	N/A	8.8%	0.0%	0.0	0.0	<5	
	83	1.4	0.2	N/A	18.0%	0.0%	5.7	47.1	<5	
	84	3.8	1.0	N/A	1.4%	0.0%	0.0	0.0	<5	
	86	17.5	1.0	N/A	0.4%	0.0%	0.0	9.3	<5	
168560	83	7.8	0.6	N/A	10.2%	0.0%	2.9	4.4	<5	
	88	40.3	3.5	N/A	8.1%	0.0%	0.0	0.2	<5	
168563	88	1,211.7	6.4	17.8	2.6%	0.0%	0.0	11.3	68	
168570	88	59.1	9.1	N/A	0.2%	0.0%	0.0	15.3	<5	
168573	83	1.1	0.6	N/A	0.3%	0.0%	1.8	9.1	<5	
	87	38.0	2.8	7.6	0.4%	0.0%	0.0	108.8	5	
168580	87	16.6	2.4	N/A	0.2%	0.1%	0.0	419.4	<5	
169520	89	10.8	5.4	N/A	4.2%	0.0%	1.0	0.0	<5	
169553	83	4.9	0.4	1.0	8.3%	0.0%	9.4	7.8	5	
169560	83	11.1	0.5	1.1	4.7%	0.0%	3.7	7.1	10	
	84	1.2	1.1	N/A	13.9%	0.0%	0.0	4.2	<5	
169563	88	327.5	5.6	16.4	1.1%	0.0%	0.0	12.6	20	
169570	82	1.4	0.5	N/A	0.0%	0.0%	0.0	0.0	<5	
	87	18.3	6.1	N/A	0.0%	0.0%	0.0	5.4	<5	
	88	18.9	4.7	N/A	0.5%	0.0%	0.5	0.5	<5	
169573	87	13.6	3.9	N/A	0.0%	0.0%	0.0	12.0	<5	
169580	87	4.0	1.1	N/A	0.0%	0.0%	0.5	672.0	<5	
170520	81	54.9	38.8	N/A	0.0%	0.0%	0.0	0.0	<5	
170560	83	0.5	0.3	N/A	11.0%	0.0%	0.0	0.0	<5	
170563	87	45.3	6.2	N/A	0.2%	0.0%	0.0	9.8	<5	
	88	2.8	2.1	N/A	1.2%	0.0%	0.0	1.8	<5	
171520	89	7.2	7.2	N/A	0.0%	0.0%	0.1	0.0	<5	
171560	81	5.9	1.3	N/A	0.0%	0.0%	0.0	0.0	<5	
	83	6.0	0.3	N/A	0.0%	0.0%	0.0	14.7	<5	
171563	87	7.8	2.0	N/A	0.7%	0.0%	0.0	0.9	<5	
171570	84	1.5	1.8	N/A	0.0%	0.0%	0.0	32.7	<5	
171573	83	3.5	0.4	N/A	1.9%	0.0%	0.6	18.0	<5	
171580	83	2.4	0.3	N/A	0.1%	0.0%	0.0	85.8	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

VIII-16
April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT	Per Hour	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
172513	82	74.6	34.4	N/A		0.0%	0.0%	0.0	0.0	<5
172520	81	144.1	29.3	24.0		0.1%	0.0%	1.9	0.0	6
	82	161.5	N/A	5.8		0.4%	0.0%	0.0	0.0	28
	83	737.8	N/A	20.5		0.5%	0.0%	0.6	0.0	36
	84	346.3	48.7	20.4		0.1%	0.0%	0.0	0.0	17
172523	82	30.0	N/A	5.0		0.6%	0.0%	0.1	0.0	6
172540	84	86.5	91.1	N/A		0.0%	0.0%	0.0	0.0	<5
172560	83	4.6	0.4	N/A		0.6%	0.0%	0.0	13.7	<5
172563	81	14.4	1.3	N/A		0.2%	0.0%	0.3	7.6	<5
	83	8.5	0.2	0.8		3.4%	0.0%	0.4	14.2	11
	88	5.0	1.8	N/A		0.3%	0.0%	0.0	0.8	<5
173520	83	508.1	N/A	18.1		0.7%	0.0%	0.2	0.0	28
	84	66.0	12.3	13.2		0.6%	0.0%	0.0	0.0	5
173563	81	2.5	0.4	N/A		0.0%	0.0%	2.0	186.8	<5
	82	11.9	0.2	0.9		1.9%	0.0%	0.0	60.1	13
	83	9.3	0.4	1.6		0.2%	0.0%	0.1	15.2	6
	86	3.1	0.7	N/A		4.0%	0.0%	0.0	0.0	<5
173570	81	2.6	0.5	N/A		2.6%	0.0%	1.5	50.8	<5
	82	5.5	0.1	0.5		1.6%	0.0%	0.2	71.8	11
	83	4.1	0.1	0.6		0.0%	0.0%	0.5	51.5	7
	86	3.0	0.2	N/A		4.9%	0.0%	0.0	26.0	<5
173573	82	0.4	0.1	N/A		0.0%	0.0%	0.0	0.0	<5
	83	0.7	0.4	N/A		15.0%	0.0%	4.3	0.0	<5
174520	82	45.0	N/A	N/A		0.2%	0.0%	0.0	0.0	<5
174573	81	10.7	1.2	N/A		8.6%	0.0%	1.5	19.8	<5
	86	1.2	0.5	N/A		0.0%	0.0%	0.8	11.7	<5
175580	81	16.7	0.6	2.8		0.9%	0.0%	3.4	57.7	6
	82	12.5	0.5	1.8		1.2%	0.0%	0.5	8.1	7
	83	233.8	0.3	2.1		0.5%	0.0%	2.4	22.0	112
	86	61.1	0.5	2.7		1.0%	0.0%	0.0	0.5	23
175583	81	6.5	0.6	N/A		0.4%	0.0%	0.8	10.0	<5
	82	1.7	0.2	N/A		1.2%	0.0%	0.0	2.9	<5
	83	161.9	0.5	2.7		0.5%	0.0%	1.0	7.7	60
176580	83	5.7	0.4	N/A		1.3%	0.0%	1.6	1.2	<5
176583	81	16.6	0.7	2.8		1.8%	0.0%	7.7	57.2	6
	82	23.9	0.4	1.5		0.4%	0.0%	0.3	5.2	16
	83	194.8	0.3	1.9		0.9%	0.0%	1.6	10.1	105
	86	32.1	2.6	N/A		1.1%	0.0%	0.0	5.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
177583	81	21.1	0.6	3.0	0.7%	0.0%	20.0	158.8	7
	82	4.9	0.7	N/A	0.0%	0.0%	0.2	3.3	<5
	83	92.2	0.3	1.7	0.9%	0.0%	1.3	6.9	55
	86	14.6	1.6	N/A	0.0%	0.0%	0.0	0.1	<5
177590	81	41.7	1.0	3.5	1.1%	0.0%	5.1	7.1	12
	82	45.1	0.5	1.5	0.8%	0.0%	0.2	4.6	30
	83	43.7	0.4	2.2	1.2%	0.0%	3.1	8.3	20
	85	300.9	1.0	5.4	3.3%	0.0%	4.1	2.5	56
	86	103.7	3.8	N/A	0.2%	0.0%	1.2	1.4	<5
177593	82	2.2	1.0	N/A	0.0%	0.0%	0.0	14.1	<5
	83	5.9	0.5	N/A	1.1%	0.0%	0.0	6.4	<5
	86	37.6	3.2	N/A	0.3%	0.0%	1.2	0.3	<5
178580	83	2.6	0.2	N/A	0.0%	0.0%	1.9	1.9	<5
178583	81	61.2	0.8	4.7	0.2%	0.0%	0.4	18.7	13
	82	4.3	0.2	N/A	0.9%	0.0%	0.9	7.2	<5
	83	165.0	0.3	1.6	0.4%	0.0%	2.0	2.3	106
	85	20.3	0.7	4.1	0.2%	0.0%	0.5	0.5	5
178590	81	129.0	0.8	4.3	1.3%	0.0%	4.3	15.6	30
	82	51.8	0.4	1.5	0.4%	0.0%	0.2	6.9	35
	83	274.3	0.3	1.6	0.6%	0.0%	3.4	3.5	167
	85	272.9	0.9	5.1	2.1%	0.0%	2.4	5.2	54
	86	33.5	1.3	5.6	0.1%	0.0%	1.3	15.9	6
178593	81	90.1	0.9	3.9	0.5%	0.0%	1.7	8.7	23
	82	10.9	0.5	2.2	0.0%	0.0%	0.2	16.5	5
	83	39.6	0.6	2.5	3.3%	0.0%	36.1	25.2	16
	85	220.6	0.9	5.8	0.7%	0.0%	1.7	9.2	38
	86	48.0	1.9	9.6	0.2%	0.0%	3.4	31.3	5
178600	81	50.3	0.6	2.8	0.7%	0.0%	6.2	18.8	18
	82	481.7	0.3	2.2	0.1%	0.0%	0.2	7.5	217
	83	52.9	0.3	2.0	0.8%	0.0%	1.2	39.9	26
	85	693.7	0.8	5.2	1.3%	0.0%	1.1	9.4	134
	86	370.3	1.3	8.4	0.6%	0.0%	0.3	19.1	44
178603	81	15.0	2.5	N/A	5.5%	0.0%	34.1	1.9	<5
	82	6.8	0.2	1.4	0.0%	0.0%	0.3	2.8	5
	85	4.2	0.8	N/A	0.3%	0.0%	0.2	10.7	<5
179523	84	339.8	131.5	37.8	0.6%	0.0%	0.1	0.0	9
179593	81	9.0	N/A	N/A	0.4%	0.0%	0.9	9.1	<5
	83	2.0	0.5	N/A	1.9%	0.0%	0.0	0.5	<5
	85	19.6	1.2	N/A	1.1%	0.0%	0.1	0.5	<5
	86	4.2	1.3	N/A	0.0%	0.0%	0.0	8.1	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

April
MISCELLANEOUS SPECIES
Data Table

Table VIII.4. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (numbers/mt)				
			MT	Hour	Tow	(% by weight) Hal	Her	KC	TC
179600	81	121.8	0.7	3.8	0.2%	0.0%	1.4	36.0	32
	82	82.3	0.3	1.8	0.2%	0.0%	0.2	10.4	47
	83	46.5	0.4	2.3	0.1%	0.0%	1.4	71.7	20
	85	238.8	0.9	4.9	1.0%	0.0%	4.4	7.6	49
	86	127.6	1.6	10.6	0.2%	0.0%	1.7	10.9	12
179603	81	52.2	0.6	3.3	0.0%	0.0%	4.9	47.5	16
	82	459.5	0.3	2.2	0.1%	0.0%	0.2	11.7	207
	83	71.3	0.4	2.2	0.1%	0.0%	0.7	50.4	32
	85	287.8	0.9	5.3	1.0%	0.0%	0.1	7.2	54
180510	84	1,253.2	32.7	16.3	0.0%	0.0%	0.0	0.0	77
180513	83	54.1	0.9	6.8	0.0%	0.0%	2.1	0.0	8
180520	83	25.3	1.7	N/A	0.0%	0.0%	1.0	0.1	<5
180533	82	12.0	4.4	N/A	0.0%	0.0%	2.4	0.0	<5
180540	81	8.0	0.9	N/A	0.0%	0.0%	1.1	0.0	<5
	82	41.2	0.5	2.0	0.0%	0.0%	4.1	0.0	21
181510	83	4.5	0.8	N/A	0.0%	0.0%	1.3	0.0	<5
	84	687.3	36.8	20.8	0.0%	0.0%	0.0	0.0	33
181513	83	52.1	0.7	4.7	0.0%	0.0%	1.5	0.1	11
181520	83	176.3	1.0	6.8	0.0%	0.0%	2.9	0.1	26
181523	83	3.5	0.7	N/A	0.0%	0.0%	14.3	0.6	<5
182513	84	29.8	20.1	N/A	0.0%	0.0%	0.0	0.0	<5
183520	82	1.3	0.4	N/A	0.0%	0.0%	20.8	0.0	<5
184513	81	1.2	0.3	N/A	0.0%	0.0%	0.8	0.0	<5
184520	81	16.7	6.3	2.8	0.0%	0.0%	1.3	0.0	6
185520	81	19.3	3.3	1.6	1.4%	0.0%	0.8	0.0	12
	82	3.3	0.4	N/A	0.4%	0.0%	15.2	0.0	<5
	83	10.3	1.0	N/A	6.1%	0.0%	5.3	1.1	<5
187520	83	0.2	0.2	N/A	1.3%	0.0%	325.0	0.0	<5
188523	82	3.5	0.5	N/A	0.0%	0.0%	16.3	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries
in Sections III-VII.

MISCELLANEOUS SPECIES
Data Table

Table VIII.5. Data used to prepare CPUE and bycatch rate charts for May.

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT	Hour	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
158573	83	41.1	2.6	N/A	0.0	0.0%	0.0%	6.0	0.0	<5
159573	83	49.7	N/A	9.9	0.0	0.0%	0.0%	0.0	0.0	5
160560	81	33.5	N/A	N/A	3.3	0.0%	52.4	39.7	<5	
	82	323.6	N/A	13.5	0.3	0.0%	21.8	2.0	24	
160563	82	146.6	N/A	14.7	0.1	0.0%	7.2	0.7	10	
	83	32.7	N/A	N/A	0.1	0.0%	16.1	4.4	<5	
160570	85	6.8	2.8	N/A	0.7	0.0%	1.9	2.9	<5	
161560	88	3.2	3.2	N/A	8.8	0.3%	10.4	1.3	<5	
161563	82	132.0	N/A	12.0	0.1	0.0%	5.9	1.0	11	
161570	85	8.2	2.1	N/A	2.2	0.0%	29.4	4.4	<5	
162560	82	65.3	N/A	N/A	0.0	0.0%	0.2	0.1	<5	
	83	29.2	N/A	N/A	0.0	0.0%	0.0	0.0	<5	
	85	185.4	5.1	20.6	0.9	0.0%	37.1	9.7	9	
162563	85	9.5	2.4	N/A	13.0	0.0%	80.5	2.5	<5	
	86	44.5	4.5	N/A	0.6	0.0%	4.2	0.5	<5	
162570	86	13.9	4.3	N/A	1.5	0.0%	1.2	4.2	<5	
163550	86	54.0	8.3	N/A	2.8	0.0%	16.2	8.0	<5	
	87	42.9	7.5	N/A	2.3	0.0%	2.6	0.5	<5	
	88	290.3	7.9	32.3	1.0	0.0%	0.2	25.1	9	
163553	88	594.2	5.9	27.0	1.2	0.0%	0.4	9.6	22	
163563	82	52.0	3.5	N/A	0.3	0.1%	0.0	0.0	<5	
	85	10.5	1.5	N/A	0.3	0.0%	2.0	0.8	<5	
	86	73.6	3.0	10.5	0.9	0.1%	2.4	2.6	7	
163570	86	166.2	3.6	12.8	2.5	0.3%	0.8	11.4	13	
164543	87	110.2	3.5	18.4	4.1	0.0%	0.4	13.3	6	
	88	33.2	8.3	N/A	1.8	0.0%	0.0	1.7	<5	
164550	82	265.0	N/A	33.1	0.0	0.0%	0.0	0.0	8	
	86	12.0	N/A	N/A	2.0	0.0%	13.9	8.3	<5	
	88	623.0	7.9	29.7	1.4	0.0%	0.1	10.5	21	
164553	88	194.3	4.7	24.3	1.7	0.0%	0.6	3.1	8	
164563	82	77.5	3.3	15.5	0.7	0.3%	0.2	1.7	5	
164570	83	3.8	2.1	N/A	0.3	0.0%	3.4	17.1	<5	
	86	15.5	2.9	N/A	2.5	0.1%	1.4	14.1	<5	
165543	82	78.1	N/A	6.0	1.2	0.0%	0.0	0.3	13	
	87	39.8	3.6	N/A	6.4	0.0%	0.0	15.2	<5	
	88	146.0	3.6	18.3	5.1	0.0%	0.8	16.2	8	
165550	88	122.0	6.4	N/A	1.6	0.0%	0.0	0.6	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Per Hour	Tow	(% by weight)	(numbers/mt)	KC	TC
165560	87	2.2	0.6	N/A	6.3%	0.0%	0.0	48.6	<5
165563	82	26.3	2.3	N/A	0.8%	0.2%	0.0	4.4	<5
165570	82	3.1	1.7	N/A	2.2%	2.9%	12.6	1.3	<5
	86	3.5	1.8	N/A	2.1%	0.0%	0.3	85.1	<5
	88	52.2	3.1	N/A	0.3%	0.0%	0.2	10.8	<5
165573	87	22.8	1.9	N/A	1.0%	0.2%	0.0	157.6	<5
	88	18.7	4.0	N/A	0.4%	0.1%	0.0	4.9	<5
165580	84	0.3	1.2	N/A	5.3%	0.0%	0.0	516.7	<5
	85	2.6	2.6	N/A	0.0%	0.0%	0.4	0.0	<5
166540	87	12.3	2.3	N/A	0.5%	0.0%	0.0	0.0	<5
166550	87	2.4	N/A	N/A	7.8%	0.0%	0.0	20.4	<5
166560	84	67.4	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
166563	84	1.1	0.6	N/A	75.1%	0.0%	0.9	241.8	<5
	88	22.5	2.3	N/A	11.7%	0.0%	0.0	8.3	<5
166570	82	5.7	1.3	N/A	0.6%	3.9%	1.6	33.9	<5
	84	2.5	0.8	N/A	19.2%	0.0%	1.2	27.2	<5
	87	13.3	N/A	N/A	0.7%	0.0%	0.0	576.2	<5
166573	82	0.6	0.2	N/A	6.5%	0.0%	0.0	0.0	<5
	83	0.9	0.6	N/A	1.1%	0.0%	0.0	82.2	<5
	85	10.4	2.6	N/A	0.3%	0.0%	0.1	1.2	<5
	86	1.5	1.5	N/A	3.7%	0.0%	0.0	46.0	<5
166580	83	6.4	0.8	N/A	0.7%	0.0%	0.0	52.8	<5
	85	6.7	1.5	N/A	0.0%	0.0%	0.0	3.0	<5
	87	14.0	2.8	N/A	2.4%	0.4%	0.1	30.0	<5
	88	14.1	3.1	N/A	0.5%	1.8%	0.0	2.0	<5
167560	84	135.3	3.4	22.6	0.0%	0.0%	0.0	0.0	6
167563	84	63.5	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
	88	9.2	2.8	N/A	4.0%	0.0%	0.0	38.0	<5
167570	82	0.9	0.6	N/A	0.3%	0.0%	0.0	0.0	<5
	87	61.1	2.7	N/A	0.3%	0.0%	0.0	63.7	<5
167573	82	2.0	0.2	N/A	1.2%	0.0%	0.0	4.0	<5
	83	0.7	0.3	N/A	0.9%	0.0%	0.0	28.6	<5
	87	261.8	2.9	14.5	0.8%	0.1%	0.0	456.9	18
167580	82	1.0	0.3	N/A	0.8%	0.0%	0.0	2.0	<5
	83	3.2	0.4	N/A	2.3%	0.0%	0.6	108.8	<5
	87	275.3	3.4	14.5	0.5%	0.2%	0.1	263.1	19
	88	33.5	2.6	N/A	0.0%	0.7%	0.0	24.7	<5
167583	87	20.4	2.4	N/A	0.5%	0.0%	0.2	39.4	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
168553	81	9.2	0.5	N/A	0.2%	0.0%	0.1	15.5	<5
	82	15.8	0.5	1.3	1.0%	0.0%	1.1	6.6	12
	83	12.3	0.2	0.8	0.2%	0.0%	5.0	18.8	16
	84	21.7	0.3	2.4	5.6%	0.0%	8.8	61.2	9
	85	66.0	0.4	1.9	0.7%	0.0%	4.2	15.4	34
168560	81	6.1	0.6	N/A	0.0%	0.0%	13.6	29.2	<5
	82	0.9	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	83	24.2	0.4	1.7	2.8%	0.0%	5.0	11.4	14
	84	47.3	0.4	2.4	3.9%	0.0%	7.5	19.0	20
	85	26.7	0.5	2.4	1.1%	0.0%	5.2	5.6	11
	89	25.0	3.6	N/A	0.4%	0.0%	0.0	4.2	<5
168563	88	94.3	2.9	11.8	3.0%	0.0%	0.0	71.8	8
168570	88	23.2	2.2	N/A	0.0%	0.0%	0.0	19.0	<5
168573	82	29.2	2.0	N/A	1.0%	0.4%	0.1	2.2	<5
	87	226.5	4.2	22.7	0.4%	0.3%	0.1	564.0	10
	88	12.3	N/A	N/A	0.0%	0.0%	0.0	87.1	<5
168580	87	243.2	3.6	17.4	0.3%	0.1%	0.0	541.9	14
	88	11.1	5.1	N/A	0.0%	0.9%	0.2	38.7	<5
168583	87	62.9	3.0	12.6	0.4%	2.5%	0.0	11.4	5
169553	81	3.3	0.6	N/A	0.0%	0.0%	0.0	19.4	<5
	83	4.3	N/A	N/A	0.4%	0.0%	7.7	15.3	<5
	84	1.5	0.2	N/A	0.0%	0.0%	2.7	15.3	<5
	85	7.7	0.3	1.5	0.0%	0.0%	3.1	16.0	5
169560	82	0.8	0.2	N/A	6.3%	0.0%	0.0	0.0	<5
	83	21.0	0.3	0.8	8.5%	0.0%	5.9	7.1	26
	84	10.0	0.3	1.7	12.7%	0.0%	9.8	57.7	6
	85	11.8	0.3	1.5	6.0%	0.0%	22.9	21.9	8
169563	87	9.0	2.0	N/A	0.9%	0.0%	6.0	39.1	<5
	88	102.9	5.1	17.2	1.1%	0.0%	0.0	4.8	6
169570	81	28.0	2.5	N/A	0.1%	0.0%	2.8	22.8	<5
	82	39.0	2.6	N/A	0.3%	1.0%	1.0	6.6	<5
169580	86	1.5	1.5	N/A	0.2%	0.7%	0.0	212.7	<5
170560	81	3.5	1.5	N/A	0.0%	0.0%	0.0	0.0	<5
	83	8.0	0.7	N/A	0.0%	0.0%	0.8	3.0	<5
170563	84	541.6	4.8	31.9	0.1%	0.0%	0.0	0.1	17
170573	83	0.9	0.2	N/A	2.5%	0.0%	5.6	90.0	<5
170580	81	7.1	2.1	N/A	0.1%	0.1%	0.3	28.2	<5
	83	3.0	0.3	N/A	0.7%	0.0%	0.7	81.7	<5
	86	2.1	2.1	N/A	0.0%	10.0%	0.0	1,487.6	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates				
			MT	Hour	Tow	(% by weight) Hal	Her	KC	TC	Tows
170583	83	0.6	0.3	N/A		0.1%	0.0%	0.0	165.0	<5
171520	82	122.4	40.8	15.3		0.2%	0.0%	0.0	0.0	8
171523	84	6.8	3.7	N/A		0.4%	0.0%	0.1	0.0	<5
171530	84	5.8	3.3	N/A		0.1%	0.0%	0.0	0.0	<5
171560	81	31.8	0.7	2.9		1.7%	0.0%	0.6	6.0	11
	82	4.7	0.2	N/A		0.0%	0.0%	0.2	11.9	<5
	83	29.6	0.4	1.9		0.9%	0.0%	2.0	27.4	16
	84	2.7	0.2	N/A		0.9%	0.0%	0.4	21.9	<5
171563	82	1.8	0.4	N/A		3.6%	0.0%	0.0	0.6	<5
	83	1.3	0.2	N/A		0.0%	0.0%	1.5	162.3	<5
	84	111.3	6.3	N/A		0.1%	0.0%	0.0	0.6	<5
	88	29.3	9.8	N/A		0.0%	0.0%	0.0	0.0	<5
171573	83	0.6	0.3	N/A		5.5%	0.0%	3.3	143.3	<5
171580	83	1.6	0.3	N/A		0.0%	0.0%	1.3	16.3	<5
172520	81	134.3	47.4	26.9		1.7%	0.0%	0.0	0.0	5
	82	655.8	N/A	15.6		0.1%	0.0%	0.0	0.0	42
	83	1,909.8	N/A	18.7		0.4%	0.0%	0.0	0.0	102
	84	4,184.7	51.4	16.2		0.1%	0.0%	0.0	0.0	258
	86	3,174.0	13.9	21.6		0.1%	0.0%	0.0	0.0	147
	87	737.2	7.9	24.6		0.1%	0.0%	0.0	0.0	30
172523	82	194.8	N/A	17.7		0.1%	0.0%	0.0	0.0	11
	84	53.0	27.2	N/A		0.1%	0.0%	0.0	0.0	<5
172560	81	11.2	0.7	N/A		1.1%	0.0%	1.3	8.1	<5
	83	5.0	0.2	N/A		1.1%	0.0%	2.4	49.8	<5
172563	81	34.9	0.6	3.2		2.5%	0.0%	1.2	8.8	11
	82	17.1	0.3	1.1		1.3%	0.0%	0.4	15.3	15
	83	20.0	0.3	1.3		0.2%	0.0%	2.5	25.7	15
	84	1.3	0.2	N/A		0.0%	0.0%	0.0	12.3	<5
	85	8.3	0.7	N/A		7.1%	0.0%	0.7	0.4	<5
	88	89.3	N/A	N/A		0.0%	0.0%	0.0	0.0	<5
173520	82	930.5	N/A	13.5		0.2%	0.0%	0.0	0.0	69
	83	1,836.7	N/A	20.4		0.4%	0.0%	0.0	0.0	90
	84	353.3	31.3	16.1		0.1%	0.0%	0.0	0.0	22
173523	84	15.8	5.3	N/A		0.3%	0.0%	0.0	0.0	<5
173560	82	1.8	0.3	N/A		0.2%	0.0%	0.0	1.1	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates			
		Catch MT	Hour	MT Per Tow	(% by weight)	(numbers/mt)			
					Kal	Her	KC	TC	
173563	81	42.5	0.6	3.0	0.8%	0.0%	0.7	30.2	14
	82	40.9	0.2	1.0	0.3%	0.0%	0.2	39.6	41
	83	14.8	0.2	0.8	0.0%	0.0%	4.5	95.5	18
	84	9.0	0.2	1.5	0.2%	0.0%	0.8	76.9	6
	85	10.8	0.7	N/A	2.1%	0.0%	0.2	3.7	<5
173570	81	49.5	0.7	3.3	1.3%	0.0%	2.1	15.6	15
	82	57.2	0.2	1.2	0.2%	0.0%	0.2	26.5	46
	83	14.4	0.2	0.8	0.6%	0.0%	1.9	55.8	19
	84	9.1	0.2	1.5	0.1%	0.0%	0.7	82.4	6
	85	21.1	0.9	4.2	1.1%	0.0%	1.2	6.4	5
173573	81	3.5	1.1	N/A	0.0%	0.0%	16.6	22.3	<5
	82	2.8	0.3	N/A	0.0%	0.0%	0.0	6.4	<5
174513	81	1.3	1.2	N/A	1.4%	0.0%	0.0	0.0	<5
174520	84	225.9	123.2	22.6	0.1%	0.0%	0.0	0.0	10
174563	82	0.8	0.1	N/A	0.3%	0.0%	0.0	31.3	<5
174570	82	1.7	0.3	N/A	0.0%	0.0%	0.6	0.0	<5
174573	81	5.9	0.9	N/A	1.8%	0.0%	3.7	9.8	<5
	82	1.4	0.3	N/A	0.0%	0.0%	4.3	12.9	<5
	83	2.5	0.3	N/A	0.0%	0.0%	6.0	16.4	<5
174580	81	67.1	0.7	3.1	1.1%	0.0%	2.4	21.7	22
	83	47.0	0.4	1.9	0.4%	0.0%	0.6	12.1	25
	85	45.2	0.7	3.2	4.0%	0.0%	0.8	9.6	14
174583	81	29.4	0.9	3.7	0.2%	0.0%	1.6	19.6	8
	83	13.4	0.3	1.5	0.5%	0.0%	0.4	16.1	9
	85	32.2	0.7	3.6	2.2%	0.0%	0.1	7.4	9
175580	81	23.3	0.6	3.3	0.1%	0.0%	2.6	17.7	7
	82	27.7	0.5	2.3	0.4%	0.0%	0.3	4.1	12
	83	53.2	0.2	1.2	0.2%	0.0%	0.8	27.3	46
	84	5.6	0.6	N/A	0.0%	0.0%	0.0	18.9	<5
	85	120.9	0.7	3.6	1.1%	0.0%	0.0	6.2	34
	86	6.3	0.6	N/A	0.8%	0.0%	0.0	0.5	<5
175583	81	5.1	0.4	N/A	0.7%	0.0%	4.5	43.3	<5
	82	5.0	0.4	N/A	0.3%	0.0%	0.2	6.4	<5
	83	30.8	0.3	1.5	1.9%	0.0%	0.5	11.1	20
	85	99.6	0.8	4.0	1.2%	0.0%	0.1	2.7	25
175590	85	8.3	0.8	N/A	0.0%	0.0%	0.1	1.7	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Hour	Tow	(% by weight)	(numbers/mt)	KC	TC
176583	81	16.2	0.5	2.3	0.1%	0.0%	70.3	93.4	7
	82	40.6	0.3	1.6	0.1%	0.0%	0.2	3.3	26
	83	51.8	0.2	1.3	0.5%	0.0%	5.3	15.5	41
	85	133.5	0.7	3.4	0.9%	0.0%	0.1	3.2	39
176590	85	1.6	0.3	N/A	0.4%	0.0%	0.0	86.3	<5
177580	83	1.1	0.2	N/A	0.0%	0.0%	2.7	1.8	<5
177583	81	17.6	0.7	N/A	0.6%	0.0%	3.4	1.9	<5
	82	30.5	0.3	1.6	0.0%	0.0%	0.9	14.5	19
	83	48.8	0.2	1.2	0.3%	0.0%	6.0	28.5	42
	85	56.1	0.6	3.3	0.3%	0.0%	0.5	2.9	17
177590	81	13.1	1.0	N/A	0.5%	0.0%	3.1	7.4	<5
	82	28.6	0.6	1.7	0.1%	0.0%	1.5	27.0	17
	83	76.9	0.3	1.3	1.0%	0.0%	4.0	22.1	58
	85	369.6	0.6	3.6	0.5%	0.0%	2.1	7.2	104
177593	82	1.6	0.3	N/A	0.0%	0.0%	3.1	178.1	<5
	83	3.7	0.4	N/A	0.5%	0.0%	0.3	24.9	<5
	85	113.9	0.9	5.4	0.7%	0.0%	5.1	6.8	21
177603	83	0.4	0.1	N/A	3.5%	0.0%	0.0	0.0	<5
178580	83	4.3	N/A	N/A	0.0%	0.0%	0.7	19.1	<5
	85	3.2	0.5	N/A	0.2%	0.0%	0.0	0.0	<5
178583	81	32.1	0.6	3.6	0.5%	0.0%	19.4	58.3	9
	82	63.0	0.2	1.5	0.1%	0.0%	3.3	24.1	41
	83	113.3	0.2	1.3	0.8%	0.0%	3.3	46.5	87
	85	220.1	0.5	3.0	0.6%	0.0%	1.6	11.7	73
178590	81	43.9	0.6	3.1	0.9%	0.0%	8.2	25.6	14
	82	68.2	0.3	1.5	0.1%	0.0%	1.2	7.2	46
	83	119.7	0.2	1.4	0.3%	0.0%	3.9	14.2	85
	85	92.4	0.7	3.4	0.9%	0.0%	2.4	12.7	27
178593	81	15.6	0.8	N/A	0.8%	0.0%	4.4	18.7	<5
	82	39.0	0.3	1.6	0.3%	0.0%	0.6	5.3	24
	83	43.6	0.3	1.5	0.7%	0.0%	12.1	17.7	29
	85	318.4	0.7	3.8	1.0%	0.0%	4.1	32.0	83
178600	81	18.0	0.5	2.6	2.8%	0.0%	3.4	15.7	7
	82	284.5	0.2	1.4	0.1%	0.0%	0.9	8.4	204
	83	376.6	0.3	1.7	0.8%	0.0%	2.6	15.1	222
	85	280.5	0.7	3.5	1.4%	0.0%	2.6	39.8	80
	86	29.1	1.0	4.9	0.3%	0.0%	2.4	3.5	6

