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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 Pacific Cod Trawl Fishery

April 1991

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Bering Sea/Aleutian Island Pacific Cod Trawl Fishery

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ABSTRACT

This report on the Bering Sea/Aleutian Islands Pacific cod 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, walleye pollock (bottom), walleye pollock (midwater), and miscellaneous species 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 Pacific cod (*Gadus macrocephalus*) 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 miscellaneous species (all others). 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.

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[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 18 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.

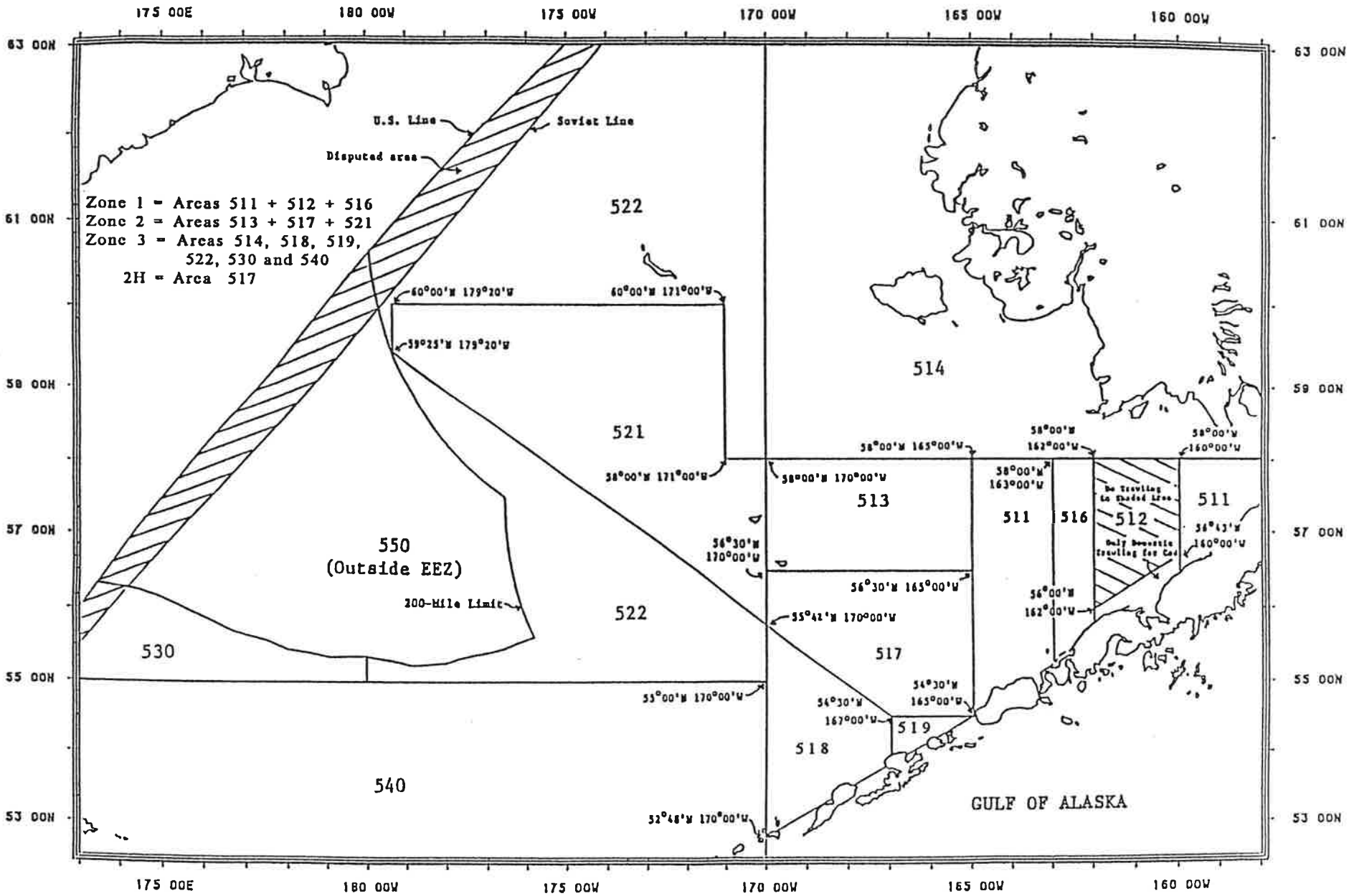


Figure 1. North Pacific Fishery Management Council management areas in the Bering Sea/Aleutian Islands region.

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:

Directed Fishery Name	Criteria (% of total catch)
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 Pacific Cod 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:

$$\text{Total CPUE (mt/hr)} = \frac{\text{Total Catch (mt)}}{\text{Towing Time (hr)}}$$

$$\text{Total CPUE (mt/tow)} = \frac{\text{Total Catch (mt)}}{\text{Number of Tows}}$$

$$\text{Target Percentage} = \frac{\text{Pacific Cod Catch (mt)}}{\text{Total Catch (mt)}} * 100$$

$$\text{Halibut Bycatch Rate (\%)} = \frac{\text{Halibut Catch (mt)}}{\text{Total Catch (mt)}} * 100$$

$$\text{Herring Bycatch Rate (\%)} = \frac{\text{Herring Catch (mt)}}{\text{Total Catch (mt)}} * 100$$

$$\text{King Crab Bycatch Rate} = \frac{\text{King Crab Catch (animals)}}{\text{Total Catch (mt)}}$$

$$\text{Tanner Crab Bycatch Rate} = \frac{\text{Tanner Crab Catch (animals)}}{\text{Total Catch (mt)}}$$

where

Total Catch = Total catch, including prohibited species.

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,

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.9 summarize total observed catch, number of observed tows, CPUEs, bycatch rates, and Pacific cod percentage 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). Pacific cod percentages were calculated by dividing total Pacific cod catches (summed over each Month/Year) by total catches (summed over each Month/Year).

Tables II.10 through II.18 list the Month/Block/Year records with the highest observed catch, number of observed tows, CPUEs, Pacific cod percentages, 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 (e.g., Pacific Cod), 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 read the chart. CPUEs are presented as bar graphs in which the total bar length reflects total CPUE and the filled portion represents the Pacific cod CPUE. Bar graphs for prohibited species bycatch rates are filled throughout. 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

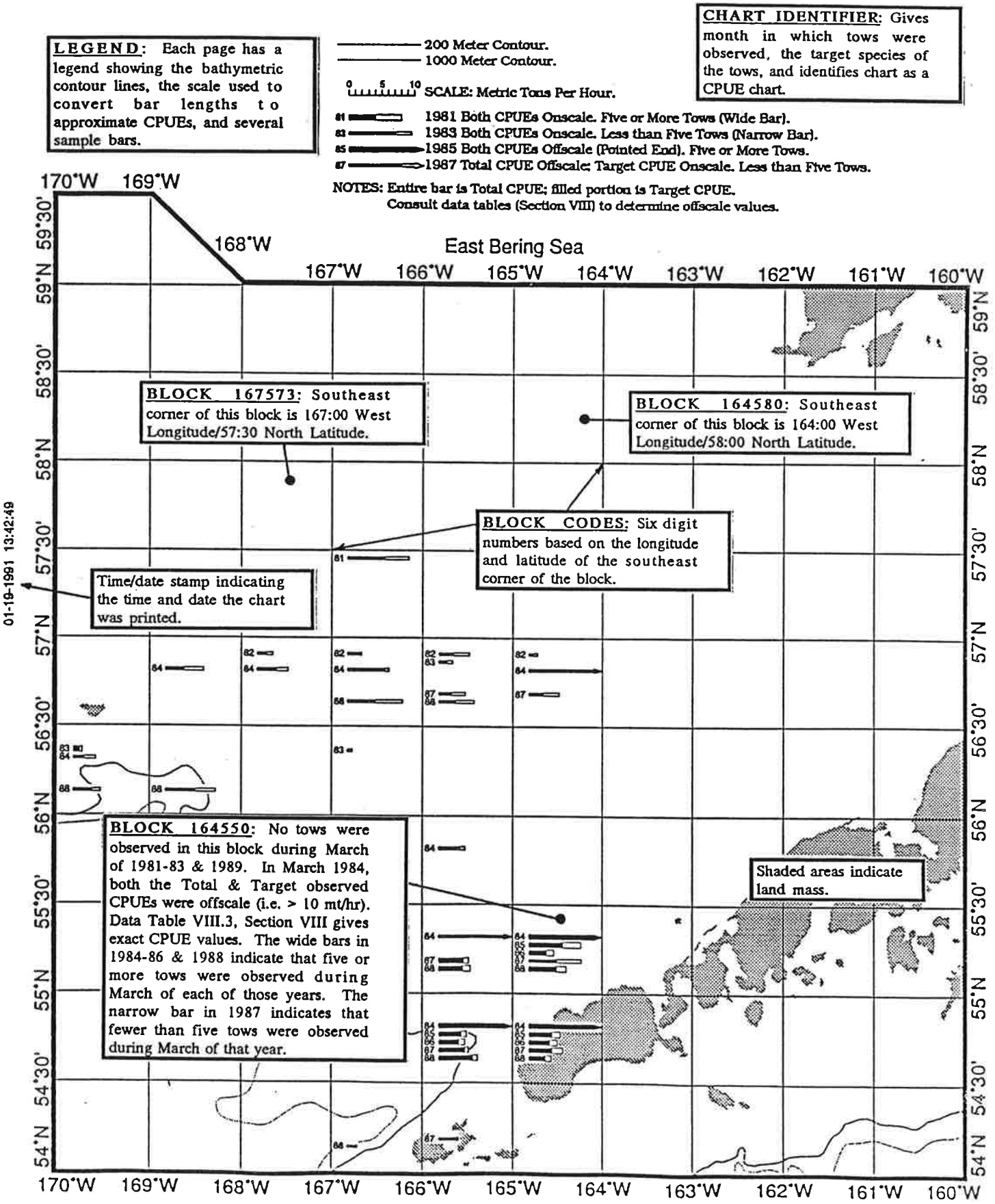


Figure I.1. Illustration of how to interpret a Catch Per Unit Effort chart.

April
"Target Species"
Tanner Crab Bycatch Rate

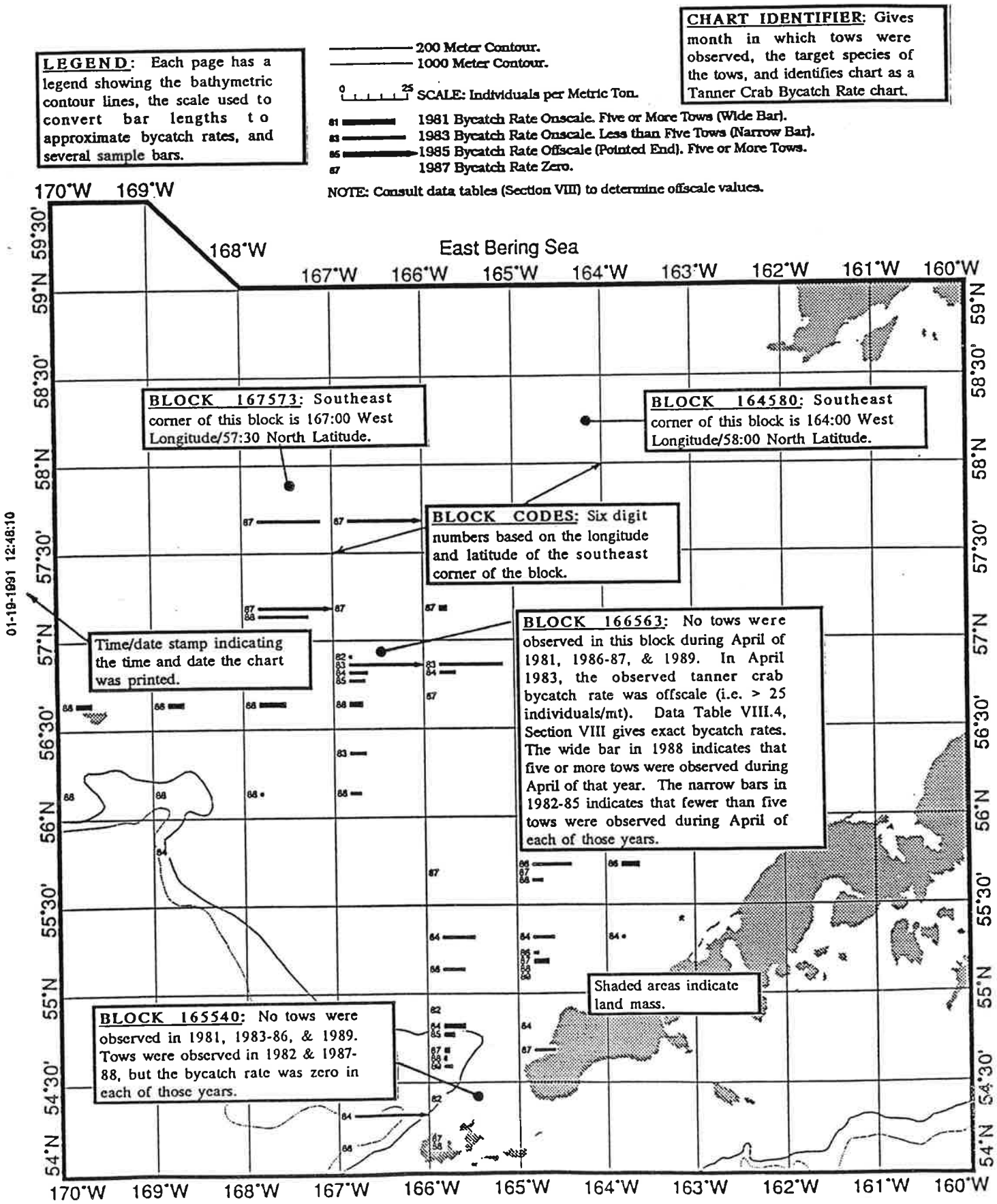


Figure I.2. Illustration of how to interpret a Bycatch Rate chart.

SECTION II

SUMMARY TABLES

Code definitions for Tables II.9-II.18.

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.

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

(%): The percentage of the total observed catch that was Pacific cod (i.e., Pacific Cod 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.

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

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	3	13	29	399	75	0	696	9,422	11,148	21,785
Feb	17	7	999	3,784	1,609	2,606	7,568	20,802	22	37,414
Mar	41	617	732	6,159	3,971	5,127	4,407	10,953	0	32,007
Apr	12	897	765	1,692	606	714	1,104	4,414	179	10,385
May	53	507	513	550	59	749	434	982	2	3,847
Jun	433	195	1,337	1,721	97	958	2,794	2,338	1,598	11,471
Jul	603	2,187	2,180	1,401	649	244	3,027	678	1,269	12,238
Aug	1	1,759	883	438	210	404	3,388	0	62	7,145
Sep	27	30	89	595	118	630	322	22	403	2,236
Oct	1	206	38	356	317	222	2,747	1,717	307	5,912
Nov	150	300	626	789	387	625	1,961	458	462	5,759
Dec	28	109	1,066	166	51	10	0	484	493	2,406
ALL	1,371	6,826	9,256	18,050	8,148	12,291	28,448	52,271	15,944	152,606

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

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	<5	<5	5	62	<5	0	51	538	531	1,193
Feb	5	<5	128	316	131	150	375	841	<5	1,949
Mar	7	73	124	451	324	321	235	518	0	2,053
Apr	<5	102	251	107	37	22	51	197	17	787
May	7	94	122	49	6	60	25	34	<5	398
Jun	41	30	151	198	9	55	135	120	63	802
Jul	37	126	182	138	47	34	231	38	82	915
Aug	<5	147	64	46	10	20	49	0	9	346
Sep	<5	15	<5	54	15	50	37	<5	32	210
Oct	<5	54	13	60	51	24	434	65	39	741
Nov	23	70	171	146	60	73	312	38	48	941
Dec	8	24	266	33	<5	<5	0	45	41	424
ALL	136	740	1,480	1,660	696	812	1,935	2,436	864	10,759

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

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.8	1.1	1.3	5.0	5.9	N/A	4.4	5.2	5.9	5.5
Feb	0.9	1.2	1.4	8.6	3.9	4.7	6.0	7.4	8.3	6.3
Mar	2.9	2.7	1.2	21.5	4.5	4.1	4.8	5.9	N/A	5.4
Apr	1.5	0.9	0.7	17.4	4.8	11.1	5.4	6.0	3.6	3.9
May	1.5	0.6	0.8	18.5	2.8	3.9	4.8	6.8	2.3	2.9
Jun	2.2	0.4	0.6	2.2	2.9	3.7	6.1	6.5	10.2	3.9
Jul	1.4	0.5	1.7	4.4	3.3	2.2	3.0	3.6	4.8	3.3
Aug	0.2	0.8	2.4	5.3	5.6	4.6	15.0	N/A	2.8	8.0
Sep	N/A	0.4	8.1	4.9	2.0	2.6	1.8	2.0	4.9	2.8
Oct	0.4	0.7	0.6	1.2	1.2	1.8	1.1	5.1	2.4	1.5
Nov	1.8	0.8	0.9	1.2	1.2	1.8	1.2	2.5	3.0	1.3
Dec	1.9	0.9	0.8	1.2	3.1	0.8	N/A	3.1	3.3	1.3
ALL	1.7	0.7	0.9	5.0	3.4	3.8	3.3	6.1	5.5	3.9

Table II.4. Pacific Cod Catch Per Unit Effort (mt/hr) observed in the BSAI Pacific Cod trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.7	0.7	0.7	3.7	5.9	N/A	3.6	4.2	5.9	5.0
Feb	0.6	0.6	0.9	6.7	3.3	3.9	5.3	6.5	3.8	5.4
Mar	1.7	1.5	0.8	17.3	3.6	3.1	4.1	5.7	N/A	4.6
Apr	0.9	0.4	0.5	10.9	3.2	6.6	3.7	4.5	2.6	2.7
May	0.9	0.4	0.7	9.9	1.6	2.2	3.3	4.4	1.9	1.8
Jun	1.5	0.3	0.4	1.4	1.6	2.0	4.2	4.3	7.1	2.6
Jul	0.7	0.4	1.0	2.7	2.1	1.5	2.0	2.0	3.2	2.1
Aug	0.1	0.6	1.2	3.0	4.2	3.7	11.1	N/A	1.7	5.8
Sep	N/A	0.3	4.3	2.7	1.2	1.9	1.5	1.3	3.7	1.9
Oct	0.2	0.5	0.4	0.9	0.7	1.3	0.7	3.9	1.4	1.0
Nov	1.1	0.5	0.6	0.8	0.8	1.3	0.9	2.0	2.1	0.9
Dec	1.2	0.5	0.6	0.8	2.8	0.4	N/A	2.0	1.9	0.9
ALL	1.1	0.5	0.6	3.6	2.6	2.8	2.6	5.2	5.0	3.2

Table II.5. Halibut bycatch rate (% of total catch by weight) observed in the BSAI Pacific Cod trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.00%	7.77%	0.57%	2.25%	0.00%	N/A	0.76%	1.59%	0.82%	1.18%
Feb	1.39%	2.39%	0.92%	0.90%	0.54%	0.98%	0.50%	1.03%	0.74%	0.89%
Mar	3.03%	1.40%	0.57%	0.54%	0.78%	0.75%	0.58%	1.02%	N/A	0.79%
Apr	1.99%	1.46%	1.00%	0.60%	0.37%	1.85%	0.85%	1.06%	0.78%	1.00%
May	0.41%	2.38%	0.57%	0.89%	0.96%	1.15%	0.30%	1.11%	0.10%	1.08%
Jun	0.30%	0.23%	1.47%	1.02%	0.66%	0.27%	0.67%	0.73%	1.41%	0.88%
Jul	0.04%	0.62%	0.89%	0.95%	0.52%	2.29%	1.11%	0.58%	1.85%	0.95%
Aug	0.00%	2.02%	0.30%	0.65%	0.49%	0.46%	0.74%	N/A	7.27%	1.03%
Sep	0.00%	1.29%	0.02%	0.60%	0.94%	0.25%	0.77%	0.60%	1.30%	0.65%
Oct	0.00%	0.68%	1.75%	0.42%	1.42%	0.56%	1.24%	1.97%	1.86%	1.40%
Nov	0.98%	0.85%	3.20%	0.74%	1.42%	0.92%	1.02%	1.56%	2.61%	1.40%
Dec	0.18%	1.59%	1.87%	0.70%	0.18%	5.71%	N/A	4.10%	6.91%	3.22%
ALL	0.36%	1.33%	1.15%	0.76%	0.72%	0.85%	0.75%	1.18%	1.26%	1.00%

Table II.6. Herring bycatch rate (% of total catch by weight) observed in the BSAI Pacific Cod 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	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	0.00%
Apr	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%
May	0.00%	0.04%	0.00%	0.00%	0.03%	0.09%	0.03%	0.00%	0.00%	0.03%
Jun	0.17%	0.00%	0.01%	0.00%	0.58%	0.04%	1.06%	0.52%	2.66%	0.75%
Jul	0.03%	0.00%	0.01%	0.00%	0.17%	0.17%	0.18%	0.33%	2.15%	0.30%
Aug	0.00%	0.01%	0.01%	0.04%	0.71%	0.04%	0.00%	N/A	0.15%	0.03%
Sep	0.00%	0.00%	1.69%	0.03%	0.00%	0.03%	0.00%	0.09%	0.06%	0.09%
Oct	0.00%	0.00%	0.00%	0.21%	0.28%	0.00%	0.03%	0.00%	0.02%	0.04%
Nov	0.00%	0.01%	0.00%	0.00%	0.16%	0.00%	0.00%	0.00%	0.00%	0.01%
Dec	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	0.00%	0.00%	0.00%
ALL	0.07%	0.01%	0.02%	0.01%	0.06%	0.01%	0.13%	0.03%	0.44%	0.09%

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

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.0	0.2	0.1	0.1	0.0	N/A	0.0	0.0	0.0	0.0
Feb	2.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Mar	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	N/A	0.0
Apr	0.3	0.0	0.4	0.0	0.1	0.3	0.1	0.0	0.0	0.1
May	6.6	0.2	4.5	0.1	0.3	0.9	0.0	0.2	0.0	1.0
Jun	0.6	0.4	1.4	1.4	5.2	0.0	0.0	0.1	0.3	0.5
Jul	0.1	1.1	0.1	2.6	3.1	0.4	0.2	0.0	0.8	0.8
Aug	0.0	0.2	0.0	6.9	0.1	0.0	0.4	N/A	0.0	0.7
Sep	13.3	0.1	0.0	4.3	0.2	0.0	0.1	0.0	0.0	1.3
Oct	0.0	0.5	0.0	1.4	1.0	2.2	0.7	0.0	0.0	0.6
Nov	0.3	0.1	0.1	0.8	1.7	0.1	0.1	0.0	0.0	0.3
Dec	0.2	0.0	0.2	2.7	0.2	0.0	N/A	0.0	0.0	0.3
ALL	0.8	0.5	0.6	0.7	0.5	0.1	0.1	0.0	0.1	0.2

Table II.8. Tanner crab bycatch rate (number of animals per metric ton of total catch) observed in the BSAI Pacific Cod trawl fishery by month and year.

Month	81	82	83	84	85	86	87	88	89	ALL
Jan	0.0	0.5	0.3	2.6	0.0	N/A	6.3	2.4	1.7	2.2
Feb	96.2	8.8	11.2	7.6	3.6	6.8	3.4	1.1	9.9	3.1
Mar	31.2	0.6	12.3	7.2	4.3	9.7	3.3	1.3	N/A	4.7
Apr	0.8	0.0	3.3	6.9	5.0	6.7	12.6	1.6	0.5	4.1
May	6.1	3.2	12.5	0.0	1.9	9.3	30.1	9.4	0.0	9.8
Jun	1.3	1.2	2.2	7.8	5.9	99.4	0.3	2.3	0.7	10.5
Jul	0.0	0.1	0.0	3.7	1.5	0.3	37.2	30.5	1.2	11.5
Aug	0.0	0.1	0.0	1.2	0.2	0.3	0.8	N/A	15.2	0.7
Sep	3.3	10.0	0.0	1.7	1.3	0.3	1.1	0.0	15.2	3.7
Oct	0.0	1.6	8.9	8.0	8.2	1.0	8.2	1.5	6.0	5.6
Nov	1.0	8.4	4.4	17.0	11.2	2.9	2.3	0.7	19.3	6.7
Dec	0.4	19.2	6.2	9.5	9.1	65.6	N/A	11.4	25.0	12.1
ALL	3.0	1.2	4.5	6.9	4.3	14.4	7.5	2.1	3.3	5.0

Table II.9. Pacific cod percentage of total catch observed in the BSAI Pacific cod trawl fishery by month and year.

Month	1981	1982	1983	1984	1985	1986	1987	1988	1989	ALL
Jan	83%	61%	58%	75%	100%	N/A	81%	80%	87%	84%
Feb	64%	49%	74%	78%	85%	83%	87%	88%	46%	86%
Mar	59%	86%	70%	80%	80%	76%	87%	86%	N/A	82%
Apr	63%	69%	80%	62%	67%	59%	69%	73%	72%	70%
May	52%	58%	74%	53%	58%	57%	70%	65%	84%	62%
Jun	56%	50%	58%	64%	55%	54%	70%	67%	69%	65%
Jul	47%	61%	56%	61%	64%	70%	67%	57%	67%	62%
Aug	78%	56%	63%	57%	74%	75%	74%	N/A	61%	67%
Sep	78%	61%	53%	56%	60%	71%	78%	65%	76%	67%
Oct	46%	64%	60%	71%	62%	70%	68%	75%	58%	70%
Nov	62%	67%	68%	68%	66%	70%	73%	80%	70%	71%
Dec	64%	61%	75%	66%	91%	54%	N/A	63%	57%	68%
ALL	54%	63%	66%	72%	77%	73%	78%	83%	81%	77%

Table II.10. Month/Block/Year records with the highest total observed catch in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
2	165543	88	15,468.7	13,989.4	90%	7.4	24.3	1.0%	0.0%	0.0	1.0	636
1	165543	89	11,148.2	9,711.2	87%	5.9	21.0	0.8%	0.0%	0.0	1.7	531
3	165543	88	9,274.2	8,076.0	87%	6.0	21.5	0.9%	0.0%	0.0	1.2	431
1	165543	88	7,681.8	6,246.5	81%	5.2	17.5	1.6%	0.0%	0.0	2.2	438
2	165543	87	6,736.6	5,927.3	88%	6.1	19.9	0.5%	0.0%	0.0	3.0	338
3	165543	84	4,205.2	3,387.9	81%	25.2	13.5	0.6%	0.0%	0.0	8.6	312
3	165543	86	4,085.6	3,176.1	78%	4.0	15.8	0.8%	0.0%	0.0	10.2	259
3	165543	87	3,622.0	3,195.4	88%	4.6	18.1	0.5%	0.0%	0.0	3.3	200
3	165543	85	3,225.9	2,641.4	82%	4.3	12.1	0.8%	0.0%	0.0	4.1	267
4	165543	88	2,573.1	1,897.5	74%	5.3	22.4	0.7%	0.0%	0.0	1.3	115
2	165543	86	2,530.6	2,119.8	84%	4.7	17.3	1.0%	0.0%	0.0	6.8	146
2	164543	88	2,279.6	1,963.3	86%	8.1	26.2	1.2%	0.0%	0.0	1.5	87
2	165543	84	2,186.6	1,668.0	76%	10.3	12.4	0.8%	0.0%	0.0	7.3	176
8	172563	87	1,970.0	1,748.4	89%	38.4	N/A	0.3%	0.0%	0.0	0.0	11
2	164550	88	1,744.1	1,353.5	78%	7.7	29.6	1.0%	0.0%	0.0	2.1	59
2	165543	85	1,609.2	1,361.6	85%	3.9	12.3	0.5%	0.0%	0.0	3.6	131
2	165550	88	1,134.7	918.6	81%	5.9	22.7	1.9%	0.0%	0.0	1.3	50
7	172520	82	1,072.1	649.9	61%	N/A	21.0	0.4%	0.0%	0.0	0.0	51
8	178593	87	1,070.4	514.2	48%	27.7	N/A	1.6%	0.0%	1.2	2.6	7
10	165540	88	918.1	725.7	79%	5.1	27.8	2.4%	0.0%	0.0	0.3	33
6	172520	87	913.9	666.5	73%	6.5	19.4	0.7%	0.0%	0.0	0.0	47
4	165543	84	850.3	533.7	63%	29.5	14.9	0.5%	0.0%	0.0	8.2	57
1	164543	88	824.8	623.5	76%	5.5	18.3	1.4%	0.0%	0.0	4.1	45
3	164543	84	821.3	648.7	79%	N/A	16.1	0.3%	0.0%	0.0	3.9	51
4	165543	82	814.1	551.0	68%	N/A	9.5	1.4%	0.0%	0.0	0.0	86
7	173520	82	793.9	503.7	63%	N/A	22.7	0.3%	0.0%	0.0	0.0	35
3	164543	86	785.8	559.0	71%	4.4	16.7	0.4%	0.0%	0.0	8.7	47
6	161560	89	779.1	528.2	68%	10.0	23.6	0.7%	0.4%	0.6	0.8	33
6	172520	84	766.8	425.0	55%	21.6	18.7	0.6%	0.0%	0.0	0.0	41
7	172520	87	745.7	503.9	68%	3.2	13.8	0.8%	0.0%	0.0	0.0	54
6	172520	88	731.4	515.0	70%	11.4	29.3	0.3%	0.0%	0.0	0.0	25
2	165550	87	711.9	594.0	83%	5.8	23.7	0.7%	0.0%	0.0	6.2	30
3	164550	84	681.3	539.8	79%	N/A	13.4	0.2%	0.0%	0.0	1.7	51
8	160563	82	664.8	380.1	57%	N/A	11.9	3.5%	0.0%	0.4	0.0	56
7	173520	83	663.0	399.5	60%	N/A	17.9	0.4%	0.0%	0.0	0.0	37
6	160563	83	642.6	360.3	56%	N/A	10.9	1.4%	0.0%	0.4	0.0	59
6	173520	87	625.1	463.6	74%	5.0	22.3	0.4%	0.0%	0.0	0.0	28
7	160563	83	620.4	353.4	57%	N/A	8.5	1.5%	0.0%	0.4	0.0	73
10	165543	88	612.8	428.1	70%	4.8	23.6	1.7%	0.0%	0.0	3.5	26
2	164543	84	610.3	470.5	77%	13.3	13.3	0.5%	0.0%	0.0	12.3	46
3	164543	85	600.6	438.6	73%	4.9	14.0	0.5%	0.0%	0.0	4.6	43
7	161560	89	578.7	380.9	66%	5.0	16.5	0.7%	4.2%	1.6	0.3	35
3	165550	88	554.2	421.2	76%	4.9	22.2	2.3%	0.0%	0.0	2.5	25

Table II.11. Month/Block/Year records with the highest number of observed tows in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
2	165543	88	15,468.7	13,989.4	90%	7.4	24.3	1.0%	0.0%	0.0	1.0	636
1	165543	89	11,148.2	9,711.2	87%	5.9	21.0	0.8%	0.0%	0.0	1.7	531
1	165543	88	7,681.8	6,246.5	81%	5.2	17.5	1.6%	0.0%	0.0	2.2	438
3	165543	88	9,274.2	8,076.0	87%	6.0	21.5	0.9%	0.0%	0.0	1.2	431
2	165543	87	6,736.6	5,927.3	88%	6.1	19.9	0.5%	0.0%	0.0	3.0	338
3	165543	84	4,205.2	3,387.9	81%	25.2	13.5	0.6%	0.0%	0.0	8.6	312
3	165543	85	3,225.9	2,641.4	82%	4.3	12.1	0.8%	0.0%	0.0	4.1	267
3	165543	86	4,085.6	3,176.1	78%	4.0	15.8	0.8%	0.0%	0.0	10.2	259
3	165543	87	3,622.0	3,195.4	88%	4.6	18.1	0.5%	0.0%	0.0	3.3	200
2	165543	84	2,186.6	1,668.0	76%	10.3	12.4	0.8%	0.0%	0.0	7.3	176
2	165543	86	2,530.6	2,119.8	84%	4.7	17.3	1.0%	0.0%	0.0	6.8	146
2	165543	85	1,609.2	1,361.6	85%	3.9	12.3	0.5%	0.0%	0.0	3.6	131
4	165543	88	2,573.1	1,897.5	74%	5.3	22.4	0.7%	0.0%	0.0	1.3	115
11	165543	83	378.1	259.1	69%	1.1	3.8	4.5%	0.0%	0.0	4.3	100
10	178600	87	431.0	283.5	66%	0.7	4.7	2.0%	0.0%	0.8	25.9	92
2	164543	88	2,279.6	1,963.3	86%	8.1	26.2	1.2%	0.0%	0.0	1.5	87
4	165543	82	814.1	551.0	68%	N/A	9.5	1.4%	0.0%	0.0	0.0	86
4	178590	83	157.7	138.1	88%	0.5	2.2	0.5%	0.0%	1.4	0.5	73
7	160563	83	620.4	353.4	57%	N/A	8.5	1.5%	0.0%	0.4	0.0	73
10	172563	87	481.9	392.0	81%	1.3	7.4	0.5%	0.0%	0.0	0.7	65
4	177583	83	241.3	199.3	83%	0.8	3.8	0.4%	0.0%	0.1	1.2	63
10	178593	87	344.2	242.8	71%	0.9	5.6	1.7%	0.2%	4.0	3.4	62
11	172563	87	451.6	370.5	82%	1.5	7.5	0.6%	0.0%	0.0	1.9	60
2	164550	88	1,744.1	1,353.5	78%	7.7	29.6	1.0%	0.0%	0.0	2.1	59
6	160563	83	642.6	360.3	56%	N/A	10.9	1.4%	0.0%	0.4	0.0	59
4	165543	84	850.3	533.7	63%	29.5	14.9	0.5%	0.0%	0.0	8.2	57
8	160563	82	664.8	380.1	57%	N/A	11.9	3.5%	0.0%	0.4	0.0	56
12	173570	83	218.4	156.0	71%	0.8	4.0	1.8%	0.0%	0.0	1.4	55
7	172520	87	745.7	503.9	68%	3.2	13.8	0.8%	0.0%	0.0	0.0	54
2	165543	83	498.7	397.6	80%	N/A	9.4	1.1%	0.0%	0.0	11.9	53
5	165543	82	266.1	148.8	56%	N/A	5.1	2.8%	0.0%	0.0	1.9	52
3	164543	84	821.3	648.7	79%	N/A	16.1	0.3%	0.0%	0.0	3.9	51
3	164550	84	681.3	539.8	79%	N/A	13.4	0.2%	0.0%	0.0	1.7	51
7	172520	82	1,072.1	649.9	61%	N/A	21.0	0.4%	0.0%	0.0	0.0	51
2	165550	88	1,134.7	918.6	81%	5.9	22.7	1.9%	0.0%	0.0	1.3	50
11	175583	87	264.0	168.7	64%	1.0	5.3	0.6%	0.0%	0.0	1.4	50
5	177583	83	233.9	199.4	85%	0.9	4.8	0.6%	0.0%	0.1	2.0	49
2	165540	84	527.4	456.0	86%	6.3	11.0	1.3%	0.0%	0.0	1.0	48
3	164543	86	785.8	559.0	71%	4.4	16.7	0.4%	0.0%	0.0	8.7	47
3	165543	82	463.3	403.4	87%	N/A	9.9	1.5%	0.0%	0.0	0.5	47
6	172520	87	913.9	666.5	73%	6.5	19.4	0.7%	0.0%	0.0	0.0	47
2	164543	84	610.3	470.5	77%	13.3	13.3	0.5%	0.0%	0.0	12.3	46
1	164543	88	824.8	623.5	76%	5.5	18.3	1.4%	0.0%	0.0	4.1	45

Table II.12. Month/Block/Year records with the highest total Catch Per Unit Effort (mt/hr) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
8	172563	87	1,970.0	1,748.4	89%	38.4	N/A	0.3%	0.0%	0.0	0.0	11
4	163553	84	86.0	56.6	66%	33.7	14.3	0.5%	0.0%	0.0	18.8	6
3	170563	87	155.0	154.8	100%	32.1	N/A	0.0%	0.0%	0.0	0.0	<5
4	165543	84	850.3	533.7	63%	29.5	14.9	0.5%	0.0%	0.0	8.2	57
4	179523	84	273.2	159.4	58%	29.5	24.8	0.1%	0.0%	0.0	0.0	11
4	172520	84	46.3	23.2	50%	29.2	N/A	0.0%	0.0%	0.0	0.0	<5
8	178593	87	1,070.4	514.2	48%	27.7	N/A	1.6%	0.0%	1.2	2.6	7
3	165543	84	4,205.2	3,387.9	81%	25.2	13.5	0.6%	0.0%	0.0	8.6	312
7	160573	84	56.0	26.7	48%	24.5	N/A	0.0%	0.0%	6.8	0.6	<5
4	169560	88	68.5	36.1	53%	24.2	N/A	0.9%	0.0%	0.0	0.0	<5
7	160570	84	492.0	253.7	52%	23.8	14.9	0.2%	0.0%	2.9	1.9	33
5	179523	84	194.8	108.7	56%	23.3	16.2	1.0%	0.0%	0.0	0.0	12
4	172570	88	99.8	99.7	100%	22.2	N/A	0.0%	0.0%	0.0	0.0	<5
5	171570	88	186.5	186.1	100%	21.9	N/A	0.0%	0.0%	0.0	0.0	<5
4	165550	84	67.0	43.6	65%	21.7	N/A	1.8%	0.0%	0.0	11.7	<5
6	172520	84	766.8	425.0	55%	21.6	18.7	0.6%	0.0%	0.0	0.0	41
5	172520	84	140.8	78.0	55%	21.2	8.3	0.4%	0.0%	0.0	0.0	17
4	171570	87	186.9	186.1	100%	21.2	N/A	0.0%	0.0%	0.0	0.0	<5
12	183513	83	10.2	9.8	96%	20.4	N/A	0.0%	0.0%	0.0	0.0	<5
5	179520	84	130.5	61.5	47%	20.3	10.9	1.5%	0.0%	0.0	0.0	12
8	176603	85	62.3	57.3	92%	19.7	N/A	0.0%	2.4%	0.0	0.7	<5
7	172520	84	55.2	29.4	53%	19.5	N/A	0.1%	0.0%	0.0	0.0	<5
3	164563	84	72.3	42.8	59%	19.3	N/A	0.6%	0.0%	0.0	1.6	<5
8	168560	86	151.3	138.5	92%	19.1	N/A	0.1%	0.0%	0.0	0.2	<5
4	164550	86	113.8	79.1	69%	19.0	N/A	1.3%	0.0%	1.1	1.9	<5
8	163560	85	45.5	45.3	100%	18.8	N/A	0.0%	0.1%	0.0	0.0	<5
5	174583	87	107.6	107.3	100%	18.4	N/A	0.0%	0.0%	0.0	0.0	<5
9	173583	89	67.4	54.6	81%	17.7	N/A	0.0%	0.2%	0.0	1.1	<5
7	171563	85	100.9	99.6	99%	17.5	N/A	0.0%	0.0%	0.0	0.1	<5
3	165550	84	112.6	100.9	90%	17.1	11.3	0.6%	0.0%	0.0	22.0	10
7	180523	88	29.8	14.2	48%	17.0	N/A	0.1%	0.0%	0.0	0.0	<5
5	175583	87	57.8	57.7	100%	16.9	N/A	0.0%	0.0%	0.0	0.0	<5
4	164543	84	92.2	58.3	63%	16.6	15.4	0.3%	0.0%	0.0	0.4	6
2	165550	84	72.1	62.7	87%	16.3	14.4	2.2%	0.0%	0.0	29.2	5
10	172520	87	167.5	93.3	56%	16.2	33.5	0.0%	0.0%	0.0	0.0	5
4	164550	84	116.7	87.2	75%	16.1	16.7	0.8%	0.0%	0.1	8.2	7
2	164550	84	102.1	49.3	48%	15.0	14.6	0.8%	0.0%	0.0	13.4	7
9	171523	89	14.7	14.1	96%	14.7	N/A	1.8%	0.0%	0.5	0.0	<5
4	166540	88	486.4	430.6	89%	14.1	32.4	2.3%	0.0%	0.0	0.0	15
4	163553	86	536.2	300.1	56%	14.0	35.7	2.0%	0.0%	0.1	7.2	15
6	179523	88	142.2	78.0	55%	14.0	17.8	0.6%	0.0%	0.0	0.0	8
8	160570	84	298.7	159.9	54%	13.5	13.6	0.2%	0.0%	9.4	0.6	22
2	164543	84	610.3	470.5	77%	13.3	13.3	0.5%	0.0%	0.0	12.3	46

Table II.13. Month/Block/Year records with the highest total Catch Per Unit Effort (mt/tow) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
6	163550	89	484.3	337.6	70%	12.9	40.4	2.0%	6.0%	0.0	0.2	12
5	164550	88	303.4	158.8	52%	6.9	37.9	1.3%	0.0%	0.2	22.3	8
4	163553	86	536.2	300.1	56%	14.0	35.7	2.0%	0.0%	0.1	7.2	15
10	172520	87	167.5	93.3	56%	16.2	33.5	0.0%	0.0%	0.0	0.0	5
4	166540	88	486.4	430.6	89%	14.1	32.4	2.3%	0.0%	0.0	0.0	15
2	164550	88	1,744.1	1,353.5	78%	7.7	29.6	1.0%	0.0%	0.0	2.1	59
4	165540	88	293.8	245.8	84%	7.6	29.4	1.5%	0.0%	0.0	0.2	10
6	172520	88	731.4	515.0	70%	11.4	29.3	0.3%	0.0%	0.0	0.0	25
6	169583	88	145.4	80.9	56%	5.4	29.1	1.5%	0.0%	0.0	5.5	5
6	179523	87	394.7	231.3	59%	9.7	28.2	1.1%	0.0%	0.0	0.0	14
4	164550	87	252.1	156.6	62%	7.7	28.0	0.6%	0.0%	0.2	6.1	9
10	165540	88	918.1	725.7	79%	5.1	27.8	2.4%	0.0%	0.0	0.3	33
6	173520	82	138.0	63.2	46%	N/A	27.6	0.0%	0.0%	0.0	0.0	5
5	163553	88	300.7	157.2	52%	5.6	27.3	1.4%	0.0%	0.3	6.4	11
2	164543	88	2,279.6	1,963.3	86%	8.1	26.2	1.2%	0.0%	0.0	1.5	87
4	165543	87	151.5	119.8	79%	5.4	25.3	0.4%	0.0%	0.0	1.9	6
8	172520	87	151.4	104.6	69%	6.0	25.2	0.4%	0.0%	0.0	0.0	6
4	179523	84	273.2	159.4	58%	29.5	24.8	0.1%	0.0%	0.0	0.0	11
2	165543	88	15,468.7	13,989.4	90%	7.4	24.3	1.0%	0.0%	0.0	1.0	636
2	165550	87	711.9	594.0	83%	5.8	23.7	0.7%	0.0%	0.0	6.2	30
6	161560	89	779.1	528.2	68%	10.0	23.6	0.7%	0.4%	0.6	0.8	33
10	165543	88	612.8	428.1	70%	4.8	23.6	1.7%	0.0%	0.0	3.5	26
6	169590	88	164.8	89.1	54%	3.9	23.5	1.4%	0.1%	0.0	10.7	7
2	165550	88	1,134.7	918.6	81%	5.9	22.7	1.9%	0.0%	0.0	1.3	50
7	173520	82	793.9	503.7	63%	N/A	22.7	0.3%	0.0%	0.0	0.0	35
4	165543	88	2,573.1	1,897.5	74%	5.3	22.4	0.7%	0.0%	0.0	1.3	115
6	173520	87	625.1	463.6	74%	5.0	22.3	0.4%	0.0%	0.0	0.0	28
3	165550	88	554.2	421.2	76%	4.9	22.2	2.3%	0.0%	0.0	2.5	25
6	164550	89	325.8	232.3	71%	8.9	21.7	2.3%	3.3%	0.0	1.0	15
3	167533	88	517.3	482.7	93%	10.5	21.6	0.7%	0.0%	0.0	0.5	24
3	165543	88	9,274.2	8,076.0	87%	6.0	21.5	0.9%	0.0%	0.0	1.2	431
7	172520	82	1,072.1	649.9	61%	N/A	21.0	0.4%	0.0%	0.0	0.0	51
1	165543	89	11,148.2	9,711.2	87%	5.9	21.0	0.8%	0.0%	0.0	1.7	531
8	172520	82	391.8	193.2	49%	N/A	20.6	0.8%	0.0%	0.0	0.0	19
3	164550	88	266.4	196.9	74%	5.8	20.5	0.9%	0.0%	0.0	1.3	13
3	164543	87	160.8	110.0	68%	5.3	20.1	0.7%	0.0%	0.0	1.7	8
12	165550	89	120.4	66.4	55%	7.2	20.1	5.2%	0.0%	0.0	13.4	6
7	163550	89	100.0	66.8	67%	6.4	20.0	2.4%	0.8%	0.0	0.0	5
2	165543	87	6,736.6	5,927.3	88%	6.1	19.9	0.5%	0.0%	0.0	3.0	338
7	172600	87	138.2	78.8	57%	3.2	19.7	0.3%	0.3%	0.4	55.6	7
4	172563	88	98.6	88.4	90%	6.2	19.7	0.2%	0.0%	0.0	0.2	5
6	172520	87	913.9	666.5	73%	6.5	19.4	0.7%	0.0%	0.0	0.0	47
3	165550	87	349.1	290.3	83%	4.6	19.4	1.3%	0.0%	0.0	5.5	18