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates			
			MT Per		Tow	(% by weight)		(numbers/mt)	
			Hour	Tow		Hal	Her	KC	TC
178603	82	5.1	0.2	N/A	0.4%	0.0%	0.2	2.5	<5
	83	19.6	0.4	2.2	1.2%	0.0%	2.8	11.9	9
	85	2.2	0.6	N/A	0.3%	0.0%	0.0	0.5	<5
179510	87	110.5	5.1	15.8	0.0%	0.0%	0.0	0.0	7
179520	83	10.3	0.7	N/A	0.4%	0.0%	1.3	0.3	<5
	84	411.7	40.1	22.9	0.0%	0.0%	0.0	0.0	18
	87	36.2	14.5	N/A	0.0%	0.0%	0.0	0.0	<5
179523	83	41.4	0.9	4.1	0.2%	0.0%	1.0	0.0	10
	84	2,992.4	38.1	23.9	0.1%	0.0%	0.0	0.0	125
	87	4,333.9	13.9	33.1	0.0%	0.0%	0.0	0.0	131
179590	82	1.4	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	83	0.6	0.1	N/A	0.0%	0.0%	0.0	8.3	<5
179593	82	12.6	0.4	2.5	0.0%	0.0%	0.2	11.6	5
	83	7.8	0.3	1.6	0.0%	0.0%	0.0	0.9	5
	85	59.6	0.7	4.3	0.4%	0.0%	7.8	4.9	14
	86	10.4	1.3	N/A	0.0%	0.0%	0.0	0.4	<5
179600	81	11.2	0.5	N/A	0.1%	0.0%	1.9	31.2	<5
	82	101.9	0.2	1.3	0.1%	0.0%	0.2	10.2	76
	83	128.8	0.3	1.9	0.2%	0.0%	3.7	97.1	67
	85	256.4	0.7	3.9	0.7%	0.0%	8.3	43.5	66
179603	81	4.6	0.3	N/A	1.5%	0.0%	7.0	22.6	<5
	82	225.2	0.2	1.3	0.2%	0.0%	0.6	20.7	180
	83	443.9	0.3	1.9	0.8%	0.0%	2.6	39.3	233
	85	49.6	0.9	4.1	1.1%	0.0%	4.0	137.1	12
	86	42.5	1.1	6.1	0.1%	0.0%	0.2	0.3	7
180510	81	7.7	2.0	N/A	0.6%	0.0%	0.3	0.0	<5
	84	332.8	19.0	18.5	0.1%	0.0%	0.0	0.0	18
	87	829.5	12.1	33.2	0.0%	0.0%	0.0	0.0	25
180513	81	1.0	0.5	N/A	0.0%	0.0%	3.0	0.0	<5
	83	268.7	1.7	11.2	0.0%	0.0%	5.8	0.4	24
180520	81	1.7	0.3	N/A	1.9%	0.0%	5.3	0.0	<5
	83	398.0	1.2	7.7	0.0%	0.0%	2.4	0.0	52
	84	115.7	37.3	19.3	0.0%	0.0%	0.0	0.0	6
180523	83	9.0	0.5	N/A	0.3%	0.0%	1.2	0.2	<5
	84	126.1	17.3	25.2	0.0%	0.0%	0.0	0.0	5
180533	83	1.6	0.5	N/A	0.0%	0.0%	0.0	0.0	<5
180540	83	1.4	0.3	N/A	0.0%	0.0%	0.7	0.7	<5
181513	83	280.9	1.5	10.0	0.0%	0.0%	2.3	0.1	28
181520	83	995.5	1.6	10.7	0.0%	0.0%	1.8	0.0	93

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

May
MISCELLANEOUS SPECIES
Data Table

Table VIII.5. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
181543	83	0.3	0.1	N/A		0.0%	0.0%	3.3	0.0	<5
182510	81	1.7	0.3	N/A		1.0%	0.0%	8.2	0.0	<5
182513	81	8.0	0.6	1.3		3.5%	0.0%	5.3	0.0	6
183513	81	0.9	1.8	N/A		0.0%	0.0%	0.0	0.0	<5
183520	81	17.4	1.7	1.9		1.3%	0.0%	2.2	0.3	9
184520	81	5.3	0.9	N/A		0.7%	0.0%	2.6	0.0	<5
	82	9.4	2.0	N/A		0.0%	0.0%	14.1	0.0	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

June
MISCELLANEOUS SPECIES
Data Table

Table VIII.6. Data used to prepare CPUE and bycatch rate charts for June.

Block	Yr	Observed		Total CPUEs		Bycatch Rates				
		Catch MT	MT	Hour	Tow	(% by weight) Hal	Her	(numbers/mt) KC	TC	Tows
159563	85	14.0	5.6	N/A		1.0%	0.0%	5.8	0.9	<5
159570	81	50.5	N/A	N/A		0.3%	0.1%	0.8	0.3	<5
	82	27.8	N/A	5.6		0.0%	0.0%	0.1	0.1	5
	84	20.2	4.9	N/A		4.0%	0.7%	9.0	1.6	<5
	85	103.1	4.0	17.2		1.0%	0.1%	8.7	2.8	6
160560	85	79.1	5.2	N/A		0.5%	17.5%	3.5	0.3	<5
	87	58.9	5.8	N/A		1.0%	27.4%	0.1	0.0	<5
	88	15.8	6.6	N/A		0.4%	49.0%	0.4	0.1	<5
	89	88.0	8.1	N/A		0.3%	1.3%	0.4	0.2	<5
160563	81	46.7	N/A	N/A		0.1%	0.0%	1.6	0.1	<5
	83	128.9	N/A	11.7		2.2%	0.1%	1.4	0.3	11
	85	19.1	4.6	N/A		0.5%	0.0%	3.2	1.0	<5
	87	47.6	11.7	N/A		2.4%	28.8%	0.0	0.0	<5
	88	9.7	3.5	N/A		0.1%	16.5%	0.4	0.0	<5
160570	85	5.4	1.5	N/A		0.3%	0.6%	7.0	0.9	<5
161560	83	112.5	N/A	14.1		0.9%	0.0%	0.1	0.0	8
	85	248.3	5.9	22.6		0.7%	8.7%	0.3	0.1	11
	86	9.7	4.2	N/A		1.2%	0.0%	0.0	0.0	<5
	87	123.4	6.1	13.7		0.4%	5.5%	0.1	0.0	9
	88	77.6	11.5	N/A		0.3%	48.6%	0.4	0.0	<5
	89	190.0	5.9	14.6		1.1%	0.0%	13.1	3.2	13
161563	85	27.0	3.4	N/A		0.6%	0.0%	14.9	2.8	<5
161573	83	48.7	4.6	N/A		0.6%	2.0%	31.3	1.6	<5
162553	85	67.2	6.1	N/A		0.3%	31.4%	0.8	0.2	<5
	87	4.5	1.4	N/A		14.5%	0.4%	0.4	0.4	<5
162560	85	17.1	1.8	N/A		0.6%	0.3%	39.9	2.4	<5
163560	84	156.4	22.9	N/A		0.0%	0.0%	0.0	0.5	<5
163563	84	19.9	6.3	N/A		0.0%	0.0%	0.0	1.0	<5
	85	6.5	1.7	N/A		0.6%	0.0%	15.8	57.8	<5
163570	85	8.7	2.8	N/A		3.2%	0.0%	9.0	1.5	<5
163583	87	19.9	N/A	N/A		0.7%	0.0%	0.2	0.0	<5
164543	85	8.3	1.4	N/A		3.3%	0.1%	0.2	49.3	<5
164550	85	3.8	0.5	N/A		1.3%	0.0%	0.3	0.8	<5
	89	26.8	3.1	N/A		0.9%	4.6%	0.3	20.2	<5
164553	84	31.5	8.2	N/A		0.1%	0.0%	0.0	0.5	<5
164560	84	460.2	11.1	38.4		0.0%	0.0%	0.0	0.8	12
164563	84	116.1	19.4	N/A		0.1%	0.0%	0.0	0.7	<5
165540	84	31.9	10.6	N/A		6.6%	0.0%	0.0	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

June

VIII-28

MISCELLANEOUS SPECIES
Data Table

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates				
			MT Per		Tow	(% by weight)		(numbers/mt)		
			Hour	Tow		Hal	Her	KC	TC	
Block	Yr	Observed Catch MT	Hour	Tow		Hal	Her	KC	TC	Tows
165543	81	54.3	6.3	N/A		0.4%	0.5%	0.0	0.0	<5
	83	3.3	0.7	N/A		1.3%	0.0%	0.0	1.2	<5
165550	84	65.8	19.3	N/A		0.0%	0.0%	0.0	0.2	<5
	88	10.0	5.7	N/A		0.0%	0.0%	0.0	0.0	<5
165553	83	23.4	4.9	N/A		41.5%	0.0%	0.0	19.1	<5
	84	115.9	28.4	N/A		0.0%	0.0%	0.0	0.6	<5
165560	84	478.6	6.5	31.9		0.0%	0.0%	0.0	0.5	15
165573	86	66.5	3.1	13.3		0.6%	0.0%	0.0	68.9	5
166540	81	11.9	0.5	N/A		0.0%	0.0%	0.1	18.4	<5
	83	3.8	0.3	N/A		0.0%	0.0%	0.3	52.6	<5
	84	66.6	0.5	2.3		0.3%	0.0%	0.1	29.7	29
	85	93.3	0.5	2.3		1.0%	0.0%	0.1	69.5	41
166543	83	1.8	0.2	0.4		14.1%	0.0%	2.2	8.3	5
	84	24.9	0.4	1.5		5.7%	0.0%	1.2	18.0	17
	85	9.9	0.2	1.1		5.7%	0.0%	3.1	19.0	9
166560	84	22.9	3.8	N/A		0.0%	0.0%	0.0	0.3	<5
166573	86	85.9	2.7	17.2		1.3%	0.1%	0.0	99.1	5
166580	87	10.3	2.4	N/A		0.7%	0.0%	0.0	0.3	<5
166583	86	5.9	1.2	N/A		2.4%	0.2%	0.5	0.5	<5
167540	81	38.6	0.6	3.5		0.0%	0.0%	0.0	39.6	11
	82	45.0	0.3	1.5		0.0%	0.0%	0.0	22.9	31
	83	276.7	0.4	2.7		0.0%	0.0%	0.0	42.2	101
	84	430.4	0.7	4.3		0.3%	0.0%	0.0	53.0	100
	85	360.9	0.7	4.1		0.4%	0.0%	1.8	99.8	88
167543	81	23.5	0.6	3.4		0.0%	0.0%	0.0	23.8	7
	82	78.1	0.3	1.5		0.0%	0.0%	0.2	16.2	53
	83	248.9	0.4	2.5		0.5%	0.0%	0.3	23.7	101
	84	425.4	0.8	4.9		0.5%	0.0%	0.0	44.1	87
	85	297.1	0.6	3.1		0.9%	0.0%	0.2	69.4	96
167550	82	9.9	0.4	1.4		0.0%	0.0%	0.1	11.3	7
	83	61.9	0.3	1.0		0.8%	0.0%	3.1	9.7	65
	84	3.2	0.5	N/A		4.1%	0.0%	40.3	4.1	<5
	85	40.4	0.4	1.7		4.2%	0.0%	0.9	42.8	24
167553	85	1.0	0.3	N/A		0.0%	0.0%	1.0	274.0	<5
167563	84	36.5	3.6	N/A		0.0%	0.0%	0.0	1.0	<5
167570	85	1.6	1.4	N/A		0.5%	0.0%	0.0	18.1	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
167573	85	1.1	0.9	N/A	0.2%	0.0%	0.0	35.5	<5
	86	256.9	2.9	16.1	0.5%	0.1%	0.0	273.3	16
	87	147.5	3.8	18.4	0.3%	0.0%	0.0	232.1	8
167580	86	239.3	3.3	18.4	0.6%	0.1%	0.0	206.3	13
	87	28.8	3.6	N/A	1.0%	0.0%	0.0	0.1	<5
	88	43.7	6.7	N/A	0.9%	0.0%	0.0	157.9	<5
168540	83	252.9	0.6	4.9	0.0%	0.0%	0.0	14.0	52
	84	133.7	N/A	12.2	0.0%	0.0%	0.0	14.6	11
	85	101.8	N/A	7.8	0.0%	0.0%	0.0	17.1	13
168543	82	3.5	0.4	N/A	0.0%	0.0%	13.7	10.0	<5
	83	24.2	0.8	N/A	0.0%	0.0%	0.2	6.5	<5
	84	28.5	N/A	N/A	0.0%	0.0%	0.0	0.3	<5
	85	17.5	N/A	N/A	0.0%	0.0%	0.0	6.4	<5
168550	82	1.0	0.2	N/A	0.5%	0.0%	0.0	25.0	<5
	83	46.4	0.3	1.1	0.2%	0.0%	2.9	32.9	44
	84	18.3	0.4	2.0	2.4%	0.0%	0.9	64.2	9
	85	31.9	0.4	1.7	4.8%	0.0%	0.9	77.4	19
168553	81	9.3	0.6	N/A	1.9%	0.0%	0.4	1.1	<5
	82	11.2	0.4	1.4	0.0%	0.0%	1.2	15.6	8
	83	36.9	0.2	0.8	0.8%	0.0%	10.5	22.7	48
	84	51.0	1.0	3.9	0.6%	0.0%	1.5	49.3	13
	85	55.4	0.4	2.0	1.6%	0.0%	1.4	77.6	28
168560	81	2.3	0.4	N/A	0.0%	0.0%	3.0	39.6	<5
	82	2.0	0.6	N/A	1.5%	0.0%	2.5	18.0	<5
	83	3.2	0.5	N/A	0.0%	0.0%	0.9	14.1	<5
	84	18.2	0.5	3.6	0.5%	0.0%	5.1	22.4	5
	85	10.8	0.5	2.2	0.0%	0.0%	8.8	28.5	5
168563	84	92.5	4.8	N/A	0.0%	0.0%	0.1	5.1	<5
168570	84	67.5	4.9	N/A	0.1%	0.0%	0.0	1.5	<5
	86	4.7	0.8	N/A	0.3%	0.0%	0.2	3.4	<5
168573	86	105.7	3.2	17.6	0.4%	0.0%	0.0	84.7	6
	87	51.4	3.6	N/A	1.0%	0.0%	0.2	94.0	<5
168580	86	205.8	2.6	14.7	0.8%	0.1%	0.0	30.7	14
168583	86	10.1	1.7	N/A	1.5%	0.0%	0.1	433.9	<5
	87	11.6	1.8	N/A	0.3%	0.0%	0.0	0.0	<5
	88	416.2	3.7	21.9	0.7%	0.0%	0.1	51.3	19
168590	88	30.7	2.8	N/A	0.4%	0.0%	0.0	143.3	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

June
MISCELLANEOUS SPECIES
Data Table

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Hour	Tow	(% by weight) Hal	Her	KC	TC
169553	81	3.6	0.8	N/A	0.0%	0.0%	1.4	36.1	<5
	82	2.4	0.5	N/A	0.0%	0.0%	0.0	10.0	<5
	83	2.3	0.2	N/A	0.0%	0.0%	0.4	9.6	<5
	84	13.6	5.0	N/A	1.5%	0.0%	3.7	117.3	<5
	85	6.2	0.4	N/A	0.0%	0.0%	0.8	184.4	<5
169560	81	4.2	0.3	N/A	6.1%	0.0%	21.0	0.0	<5
	82	19.2	0.5	1.7	0.3%	0.0%	5.8	7.2	11
	83	20.3	0.3	0.9	2.1%	0.0%	15.4	12.5	22
	84	12.8	0.5	2.6	4.6%	0.0%	4.5	33.7	5
	85	25.6	0.6	2.0	3.2%	0.0%	12.9	57.2	13
169563	82	2.4	0.5	N/A	0.3%	0.0%	1.3	8.8	<5
	84	40.2	13.8	N/A	0.0%	0.0%	0.0	21.5	<5
	88	19.6	11.2	N/A	0.5%	0.0%	1.1	4.3	<5
169570	85	30.7	4.0	N/A	0.1%	0.0%	2.7	107.5	<5
	88	59.8	4.8	12.0	0.6%	0.0%	1.0	65.2	5
169580	88	19.8	3.0	N/A	0.6%	0.0%	0.0	120.0	<5
169583	88	304.0	4.2	17.9	0.4%	0.0%	0.0	66.4	17
169590	88	300.4	4.2	23.1	0.7%	0.0%	0.1	55.0	13
170520	83	3.9	4.7	N/A	4.4%	0.0%	0.0	0.0	<5
	84	3.9	1.1	0.8	4.6%	0.0%	0.8	0.0	5
170523	83	84.9	1.2	3.7	0.3%	0.0%	4.4	0.1	23
	84	73.8	1.3	5.3	0.0%	0.0%	1.6	0.1	14
170530	83	4.0	1.5	<i>N/A</i>	0.2%	0.0%	1.5	0.0	<5
	84	28.9	2.0	<i>N/A</i>	0.2%	0.0%	2.3	0.1	<5
170553	84	5.1	5.1	N/A	0.0%	0.0%	0.0	0.4	<5
170560	84	1.0	0.5	N/A	1.4%	0.0%	16.0	0.0	<5
170563	84	49.9	16.2	N/A	0.4%	0.0%	0.0	0.1	<5
170570	88	529.9	4.9	17.7	1.3%	0.0%	0.4	15.8	30
170573	88	56.7	4.2	N/A	0.8%	0.0%	0.4	8.6	<5
171520	83	30.0	17.1	N/A	0.0%	0.0%	0.0	0.0	<5
	84	3.1	0.9	N/A	0.8%	0.0%	4.5	0.0	<5
171523	83	14.9	2.3	2.5	1.1%	0.0%	0.1	0.0	6
	84	10.7	0.4	2.1	1.4%	0.0%	33.6	25.5	5
171560	81	25.2	1.0	3.2	0.8%	0.0%	1.4	21.1	8
	82	8.7	0.2	1.5	0.0%	0.0%	0.0	10.0	6
	83	9.1	0.3	1.3	0.0%	0.0%	0.7	20.9	7
	84	4.1	0.8	N/A	0.0%	0.0%	0.2	2.9	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

MISCELLANEOUS SPECIES
Data Table

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	TC
171563	81	1.1	0.2	N/A	0.0%	0.0%	0.0	4.5	<5
	85	1.9	0.4	N/A	2.8%	0.0%	0.0	2.1	<5
172520	82	2,633.2	N/A	23.1	0.2%	0.0%	0.0	0.0	114
	83	123.9	N/A	N/A	0.6%	0.0%	0.0	0.0	<5
	84	12,431.5	37.5	21.0	0.2%	0.0%	0.0	0.0	591
	87	2,014.1	8.3	22.4	0.3%	0.0%	0.0	0.0	90
	88	201.0	8.9	18.3	0.5%	0.0%	0.0	0.0	11
172523	84	61.4	61.4	N/A	0.2%	0.0%	0.0	0.0	<5
172560	83	3.5	0.4	N/A	0.0%	0.0%	0.6	18.6	<5
	84	3.1	0.5	N/A	0.0%	0.0%	0.0	8.4	<5
172563	81	61.1	0.8	3.1	0.5%	0.0%	2.3	63.7	20
	82	13.1	0.3	1.6	0.0%	0.0%	0.1	7.9	8
	83	17.0	0.4	1.5	0.1%	0.0%	0.8	15.1	11
	84	36.1	0.7	3.0	0.3%	0.0%	3.0	9.7	12
	85	6.8	0.4	N/A	1.0%	0.0%	0.4	1.0	<5
173520	82	1,077.5	N/A	22.9	0.3%	0.0%	0.0	0.0	47
	83	287.2	N/A	19.1	1.1%	0.0%	0.0	0.0	15
	84	885.7	37.1	22.1	0.2%	0.0%	0.0	0.0	40
	87	243.6	6.1	20.3	0.8%	0.0%	0.0	0.0	12
	88	3.1	0.4	N/A	1.9%	0.0%	0.0	0.0	<5
173563	81	34.3	0.5	2.9	0.0%	0.0%	2.3	29.7	12
	82	11.7	0.2	1.2	0.1%	0.0%	0.1	4.1	10
	84	72.6	0.5	2.5	0.3%	0.0%	0.5	11.9	29
	85	24.9	0.7	2.8	1.4%	0.0%	1.2	7.3	9
	86	2.8	0.6	N/A	0.0%	0.0%	0.0	0.7	<5
173570	81	45.5	0.5	3.0	0.4%	0.0%	1.8	17.0	15
	82	35.4	0.2	1.4	0.0%	0.0%	0.0	6.1	26
	83	2.5	0.5	N/A	0.0%	0.0%	0.0	0.8	<5
	84	105.7	0.5	2.8	0.4%	0.0%	0.7	9.4	38
	85	30.5	0.7	3.1	1.8%	0.0%	0.3	4.5	10
	86	15.3	1.0	N/A	0.1%	0.0%	0.1	8.4	<5
173573	82	0.6	0.1	N/A	0.0%	0.0%	0.0	40.0	<5
	84	5.5	0.5	N/A	2.5%	0.0%	1.8	21.6	<5
174573	81	0.6	0.6	N/A	1.1%	0.0%	0.0	21.7	<5
	82	5.3	0.8	N/A	0.0%	0.0%	1.5	1.1	<5
	84	44.8	0.7	2.8	2.2%	0.0%	2.5	3.4	16
	85	5.7	2.3	N/A	0.0%	0.0%	0.2	2.1	<5
174580	81	13.3	0.8	N/A	0.7%	0.0%	9.7	20.6	<5
	84	132.8	0.8	3.0	2.0%	0.0%	2.7	16.0	45
	85	10.1	0.8	N/A	1.3%	0.0%	0.2	10.6	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

June
MISCELLANEOUS SPECIES
Data Table

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)					
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
174583	84	58.2	1.0	3.9	2.4%	0.0%	1.4	19.5	15	
	85	16.2	2.3	N/A	1.5%	0.0%	0.4	14.7	<5	
175580	81	8.7	0.5	N/A	0.0%	0.0%	10.6	19.7	<5	
	82	3.1	0.6	N/A	0.3%	0.0%	0.0	25.8	<5	
	83	57.7	0.5	2.7	0.0%	0.0%	2.2	7.0	21	
	84	372.5	0.6	3.0	0.3%	0.0%	0.8	33.4	125	
	85	250.6	0.7	3.4	0.2%	0.0%	0.0	8.9	73	
175583	81	6.7	0.6	N/A	0.6%	0.0%	2.5	42.2	<5	
	82	2.8	0.6	N/A	0.0%	0.0%	0.0	14.3	<5	
	83	27.9	0.6	3.5	0.1%	0.0%	1.3	3.8	8	
	84	76.3	0.6	2.7	1.0%	0.0%	0.9	11.2	28	
	85	74.9	0.7	3.9	0.4%	0.0%	0.1	6.8	19	
176583	81	20.7	0.7	3.5	0.6%	0.0%	2.1	21.8	6	
	82	6.3	0.3	N/A	0.0%	0.0%	0.0	0.5	<5	
	83	42.8	0.6	3.1	0.2%	0.0%	0.7	3.6	14	
	84	158.3	0.5	2.6	0.6%	0.0%	2.0	12.7	61	
	85	125.9	0.7	3.8	0.2%	0.0%	0.0	2.9	33	
177583	81	14.9	0.6	3.0	0.5%	0.0%	24.4	60.8	5	
	82	4.1	0.2	0.8	0.6%	0.0%	7.1	14.6	5	
	83	5.9	0.2	N/A	0.0%	0.0%	0.0	3.6	<5	
	84	69.1	0.6	2.8	0.6%	0.0%	3.3	8.0	25	
	85	73.2	0.8	4.3	0.1%	0.0%	0.2	3.3	17	
	86	2.0	0.4	N/A	0.0%	0.0%	0.0	0.5	<5	
177590	82	18.4	0.4	2.0	1.1%	0.0%	44.0	9.3	9	
	83	68.3	0.5	2.7	0.2%	0.0%	4.0	25.0	25	
	84	545.1	0.5	2.6	0.3%	0.0%	6.0	7.3	208	
	85	171.0	0.6	3.4	0.3%	0.0%	1.6	5.5	51	
	86	7.7	1.4	N/A	0.0%	0.0%	0.1	0.1	<5	
177593	82	0.5	0.1	N/A	7.6%	0.0%	0.0	0.0	<5	
	84	72.6	0.8	3.8	0.3%	0.0%	5.3	10.4	19	
177600	84	2.7	0.5	N/A	0.2%	0.0%	1.1	0.0	<5	
177610	84	0.3	0.1	N/A	0.0%	0.0%	3.3	570.0	<5	
178513	89	62.7	16.4	N/A	0.1%	0.0%	0.0	0.0	<5	
178580	83	0.8	0.2	N/A	0.0%	0.0%	7.5	7.5	<5	
178583	81	10.9	0.6	N/A	0.1%	0.0%	30.2	32.3	<5	
	82	49.5	0.2	1.2	0.0%	0.0%	1.3	20.3	42	
	83	233.2	0.4	2.3	0.5%	0.0%	1.8	9.7	103	
	84	104.1	0.6	2.9	1.0%	0.0%	15.8	9.4	36	
	85	237.2	0.4	2.6	0.1%	0.0%	0.5	14.3	91	
	86	16.4	1.5	N/A	0.3%	0.0%	0.1	0.6	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
178590	81	32.6	0.6	4.1	0.0%	0.0%	25.2	76.5	8
	82	35.7	0.2	1.6	0.0%	0.0%	1.0	2.9	23
	83	166.0	0.4	2.2	0.5%	0.0%	5.8	9.3	74
	84	244.3	0.5	2.7	0.7%	0.0%	6.0	10.2	91
	85	238.9	0.5	2.6	0.2%	0.0%	2.6	10.5	91
	86	54.3	1.2	6.8	0.1%	0.0%	0.4	1.5	8
178593	81	42.7	0.7	4.3	0.3%	0.0%	8.2	109.5	10
	82	61.9	0.3	1.7	0.1%	0.0%	0.7	3.3	36
	83	183.1	0.4	2.3	0.9%	0.0%	9.0	13.2	78
	84	231.5	0.7	3.4	0.3%	0.0%	10.0	12.1	68
	85	84.8	0.6	3.5	0.2%	0.0%	2.1	3.7	24
	86	5.2	1.0	N/A	0.9%	0.0%	0.8	22.7	<5
178600	81	42.4	0.6	3.0	0.0%	0.0%	5.0	12.2	14
	82	174.3	0.2	1.5	0.0%	0.0%	11.2	8.9	113
	83	483.1	0.2	1.6	1.1%	0.0%	8.5	25.7	305
	84	1,371.4	0.6	3.2	2.0%	0.0%	11.0	11.6	422
	85	361.8	0.6	3.5	0.4%	0.0%	2.6	4.0	103
	86	409.6	1.3	6.3	0.3%	0.0%	2.9	2.0	65
178603	82	3.4	0.2	N/A	0.0%	0.0%	1.5	44.1	<5
	83	7.1	0.2	1.4	2.8%	0.0%	3.4	22.0	5
	84	931.1	1.3	6.9	2.3%	0.0%	4.8	14.1	135
	85	15.1	3.8	N/A	0.0%	0.0%	0.0	4.2	<5
	86	12.7	1.1	N/A	4.9%	0.0%	6.3	5.6	<5
179513	89	7.0	13.5	N/A	0.2%	0.0%	0.0	0.0	<5
179520	87	46.3	5.8	N/A	0.5%	0.0%	0.0	0.0	<5
179523	82	9.4	0.3	1.6	0.0%	0.0%	0.9	0.0	6
	83	5.5	1.1	N/A	0.0%	0.0%	2.0	1.3	<5
	84	30.2	2.6	6.0	0.6%	0.0%	0.0	0.0	5
	87	2,946.1	10.8	30.7	0.5%	0.0%	0.0	0.0	96
	88	2,458.3	12.6	20.7	0.3%	0.0%	0.0	0.0	119
179590	82	1.6	0.2	N/A	0.0%	0.0%	0.0	0.6	<5
	84	6.6	0.6	N/A	0.2%	0.0%	2.9	0.9	<5
179593	82	17.2	0.2	1.4	0.0%	0.0%	0.3	5.0	12
	83	12.1	0.3	2.0	0.1%	0.0%	11.5	23.4	6
	84	23.4	0.6	3.3	0.5%	0.0%	12.6	17.1	7
	85	19.9	0.5	2.8	0.0%	0.0%	0.4	2.3	7

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

June
MISCELLANEOUS SPECIES
Data Table

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (numbers/mt)		
			MT	Hour	Tow	(% by weight) Hal	Her	KC
179600	81	54.0	0.7	3.6	0.1%	0.0%	7.1	18.8
	82	147.9	0.2	1.5	0.0%	0.0%	21.7	10.7
	83	117.0	0.3	2.0	0.4%	0.0%	8.0	30.9
	84	218.0	0.5	2.8	0.4%	0.0%	9.0	18.2
	85	157.3	0.6	3.5	0.2%	0.0%	0.7	2.5
	86	35.7	1.5	7.1	0.1%	0.0%	0.6	0.7
179603	81	28.1	0.5	3.1	0.0%	0.0%	11.6	11.4
	82	107.2	0.2	1.3	0.0%	0.0%	2.5	12.9
	83	390.3	0.2	1.4	1.2%	0.0%	6.3	47.0
	84	1,159.6	0.5	2.9	2.2%	0.0%	11.8	12.7
	85	30.6	0.9	5.1	0.0%	0.0%	0.2	4.3
	86	239.3	1.1	5.7	0.4%	0.0%	3.4	4.0
180510	83	2.7	0.4	N/A	0.0%	0.0%	14.1	0.0
	87	90.1	5.8	18.0	0.0%	0.0%	0.0	0.0
	88	496.1	12.8	23.6	0.1%	0.0%	0.0	0.0
180513	81	3.9	0.7	N/A	0.0%	0.0%	5.6	0.0
	83	156.9	0.8	5.8	0.0%	0.0%	5.9	0.1
	88	8.5	2.8	N/A	0.0%	0.0%	0.0	0.0
180520	81	0.6	0.1	N/A	0.0%	0.0%	3.3	0.0
	83	414.7	0.8	5.1	0.2%	0.0%	5.6	0.1
	84	28.5	0.6	2.9	0.0%	0.0%	1.6	0.0
180523	82	5.4	0.3	N/A	0.0%	0.0%	4.3	0.4
	83	0.8	0.3	N/A	0.0%	0.0%	2.5	0.0
180540	83	1.3	0.2	N/A	0.5%	0.0%	26.2	0.0
181510	83	15.0	1.4	N/A	0.0%	0.0%	2.5	0.0
	87	28.6	5.0	N/A	0.0%	0.0%	0.0	0.0
	88	219.3	81.2	19.9	0.1%	0.0%	0.0	0.0
181513	83	214.2	2.4	16.5	0.0%	0.0%	1.8	0.0
	87	102.6	10.9	14.7	0.1%	0.0%	0.0	0.0
	88	5,123.0	34.3	28.9	0.1%	0.0%	0.0	0.0
181520	83	408.2	1.4	9.5	0.0%	0.0%	2.1	0.1
181533	88	53.8	N/A	N/A	0.0%	0.0%	0.0	0.0
182513	81	1.0	0.3	N/A	0.0%	0.0%	20.0	2.0
	82	2.0	0.4	N/A	2.2%	0.0%	0.0	4.5
183520	82	0.4	0.4	N/A	8.9%	0.0%	2.5	0.0
184513	81	3.5	0.5	N/A	0.0%	0.0%	21.1	0.0
	82	2.4	N/A	N/A	0.0%	0.0%	0.8	0.0
184520	82	16.9	0.6	1.4	0.0%	0.0%	0.6	0.0
185513	82	1.5	0.2	N/A	0.0%	0.0%	8.0	0.0

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.6. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Per Hour	Tow	Hal	Her	KC	TC
185520	83	4.3	1.1	N/A	1.1%	0.0%	3.7	0.5	<5
186520	81	0.4	0.2	N/A	2.7%	0.0%	55.0	15.0	<5
	83	7.2	1.0	N/A	21.3%	0.0%	2.8	1.9	<5
187523	82	1.8	0.3	N/A	0.0%	0.0%	5.0	0.0	<5
	84	5.4	1.2	N/A	0.0%	0.0%	0.4	0.0	<5
188523	82	3.2	0.4	N/A	0.0%	0.0%	7.5	0.0	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

July
MISCELLANEOUS SPECIES
Data Table

VIII-36

Table VIII.7. Data used to prepare CPUE and bycatch rate charts for July.

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates			KC	TC	Tows
			MT	Per Hour	Tow	(% by weight)	Hal	Her		
158573	84	25.8	6.5	N/A	1.3%	0.3%	1.1	0.0	<5	
160560	83	53.6	N/A	7.7	4.4%	0.0%	0.0	0.0	7	
	85	12.4	2.9	N/A	1.7%	0.8%	8.1	2.6	<5	
160563	81	63.2	N/A	9.0	0.4%	0.3%	2.6	0.3	7	
	82	123.0	N/A	12.3	1.4%	0.0%	2.7	0.1	10	
	83	197.4	N/A	7.6	3.8%	0.1%	0.4	0.0	26	
	85	58.8	3.0	11.8	1.4%	4.9%	6.1	0.8	5	
160570	83	78.7	N/A	15.7	0.2%	0.0%	88.3	1.3	5	
	85	45.3	3.0	9.1	0.0%	2.4%	15.5	3.7	5	
160573	85	8.0	1.6	N/A	0.1%	1.1%	21.9	12.5	<5	
161560	83	80.2	N/A	10.0	0.5%	0.0%	0.1	0.0	8	
	85	51.0	2.8	N/A	1.1%	12.8%	1.6	0.8	<5	
	87	15.9	2.1	N/A	5.7%	0.8%	0.0	0.0	<5	
	89	119.0	5.8	17.0	0.2%	5.3%	3.4	0.8	7	
161563	83	25.5	N/A	N/A	0.6%	0.0%	1.8	1.8	<5	
161573	83	26.5	3.5	N/A	0.7%	1.7%	17.1	20.7	<5	
162553	83	252.1	N/A	9.7	1.6%	0.1%	0.6	0.0	26	
	87	9.1	3.0	N/A	5.6%	0.0%	0.0	0.0	<5	
162573	83	66.2	6.4	N/A	0.0%	0.7%	22.6	12.6	<5	
163550	89	11.3	5.7	N/A	0.4%	0.1%	0.0	0.0	<5	
163560	84	460.9	17.2	57.6	0.0%	0.0%	0.0	0.2	8	
163563	84	55.6	31.8	N/A	0.1%	0.0%	0.0	0.1	<5	
163570	82	41.0	3.6	N/A	0.0%	0.0%	19.3	2.8	<5	
164550	85	6.9	1.5	N/A	0.7%	1.9%	23.5	7.4	<5	
	89	39.7	3.3	7.9	1.3%	0.2%	0.0	9.3	5	
164553	89	45.0	5.9	N/A	0.4%	0.0%	0.1	2.5	<5	
164560	84	308.7	25.9	N/A	0.0%	0.0%	0.0	0.3	<5	
164563	84	10.4	5.0	N/A	0.2%	0.0%	0.1	1.2	<5	
164573	87	25.7	2.4	N/A	1.1%	0.0%	0.8	29.1	<5	
165540	88	13.0	2.0	N/A	0.1%	0.0%	0.2	3.1	<5	
165543	81	218.0	5.3	24.2	0.1%	0.0%	0.0	0.0	9	
	82	8.6	1.2	N/A	0.3%	0.0%	0.0	39.7	<5	
	83	3.7	0.3	N/A	1.5%	0.0%	2.2	64.9	<5	
	87	3.9	0.6	N/A	3.1%	0.0%	0.0	93.8	<5	
165560	84	139.2	14.9	N/A	0.0%	0.0%	0.0	0.8	<5	
165563	84	91.8	17.8	N/A	0.0%	0.0%	0.0	0.7	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
166540	84	302.9	1.6	7.0	0.0%	0.0%	0.0	30.0	43
	85	25.5	0.8	3.6	0.0%	0.0%	0.0	20.6	7
	88	103.9	4.9	11.5	0.3%	0.0%	0.0	0.0	9
166543	82	1.4	0.2	N/A	0.8%	0.0%	0.0	0.0	<5
	83	76.0	0.4	1.3	0.7%	0.0%	3.1	15.9	58
	84	4.0	0.5	N/A	0.0%	0.0%	1.3	51.8	<5
	85	2.6	0.3	N/A	0.0%	0.0%	0.8	9.2	<5
166560	86	7.5	3.2	N/A	1.1%	0.0%	0.0	0.0	<5
167533	84	14.4	4.1	N/A	0.1%	0.0%	0.0	0.0	<5
	88	40.5	4.0	N/A	0.3%	0.0%	0.0	0.2	<5
167540	81	20.5	0.9	N/A	0.0%	0.0%	0.0	51.3	<5
	82	176.1	0.2	1.5	0.0%	0.0%	0.0	18.4	121
	83	62.1	N/A	3.3	0.0%	0.0%	0.0	46.2	19
	84	307.2	0.9	5.3	0.0%	0.0%	0.0	56.6	58
	85	48.5	0.4	2.6	0.0%	0.0%	0.0	73.4	19
	86	31.7	0.6	3.2	0.0%	0.0%	0.0	25.8	10
167543	81	24.2	0.8	4.8	0.0%	0.0%	0.0	68.9	5
	82	152.3	0.2	1.4	0.0%	0.0%	0.0	8.3	108
	83	137.0	0.4	2.2	0.1%	0.0%	0.1	18.1	61
	84	250.0	0.8	4.5	0.0%	0.0%	0.0	69.0	56
	85	39.8	0.5	3.3	0.3%	0.0%	0.0	41.4	12
	86	8.1	0.8	N/A	0.0%	0.0%	0.0	27.0	<5
167550	81	9.3	0.9	N/A	0.0%	0.0%	3.9	49.0	<5
	83	40.6	0.3	1.0	0.2%	0.0%	1.4	13.4	42
	84	19.1	0.6	2.1	0.2%	0.0%	0.4	7.4	9
	85	19.9	0.6	3.3	0.6%	0.0%	1.3	13.2	6
	86	8.8	0.8	N/A	0.0%	0.0%	0.0	9.8	<5
167553	87	3.2	0.5	N/A	6.4%	0.0%	0.0	14.7	<5
168540	83	175.3	N/A	5.7	0.0%	0.0%	0.0	12.1	31
	84	116.8	1.2	9.0	0.0%	0.0%	0.0	11.3	13
	85	59.6	N/A	N/A	0.0%	0.0%	0.0	1.8	<5
168543	83	42.0	N/A	N/A	0.0%	0.0%	0.0	1.6	<5
	84	37.7	3.6	N/A	0.0%	0.0%	0.0	5.4	<5
	85	34.7	N/A	N/A	0.0%	0.0%	0.0	2.0	<5
168550	81	10.5	1.0	N/A	0.0%	0.0%	0.7	29.8	<5
	83	49.9	0.3	1.3	0.3%	0.0%	2.1	31.9	39
	84	9.9	0.4	1.7	1.2%	0.0%	1.3	14.0	6
	85	37.6	0.6	3.4	0.1%	0.0%	2.3	14.0	11
	86	2.6	1.1	N/A	0.0%	0.0%	0.0	13.5	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

July
MISCELLANEOUS SPECIES
Data Table

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Per Hour	Tow	(% by weight)	(numbers/mt)	KC	TC
168553	81	20.1	1.5	N/A	0.0%	0.0%	1.2	5.5	<5
	82	4.7	0.3	N/A	1.1%	0.0%	25.7	14.7	<5
	83	71.5	0.3	1.3	0.1%	0.0%	4.3	15.5	55
	84	111.9	0.6	2.9	0.4%	0.0%	1.2	43.8	38
	85	34.2	0.6	3.1	0.1%	0.0%	0.9	23.0	11
	86	3.0	0.6	N/A	0.0%	0.0%	1.7	9.3	<5
168560	83	1.8	0.4	N/A	0.0%	0.0%	2.2	5.6	<5
	84	5.3	0.4	N/A	0.0%	0.0%	13.0	6.0	<5
	85	63.2	0.9	4.9	0.0%	0.0%	1.5	4.1	13
168580	88	25.7	6.6	N/A	0.0%	0.0%	0.0	7.1	<5
168583	88	172.6	3.4	19.2	0.3%	0.1%	0.0	5.9	9
169530	83	0.6	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
169553	83	1.0	0.2	N/A	0.0%	0.0%	3.0	60.0	<5
	84	5.2	N/A	N/A	0.0%	0.0%	2.5	6.3	<5
	85	7.3	0.6	N/A	0.0%	0.0%	0.4	6.6	<5
	86	4.5	0.9	N/A	0.3%	0.0%	2.2	19.1	<5
169560	83	79.4	0.5	1.3	0.4%	0.0%	3.9	7.1	63
	84	34.9	0.7	2.7	0.4%	0.0%	7.6	16.5	13
	85	2.5	0.4	N/A	0.0%	0.0%	9.6	32.8	<5
169583	88	195.3	3.0	16.3	0.1%	0.0%	0.0	5.6	12
169590	88	146.6	3.4	20.9	0.1%	0.1%	0.0	15.8	7
169593	88	9.0	1.3	N/A	0.1%	0.0%	0.0	17.6	<5
170520	82	6.4	0.5	0.9	14.1%	0.0%	1.1	0.0	7
170523	84	170.3	1.0	3.7	0.1%	0.0%	1.5	0.1	46
170530	84	43.2	0.9	3.1	0.0%	0.0%	3.9	0.0	14
170533	84	3.9	1.3	N/A	0.0%	0.0%	0.5	0.0	<5
170553	82	1.4	0.2	N/A	0.0%	0.0%	5.7	10.0	<5
170560	81	1.0	0.6	N/A	0.0%	0.0%	8.0	22.0	<5
	83	16.5	1.3	2.8	0.0%	0.0%	0.1	0.2	6
	84	7.5	1.1	N/A	1.8%	0.0%	9.3	3.7	<5
170563	87	33.4	3.7	N/A	2.6%	0.0%	0.0	185.7	<5
170570	87	16.7	4.1	N/A	0.9%	0.0%	0.4	14.3	<5
	88	40.9	4.8	N/A	12.0%	0.0%	0.0	2.1	<5
170573	87	83.1	3.0	16.6	0.2%	0.0%	1.2	36.4	5
	88	18.1	3.4	N/A	0.2%	0.0%	0.0	8.3	<5
170580	87	7.6	1.0	N/A	0.0%	0.0%	0.1	456.7	<5
170583	87	12.8	1.8	N/A	0.0%	0.0%	0.0	82.3	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
170590	87	54.1	2.9	10.8	0.0%	0.0%	0.0	73.2	5
170593	87	190.7	3.4	19.1	0.0%	0.0%	0.0	203.3	10
	88	28.6	2.1	N/A	0.1%	0.0%	0.0	16.1	<5
170600	87	285.2	3.5	16.8	0.1%	0.0%	0.0	63.4	17
	88	23.0	5.3	N/A	0.0%	0.0%	0.0	3.3	<5
171513	82	11.5	8.1	N/A	0.0%	0.0%	0.0	0.0	<5
	83	1.8	2.2	N/A	5.9%	0.0%	2.2	0.0	<5
	84	96.4	10.0	13.8	2.2%	0.0%	0.0	0.0	7
171520	82	78.6	6.5	11.2	0.1%	0.0%	0.5	0.0	7
	84	427.4	16.6	12.2	1.0%	0.0%	0.0	0.0	35
171523	82	48.5	4.4	8.1	0.5%	0.0%	0.1	0.0	6
	83	5.2	0.4	N/A	0.0%	0.0%	0.2	0.0	<5
171560	81	5.9	0.4	N/A	0.0%	0.0%	8.3	44.9	<5
	82	25.8	0.2	1.6	0.0%	0.0%	1.5	13.1	16
	83	18.5	0.5	1.7	0.0%	0.0%	0.2	2.0	11
	84	41.9	0.6	2.5	0.9%	0.0%	5.3	17.6	17
171563	82	0.7	0.1	N/A	0.0%	0.0%	0.0	8.6	<5
	83	1.6	0.5	N/A	0.0%	0.0%	0.0	0.0	<5
	84	23.5	0.7	3.4	0.5%	0.0%	8.3	6.3	7
171573	87	3.0	0.6	N/A	7.1%	0.0%	0.0	42.3	<5
171580	87	21.3	3.0	N/A	0.6%	0.0%	0.0	276.7	<5
172513	84	20.2	11.8	N/A	1.9%	0.0%	0.0	0.0	<5
	87	8.7	N/A	N/A	7.5%	0.0%	0.1	0.0	<5
172520	82	1,000.8	N/A	21.8	0.3%	0.0%	0.0	0.0	46
	83	1,749.0	N/A	15.8	0.3%	0.0%	0.0	0.0	111
	84	12,643.5	48.2	25.4	0.2%	0.0%	0.0	0.0	497
	87	2,338.2	4.7	18.1	0.5%	0.0%	0.0	0.0	129
	88	97.0	N/A	N/A	0.2%	0.0%	0.0	0.0	<5
172523	84	40.7	41.4	N/A	0.5%	0.0%	0.0	0.0	<5
	87	6.9	N/A	N/A	0.7%	0.0%	0.3	0.0	<5
172530	82	298.5	N/A	21.3	0.4%	0.0%	0.0	0.0	14
	83	71.0	N/A	N/A	0.6%	0.0%	0.0	0.0	<5
172540	84	25.7	4.8	N/A	0.3%	0.0%	0.0	0.0	<5
172560	81	5.8	0.5	N/A	0.0%	0.0%	2.6	29.0	<5
	82	13.8	0.3	1.7	0.0%	0.0%	0.8	13.2	8
	83	3.1	0.4	N/A	0.0%	0.0%	4.2	15.2	<5
	84	2.9	0.6	N/A	0.0%	0.0%	2.1	134.1	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