Table II.13. Month/Block/Year records with the highest total Catch Per Unit Effort (mt/tow) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
6	163550	89	484.3	337.6	70%	12.9	40.4	2.0%	6.0%	0.0	0.2	12
5	164550	88	303.4	158.8	52%	6.9	37.9	1.3%	0.0%	0.2	22.3	8
4	163553	86	536.2	300.1	56%	14.0	35.7	2.0%	0.0%	0.1	7.2	15
10	172520	87	167.5	93.3	56%	16.2	33.5	0.0%	0.0%	0.0	0.0	5
4	166540	88	486.4	430.6	89%	14.1	32.4	2.3%	0.0%	0.0	0.0	15
2	164550	88	1,744.1	1,353.5	78%	7.7	29.6	1.0%	0.0%	0.0	2.1	59
4	165540	88	293.8	245.8	84%	7.6	29.4	1.5%	0.0%	0.0	0.2	10
6	172520	88	731.4	515.0	70%	11.4	29.3	0.3%	0.0%	0.0	0.0	25
6	169583	88	145.4	80.9	56%	5.4	29.1	1.5%	0.0%	0.0	5.5	5
6	179523	87	394.7	231.3	59%	9.7	28.2	1.1%	0.0%	0.0	0.0	14
4	164550	87	252.1	156.6	62%	7.7	28.0	0.6%	0.0%	0.2	6.1	9
10	165540	88	918.1	725.7	79%	5.1	27.8	2.4%	0.0%	0.0	0.3	33
6	173520	82	138.0	63.2	46%	N/A	27.6	0.0%	0.0%	0.0	0.0	5
5	163553	88	300.7	157.2	52%	5.6	27.3	1.4%	0.0%	0.3	6.4	11
2	164543	88	2,279.6	1,963.3	86%	8.1	26.2	1.2%	0.0%	0.0	1.5	87
4	165543	87	151.5	119.8	79%	5.4	25.3	0.4%	0.0%	0.0	1.9	6
8	172520	87	151.4	104.6	69%	6.0	25.2	0.4%	0.0%	0.0	0.0	6
4	179523	84	273.2	159.4	58%	29.5	24.8	0.1%	0.0%	0.0	0.0	11
2	165543	88	15,468.7	13,989.4	90%	7.4	24.3	1.0%	0.0%	0.0	1.0	636
2	165550	87	711.9	594.0	83%	5.8	23.7	0.7%	0.0%	0.0	6.2	30
6	161560	89	779.1	528.2	68%	10.0	23.6	0.7%	0.4%	0.6	0.8	33
10	165543	88	612.8	428.1	70%	4.8	23.6	1.7%	0.0%	0.0	3.5	26
6	169590	88	164.8	89.1	54%	3.9	23.5	1.4%	0.1%	0.0	10.7	7
2	165550	88	1,134.7	918.6	81%	5.9	22.7	1.9%	0.0%	0.0	1.3	50
7	173520	82	793.9	503.7	63%	N/A	22.7	0.3%	0.0%	0.0	0.0	35
4	165543	88	2,573.1	1,897.5	74%	5.3	22.4	0.7%	0.0%	0.0	1.3	115
6	173520	87	625.1	463.6	74%	5.0	22.3	0.4%	0.0%	0.0	0.0	28
3	165550	88	554.2	421.2	76%	4.9	22.2	2.3%	0.0%	0.0	2.5	25
6	164550	89	325.8	232.3	71%	8.9	21.7	2.3%	3.3%	0.0	1.0	15
3	167533	88	517.3	482.7	93%	10.5	21.6	0.7%	0.0%	0.0	0.5	24
3	165543	88	9,274.2	8,076.0	87%	6.0	21.5	0.9%	0.0%	0.0	1.2	431
7	172520	82	1,072.1	649.9	61%	N/A	21.0	0.4%	0.0%	0.0	0.0	51
1	165543	89	11,148.2	9,711.2	87%	5.9	21.0	0.8%	0.0%	0.0	1.7	531
8	172520	82	391.8	193.2	49%	N/A	20.6	0.8%	0.0%	0.0	0.0	19
3	164550	88	266.4	196.9	74%	5.8	20.5	0.9%	0.0%	0.0	1.3	13
3	164543	87	160.8	110.0	68%	5.3	20.1	0.7%	0.0%	0.0	1.7	8
12	165550	89	120.4	66.4	55%	7.2	20.1	5.2%	0.0%	0.0	13.4	6
7	163550	89	100.0	66.8	67%	6.4	20.0	2.4%	0.8%	0.0	0.0	5
2	165543	87	6,736.6	5,927.3	88%	6.1	19.9	0.5%	0.0%	0.0	3.0	338
7	172600	87	138.2	78.8	57%	3.2	19.7	0.3%	0.3%	0.4	55.6	7
4	172563	88	98.6	88.4	90%	6.2	19.7	0.2%	0.0%	0.0	0.2	5
6	172520	87	913.9	666.5	73%	6.5	19.4	0.7%	0.0%	0.0	0.0	47
3	165550	87	349.1	290.3	83%	4.6	19.4	1.3%	0.0%	0.0	5.5	18

Table II.14. Month/Block/Year records with the highest Pacific Cod percentage of total catch in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
8	172523	87	11.6	11.6	100%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
4	172570	88	99.8	99.7	100%	22.2	N/A	0.0%	0.0%	0.0	0.0	<5
1	178600	85	67.1	67.0	100%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
3	170563	87	155.0	154.8	100%	32.1	N/A	0.0%	0.0%	0.0	0.0	<5
12	171523	85	42.0	41.9	100%	6.6	N/A	0.0%	0.0%	0.0	0.0	<5
5	171570	88	186.5	186.1	100%	21.9	N/A	0.0%	0.0%	0.0	0.0	<5
5	175583	87	57.8	57.7	100%	16.9	N/A	0.0%	0.0%	0.0	0.0	<5
5	174583	87	107.6	107.3	100%	18.4	N/A	0.0%	0.0%	0.0	0.0	<5
4	171570	87	186.9	186.1	100%	21.2	N/A	0.0%	0.0%	0.0	0.0	<5
7	170563	85	39.4	39.2	100%	7.3	N/A	0.0%	0.0%	0.0	0.1	<5
11	166543	85	17.2	17.1	100%	6.9	N/A	0.0%	0.0%	0.0	0.0	<5
8	163560	85	45.5	45.3	100%	18.8	N/A	0.0%	0.1%	0.0	0.0	<5
6	170563	87	120.4	119.6	99%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
1	177590	85	7.9	7.8	99%	5.9	N/A	0.0%	0.0%	0.0	0.0	<5
6	169563	87	61.1	60.6	99%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
9	168553	86	100.8	99.9	99%	9.3	N/A	0.0%	0.0%	0.0	0.0	<5
9	167550	86	98.5	97.3	99%	8.8	N/A	0.0%	0.0%	0.0	0.0	<5
7	171563	85	100.9	99.6	99%	17.5	N/A	0.0%	0.0%	0.0	0.1	<5
2	165553	88	44.5	43.9	99%	12.7	N/A	0.2%	0.0%	0.0	0.0	<5
8	168553	82	13.0	12.8	98%	13.0	N/A	0.0%	0.0%	0.0	0.0	<5
10	177590	84	28.0	27.3	98%	4.5	N/A	0.0%	0.0%	0.1	1.1	<5
4	178580	83	2.8	2.7	97%	0.7	N/A	0.2%	0.0%	0.0	0.0	<5
12	183513	83	10.2	9.8	96%	20.4	N/A	0.0%	0.0%	0.0	0.0	<5
9	171523	89	14.7	14.1	96%	14.7	N/A	1.8%	0.0%	0.5	0.0	<5
3	165540	88	26.3	25.2	96%	N/A	N/A	1.0%	0.0%	0.0	0.2	<5
3	172523	88	2.2	2.1	95%	0.7	N/A	0.0%	0.0%	0.9	0.9	<5
9	171560	87	10.5	10.0	95%	1.7	N/A	0.3%	0.0%	0.0	0.0	<5
2	165553	84	33.2	31.5	95%	9.2	N/A	0.7%	0.0%	0.0	0.1	<5
6	182513	84	38.7	36.7	95%	8.7	6.5	0.2%	0.0%	0.4	0.0	6
2	165540	88	86.2	81.6	95%	4.9	N/A	1.4%	0.0%	0.0	0.3	<5
4	178593	85	12.5	11.8	95%	2.3	N/A	0.4%	0.0%	0.8	9.5	<5
4	175580	83	10.9	10.2	93%	2.3	N/A	0.2%	0.0%	0.0	0.0	<5
6	178593	84	3.0	2.8	93%	1.9	N/A	0.2%	0.0%	0.3	2.0	<5
3	167533	88	517.3	482.7	93%	10.5	21.6	0.7%	0.0%	0.0	0.5	24
10	173570	86	41.9	39.0	93%	1.6	8.4	0.7%	0.0%	0.0	0.0	5
6	179523	83	13.0	12.1	93%	6.5	N/A	0.0%	0.0%	0.0	0.0	<5
3	166540	88	5.9	5.5	93%	1.5	N/A	3.9%	0.0%	0.0	0.5	<5
9	171563	89	10.0	9.3	93%	5.2	N/A	0.9%	0.0%	0.0	6.3	<5
2	186520	83	25.8	23.9	93%	9.7	N/A	0.0%	0.0%	0.0	0.0	<5
9	172563	87	41.5	38.3	92%	1.4	6.9	0.7%	0.0%	0.0	0.0	6
4	178593	83	0.9	0.8	92%	0.2	N/A	2.0%	0.0%	0.0	8.9	<5
6	178590	83	1.4	1.3	92%	0.2	N/A	0.8%	0.0%	0.0	108.6	<5
6	178583	84	83.9	77.3	92%	1.6	7.6	0.8%	0.0%	0.5	65.4	11

Table II.15. Month/Block/Year records with the highest halibut bycatch rate (% of total catch by weight) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
4	168553	84	4.1	2.4	58%	N/A	N/A	39.5%	0.0%	0.0	0.0	<5
12	167553	83	4.3	2.3	53%	0.8	N/A	20.1%	0.0%	0.0	33.5	<5
11	170560	83	2.0	1.0	49%	0.9	N/A	18.2%	0.0%	0.0	0.0	<5
11	174573	87	14.1	7.5	53%	3.5	N/A	17.4%	0.0%	0.0	0.0	<5
10	166560	87	3.2	1.6	52%	0.8	N/A	14.9%	0.0%	0.0	0.3	<5
11	180520	84	6.9	4.6	67%	0.7	N/A	13.9%	0.0%	7.7	0.0	<5
4	166563	83	11.0	7.0	63%	1.7	N/A	13.6%	0.0%	0.0	32.9	<5
1	179520	82	2.8	2.2	78%	0.5	N/A	13.5%	0.0%	1.1	0.0	<5
11	165560	84	1.1	0.6	51%	0.4	N/A	13.3%	0.0%	0.0	13.6	<5
3	174573	81	3.1	1.6	53%	1.6	N/A	13.2%	0.0%	0.0	0.0	<5
4	165540	87	21.0	12.8	61%	N/A	N/A	13.2%	0.0%	0.0	0.0	<5
7	163580	85	3.4	1.8	53%	0.9	N/A	13.2%	0.0%	5.3	0.0	<5
4	171563	83	5.4	3.5	65%	0.4	1.1	12.9%	0.0%	0.0	10.9	5
11	171523	83	1.6	0.9	56%	0.3	N/A	12.8%	0.0%	8.1	0.0	<5
7	174583	84	0.2	0.1	50%	0.1	N/A	11.3%	0.0%	0.0	5.0	<5
7	172590	84	0.2	0.1	60%	0.1	N/A	11.0%	0.0%	0.0	10.0	<5
8	165540	89	2.3	1.9	83%	1.1	N/A	10.6%	1.3%	0.0	0.0	<5
11	177593	87	2.5	1.4	56%	0.5	N/A	9.9%	0.0%	0.0	5.2	<5
11	169560	85	0.4	0.2	50%	0.2	N/A	9.8%	0.0%	0.0	0.0	<5
12	168563	89	19.5	11.5	59%	1.9	N/A	9.3%	0.0%	0.0	30.1	<5
11	166543	84	3.0	1.5	50%	0.6	N/A	8.7%	0.0%	1.0	18.3	<5
8	170560	89	39.1	23.0	59%	4.3	N/A	8.3%	0.0%	0.0	0.2	<5
1	169560	82	7.3	3.6	49%	1.6	N/A	8.2%	0.0%	0.0	0.8	<5
8	165543	89	10.0	6.6	66%	1.9	N/A	8.1%	0.6%	0.0	0.0	<5
9	168563	87	5.0	3.4	67%	1.5	N/A	7.6%	0.0%	0.0	0.0	<5
2	168560	82	1.2	0.7	61%	0.3	N/A	7.5%	0.0%	0.8	0.8	<5
12	165543	89	308.9	172.5	56%	3.5	13.4	7.5%	0.0%	0.0	31.8	23
7	164553	89	76.4	49.0	64%	4.1	15.3	7.4%	0.0%	0.3	1.4	5
4	166560	88	29.0	15.4	53%	2.9	N/A	7.3%	0.0%	0.0	4.0	<5
3	170563	83	1.3	0.9	68%	0.9	N/A	7.2%	0.0%	0.0	100.8	<5
11	170523	81	1.5	0.8	53%	0.7	N/A	7.0%	0.0%	0.0	0.0	<5
4	170563	83	3.0	2.5	82%	0.4	N/A	6.8%	0.0%	0.0	0.3	<5
12	168560	89	29.1	19.5	67%	1.6	5.8	6.7%	0.0%	0.0	10.1	5
10	159570	85	1.7	0.8	46%	0.6	N/A	6.4%	0.0%	0.0	1.8	<5
8	165540	84	8.0	4.1	51%	3.5	N/A	6.3%	0.0%	0.0	0.0	<5
8	164580	84	4.3	2.4	55%	1.0	N/A	6.3%	0.0%	0.7	0.0	<5
2	167563	84	1.8	0.9	52%	0.6	N/A	6.0%	0.0%	0.0	137.8	<5
11	166550	89	16.6	13.1	79%	5.5	N/A	6.0%	0.1%	0.0	331.9	<5
8	177583	84	10.1	9.0	89%	1.0	N/A	5.9%	0.0%	0.4	4.3	<5
9	173573	82	0.9	0.5	51%	0.3	N/A	5.9%	0.0%	0.0	35.6	<5
10	165543	84	7.6	4.4	58%	0.3	N/A	5.9%	0.0%	0.0	5.7	<5
12	169560	86	7.7	4.1	54%	0.8	N/A	5.9%	0.0%	0.0	88.6	<5
6	177593	82	1.3	0.9	71%	0.2	N/A	5.9%	0.0%	13.1	0.8	<5

Table II.16. Month/Block/Year records with the highest herring bycatch rate (% of total catch by weight) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
6	160560	87	116.6	68.5	59%	5.8	16.7	0.8%	11.3%	0.2	0.0	7
6	160563	87	58.1	39.8	69%	10.2	N/A	1.1%	6.4%	0.0	0.0	<5
6	163550	89	484.3	337.6	70%	12.9	40.4	2.0%	6.0%	0.0	0.2	12
9	175583	83	30.2	14.0	46%	11.7	N/A	0.0%	5.0%	0.0	0.0	<5
7	161560	89	578.7	380.9	66%	5.0	16.5	0.7%	4.2%	1.6	0.3	35
5	165570	82	4.4	2.1	49%	2.6	N/A	2.6%	4.1%	0.0	0.0	<5
6	160563	88	95.9	63.8	67%	6.2	16.0	0.2%	3.9%	0.1	0.0	6
6	161560	87	323.0	203.3	63%	7.2	17.0	0.4%	3.5%	0.0	0.0	19
6	164550	89	325.8	232.3	71%	8.9	21.7	2.3%	3.3%	0.0	1.0	15
6	160563	85	20.3	11.2	55%	6.4	N/A	0.9%	2.8%	1.4	0.0	<5
8	176603	85	62.3	57.3	92%	19.7	N/A	0.0%	2.4%	0.0	0.7	<5
5	170573	86	6.4	3.7	58%	3.2	N/A	1.4%	2.3%	0.2	50.8	<5
3	175583	81	3.0	1.9	63%	4.5	N/A	3.7%	2.0%	0.0	402.7	<5
6	162553	87	88.5	51.5	58%	4.5	12.6	1.9%	1.5%	0.1	0.0	7
6	161560	88	483.9	356.3	74%	6.7	16.7	0.8%	1.5%	0.5	0.0	29
7	160563	87	136.4	75.6	55%	4.7	12.4	2.8%	1.5%	0.0	0.0	11
7	161560	88	129.3	95.4	74%	5.0	16.2	0.7%	1.4%	0.0	0.0	8
8	165540	89	2.3	1.9	83%	1.1	N/A	10.6%	1.3%	0.0	0.0	<5
5	168580	86	2.6	1.5	57%	2.6	N/A	1.0%	1.2%	0.0	326.2	<5
10	178593	85	35.0	19.0	54%	1.1	5.8	1.2%	1.1%	1.0	7.7	6
8	164573	83	9.5	5.1	54%	3.8	N/A	0.0%	0.9%	0.6	0.7	<5
9	165540	89	3.3	1.6	48%	3.3	N/A	4.0%	0.9%	0.0	4.2	<5
7	164540	89	11.3	8.7	77%	2.7	N/A	2.8%	0.9%	0.0	0.0	<5
10	178593	84	78.4	55.5	71%	3.7	13.1	0.1%	0.9%	0.4	0.3	6
7	163550	89	100.0	66.8	67%	6.4	20.0	2.4%	0.8%	0.0	0.0	5
7	164543	84	5.0	4.1	82%	1.3	N/A	0.9%	0.8%	0.0	0.2	<5
8	167583	86	13.1	6.1	47%	4.4	N/A	1.7%	0.8%	0.0	0.0	<5
6	159563	81	64.8	31.4	48%	N/A	6.5	0.8%	0.7%	1.7	0.0	10
7	160573	85	85.0	48.2	57%	2.9	12.1	0.7%	0.6%	4.4	0.7	7
8	165543	89	10.0	6.6	66%	1.9	N/A	8.1%	0.6%	0.0	0.0	<5
4	166563	82	5.0	2.4	48%	1.5	N/A	0.1%	0.6%	0.0	1.2	<5
10	175583	85	23.0	13.1	57%	1.6	N/A	0.5%	0.6%	0.0	0.0	<5
7	160560	87	157.8	99.6	63%	4.8	13.2	1.4%	0.6%	0.1	0.0	12
7	159563	86	7.3	5.1	71%	1.2	N/A	2.4%	0.6%	2.2	0.4	<5
7	164550	89	465.9	320.3	69%	4.5	14.6	2.3%	0.5%	0.0	2.7	32
7	161560	87	408.3	290.7	71%	4.4	12.4	1.3%	0.5%	0.0	0.0	33
10	177583	85	66.7	40.9	61%	1.5	8.3	1.3%	0.4%	0.2	0.4	8
5	164570	82	7.1	3.6	51%	2.0	N/A	0.6%	0.4%	7.3	4.9	<5
6	162553	88	136.2	109.4	80%	8.9	17.0	1.3%	0.4%	0.0	0.0	8
8	165543	84	47.0	33.0	70%	11.8	9.4	1.4%	0.4%	0.0	0.0	5
6	161560	89	779.1	528.2	68%	10.0	23.6	0.7%	0.4%	0.6	0.8	33
11	178593	85	142.9	97.9	68%	1.1	6.2	1.3%	0.3%	3.2	4.8	23
5	166580	86	15.3	7.2	47%	4.1	N/A	0.8%	0.3%	0.1	85.6	<5

Table II.17. Month/Block/Year records with the highest king crab bycatch rate (number of animals per metric ton of total catch) in the BSAI Pacific Cod trawl fishery.

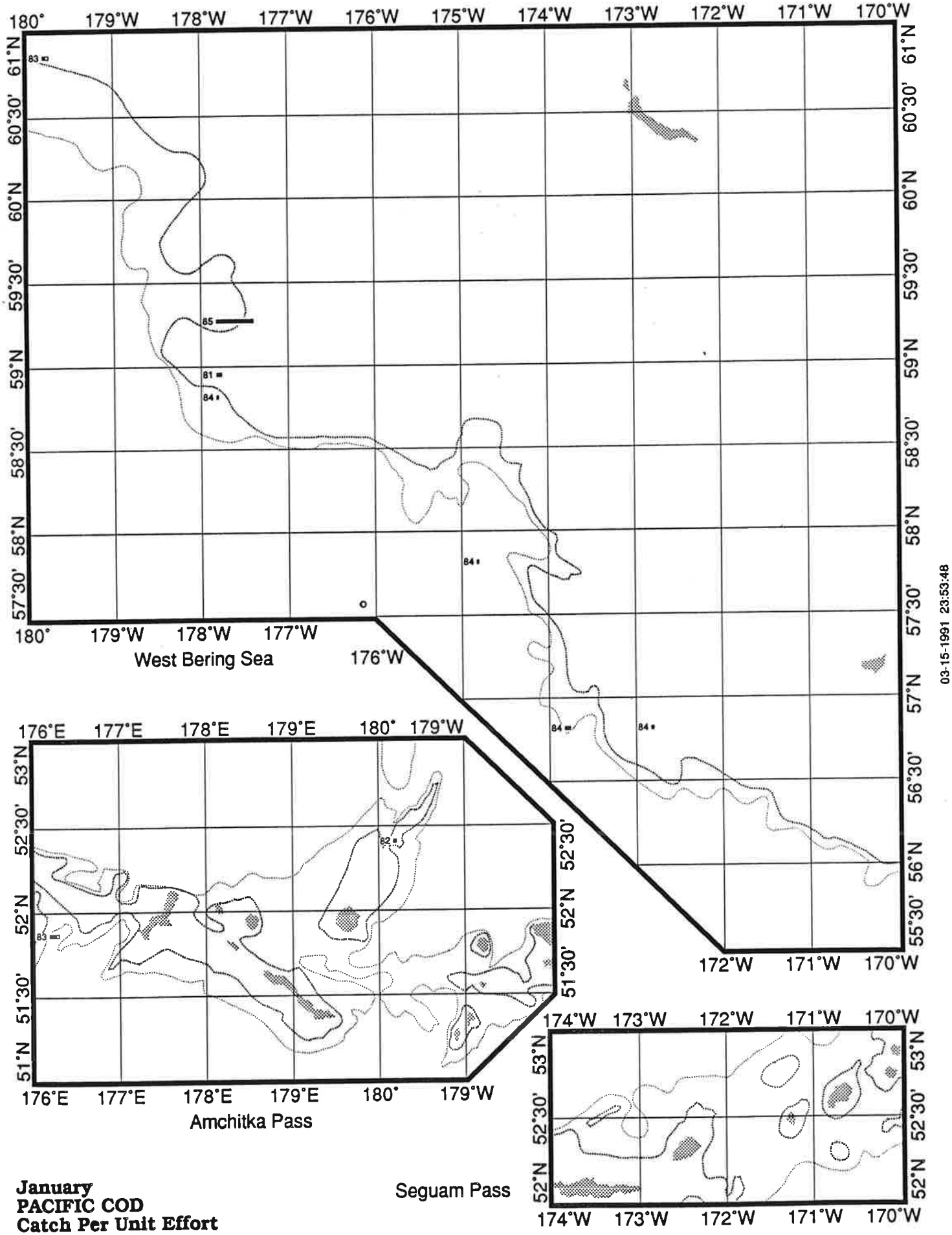
			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
7	159573	82	44.0	20.6	47%	N/A	N/A	1.5%	0.0%	51.6	0.0	<5
7	179603	84	10.4	7.0	67%	0.4	N/A	1.6%	0.0%	46.3	48.7	<5
5	160573	83	43.5	21.4	49%	N/A	6.2	0.1%	0.0%	43.5	0.0	7
12	164563	84	10.7	5.4	50%	1.1	N/A	0.0%	0.0%	31.8	5.7	<5
7	178600	84	18.9	14.2	75%	0.6	3.8	3.6%	0.0%	31.0	34.5	5
6	163570	85	10.9	6.8	63%	1.6	N/A	0.2%	0.0%	23.5	3.5	<5
7	178603	84	34.8	21.0	60%	0.6	3.5	2.8%	0.0%	19.7	57.6	10
2	178593	83	3.5	1.9	53%	0.7	N/A	0.7%	0.0%	19.1	2.0	<5
5	161560	88	2.1	1.1	54%	0.9	N/A	2.8%	0.0%	17.8	0.0	<5
5	179603	83	4.0	2.3	58%	0.6	N/A	0.5%	0.0%	17.0	23.8	<5
3	162553	85	5.1	2.9	57%	N/A	N/A	0.0%	0.0%	13.3	8.4	<5
9	161560	81	27.0	21.1	78%	N/A	N/A	0.0%	0.0%	13.3	3.3	<5
6	177593	82	1.3	0.9	71%	0.2	N/A	5.9%	0.0%	13.1	0.8	<5
6	178600	83	71.8	45.5	63%	0.7	4.5	2.2%	0.0%	10.7	18.4	16
6	179603	83	37.0	22.0	59%	0.6	3.7	2.2%	0.0%	10.3	16.1	10
8	166573	84	10.3	5.9	57%	2.3	N/A	0.0%	0.0%	10.2	0.1	<5
7	159570	85	9.2	5.2	57%	2.9	N/A	1.1%	0.0%	10.0	2.0	<5
8	160570	84	298.7	159.9	54%	13.5	13.6	0.2%	0.0%	9.4	0.6	22
7	161580	85	34.8	20.8	60%	3.2	N/A	1.2%	0.0%	8.5	0.2	<5
12	164573	83	2.0	0.9	46%	1.0	N/A	2.6%	0.0%	8.5	1.0	<5
11	171523	83	1.6	0.9	56%	0.3	N/A	12.8%	0.0%	8.1	0.0	<5
6	179603	84	51.9	31.0	60%	0.9	5.2	1.8%	0.0%	8.1	2.9	10
2	162560	88	23.0	12.7	55%	5.1	N/A	0.1%	0.0%	8.0	6.6	<5
5	159570	81	43.5	21.7	50%	N/A	8.7	0.3%	0.0%	8.0	7.5	5
11	180520	84	6.9	4.6	67%	0.7	N/A	13.9%	0.0%	7.7	0.0	<5
5	164570	82	7.1	3.6	51%	2.0	N/A	0.6%	0.4%	7.3	4.9	<5
7	160573	84	56.0	26.7	48%	24.5	N/A	0.0%	0.0%	6.8	0.6	<5
7	173593	87	5.0	2.6	53%	1.7	N/A	1.2%	0.0%	6.6	732.4	<5
10	179603	82	4.7	2.6	56%	0.2	N/A	3.9%	0.0%	6.4	6.0	<5
6	178600	84	154.9	92.8	60%	1.1	6.0	1.6%	0.0%	6.1	6.9	26
8	163573	84	12.2	6.4	52%	4.1	N/A	0.3%	0.0%	6.1	0.3	<5
5	178600	83	35.2	21.1	60%	1.0	5.0	1.0%	0.0%	6.0	98.9	7
7	161553	89	9.3	5.2	56%	4.4	N/A	0.4%	0.0%	5.9	0.1	<5
3	178593	83	17.0	9.2	54%	3.1	N/A	0.1%	0.0%	5.9	8.6	<5
10	178583	84	1.6	1.3	81%	0.3	N/A	0.0%	0.0%	5.6	8.1	<5
10	173573	84	5.1	3.3	65%	2.1	N/A	0.0%	0.0%	5.5	0.0	<5
9	160570	84	458.5	252.3	55%	10.7	13.9	0.7%	0.0%	5.4	2.1	33
7	163580	85	3.4	1.8	53%	0.9	N/A	13.2%	0.0%	5.3	0.0	<5
9	177590	84	0.4	0.2	45%	0.1	N/A	0.0%	0.0%	5.0	0.0	<5
10	178590	84	36.6	26.1	71%	0.8	4.1	0.1%	0.0%	4.9	41.9	9
11	179593	84	3.9	2.6	68%	0.7	N/A	0.2%	0.0%	4.9	2.6	<5
6	177583	81	2.9	1.6	54%	0.5	N/A	1.5%	0.0%	4.8	8.3	<5
6	160570	85	40.1	19.6	49%	5.7	N/A	0.1%	0.0%	4.4	5.7	<5

Table II.18. Month/Block/Year records with the highest Tanner crab bycatch rate (number of animals per metric ton of total catch) in the BSAI Pacific Cod trawl fishery.

			Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Mo	Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
6	165573	86	14.3	8.6	60%	2.6	N/A	0.1%	0.0%	0.1	1,133.4	<5
7	173593	87	5.0	2.6	53%	1.7	N/A	1.2%	0.0%	6.6	732.4	<5
4	171573	83	0.4	0.2	50%	0.2	N/A	0.0%	0.0%	0.0	420.0	<5
3	175583	81	3.0	1.9	63%	4.5	N/A	3.7%	2.0%	0.0	402.7	<5
7	170593	87	10.7	5.8	54%	2.4	N/A	0.0%	0.0%	0.0	397.8	<5
2	167570	81	1.3	0.9	65%	0.4	N/A	0.3%	0.0%	0.0	386.9	<5
11	166550	89	16.6	13.1	79%	5.5	N/A	6.0%	0.1%	0.0	331.9	<5
5	168580	86	2.6	1.5	57%	2.6	N/A	1.0%	1.2%	0.0	326.2	<5
5	168573	87	5.3	2.4	46%	1.1	N/A	1.9%	0.0%	0.0	256.6	<5
5	170583	83	0.4	0.2	48%	0.2	N/A	2.6%	0.0%	0.0	250.0	<5
7	172603	87	482.4	282.2	59%	2.6	16.6	0.5%	0.0%	0.8	194.8	29
5	167580	87	49.7	23.0	46%	3.0	N/A	0.2%	0.2%	0.0	179.9	<5
6	178590	81	3.6	2.4	66%	0.7	N/A	2.5%	0.0%	0.0	141.1	<5
2	167563	84	1.8	0.9	52%	0.6	N/A	6.0%	0.0%	0.0	137.8	<5
7	169590	88	112.4	61.1	54%	3.5	18.7	0.5%	0.1%	0.0	133.3	6
6	168573	86	150.0	76.1	51%	3.0	16.7	0.4%	0.0%	0.1	131.1	9
6	167573	86	399.5	215.9	54%	3.7	18.2	0.2%	0.1%	0.0	130.9	22
2	178600	81	4.2	3.1	73%	0.7	N/A	0.5%	0.0%	3.3	126.4	<5
2	165540	83	29.9	18.6	62%	N/A	N/A	0.1%	0.0%	0.0	124.4	<5
4	167570	87	51.4	25.9	50%	3.5	N/A	0.2%	0.0%	0.1	122.7	<5
8	164550	89	8.2	4.6	56%	1.9	N/A	1.9%	0.0%	0.0	114.6	<5
6	178590	83	1.4	1.3	92%	0.2	N/A	0.8%	0.0%	0.0	108.6	<5
3	170563	83	1.3	0.9	68%	0.9	N/A	7.2%	0.0%	0.0	100.8	<5
7	177590	82	0.8	0.7	90%	0.1	N/A	0.0%	0.0%	0.0	100.0	<5
5	178600	83	35.2	21.1	60%	1.0	5.0	1.0%	0.0%	6.0	98.9	7
9	167563	89	22.9	14.7	64%	2.9	N/A	2.6%	0.2%	0.0	92.5	<5
12	169560	86	7.7	4.1	54%	0.8	N/A	5.9%	0.0%	0.0	88.6	<5
9	168563	89	14.5	10.9	75%	2.4	N/A	2.6%	0.0%	0.0	88.6	<5
5	175583	82	4.4	2.3	51%	0.4	N/A	2.4%	0.0%	0.0	87.3	<5
11	175583	84	83.3	58.7	70%	1.2	6.0	0.4%	0.0%	0.1	86.4	14
5	166580	86	15.3	7.2	47%	4.1	N/A	0.8%	0.3%	0.1	85.6	<5
12	175583	82	4.4	3.3	74%	0.8	N/A	3.5%	0.0%	0.0	80.0	<5
12	177590	84	1.4	1.2	85%	0.3	N/A	0.0%	0.0%	0.0	76.4	<5
12	175583	85	6.0	2.8	46%	1.0	N/A	1.5%	0.0%	0.0	76.2	<5
6	178600	85	3.5	1.6	47%	1.2	N/A	2.0%	0.0%	1.1	75.4	<5
2	178603	81	8.2	4.0	49%	1.5	N/A	1.6%	0.0%	2.7	75.1	<5
12	168560	84	4.6	2.7	59%	1.3	N/A	0.0%	0.0%	3.0	74.3	<5
12	177590	83	2.2	1.8	82%	0.4	N/A	2.2%	0.0%	1.4	69.5	<5
6	169580	87	4.9	2.5	50%	1.2	N/A	0.0%	0.0%	0.0	68.8	<5
6	178583	84	83.9	77.3	92%	1.6	7.6	0.8%	0.0%	0.5	65.4	11
4	166540	84	12.6	9.6	77%	4.4	N/A	1.9%	0.0%	0.0	64.4	<5
6	167570	86	12.9	6.5	50%	2.3	N/A	0.3%	0.0%	0.1	60.4	<5
10	166580	85	8.3	4.7	56%	1.1	N/A	0.1%	0.0%	0.2	60.2	<5

SECTION III

CATCH PER UNIT EFFORT CHARTS



January
PACIFIC COD
Catch Per Unit Effort

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

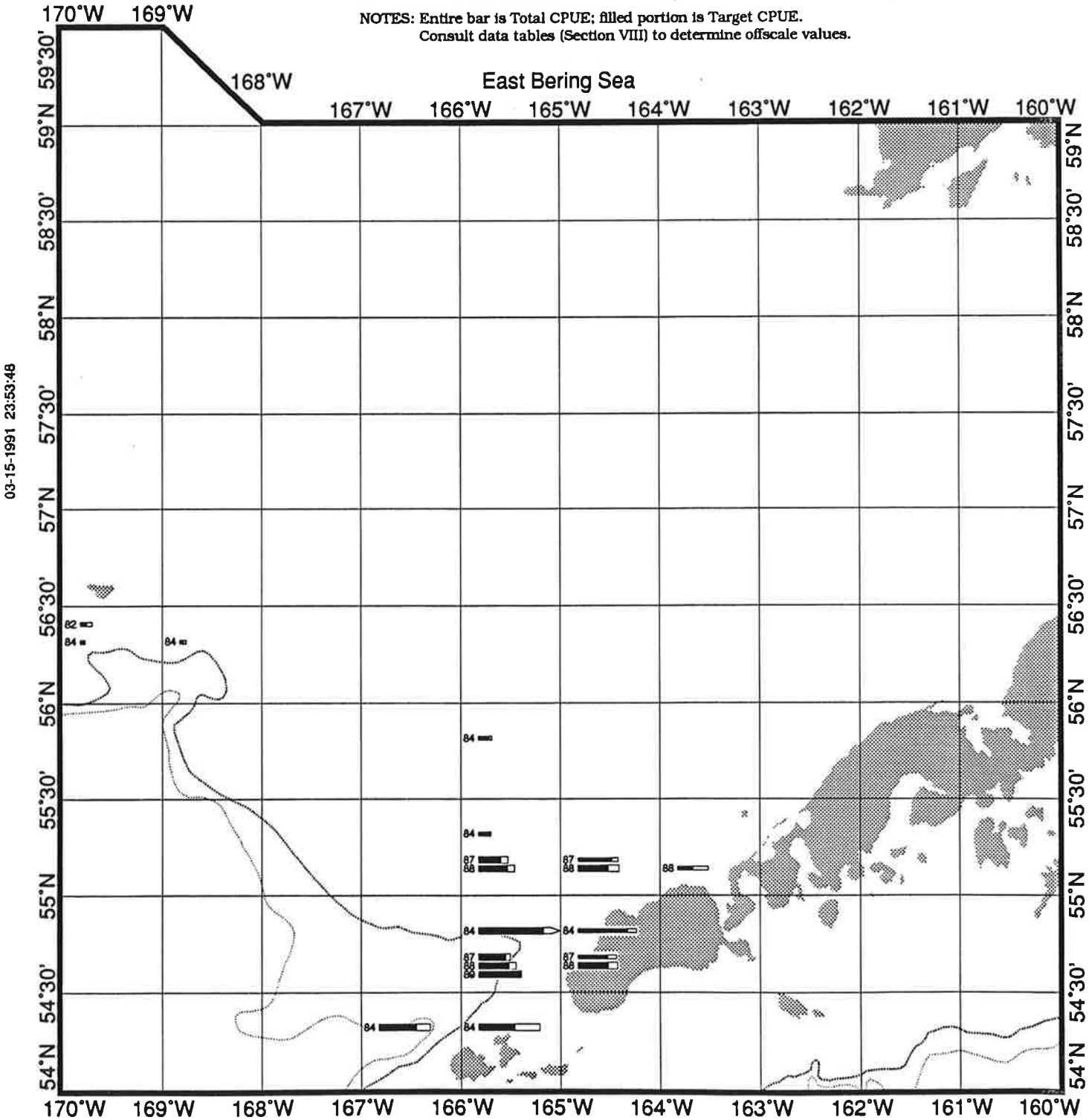
January
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

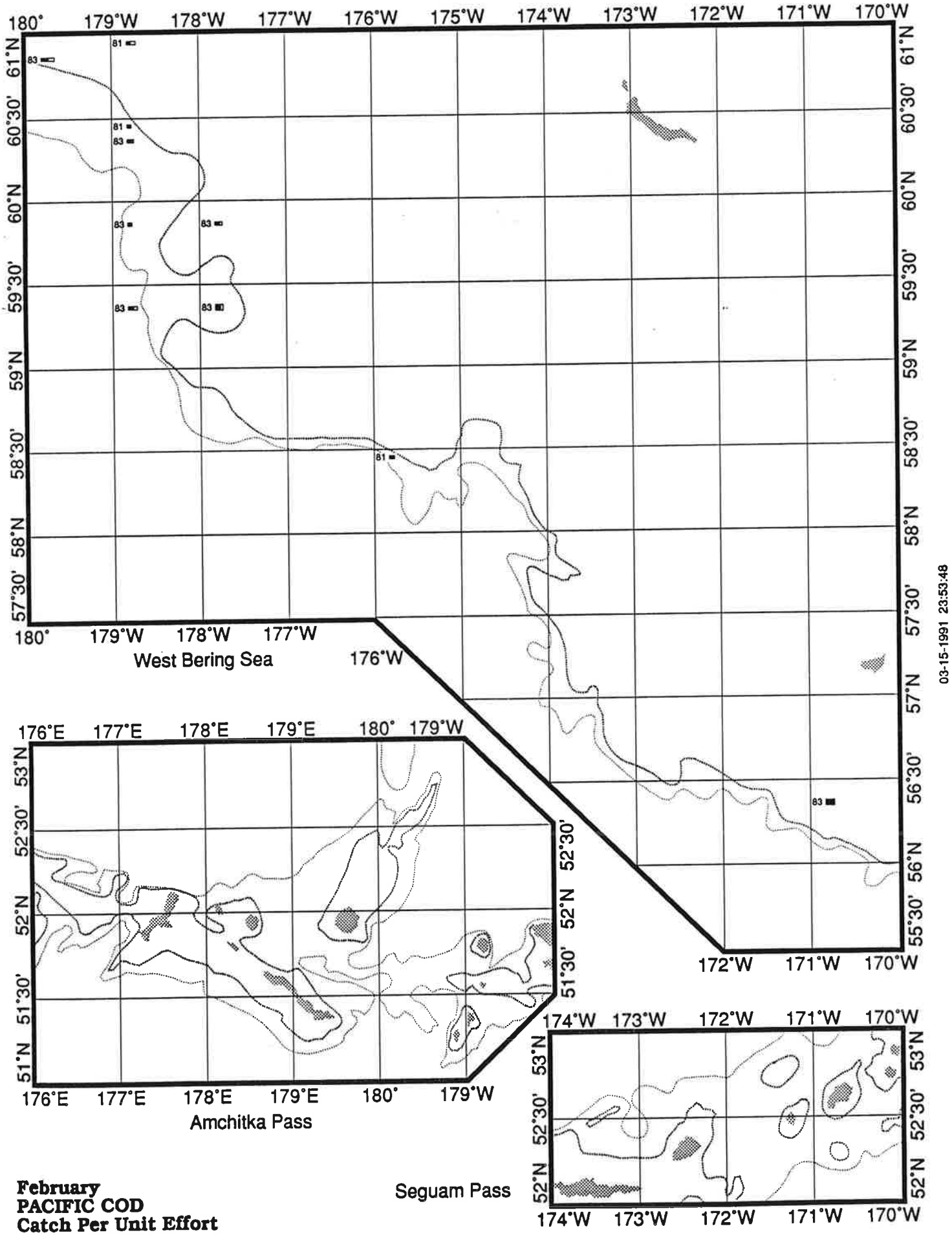
0 5 10 SCALE: Metric Tons Per Hour.

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.