VIII-40

July
MISCELLANEOUS SPECIES
Data Table

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Per Hour	Tow	(% by weight) Hal	Her	KC	TC
172563	81	19.1	0.5	2.7	0.0%	0.0%	4.6	30.2	7
	82	51.4	0.2	1.4	0.2%	0.0%	1.4	9.7	38
	83	13.1	0.4	1.3	0.0%	0.0%	0.6	3.0	10
	84	153.4	0.5	2.4	0.6%	0.0%	3.9	14.4	63
172603	87	192.6	2.9	17.5	0.4%	0.6%	1.1	182.8	11
	88	4.2	N/A	N/A	0.0%	0.0%	0.0	333.6	<5
173520	82	415.6	N/A	24.4	0.3%	0.0%	0.0	0.0	17
	83	631.0	N/A	16.2	0.3%	0.0%	0.0	0.0	39
	84	1,252.7	30.2	23.2	0.2%	0.0%	0.0	0.0	54
	87	438.7	5.1	16.2	0.6%	0.0%	0.0	0.0	27
173523	81	7.8	1.0	N/A	0.0%	0.0%	4.5	0.9	<5
173530	82	169.9	N/A	18.9	0.8%	0.0%	0.0	0.0	9
173560	82	0.7	0.1	N/A	0.0%	0.0%	0.0	35.7	<5
173563	81	6.8	0.6	N/A	0.0%	0.0%	0.1	16.3	<5
	82	45.3	0.2	1.3	0.0%	0.0%	0.4	21.7	34
	83	22.7	0.5	1.6	0.0%	0.0%	0.2	50.2	14
	84	96.9	0.4	2.1	0.2%	0.0%	1.0	51.6	47
	85	40.7	0.7	4.1	0.1%	0.0%	0.1	2.7	10
	86	13.8	0.8	N/A	0.0%	0.0%	0.1	1.3	<5
173570	81	33.4	0.6	3.0	0.1%	0.0%	5.4	43.6	11
	82	51.2	0.2	1.4	0.1%	0.0%	0.6	16.2	36
	83	18.2	0.4	1.4	0.0%	0.0%	0.4	47.9	13
	84	194.3	0.5	2.4	0.4%	0.0%	0.9	19.2	81
	85	44.6	0.5	3.2	0.4%	0.0%	0.2	5.8	14
	86	47.7	1.2	6.0	0.1%	0.0%	0.2	7.5	8
173573	81	2.0	0.7	N/A	0.0%	0.0%	3.5	27.0	<5
	84	74.5	0.7	2.9	1.4%	0.0%	1.4	6.6	26
	85	2.0	0.9	N/A	2.4%	0.0%	0.0	0.0	<5
173580	85	6.9	1.1	N/A	0.1%	0.0%	0.0	0.0	<5
173583	87	4.9	1.6	N/A	0.8%	0.0%	0.0	46.5	<5
173590	84	0.5	0.2	N/A	3.4%	0.0%	0.0	4.0	<5
173603	87	15.9	2.4	N/A	0.2%	0.0%	1.8	351.0	<5
174570	84	6.0	4.0	N/A	0.0%	0.0%	0.0	5.5	<5
174573	81	9.8	0.9	N/A	0.5%	0.0%	1.0	7.7	<5
	84	23.8	0.6	2.4	0.4%	0.0%	4.5	10.3	10
174580	81	17.6	1.1	N/A	0.6%	0.0%	3.5	21.0	<5
	82	7.8	0.5	N/A	0.0%	0.0%	1.3	3.8	<5
	84	205.7	0.6	2.6	0.9%	0.0%	1.5	13.0	79
	85	54.1	1.1	6.0	1.3%	0.0%	0.1	0.4	9

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

July
MISCELLANEOUS SPECIES
Data Table

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (% by weight) (numbers/mt)		
			MT	Hour	Tow	Hal	Her	KC
174583	82	1.6	0.6	N/A		0.0%	0.0%	0.0
	84	46.7	0.6	2.6		1.0%	0.0%	0.9
	85	19.1	0.9	N/A		1.9%	0.0%	0.0
175513	87	7.1	2.4	N/A	0.9%	0.0%	2.1	0.0
175580	81	25.8	0.5	3.2		0.0%	0.0%	1.4
	82	10.8	0.2	1.4		0.0%	0.0%	2.1
	84	189.3	0.5	2.3		0.1%	0.0%	1.1
	85	123.1	0.6	3.2		0.2%	0.0%	0.0
	86	179.1	1.3	6.9		1.1%	0.0%	0.0
175583	81	14.5	0.6	N/A		0.1%	0.0%	2.8
	82	6.4	0.3	N/A		0.0%	0.0%	1.3
	84	59.2	0.5	2.6		0.6%	0.0%	0.7
	85	165.1	0.7	3.9		0.4%	0.0%	0.0
	86	56.4	2.5	11.3		0.7%	0.0%	0.0
176513	87	37.2	3.4	N/A	0.8%	0.0%	0.0	0.0
176580	84	1.4	0.3	N/A		0.0%	0.0%	0.0
	86	5.3	0.9	N/A		1.5%	0.0%	0.0
176583	81	12.5	0.7	N/A		0.0%	0.0%	14.6
	82	17.0	0.3	1.7		0.0%	0.0%	1.8
	84	78.5	0.4	2.1		0.1%	0.0%	1.7
	85	5.7	0.8	N/A		1.1%	0.0%	0.0
	86	69.6	1.1	5.4		0.8%	0.0%	0.1
177583	82	19.0	0.2	1.3		0.3%	0.0%	4.1
	84	40.0	0.4	2.2		0.2%	0.0%	3.0
	85	13.6	2.2	N/A		0.0%	0.0%	0.7
	86	15.2	1.2	N/A		0.9%	0.0%	0.4
	87	14.6	1.7	N/A		0.0%	0.0%	0.0
177590	81	5.2	0.4	N/A		0.0%	0.0%	9.4
	82	38.5	0.2	1.5		0.0%	0.0%	2.3
	83	45.2	0.5	1.4		0.1%	0.0%	5.7
	84	157.5	0.5	2.4		0.1%	0.0%	7.2
	85	77.4	0.7	3.9		1.2%	0.0%	3.8
	86	37.4	1.3	6.2		0.2%	0.0%	1.8
	87	251.2	4.3	20.9		0.0%	0.0%	2.6
177593	83	3.4	1.5	N/A	0.2%	0.0%	1.5	19.7
	84	7.1	0.7	N/A	0.0%	0.0%	7.0	8.5
	87	12.2	2.9	N/A	0.3%	0.0%	0.2	0.7
178513	89	484.8	18.7	23.1	0.1%	0.0%	0.0	0.0
178523	88	291.4	N/A	41.6	0.2%	0.0%	0.0	0.0
								7

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

July
MISCELLANEOUS SPECIES
Data Table

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (% by weight) (numbers/mt)			Tows
			MT	Hour	Tow	Hal	Her	KC	
178583	81	5.5	0.4	N/A	0.0%	0.0%	7.8	8.9	<5
	82	54.3	0.2	1.3	0.0%	0.0%	0.5	3.3	42
	83	16.2	0.6	3.2	0.0%	0.0%	0.2	0.6	5
	84	116.8	0.5	3.0	0.2%	0.0%	2.7	1.8	39
	85	31.8	3.3	N/A	0.0%	0.0%	0.2	1.4	<5
	86	13.6	0.9	N/A	0.7%	0.0%	0.2	0.1	<5
	87	18.9	2.4	N/A	0.0%	0.0%	0.0	0.0	<5
178590	81	10.8	0.6	N/A	0.0%	0.0%	3.7	22.8	<5
	82	50.8	0.2	1.1	0.1%	0.0%	3.0	3.2	45
	83	104.6	0.6	3.1	0.3%	0.0%	0.6	2.2	34
	84	221.6	0.5	2.9	0.5%	0.0%	3.6	5.9	76
	85	71.0	0.8	3.9	1.8%	0.0%	14.3	2.1	18
	86	82.5	1.2	6.3	0.1%	0.0%	0.7	2.7	13
	87	20.8	4.3	N/A	0.0%	0.0%	0.1	0.3	<5
178593	81	22.4	0.7	3.2	0.3%	0.0%	100.9	73.0	7
	82	2.5	0.1	N/A	0.0%	0.0%	0.0	1.2	<5
	83	1.6	0.3	N/A	4.3%	0.0%	62.5	0.0	<5
	84	207.9	0.7	3.5	0.5%	0.0%	7.0	15.9	59
	85	256.7	1.0	5.0	1.1%	0.0%	3.7	5.3	51
	86	33.9	1.4	6.8	0.1%	0.0%	0.6	7.5	5
178600	81	65.2	0.5	3.1	0.1%	0.0%	8.0	22.9	21
	82	66.2	0.2	1.5	0.0%	0.0%	0.3	6.1	43
	83	72.2	0.3	2.1	0.1%	0.0%	1.1	6.3	35
	84	321.8	0.4	2.4	0.4%	0.0%	6.9	17.5	135
	85	82.8	1.2	6.4	0.2%	0.0%	0.6	4.8	13
	86	516.6	1.2	6.2	0.0%	0.0%	0.5	2.8	84
	87	87.3	5.9	N/A	0.0%	0.0%	0.0	0.1	<5
178603	82	4.7	0.3	N/A	0.5%	0.0%	0.6	1.1	<5
	83	2.2	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	84	17.9	0.6	3.6	7.2%	0.0%	1.9	24.1	5
	86	42.3	1.2	6.0	0.1%	0.0%	0.7	2.3	7
178610	84	1.5	0.5	N/A	24.7%	0.0%	4.0	48.0	<5
179510	88	30.1	6.7	N/A	0.1%	0.0%	0.0	0.0	<5
	89	165.4	13.7	13.8	0.1%	0.0%	0.1	0.0	12
179513	89	101.1	33.7	16.9	0.0%	0.0%	0.0	0.0	6
179520	82	3.2	0.2	N/A	0.0%	0.0%	2.2	0.0	<5
	84	2.4	0.5	N/A	0.0%	0.0%	10.8	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries
in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
179523	81	3.1	0.6	N/A	0.0%	0.0%	11.0	0.0	<5
	82	5.8	0.3	1.2	2.0%	0.0%	1.4	0.2	5
	84	10.5	0.5	2.1	0.0%	0.0%	9.7	0.8	5
	87	2,496.9	8.7	21.2	0.3%	0.0%	0.0	0.0	118
	88	4,676.5	19.9	23.0	0.2%	0.0%	0.0	0.0	203
179540	82	1.1	0.3	N/A	0.0%	0.0%	18.2	0.0	<5
	84	0.7	0.7	N/A	0.0%	0.0%	1.4	0.0	<5
179590	84	5.0	0.9	N/A	0.0%	0.0%	9.4	2.4	<5
179593	84	7.5	0.5	N/A	0.0%	0.0%	7.2	6.5	<5
179600	81	7.9	0.6	N/A	0.3%	0.0%	4.9	60.4	<5
	82	16.6	0.2	1.4	0.0%	0.0%	0.1	6.1	12
	83	22.0	0.6	3.7	0.0%	0.0%	0.4	2.3	6
	84	69.7	0.5	2.9	0.1%	0.0%	6.0	8.6	24
	85	125.2	1.2	6.3	0.2%	0.0%	0.3	2.9	20
	86	107.5	1.4	6.7	0.1%	0.0%	1.2	7.7	16
179603	81	44.2	0.5	3.4	0.0%	0.0%	11.4	11.1	13
	82	46.1	0.2	1.5	0.0%	0.0%	0.4	11.5	31
	83	80.4	0.3	1.8	0.1%	0.0%	1.2	6.1	45
	84	260.4	0.3	2.1	0.8%	0.0%	8.5	26.2	125
	86	430.6	1.1	5.5	0.1%	0.0%	1.2	4.9	78
180510	87	472.1	4.3	19.7	0.4%	0.0%	0.0	0.0	24
	88	512.2	7.4	20.5	0.0%	0.0%	0.0	0.0	25
180513	81	4.3	0.6	N/A	0.0%	0.0%	7.0	0.0	<5
	82	1.3	N/A	N/A	0.0%	0.0%	3.8	0.0	<5
180520	81	77.1	0.7	3.2	0.0%	0.0%	6.8	0.0	24
	82	188.6	0.3	1.7	0.1%	0.0%	1.2	0.1	109
	84	16.4	0.5	2.3	0.0%	0.0%	8.0	0.0	7
180523	82	26.7	0.2	1.3	0.0%	0.0%	0.6	1.0	20
	84	13.1	0.7	2.6	0.0%	0.0%	5.6	0.1	5
	88	79.9	22.8	16.0	0.3%	0.0%	0.0	0.0	5
180533	82	11.5	0.3	1.3	0.0%	0.0%	2.6	0.2	9
180540	82	97.4	0.4	1.9	0.0%	0.0%	4.5	0.1	52
	84	12.9	0.5	1.6	0.0%	0.0%	9.5	0.1	8
180543	82	1.8	0.4	N/A	0.0%	0.0%	2.8	0.0	<5
181510	82	0.2	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
	88	23.0	N/A	N/A	0.0%	0.0%	0.0	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

July
MISCELLANEOUS SPECIES
Data Table

Table VIII.7. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight)			Bycatch Rates (numbers/mt)		
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
181513	81	2.9	1.1	N/A	0.8%	0.0%		5.9	0.7	<5
	82	1.3	0.2	N/A	0.0%	0.0%		3.1	0.0	<5
	84	10.8	1.0	N/A	4.9%	0.0%		3.4	0.2	<5
	88	816.7	408.4	24.7	0.0%	0.0%		0.0	0.0	33
181520	82	69.7	0.7	4.4	0.0%	0.0%		0.7	0.0	16
181543	82	0.4	0.3	N/A	0.0%	0.0%		0.0	0.0	<5
182513	82	41.6	0.8	3.8	0.0%	0.0%		5.0	1.9	11
183520	81	2.0	0.5	N/A	1.8%	0.0%		64.0	0.0	<5
	82	1.3	0.4	N/A	0.0%	0.0%		0.8	0.0	<5
184513	82	1.1	0.9	N/A	0.0%	0.0%		0.0	0.0	<5
184520	82	1.4	0.3	N/A	3.6%	0.0%		2.1	0.0	<5
185520	81	3.0	0.5	N/A	0.1%	0.0%		25.3	0.0	<5
	82	8.9	0.3	0.8	0.0%	0.0%		17.1	0.4	11
185523	82	0.5	0.4	N/A	0.0%	0.0%		4.0	0.0	<5
186520	81	9.8	0.4	N/A	5.6%	0.0%		23.3	1.5	<5
	82	6.5	0.5	N/A	0.3%	0.0%		7.7	0.5	<5
187520	81	2.9	0.3	N/A	1.1%	0.0%		26.9	0.0	<5
187523	81	11.2	0.5	N/A	0.8%	0.0%		58.4	0.5	<5
	82	17.3	0.3	2.2	0.0%	0.0%		7.1	2.2	8
	84	7.2	1.6	N/A	1.0%	0.0%		0.0	4.7	<5
188523	82	8.6	N/A	N/A	0.0%	0.0%		9.7	0.6	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

August
MISCELLANEOUS SPECIES
Data Table

Table VIII.8. Data used to prepare CPUE and bycatch rate charts for August.

Block	Yr	Observed		Total CPUEs		Bycatch Rates			KC	TC	Tows			
		Catch	MT	MT Per		(% by weight)								
				Hour	Tow	Hal	Her							
159563	85	61.0	3.0	12.2	2.9%	0.0%	3.2	0.5	5					
159570	84	89.1	14.2	N/A	1.4%	0.0%	3.6	0.6	<5					
160560	82	140.8	N/A	14.1	5.9%	0.0%	14.7	0.0	10					
160563	82	420.9	N/A	12.0	3.1%	0.0%	11.9	0.0	35					
160570	84	305.7	15.2	15.3	0.4%	0.0%	4.3	5.1	20					
160573	84	107.0	18.9	21.4	0.0%	0.0%	0.0	0.0	5					
161560	85	22.5	2.3	N/A	0.2%	0.1%	44.8	60.5	<5					
161563	85	3.0	0.8	N/A	1.6%	0.0%	59.3	16.3	<5					
162560	85	36.4	2.9	N/A	0.1%	0.0%	20.9	8.3	<5					
162563	85	19.2	4.4	N/A	0.6%	0.0%	174.6	15.3	<5					
162573	84	12.0	3.3	N/A	0.0%	1.8%	0.0	0.0	<5					
163570	83	40.4	9.5	N/A	0.0%	1.2%	0.4	0.0	<5					
	84	27.0	6.5	N/A	0.0%	1.4%	0.7	0.0	<5					
163573	82	12.9	3.0	N/A	0.2%	0.0%	4.0	0.0	<5					
164550	86	171.3	4.2	19.0	0.6%	12.3%	1.0	0.1	9					
	89	31.3	2.4	N/A	2.7%	0.0%	0.2	42.3	<5					
164553	82	10.0	6.7	N/A	0.0%	0.0%	0.0	0.2	<5					
164573	83	33.3	6.4	N/A	0.0%	0.1%	0.0	0.1	<5					
	84	68.8	4.6	N/A	0.0%	20.8%	0.2	0.0	<5					
	87	12.3	2.5	N/A	0.6%	0.5%	0.0	0.7	<5					
164580	87	21.0	2.1	N/A	3.2%	0.0%	0.0	0.0	<5					
165540	84	23.0	5.1	N/A	2.6%	0.0%	0.1	0.0	<5					
	89	4.4	1.0	N/A	3.5%	0.0%	0.0	8.7	<5					
165543	81	3.7	0.9	N/A	0.0%	0.3%	0.5	0.5	<5					
	82	13.5	1.2	N/A	0.0%	0.0%	0.1	0.0	<5					
	83	63.0	0.8	4.8	0.0%	0.0%	0.7	1.5	13					
	84	97.0	7.7	8.8	1.8%	0.3%	0.0	0.0	11					
	89	1.1	0.3	N/A	13.2%	0.0%	0.0	12.2	<5					
165553	82	95.8	13.2	N/A	0.1%	1.5%	0.0	0.0	<5					
165560	82	18.6	11.7	N/A	0.2%	1.3%	0.0	0.7	<5					
165580	86	46.8	3.0	N/A	0.9%	0.0%	0.0	0.1	<5					
	87	18.5	3.4	N/A	0.4%	0.0%	0.0	0.5	<5					
166540	81	2.5	0.5	N/A	0.0%	0.0%	0.0	175.2	<5					
	82	4.6	0.2	N/A	0.0%	0.0%	0.0	1.3	<5					
	83	39.8	0.4	1.9	0.0%	0.0%	0.1	5.2	21					
	84	69.5	0.5	2.7	0.0%	0.0%	0.1	14.6	26					
	85	4.2	0.3	N/A	0.0%	0.0%	0.2	11.0	<5					

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

August
MISCELLANEOUS SPECIES
Data Table

Table VIII.8. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (numbers/mt)				
			MT Per Hour Tow		(% by weight) Hal Her		KC	TC	Tows
			MT	Hour	Tow	Hal	Her	KC	TC
166543	81	15.4	0.8	3.1	0.5%	0.0%	7.4	12.9	5
	82	25.2	0.5	2.3	0.6%	0.0%	3.2	13.8	11
	83	288.0	0.4	2.2	0.3%	0.0%	1.5	3.0	131
	84	203.6	0.6	2.6	0.2%	0.0%	3.3	13.4	77
	85	7.0	0.5	N/A	0.9%	0.0%	1.0	7.9	<5
166580	83	48.0	N/A	N/A	0.0%	0.0%	0.0	68.5	<5
	85	29.2	3.2	N/A	0.0%	0.0%	0.0	0.1	<5
	86	17.3	3.5	N/A	0.0%	0.1%	0.0	0.0	<5
167533	84	27.9	6.3	N/A	1.3%	0.0%	0.0	0.0	<5
167540	81	16.0	0.7	N/A	0.0%	0.0%	0.0	71.7	<5
	82	111.0	0.2	1.2	0.0%	0.0%	0.0	13.8	94
	83	69.1	0.5	2.7	0.0%	0.0%	0.0	21.0	26
	84	177.5	0.5	2.7	0.0%	0.0%	0.1	62.5	65
	85	68.7	0.5	2.2	0.0%	0.0%	0.0	96.2	31
167543	81	42.4	0.7	3.9	0.2%	0.0%	3.0	62.3	11
	82	58.9	0.2	1.0	0.0%	0.0%	0.1	12.7	59
	83	240.7	0.4	1.8	0.3%	0.0%	0.8	9.3	136
	84	140.3	0.4	1.6	0.1%	0.0%	0.5	74.6	87
	85	65.4	0.4	1.8	0.1%	0.0%	0.2	66.5	36
167550	81	5.6	0.6	N/A	0.0%	0.0%	6.6	72.5	<5
	82	12.9	0.6	1.8	0.2%	0.0%	0.6	0.9	7
	83	69.5	0.4	1.8	0.0%	0.0%	1.0	10.0	38
	84	193.4	0.5	2.1	0.1%	0.0%	1.6	18.8	93
	85	46.8	0.6	2.6	0.2%	0.0%	0.1	9.2	18
167553	82	0.4	0.2	N/A	16.3%	2.5%	0.0	17.5	<5
168540	83	4.6	N/A	N/A	0.0%	0.0%	0.0	49.3	<5
	84	89.8	1.1	6.9	0.0%	0.0%	0.0	12.6	13
	85	3.6	0.7	N/A	0.0%	0.0%	0.0	32.8	<5
168543	83	15.2	1.9	N/A	0.0%	0.0%	0.1	3.2	<5
168550	81	10.3	0.7	N/A	0.0%	0.0%	4.1	5.9	<5
	82	4.5	0.5	N/A	0.1%	0.0%	0.7	1.6	<5
	83	45.5	0.4	1.4	0.0%	0.0%	0.6	12.2	33
	84	152.6	0.7	2.7	0.1%	0.0%	1.3	25.5	57
	85	18.0	0.5	2.0	0.2%	0.0%	3.2	10.9	9
168553	81	17.3	0.6	3.5	0.0%	0.0%	6.6	50.9	5
	82	10.3	0.7	2.1	0.1%	0.0%	0.5	1.5	5
	83	109.9	0.4	1.6	0.1%	0.0%	1.1	11.7	69
	84	68.7	0.6	2.0	0.7%	0.0%	3.9	65.8	34
	85	90.5	0.7	2.9	0.3%	0.0%	1.6	10.3	31

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

August
MISCELLANEOUS SPECIES
Data Table

Table VIII.8. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates				
		Catch		MT Per		(% by weight)		(numbers/mt)		
		MT	Hour	Tow		Hal	Her	KC	TC	Tows
168560	82	20.4	0.5	1.6	0.0%	0.0%	2.3	1.8	13	
	83	2.8	0.3	N/A	0.0%	0.0%	6.4	17.1	<5	
	84	4.3	0.5	N/A	0.0%	0.0%	10.7	5.1	<5	
	85	1.1	0.4	N/A	0.0%	0.0%	1.8	2.7	<5	
169530	84	47.6	31.7	N/A	0.3%	0.0%	0.0	0.0	<5	
169553	83	3.2	0.3	N/A	0.0%	0.0%	0.6	3.4	<5	
	85	1.5	1.1	N/A	2.0%	0.0%	1.3	5.3	<5	
169560	82	74.0	0.7	1.8	0.0%	0.0%	1.6	4.8	42	
	83	31.7	0.5	1.4	0.2%	0.0%	3.9	10.8	23	
	84	20.0	0.5	1.7	0.3%	0.0%	7.3	25.1	12	
	85	15.6	0.6	1.7	0.7%	0.0%	6.0	5.8	9	
169563	87	8.4	1.3	N/A	2.9%	0.0%	38.5	373.1	<5	
169573	87	7.1	1.2	N/A	0.6%	0.0%	2.1	67.9	<5	
170520	81	6.3	0.9	N/A	2.9%	0.0%	3.2	0.0	<5	
	82	3.0	0.6	N/A	3.1%	0.0%	0.3	0.0	<5	
	83	8.3	3.8	N/A	0.3%	0.0%	0.4	0.0	<5	
170523	81	18.0	1.3	N/A	1.9%	0.0%	4.5	0.0	<5	
	82	1.9	0.3	N/A	0.0%	0.0%	1.6	6.3	<5	
	83	0.4	0.3	N/A	0.0%	0.0%	0.0	0.0	<5	
	84	117.6	1.3	4.2	0.3%	0.0%	3.2	0.1	28	
170530	84	27.6	0.7	2.1	0.1%	0.0%	1.3	0.0	13	
170560	81	6.6	0.5	N/A	0.0%	0.0%	6.7	2.6	<5	
	84	18.6	0.8	3.1	0.0%	0.0%	4.7	11.4	6	
	89	72.6	8.5	14.5	4.7%	0.0%	0.0	0.0	5	
170563	81	1.9	0.6	N/A	0.0%	0.0%	1.6	0.0	<5	
171513	82	110.2	20.3	9.2	1.0%	0.0%	0.0	0.0	12	
	83	30.7	16.7	N/A	0.4%	0.0%	0.1	0.0	<5	
	84	19.8	2.4	3.3	2.8%	0.0%	0.0	0.0	6	
171520	81	4.8	1.1	N/A	1.0%	0.0%	0.0	0.0	<5	
	82	31.2	4.7	4.5	1.2%	0.0%	0.1	0.0	7	
	83	37.0	74.0	N/A	0.2%	0.0%	0.0	0.0	<5	
	84	52.6	2.3	2.4	3.9%	0.0%	0.0	0.0	22	
171523	82	9.0	1.4	1.8	0.2%	0.0%	0.3	0.0	5	
	84	14.3	1.4	2.0	4.1%	0.0%	1.4	0.0	7	
171560	81	24.7	0.6	2.5	0.1%	0.0%	4.9	5.0	10	
	82	10.6	0.2	1.1	0.0%	0.0%	1.5	74.8	10	
	83	4.0	0.4	N/A	0.0%	0.0%	1.0	27.0	<5	
	84	53.1	0.6	2.8	0.1%	0.0%	1.9	7.5	19	
	85	19.4	0.9	3.9	0.3%	0.0%	0.7	0.4	5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