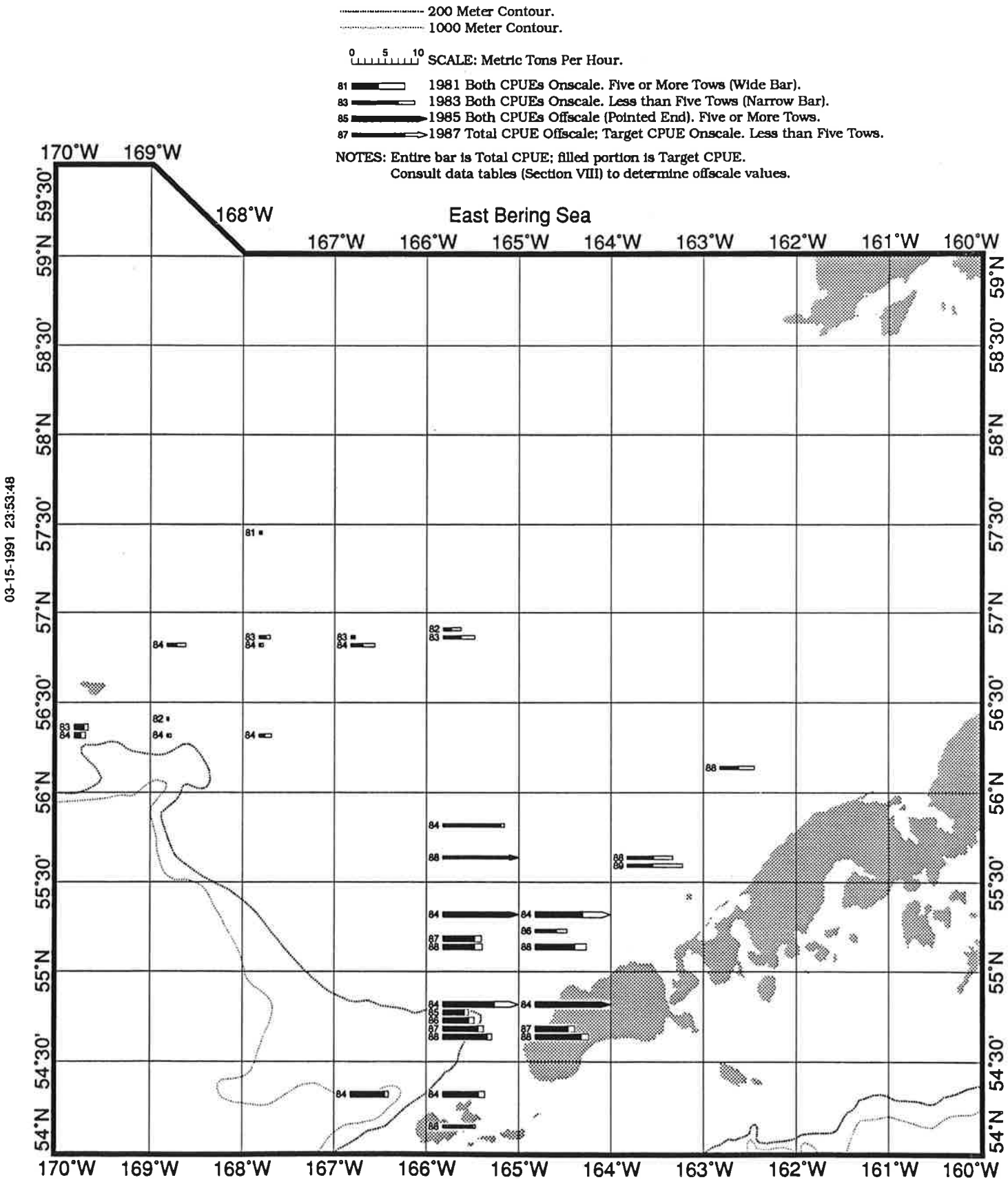
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



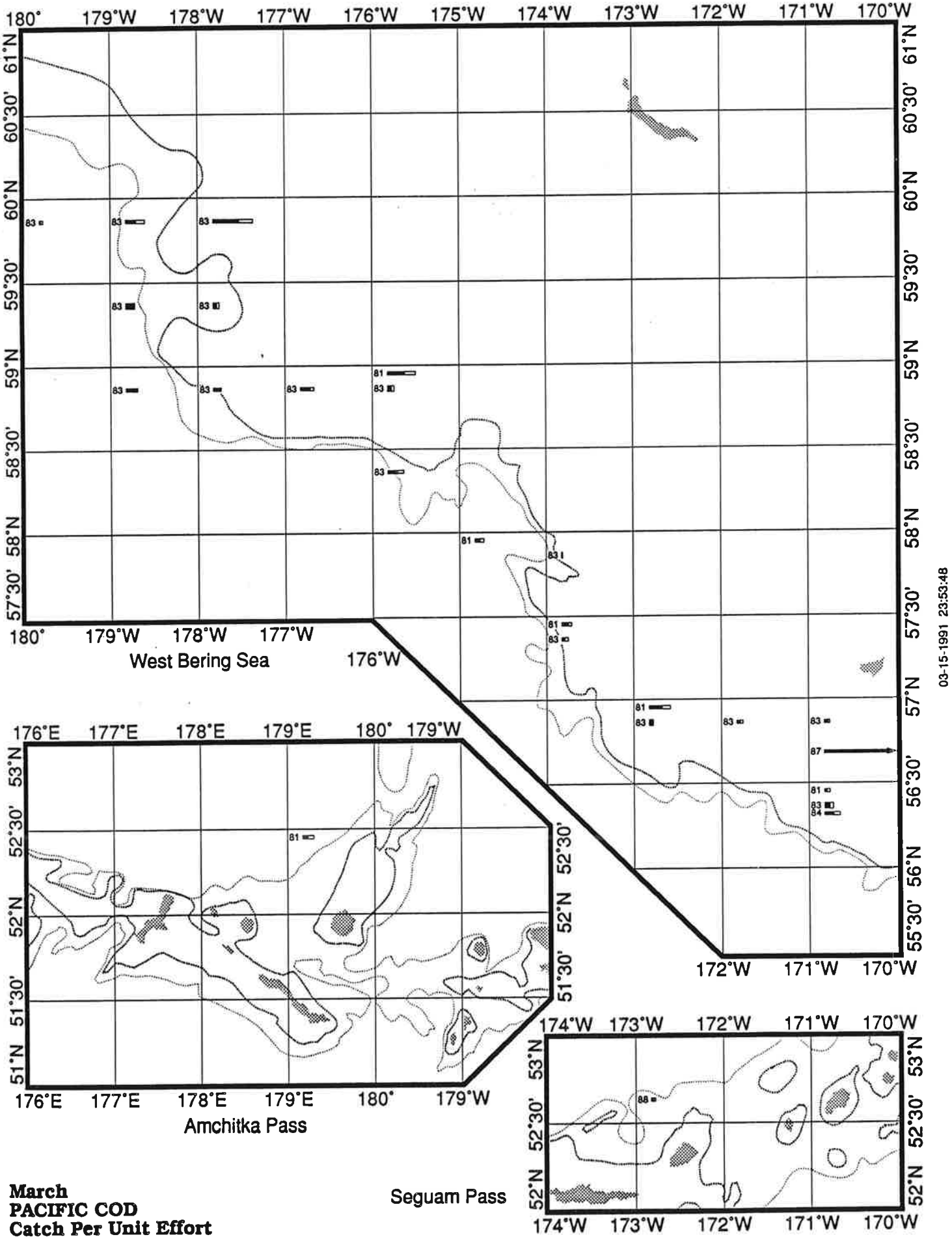
February
PACIFIC COD
Catch Per Unit Effort

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

February
PACIFIC COD
Catch Per Unit Effort



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



March
PACIFIC COD
Catch Per Unit Effort

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

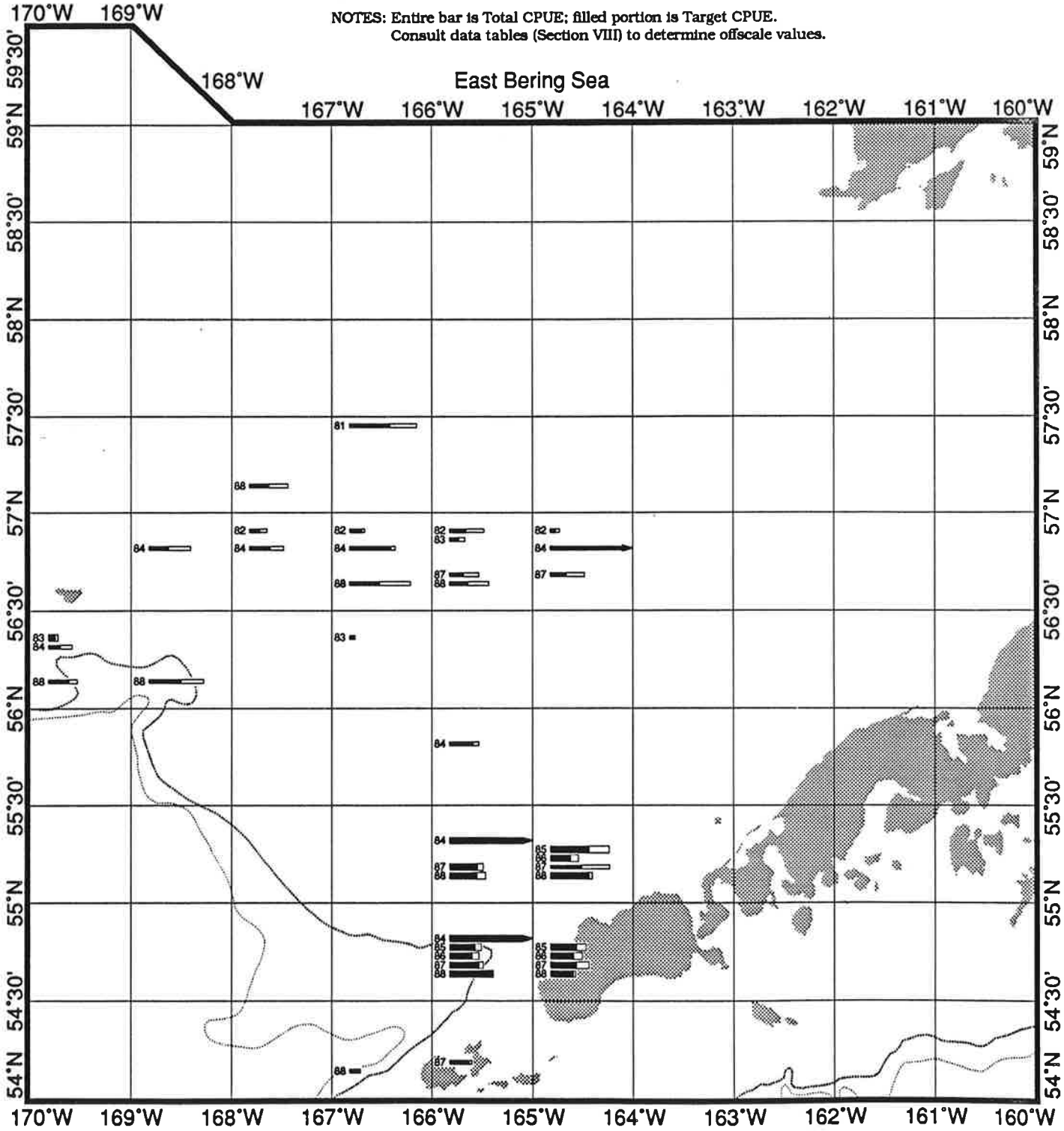
March
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

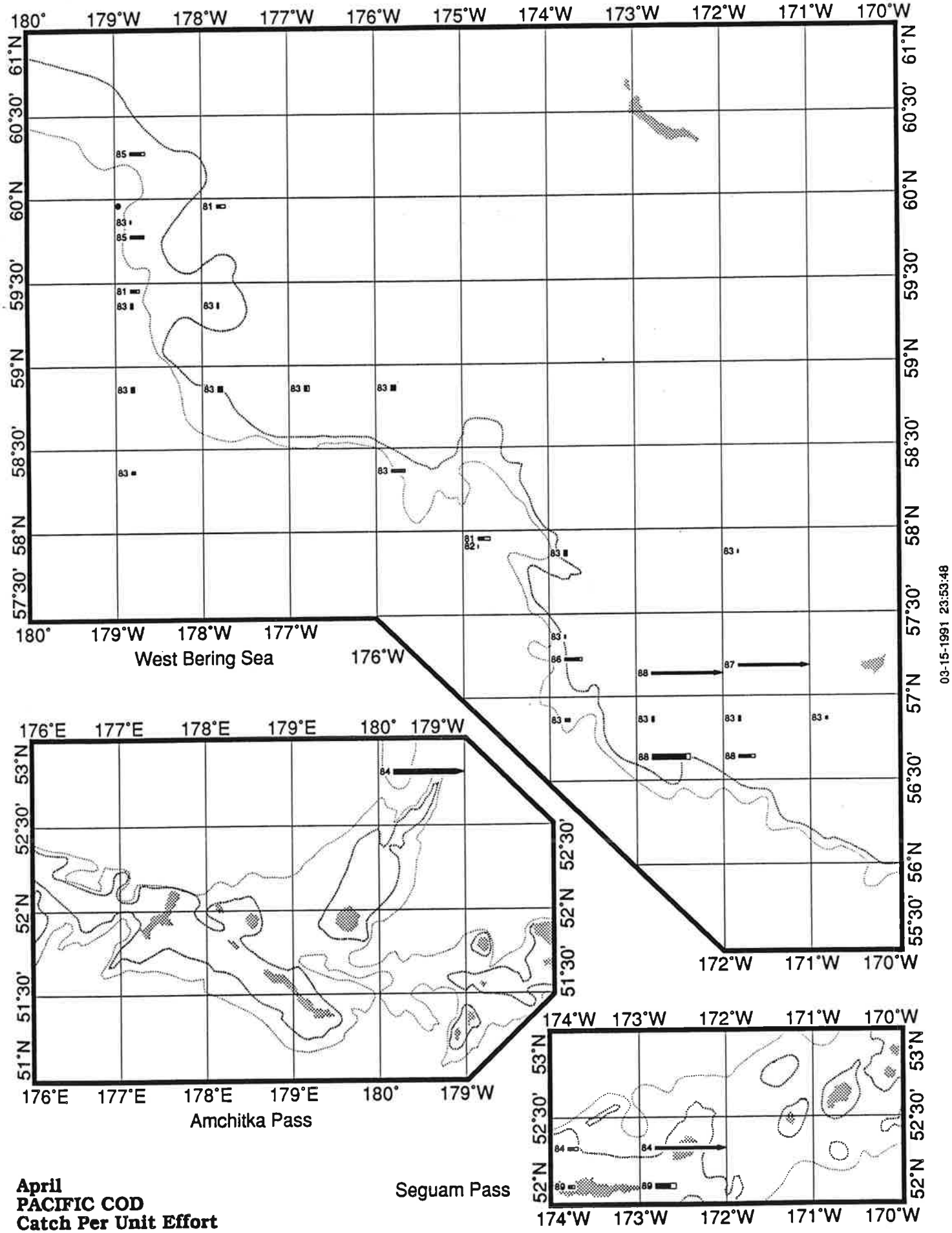
0 5 10 SCALE: Metric Tons Per Hour.

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.



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



April
PACIFIC COD
Catch Per Unit Effort

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

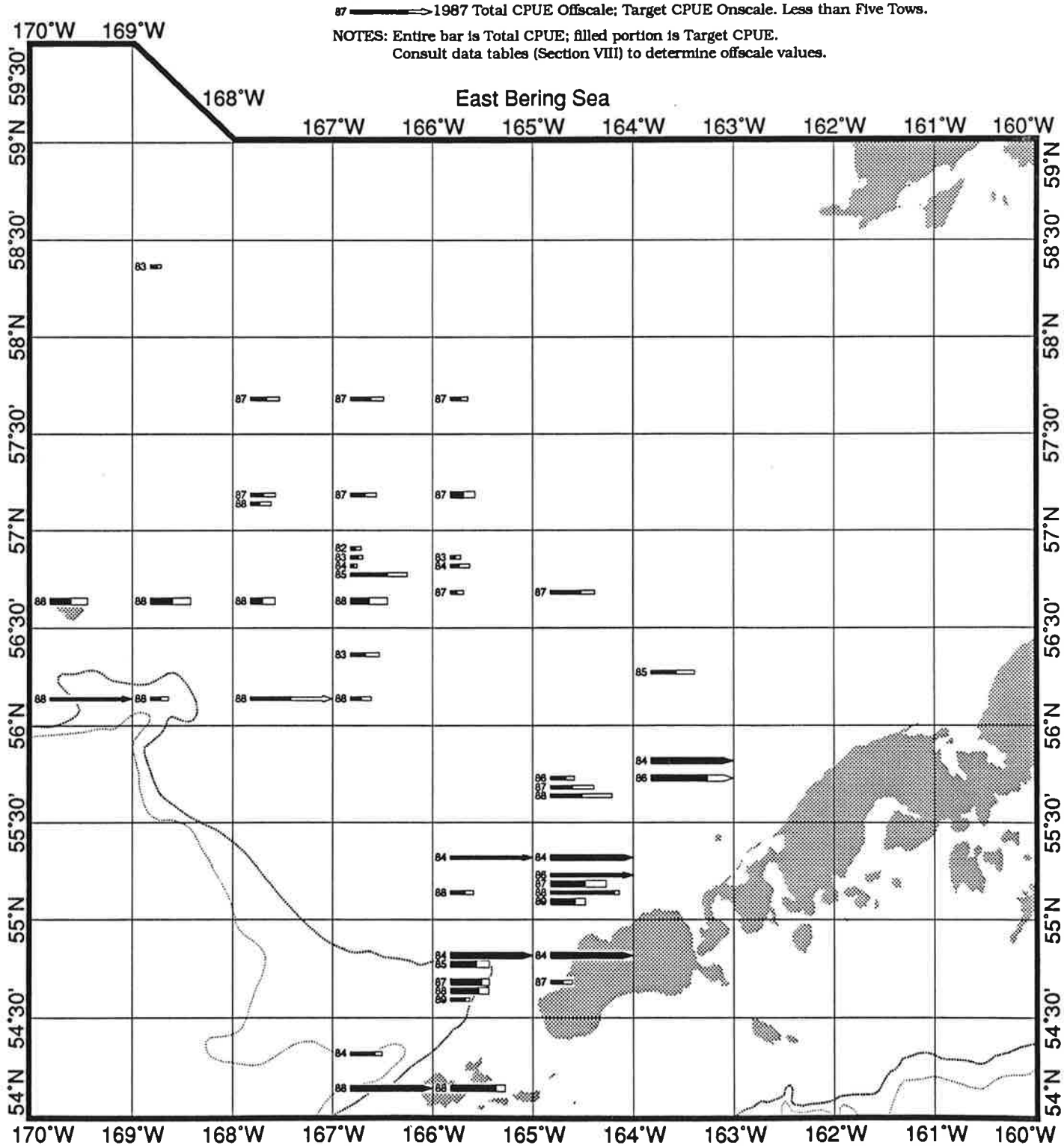
April
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

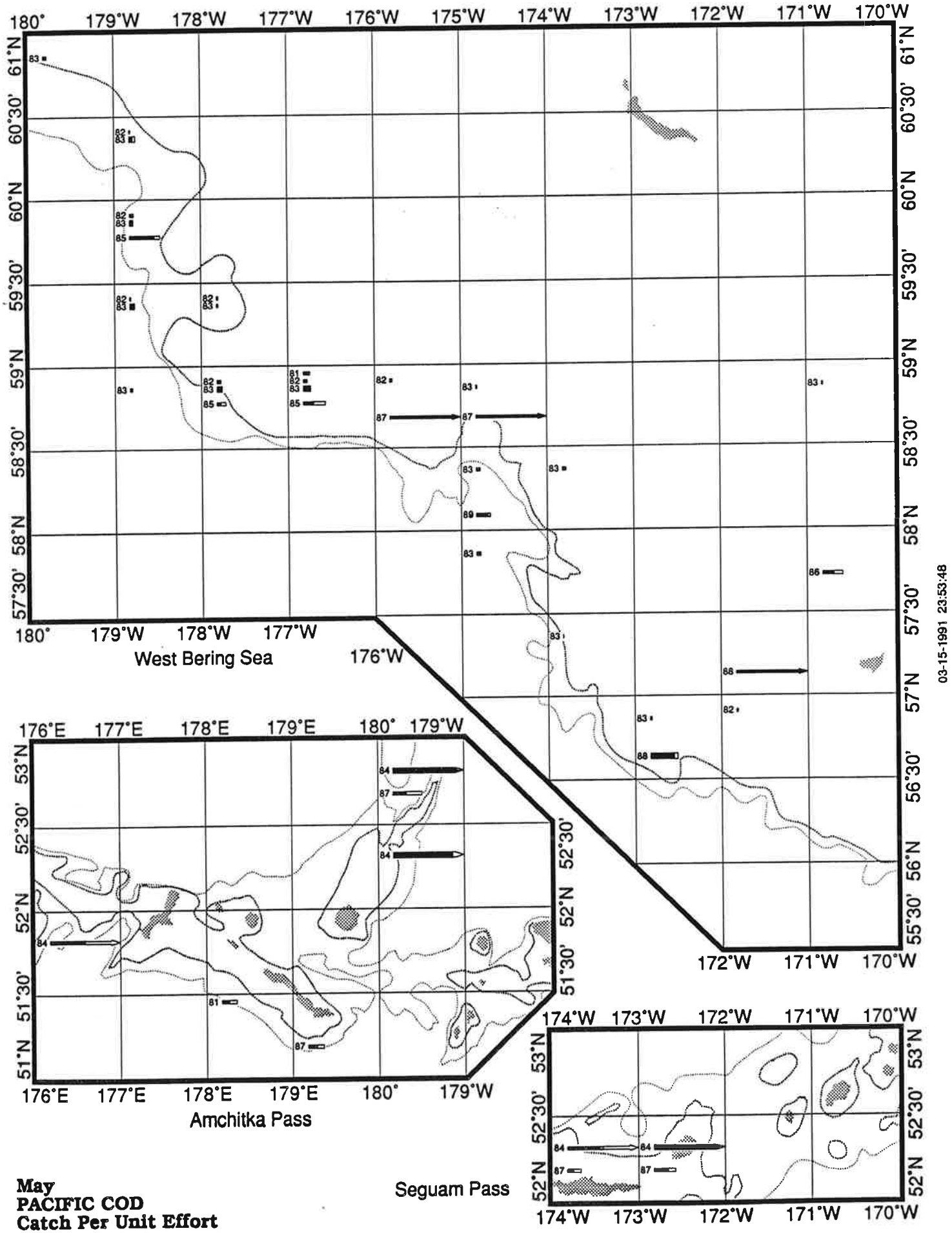
81 1981 Both CPUEs Onscale. Five or More Tows (Wide Bar).
83 1983 Both CPUEs Onscale. Less than Five Tows (Narrow Bar).
85 1985 Both CPUEs Offscale (Pointed End). Five or More Tows.
87 1987 Total CPUE Offscale; Target CPUE Onscale. Less than Five Tows.

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



03-15-1991 23:53:48

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



May
PACIFIC COD
Catch Per Unit Effort

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

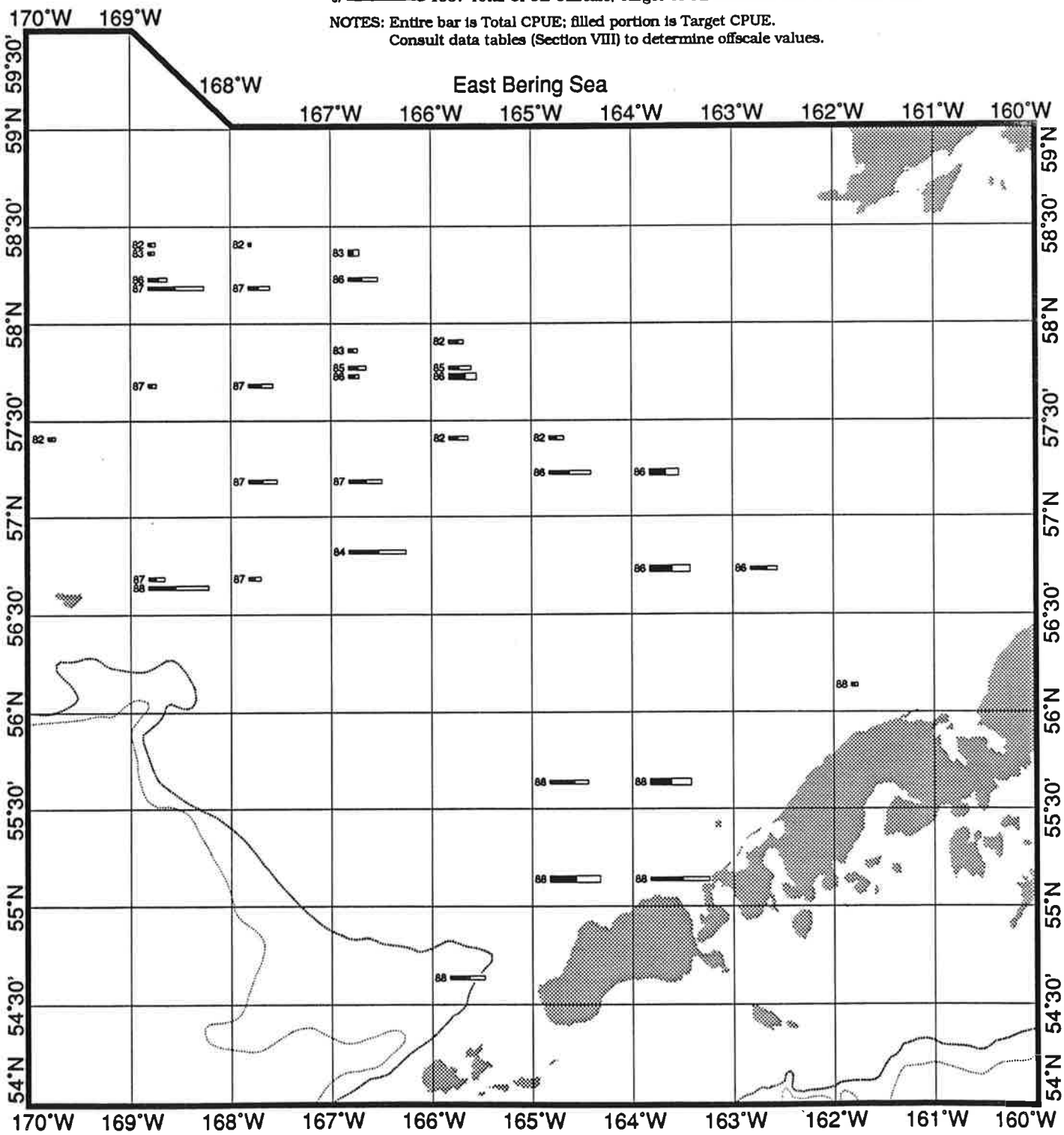
May
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

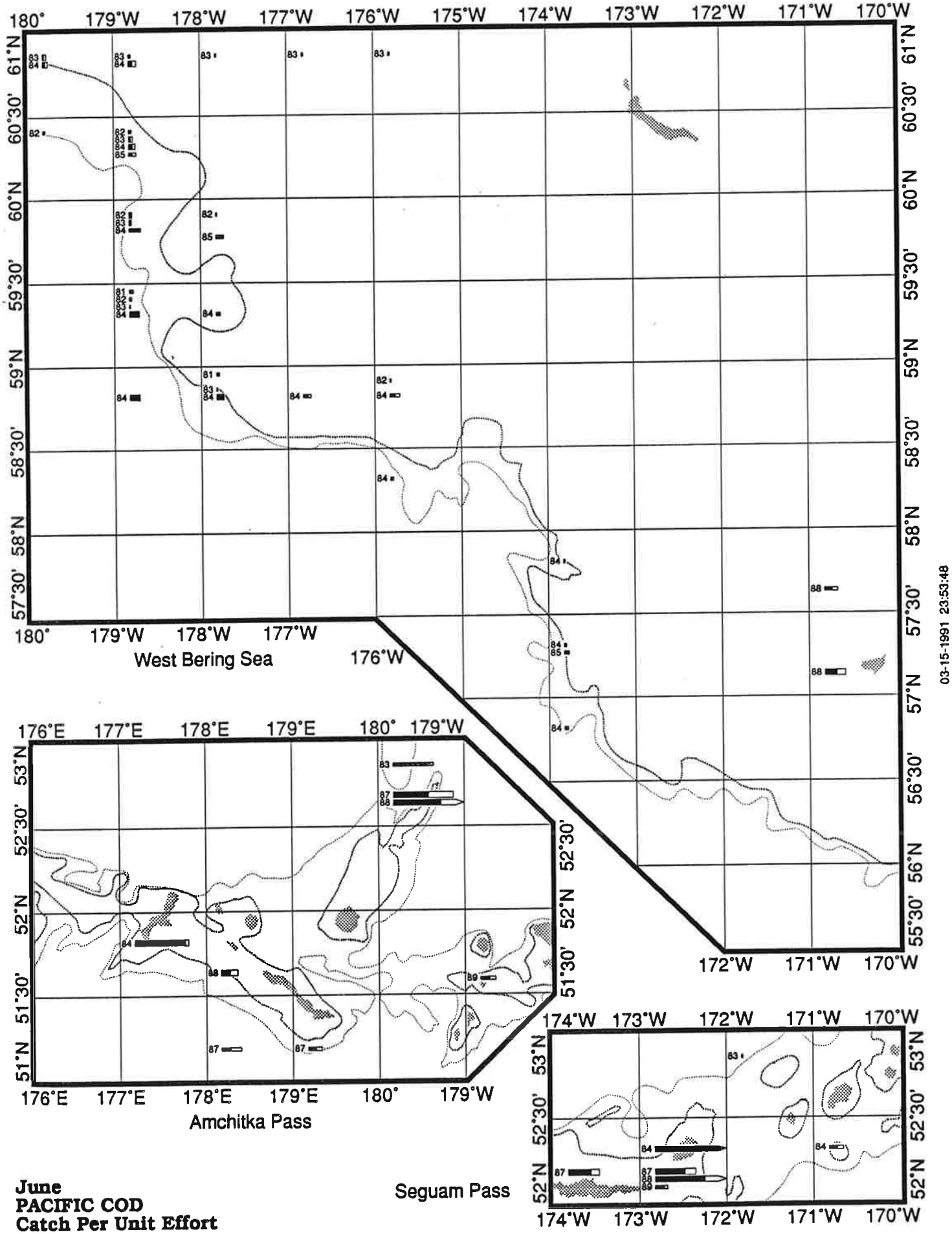
0 5 10 SCALE: Metric Tons Per Hour.

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.



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



June
PACIFIC COD
Catch Per Unit Effort

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

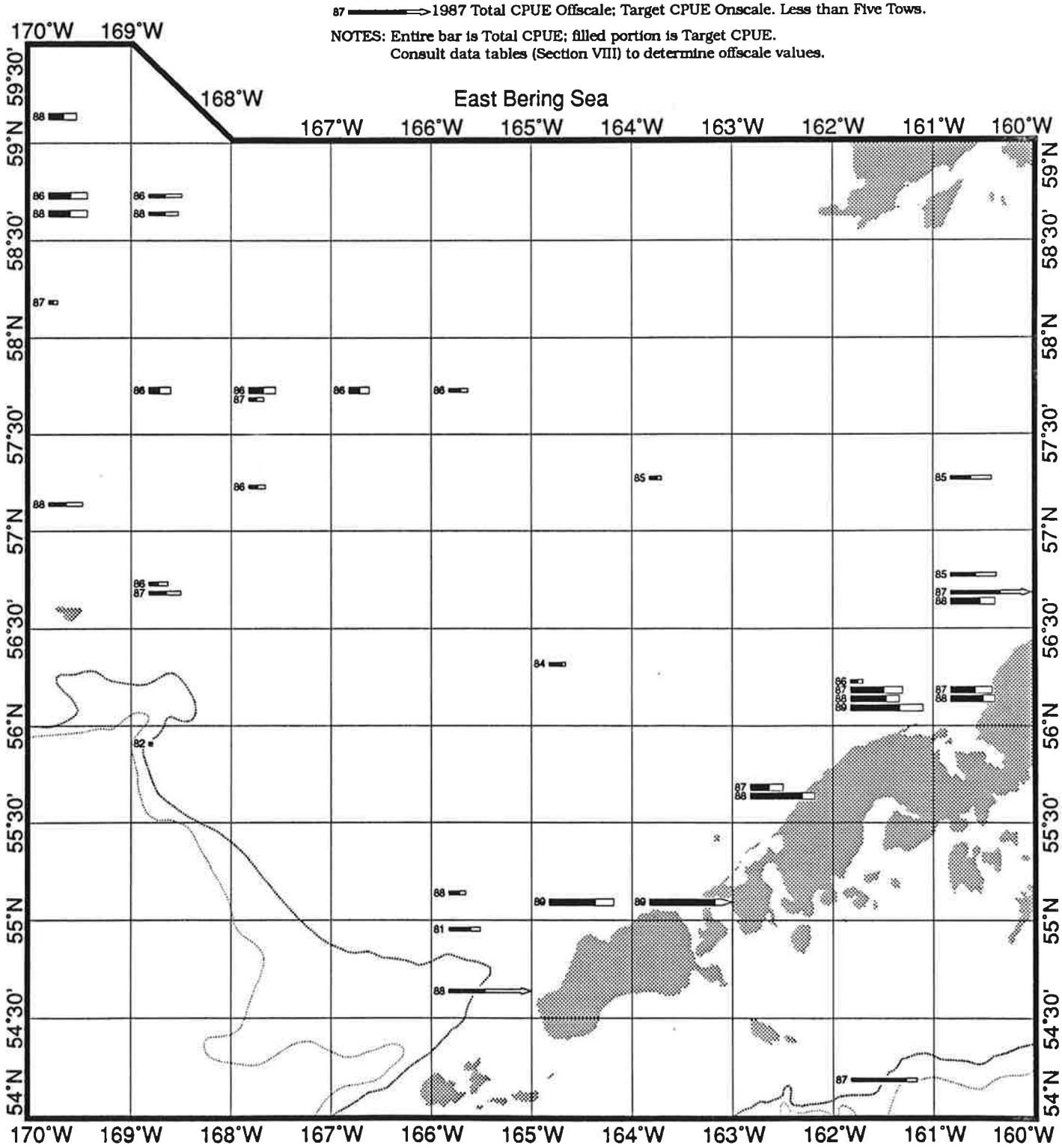
June
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

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.



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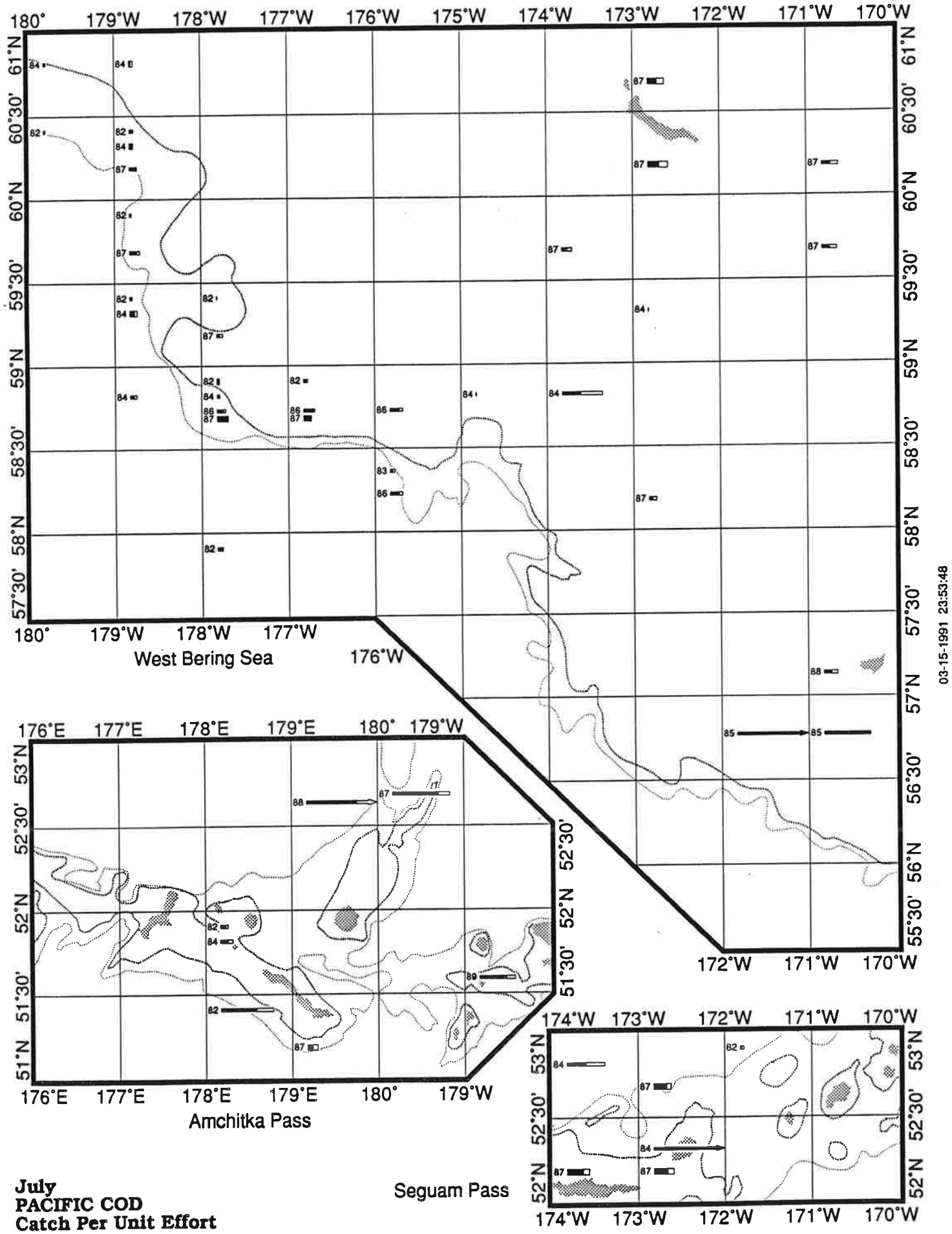
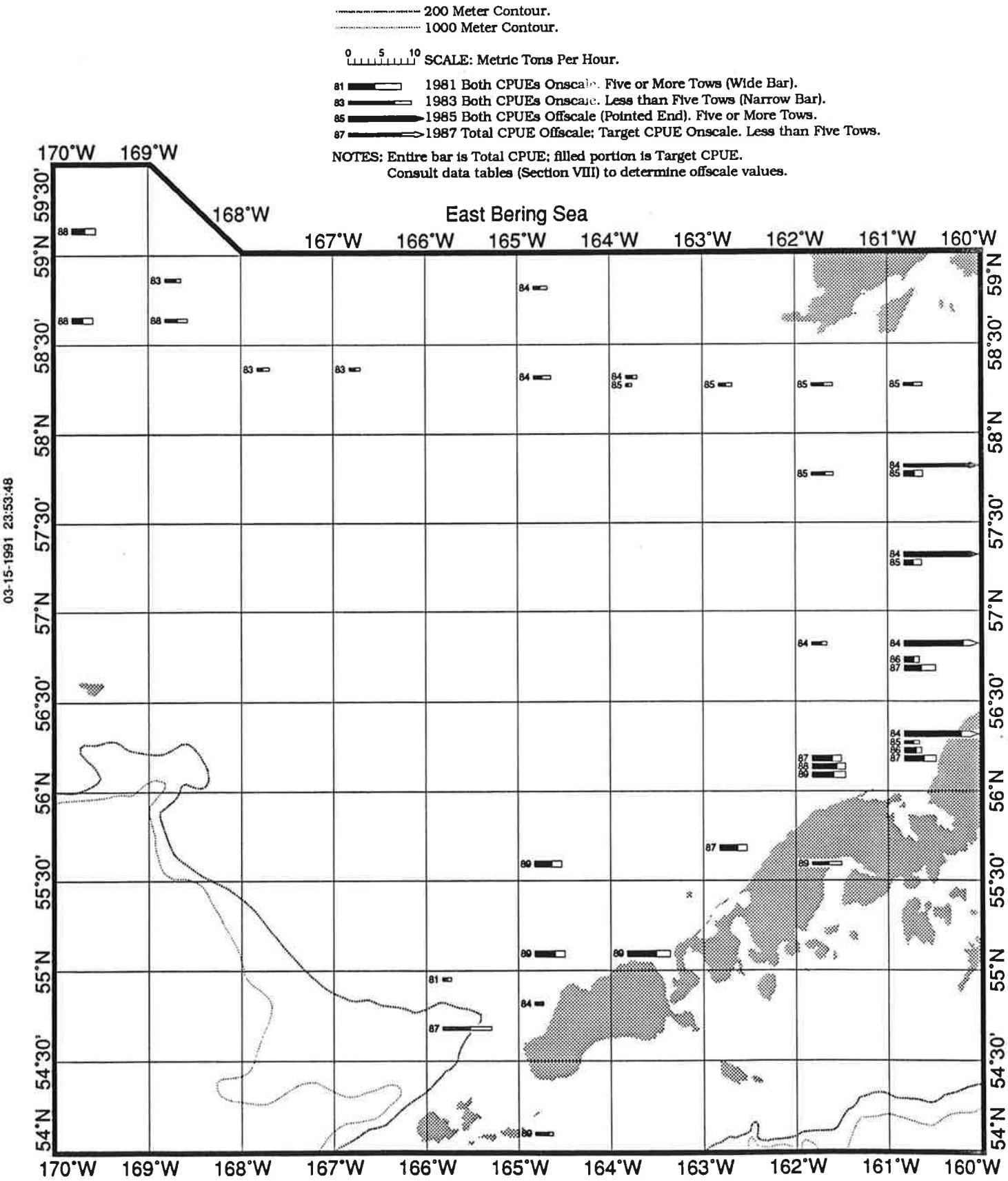
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



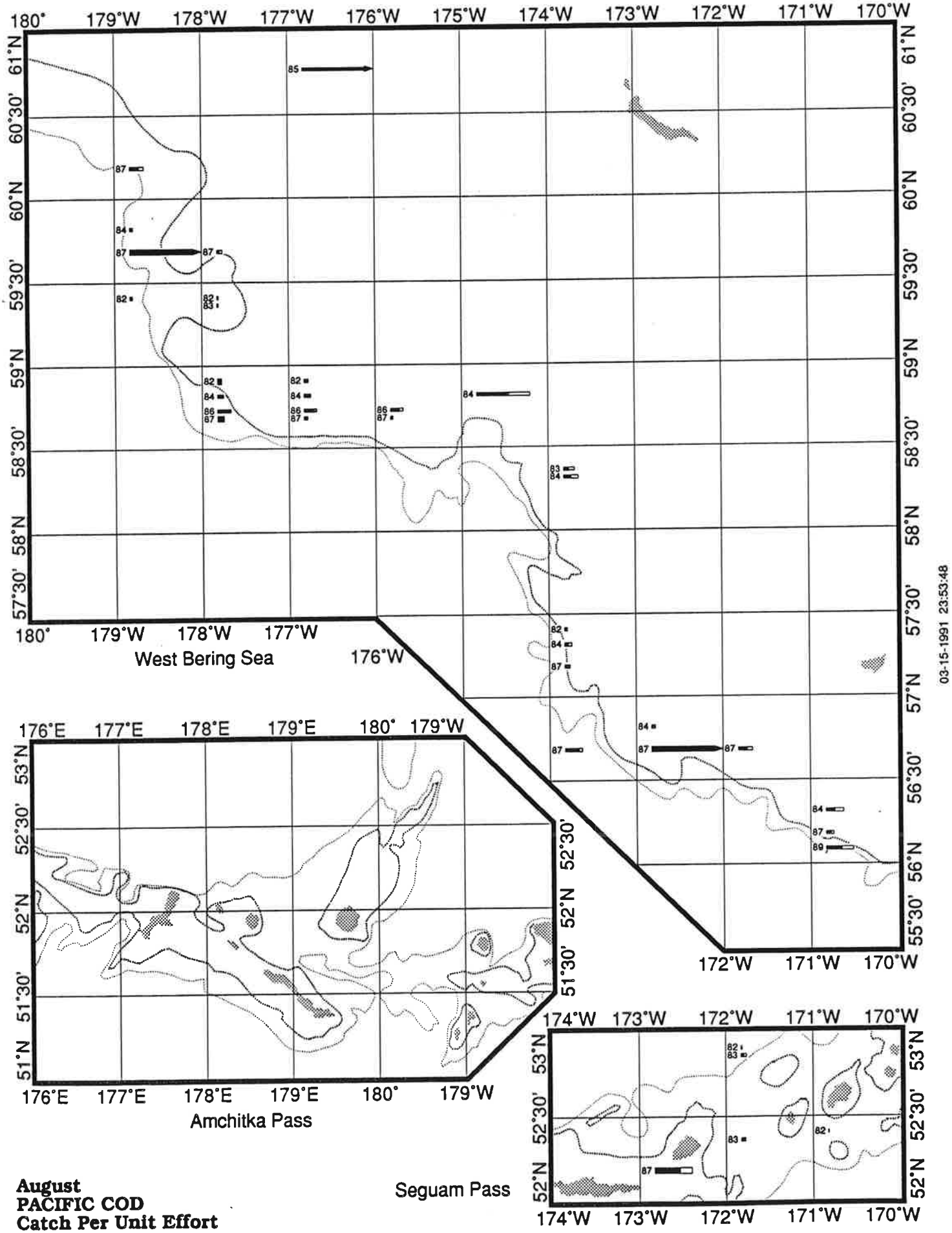
July
PACIFIC COD
Catch Per Unit Effort

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

July
PACIFIC COD
Catch Per Unit Effort



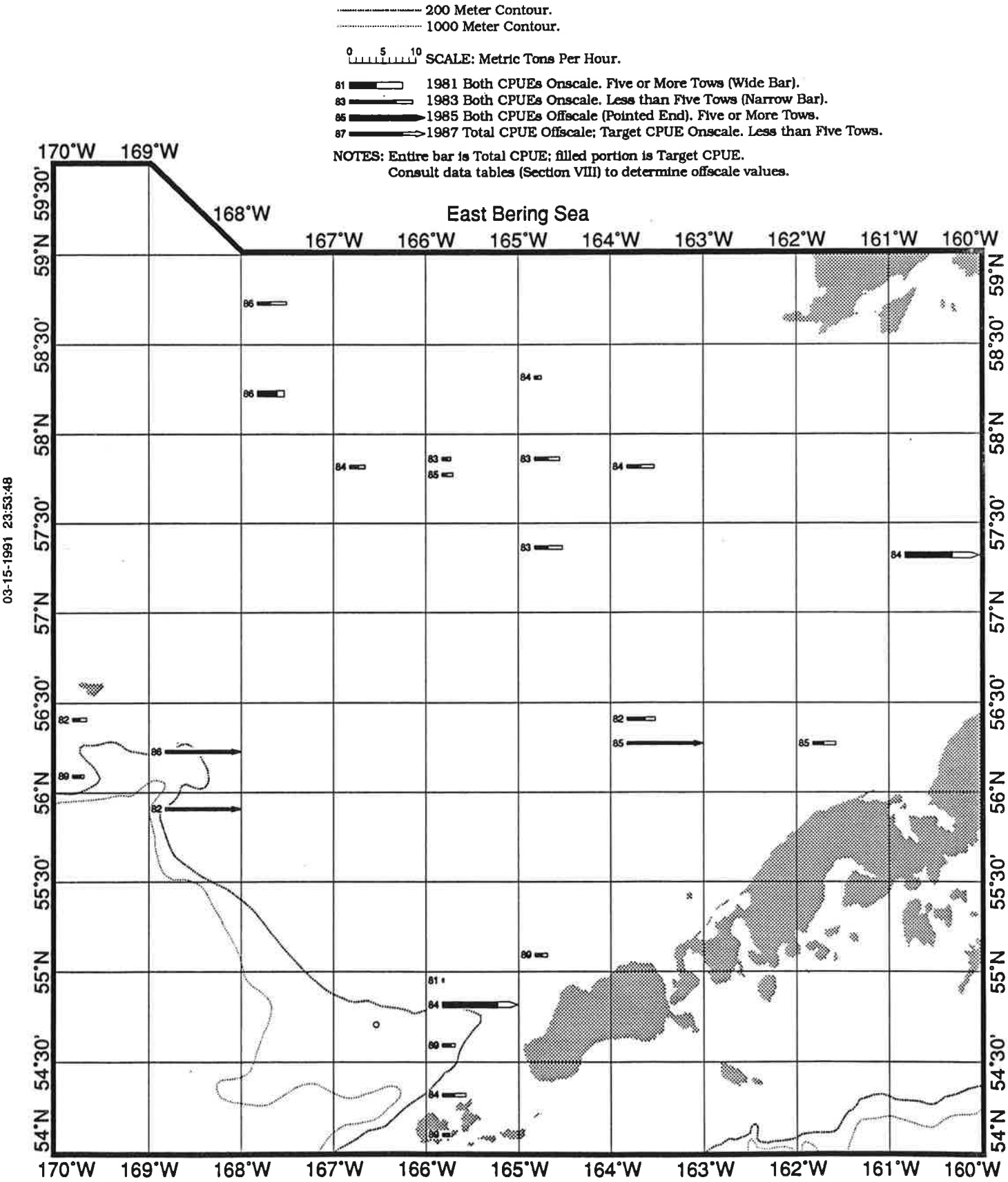
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



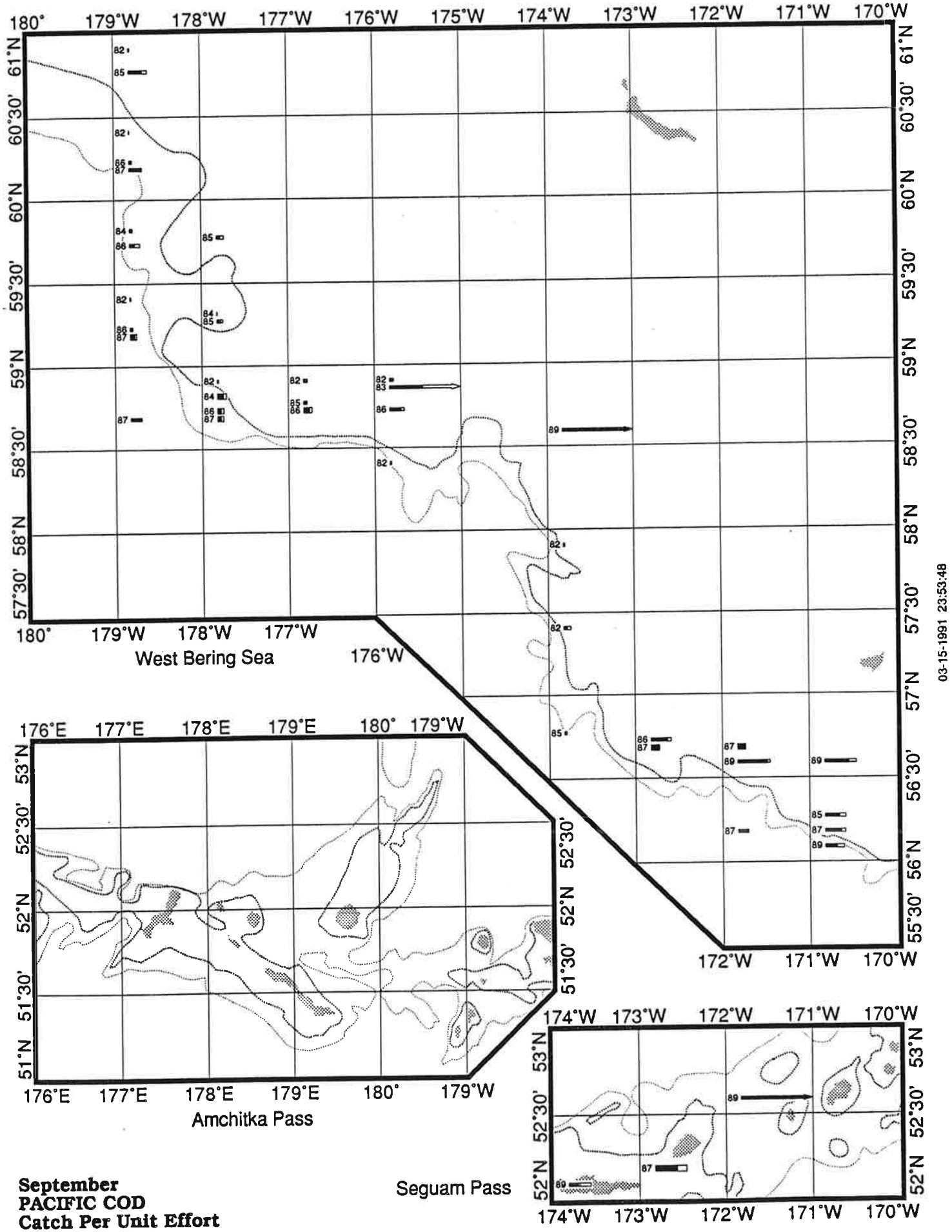
August
PACIFIC COD
Catch Per Unit Effort

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

August
PACIFIC COD
Catch Per Unit Effort



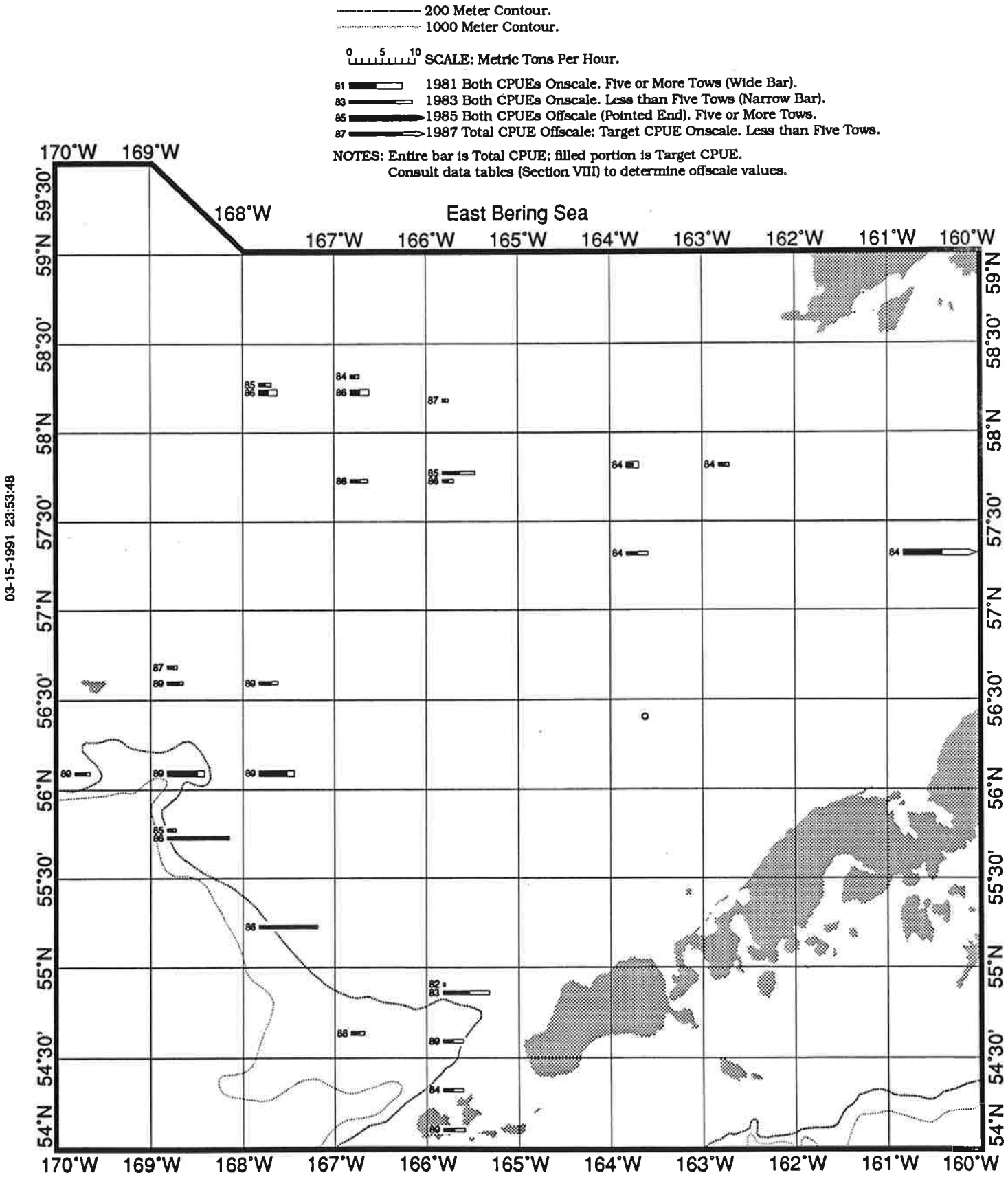
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



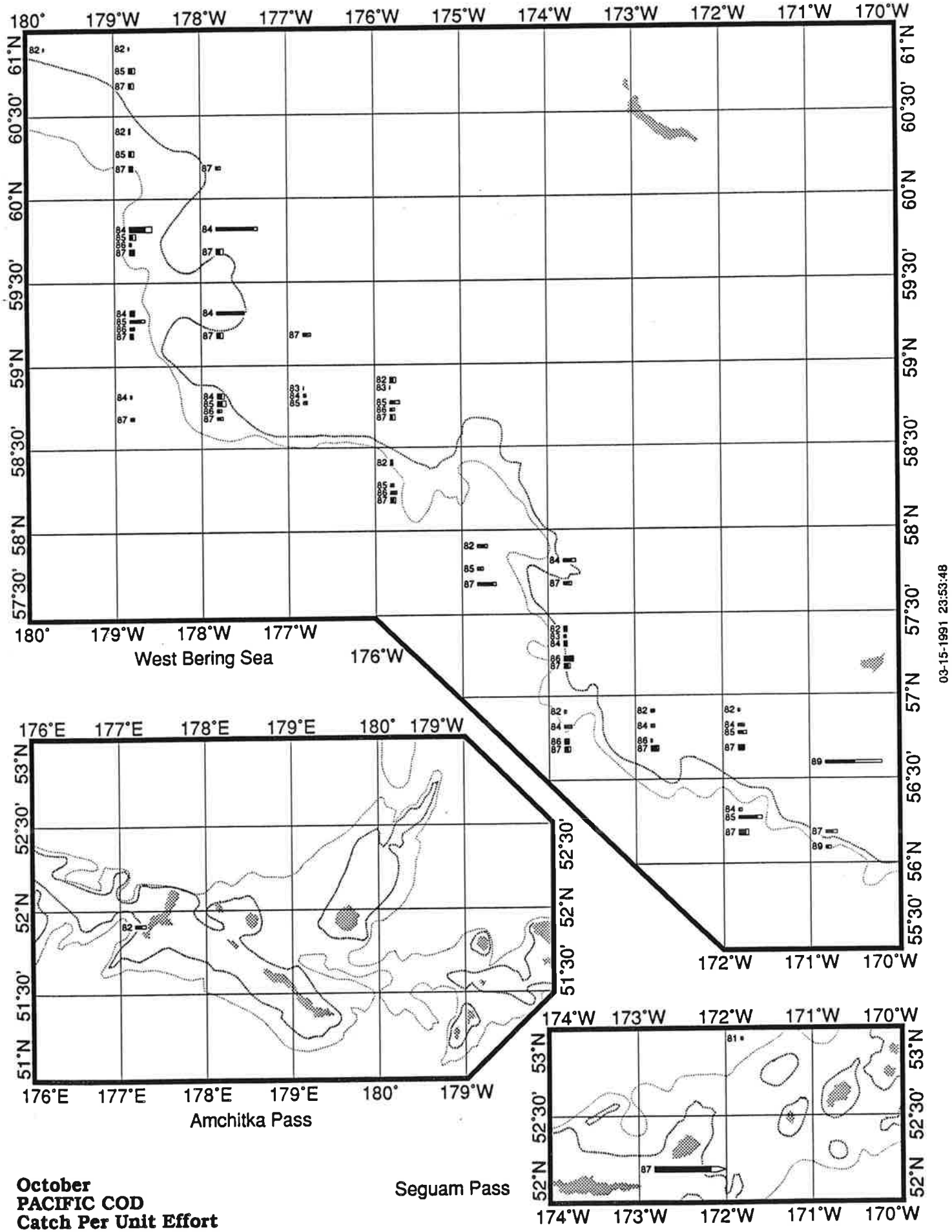
September
PACIFIC COD
Catch Per Unit Effort

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

September
PACIFIC COD
Catch Per Unit Effort



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



October
PACIFIC COD
Catch Per Unit Effort

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

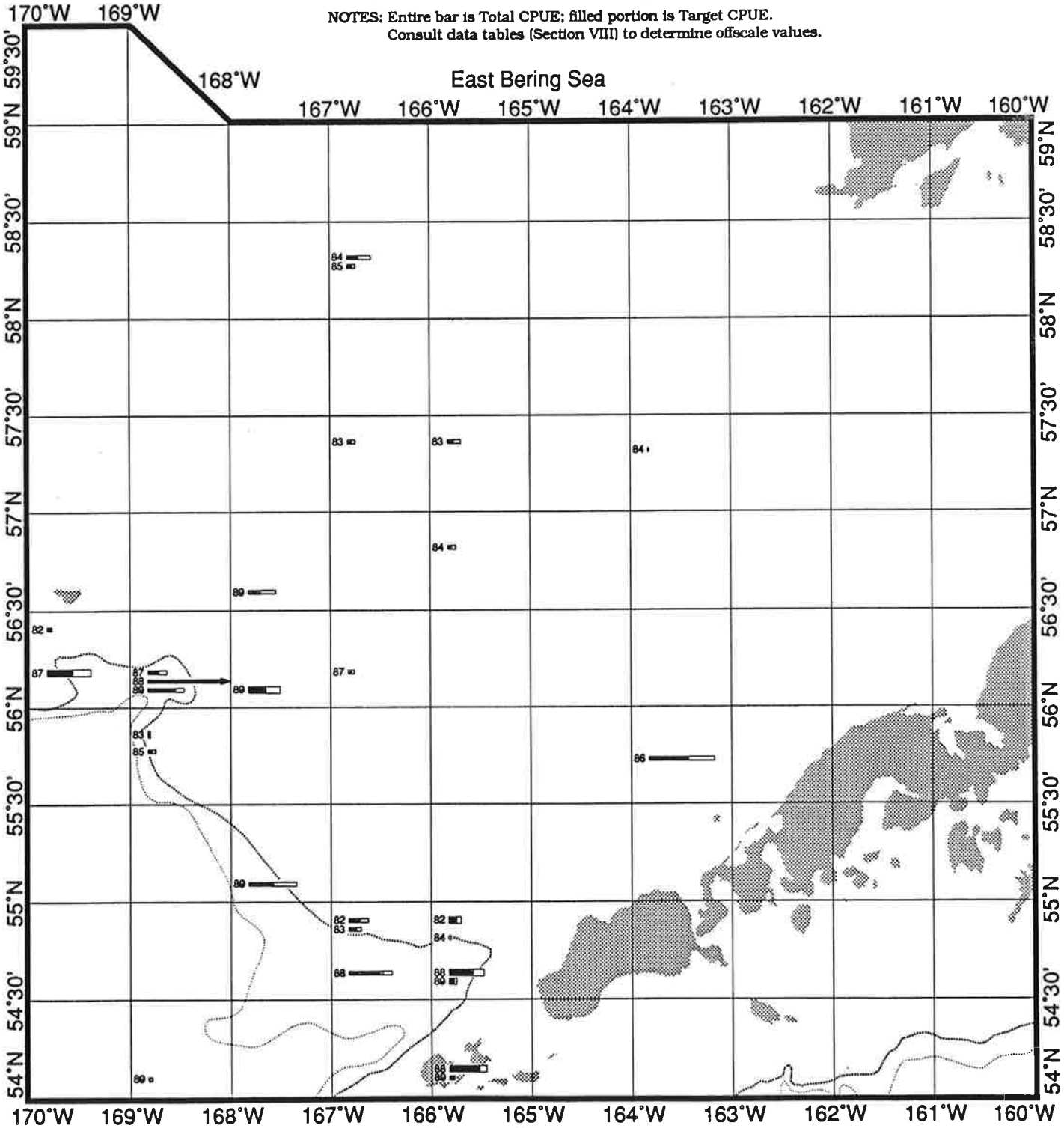
October
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

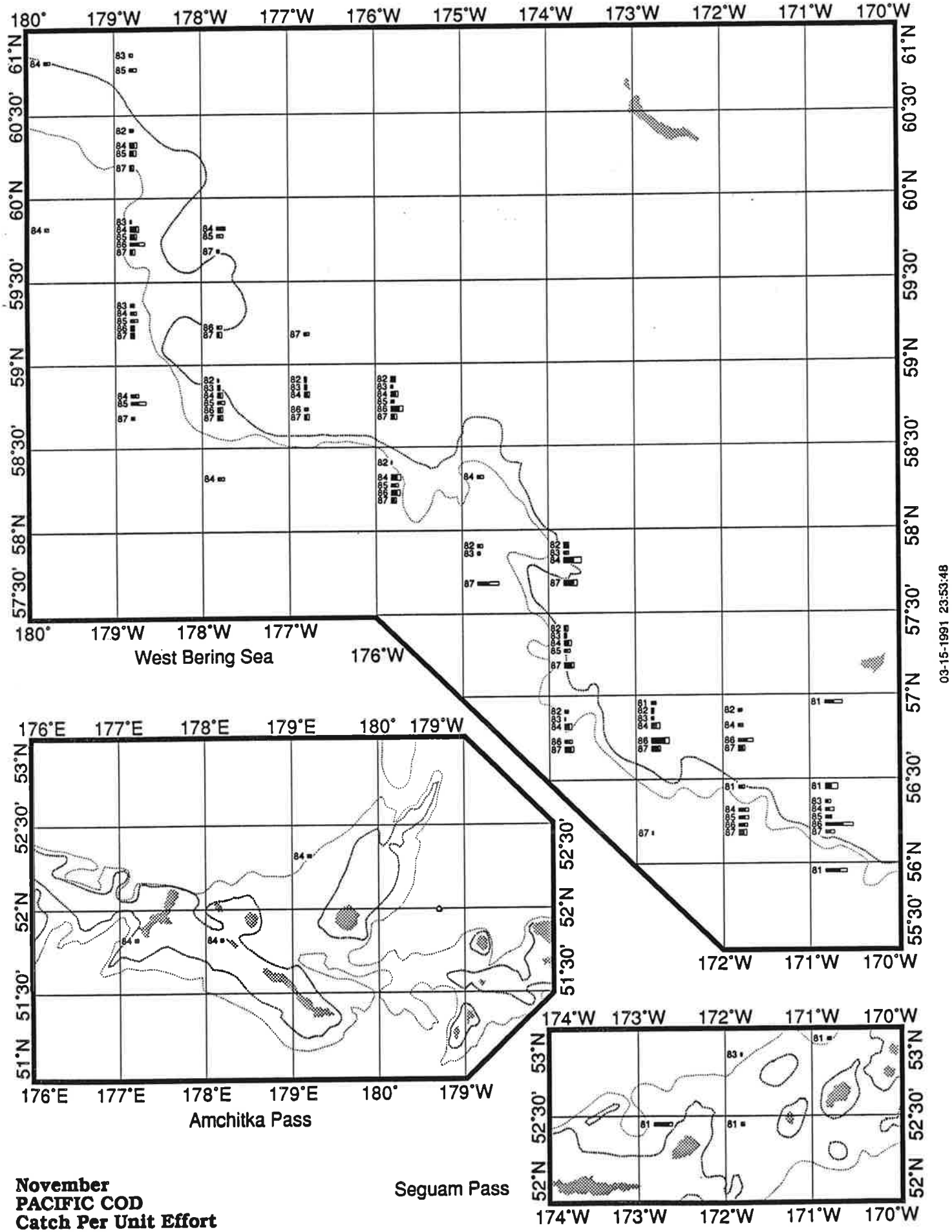
81 1981 Both CPUEs Onscale. Five or More Tows (Wide Bar).
83 1983 Both CPUEs Onscale. Less than Five Tows (Narrow Bar).
85 1985 Both CPUEs Offscale (Pointed End). Five or More Tows.
87 1987 Total CPUE Offscale; Target CPUE Onscale. Less than Five Tows.

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



03-15-1991 23:53:48

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



November
PACIFIC COD
Catch Per Unit Effort

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

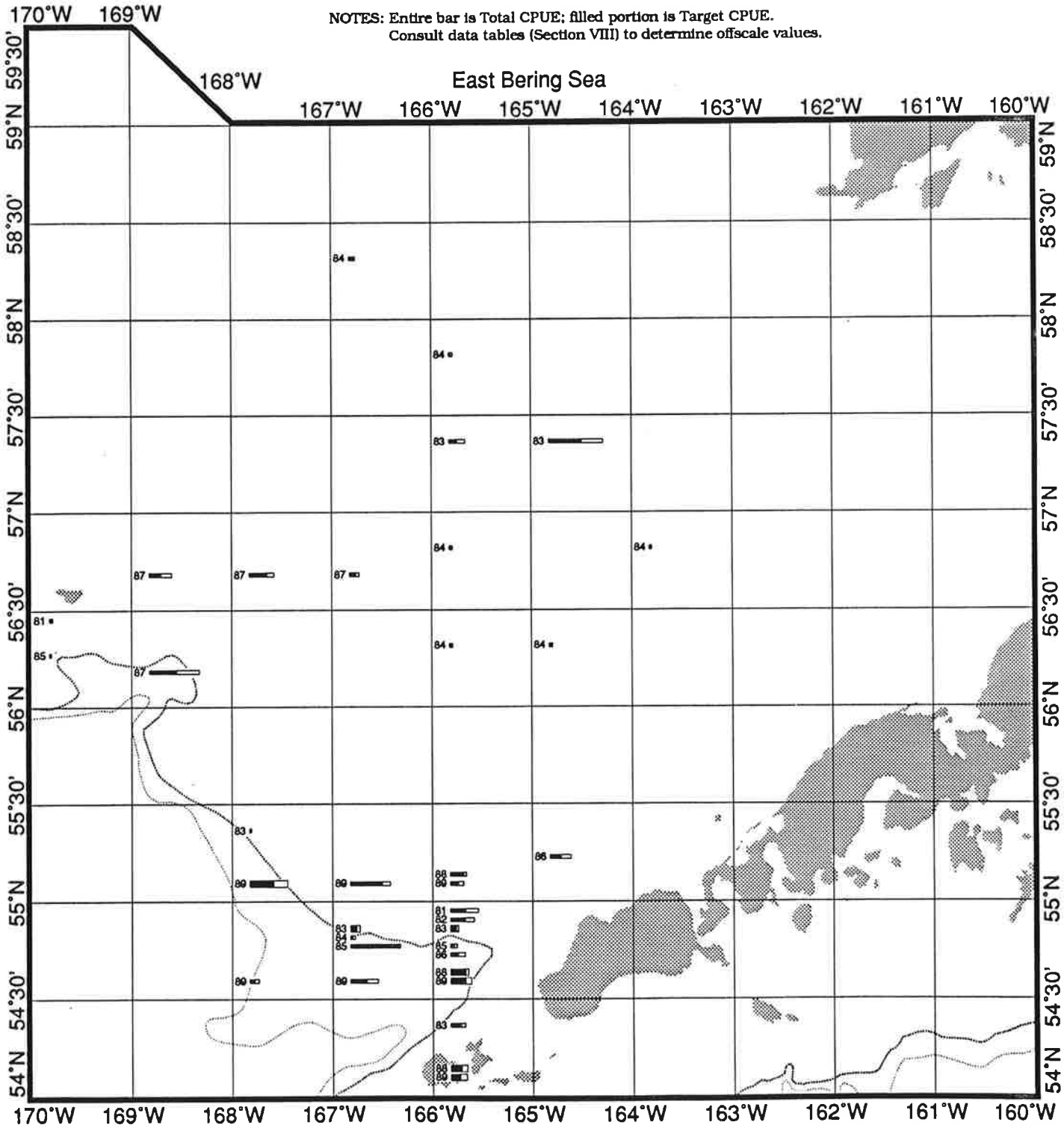
November
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

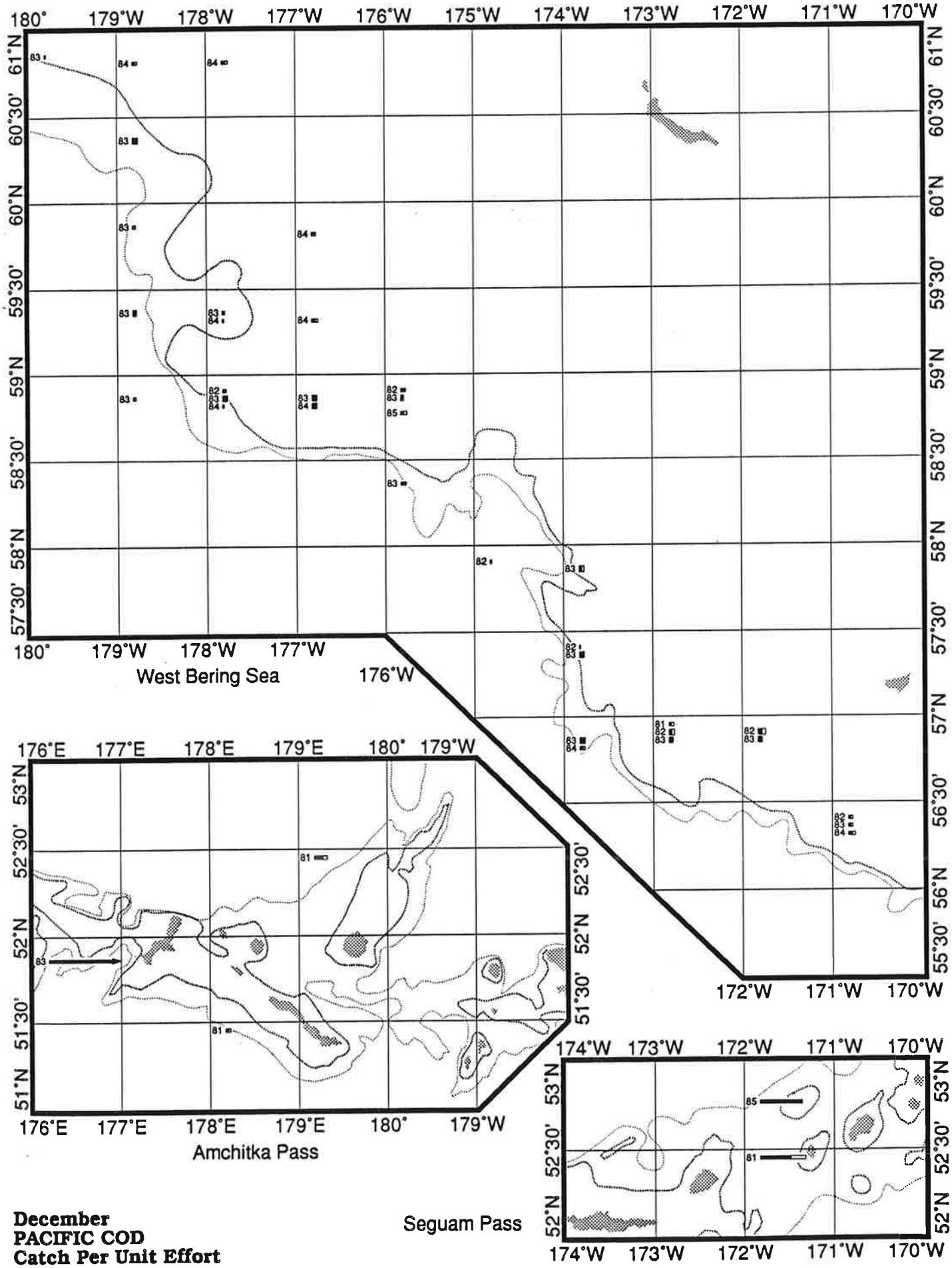
0 5 10 SCALE: Metric Tons Per Hour.

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.



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



December
PACIFIC COD
Catch Per Unit Effort

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

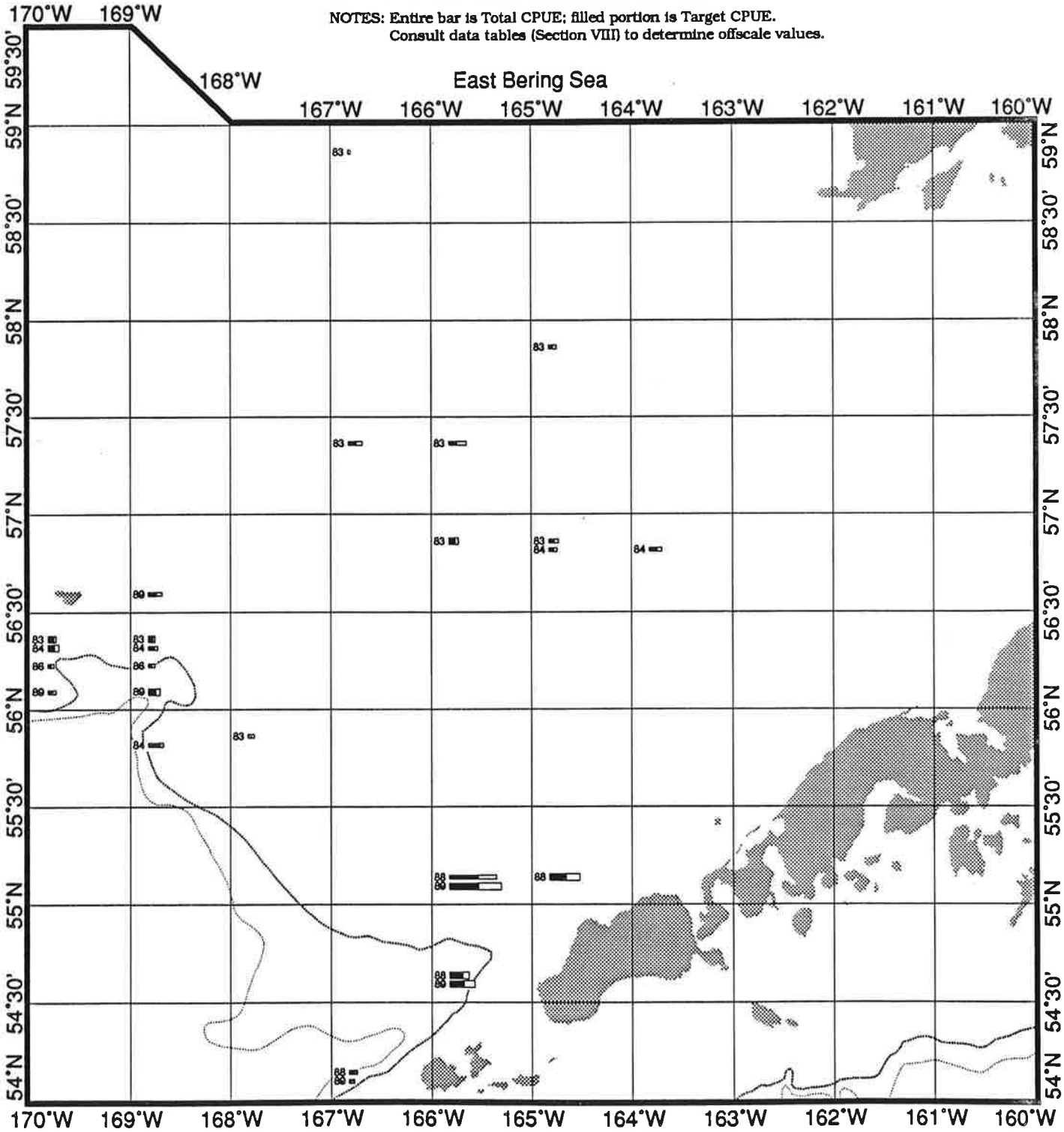
December
PACIFIC COD
Catch Per Unit Effort

200 Meter Contour.
1000 Meter Contour.

0 5 10 SCALE: Metric Tons Per Hour.

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.

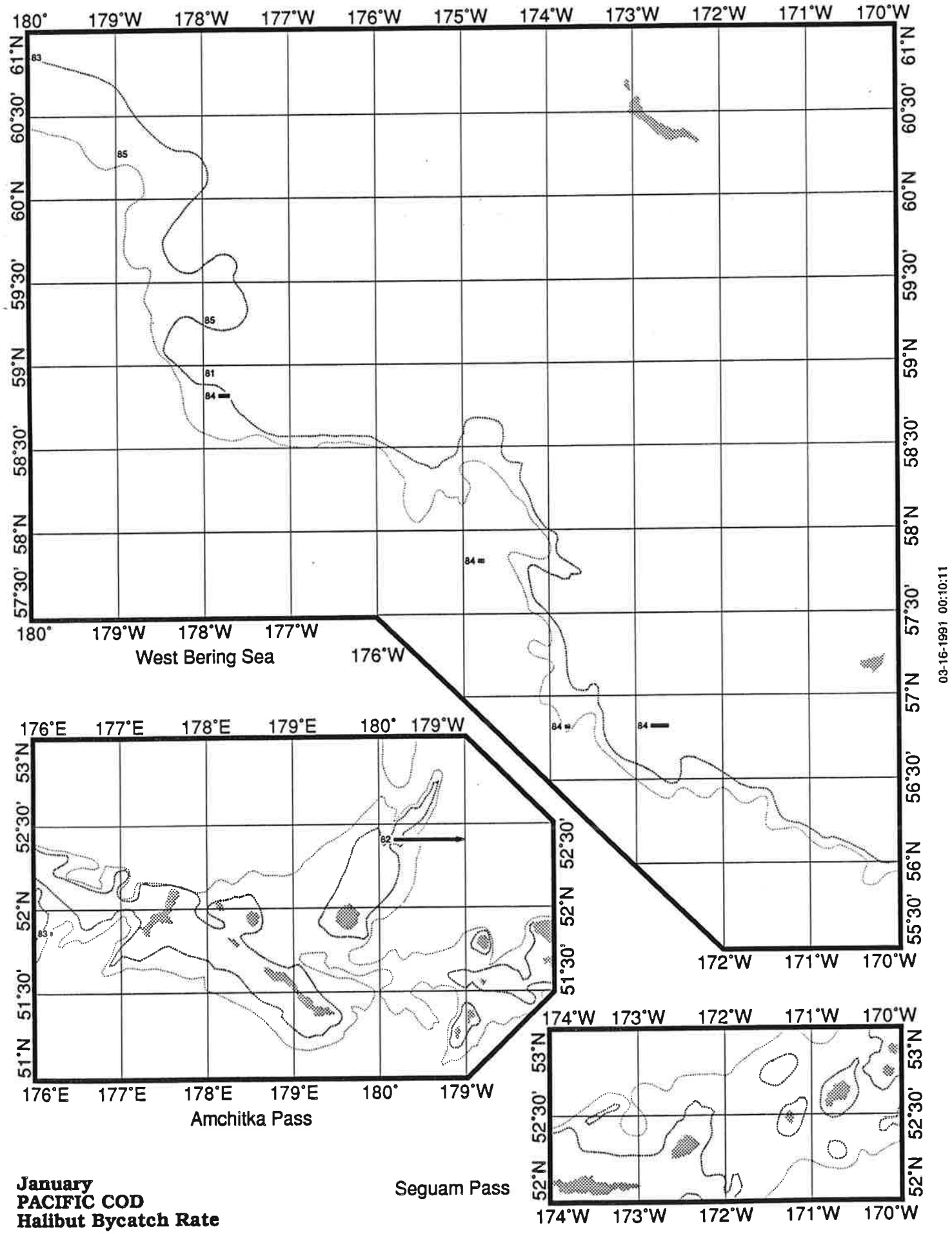
NOTES: Entire bar is Total CPUE; filled portion is Target CPUE.
Consult data tables (Section VIII) to determine offscale values.



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

SECTION IV

HALIBUT BYCATCH RATE CHARTS



03-16-1991 00:10:11

January
PACIFIC COD
Halibut Bycatch Rate

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

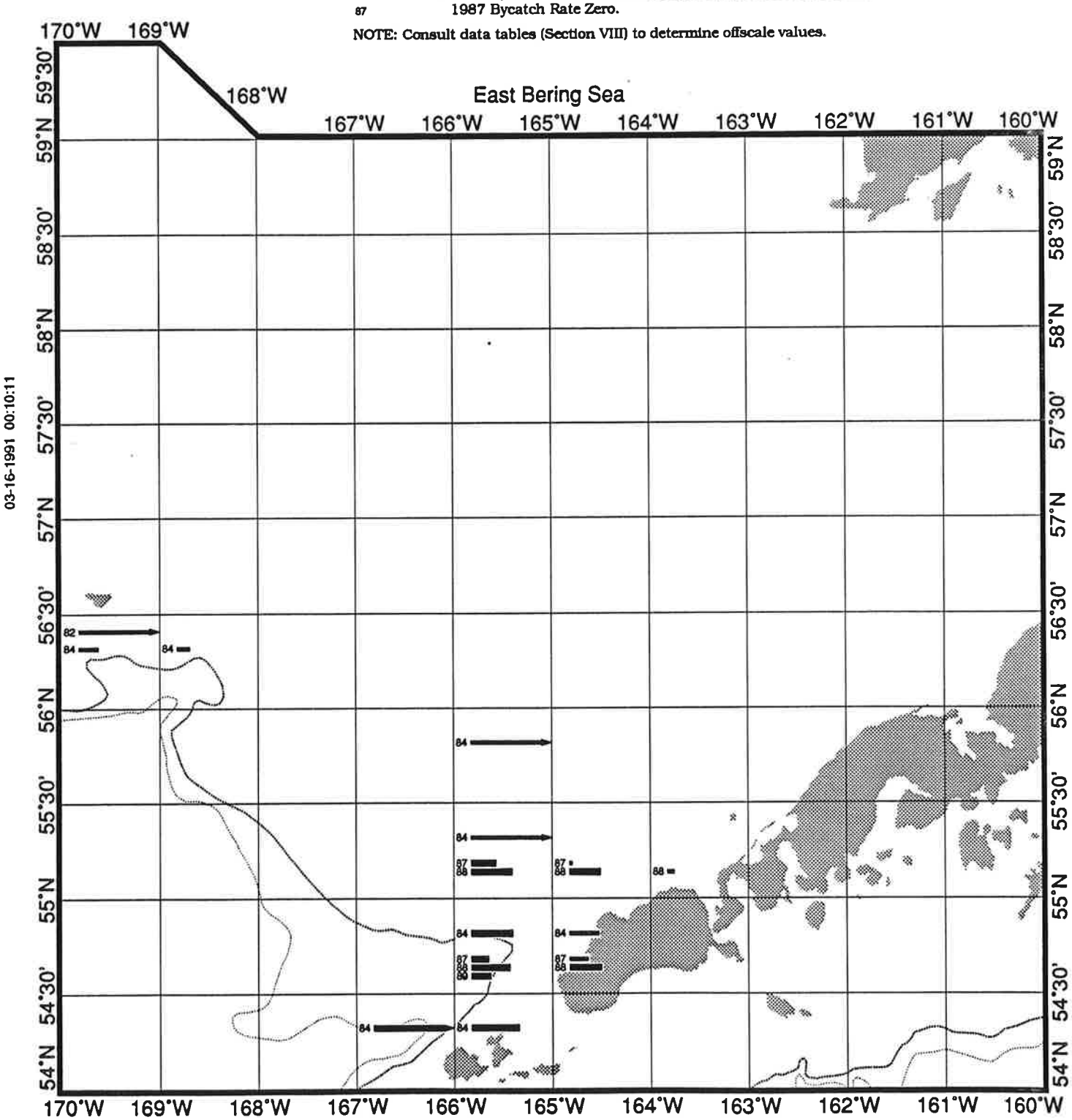
January
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

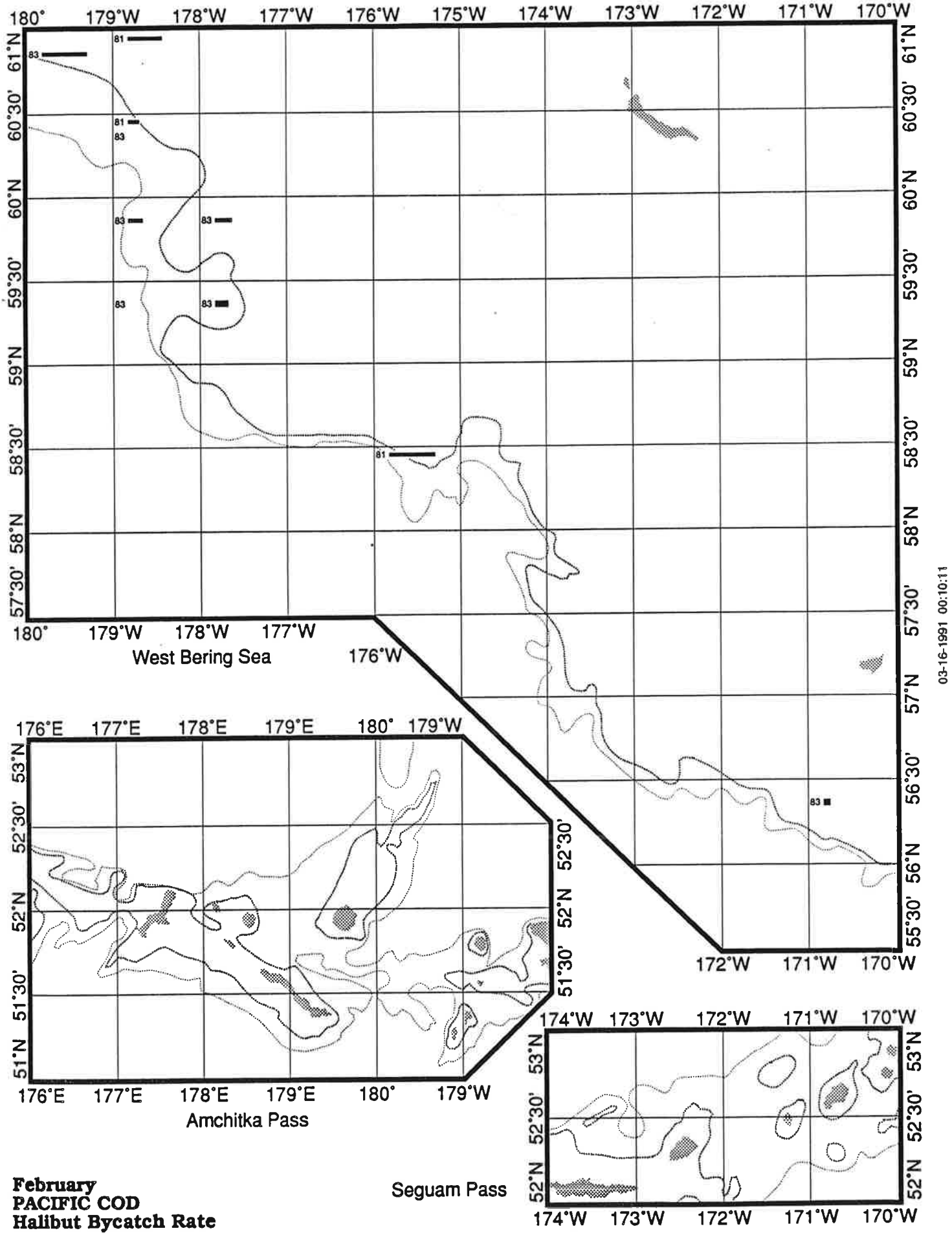
0 3 SCALE: Percentage by Weight.