August
MISCELLANEOUS SPECIES
Data Table

Table VIII.8. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (numbers/mt)			Tows
			MT Per Hour Tow		(% by weight) Hal Her		KC	TC	
			MT	Hour	Tow	Hal	Her	KC	TC
171563	82	1.0	0.1	N/A	3.3%	0.0%	7.0	490.0	<5
	84	2.0	0.2	N/A	2.0%	0.0%	7.5	31.0	<5
172520	81	1.0	0.9	N/A	17.0%	0.0%	0.0	0.0	<5
	82	1,007.8	N/A	21.9	0.4%	0.0%	0.0	0.0	46
	83	3,814.0	N/A	16.0	0.2%	0.0%	0.0	0.0	239
	84	3,662.1	35.4	21.8	0.2%	0.0%	0.0	0.0	168
	87	364.5	11.2	30.4	0.1%	0.0%	0.1	0.0	12
172560	82	2.4	0.3	N/A	0.0%	0.0%	3.3	263.3	<5
	84	23.7	0.5	2.2	0.1%	0.0%	2.2	59.6	11
	85	26.7	1.1	5.3	0.3%	0.0%	0.2	0.3	5
172563	81	4.5	0.9	N/A	0.0%	0.0%	0.0	0.0	<5
	82	36.3	0.2	1.0	0.0%	0.0%	3.6	60.9	35
	83	15.6	0.8	N/A	0.1%	0.0%	5.9	16.6	<5
	84	77.7	0.4	2.2	0.6%	0.0%	2.2	16.0	35
	85	84.0	1.0	4.2	0.3%	0.0%	0.5	1.7	20
	86	1.5	0.8	N/A	2.5%	0.0%	0.0	0.0	<5
	87	0.2	0.0	N/A	3.4%	0.0%	0.0	0.0	<5
173520	82	362.3	N/A	16.5	0.3%	0.0%	0.0	0.0	22
	83	545.0	N/A	15.6	0.2%	0.0%	0.0	0.0	35
	84	1,009.4	35.1	25.2	0.2%	0.0%	0.0	0.0	40
173560	82	1.3	0.1	N/A	0.0%	0.0%	0.0	3.1	<5
	84	4.1	0.7	N/A	0.0%	0.0%	0.5	70.0	<5
173563	81	6.5	0.7	N/A	0.0%	0.0%	0.2	1.1	<5
	82	19.6	0.2	1.2	0.0%	0.0%	0.2	17.6	16
	83	1.8	0.4	N/A	0.0%	0.0%	7.8	91.1	<5
	84	76.0	0.4	2.1	0.1%	0.0%	1.4	37.8	37
	85	36.4	0.5	2.8	0.1%	0.0%	0.2	3.8	13
	86	9.5	1.1	N/A	0.4%	0.0%	0.0	8.6	<5
	87	0.3	0.1	N/A	0.0%	0.0%	0.0	0.0	<5
173570	81	7.0	1.1	N/A	0.5%	0.0%	0.6	1.4	<5
	82	30.5	0.2	1.1	0.1%	0.0%	0.3	28.6	28
	83	3.2	0.4	N/A	0.0%	0.0%	1.9	37.2	<5
	84	119.5	0.4	2.1	0.2%	0.0%	0.7	43.8	58
	85	64.3	0.6	2.8	0.3%	0.0%	0.2	4.8	23
	86	5.9	0.7	N/A	2.0%	0.0%	0.7	3.4	<5
173573	84	28.4	0.5	1.8	3.2%	0.0%	1.5	16.0	16
	87	11.5	1.4	N/A	3.0%	0.0%	0.0	0.0	<5
173583	83	42.7	12.2	N/A	0.0%	0.2%	0.0	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.8. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	TC
174573	81	3.3	0.6	N/A	0.0%	0.0%	6.7	28.5	<5
	84	21.2	0.5	1.9	0.8%	0.0%	1.4	15.4	11
	85	7.7	0.9	N/A	0.4%	0.0%	2.2	25.6	<5
174580	82	2.1	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	84	98.2	0.4	1.8	2.6%	0.0%	1.4	27.1	55
	85	72.3	0.8	3.8	0.4%	0.0%	0.4	4.7	19
174583	83	21.1	14.9	N/A	0.0%	0.3%	0.0	0.1	<5
	84	54.1	0.5	2.2	0.6%	0.0%	0.7	18.3	25
	85	29.6	1.3	4.9	0.1%	0.0%	0.1	2.4	6
174590	84	1.2	0.2	N/A	0.0%	0.0%	6.7	6.7	<5
175580	81	21.5	0.4	2.2	0.0%	0.0%	2.8	18.0	10
	82	69.2	0.2	1.4	0.0%	0.0%	1.0	12.7	50
	83	71.5	0.6	2.9	0.0%	0.0%	1.0	41.4	25
	84	101.6	0.3	1.9	0.4%	0.0%	0.3	49.1	54
	85	86.0	0.6	3.1	0.2%	0.0%	0.0	8.9	28
	86	78.0	1.1	5.6	0.9%	0.0%	0.0	1.0	14
175583	81	8.5	0.6	N/A	0.0%	0.0%	4.1	13.1	<5
	82	18.2	0.2	1.4	0.0%	0.0%	1.3	38.0	13
	83	8.4	1.1	N/A	0.0%	0.0%	0.5	15.7	<5
	84	85.8	0.5	2.3	0.5%	0.0%	0.3	32.2	37
	85	161.6	0.7	3.8	0.5%	0.0%	0.1	10.0	42
	86	44.4	1.5	7.4	0.9%	0.0%	0.0	1.5	6
176513	87	6.3	N/A	N/A	0.3%	0.0%	0.0	0.0	<5
176580	82	2.5	0.4	N/A	0.0%	0.0%	0.0	14.8	<5
176583	81	43.8	0.4	2.4	0.0%	0.0%	6.4	32.0	18
	82	44.7	0.2	1.5	0.0%	0.0%	0.7	12.3	30
	83	55.4	0.6	2.6	0.1%	0.0%	4.3	58.0	21
	84	62.1	0.3	1.6	1.0%	0.0%	0.9	17.1	38
	85	80.4	0.7	3.7	0.1%	0.0%	0.0	9.4	22
	86	44.4	0.9	4.9	0.8%	0.0%	0.0	10.6	9
177580	84	2.0	0.4	N/A	0.3%	0.0%	21.5	8.0	<5
177583	81	49.9	0.5	3.1	0.1%	0.0%	4.5	13.7	16
	82	39.5	0.3	1.7	0.1%	0.0%	3.9	20.1	23
	83	19.0	0.7	3.2	0.0%	0.0%	3.5	17.2	6
	84	64.1	0.5	2.2	1.0%	0.0%	2.4	15.2	29
	85	62.7	0.7	3.5	0.0%	0.0%	0.5	6.4	18
	86	15.0	1.0	N/A	0.8%	0.0%	0.1	5.2	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

August
MISCELLANEOUS SPECIES
Data Table

Table VIII.8. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs MT Per Hour Tow		Bycatch Rates (% by weight)		Bycatch Rates (numbers/mt)		
			Hal	Her	KC	TC			
177590	81	6.8	N/A	N/A	0.0%	0.0%	2.9	1.3	<5
	82	34.4	0.2	1.3	0.0%	0.0%	18.2	26.2	27
	83	2.7	0.5	N/A	1.8%	0.0%	5.9	114.1	<5
	84	173.0	0.5	2.4	0.2%	0.0%	9.5	11.4	73
	85	293.2	0.7	3.9	0.0%	0.0%	0.7	2.6	75
	86	138.6	1.7	8.7	0.0%	0.0%	0.6	7.2	16
	87	293.2	2.0	10.1	0.0%	0.0%	0.1	0.2	29
177593	84	6.3	0.7	N/A	0.0%	0.0%	4.6	10.6	<5
	85	8.4	0.5	N/A	0.1%	0.0%	5.2	3.9	<5
178580	81	6.1	0.9	N/A	0.0%	0.0%	0.3	4.9	<5
	84	4.5	0.7	N/A	0.0%	0.0%	0.7	0.4	<5
178583	81	23.2	0.5	2.6	0.0%	0.0%	5.1	18.7	9
	82	32.8	0.2	1.5	0.0%	0.0%	8.4	16.0	22
	83	21.4	0.5	2.7	0.2%	0.0%	13.5	5.8	8
	84	73.5	0.4	2.0	0.2%	0.0%	2.4	3.5	36
	85	44.6	0.7	3.4	0.2%	0.0%	8.0	7.5	13
	86	20.4	1.4	N/A	0.0%	0.0%	11.6	1.2	<5
178590	81	6.3	0.3	N/A	0.0%	0.0%	6.0	2.5	<5
	82	83.2	0.2	1.3	0.0%	0.0%	6.0	12.5	65
	83	39.3	0.6	3.0	0.0%	0.0%	2.8	0.8	13
	84	138.7	0.4	2.2	0.0%	0.0%	4.1	6.1	63
	85	99.4	0.7	3.6	0.1%	0.0%	2.3	2.6	28
	86	23.9	1.2	N/A	0.0%	0.0%	8.8	2.9	<5
	87	11.0	2.5	N/A	0.0%	0.0%	0.2	0.6	<5
178593	81	4.2	0.8	N/A	1.8%	0.0%	0.7	1.7	<5
	82	55.7	0.3	1.9	0.0%	0.0%	4.1	14.3	29
	84	88.1	0.4	2.1	0.1%	0.0%	3.2	20.2	42
	85	13.0	0.7	N/A	0.0%	0.0%	0.7	8.8	<5
	86	51.1	1.5	7.3	0.3%	0.0%	3.9	12.2	7
178600	82	124.5	0.3	1.7	0.1%	0.0%	5.1	11.2	72
	83	18.6	0.4	2.3	0.0%	0.0%	0.7	2.2	8
	84	473.1	0.5	2.8	0.1%	0.0%	1.7	11.3	172
	85	31.5	1.9	N/A	0.1%	0.0%	9.2	0.9	<5
	86	175.4	1.2	5.8	0.1%	0.0%	0.3	1.1	30
178603	82	2.3	0.3	N/A	0.0%	0.0%	0.0	9.1	<5
	83	1.9	0.6	N/A	0.0%	0.0%	1.1	32.1	<5
	84	23.0	0.7	3.8	2.2%	0.0%	2.1	11.4	6
179510	82	2.1	0.7	N/A	0.0%	0.0%	4.8	1.9	<5
179520	82	6.6	0.6	N/A	0.0%	0.0%	0.2	0.0	<5
	84	7.7	0.9	N/A	0.0%	0.0%	4.0	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.8. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)			
			MT	Hour	Tow	Hal	Her	KC
179523	82	7.0	0.3	1.4	0.0%	0.0%	5.6	1.6
	84	1.8	0.5	N/A	0.0%	0.0%	2.8	0.0
	87	235.5	14.5	16.8	0.3%	0.0%	0.0	0.0
179590	82	1.0	0.1	N/A	0.0%	0.0%	21.0	0.0
179593	82	3.3	0.2	N/A	0.0%	0.0%	1.5	8.8
	84	1.9	0.2	N/A	0.0%	0.0%	3.7	11.1
	85	5.9	1.2	N/A	0.1%	0.0%	0.5	0.5
179600	82	46.2	0.3	2.1	0.0%	0.0%	0.8	6.2
	84	69.2	0.5	2.9	0.1%	0.0%	2.4	11.3
	85	17.5	1.8	N/A	0.0%	0.0%	0.0	1.0
	86	16.2	1.5	N/A	0.1%	0.0%	0.9	<5
179603	82	78.5	0.2	1.4	0.1%	0.0%	18.8	27.2
	83	26.3	0.6	3.3	0.0%	0.0%	0.7	1.8
	84	267.4	0.4	2.2	0.3%	0.0%	1.8	14.3
	86	53.1	1.1	5.3	0.0%	0.0%	0.2	1.8
180510	87	10.0	1.4	N/A	0.0%	0.0%	0.0	0.0
180513	82	32.0	0.7	4.6	0.1%	0.0%	8.1	0.1
180520	82	128.8	0.3	1.6	0.0%	0.0%	3.8	0.2
	83	8.4	1.7	N/A	0.0%	0.0%	28.6	0.1
180523	82	6.2	0.2	1.2	0.0%	0.0%	1.5	0.2
180533	82	32.0	0.2	1.2	0.0%	0.0%	3.6	0.0
180540	82	167.6	0.2	1.3	0.0%	0.0%	2.8	0.1
181513	81	1.9	0.8	N/A	15.5%	0.0%	1.1	0.0
	82	1.5	0.3	N/A	0.0%	0.0%	8.7	0.0
181520	82	8.5	0.3	1.7	0.0%	0.0%	4.4	0.8
	83	17.9	1.3	N/A	0.0%	0.0%	13.7	0.1
181543	82	2.2	0.6	N/A	0.0%	0.0%	2.7	0.0
182513	82	58.7	0.5	2.7	0.0%	0.0%	4.8	6.8
	84	1.3	N/A	N/A	0.0%	0.0%	23.1	0.0
184520	82	6.8	2.6	N/A	0.0%	0.0%	0.1	0.0
185520	82	7.9	0.5	N/A	0.0%	0.0%	2.2	0.3
185523	84	6.4	0.5	N/A	6.2%	0.0%	13.9	3.3
186520	82	9.2	0.3	1.3	0.0%	0.0%	1.6	0.2
187520	82	5.3	N/A	N/A	0.0%	0.0%	2.5	1.3
187523	82	18.8	0.3	2.4	0.0%	0.0%	2.4	1.1
								8

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. Data used to prepare CPUE and bycatch rate charts for September.

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (numbers/mt)		
			MT	Hour	Tow	(% by weight) Hal	Her	KC
159563	85	438.4	2.2	8.6	2.9%	0.0%	3.8	0.9
159570	85	141.2	2.1	8.8	3.0%	0.0%	5.3	3.6
160570	84	385.5	35.8	18.4	0.6%	0.0%	6.0	4.3
	85	5.5	0.9	N/A	4.8%	0.0%	26.0	27.8
161560	82	67.5	N/A	8.4	1.3%	0.0%	4.9	2.1
163550	86	35.4	2.7	N/A	1.0%	0.1%	3.3	0.6
163560	85	14.4	3.6	N/A	0.5%	0.0%	0.8	1.3
163570	83	38.0	8.4	N/A	0.0%	0.0%	0.1	0.2
	84	28.5	3.0	N/A	0.0%	0.0%	2.0	5.8
163573	84	27.2	2.7	N/A	0.3%	0.2%	0.3	0.0
164543	87	4.1	1.0	N/A	4.1%	0.0%	2.4	2.0
164550	86	89.0	3.5	17.8	0.9%	0.1%	1.2	1.4
	87	19.7	7.1	N/A	0.7%	0.0%	0.0	0.0
	88	92.0	4.2	N/A	0.7%	5.2%	0.0	11.3
164560	83	748.8	N/A	25.0	0.0%	0.0%	0.0	0.0
	85	27.1	4.8	N/A	0.0%	0.0%	0.2	3.9
164580	88	4.0	0.9	N/A	9.7%	0.0%	0.5	2.0
165540	83	1.3	0.4	N/A	0.0%	0.0%	0.0	4.6
	84	26.4	0.9	3.8	0.2%	0.0%	1.0	18.7
	89	59.4	3.5	11.9	2.3%	0.1%	0.0	1.3
165543	82	9.5	0.5	1.6	0.9%	0.0%	3.7	13.8
	83	103.1	0.6	3.0	0.6%	0.0%	1.7	3.9
	84	131.6	0.8	3.1	1.0%	0.0%	1.4	8.7
	87	19.2	1.9	N/A	1.2%	0.0%	0.0	2.0
	89	14.3	3.7	N/A	0.4%	0.5%	0.0	0.0
165550	87	57.6	11.5	N/A	0.0%	0.0%	0.0	0.0
	88	38.2	4.0	N/A	2.0%	0.0%	0.0	1.0
165553	82	197.4	8.7	16.5	0.1%	30.7%	0.0	0.3
	85	3.4	1.0	N/A	10.5%	0.0%	0.0	5.3
	87	11.9	N/A	N/A	3.2%	0.1%	1.3	10.9
165560	82	28.4	3.3	N/A	0.1%	2.7%	0.0	0.7
165573	88	77.8	8.7	N/A	0.0%	0.0%	0.0	0.4
165580	88	45.0	10.0	N/A	0.9%	0.0%	0.2	1.0
166540	82	18.5	0.6	2.6	0.2%	0.0%	5.7	12.5
	83	51.9	0.5	7.4	0.3%	0.0%	0.2	9.1
	84	334.7	0.7	3.3	0.0%	0.0%	0.4	32.9
	85	47.5	0.8	4.0	0.0%	0.0%	0.1	26.7
	89	11.3	13.6	N/A	0.7%	0.0%	0.0	0.0

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Per Hour	Tow	(% by weight) Hal	Her	KC	TC
166543	82	364.2	0.5	2.0	0.4%	0.0%	2.2	9.7	182
	83	729.6	0.5	2.4	0.6%	0.0%	1.7	6.8	304
	84	404.5	0.6	2.8	0.5%	0.0%	2.6	21.3	146
	85	181.2	1.0	4.8	0.3%	0.1%	1.5	13.6	38
	88	119.0	16.2	N/A	0.0%	0.0%	0.0	0.0	<5
166550	84	39.8	15.4	N/A	0.0%	48.4%	0.0	0.1	<5
	87	10.0	2.5	N/A	0.0%	0.0%	0.0	0.0	<5
166553	85	1.6	0.8	N/A	3.9%	0.0%	0.0	18.1	<5
166560	82	20.3	3.4	N/A	1.2%	20.8%	0.0	1.3	<5
166573	85	6.6	1.8	N/A	0.0%	0.0%	0.3	3.0	<5
	86	12.6	2.5	N/A	0.0%	0.0%	0.2	2.5	<5
166580	86	214.2	3.2	16.5	0.1%	0.1%	0.0	1.0	13
	88	20.5	3.4	N/A	0.2%	0.0%	0.0	0.0	<5
167533	83	25.6	N/A	5.1	0.2%	0.0%	0.0	0.0	5
167540	82	17.1	0.3	1.9	0.0%	0.0%	0.6	8.7	9
	83	14.1	0.3	1.8	0.0%	0.0%	2.8	101.3	8
	84	129.9	0.5	2.6	0.0%	0.0%	0.1	60.1	50
	85	4.4	0.5	N/A	0.0%	0.0%	0.0	50.7	<5
	87	14.0	1.1	N/A	0.0%	0.0%	0.0	2.6	<5
167543	82	196.5	0.4	1.8	0.7%	0.0%	1.8	13.4	108
	83	419.3	0.5	2.3	0.8%	0.0%	1.6	10.4	184
	84	219.2	0.5	2.1	0.1%	0.0%	1.3	42.6	102
	85	44.2	0.7	3.2	0.2%	0.0%	1.4	17.6	14
	87	6.8	1.0	N/A	0.0%	0.0%	0.0	4.4	<5
167550	82	46.4	0.4	1.8	0.1%	0.0%	1.2	8.0	26
	83	122.1	0.5	2.3	1.1%	0.0%	0.9	11.6	54
	84	83.1	0.5	1.8	0.3%	0.0%	1.4	20.1	45
	85	77.2	2.2	9.7	0.4%	0.0%	1.6	3.0	8
167553	82	3.5	0.5	N/A	0.0%	0.0%	0.0	3.1	<5
	84	1.4	0.5	N/A	0.0%	0.0%	0.0	47.9	<5
	85	1.2	0.6	N/A	7.8%	0.0%	0.0	18.3	<5
167560	89	2.3	0.9	N/A	1.5%	0.0%	0.0	7.5	<5
167563	89	13.6	5.4	N/A	2.8%	0.0%	0.0	52.8	<5
167573	86	17.0	2.6	N/A	0.0%	0.0%	0.0	13.0	<5
167580	85	22.1	5.5	N/A	0.0%	0.0%	0.0	0.1	<5
	86	70.4	6.4	N/A	0.1%	1.4%	0.0	9.2	<5
168523	89	14.9	3.2	N/A	1.2%	0.0%	0.0	0.0	<5
168540	83	6.0	0.4	N/A	1.1%	0.0%	0.3	8.7	<5
	84	37.3	1.2	7.5	0.0%	0.0%	0.0	11.1	5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)					
			MT	Hour	Tow	Hal	Her	KC	TC	Tows
168550	82	40.5	0.5	2.9	0.1%	0.0%	0.6	4.2	14	
	83	80.9	0.5	2.4	0.4%	0.0%	1.1	14.3	34	
	84	81.8	0.7	2.8	0.2%	0.0%	1.0	22.6	29	
	85	14.7	0.6	1.8	0.1%	0.0%	2.2	28.6	8	
168553	82	80.6	0.5	2.7	0.3%	0.0%	1.0	4.5	30	
	83	62.3	0.6	2.6	0.2%	0.0%	2.9	24.2	24	
	84	90.8	0.8	3.2	0.2%	0.0%	1.5	28.2	28	
	85	71.9	0.8	3.8	0.5%	0.0%	0.9	11.5	19	
168560	82	17.6	0.6	N/A	0.0%	0.0%	1.5	1.9	<5	
	83	0.7	0.5	N/A	0.0%	0.0%	0.0	4.3	<5	
	84	5.7	0.7	N/A	0.0%	0.0%	4.9	15.3	<5	
	87	84.4	5.2	N/A	0.8%	10.5%	0.0	1.5	<5	
	89	12.7	1.9	N/A	1.1%	0.0%	0.0	12.0	<5	
168563	87	107.0	7.5	N/A	0.0%	0.0%	0.0	0.0	<5	
169553	84	6.2	1.3	N/A	0.0%	0.0%	2.3	7.3	<5	
	85	3.3	0.6	N/A	0.0%	0.0%	0.0	14.2	<5	
169560	82	2.6	0.6	N/A	0.0%	0.0%	0.0	0.8	<5	
	83	1.7	0.4	N/A	0.0%	0.0%	1.2	7.1	<5	
	84	12.9	0.6	1.8	0.0%	0.0%	3.9	11.9	7	
	85	6.9	0.5	1.2	0.0%	0.0%	6.7	7.2	6	
	87	29.5	3.9	N/A	0.0%	0.0%	0.0	0.0	<5	
	89	5.4	1.1	N/A	1.5%	0.0%	0.0	3.5	<5	
169570	85	18.3	2.8	N/A	0.6%	0.0%	4.3	111.4	<5	
	86	6.5	1.2	N/A	0.0%	0.0%	0.8	2.2	<5	
	87	8.1	1.9	N/A	0.5%	0.2%	0.0	19.3	<5	
169573	87	21.6	2.0	N/A	0.2%	0.5%	0.3	10.8	<5	
170520	83	22.6	5.9	N/A	6.0%	0.0%	0.2	0.0	<5	
170523	81	3.0	0.9	N/A	3.9%	0.0%	4.3	0.0	<5	
	84	288.5	1.0	4.1	0.3%	0.0%	1.8	0.1	70	
	89	113.9	12.4	N/A	0.1%	0.0%	0.0	0.0	<5	
170530	81	1.4	0.4	N/A	1.7%	0.0%	0.0	0.0	<5	
	84	46.7	0.8	2.5	0.1%	0.0%	3.4	0.1	19	
170560	84	8.0	0.8	N/A	0.4%	0.0%	4.9	10.1	<5	
	88	70.2	4.1	N/A	1.2%	0.0%	0.0	1.6	<5	
	89	15.4	2.8	N/A	2.4%	0.0%	0.0	2.5	<5	
170563	85	4.0	1.8	N/A	11.6%	0.0%	0.0	5.5	<5	
171513	83	29.9	29.9	N/A	0.7%	0.0%	0.0	0.0	<5	
	84	3.1	2.0	N/A	0.1%	0.0%	0.6	0.0	<5	
	89	8.5	8.2	N/A	0.5%	0.0%	0.1	0.0	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	
171520	83	24.5	73.5	N/A	0.2%	0.0%	0.0	0.0	<5
	89	9.0	4.9	N/A	0.0%	0.0%	0.0	0.0	<5
171523	81	40.1	6.2	8.0	0.2%	0.0%	0.2	0.0	5
	84	51.4	2.4	7.3	0.1%	0.0%	1.4	0.3	7
171560	82	24.3	0.2	1.6	0.0%	0.0%	1.0	13.7	15
	83	39.8	0.2	1.6	0.0%	0.0%	1.0	27.6	25
	84	58.3	0.4	2.4	0.2%	0.0%	1.2	4.0	24
	85	24.4	0.7	3.5	0.2%	0.0%	0.0	1.1	7
171563	82	1.0	0.1	N/A	0.0%	0.0%	0.0	2.0	<5
	83	6.5	0.4	N/A	0.0%	0.0%	0.0	16.5	<5
	84	8.8	0.4	N/A	0.2%	0.0%	0.5	4.1	<5
	85	9.4	0.9	N/A	0.0%	0.0%	0.1	3.0	<5
	87	36.0	7.9	N/A	0.0%	0.0%	0.0	0.0	<5
172513	81	19.5	9.8	N/A	0.4%	0.0%	0.0	0.0	<5
172520	84	44.8	7.8	7.5	1.3%	0.0%	0.0	0.0	6
	87	637.5	17.1	33.6	0.3%	0.0%	0.0	0.0	19
	89	20.5	1.3	N/A	0.3%	0.0%	1.7	0.8	<5
172523	89	6.3	1.6	N/A	0.0%	0.0%	0.6	1.4	<5
172560	83	8.8	0.4	N/A	0.0%	0.0%	0.6	8.4	<5
	84	7.0	0.3	N/A	0.1%	0.0%	0.0	5.6	<5
172563	82	28.4	0.1	0.9	0.1%	0.0%	1.1	36.1	30
	83	62.7	0.3	1.7	0.0%	0.0%	1.2	15.1	38
	84	62.4	0.4	2.0	0.3%	0.0%	1.1	4.1	31
	85	29.3	0.8	4.2	0.1%	0.0%	0.1	1.4	7
	86	5.6	2.2	N/A	0.2%	0.0%	0.4	0.4	<5
	89	44.2	6.5	N/A	0.8%	0.0%	0.7	398.2	<5
173520	87	8.8	N/A	N/A	0.1%	0.0%	0.0	0.0	<5
	89	231.0	3.4	12.8	0.4%	0.0%	1.3	0.8	18
173523	89	42.4	4.0	N/A	0.0%	0.0%	5.3	0.6	<5
173563	81	5.3	0.6	N/A	0.2%	0.0%	1.9	8.7	<5
	82	22.7	0.3	1.4	0.1%	0.0%	0.2	3.7	16
	83	50.2	0.2	1.1	0.0%	0.1%	0.3	12.9	45
	84	52.7	0.3	1.8	0.2%	0.0%	2.2	25.7	30
	85	39.9	0.7	3.6	0.2%	0.0%	0.4	5.0	11
	86	34.2	1.0	4.3	0.2%	0.0%	0.0	3.2	8