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.



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



February
PACIFIC COD
Halibut Bycatch Rate

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

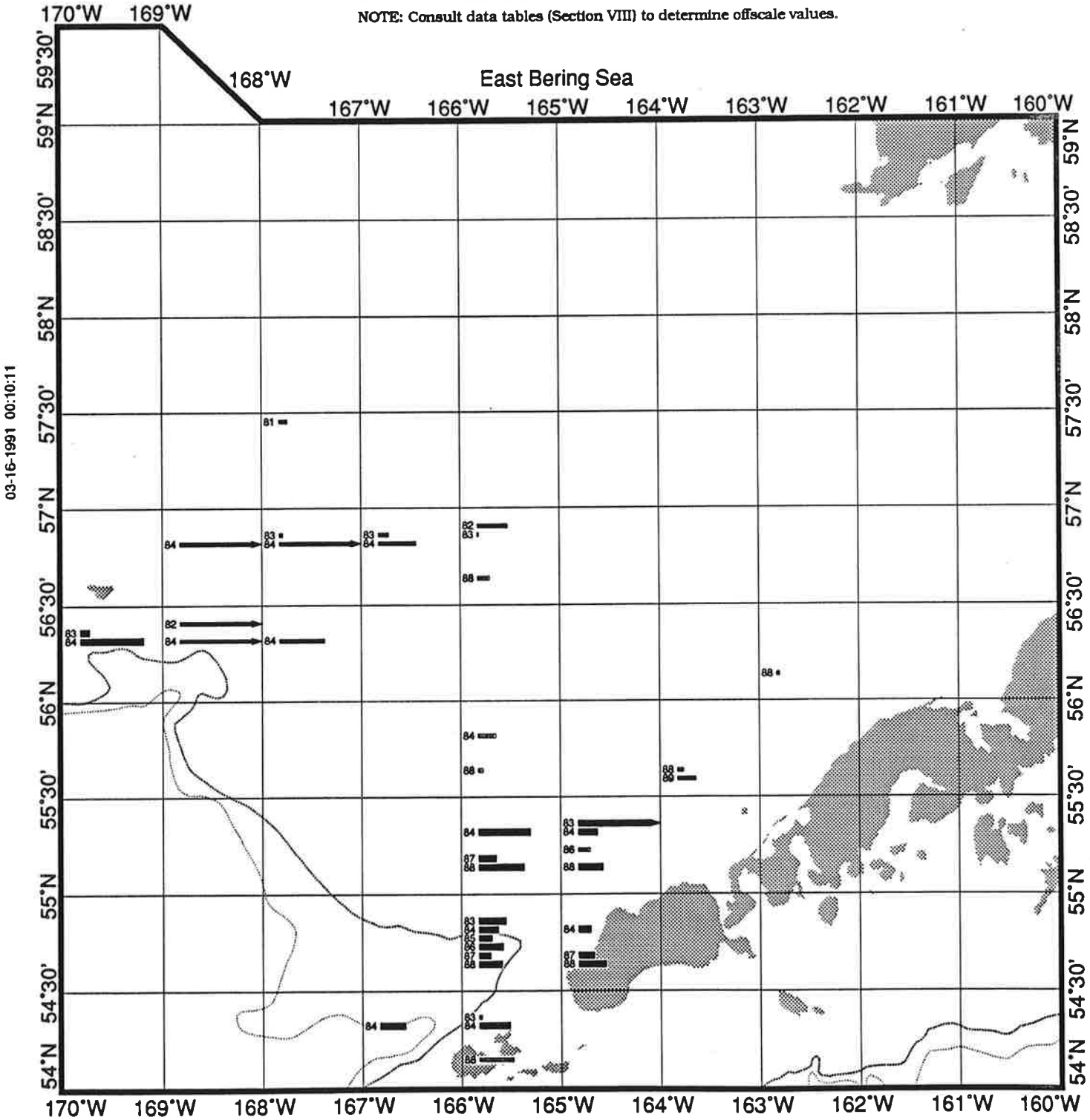
February
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

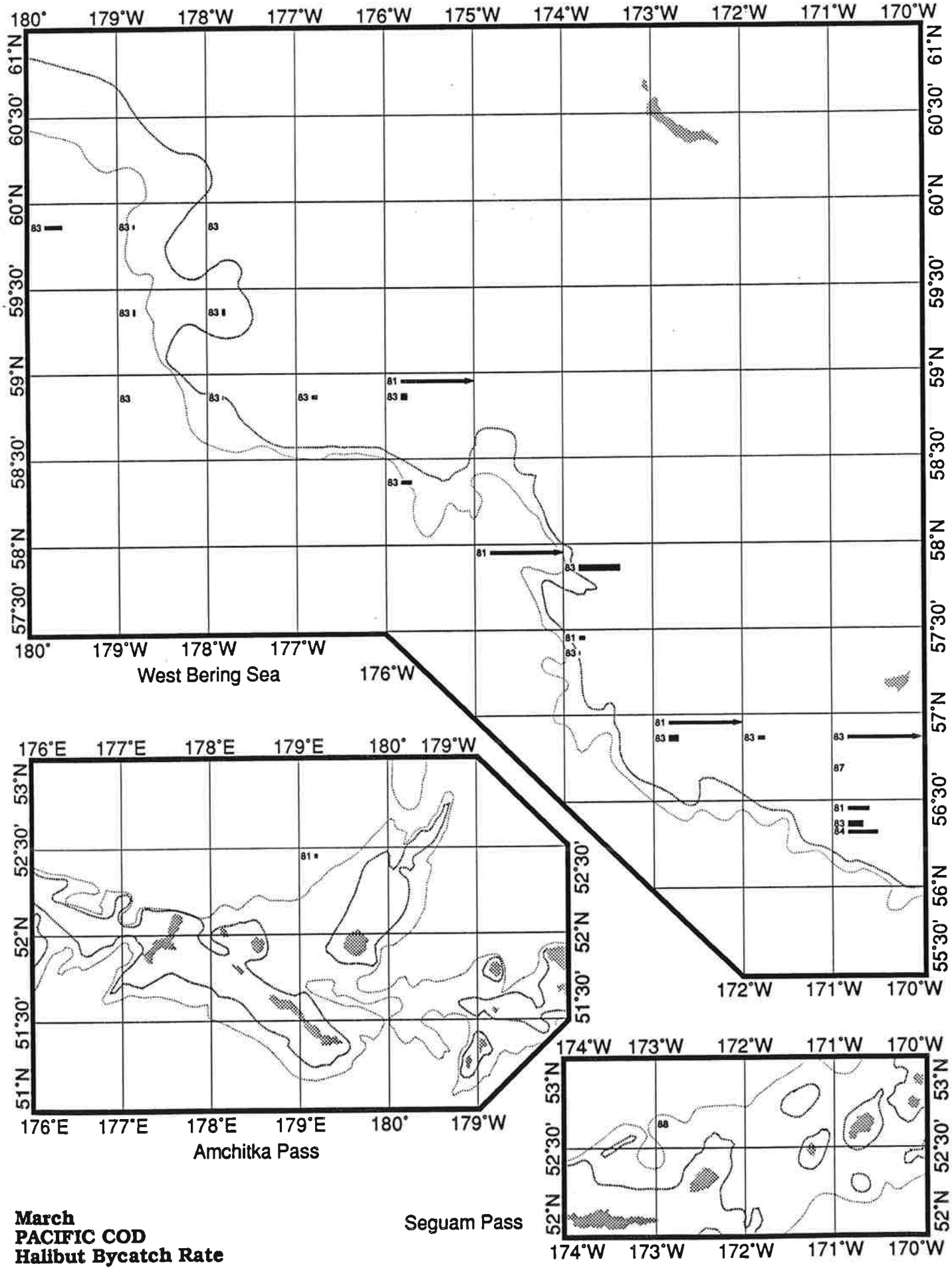
0 3 SCALE: Percentage by Weight.

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.



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



March
PACIFIC COD
Halibut Bycatch Rate

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

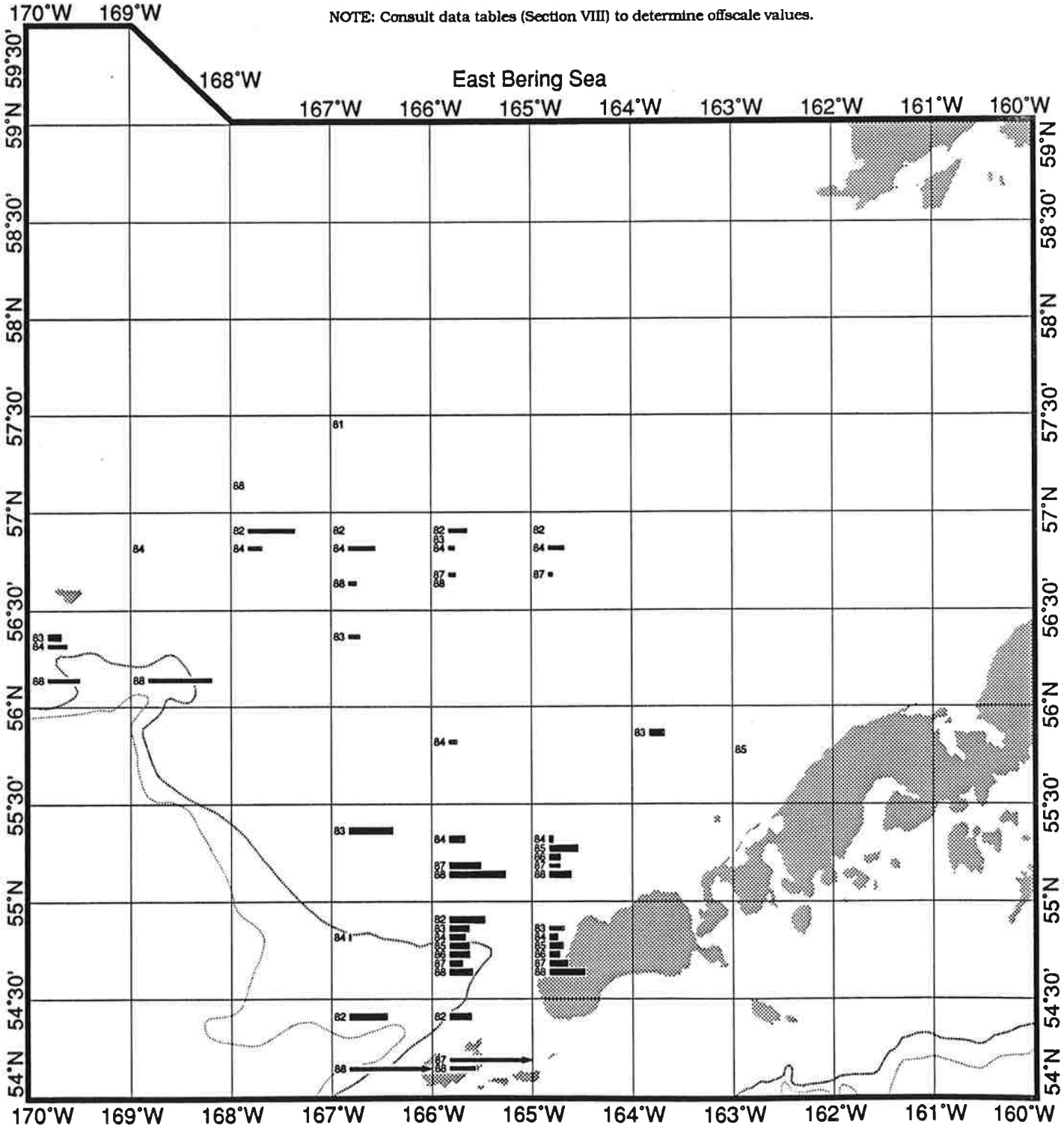
March
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

0 3 SCALE: Percentage by Weight.

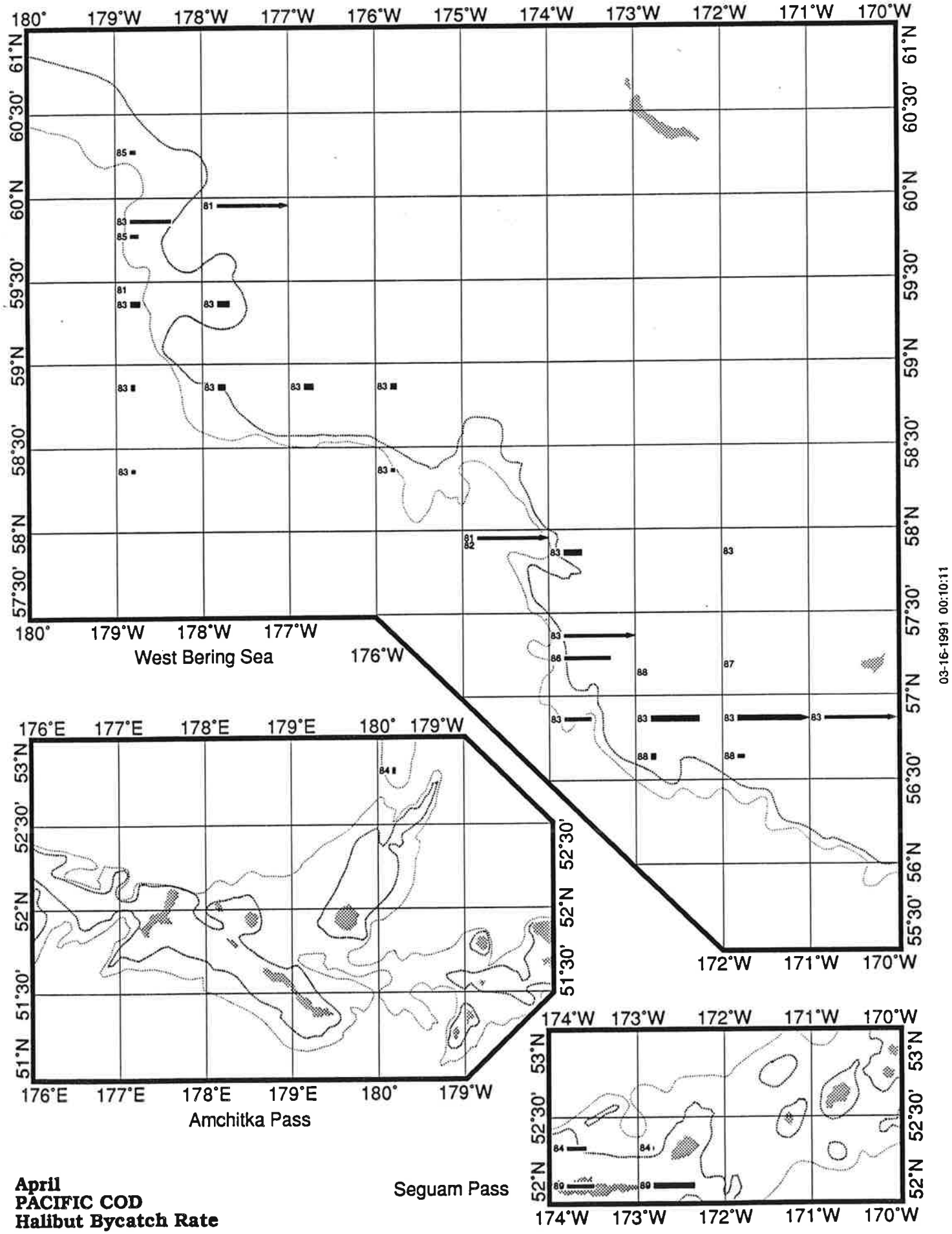
81 1981 Bycatch Rate Onscale. Five or More Tows (Wide Bar).
83 1983 Bycatch Rate Onscale. Less than Five Tows (Narrow Bar).
85 1985 Bycatch Rate Offscale (Pointed End). Five or More Tows.
87 1987 Bycatch Rate Zero.

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



03-16-1991 00:10:11

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



April
PACIFIC COD
Halibut Bycatch Rate

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

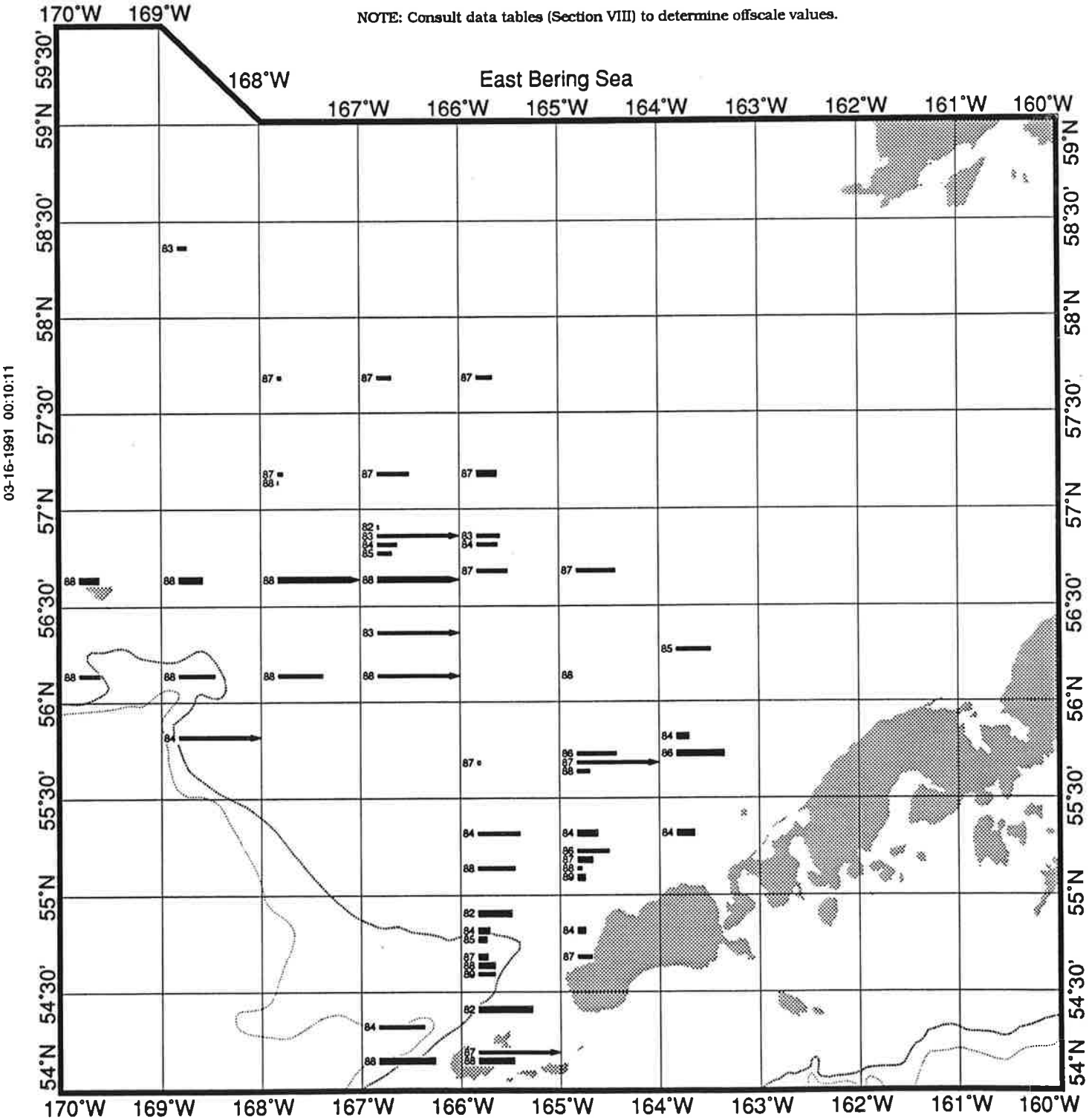
April
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

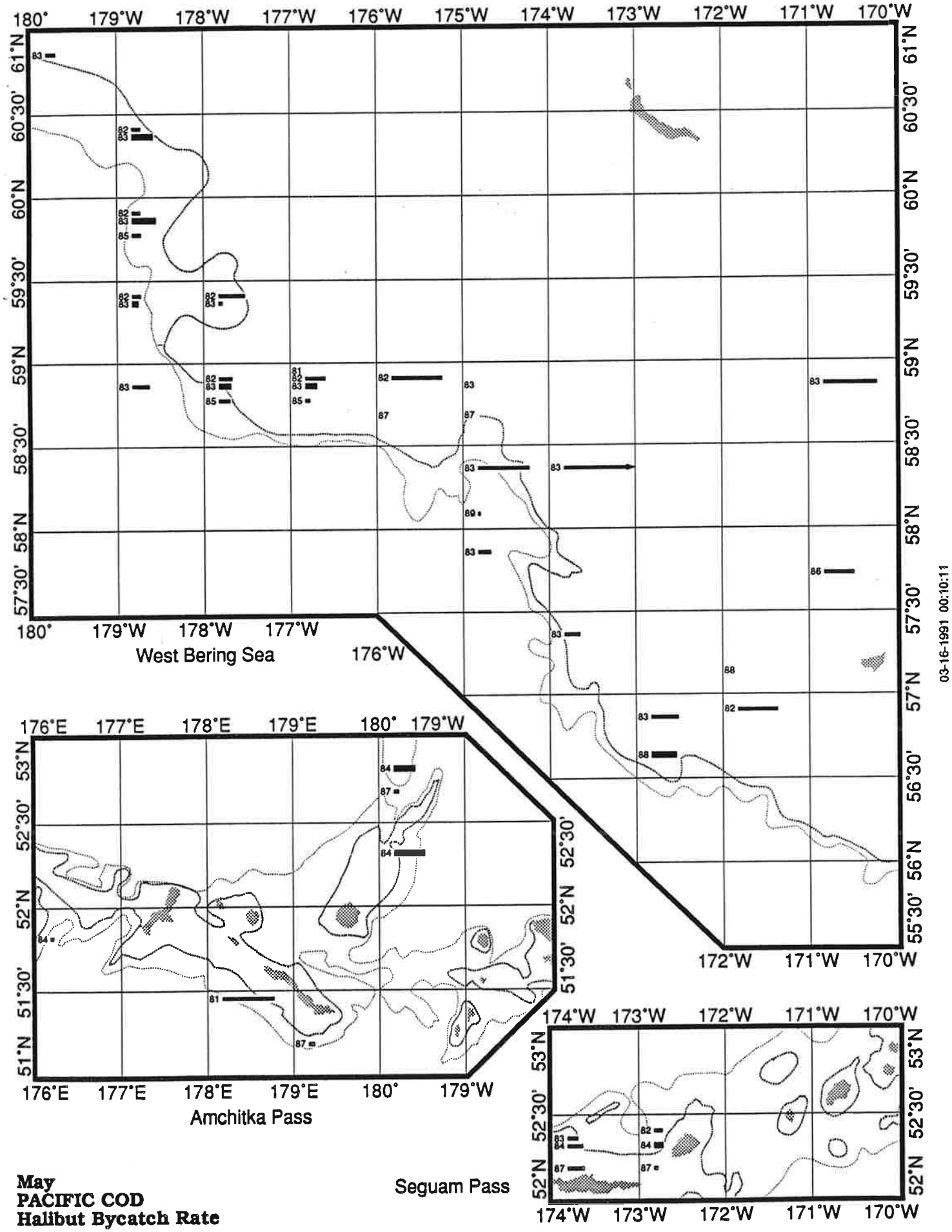
0 3 SCALE: Percentage by Weight.

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.



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



May
PACIFIC COD
Halibut Bycatch Rate

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

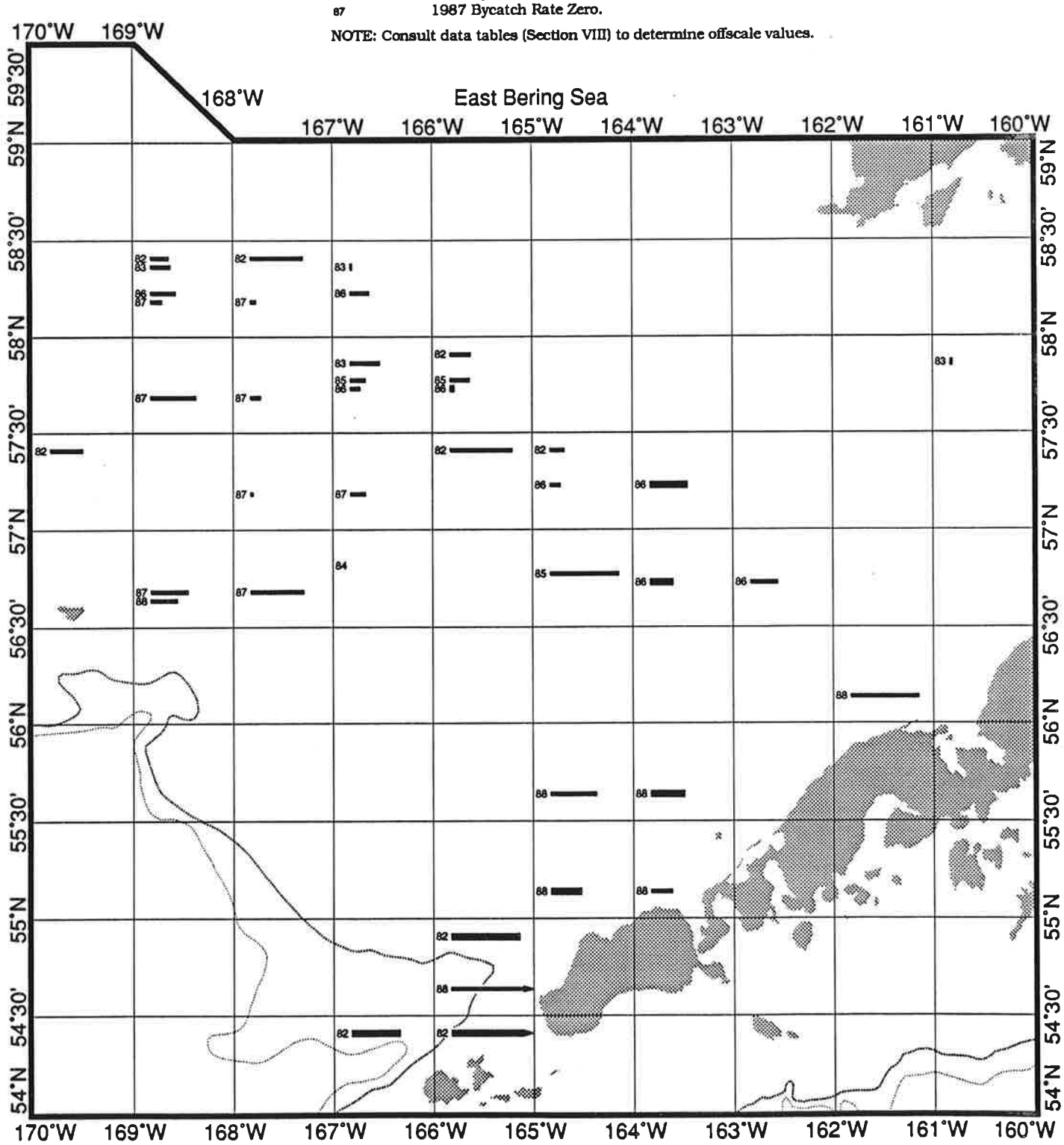
May
PACIFIC COD
Halibut Bycatch Rate

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.



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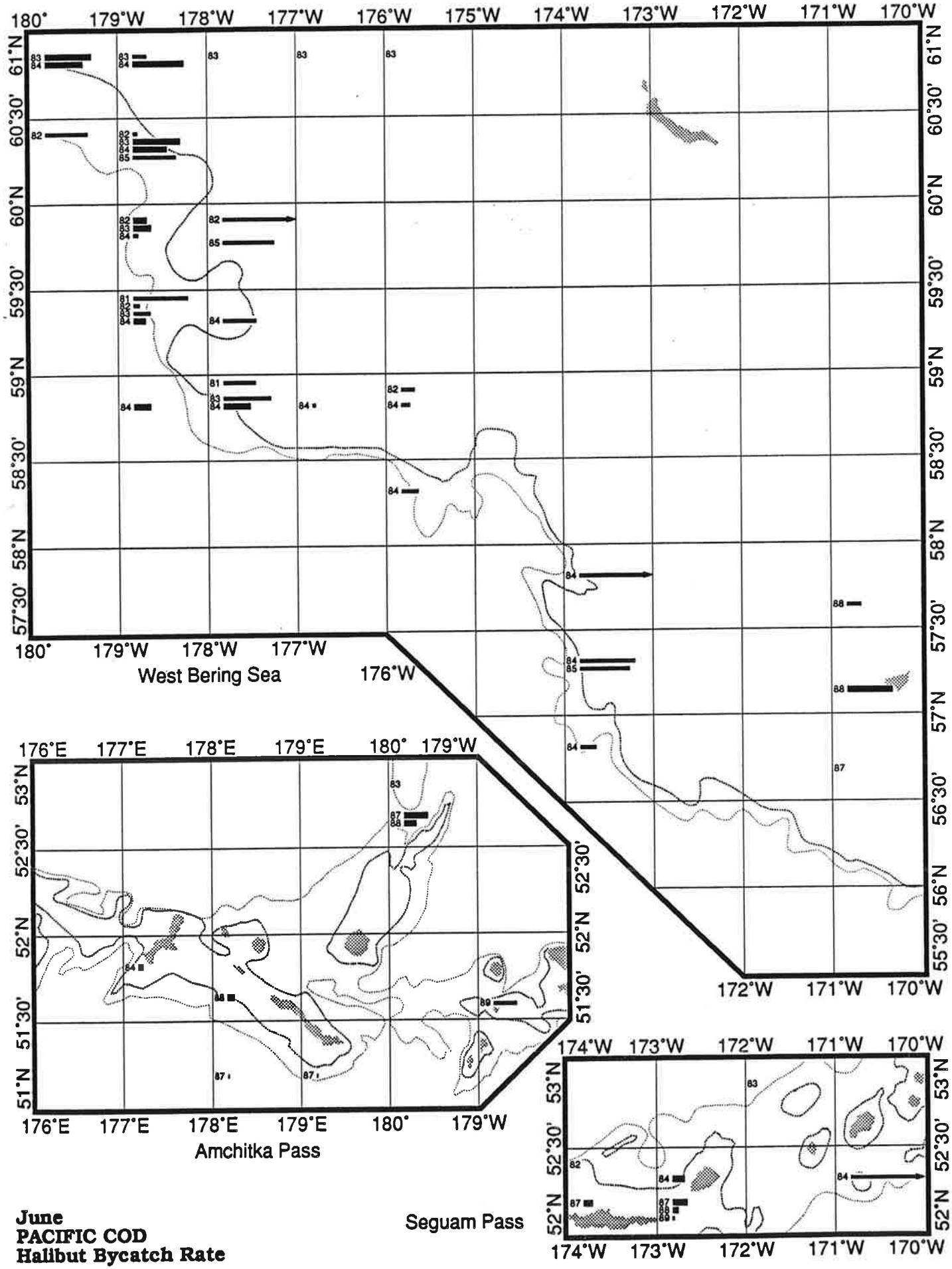
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



June
PACIFIC COD
Halibut Bycatch Rate

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

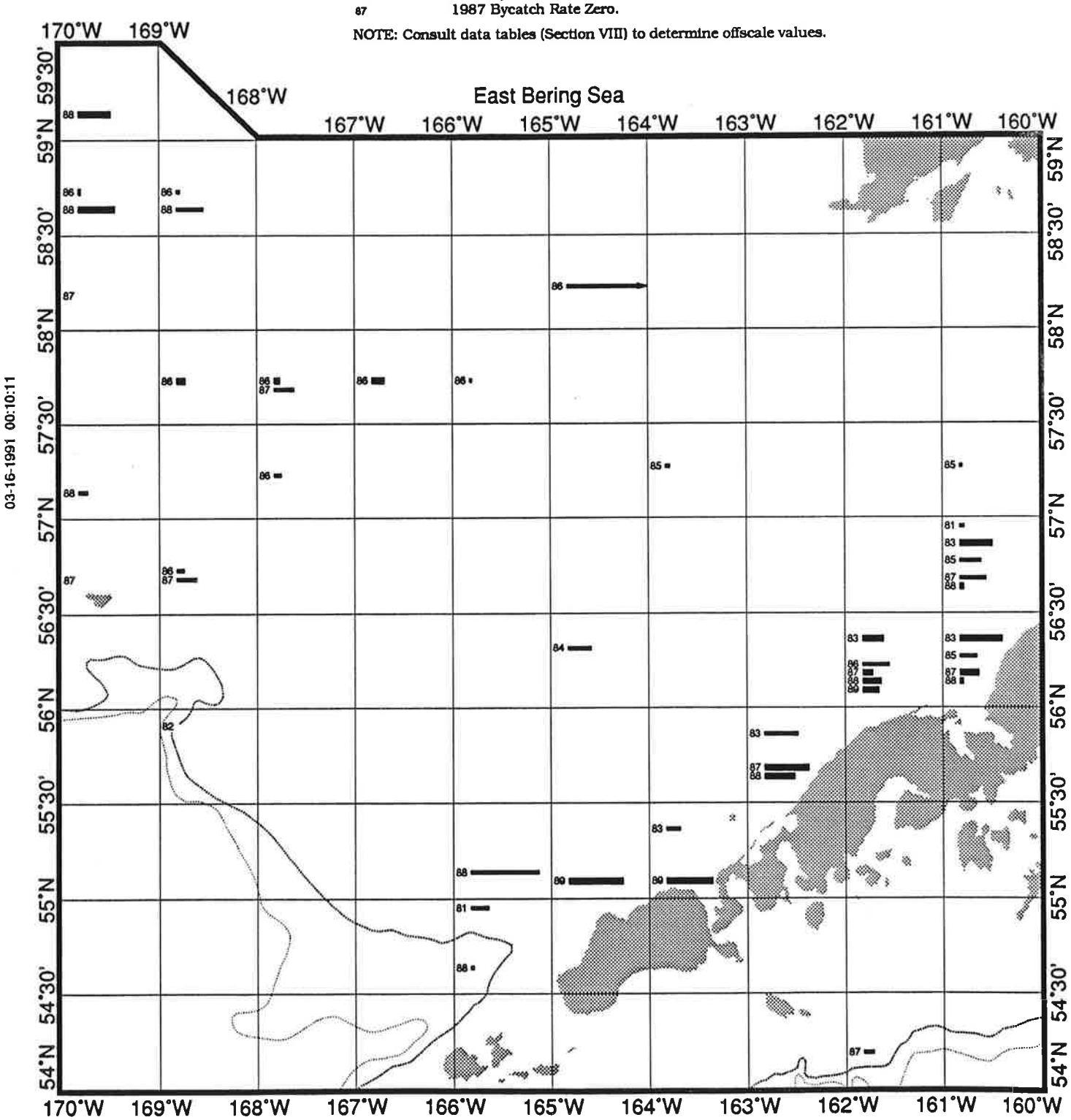
June
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

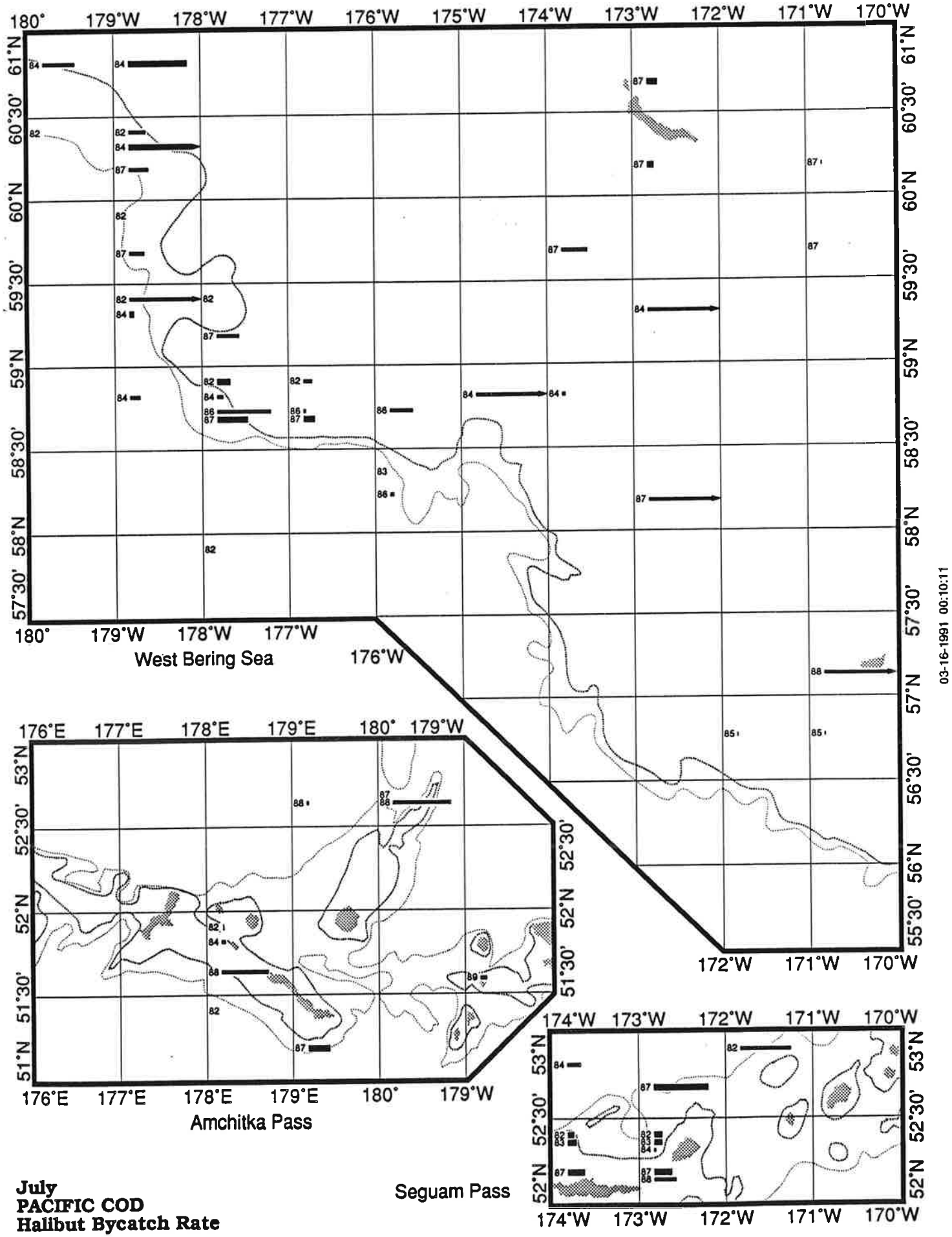
0 3 SCALE: Percentage by Weight.

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.