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

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Table VIII.9. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates			Tows	
		Catch	MT	MT Per		(% by weight)		KC	TC	
				Hour	Tow	Hal	Her			
173570	81	19.2	0.5	2.4	0.0%	0.0%	2.1	21.6	8	
	82	28.9	0.3	1.6	0.1%	0.0%	0.3	14.8	18	
	83	123.0	0.2	1.2	0.2%	0.0%	0.5	11.1	102	
	84	93.2	0.5	2.5	0.6%	0.0%	0.2	7.7	37	
	85	51.8	0.7	3.7	0.3%	0.0%	0.2	6.2	14	
	86	32.4	1.0	4.1	0.6%	0.0%	0.2	3.5	8	
173573	84	25.9	0.7	2.6	5.5%	0.0%	1.1	5.1	10	
	85	3.9	0.8	N/A	0.0%	0.0%	0.0	1.3	<5	
174570	82	1.0	0.1	N/A	0.0%	0.0%	0.0	19.0	<5	
174573	81	8.3	0.9	N/A	0.0%	0.0%	0.8	7.7	<5	
	82	20.8	0.6	2.6	1.0%	0.0%	5.2	8.0	8	
	84	7.5	0.4	N/A	3.9%	0.0%	0.1	0.3	<5	
174580	84	26.3	0.6	2.4	0.2%	0.0%	1.9	6.8	11	
	85	38.6	0.8	3.9	0.9%	0.0%	0.4	0.3	10	
174583	84	6.2	0.8	N/A	0.0%	0.0%	0.3	11.3	<5	
174610	85	14.9	3.8	N/A	0.0%	1.2%	0.0	12.4	<5	
175520	89	50.0	9.2	N/A	0.3%	0.0%	0.4	0.0	<5	
175580	81	27.7	0.5	2.5	0.1%	0.0%	4.5	30.4	11	
	82	161.3	0.2	1.6	0.1%	0.0%	0.8	33.6	104	
	83	194.6	0.2	1.1	0.1%	0.0%	0.8	34.0	173	
	84	112.6	0.6	2.8	0.6%	0.0%	0.8	37.6	40	
	85	96.5	0.7	3.7	0.5%	0.0%	0.1	35.2	26	
	86	199.3	1.1	5.7	0.5%	0.0%	0.0	7.0	35	
175583	81	11.4	0.6	2.3	0.1%	0.0%	2.8	17.4	5	
	82	45.2	0.3	1.7	0.1%	0.0%	0.3	23.8	26	
	83	12.7	0.2	1.2	0.9%	26.8%	0.7	37.2	11	
	84	92.3	0.5	2.6	0.4%	0.0%	0.4	30.2	36	
	85	76.9	0.9	3.8	1.0%	0.0%	0.1	15.0	20	
	86	43.1	1.7	8.6	0.5%	0.0%	0.0	5.0	5	
176583	81	38.1	0.4	2.1	0.2%	0.0%	3.9	22.9	18	
	82	33.3	0.3	1.7	0.0%	0.0%	4.9	12.9	20	
	83	64.8	0.2	1.1	0.0%	1.6%	0.5	10.0	58	
	84	89.1	0.8	4.5	0.5%	0.0%	0.3	7.4	20	
	85	63.1	0.8	4.5	0.2%	0.0%	0.0	7.2	14	
	86	179.3	1.4	7.8	0.3%	0.0%	0.0	5.0	23	
176590	85	35.5	11.2	N/A	0.0%	51.3%	0.0	0.1	<5	
177580	82	2.8	0.4	N/A	0.0%	0.0%	1.4	23.2	<5	
	84	2.0	0.4	N/A	0.1%	0.0%	8.0	4.5	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
177583	81	14.4	0.6	2.9	0.1%	0.0%	1.7	11.8	5
	82	35.2	0.4	2.2	0.2%	0.0%	3.7	5.7	16
	83	45.1	0.2	1.3	0.1%	0.0%	1.5	49.4	35
	84	48.6	0.4	2.3	1.2%	0.0%	4.3	48.0	21
	85	47.7	0.9	3.4	0.3%	0.0%	0.5	5.8	14
	86	36.5	1.6	7.3	1.2%	0.0%	1.3	4.1	5
177590	81	12.4	0.6	N/A	0.0%	0.0%	8.1	14.6	<5
	82	49.3	0.3	1.8	0.1%	0.0%	4.3	17.1	28
	83	1.8	0.4	N/A	0.0%	0.0%	0.0	1.7	<5
	84	99.3	0.4	2.0	0.3%	0.0%	5.3	17.0	50
	85	108.7	0.7	3.9	0.5%	2.0%	0.6	6.3	28
	86	671.2	1.3	5.8	0.1%	0.0%	0.7	1.5	115
	87	114.7	2.5	14.3	0.1%	0.0%	0.1	1.3	8
177593	83	7.4	3.3	N/A	0.0%	57.6%	0.0	0.0	<5
	84	18.6	0.9	3.7	1.3%	0.0%	7.2	11.8	5
	85	37.7	1.1	6.3	0.3%	0.0%	0.3	6.2	6
	86	25.3	1.8	N/A	0.0%	0.0%	6.1	3.4	<5
177600	84	3.6	0.6	N/A	0.0%	0.0%	26.9	23.9	<5
178580	82	1.6	0.1	N/A	0.0%	0.0%	83.8	40.6	<5
	83	0.6	0.1	N/A	0.0%	0.0%	0.0	0.0	<5
178583	81	4.5	0.5	N/A	0.0%	0.0%	3.3	22.0	<5
	82	31.1	0.2	1.0	0.0%	0.0%	4.6	11.9	32
	83	50.3	0.2	1.0	0.1%	0.0%	1.4	8.1	51
	84	80.4	0.4	2.4	1.1%	0.0%	11.4	30.0	33
	85	53.1	0.8	4.8	0.0%	0.0%	2.3	6.0	11
	86	13.3	2.7	N/A	0.3%	0.0%	0.1	2.9	<5
178590	81	17.9	0.7	3.6	0.2%	0.0%	27.9	5.0	5
	82	92.7	0.2	1.3	0.0%	0.0%	5.4	12.9	69
	83	42.1	0.1	0.7	0.1%	0.0%	1.5	4.4	58
	84	120.6	0.4	2.5	0.1%	0.0%	8.5	17.1	49
	85	59.1	1.0	5.4	0.1%	0.0%	1.1	0.4	11
	86	123.5	1.0	4.6	0.2%	0.0%	1.1	2.3	27
	87	12.6	2.5	N/A	0.0%	0.0%	0.7	6.2	<5
178593	81	30.1	0.5	2.5	0.1%	0.0%	14.2	10.0	12
	82	12.8	0.3	1.6	0.0%	0.0%	7.4	14.3	8
	83	6.6	0.3	1.3	0.0%	0.0%	1.4	18.8	5
	84	246.1	0.5	2.8	0.1%	0.0%	6.8	15.9	87
	85	39.3	1.2	5.6	0.2%	14.7%	1.1	15.4	7
	86	38.4	1.2	5.5	1.1%	0.0%	8.2	0.5	7

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per Hour Tow		(% by weight)		(numbers/mt)		
			Hal	Her	KC	TC	Tows		
178600	81	81.3	0.6	3.0	0.2%	0.0%	2.1	1.5	27
	82	97.2	0.3	1.9	0.2%	0.0%	2.1	20.0	52
	83	90.5	0.2	1.0	0.3%	0.0%	1.0	20.8	88
	84	228.7	0.6	3.3	0.1%	0.0%	5.9	7.4	69
	85	376.5	1.3	7.7	0.2%	0.0%	3.5	0.4	49
	86	59.6	1.0	5.0	0.0%	0.0%	0.2	0.7	12
178603	82	7.5	0.8	N/A	0.0%	0.0%	0.0	0.0	<5
	83	0.2	0.0	N/A	0.0%	0.0%	0.0	0.0	<5
	84	6.5	0.4	N/A	0.0%	0.0%	13.5	4.8	<5
	85	44.3	1.6	7.4	1.0%	0.0%	1.4	0.3	6
179510	82	2.5	1.3	N/A	0.0%	0.0%	0.4	0.0	<5
	89	60.8	17.4	N/A	0.2%	0.0%	0.2	0.0	<5
179520	81	1.0	0.4	N/A	0.1%	0.0%	0.0	0.0	<5
	82	13.5	0.3	1.7	0.5%	0.0%	19.9	0.1	8
	84	3.8	1.0	N/A	0.0%	0.0%	3.4	0.0	<5
179523	82	19.6	0.3	1.8	0.2%	0.0%	6.4	0.7	11
	84	5.5	0.4	N/A	0.2%	0.0%	2.7	0.0	<5
179533	82	6.0	0.6	N/A	0.0%	0.0%	22.5	6.7	<5
179590	84	1.4	0.3	N/A	0.0%	0.0%	13.6	54.3	<5
179593	82	0.9	0.1	N/A	0.0%	0.0%	1.1	38.9	<5
179600	81	6.0	0.6	N/A	0.0%	0.0%	0.7	3.5	<5
	82	19.4	0.2	1.6	0.0%	0.0%	0.7	8.9	12
	84	54.8	0.6	3.2	0.0%	0.0%	12.0	13.2	17
	85	61.4	1.8	8.8	0.0%	0.0%	0.9	0.2	7
	86	65.4	1.8	9.3	0.1%	0.0%	0.2	0.6	7
	81	51.7	0.4	2.4	0.3%	0.0%	3.4	1.1	22
179603	82	57.9	0.3	1.8	0.9%	0.0%	2.6	6.4	33
	83	83.5	0.1	0.9	0.6%	0.0%	0.7	7.6	88
	84	136.4	0.4	2.2	0.2%	0.0%	4.0	18.1	61
	85	127.1	0.9	4.7	0.8%	0.0%	5.2	0.6	27
	86	24.5	1.2	4.9	0.0%	0.0%	0.2	0.4	5
	82	69.2	0.3	1.5	0.3%	0.0%	3.9	0.4	45
180520	83	2.9	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
	84	58.2	0.6	2.8	4.1%	0.0%	11.6	0.3	21
	82	12.5	0.2	1.3	0.3%	0.0%	1.4	0.3	10
180523	83	4.4	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	84	3.2	0.4	N/A	0.0%	0.0%	3.1	0.3	<5
	82	23.1	0.3	1.8	0.0%	0.0%	8.3	0.0	13
180533	84	6.5	N/A	N/A	0.0%	0.0%	1.2	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

September
MISCELLANEOUS SPECIES
Data Table

Table VIII.9. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT Per Hour	Tow	(% by weight)	(numbers/mt)				
						Hal	Her	KC	TC	Tows
180540	82	88.3	0.3	1.5	0.4%	0.0%	7.5	2.0	58	
	83	5.0	0.5	N/A	0.0%	0.0%	0.0	0.0	<5	
	84	14.0	0.9	2.8	0.0%	0.0%	3.1	0.0	5	
180543	82	2.1	0.4	N/A	0.0%	0.0%	2.9	0.0	<5	
181513	81	4.7	1.0	N/A	0.8%	0.0%	0.0	0.0	<5	
	82	4.6	0.5	N/A	0.2%	0.0%	7.0	2.4	<5	
181520	82	538.0	0.9	4.9	0.1%	0.0%	2.6	0.1	110	
	84	91.3	2.2	9.1	0.0%	0.0%	3.0	0.0	10	
181543	82	9.5	0.9	N/A	0.0%	0.0%	2.1	0.1	<5	
182513	81	6.8	0.4	N/A	6.3%	0.0%	1.3	0.0	<5	
	82	13.8	0.2	0.9	0.1%	0.0%	3.6	3.6	15	
	84	2.3	0.4	N/A	0.0%	0.0%	13.9	0.0	<5	
182520	82	21.9	4.5	N/A	0.0%	0.0%	0.2	0.0	<5	
183513	82	32.1	0.5	2.1	0.2%	0.0%	4.6	0.0	15	
184513	82	6.4	0.8	N/A	0.0%	0.0%	9.2	0.0	<5	
185520	82	14.8	0.5	2.5	0.1%	0.0%	10.5	0.1	6	
186520	82	4.0	0.2	N/A	0.0%	0.0%	10.3	1.5	<5	
187520	82	7.6	0.4	N/A	0.0%	0.0%	4.6	1.7	<5	
187523	82	43.6	0.4	2.2	0.0%	0.0%	3.4	0.4	20	
187530	82	1.7	0.2	N/A	0.0%	0.0%	25.9	2.4	<5	
188523	82	1.8	0.4	N/A	0.0%	0.0%	2.8	0.0	<5	

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

October
MISCELLANEOUS SPECIES
Data Table

Table VIII.10. Data used to prepare CPUE and bycatch rate charts for October.

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates			KC	TC	Tows
			MT	Hour	Tow	(% by weight)	Hal	Her		
159563	85	16.1	2.0	N/A	3.4%	0.0%	0.7	2.3	<5	
159570	85	3.2	0.5	N/A	6.7%	0.0%	0.0	3.8	<5	
161570	85	1.9	0.6	N/A	8.2%	0.0%	0.5	1.6	<5	
163553	86	11.6	2.9	N/A	1.1%	0.0%	0.5	0.5	<5	
163563	84	38.7	19.4	N/A	0.0%	0.0%	0.0	5.1	<5	
	85	28.1	6.1	N/A	0.0%	0.0%	0.0	4.3	<5	
163570	84	43.5	5.6	N/A	0.0%	0.0%	0.2	0.6	<5	
163573	84	0.3	0.1	N/A	3.0%	0.0%	0.0	0.0	<5	
164550	86	71.2	3.3	14.2	1.0%	0.4%	4.1	3.7	5	
165540	84	98.2	6.2	12.3	2.5%	0.1%	0.0	3.0	8	
	86	10.0	1.7	N/A	1.5%	0.1%	0.2	0.9	<5	
	89	37.5	1.3	5.4	3.6%	0.2%	0.0	1.0	7	
165543	81	4.5	1.1	N/A	4.8%	0.0%	0.2	0.0	<5	
	82	5.6	1.5	N/A	0.1%	0.0%	0.0	0.9	<5	
	83	64.5	1.4	8.1	0.9%	0.0%	0.1	2.9	8	
	84	148.4	2.1	6.5	2.0%	0.0%	0.2	6.6	23	
	88	163.3	4.5	23.3	1.7%	0.0%	0.0	1.3	7	
	89	167.0	2.3	9.3	2.9%	0.1%	0.0	0.2	18	
165550	85	8.4	4.4	N/A	0.0%	0.8%	5.2	21.1	<5	
	86	52.8	4.0	N/A	0.7%	0.7%	1.5	3.2	<5	
	88	105.8	3.6	21.2	2.0%	0.0%	0.0	1.1	5	
165553	86	70.1	2.5	11.7	2.3%	0.1%	2.3	12.4	6	
165563	84	0.7	0.2	N/A	0.0%	0.0%	0.0	1.4	<5	
	85	17.8	2.8	N/A	0.0%	0.0%	0.0	0.4	<5	
	89	9.1	4.4	N/A	0.0%	0.0%	0.0	140.0	<5	
165573	86	17.0	N/A	N/A	0.0%	0.0%	0.1	1.5	<5	
	88	38.6	3.7	N/A	0.3%	0.0%	0.0	1.4	<5	
166540	82	6.0	0.3	1.2	0.4%	0.0%	1.7	15.3	5	
	83	72.9	0.7	3.3	0.1%	0.0%	0.2	9.5	22	
	84	99.1	0.7	3.7	0.1%	0.0%	0.4	53.9	27	
	85	3.6	0.7	N/A	0.0%	0.0%	0.0	35.0	<5	
	89	173.2	2.0	8.7	0.6%	0.0%	0.1	12.3	20	
166543	82	254.9	0.4	1.7	1.5%	0.0%	4.0	11.3	149	
	83	386.2	0.5	2.4	2.9%	0.0%	1.4	7.9	163	
	84	210.9	0.6	2.5	2.3%	0.0%	1.1	15.1	86	
	85	122.5	5.8	20.4	0.6%	0.0%	0.1	2.5	6	
	86	5.0	4.3	N/A	2.1%	0.0%	0.0	5.2	<5	
	89	49.7	2.9	9.9	2.6%	0.0%	0.0	0.9	5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
166560	84	2.4	0.4	N/A	8.1%	0.0%	0.0	36.7	<5
	86	37.2	8.8	N/A	0.2%	0.0%	0.0	0.1	<5
166570	83	1.6	0.3	N/A	0.0%	0.0%	0.6	41.9	<5
	86	34.1	1.7	N/A	0.1%	0.0%	0.0	80.1	<5
166573	83	0.2	0.1	N/A	0.0%	0.0%	0.0	25.0	<5
	86	44.0	9.6	N/A	0.1%	0.5%	0.1	1.3	<5
166580	86	56.0	11.8	N/A	0.1%	0.2%	0.1	0.5	<5
	88	56.9	4.6	N/A	0.1%	0.0%	0.1	2.7	<5
167523	89	42.7	22.3	N/A	1.4%	0.0%	0.0	0.0	<5
167540	82	19.6	0.3	1.6	0.0%	0.0%	0.1	16.0	12
	83	149.1	0.6	2.7	0.0%	0.0%	0.1	31.3	55
	84	134.9	0.6	3.4	0.0%	0.0%	0.1	118.2	40
	85	58.3	1.1	5.3	0.0%	0.0%	0.1	28.3	11
	86	17.4	1.0	N/A	0.2%	0.0%	0.0	4.1	<5
	89	127.6	2.1	10.6	0.2%	0.0%	0.0	185.3	12
167543	82	243.3	0.4	1.9	1.9%	0.0%	2.7	14.0	126
	83	278.9	0.5	2.4	2.1%	0.0%	1.1	17.8	116
	84	199.3	0.5	2.0	1.9%	0.0%	0.7	31.7	100
	85	55.4	0.9	4.3	0.2%	0.0%	0.0	33.8	13
	86	14.9	0.6	N/A	0.0%	0.0%	0.1	5.9	<5
	89	210.4	2.3	11.1	1.9%	0.0%	0.1	93.4	19
167550	82	38.5	0.4	1.8	0.7%	0.0%	1.4	8.4	22
	83	60.7	0.4	1.8	2.2%	0.0%	0.9	14.8	33
	84	38.9	0.6	2.2	2.1%	0.0%	1.5	56.8	18
	85	40.0	1.3	6.7	1.8%	0.0%	0.1	1.0	6
	86	23.1	1.5	N/A	0.4%	0.0%	0.4	1.8	<5
167560	85	6.0	2.6	N/A	0.0%	64.3%	0.0	0.3	<5
	89	84.4	6.1	N/A	0.7%	0.0%	0.0	8.8	<5
167563	85	0.9	0.9	N/A	0.4%	0.0%	0.0	1.1	<5
167573	85	11.9	2.6	N/A	0.0%	0.0%	0.4	34.6	<5
167580	85	17.6	3.6	N/A	0.0%	0.0%	0.3	0.9	<5
	88	103.9	3.6	17.3	0.5%	0.0%	0.1	5.2	6
168540	83	2.6	0.4	N/A	6.3%	0.0%	0.8	3.8	<5
	84	7.2	1.2	N/A	0.0%	0.0%	0.0	55.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

October
MISCELLANEOUS SPECIES
Data Table

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates			
			MT	Hour	Tow	(% by weight) Hal	Her	KC
168550	81	0.5	0.3	N/A	0.0%	0.0%	0.0	0.0
	82	24.3	0.3	1.6	0.1%	0.0%	1.6	15.6
	83	43.9	0.4	2.0	3.1%	0.0%	0.9	12.4
	84	46.1	0.7	3.3	0.6%	0.0%	0.8	19.4
	85	43.2	1.2	6.2	1.6%	0.0%	1.0	2.2
	86	3.6	0.6	N/A	2.8%	0.0%	0.0	3.6
168553	82	127.0	0.4	2.1	0.3%	0.0%	4.8	17.7
	83	11.6	0.2	1.3	8.6%	0.0%	6.0	57.4
	84	137.0	0.7	3.6	0.2%	0.0%	2.5	32.9
	85	41.5	1.1	5.2	0.5%	0.0%	0.3	2.7
	86	2.1	0.3	N/A	9.4%	0.0%	0.0	4.8
	89	11.5	0.9	N/A	2.8%	0.0%	0.3	83.1
168560	82	9.8	0.7	N/A	0.0%	0.0%	1.8	8.3
	85	79.2	5.6	13.2	0.1%	61.7%	0.0	0.6
	87	111.0	4.7	11.1	0.7%	0.0%	0.0	10.3
	89	6.4	1.3	N/A	1.4%	0.0%	0.0	9.1
168563	87	11.3	4.1	N/A	0.7%	0.0%	0.0	9.1
	89	16.3	2.5	N/A	0.7%	0.1%	0.0	59.9
168570	89	9.8	2.0	N/A	0.9%	0.0%	16.4	28.3
168573	83	0.8	0.3	N/A	0.0%	0.0%	0.0	3.8
	86	7.0	2.6	N/A	0.0%	0.7%	0.1	581.9
168580	86	10.1	1.8	N/A	0.0%	0.0%	0.0	1.3
	88	25.0	2.1	N/A	0.2%	0.0%	0.0	0.7
168583	84	13.0	3.1	N/A	0.0%	0.4%	0.0	4.0
	88	47.7	2.6	N/A	0.1%	0.0%	0.0	2.5
169553	82	3.3	0.3	N/A	0.3%	0.0%	0.9	1.2
	83	2.6	0.6	N/A	0.0%	0.0%	2.3	10.8
	84	12.4	0.8	N/A	0.0%	0.0%	0.5	121.5
	85	8.4	0.8	N/A	0.0%	0.0%	0.0	4.6
	89	22.5	2.2	N/A	1.8%	0.0%	0.0	28.2
169560	82	59.1	0.6	2.2	0.2%	0.0%	9.5	6.8
	87	63.5	9.0	N/A	1.0%	0.0%	0.0	0.1
	88	131.1	5.3	26.2	1.3%	0.1%	0.0	11.3
	89	0.9	0.8	N/A	7.2%	0.0%	0.0	2.2
169563	89	75.2	2.1	9.4	0.8%	0.0%	0.0	57.6
169570	85	25.9	2.0	N/A	4.1%	0.0%	0.8	31.1
169573	89	36.2	2.3	N/A	0.0%	0.0%	0.1	364.7
169580	88	5.4	0.8	N/A	0.3%	0.0%	0.0	2,545.6
169583	88	44.7	2.8	N/A	0.1%	0.0%	0.0	3.0

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.10. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates					
		Catch	MT	MT	Hour	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
170523	81		2.9	0.5	N/A		7.2%	0.0%	0.7	0.0	<5
	83		119.3	0.3	1.7		0.1%	0.0%	3.4	0.3	72
	84		75.2	1.1	4.0		0.1%	0.0%	3.0	0.3	19
170530	84	8.2	2.3	N/A			1.9%	0.0%	10.1	0.4	<5
170560	84		1.4	0.6	N/A		7.1%	0.0%	0.0	0.0	<5
	87		2.0	0.5	N/A		13.8%	0.0%	0.0	238.5	<5
	89		2.7	0.9	N/A		3.3%	0.0%	0.0	0.0	<5
170563	89		1.4	0.3	N/A		13.8%	2.2%	0.0	68.4	<5
170570	85		8.4	1.7	N/A		28.6%	0.0%	1.0	4.5	<5
171513	81	27.3	2.1	3.0			0.3%	0.0%	0.0	0.0	9
171520	81		1.8	0.6	N/A		1.0%	0.0%	0.0	0.0	<5
	84		11.5	12.5	N/A		0.0%	0.0%	0.0	0.0	<5
171523	81		10.8	9.3	N/A		0.0%	0.0%	0.0	0.0	<5
	84		2.9	0.8	N/A		0.0%	0.0%	4.5	0.0	<5
171560	81		51.7	0.8	4.3		0.3%	0.0%	1.6	9.9	12
	82		46.4	0.3	2.0		1.0%	0.0%	1.9	18.4	23
	83		218.4	0.4	2.4		0.3%	0.0%	2.6	54.3	91
	84		66.2	0.9	4.1		1.2%	0.0%	1.6	4.5	16
	85		8.2	0.8	N/A		0.2%	0.0%	1.2	1.2	<5
	86		11.9	0.8	N/A		0.0%	0.0%	0.5	6.2	<5
	89		0.3	0.2	N/A		7.5%	0.0%	0.0	16.7	<5
	81		8.4	1.8	N/A		0.3%	0.0%	1.7	3.8	<5
171563	82		4.5	0.3	N/A		0.9%	0.0%	2.4	9.1	<5
	83		7.1	0.2	1.2		1.0%	0.0%	3.8	18.5	6
	84		2.4	0.2	N/A		0.0%	0.0%	0.0	19.2	<5
	86		13.2	0.9	N/A		0.4%	0.0%	0.2	2.3	<5
	87		5.9	1.0	N/A		0.5%	0.0%	0.0	0.0	<5
171580	85		12.4	2.5	N/A		0.1%	0.0%	0.0	16.0	<5
171583	85		6.5	2.1	N/A		0.2%	0.0%	0.0	31.1	<5
172513	81	387.4	83.0	38.7			2.5%	0.0%	0.0	0.0	10
172520	81		216.7	19.8	14.4		0.5%	0.0%	0.0	0.0	15
	87		2,584.8	13.9	30.8		0.1%	0.0%	0.0	0.0	84
	89		22.5	1.1	4.5		0.4%	0.0%	1.3	0.6	5
172523	89		17.1	2.0	N/A		0.0%	0.0%	14.1	1.3	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

October
MISCELLANEOUS SPECIES
Data Table

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Table VIII.10. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates				
		Catch	MT	MT Per		(% by weight)		(numbers/mt)		
				Hour	Tow	Hal	Her	KC	TC	
172560	81	4.8	0.7	N/A	0.0%	0.0%		2.9	27.9	<5
	82	3.7	0.3	N/A	0.6%	0.0%		0.5	14.9	<5
	83	51.9	0.3	1.7	0.5%	0.0%		1.5	10.2	30
	84	8.7	0.3	1.5	0.0%	0.0%		1.3	20.8	6
	85	1.4	0.2	N/A	0.0%	0.0%		0.7	0.0	<5
	86	8.4	2.1	N/A	0.2%	0.0%		0.1	0.4	<5
172563	81	42.8	0.6	3.3	0.7%	0.0%		1.8	36.4	13
	82	90.7	0.3	2.1	0.6%	0.0%		2.0	26.9	43
	83	218.8	0.2	1.5	0.7%	0.0%		1.5	10.2	148
	84	77.6	0.4	2.1	0.1%	0.0%		2.1	12.1	37
	85	13.7	0.8	N/A	0.1%	0.0%		0.3	1.6	<5
	86	76.6	1.2	5.9	0.6%	0.0%		0.1	1.4	13
173520	87	19.2	1.8	N/A	2.6%	0.0%		0.4	0.9	<5
	89	154.6	1.7	6.7	0.4%	0.0%		1.2	2.9	23
173523	89	73.2	2.7	8.1	0.1%	0.0%		2.2	0.9	9
173560	<i>82</i>	<i>1.5</i>	<i>0.2</i>	<i>N/A</i>	<i>0.0%</i>	<i>0.0%</i>		<i>0.0</i>	<i>6.0</i>	<5
	<i>83</i>	<i>4.4</i>	<i>0.2</i>	<i>N/A</i>	<i>0.1%</i>	<i>0.0%</i>		<i>0.2</i>	<i>43.4</i>	<5
173563	81	38.9	0.6	3.0	1.0%	0.0%		1.5	6.7	13
	82	72.2	0.3	1.8	0.8%	0.0%		3.5	12.7	40
	83	196.5	0.2	1.3	1.2%	0.0%		1.7	37.1	154
	84	84.6	0.4	2.3	0.2%	0.4%		0.4	11.2	37
	85	12.4	0.5	2.5	0.7%	0.0%		0.6	2.9	5
	86	27.7	0.8	4.0	0.1%	0.0%		0.0	7.9	7
	87	13.2	0.9	N/A	0.3%	0.0%		0.0	0.2	<5
	89	20.0	16.0	N/A	0.0%	0.0%		0.0	0.0	<5
173570	81	34.0	0.4	2.4	0.7%	0.0%		2.0	37.2	14
	82	150.1	0.4	2.3	0.3%	0.0%		0.8	5.6	65
	83	252.1	0.2	1.1	0.8%	0.0%		1.1	19.9	225
	84	94.9	0.4	2.3	0.5%	0.6%		1.5	17.5	41
	85	42.9	0.9	5.4	1.0%	0.0%		0.1	0.1	8
	86	55.7	1.0	4.6	0.1%	0.0%		0.0	2.3	12
	87	18.4	1.0	N/A	0.1%	0.0%		0.1	0.3	<5
173573	82	18.4	0.6	1.8	0.9%	0.0%		5.2	14.4	10
	83	25.4	0.4	1.8	0.8%	0.0%		0.9	13.5	14
	84	24.3	0.9	3.5	1.7%	0.0%		3.3	6.2	7
	87	19.2	1.4	N/A	1.0%	0.0%		0.0	0.1	<5
	89	50.0	17.6	N/A	0.1%	0.0%		0.0	0.2	<5
173593	89	39.0	N/A	N/A	0.1%	0.1%		2.6	266.7	<5
174570	83	1.5	0.3	N/A	1.8%	0.0%		1.3	18.7	<5
	86	9.1	2.4	N/A	0.1%	0.0%		0.0	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

**MISCELLANEOUS SPECIES
Data Table**

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
174573	82	34.0	0.7	3.4	2.6%	0.0%	5.0	4.4	10
	83	23.9	0.4	1.6	1.1%	0.0%	3.8	14.9	15
	84	18.1	0.6	3.0	0.1%	0.0%	0.8	17.2	6
174580	84	86.3	0.6	2.5	1.1%	0.0%	1.1	11.4	34
	85	8.8	0.9	N/A	2.0%	0.0%	0.5	0.9	<5
174583	84	21.4	0.8	3.1	2.3%	0.0%	1.6	2.4	7
	85	2.4	0.6	N/A	5.9%	0.0%	0.0	0.0	<5
175580	81	30.8	0.4	2.2	0.6%	0.0%	3.2	52.1	14
	82	81.9	0.3	1.9	0.3%	0.0%	0.4	17.1	43
	83	180.5	0.2	1.1	0.6%	0.0%	0.5	26.0	164
	84	133.7	0.5	3.0	0.2%	0.0%	0.3	19.5	44
	85	88.5	0.9	5.2	0.3%	0.0%	0.0	5.2	17
	86	115.9	0.9	4.8	0.4%	0.0%	0.0	4.8	24
	87	41.9	0.9	4.7	0.8%	0.0%	0.0	0.5	9
175583	81	11.5	0.3	1.9	1.1%	0.0%	6.8	46.0	6
	82	71.4	0.5	2.7	0.4%	0.4%	0.5	11.0	26
	83	121.5	0.3	1.7	1.1%	0.0%	1.6	29.0	70
	84	326.4	0.6	3.7	0.2%	0.0%	0.2	11.7	88
	85	57.4	1.2	5.2	0.6%	1.4%	0.0	1.0	11
	86	23.0	0.8	3.8	1.3%	0.0%	0.0	3.7	6
	87	19.5	0.6	3.3	2.4%	0.0%	0.1	0.4	6
175590	82	2.6	0.4	N/A	0.0%	0.0%	0.0	10.0	<5
176583	81	28.4	0.4	2.6	0.2%	0.0%	4.6	68.9	11
	82	3.5	0.2	N/A	0.4%	0.0%	18.3	133.4	<5
	83	92.3	0.3	1.6	0.4%	31.3%	0.5	8.3	56
	84	66.2	0.6	3.3	0.0%	0.0%	0.9	12.5	20
	85	113.0	1.0	5.4	0.2%	0.4%	0.1	5.1	21
	86	66.4	1.0	4.7	0.3%	0.0%	0.0	2.0	14
176590	87	23.4	1.7	N/A	1.2%	0.1%	0.0	5.9	<5
176593	85	0.8	0.7	N/A	0.0%	52.5%	0.0	0.0	<5
	87	12.1	0.9	N/A	2.4%	0.0%	0.0	3.6	<5
176603	84	0.8	0.3	N/A	0.0%	1.3%	0.0	53.8	<5
177583	81	7.4	0.3	N/A	0.2%	0.0%	6.1	43.0	<5
	82	14.0	1.0	N/A	0.6%	0.0%	4.9	2.7	<5
	83	68.4	0.2	1.4	0.4%	6.3%	2.3	8.8	49
	84	71.0	0.6	3.0	0.3%	0.0%	3.4	17.7	24
	85	23.4	1.0	N/A	0.2%	0.3%	1.8	8.2	<5
	86	3.5	0.6	N/A	0.0%	0.0%	0.3	1.7	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

October
MISCELLANEOUS SPECIES
Data Table

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)					
			MT	Per Hour	Tow	Hal	Her	KC	TC	Tows
177590	82	34.8	0.3	1.8	0.2%	0.0%	13.5	20.2	19	
	83	155.7	0.4	2.5	0.4%	18.2%	0.8	11.3	63	
	84	38.4	0.5	2.4	0.0%	0.1%	4.2	22.5	16	
	85	48.0	0.7	3.7	0.5%	0.0%	4.8	3.5	13	
	86	262.2	0.9	4.2	0.3%	0.0%	0.2	0.6	63	
	87	749.4	1.0	6.2	1.7%	0.3%	0.1	6.4	120	
177593	83	1.3	0.5	N/A	0.0%	0.0%	0.0	0.0	<5	
	84	13.4	0.8	N/A	0.0%	0.1%	0.6	2.8	<5	
	85	17.1	1.2	N/A	2.2%	0.1%	1.2	0.4	<5	
	86	14.7	0.7	2.9	2.3%	0.0%	0.2	3.5	5	
	87	259.7	1.3	7.0	2.0%	3.4%	0.1	2.3	37	
177600	87	7.1	1.0	N/A	3.4%	0.0%	0.0	141.7	<5	
178580	83	0.8	0.1	N/A	0.0%	0.0%	0.0	0.0	<5	
	85	7.5	0.7	N/A	0.0%	0.0%	8.0	0.0	<5	
178583	81	1.7	0.2	N/A	1.1%	0.0%	0.0	0.0	<5	
	82	12.6	0.3	1.8	0.0%	0.0%	15.9	20.6	7	
	83	81.7	0.3	1.9	0.4%	0.0%	1.8	10.4	43	
	84	80.1	0.5	2.9	0.1%	0.0%	6.2	6.8	28	
	85	26.6	1.0	5.3	0.4%	0.0%	8.5	1.2	5	
	86	14.9	0.8	N/A	0.1%	0.0%	0.9	0.1	<5	
	87	29.0	0.7	3.6	4.0%	0.0%	0.8	0.6	8	
178590	81	7.9	0.5	N/A	0.0%	0.0%	15.2	22.9	<5	
	82	12.3	0.3	1.8	0.0%	0.0%	8.5	7.2	7	
	83	47.7	0.2	1.3	0.4%	0.0%	0.9	7.4	38	
	84	115.4	0.4	2.3	0.1%	0.0%	10.1	19.7	50	
	85	93.1	0.9	4.7	0.2%	0.0%	5.5	1.2	20	
	86	110.6	0.8	4.1	0.1%	0.0%	0.5	0.5	27	
	87	96.6	0.8	4.8	0.5%	0.0%	0.4	1.3	20	
178593	81	2.6	0.3	N/A	0.0%	0.0%	15.0	38.5	<5	
	82	131.5	0.7	4.5	0.0%	35.8%	1.5	9.2	29	
	83	131.3	0.3	2.0	0.1%	5.7%	4.4	10.0	66	
	84	334.4	0.7	3.8	0.1%	0.0%	13.0	45.0	88	
	85	34.0	0.8	4.3	2.7%	4.3%	2.0	8.8	8	
	86	36.6	1.0	6.1	0.0%	0.0%	1.8	1.3	6	
	87	26.5	0.8	4.4	3.0%	0.2%	0.5	28.9	6	

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

October
MISCELLANEOUS SPECIES
Data Table

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates (% by weight) (numbers/mt)				
			MT	Hour	Tow	Hal	Her	KC	TC
178600	81	2.0	0.7	N/A	0.0%	0.0%	0.5	0.0	<5
	82	172.9	0.3	2.0	1.0%	0.0%	4.9	21.9	88
	83	101.5	0.2	1.5	0.2%	0.0%	2.8	9.8	68
	84	159.5	0.5	3.3	0.1%	0.0%	1.6	3.8	48
	85	342.6	1.4	7.6	1.0%	1.1%	1.4	5.6	45
	86	87.0	1.4	6.2	0.1%	0.0%	0.1	0.5	14
	87	150.7	0.8	5.2	2.9%	0.0%	1.1	100.7	29
178603	82	2.2	0.2	N/A	1.1%	0.0%	4.1	9.1	<5
	83	2.7	0.1	N/A	0.0%	0.0%	0.0	11.1	<5
	84	32.1	1.8	N/A	0.0%	0.0%	0.9	28.6	<5
	85	166.3	1.1	6.4	0.8%	0.0%	1.6	10.3	26
	87	27.9	0.7	4.0	2.8%	0.0%	0.6	58.1	7
179520	82	3.1	0.3	N/A	0.8%	0.0%	1.9	0.0	<5
179523	82	5.7	0.3	N/A	1.2%	0.0%	1.6	0.9	<5
	83	32.8	0.3	1.9	0.5%	0.0%	1.7	0.4	17
	84	10.4	0.8	N/A	0.3%	0.0%	5.4	0.2	<5
179590	84	4.2	0.7	N/A	0.0%	0.0%	9.8	4.3	<5
179593	83	8.7	0.7	N/A	0.0%	0.0%	9.0	4.5	<5
179600	82	37.7	0.3	2.1	0.6%	0.0%	3.7	12.1	18
	83	22.6	0.3	1.9	0.3%	0.0%	29.2	5.1	12
	84	52.1	0.5	2.9	0.1%	0.0%	19.9	10.4	18
	85	43.2	2.1	N/A	0.0%	0.0%	0.1	0.1	<5
	86	43.3	1.8	8.7	0.0%	0.0%	0.0	0.3	5
	82	220.9	0.4	2.4	1.8%	0.0%	5.9	20.7	93
179603	83	71.5	0.2	1.5	0.5%	0.0%	1.1	12.9	48
	84	103.8	0.5	3.2	0.3%	0.0%	2.8	1.7	32
	85	95.3	1.1	6.4	1.0%	0.0%	2.6	1.5	15
	86	10.1	1.3	N/A	0.0%	0.0%	0.0	0.0	<5
	82	45.1	0.7	4.5	0.0%	0.0%	2.2	0.0	10
180513	84	2.8	0.7	N/A	0.1%	0.0%	7.1	0.0	<5
	81	0.4	0.2	N/A	3.0%	0.0%	5.0	0.0	<5
	82	131.7	0.7	4.2	0.2%	0.0%	1.4	0.0	31
	83	111.4	0.4	2.4	0.6%	0.0%	7.2	0.2	47
180523	84	9.2	0.6	N/A	13.4%	0.0%	4.0	0.2	<5
	82	4.1	0.3	N/A	0.1%	0.0%	0.7	0.2	<5
	83	39.9	0.2	1.4	0.4%	0.0%	1.5	0.7	28
	84	2.6	0.7	N/A	1.2%	0.0%	2.3	0.4	<5
180530	83	0.3	0.0	N/A	0.0%	0.0%	3.3	0.0	<5
180533	82	0.3	0.1	N/A	0.0%	0.0%	3.3	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

October
MISCELLANEOUS SPECIES
Data Table

VIII-68

Table VIII.10. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (numbers/mt)				
			MT	Per Hour	Tow	(% by weight) Hal	Her	KC	TC	Tows
180540	82	28.1	0.4	2.0	0.0%	0.0%	2.4	0.1	14	
181510	81	8.8	6.2	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
	82	6.6	3.2	N/A	0.0%	0.0%	0.0	0.0	0.0	<5
181513	81	15.7	1.4	2.6	0.1%	0.0%	0.2	0.0	6	
	82	218.1	1.9	9.9	0.0%	0.0%	2.9	0.0	22	
181520	82	451.4	1.1	6.0	0.0%	0.0%	0.8	0.0	75	
181543	82	19.9	1.2	3.3	0.0%	0.0%	7.4	0.9	6	
182513	82	6.3	0.6	N/A	0.0%	0.0%	1.6	13.5	0.0	<5
184520	82	2.7	0.6	N/A	0.0%	0.0%	6.3	0.0	<5	
185520	82	1.4	0.3	N/A	1.8%	0.0%	30.0	0.0	<5	
186520	82	18.2	0.3	1.7	0.1%	0.0%	8.8	1.0	11	
187520	82	4.4	0.3	N/A	0.0%	0.0%	0.9	0.2	<5	
187523	82	0.7	0.1	N/A	0.0%	0.0%	0.0	1.4	0.0	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. Data used to prepare CPUE and bycatch rate charts for November.

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates			KC	TC	Tows
			MT	Hour	Tow	(% by weight) Hal	Her			
158573	84	4.1	0.7	N/A		2.0%	0.0%	0.0	0.2	<5
159563	84	6.8	1.3	N/A		2.2%	0.0%	0.9	7.6	<5
	85	335.8	1.3	6.2		2.9%	0.0%	3.4	3.6	54
159570	84	158.8	1.3	6.4		1.7%	0.0%	0.9	4.2	25
	85	282.4	1.5	7.2		2.5%	0.0%	1.6	11.2	39
159573	84	34.7	1.1	5.8		1.4%	0.0%	1.2	2.8	6
163563	85	65.0	11.5	N/A		0.3%	0.0%	1.8	1.2	<5
163570	84	59.2	4.2	N/A		0.1%	0.0%	0.4	2.3	<5
163573	84	17.6	1.8	N/A		0.0%	0.0%	1.8	0.1	<5
164553	82	10.6	2.5	N/A		0.2%	0.0%	0.0	0.0	<5
	86	81.9	8.0	N/A		0.2%	0.0%	0.3	0.4	<5
164563	84	4.8	0.5	N/A		0.0%	0.0%	1.3	0.6	<5
	85	72.3	6.3	N/A		0.3%	0.0%	0.9	1.1	<5
164570	83	17.3	2.4	N/A		0.1%	0.0%	0.1	13.8	<5
165540	89	23.1	0.9	4.6		2.6%	0.0%	0.0	2.9	5
165543	81	25.1	5.9	N/A		0.0%	0.0%	0.0	0.0	<5
	82	43.4	1.3	6.2		1.7%	0.0%	0.1	5.5	7
	83	71.3	1.7	4.8		1.5%	0.0%	0.0	2.7	15
	84	38.2	1.8	N/A		0.3%	0.0%	7.8	1.4	<5
	85	26.6	0.8	4.4		1.9%	0.0%	0.0	3.3	6
	88	4.4	1.5	N/A		5.0%	0.0%	0.0	1.1	<5
	89	219.6	3.2	10.0		5.2%	0.0%	0.0	17.6	22
165550	86	5.0	1.0	N/A		3.0%	0.0%	1.8	1.0	<5
	89	29.1	2.5	N/A		0.8%	0.0%	0.0	44.5	<5
165553	82	11.9	1.9	N/A		4.3%	0.0%	0.0	0.0	<5
	84	1.8	0.3	N/A		19.4%	0.0%	0.0	12.2	<5
165560	84	2.2	0.6	N/A		3.7%	0.0%	0.0	5.0	<5
165563	83	71.8	5.3	N/A		0.2%	0.0%	0.0	9.0	<5
	85	3.0	0.6	N/A		1.8%	0.0%	0.0	30.3	<5
	86	20.0	4.0	N/A		0.1%	0.0%	0.0	7.9	<5
165570	83	35.2	5.7	N/A		0.1%	0.0%	0.1	2.5	<5
165573	83	35.0	7.1	N/A		0.0%	0.0%	0.0	5.1	<5
	84	1.3	0.5	N/A		1.0%	0.0%	0.0	5.4	<5
166540	82	13.4	0.5	2.2		0.7%	0.0%	0.1	22.2	6
	83	162.2	0.6	3.2		0.1%	0.0%	0.1	35.6	51
	84	47.3	0.7	3.6		0.0%	0.0%	0.3	78.2	13
	85	40.2	1.1	5.7		0.0%	0.0%	0.0	9.5	7
	86	3.2	0.5	N/A		0.0%	0.0%	0.0	32.8	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

November
MISCELLANEOUS SPECIES
Data Table

VIII-70

Table VIII.11. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates			
		Catch	MT	MT Per		(% by weight)		(numbers/mt)	
				Hour	Tow	Hal	Her	KC	TC
166543	81	31.1	7.8	N/A	2.4%	0.0%	0.0	3.6	<5
	82	149.3	0.6	8.8	0.6%	0.0%	0.1	0.8	17
	83	68.3	0.4	1.6	9.7%	0.0%	0.5	12.2	44
	84	130.4	0.9	4.8	4.4%	0.0%	4.1	7.0	27
	85	5.0	1.3	N/A	2.5%	0.0%	0.0	0.0	<5
	89	26.9	1.1	3.8	3.3%	0.0%	0.0	74.8	7
166550	83	1.8	0.9	N/A	11.6%	0.0%	0.0	5.6	<5
	89	14.0	3.5	N/A	0.3%	0.0%	0.0	50.5	<5
166553	83	0.8	0.3	N/A	5.3%	0.0%	0.0	20.0	<5
166563	83	0.4	0.3	N/A	9.2%	0.0%	0.0	205.0	<5
	87	8.8	0.8	N/A	2.5%	0.0%	0.0	36.5	<5
166570	86	16.4	2.3	N/A	0.8%	0.0%	0.0	53.0	<5
167540	82	146.5	1.0	5.9	0.0%	0.0%	0.0	41.5	25
	83	270.5	0.5	3.1	0.0%	0.0%	0.1	82.3	88
	84	147.4	0.7	3.3	0.0%	0.0%	0.2	213.6	45
	85	152.4	1.0	4.9	0.0%	0.0%	0.0	56.5	31
	86	59.5	1.3	7.4	0.1%	0.0%	0.0	19.4	8
	82	83.5	0.7	3.3	0.7%	0.0%	0.0	39.5	25
167543	83	379.2	0.5	2.6	0.5%	0.0%	0.1	56.2	145
	84	106.8	0.7	3.6	0.5%	0.0%	0.6	192.7	30
	85	142.3	1.0	4.9	0.0%	0.0%	0.1	55.2	29
	86	35.9	1.0	6.0	0.0%	0.0%	0.0	28.6	6
	82	2.6	0.2	N/A	5.2%	0.0%	0.4	4.6	<5
167550	83	53.1	0.5	2.1	3.7%	0.0%	0.1	13.1	25
	84	16.6	0.7	3.3	6.3%	0.0%	0.2	28.7	5
	85	63.4	0.9	4.2	0.1%	0.0%	0.2	8.1	15
	89	152.2	5.2	19.0	0.7%	0.0%	0.0	4.6	8
	84	1.1	0.6	N/A	0.2%	0.0%	0.0	45.5	<5
167560	89	22.7	7.4	N/A	0.3%	0.0%	0.0	2.3	<5
	87	3.6	0.6	N/A	2.9%	0.0%	0.0	109.4	<5
167563	86	7.3	1.1	N/A	1.7%	0.0%	0.0	210.8	<5
167570	83	3.2	1.5	N/A	0.3%	0.0%	0.3	2.8	<5
167573	88	19.4	3.2	N/A	2.3%	0.0%	0.1	2.7	<5
168540	83	12.2	N/A	N/A	0.0%	0.0%	0.0	39.7	<5
	84	13.5	1.3	N/A	0.0%	0.0%	0.5	29.6	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
168550	82	13.8	0.5	2.3	0.0%	0.0%	0.1	21.7	6
	83	93.8	0.6	2.8	1.6%	0.0%	0.2	19.6	33
	84	27.8	0.7	3.5	0.4%	0.0%	1.0	43.2	8
	85	38.4	0.8	3.5	0.2%	0.0%	0.2	9.2	11
	86	13.8	0.8	N/A	0.0%	0.0%	0.0	11.7	<5
	89	68.8	7.1	N/A	0.4%	0.0%	0.3	0.0	<5
168553	82	56.5	0.7	3.3	0.3%	0.0%	0.8	17.6	17
	83	115.5	0.7	2.6	3.2%	0.0%	1.6	26.7	44
	84	128.2	0.6	3.0	1.2%	0.0%	1.0	31.4	43
	85	20.2	1.2	N/A	0.0%	0.0%	0.8	22.4	<5
	86	14.3	0.7	N/A	2.3%	0.0%	0.0	7.3	<5
	89	4.0	1.1	N/A	1.0%	0.0%	0.0	0.0	<5
168560	82	20.3	0.9	4.1	0.3%	0.0%	2.1	21.2	5
	83	2.9	0.5	N/A	7.8%	0.0%	5.9	23.4	<5
	84	1.7	0.3	N/A	0.0%	0.0%	4.7	27.1	<5
	87	31.6	2.8	N/A	1.1%	0.0%	0.0	8.7	<5
168563	83	0.8	0.2	N/A	13.3%	0.0%	3.8	220.0	<5
	87	11.3	4.2	N/A	0.8%	0.0%	0.0	4.8	<5
169530	81	47.5	2.2	2.6	1.4%	0.0%	0.1	0.1	18
169553	82	3.4	0.6	N/A	0.0%	0.0%	1.5	45.3	<5
	84	19.0	0.7	3.8	0.0%	0.0%	2.2	101.1	5
169560	81	3.8	0.8	N/A	0.2%	0.0%	0.0	0.0	<5
	82	142.7	1.0	4.6	0.6%	0.0%	3.0	4.9	31
	83	9.1	0.9	N/A	1.1%	0.0%	4.3	25.7	<5
	84	8.6	0.7	N/A	0.3%	0.0%	13.1	2.3	<5
	85	7.0	2.3	N/A	1.0%	0.0%	0.0	1.0	<5
	87	6.8	3.3	N/A	1.4%	0.0%	0.0	0.1	<5
169570	89	197.3	4.1	19.7	0.4%	0.0%	1.9	79.2	10
169573	87	16.2	1.6	N/A	2.4%	0.0%	3.8	264.4	<5
170520	81	8.8	1.3	N/A	1.2%	0.0%	2.4	0.0	<5
170523	81	9.0	2.0	N/A	11.8%	0.0%	0.0	0.0	<5
	82	4.0	0.8	N/A	0.0%	0.0%	0.8	0.0	<5
	83	63.6	0.7	2.9	0.9%	0.0%	2.6	0.2	22
	84	84.8	0.9	3.7	0.9%	0.0%	0.7	0.0	23
170530	81	3.5	1.4	N/A	4.5%	0.0%	0.0	0.0	<5
	82	8.3	1.5	N/A	0.1%	0.0%	2.9	0.0	<5
	83	18.2	1.1	3.6	0.9%	0.0%	2.6	0.0	5
	84	80.4	1.7	6.7	0.9%	0.0%	0.4	0.0	12

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

November
MISCELLANEOUS SPECIES
Data Table

VIII-72

Table VIII.11. (Continued.)

Block	Yr	Observed		Total CPUEs			Bycatch Rates			
		Catch	MT	MT Per		(% by weight)		(numbers/mt)		
				Hour	Tow	Hal	Her	KC	TC	Tows
170553	81	56.1	1.2	6.2	1.0%	0.0%		3.7	0.8	9
	84	12.4	1.0	N/A	0.0%	0.0%		16.9	20.4	<5
170560	81	57.4	0.9	4.8	2.1%	0.0%		21.5	0.1	12
	83	9.1	0.5	1.5	6.1%	0.0%		4.6	22.5	6
	84	58.8	1.3	5.3	0.3%	0.0%		1.4	4.1	11
171513	81	19.0	1.3	2.1	0.4%	0.0%		0.0	0.0	9
	82	352.6	35.3	19.6	0.0%	0.0%		0.0	0.0	18
171520	81	22.6	1.5	4.5	0.2%	0.0%		0.0	0.0	5
	82	152.6	11.2	11.7	0.1%	0.0%		0.0	0.0	13
	83	3.5	0.9	N/A	1.5%	0.0%		0.0	0.0	<5
	84	6.1	2.0	N/A	0.1%	0.0%		0.0	0.0	<5
171523	81	18.7	9.0	N/A	0.0%	0.0%		0.0	0.0	<5
	83	1.6	0.5	N/A	0.6%	0.0%		3.8	0.0	<5
	84	3.2	2.6	N/A	0.5%	0.0%		0.9	0.0	<5
171560	81	24.1	0.5	2.4	0.4%	0.0%		1.1	9.6	10
	82	44.9	0.3	2.1	2.9%	0.0%		5.4	16.5	21
	83	191.2	0.3	1.8	1.3%	0.0%		0.8	21.0	106
	84	35.2	1.2	3.5	0.8%	0.0%		1.3	4.2	10
	85	31.6	1.7	5.3	1.4%	0.0%		0.4	1.7	6
	86	61.8	0.9	5.2	1.2%	0.0%		0.0	4.3	12
	87	26.4	0.9	3.8	2.8%	0.0%		0.0	2.9	7
171563	81	1.9	0.4	N/A	0.0%	0.0%		0.0	6.3	<5
	82	6.2	0.4	N/A	0.8%	0.0%		6.1	5.8	<5
	84	8.3	0.9	N/A	0.1%	0.0%		0.0	0.0	<5
	86	2.8	0.7	N/A	0.3%	0.0%		0.0	18.9	<5
171580	85	6.2	1.6	N/A	0.5%	0.0%		0.0	204.4	<5
172513	81	102.2	111.5	N/A	0.3%	0.0%		0.0	0.0	<5
172520	81	0.8	0.6	N/A	5.3%	0.0%		1.3	0.0	<5
	87	42.5	22.2	N/A	0.0%	0.0%		0.0	0.0	<5
172560	81	14.3	0.8	N/A	1.3%	0.0%		1.3	9.2	<5
	82	8.1	0.2	1.6	1.5%	0.0%		2.3	14.1	5
	83	106.4	0.3	1.8	1.2%	0.0%		0.4	30.1	59
	84	6.7	0.4	N/A	0.0%	0.0%		12.7	145.2	<5
	85	3.7	1.0	N/A	1.4%	0.0%		0.0	1.6	<5
	86	11.8	0.9	N/A	0.3%	0.0%		0.0	10.4	<5
	87	2.9	0.6	N/A	0.0%	0.0%		0.0	6.2	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT	Hour	Tow	(% by weight)		(numbers/mt)		
						Hal	Her	KC	TC	Tows
172563	81	38.6	0.4	1.9	2.2%	0.0%	1.0	13.6	20	
	82	212.9	0.4	2.6	1.7%	0.0%	2.9	14.4	82	
	83	169.2	0.3	1.6	1.7%	0.0%	0.5	19.2	103	
	84	40.7	0.6	2.7	0.6%	0.0%	1.1	10.1	15	
	85	115.5	4.1	23.1	0.1%	0.0%	0.1	0.0	5	
	86	100.6	1.4	6.7	0.6%	0.0%	0.0	3.7	15	
	87	37.8	1.2	6.3	0.4%	0.0%	0.0	29.6	6	
173560	83	4.8	0.3	N/A	5.9%	0.0%	0.2	33.8	<5	
	84	0.9	0.3	N/A	1.1%	0.0%	4.4	174.4	<5	
173563	81	13.2	0.4	1.9	0.8%	0.0%	1.8	44.4	7	
	82	108.1	0.4	2.4	1.8%	0.0%	0.5	9.2	46	
	83	240.1	0.3	1.7	1.7%	0.0%	0.6	67.4	140	
	84	20.0	0.6	2.5	1.3%	0.0%	0.6	1.5	8	
	85	56.9	2.1	11.4	0.1%	0.0%	0.1	0.2	5	
	86	123.9	1.2	6.2	0.9%	0.0%	0.1	0.7	20	
	87	10.7	1.3	N/A	0.1%	0.0%	0.1	0.3	<5	
173570	81	58.7	1.0	4.5	1.1%	0.0%	0.6	14.6	13	
	82	133.7	0.4	2.6	1.7%	0.0%	2.7	9.7	52	
	83	291.2	0.3	1.7	1.8%	0.0%	0.4	72.1	173	
	84	46.6	0.7	2.9	1.7%	0.0%	0.6	5.6	16	
	85	74.1	0.9	5.7	0.2%	0.0%	0.1	0.9	13	
	86	236.3	1.6	8.8	0.6%	0.0%	0.1	1.7	27	
	87	38.7	1.5	7.7	1.3%	0.0%	0.0	0.4	5	
173573	82	92.8	0.7	3.6	1.8%	0.0%	1.8	8.6	26	
	83	13.5	0.3	1.5	3.6%	0.0%	0.3	14.1	9	
	84	44.0	1.2	4.0	4.2%	0.0%	1.9	1.1	11	
	85	23.9	1.1	4.8	3.1%	0.0%	0.5	17.7	5	
	86	7.0	1.1	N/A	1.2%	0.0%	0.0	1.3	<5	
	87	15.6	2.3	N/A	33.6%	0.0%	0.1	0.0	<5	
174570	83	3.4	0.6	N/A	0.0%	0.0%	0.0	18.8	<5	
174573	82	5.2	0.6	N/A	1.1%	0.0%	3.8	9.2	<5	
	83	148.7	0.5	2.5	2.1%	0.0%	0.5	12.4	59	
	84	27.4	1.4	3.4	0.2%	0.0%	3.9	8.3	8	
	85	10.2	0.7	N/A	4.9%	0.0%	0.2	1.8	<5	
174580	84	91.6	0.9	3.4	1.5%	0.0%	1.5	13.5	27	
174583	84	16.5	1.0	N/A	3.8%	0.0%	0.7	13.3	<5	

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

VIII-74

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. (Continued.)