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



July
PACIFIC COD
Halibut Bycatch Rate

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

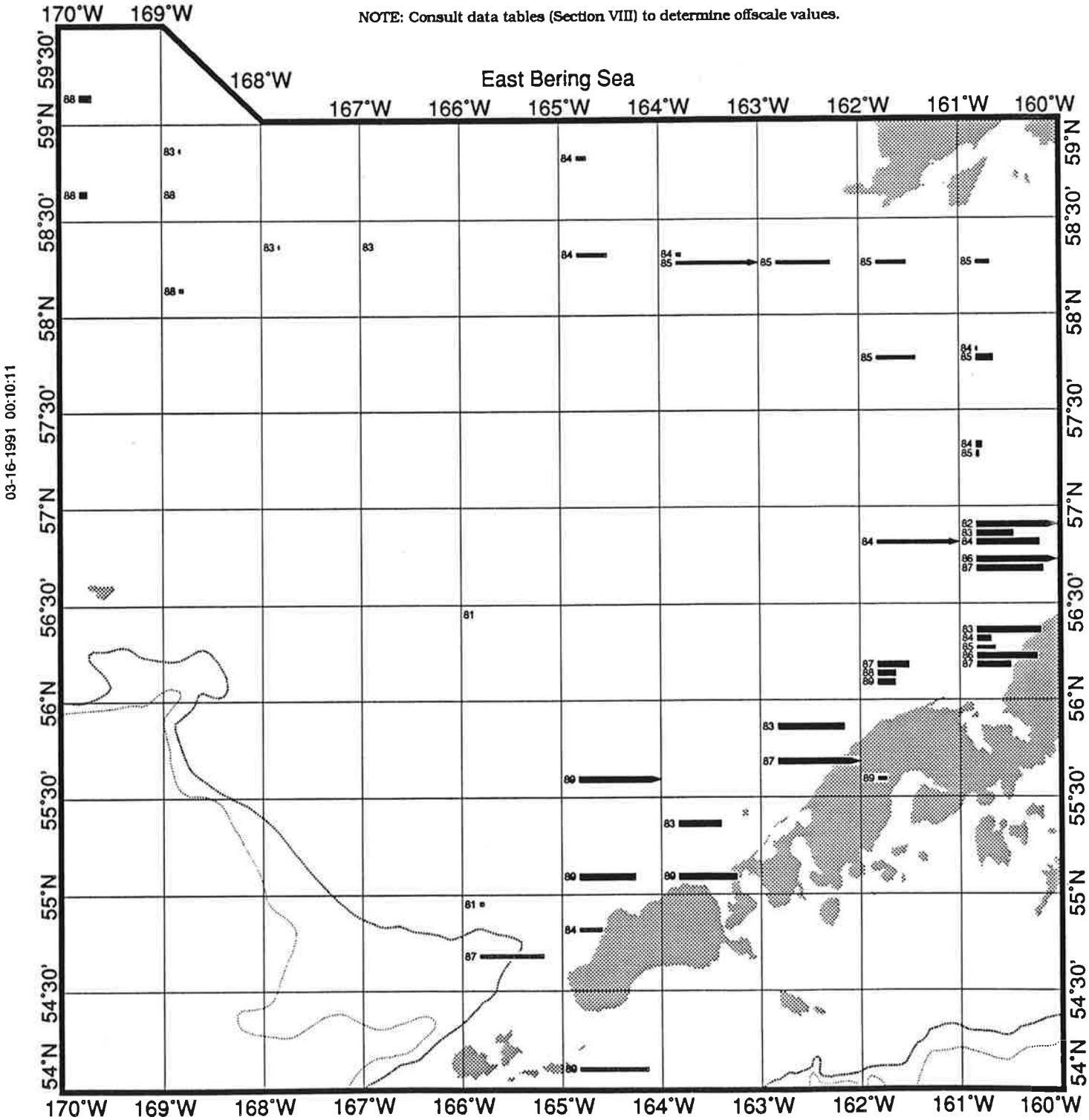
July
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

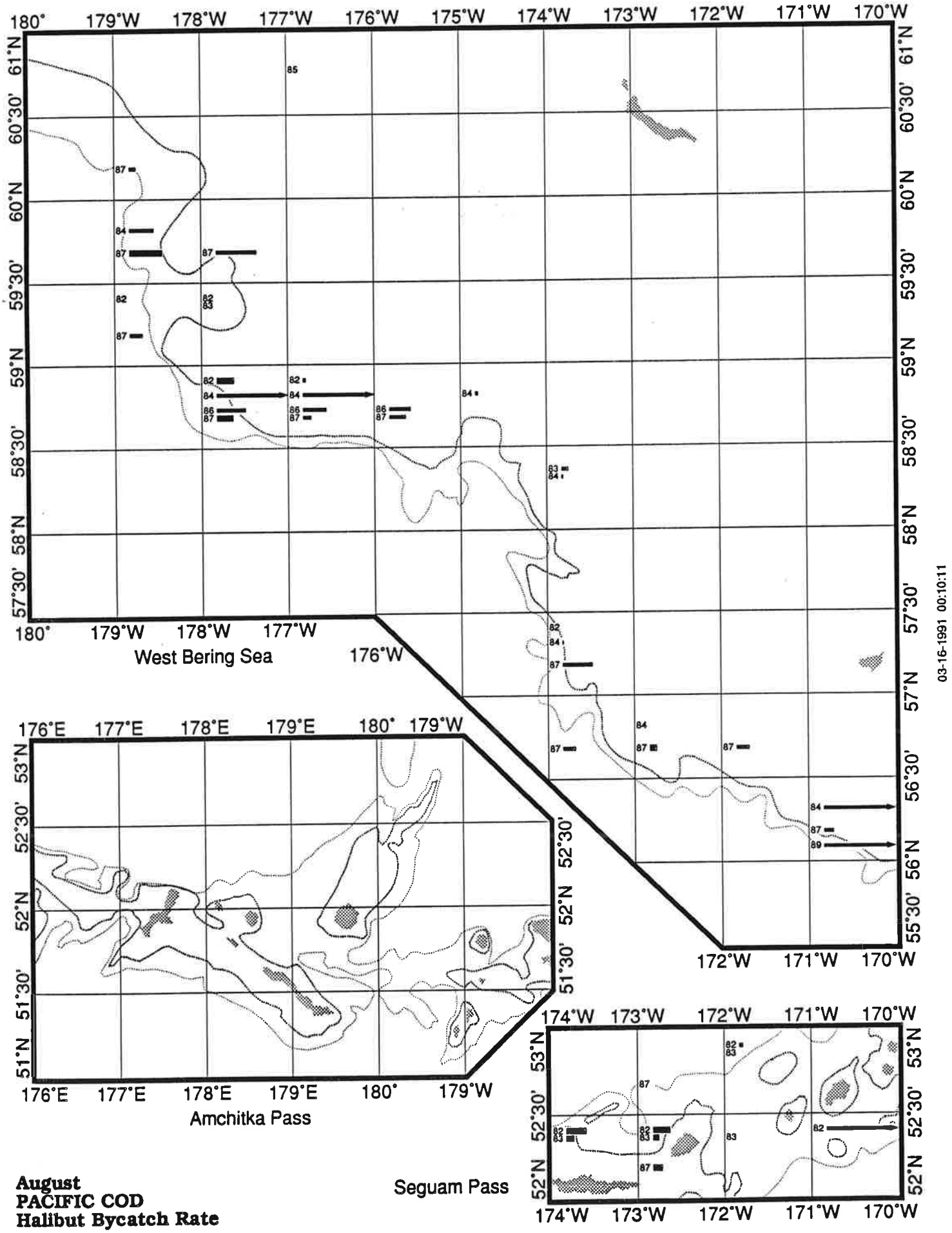
0 3 SCALE: Percentage by Weight.

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.



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



August
PACIFIC COD
Halibut Bycatch Rate

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

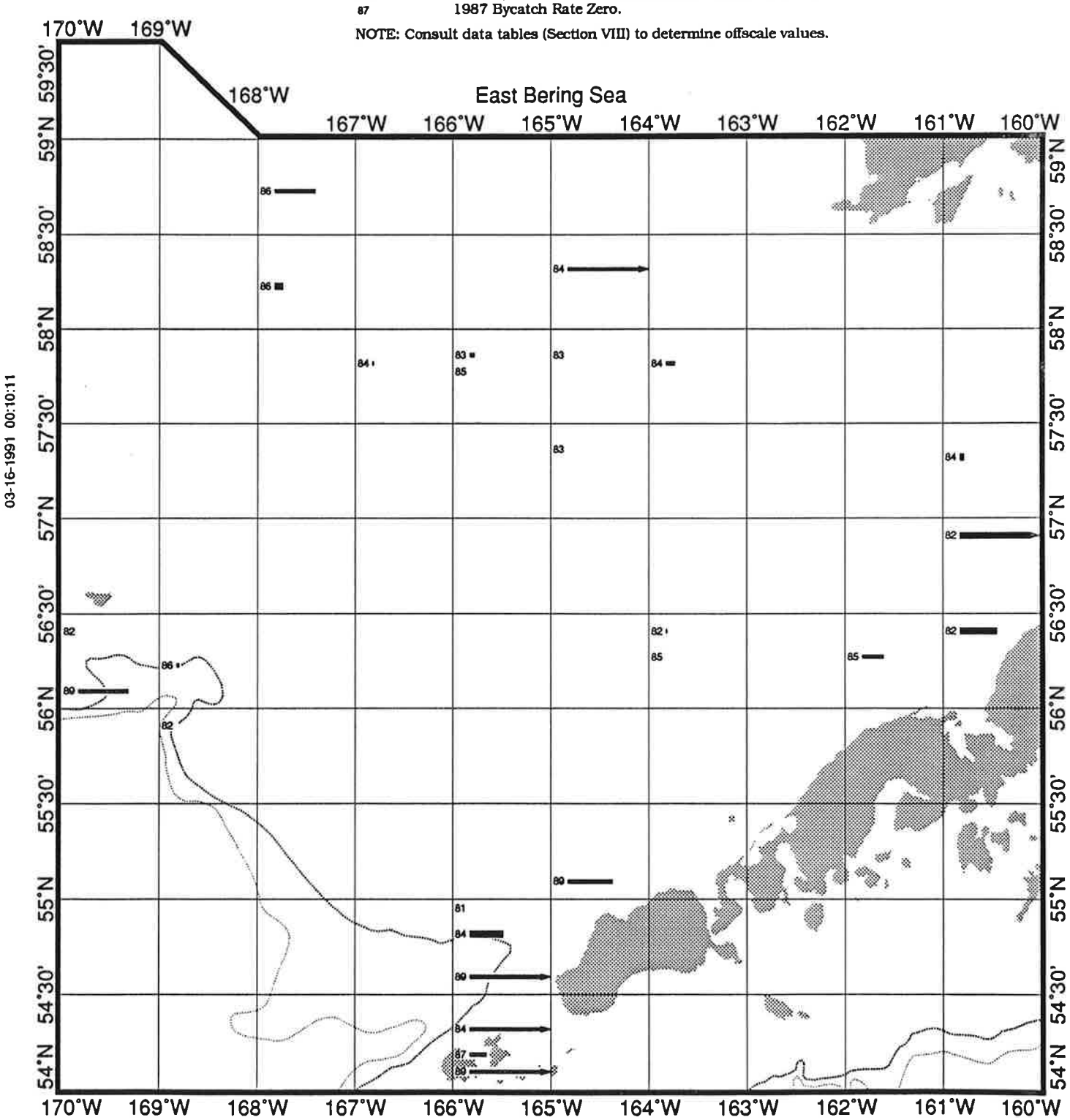
August
PACIFIC COD
Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

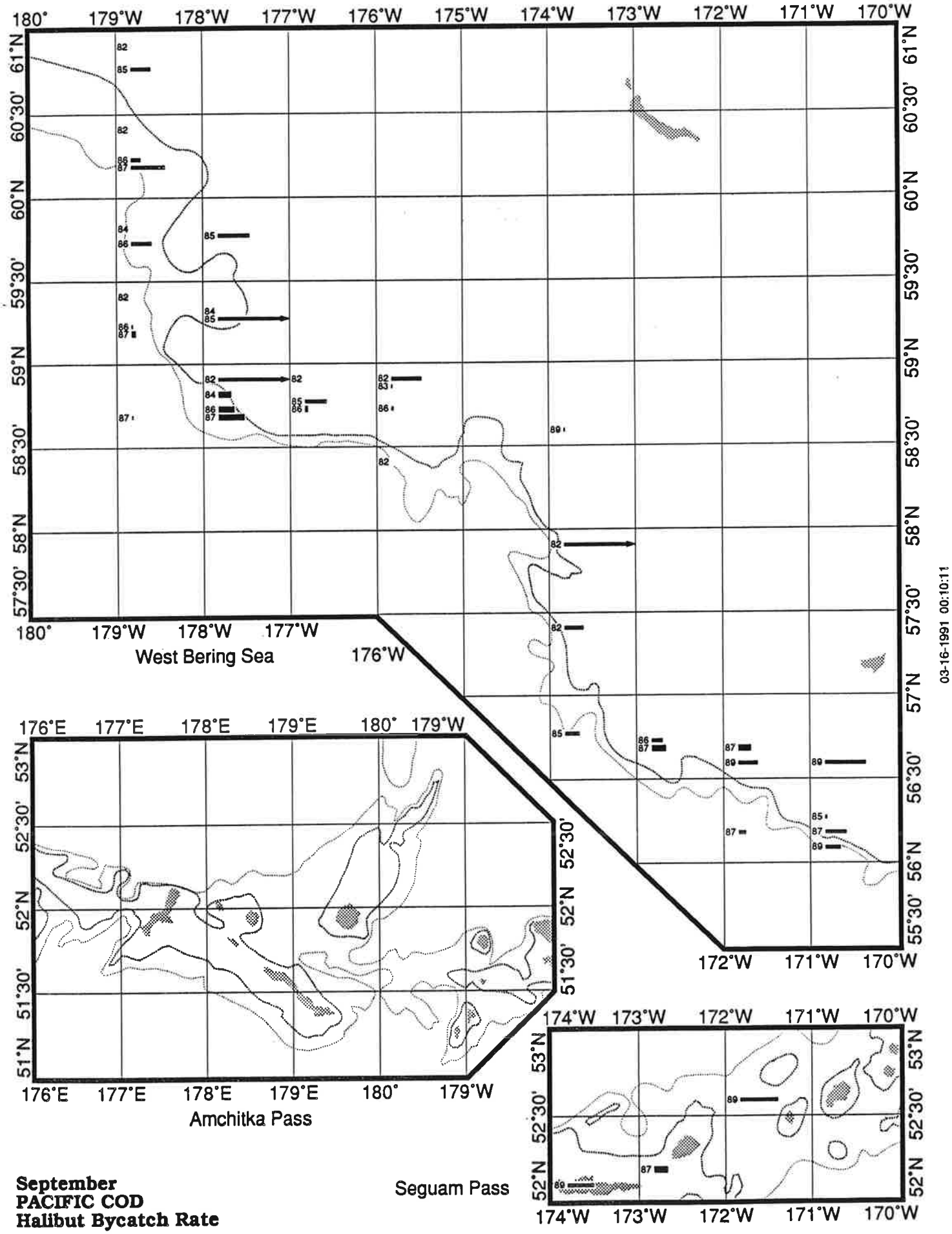
0 3 SCALE: Percentage by Weight.

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.



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



September
PACIFIC COD
Halibut Bycatch Rate

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

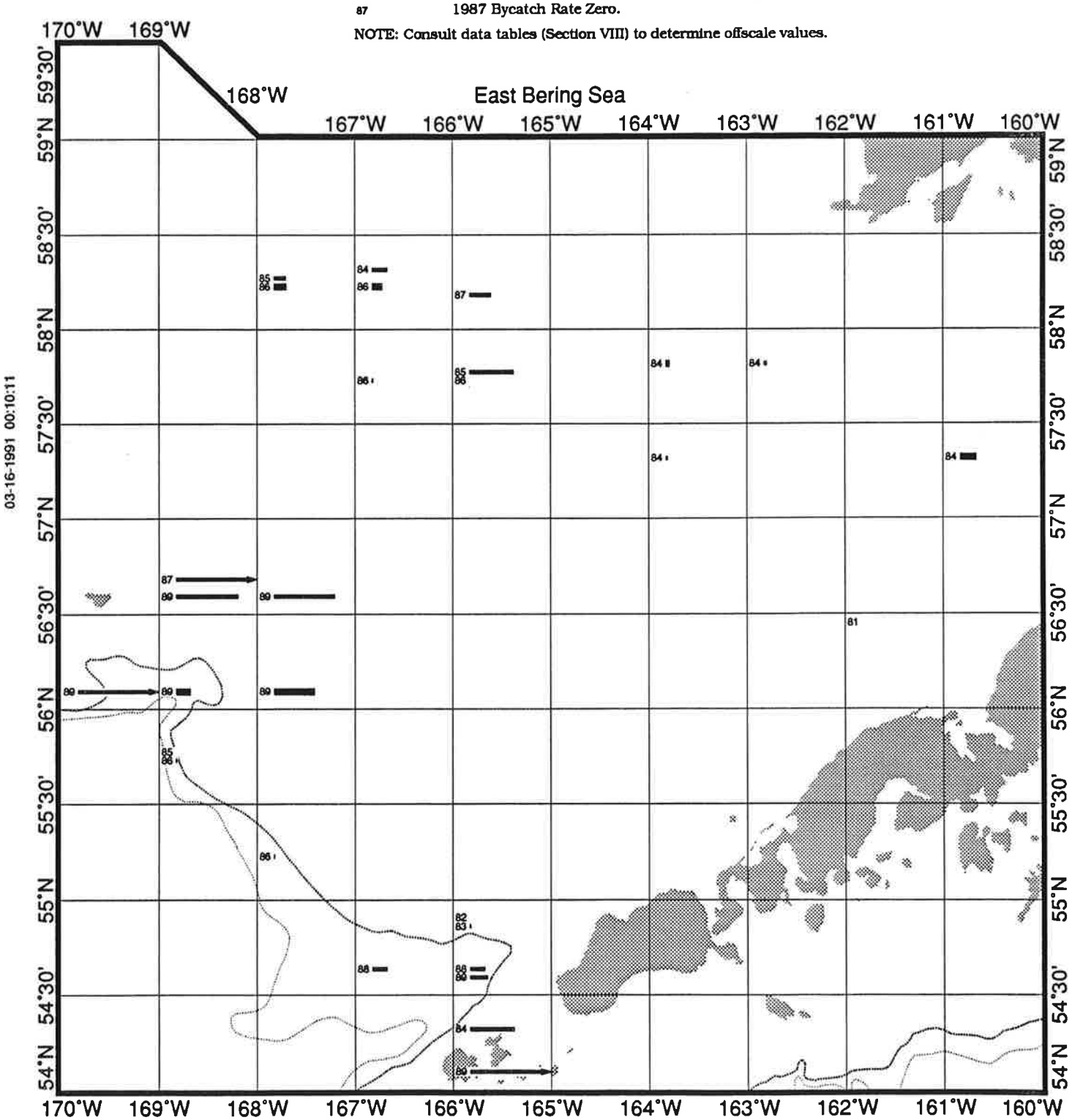
September PACIFIC COD Halibut Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

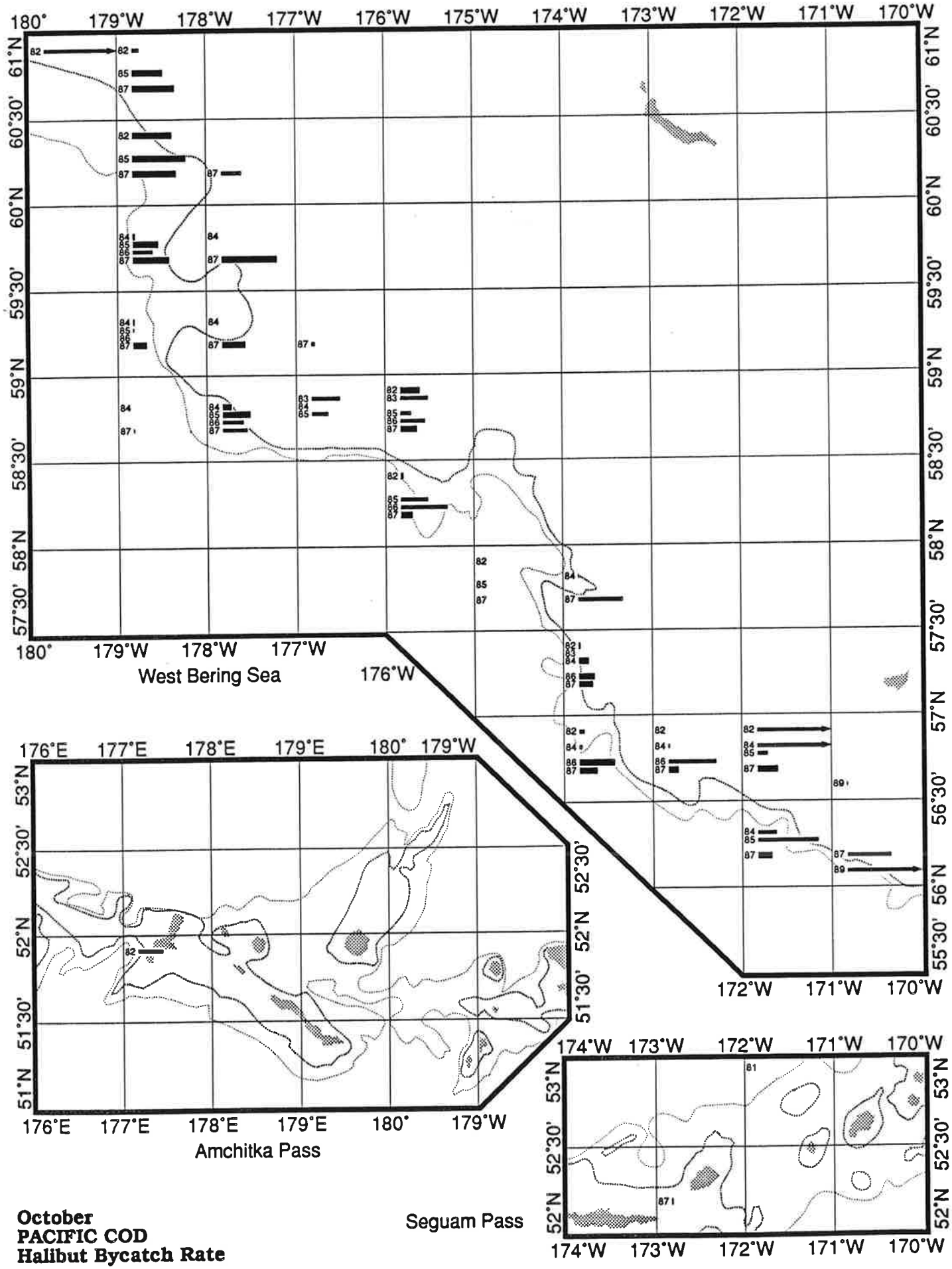
0 — 3 SCALE: Percentage by Weight.

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.



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



October
PACIFIC COD
Halibut Bycatch Rate

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

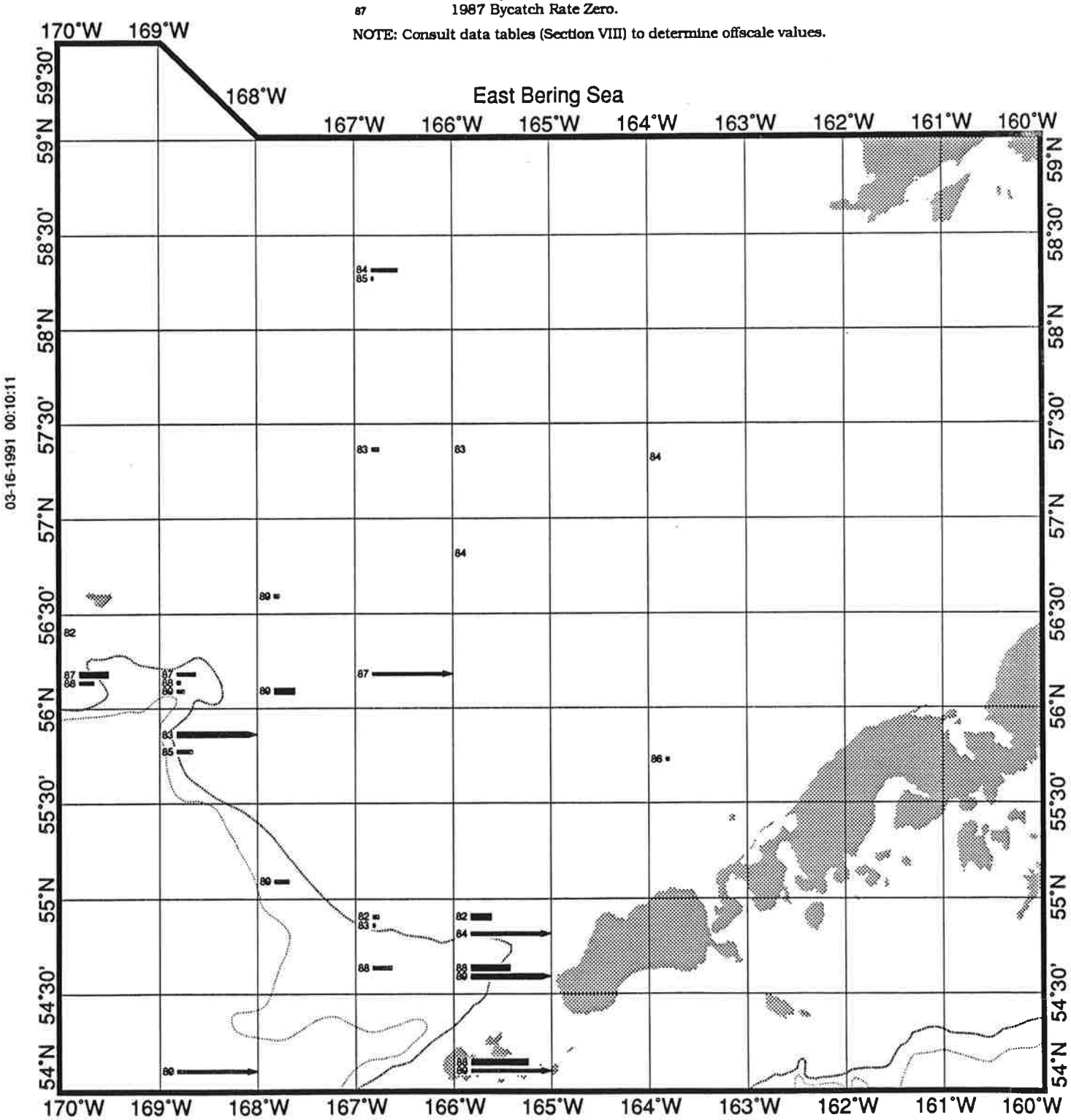
October
PACIFIC COD
Halibut Bycatch Rate

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.



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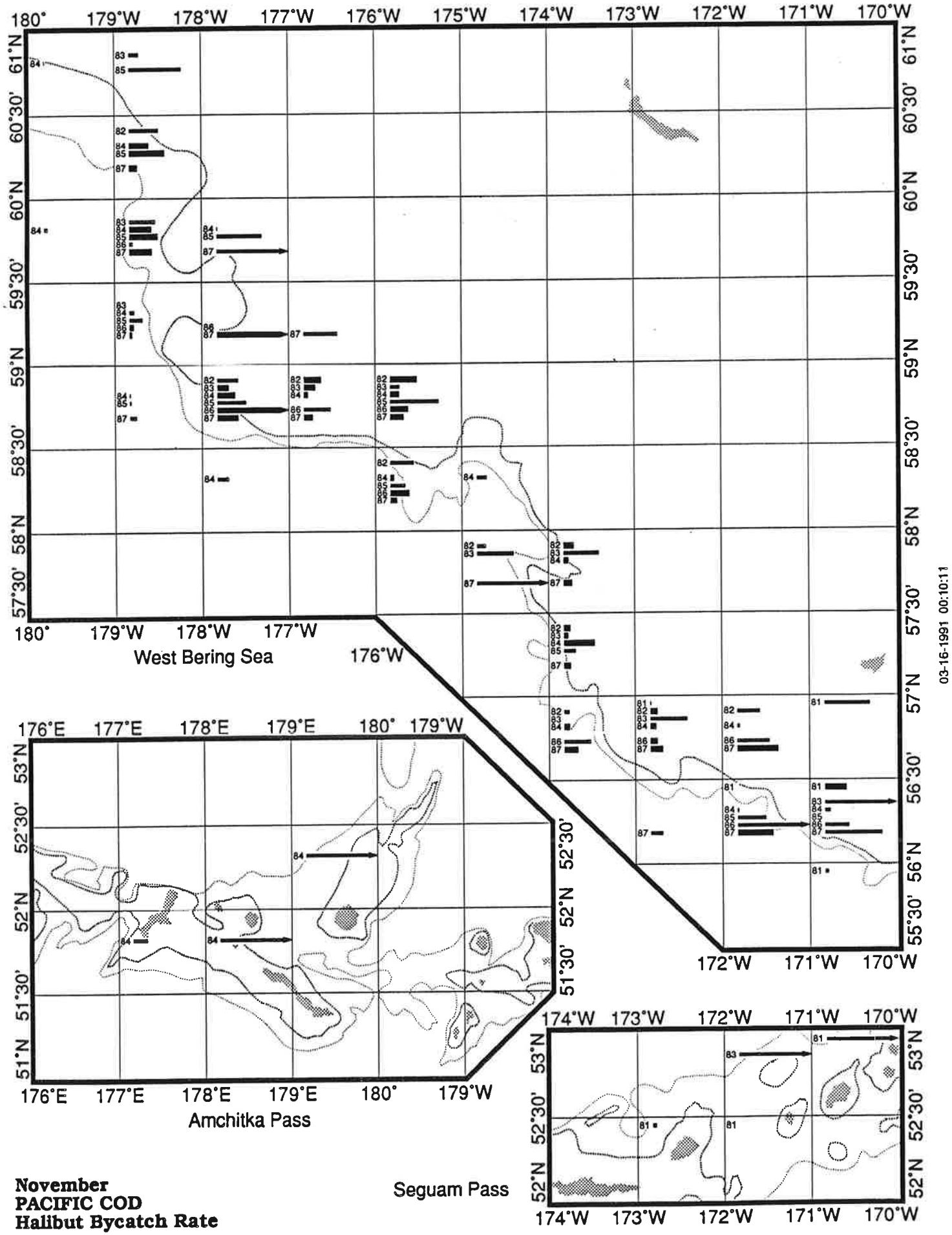
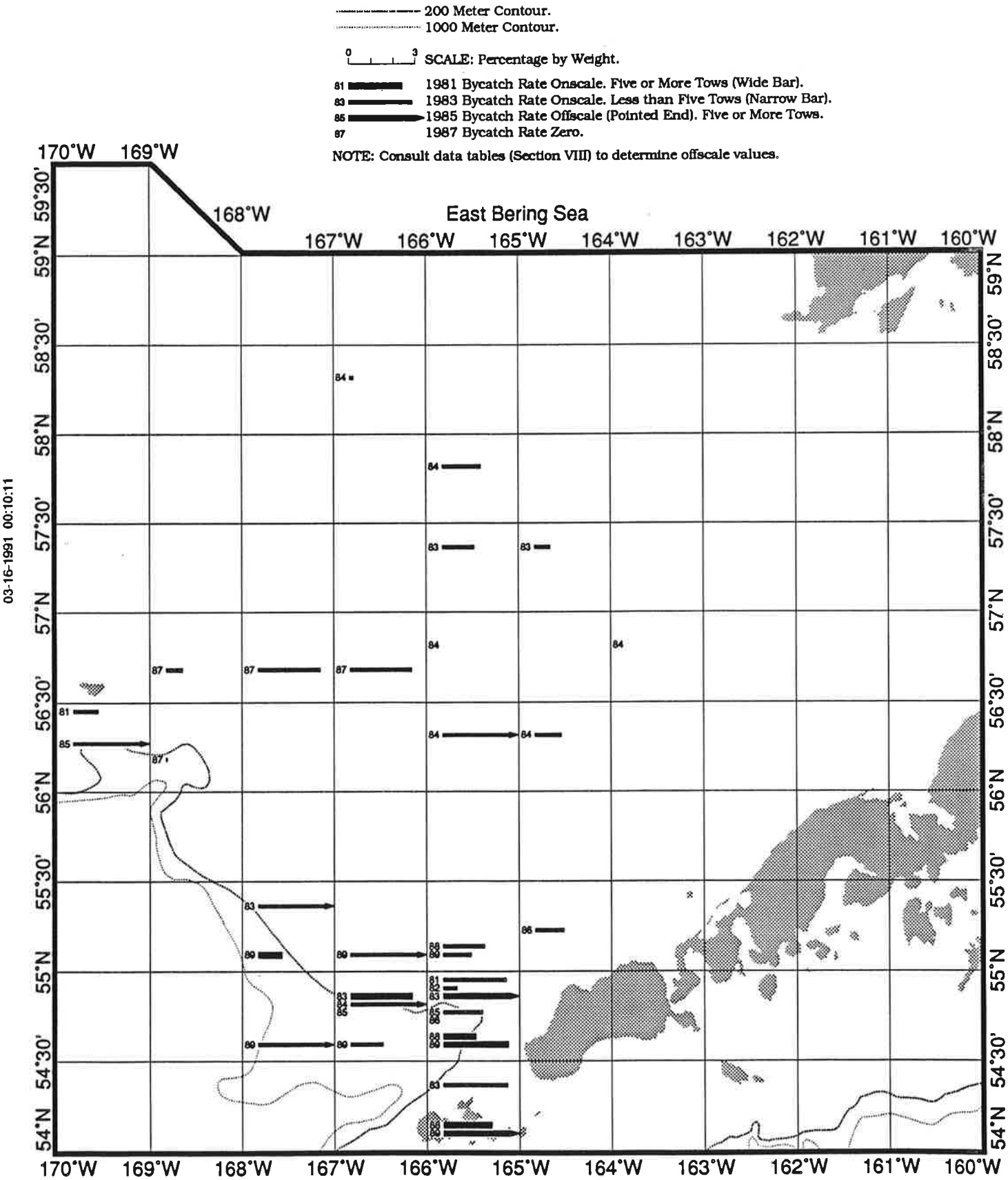


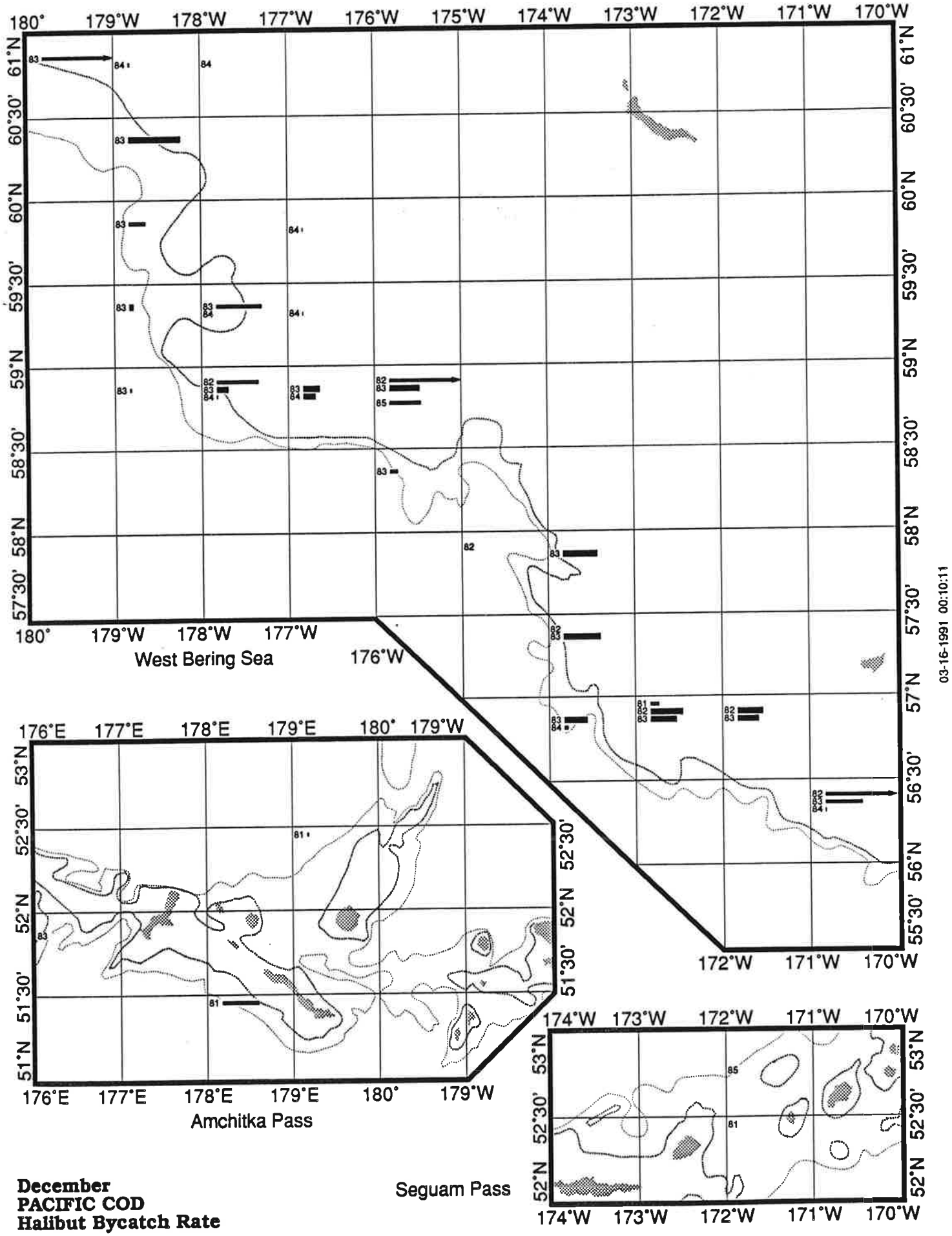
November
PACIFIC COD
Halibut Bycatch Rate

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

November
PACIFIC COD
Halibut Bycatch Rate



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



December
PACIFIC COD
Halibut Bycatch Rate

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

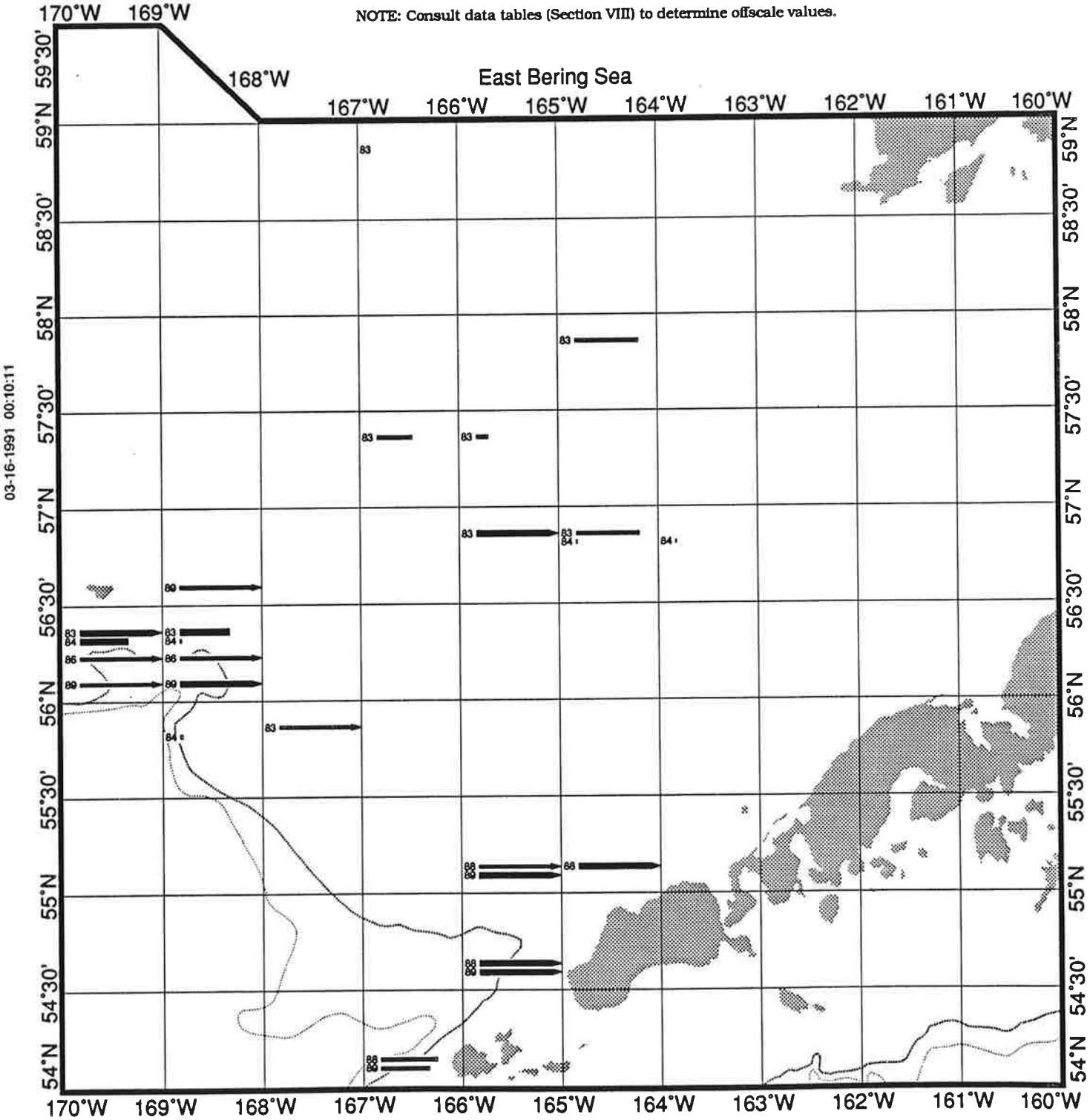
December
PACIFIC COD
Halibut Bycatch Rate

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.

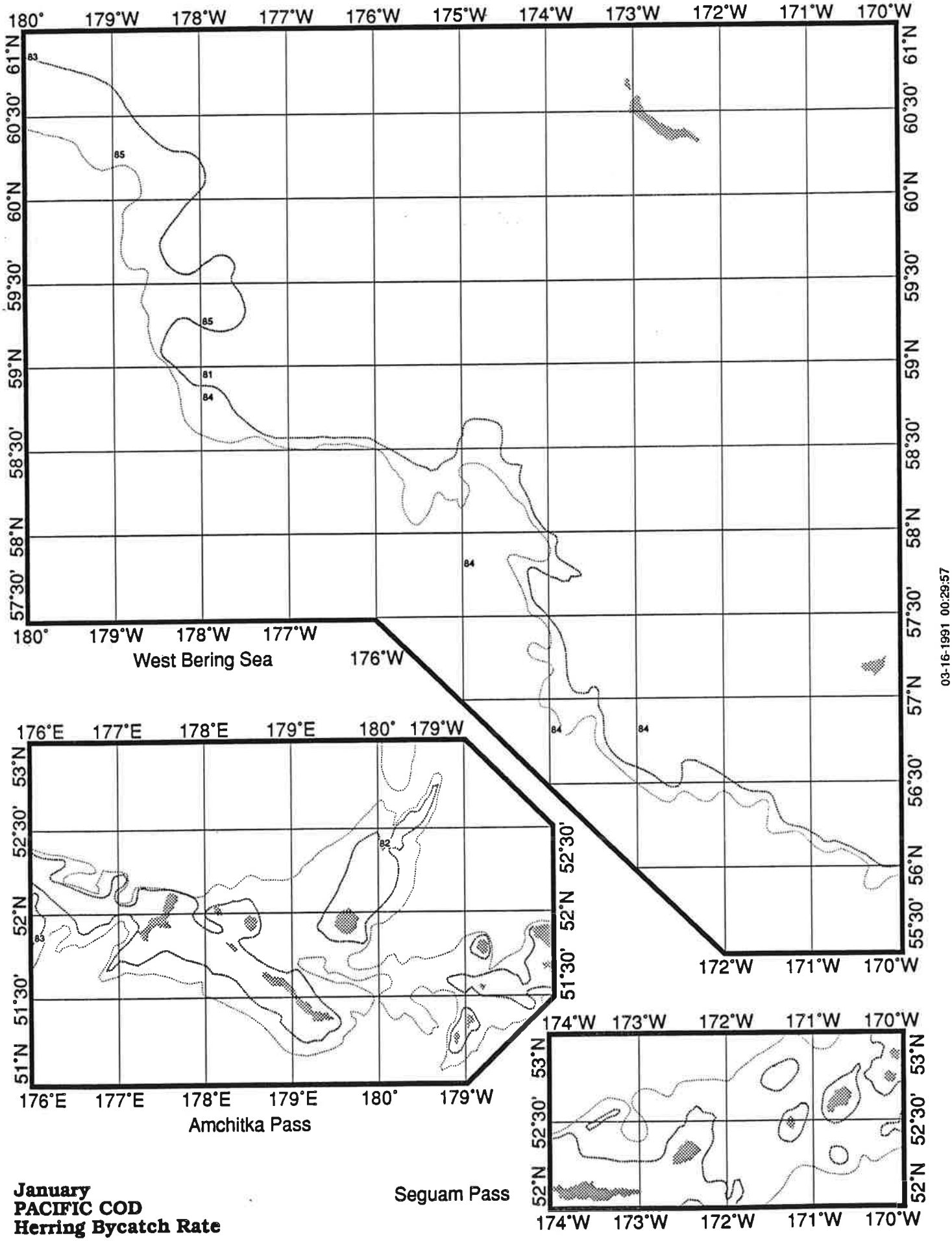
NOTE: Consult data tables (Section VIII) to determine offscale values.