Block	Yr	Observed		Total CPUEs		Bycatch Rates			Tows	
		Catch	MT	MT Per		(% by weight)		(numbers/mt)		
				Hour	Tow	Hal	Her	KC		
175580	81	1.1	0.2	N/A	0.0%	0.0%	0.0%	1.8	28.2	<5
	82	61.7	0.3	1.7	0.7%	0.0%	0.0%	1.0	37.6	37
	83	181.7	0.4	2.1	0.9%	0.0%	0.0%	0.5	27.3	86
	84	112.9	0.8	4.0	0.1%	0.0%	0.0%	0.4	18.9	28
	85	172.0	0.9	5.5	0.7%	0.0%	0.0%	0.1	7.6	31
	86	229.2	1.6	8.2	0.2%	0.0%	0.0%	0.0	2.3	28
	87	55.9	1.8	9.3	0.1%	0.0%	0.0%	0.0	3.8	6
175583	82	64.1	0.4	2.3	1.5%	0.0%	0.0%	0.6	17.0	28
	83	225.2	0.4	2.2	1.6%	0.0%	0.0%	0.1	29.8	102
	84	88.5	0.7	3.8	0.4%	0.0%	0.0%	0.1	14.7	23
	85	145.8	1.2	6.1	0.8%	0.0%	0.0%	0.1	2.8	24
	86	105.9	2.6	11.8	0.3%	0.0%	0.0%	0.0	2.9	9
	87	214.7	1.7	8.3	1.5%	0.0%	0.0%	0.0	4.9	26
175603	84	0.5	0.5	N/A	0.0%	0.0%	0.0%	0.0	88.0	<5
176583	81	1.3	0.2	N/A	0.0%	0.0%	0.0%	0.8	284.6	<5
	82	15.2	0.3	1.7	0.5%	0.0%	0.0%	1.4	12.7	9
	83	80.9	0.3	1.5	0.6%	0.0%	0.0%	0.8	17.7	53
	84	32.6	0.5	3.0	0.8%	0.0%	0.0%	0.6	30.2	11
	85	76.8	0.7	4.3	0.1%	0.0%	0.0%	0.1	8.6	18
	86	47.2	2.5	N/A	0.4%	0.0%	0.0%	0.0	0.6	<5
	87	9.2	0.6	N/A	1.0%	0.0%	0.0%	0.0	16.7	<5
176590	87	23.2	0.7	4.6	3.5%	0.0%	0.0%	0.0	25.3	5
177583	81	2.3	0.4	N/A	0.0%	0.0%	0.0%	1.3	14.3	<5
	82	37.3	0.9	4.1	0.1%	17.9%	2.1	4.2	9	
	83	162.8	0.5	2.9	0.4%	0.0%	2.7	18.8	56	
	84	25.9	0.7	3.2	0.8%	0.0%	2.2	7.3	8	
	85	185.2	0.9	5.0	0.4%	0.0%	0.6	2.2	37	
	86	23.0	1.2	N/A	3.5%	0.0%	0.0	0.1	<5	
	87	62.5	0.8	4.5	2.0%	0.0%	0.1	8.5	14	
177590	82	27.5	0.6	3.4	0.6%	0.0%	8.0	12.2	8	
	83	190.1	0.4	2.5	1.2%	0.0%	3.0	20.4	75	
	84	27.5	0.8	3.9	1.9%	0.0%	20.8	52.8	7	
	85	129.8	0.9	4.8	0.7%	0.0%	1.4	3.2	27	
	86	91.2	1.1	4.8	1.6%	0.0%	0.1	1.2	19	
	87	109.3	0.8	5.5	4.5%	0.0%	0.0	5.1	20	
177593	83	6.6	0.3	N/A	0.4%	0.0%	3.0	17.3	<5	
	84	6.0	0.6	N/A	0.8%	0.0%	1.3	0.0	<5	
	85	71.1	1.2	7.1	0.7%	0.0%	2.2	5.8	10	
	86	3.5	0.8	N/A	5.8%	0.0%	0.0	1.4	<5	
	87	48.0	1.6	8.0	1.1%	0.0%	0.0	12.8	6	

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT Per		(% by weight)		(numbers/mt)		
			Hour	Tow	Hal	Her	KC	TC	Tows
178580	83	0.8	0.1	N/A	0.0%	0.0%	2.5	5.0	<5
178583	82	6.3	0.3	N/A	1.0%	0.0%	56.0	25.1	<5
	83	157.7	0.4	2.3	0.9%	0.0%	3.6	42.5	70
	84	13.6	0.6	N/A	0.0%	0.0%	3.4	6.9	<5
	85	87.4	0.8	4.6	0.4%	0.0%	0.6	0.6	19
	86	21.2	1.2	N/A	0.0%	0.0%	0.3	1.3	<5
178590	82	20.0	0.4	2.5	1.2%	0.3%	17.1	36.8	8
	83	77.8	0.3	1.9	1.8%	0.0%	6.6	9.7	40
	84	95.2	0.8	4.1	0.7%	0.0%	5.2	14.4	23
	85	105.4	0.7	3.6	0.6%	0.0%	4.8	3.3	29
	86	20.1	1.4	N/A	0.4%	0.0%	0.2	1.5	<5
	87	7.6	0.6	N/A	0.2%	0.0%	1.7	59.7	<5
178593	82	50.9	0.4	2.7	0.1%	0.0%	2.8	13.5	19
	83	126.9	0.2	1.5	0.2%	0.0%	20.6	27.0	85
	84	103.2	0.6	3.1	0.0%	0.0%	5.3	10.4	33
	85	631.8	1.9	10.5	1.4%	5.0%	0.9	2.3	60
	86	131.0	1.2	6.0	0.1%	0.0%	5.4	3.2	22
	87	19.6	0.7	3.9	1.8%	0.0%	0.6	5.7	5
178600	82	72.9	0.5	3.5	1.8%	8.0%	2.1	13.6	21
	83	174.4	0.3	2.1	2.0%	0.0%	1.8	30.1	83
	84	95.9	0.7	3.7	0.1%	0.0%	2.0	14.6	26
	85	404.5	1.7	10.9	1.6%	0.1%	0.7	12.0	37
	86	35.9	2.0	N/A	0.0%	0.0%	0.4	0.7	<5
	87	12.4	1.0	N/A	1.5%	0.3%	1.0	19.8	<5
178603	82	2.3	0.5	N/A	2.8%	0.0%	15.2	57.8	<5
	83	10.5	0.3	2.1	0.2%	0.0%	0.8	4.9	5
	85	124.4	1.6	10.4	1.4%	0.2%	0.9	19.9	12
	86	17.0	3.4	N/A	0.0%	0.0%	4.8	6.8	<5
	87	14.0	1.4	N/A	1.2%	0.1%	0.1	13.9	<5
179523	83	4.4	1.3	N/A	0.3%	0.0%	0.0	0.2	<5
	84	1.5	0.4	N/A	0.2%	0.0%	4.0	0.0	<5
179593	83	0.7	0.1	N/A	0.0%	0.0%	12.9	4.3	<5
	84	1.3	0.3	N/A	0.0%	0.0%	15.4	85.4	<5
179600	82	46.5	0.8	4.7	0.1%	0.0%	1.9	13.0	10
	83	114.4	0.6	3.4	0.2%	0.0%	7.4	30.1	34
	84	8.4	0.4	N/A	0.0%	0.0%	4.9	5.6	<5
	85	105.0	2.5	13.1	0.2%	0.0%	0.5	0.1	8
	86	7.5	1.5	N/A	0.3%	0.0%	3.2	2.9	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*

November
MISCELLANEOUS SPECIES
Data Table

Table VIII.11. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates					
			MT	Hour	Tow	(% by weight)	Hal	Her	KC	TC
179603	82	48.3	0.3	2.4	0.3%	0.0%	5.3	18.8	20	
	83	161.9	0.3	1.7	1.8%	0.0%	1.9	28.9	96	
	84	110.2	0.7	4.1	0.3%	0.0%	9.8	15.6	27	
	85	99.8	2.5	16.6	0.8%	0.0%	0.7	3.4	6	
180513	82	13.6	1.0	N/A	0.3%	0.0%	4.2	0.1	<5	
	83	119.6	1.9	13.3	0.0%	0.0%	3.1	0.4	9	
180520	82	62.8	0.9	5.7	0.1%	0.0%	4.0	0.1	11	
	83	48.5	1.2	6.9	0.2%	0.0%	1.3	0.0	7	
	84	30.1	0.7	3.3	6.2%	0.0%	5.3	0.0	9	
180523	82	5.7	2.9	N/A	0.0%	0.0%	0.4	0.0	<5	
	83	8.3	1.9	N/A	0.9%	0.0%	0.4	0.1	<5	
	84	2.8	0.5	N/A	6.5%	0.0%	2.9	0.0	<5	
180533	83	4.2	1.1	N/A	0.0%	0.0%	0.2	0.0	<5	
180540	82	4.7	0.7	N/A	0.0%	0.0%	1.7	0.0	<5	
181513	83	107.0	2.1	11.9	0.2%	0.0%	1.9	0.1	9	
	84	7.6	0.4	N/A	0.3%	0.0%	5.8	1.4	<5	
181520	82	33.8	1.5	N/A	0.0%	0.0%	0.9	0.0	<5	
	83	188.0	1.6	10.4	0.0%	0.0%	2.5	0.0	18	
182513	83	4.4	0.3	N/A	0.0%	0.0%	4.1	15.9	<5	
	84	1.8	0.5	N/A	0.1%	0.0%	7.2	0.0	<5	
184520	84	1.6	0.5	N/A	0.7%	0.0%	2.5	0.0	<5	
189530	83	1.7	0.6	N/A	0.0%	0.0%	1.8	5.9	<5	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

December
MISCELLANEOUS SPECIES
Data Table

Table VIII.12. Data used to prepare CPUE and bycatch rate charts for December.

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Hour	Tow	(% by weight)	(numbers/mt)	KC	TC
158570	84	7.8	1.6	N/A	3.1%	0.0%	0.1	3.1	<5
159563	84	313.1	1.4	7.1	0.5%	0.0%	4.9	6.7	44
	85	108.3	1.1	5.2	2.3%	0.0%	2.0	3.7	21
159570	84	114.9	1.0	5.0	1.7%	0.0%	4.0	8.6	23
	85	470.1	1.4	6.8	1.4%	0.0%	3.2	9.3	69
162553	88	5.6	0.7	N/A	3.2%	0.0%	5.2	16.1	<5
163550	88	3.1	1.7	N/A	0.8%	0.0%	0.0	4.2	<5
163553	88	15.6	7.8	N/A	1.1%	0.0%	0.0	0.6	<5
163560	88	23.0	2.1	N/A	3.1%	0.0%	7.5	1.5	<5
163563	83	71.7	2.5	12.0	0.8%	0.0%	0.3	28.7	6
163570	84	11.5	2.3	N/A	0.5%	0.0%	0.0	0.3	<5
164543	88	4.8	2.4	N/A	0.7%	0.0%	0.0	0.0	<5
164550	88	84.5	2.6	9.4	3.2%	0.0%	0.0	4.6	9
164563	83	107.7	3.3	13.5	1.2%	0.0%	0.0	8.6	8
	84	28.3	2.0	N/A	0.3%	0.0%	0.1	4.6	<5
164570	83	40.0	8.0	N/A	0.2%	0.0%	0.0	4.1	<5
	84	135.0	10.3	N/A	0.1%	0.0%	0.0	0.6	<5
165540	88	1.8	0.8	N/A	2.9%	0.0%	0.0	0.0	<5
165543	88	285.0	4.4	13.6	4.7%	0.0%	0.0	26.3	21
	89	82.3	3.3	11.8	9.2%	0.0%	0.0	44.4	7
165550	88	65.4	N/A	N/A	0.7%	0.0%	0.0	5.7	<5
	89	8.6	4.7	N/A	11.3%	0.0%	0.0	2.4	<5
165563	83	71.7	2.3	9.0	1.3%	0.0%	0.0	23.2	8
	85	35.8	2.1	N/A	1.1%	0.0%	0.0	10.4	<5
165570	82	18.1	3.3	N/A	0.3%	0.0%	0.4	4.0	<5
165573	83	53.7	6.6	N/A	0.3%	0.0%	0.1	4.9	<5
166543	88	30.0	4.0	N/A	7.1%	0.0%	0.0	86.6	<5
166560	85	3.0	0.8	N/A	3.8%	0.0%	- 0.0	4.7	<5
166563	83	23.2	2.7	N/A	2.0%	0.0%	0.0	51.0	<5
	85	12.2	2.4	N/A	1.6%	0.0%	0.0	3.4	<5
166570	83	3.4	1.6	N/A	1.5%	0.0%	0.0	11.2	<5
	86	20.7	5.9	N/A	1.0%	0.0%	0.0	13.5	<5
166580	84	10.2	2.5	N/A	0.0%	0.0%	0.0	0.0	<5
167533	89	5.3	4.0	N/A	2.0%	0.0%	0.0	2.5	<5
167540	84	3.9	0.8	N/A	0.0%	0.0%	0.0	173.1	<5
	85	7.5	1.2	N/A	0.0%	0.0%	0.0	14.7	<5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

December
MISCELLANEOUS SPECIES
Data Table

VIII-78

Table VIII.12. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (numbers/mt)		
			MT	Hour	Tow	(% by weight) Hal	Her	KC
167560	83	3.0	0.8	N/A	22.9%	0.0%	0.0	248.7
167563	83	2.4	0.7	N/A	8.6%	0.0%	0.0	20.4
167580	84	17.4	3.9	N/A	0.0%	0.0%	0.0	0.0
168550	85	6.0	1.1	N/A	0.0%	0.0%	0.0	12.3
168553	82	14.4	0.4	2.4	0.4%	0.0%	5.0	35.7
	83	49.9	0.5	2.5	5.3%	0.0%	3.6	122.0
	84	12.2	0.6	N/A	0.0%	0.0%	1.3	85.6
	85	13.0	0.8	N/A	0.9%	0.0%	0.5	12.8
168560	82	5.6	0.9	N/A	0.0%	0.0%	1.1	13.0
	83	39.8	0.7	2.1	2.2%	0.0%	1.8	27.9
	84	5.2	0.6	N/A	14.9%	0.2%	0.0	198.3
	89	40.5	1.9	8.1	9.6%	0.0%	0.0	8.4
168563	86	4.0	2.7	N/A	13.3%	0.0%	0.0	21.8
	89	9.2	1.4	N/A	9.4%	0.0%	0.0	29.8
168573	86	7.0	1.4	N/A	1.2%	0.0%	0.1	53.7
	89	71.3	8.9	N/A	0.1%	0.0%	0.6	2.8
169530	81	4.2	3.8	N/A	0.0%	0.0%	0.0	0.0
169553	83	13.9	0.5	2.8	1.0%	0.0%	2.6	48.7
169560	82	47.6	1.6	7.9	5.2%	0.0%	3.2	0.3
	83	62.9	0.9	3.0	5.0%	0.0%	2.4	30.6
	84	43.8	1.7	7.3	4.4%	0.0%	0.0	7.7
	85	16.7	1.7	N/A	1.4%	0.0%	0.0	33.8
	86	3.0	0.7	N/A	1.5%	0.0%	4.0	29.7
	89	184.6	3.6	14.2	4.7%	0.0%	0.0	0.3
169563	86	11.0	1.6	N/A	1.0%	0.0%	3.6	7.6
	89	212.3	5.4	30.3	0.8%	0.0%	1.6	73.5
169570	89	226.4	13.2	28.3	0.9%	0.0%	0.7	33.8
169573	86	37.0	2.3	N/A	0.4%	0.0%	0.2	27.8
169580	85	2.3	2.5	N/A	15.1%	0.0%	0.0	0.0
170523	83	9.7	0.9	N/A	3.3%	0.0%	9.5	0.0
170553	82	14.1	1.2	N/A	5.5%	0.0%	6.5	2.9
	85	4.3	0.8	N/A	5.6%	0.0%	1.6	16.5
170560	81	13.9	2.4	N/A	0.7%	0.0%	0.0	0.1
	82	11.4	1.2	N/A	2.4%	0.0%	0.0	0.0
	83	6.8	2.6	N/A	0.8%	0.0%	1.6	4.9
170570	82	4.1	0.7	N/A	2.4%	0.0%	1.7	79.0
170580	84	3.3	1.1	N/A	4.9%	0.0%	0.6	311.8

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

December
MISCELLANEOUS SPECIES
Data Table

Table VIII.12. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs		Bycatch Rates				
			MT	Hour	MT Per Tow		(% by weight)		
					Hal	Her	KC	TC	Tows
171513	81	2.8	3.7	N/A	1.3%	0.0%	0.0	0.0	<5
	82	139.5	9.6	10.0	0.0%	0.0%	0.0	0.0	14
171520	81	4.1	12.3	N/A	0.0%	0.0%	0.0	0.0	<5
	82	174.3	5.2	6.5	0.0%	0.0%	0.0	0.0	27
171560	81	19.6	1.2	N/A	0.2%	0.0%	0.1	44.4	<5
	82	10.2	0.3	1.5	7.1%	0.0%	2.4	15.6	7
	83	32.3	0.4	2.5	0.5%	0.0%	1.0	15.9	13
	84	4.4	0.9	N/A	0.0%	0.0%	4.5	13.6	<5
	85	7.1	0.9	N/A	2.6%	0.0%	0.7	4.8	<5
	86	12.7	1.0	N/A	0.0%	0.0%	0.0	13.1	<5
171563	82	52.9	0.7	4.1	0.9%	0.0%	0.0	40.5	13
172560	81	1.8	0.4	N/A	0.0%	0.0%	1.1	16.1	<5
	82	16.2	0.8	N/A	0.1%	0.0%	1.3	9.0	<5
	83	2.4	0.4	N/A	0.0%	0.0%	0.0	105.0	<5
172563	81	26.4	0.9	3.8	0.9%	0.0%	0.8	21.3	7
	82	118.0	0.7	3.5	0.6%	0.0%	0.2	11.9	34
	83	58.1	0.4	2.4	4.8%	0.0%	0.9	18.3	24
	84	4.7	0.9	N/A	0.8%	0.0%	1.1	10.4	<5
	85	25.5	2.1	N/A	0.8%	0.0%	0.2	1.6	<5
173560	83	2.7	0.4	N/A	0.0%	0.0%	0.7	39.3	<5
173563	82	34.1	0.6	3.4	4.4%	0.0%	0.3	4.6	10
	83	92.8	0.3	1.8	3.4%	0.0%	0.2	19.9	53
	84	2.5	0.5	N/A	2.7%	0.0%	0.4	3.2	<5
	85	41.8	1.5	8.4	0.6%	0.0%	0.2	1.7	5
173570	81	5.2	0.5	N/A	0.2%	0.0%	0.4	19.6	<5
	82	56.2	0.6	3.3	11.4%	0.0%	1.3	11.5	17
	83	130.4	0.3	1.7	4.1%	0.0%	0.4	16.3	77
	84	1.2	0.7	N/A	4.5%	0.8%	0.0	0.8	<5
	85	58.2	1.4	7.3	0.3%	0.0%	0.1	4.8	8
173573	83	18.6	0.5	2.7	0.2%	0.0%	0.8	17.2	7
174570	83	4.5	0.8	N/A	0.4%	0.0%	0.0	14.9	<5
174573	82	2.6	0.7	N/A	29.4%	0.0%	5.4	11.2	<5
	83	26.3	0.3	1.9	1.0%	0.0%	0.5	13.4	14
175580	81	11.2	0.9	N/A	2.1%	0.0%	3.9	124.5	<5
	82	51.6	0.5	3.0	2.4%	0.0%	0.6	76.6	17
	83	102.4	0.5	3.1	0.7%	0.0%	0.3	17.2	33
	85	48.9	1.7	9.8	0.5%	0.0%	0.0	5.2	5

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

VIII-80
December
MISCELLANEOUS SPECIES
Data Table

Table VIII.12. (Continued.)

Block	Yr	Observed Catch MT	Total CPUEs			Bycatch Rates (% by weight)			(numbers/mt)		
			MT	Hour	Tow	Hal	Her	KC	TC	Tows	
175583	81	11.0	1.0	N/A		0.0%	0.0%	0.2	24.9	<5	
	82	5.5	0.6	N/A		16.8%	0.0%	3.1	11.5	<5	
	83	53.0	0.5	2.7		0.3%	0.0%	0.1	23.1	20	
	85	40.0	1.7	8.0		0.4%	0.0%	0.0	4.8	5	
176583	81	1.0	0.6	N/A		0.0%	0.0%	0.0	182.0	<5	
	82	13.5	0.6	2.7		0.0%	0.0%	0.6	11.7	5	
	83	29.3	0.3	1.7		1.9%	0.0%	0.3	10.9	17	
	85	21.1	1.4	N/A		0.9%	0.0%	0.0	6.8	<5	
177583	83	33.7	0.4	2.4		1.7%	0.0%	1.7	11.4	14	
	84	2.5	0.5	N/A		6.3%	0.0%	4.0	50.0	<5	
	85	7.0	1.6	N/A		0.1%	0.0%	0.0	1.9	<5	
177590	82	55.3	0.9	4.6		0.1%	0.0%	5.2	19.0	12	
	83	4.5	0.4	N/A		20.3%	0.0%	4.4	6.9	<5	
	84	23.4	0.8	3.9		0.1%	0.0%	0.0	33.3	6	
177593	82	3.2	0.8	N/A		0.0%	0.0%	0.0	31.6	<5	
	84	36.2	1.1	5.2		0.0%	0.0%	0.2	32.8	7	
178583	83	24.6	0.3	2.1		1.5%	0.0%	4.1	44.8	12	
	85	10.5	0.6	N/A		0.0%	0.0%	1.5	0.8	<5	
178590	82	16.7	0.8	N/A		0.8%	0.0%	37.1	28.4	<5	
	83	22.1	0.3	1.8		1.1%	0.0%	1.9	3.5	12	
	85	42.0	1.2	6.0		0.7%	0.0%	2.0	0.0	7	
178593	82	2.3	0.3	N/A		1.9%	0.0%	4.3	121.3	<5	
	83	31.8	0.2	1.6		1.5%	0.0%	4.2	32.5	20	
	85	217.2	2.1	10.3		0.8%	0.0%	1.4	1.6	21	
178600	82	11.4	0.5	N/A		1.8%	0.0%	38.2	190.4	<5	
	83	26.1	0.3	1.9		16.8%	0.0%	3.3	11.5	14	
	85	80.4	1.6	8.9		2.0%	0.0%	1.6	50.8	9	
178603	85	5.0	1.1	N/A		2.4%	0.0%	3.6	85.0	<5	
179590	83	2.0	0.3	N/A		0.0%	0.0%	0.0	4.0	<5	
179600	82	2.8	0.8	N/A		0.0%	0.0%	- 1.1	12.5	<5	
	83	20.5	0.3	1.9		0.5%	0.0%	2.5	19.9	11	
	85	17.3	1.5	N/A		0.2%	0.0%	0.6	5.0	<5	
179603	82	14.7	0.8	N/A		2.8%	0.0%	6.3	102.1	<5	
	83	13.3	0.3	1.9		4.2%	0.0%	1.1	125.0	7	
180513	83	60.1	2.8	N/A		0.1%	0.0%	2.0	0.0	<5	
180520	83	40.1	3.3	N/A		1.4%	0.0%	5.2	0.1	<5	
181513	83	69.8	6.8	N/A		0.0%	0.0%	0.0	0.0	<5	
181520	83	311.5	5.2	31.2		0.0%	0.0%	0.4	0.1	10	

Note: The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.

December
MISCELLANEOUS SPECIES
Data Table

Table VIII.12. (Continued.)

Block	Yr	Observed		Total CPUEs			Bycatch Rates				
		Catch	MT	Hour	MT Per	Tow	(% by weight)	(numbers/mt)	KC	TC	Tows
182513	81		0.6	0.2	N/A		5.0%	0.0%	0.0	1.7	<5
184520	81		3.6	1.9	N/A		0.6%	0.0%	0.3	0.0	<5

Note: *The locations of records shown in bold italics lie outside the chart boundaries in Sections III-VII.*