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

SECTION V

HERRING BYCATCH RATE CHARTS



January
PACIFIC COD
Herring Bycatch Rate

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

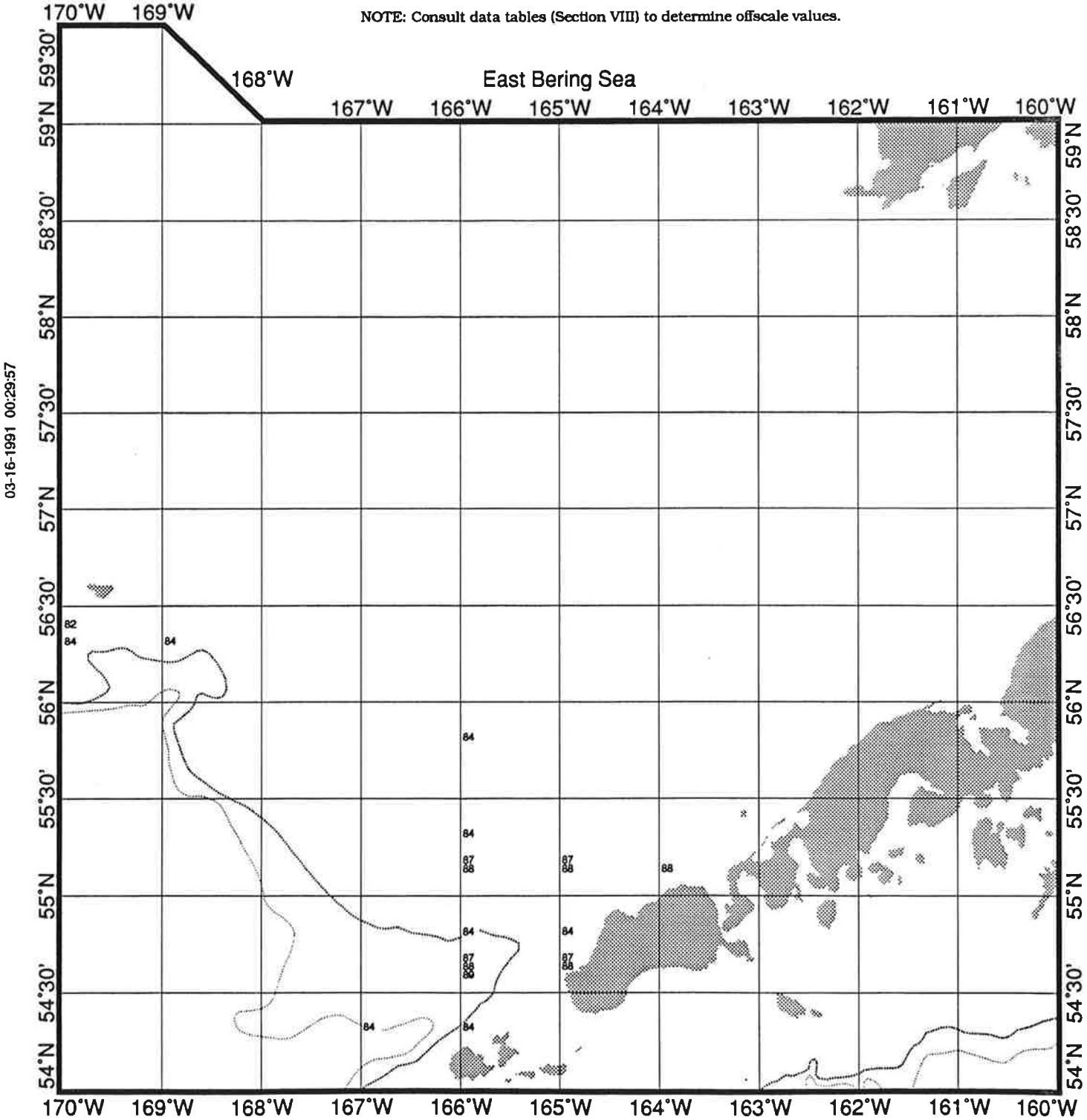
January
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

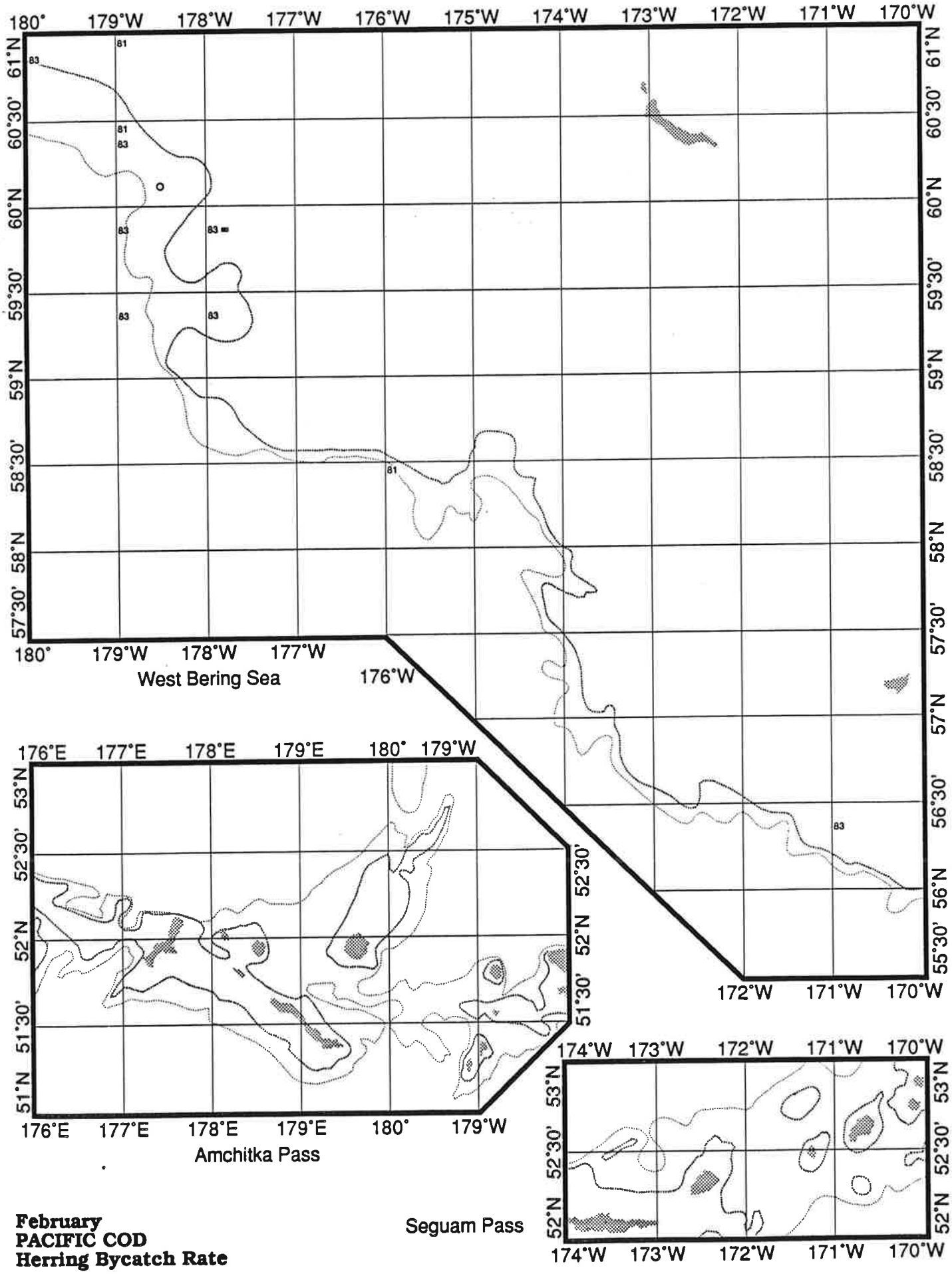
0.0 0.5 SCALE: Percentage by Weight.

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.



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



February
PACIFIC COD
Herring Bycatch Rate

03-16-1991 00:29:57

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

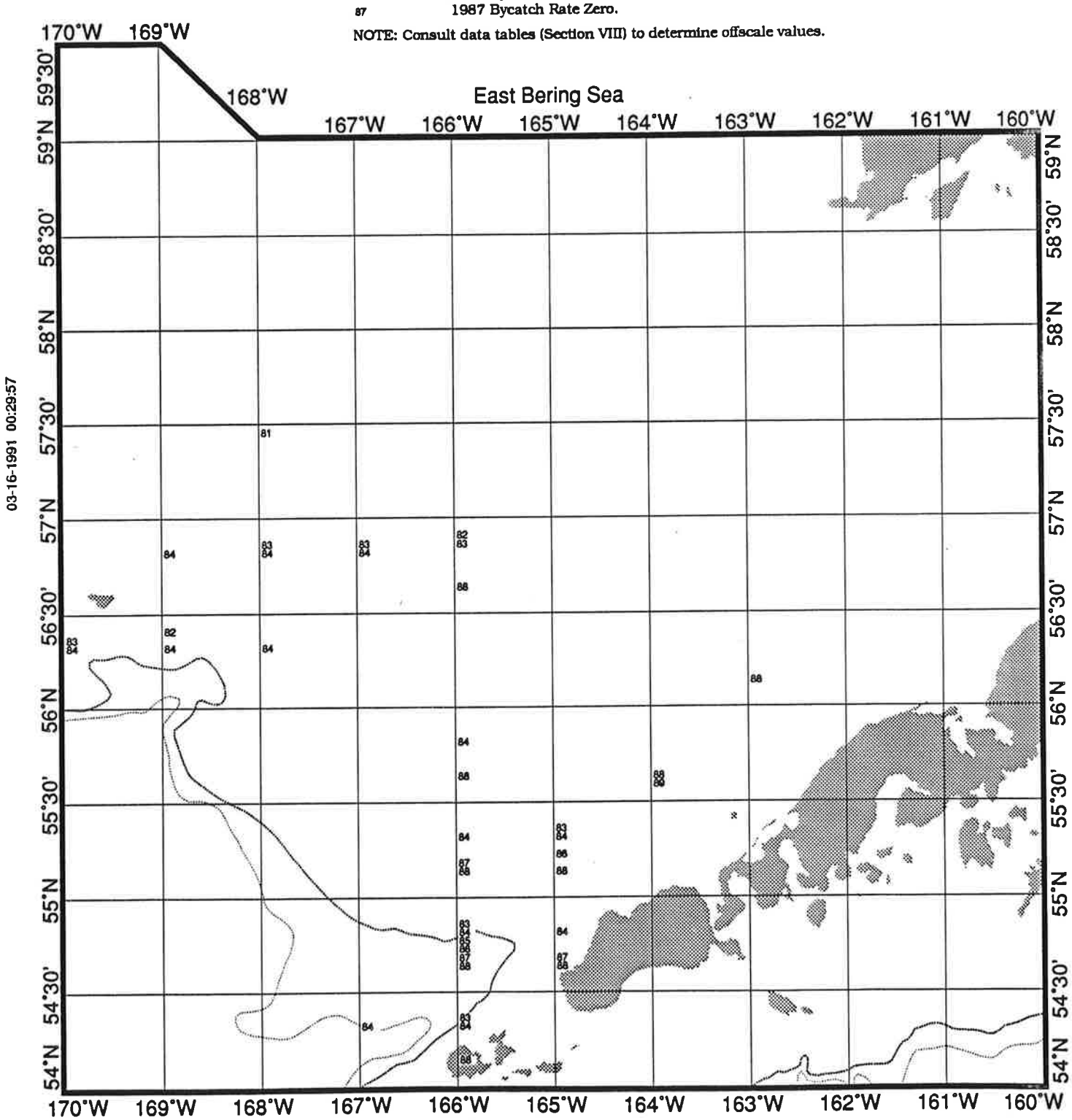
February
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

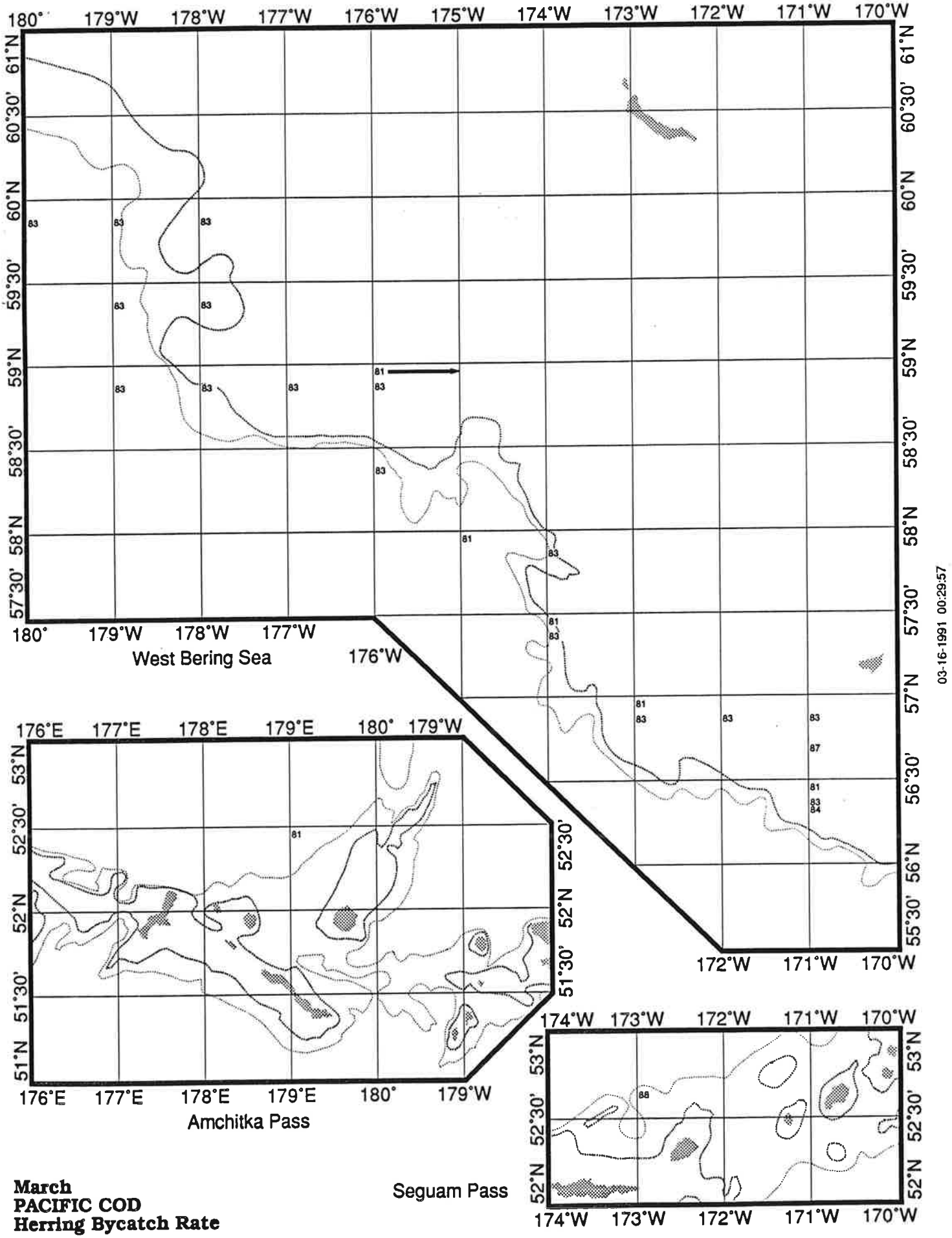
0.0 0.5 SCALE: Percentage by Weight.

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.



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



March
PACIFIC COD
Herring Bycatch Rate

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

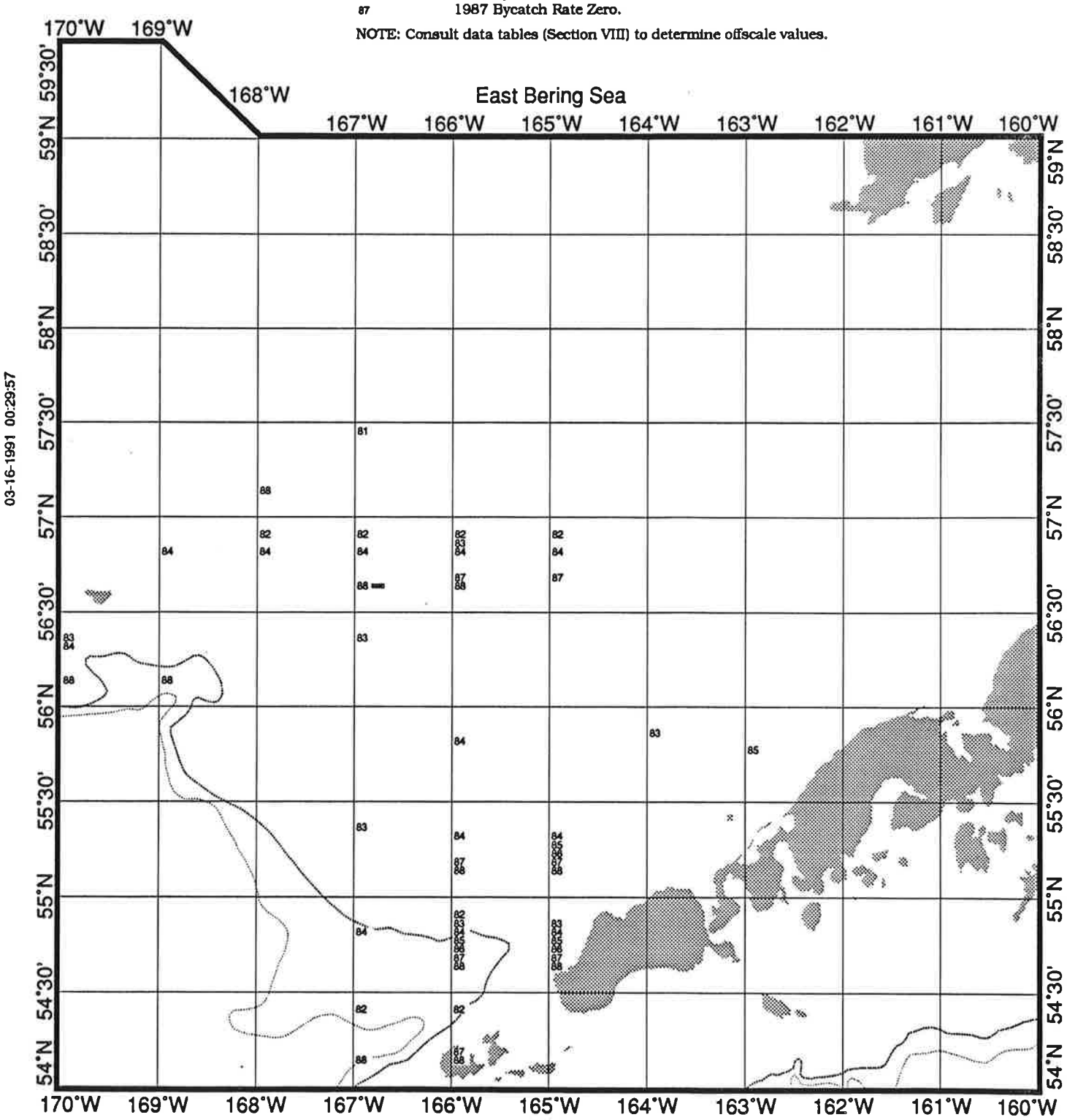
March
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

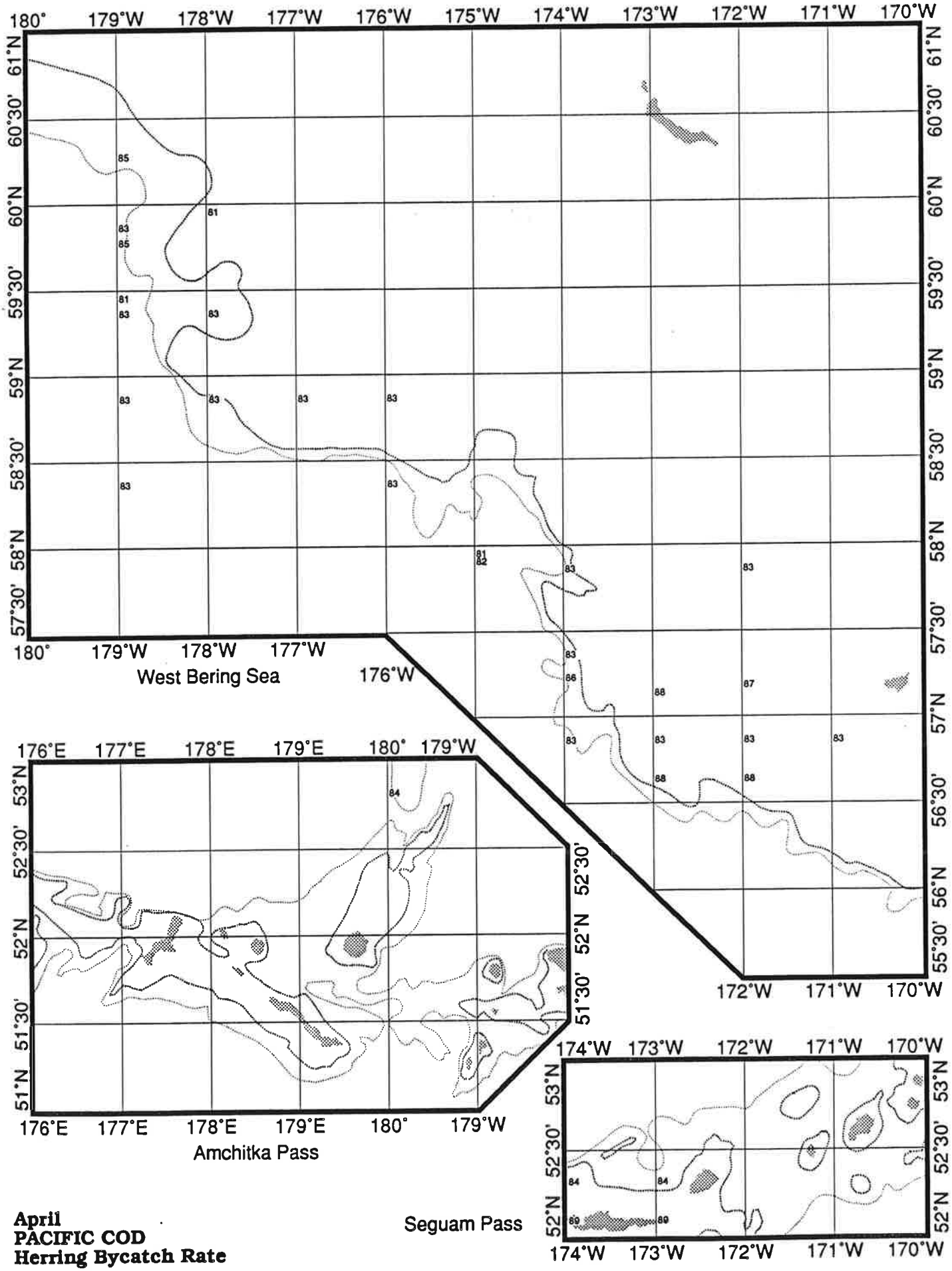
0.0 0.5 SCALE: Percentage by Weight.

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.



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



April
PACIFIC COD
Herring Bycatch Rate

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

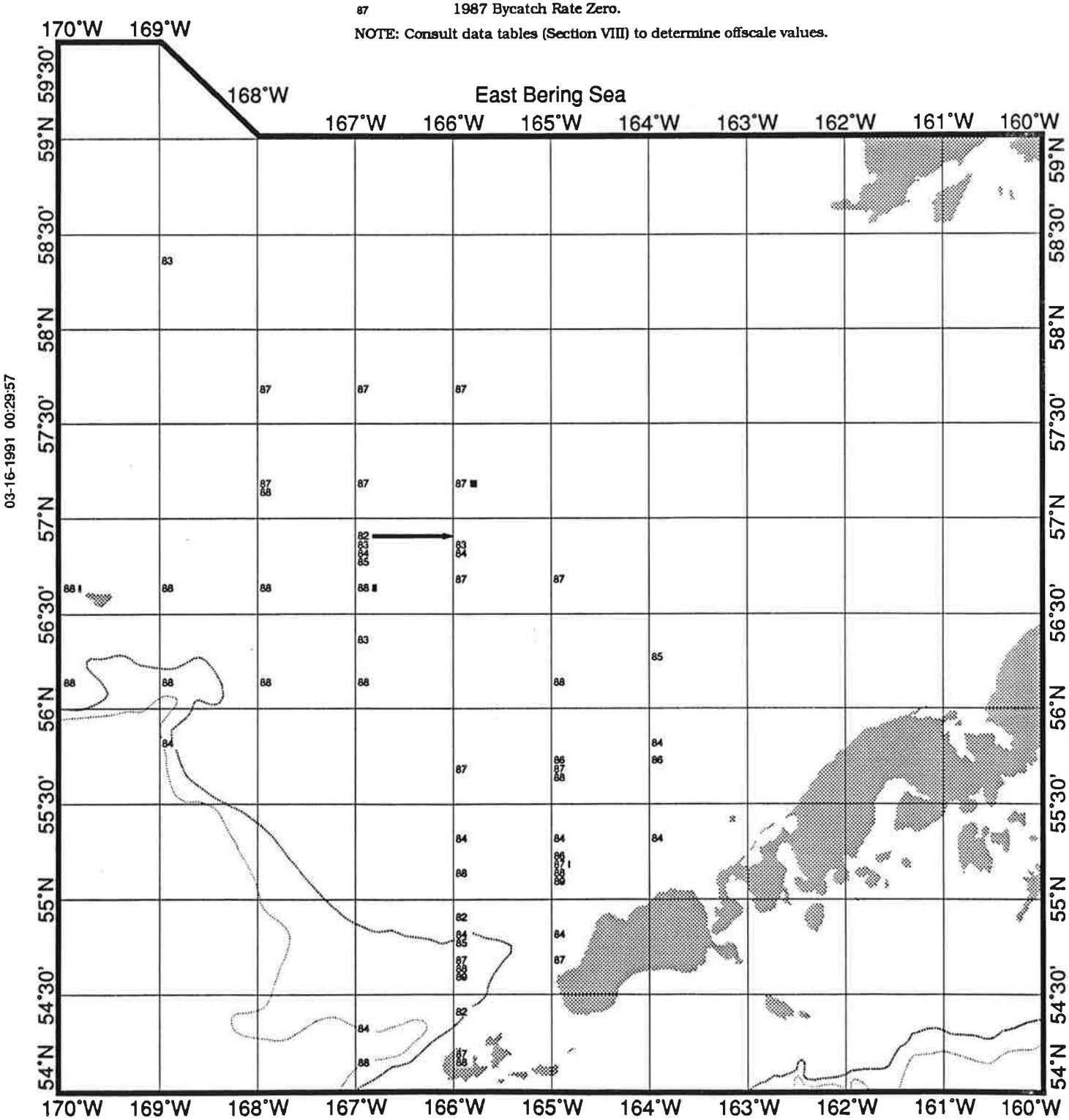
April
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

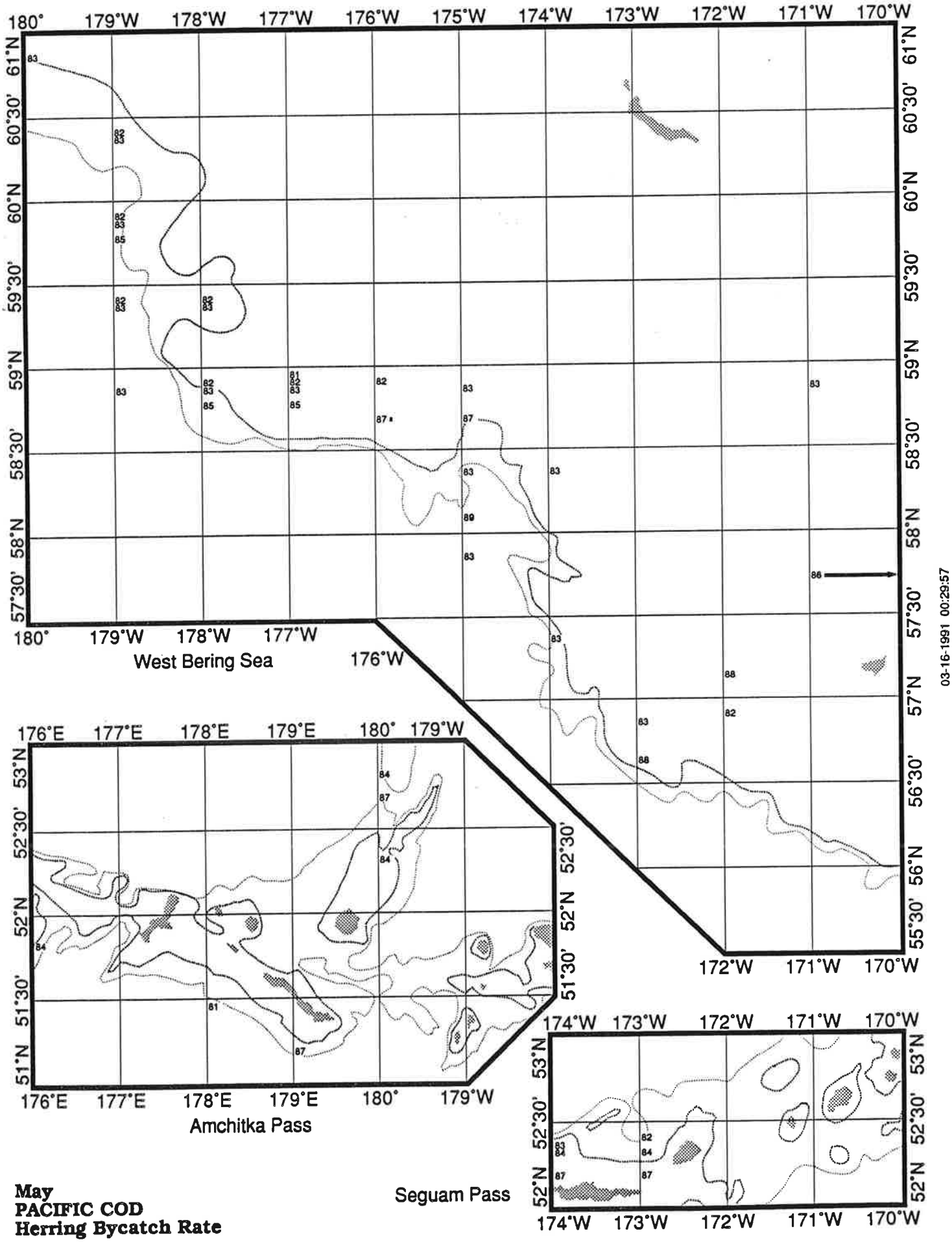
0.0 0.5 SCALE: Percentage by Weight.

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.



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



May
PACIFIC COD
Herring Bycatch Rate

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

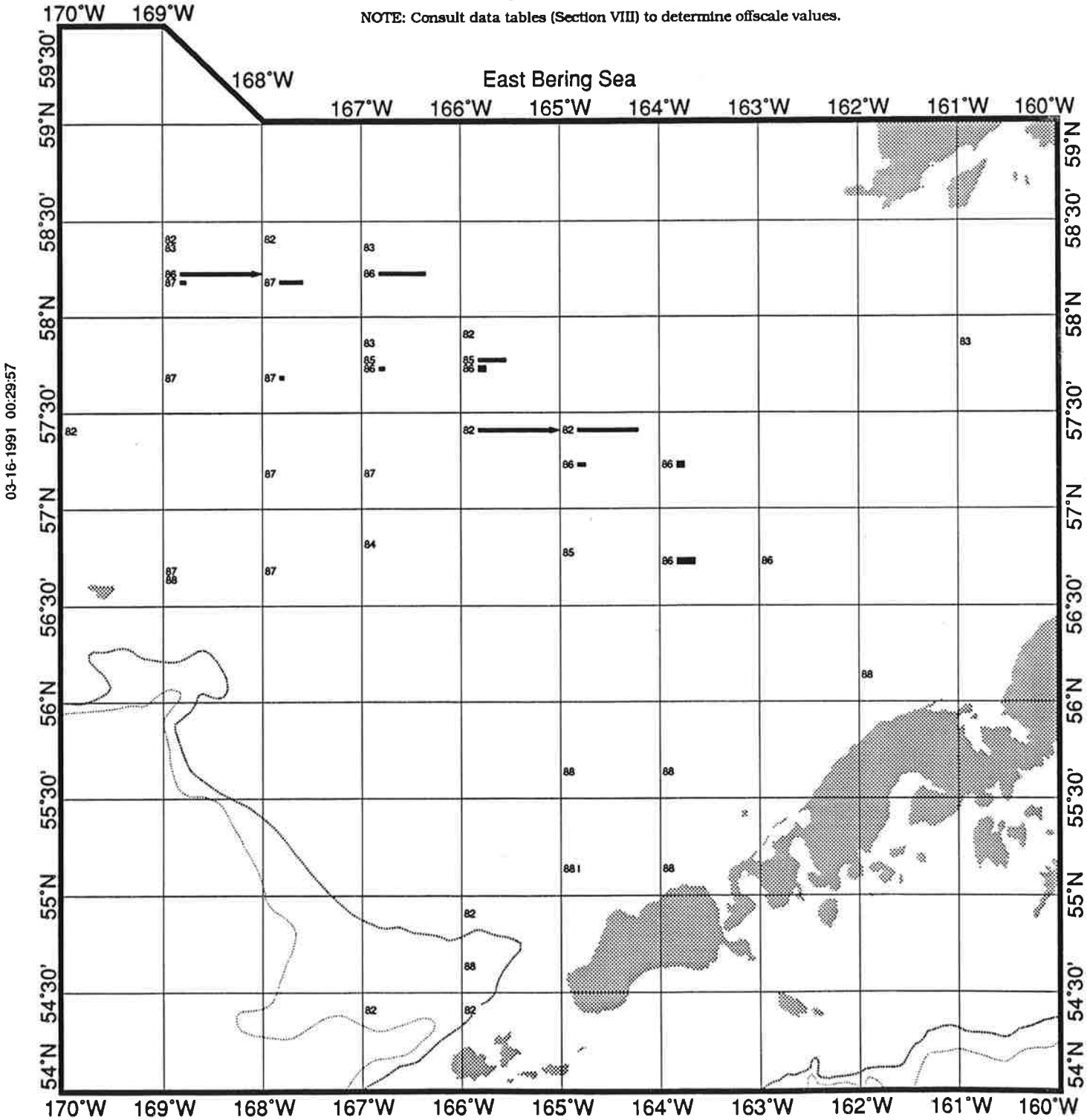
May
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

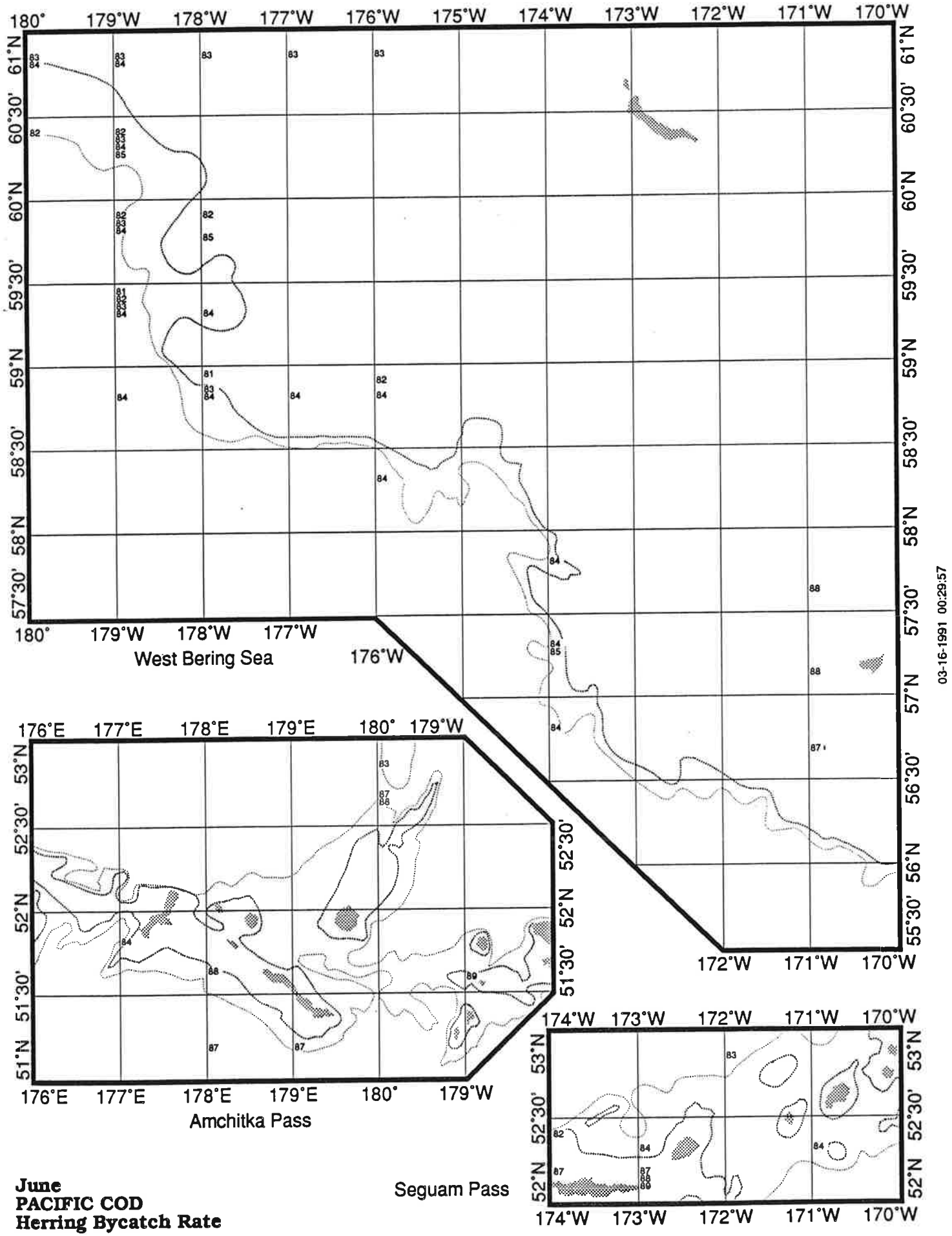
0.0 0.5 SCALE: Percentage by Weight.

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.



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



June
PACIFIC COD
Herring Bycatch Rate

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

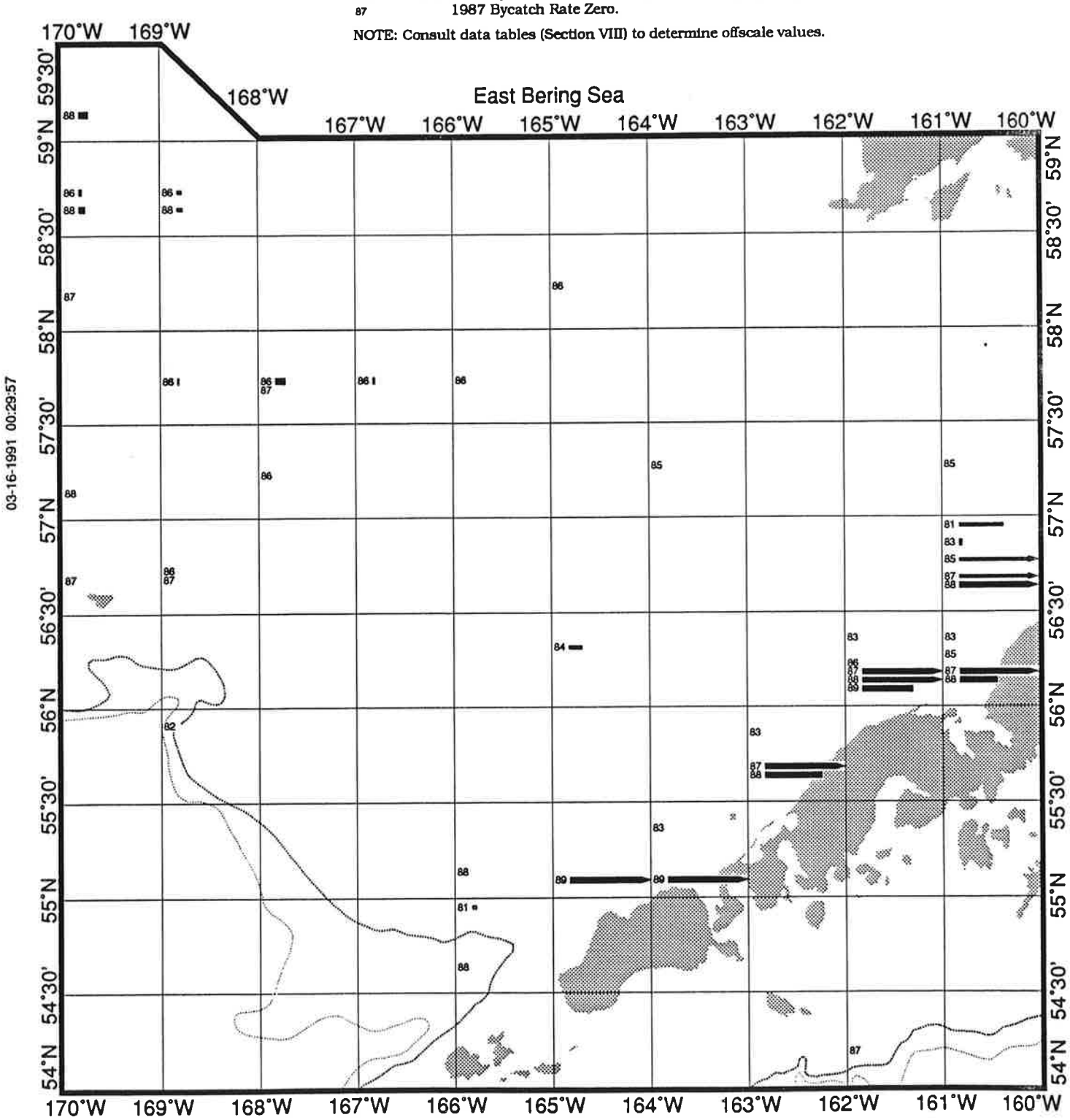
June
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

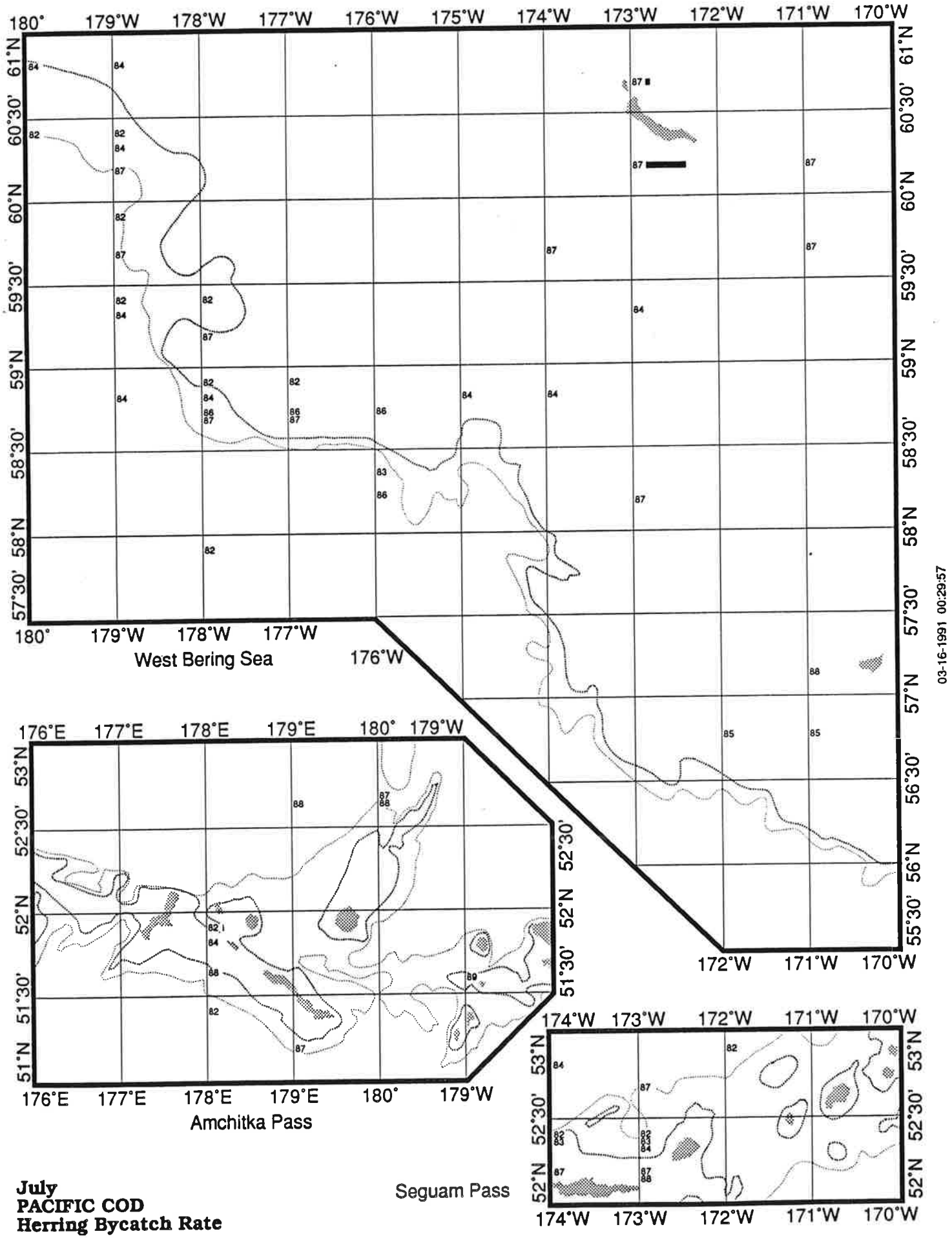
0.0 0.5 SCALE: Percentage by Weight.

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.



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



July
PACIFIC COD
Herring Bycatch Rate

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

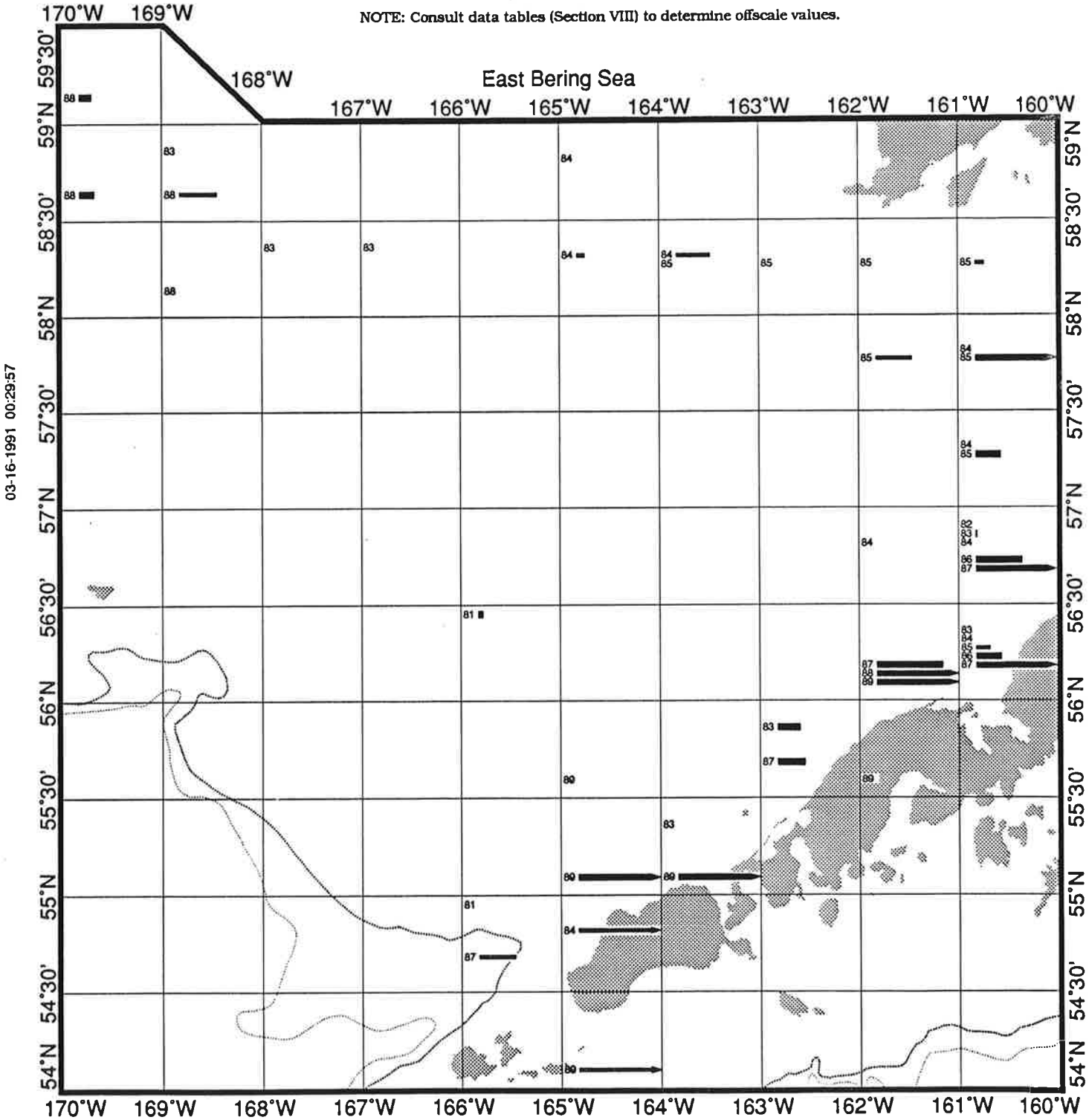
July
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

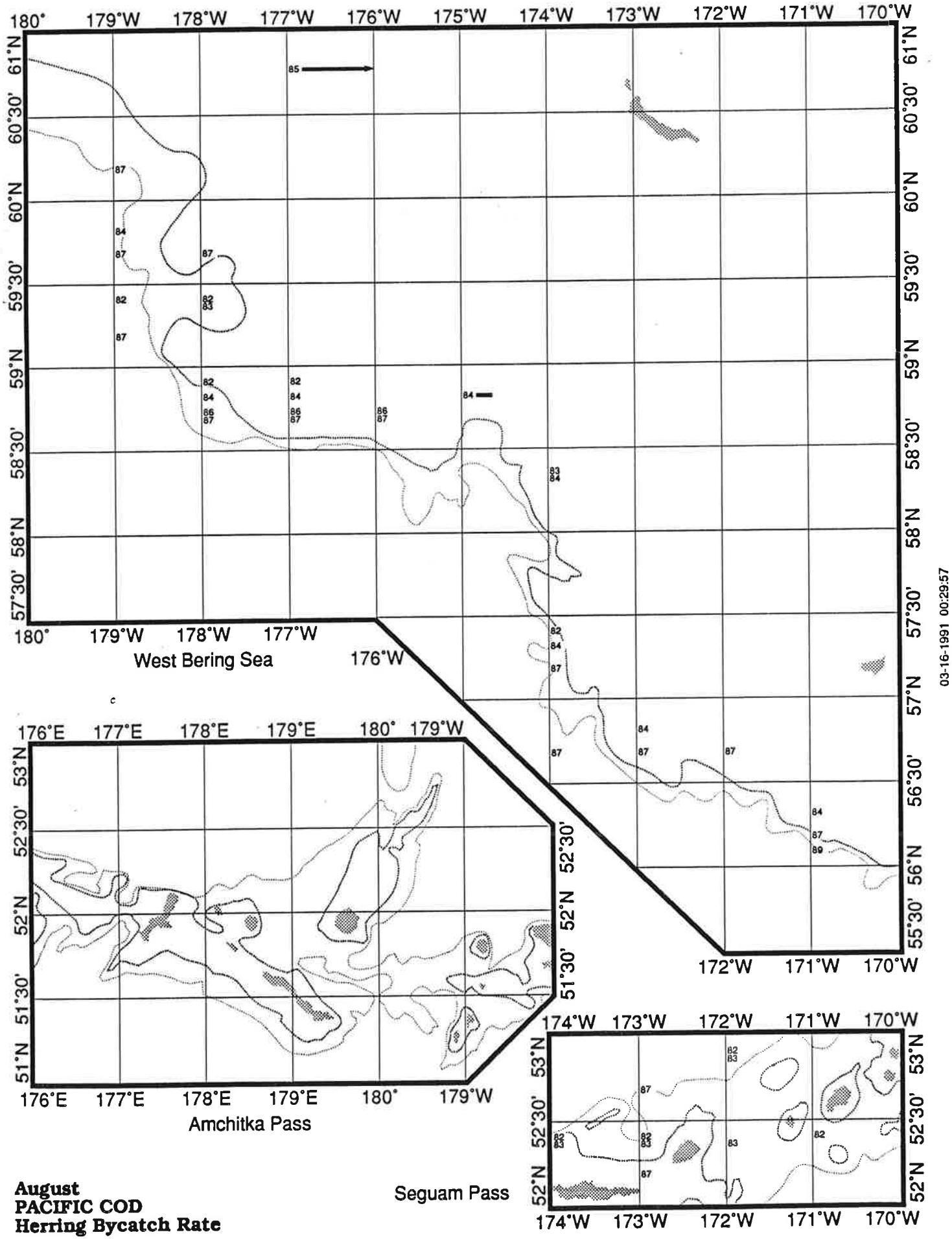
0.0 0.5 SCALE: Percentage by Weight.

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.



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



August
PACIFIC COD
Herring Bycatch Rate

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

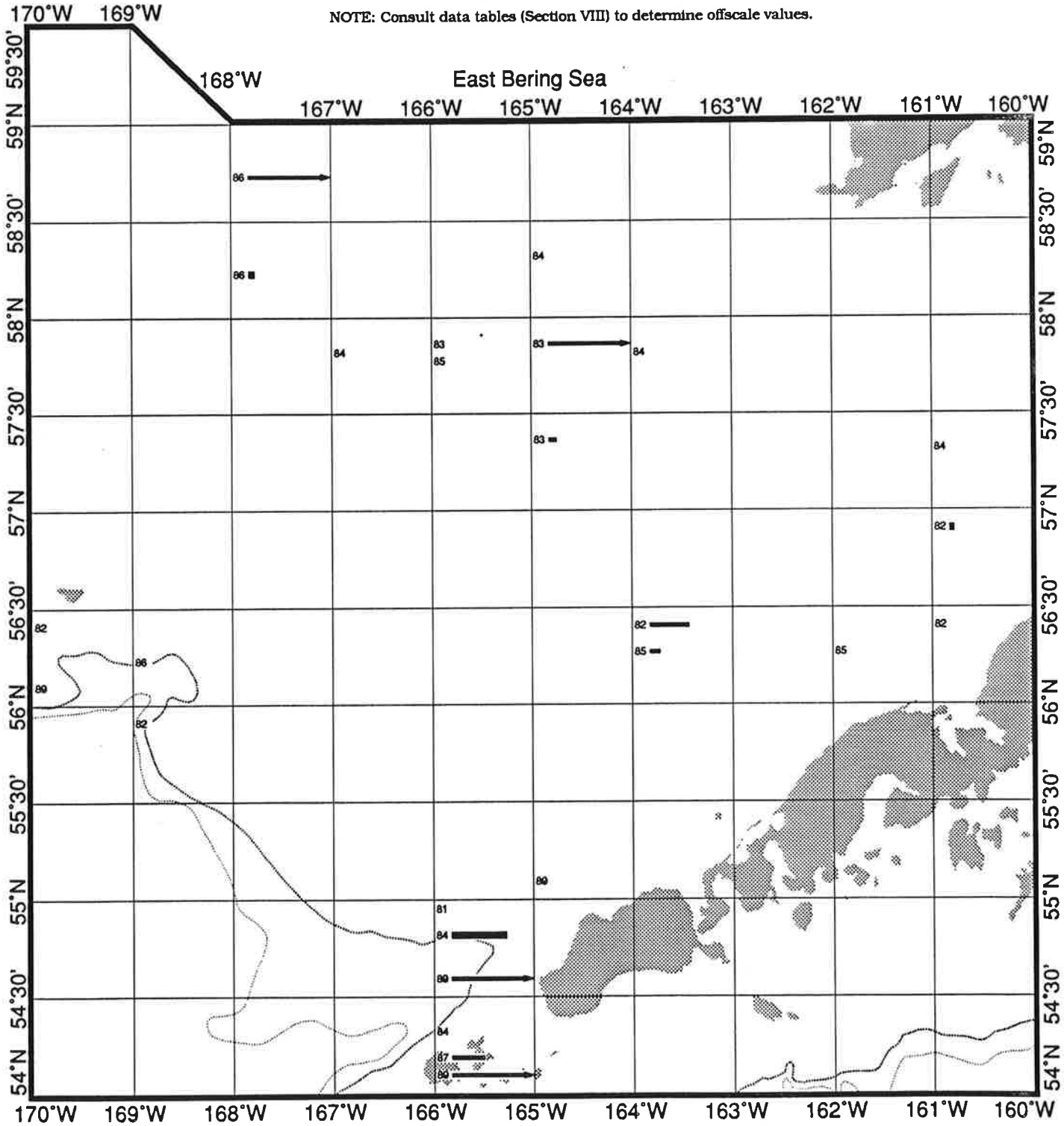
August
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

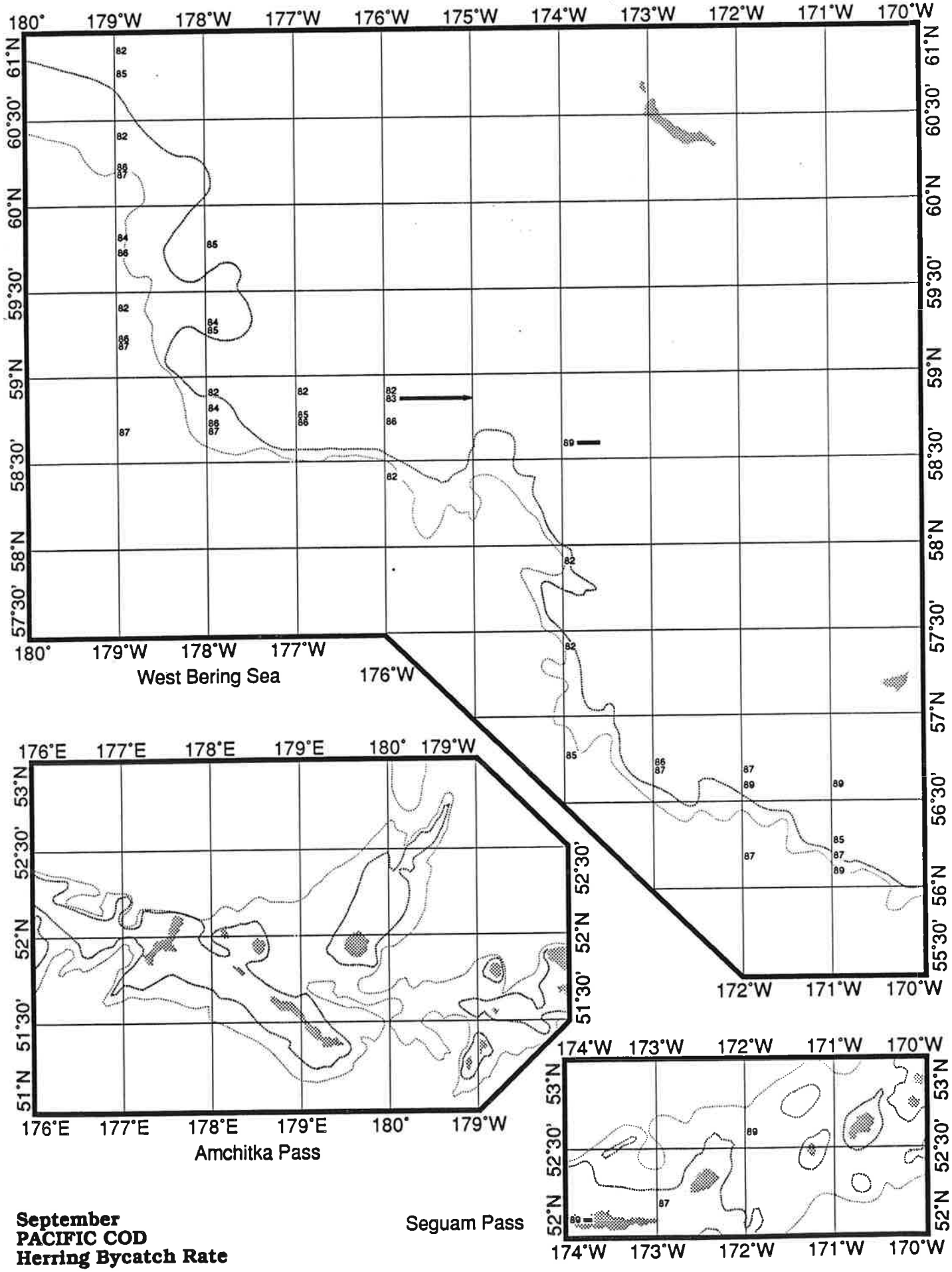
0.0 0.5 SCALE: Percentage by Weight.

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.



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



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September
PACIFIC COD
Herring Bycatch Rate

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

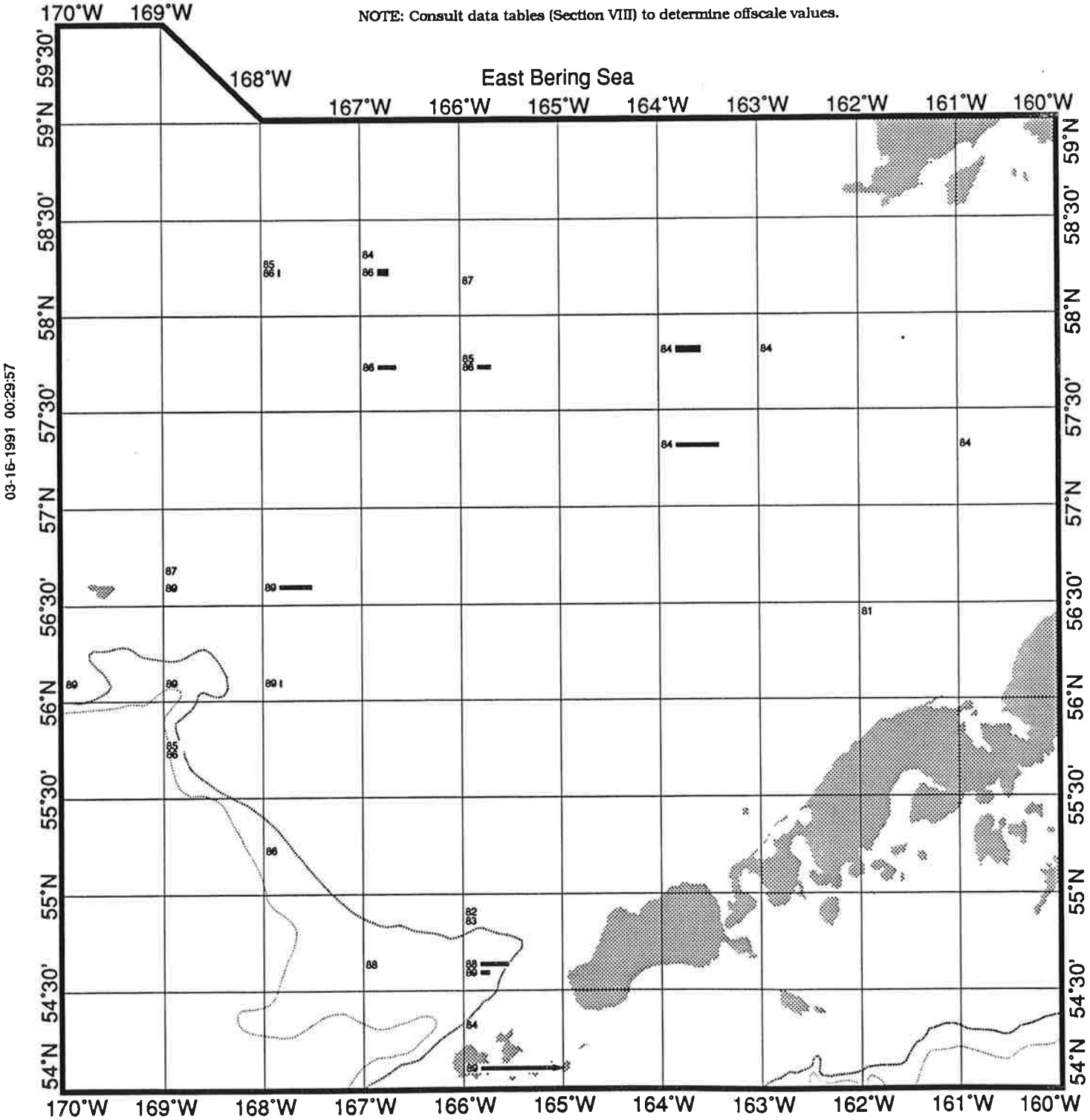
September
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

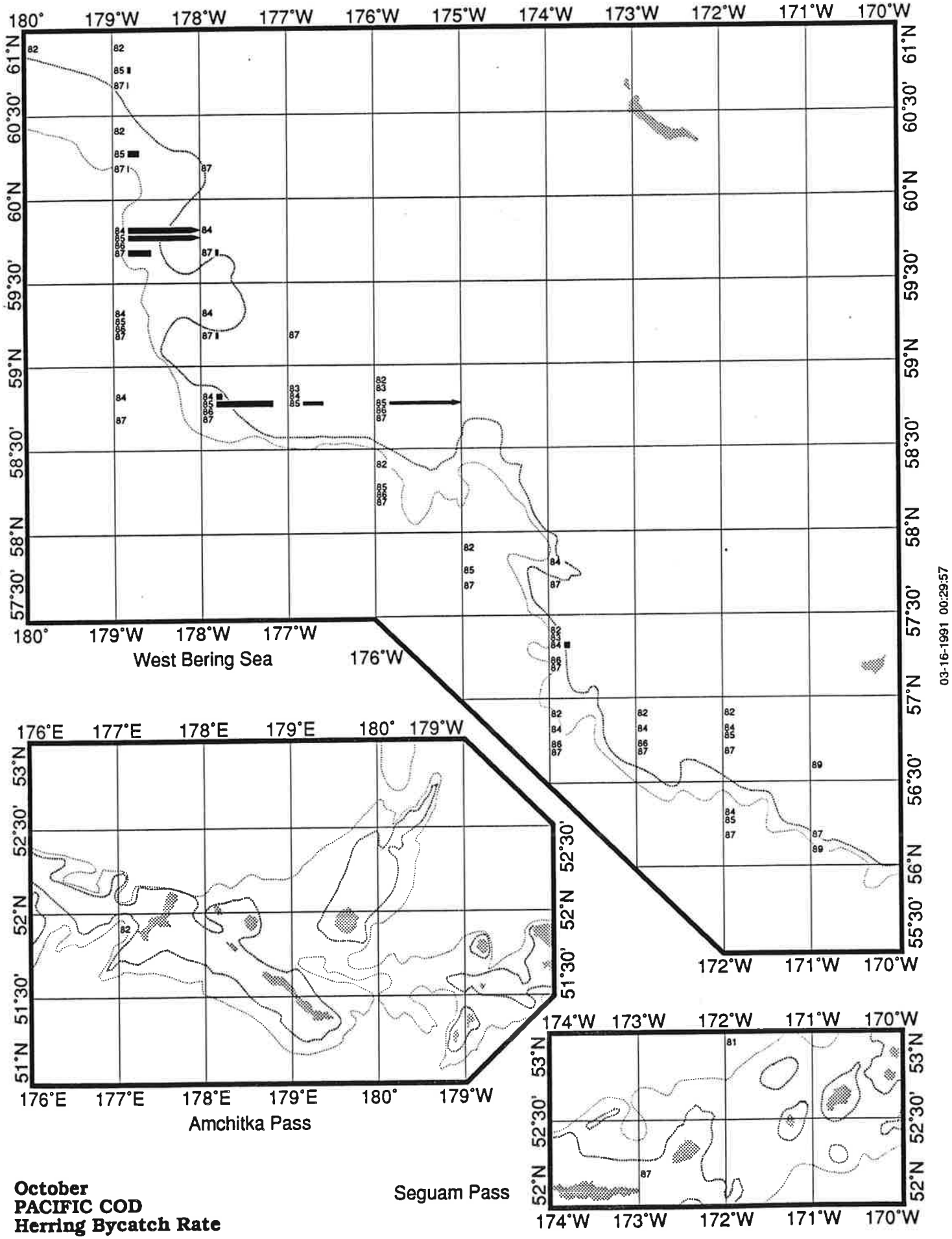
0.0 0.5 SCALE: Percentage by Weight.

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.



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



October
PACIFIC COD
Herring Bycatch Rate

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

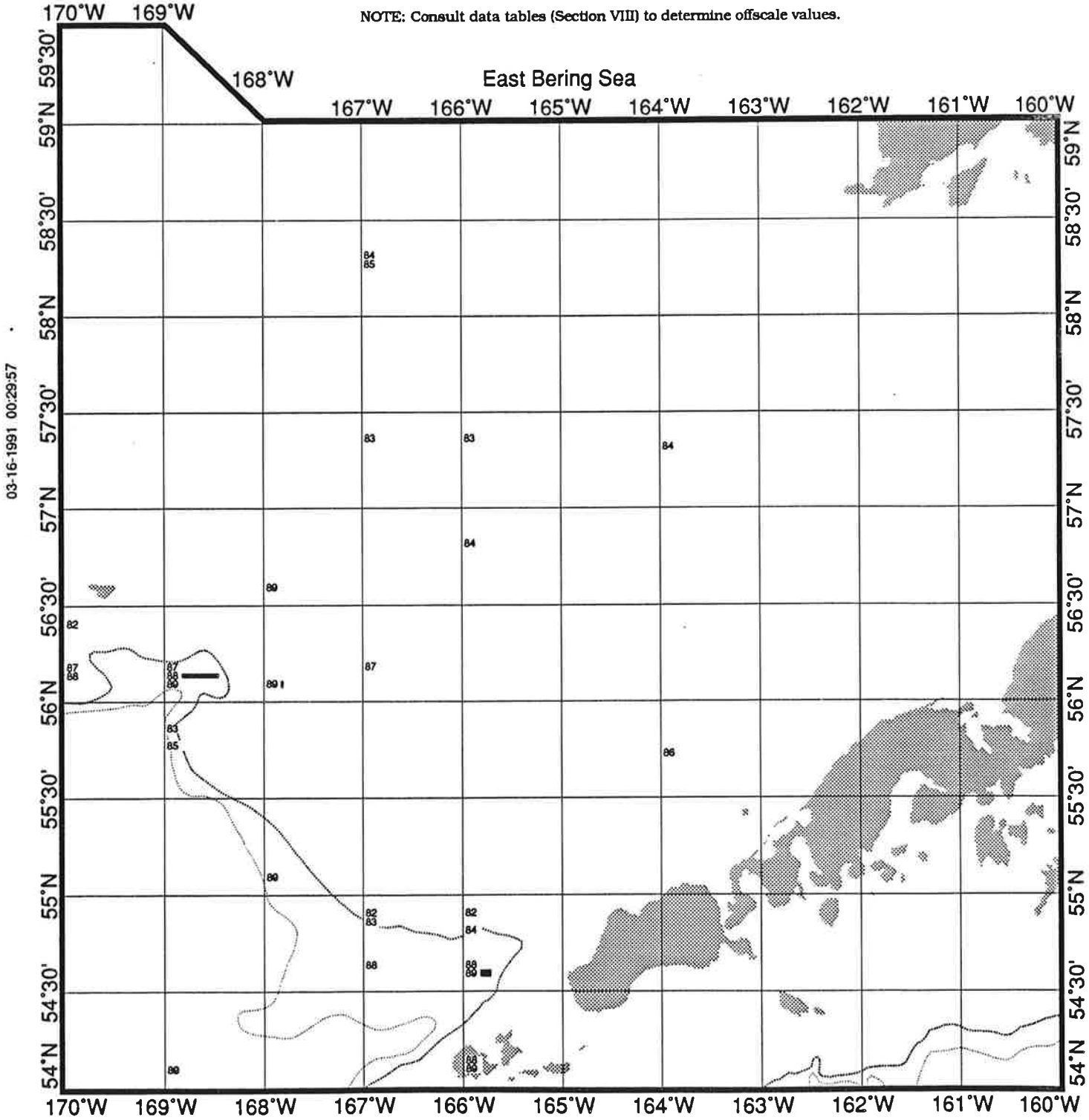
October
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

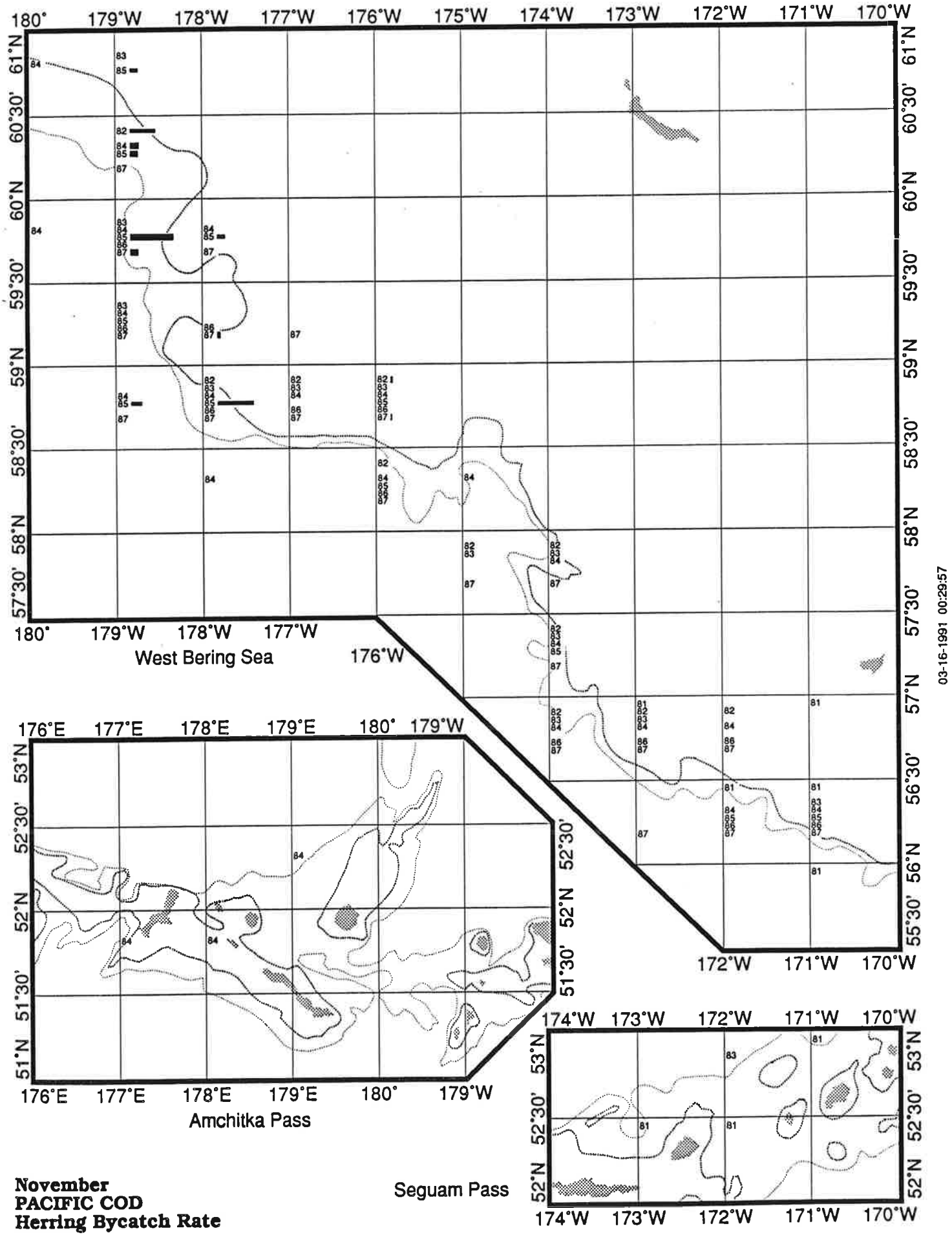
0.0 0.5 SCALE: Percentage by Weight.

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.



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



November
PACIFIC COD
Herring Bycatch Rate

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

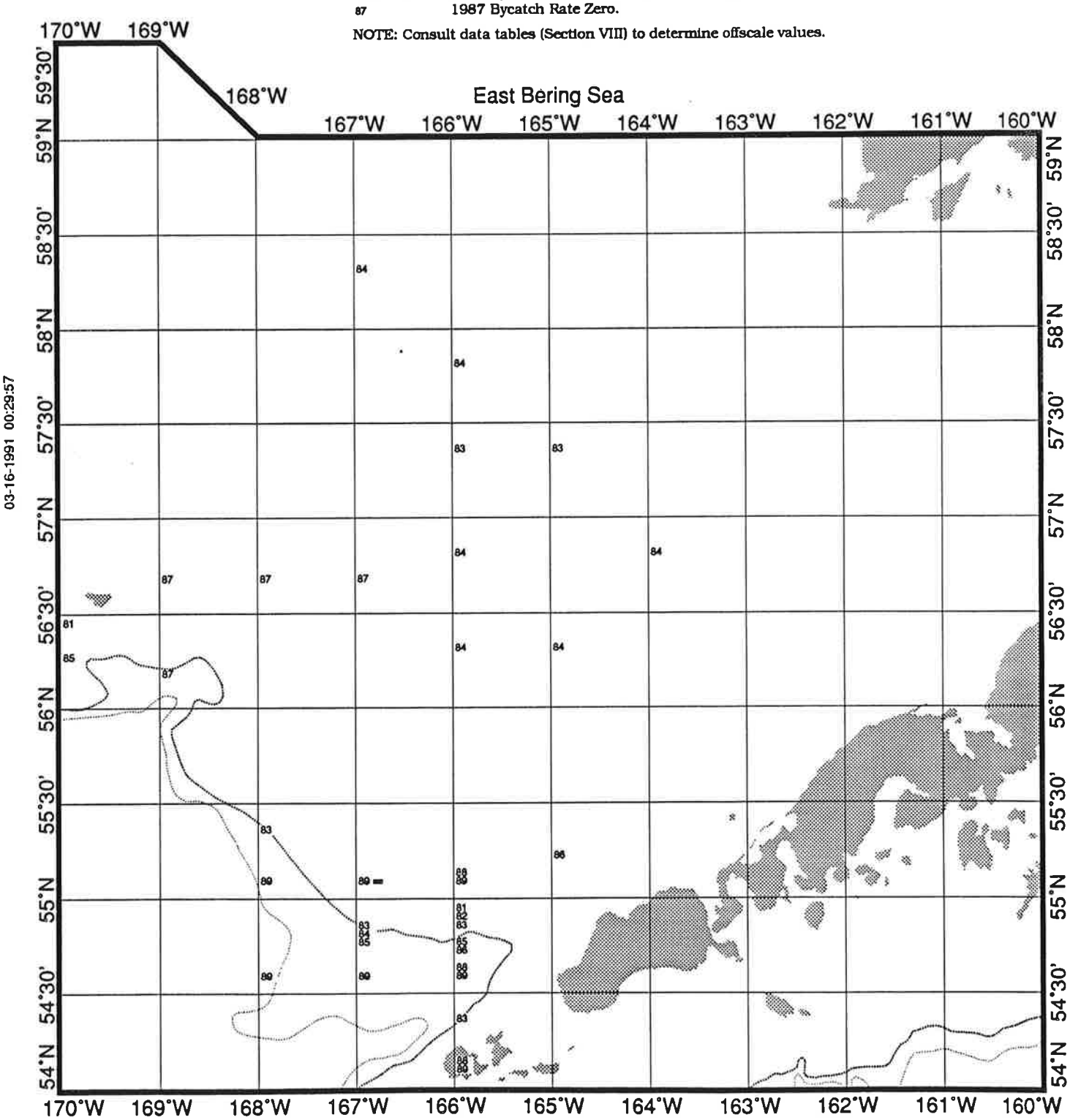
November
PACIFIC COD
Herring Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

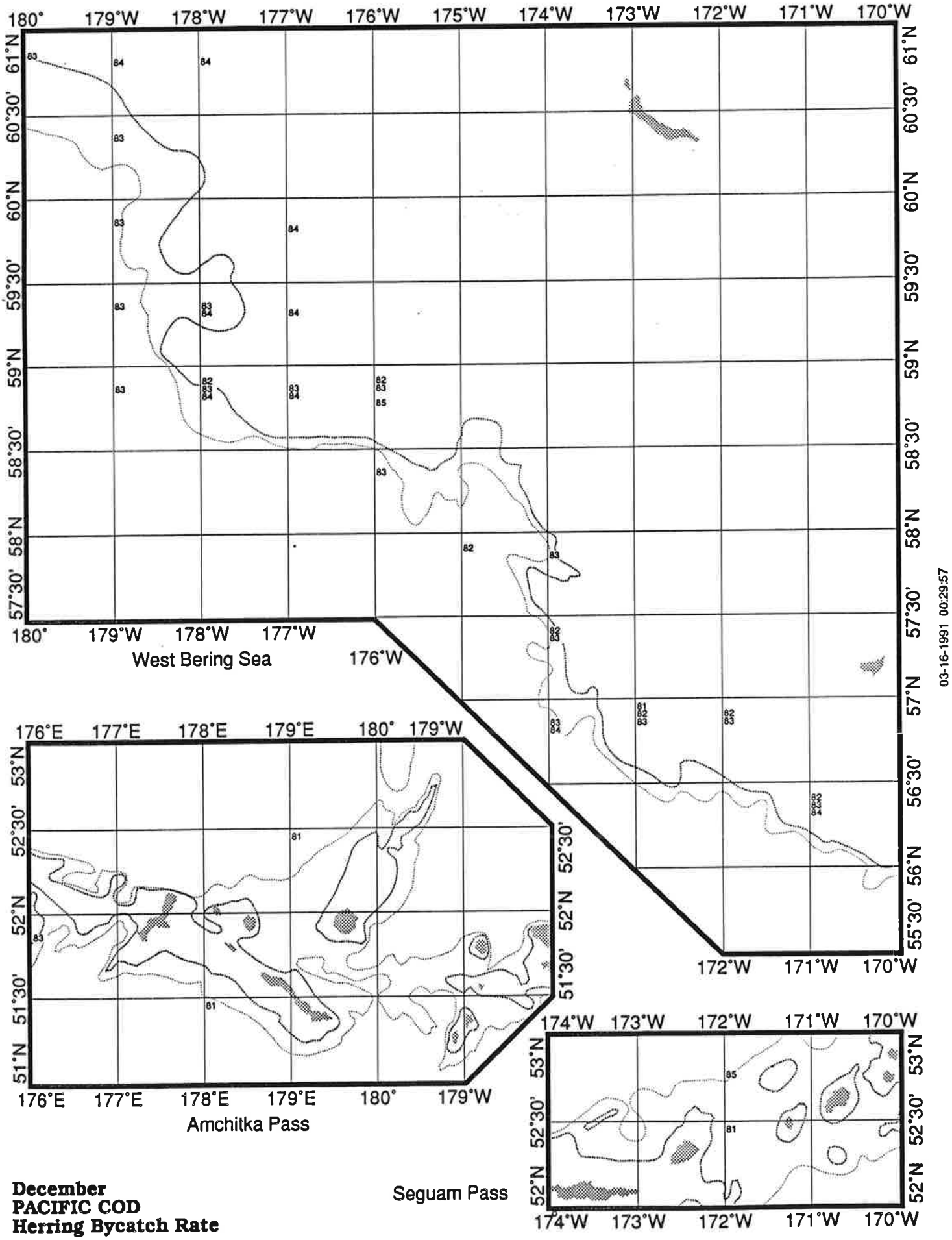
0.0 0.5 SCALE: Percentage by Weight.

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.



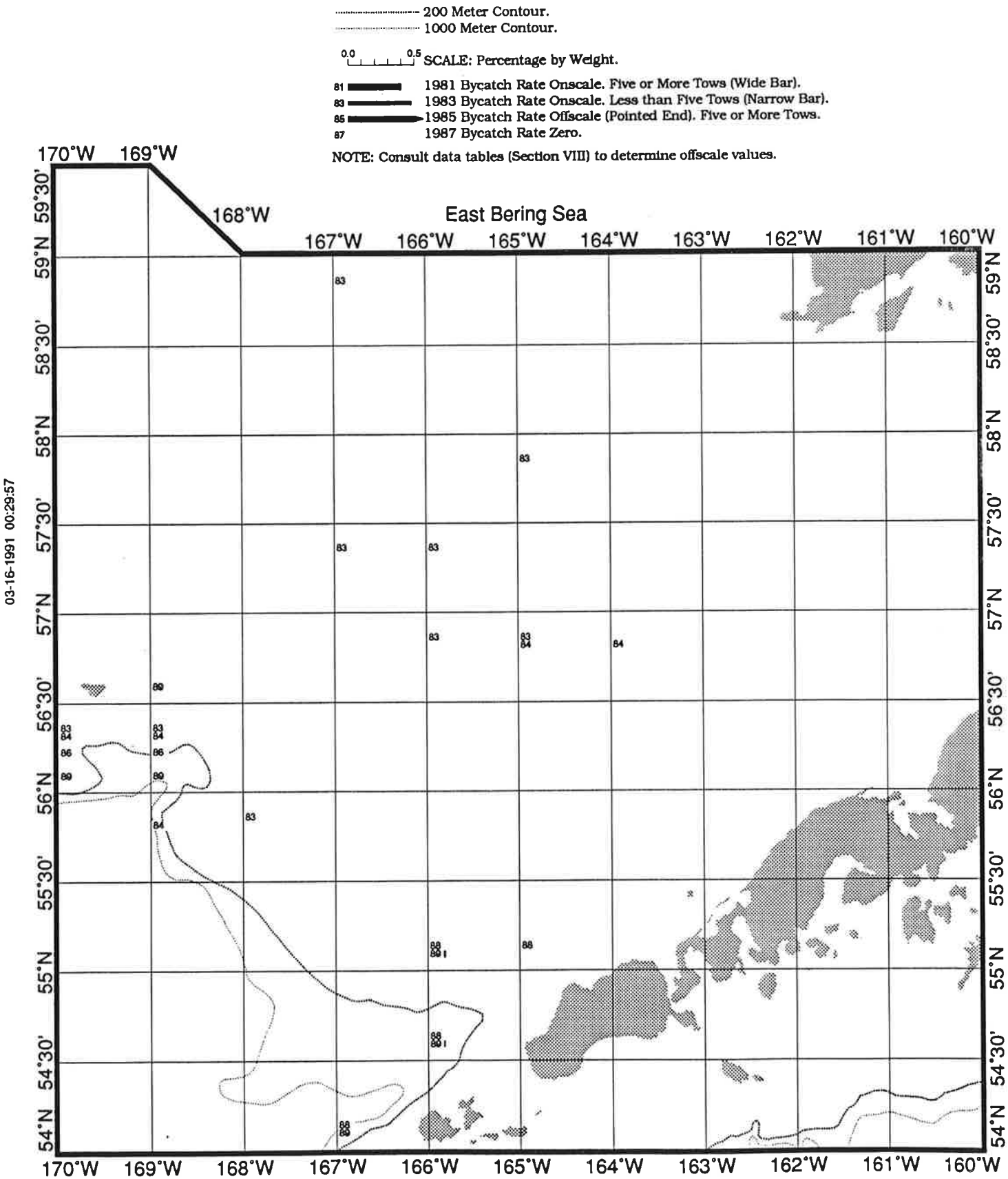
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



December
PACIFIC COD
Herring Bycatch Rate

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

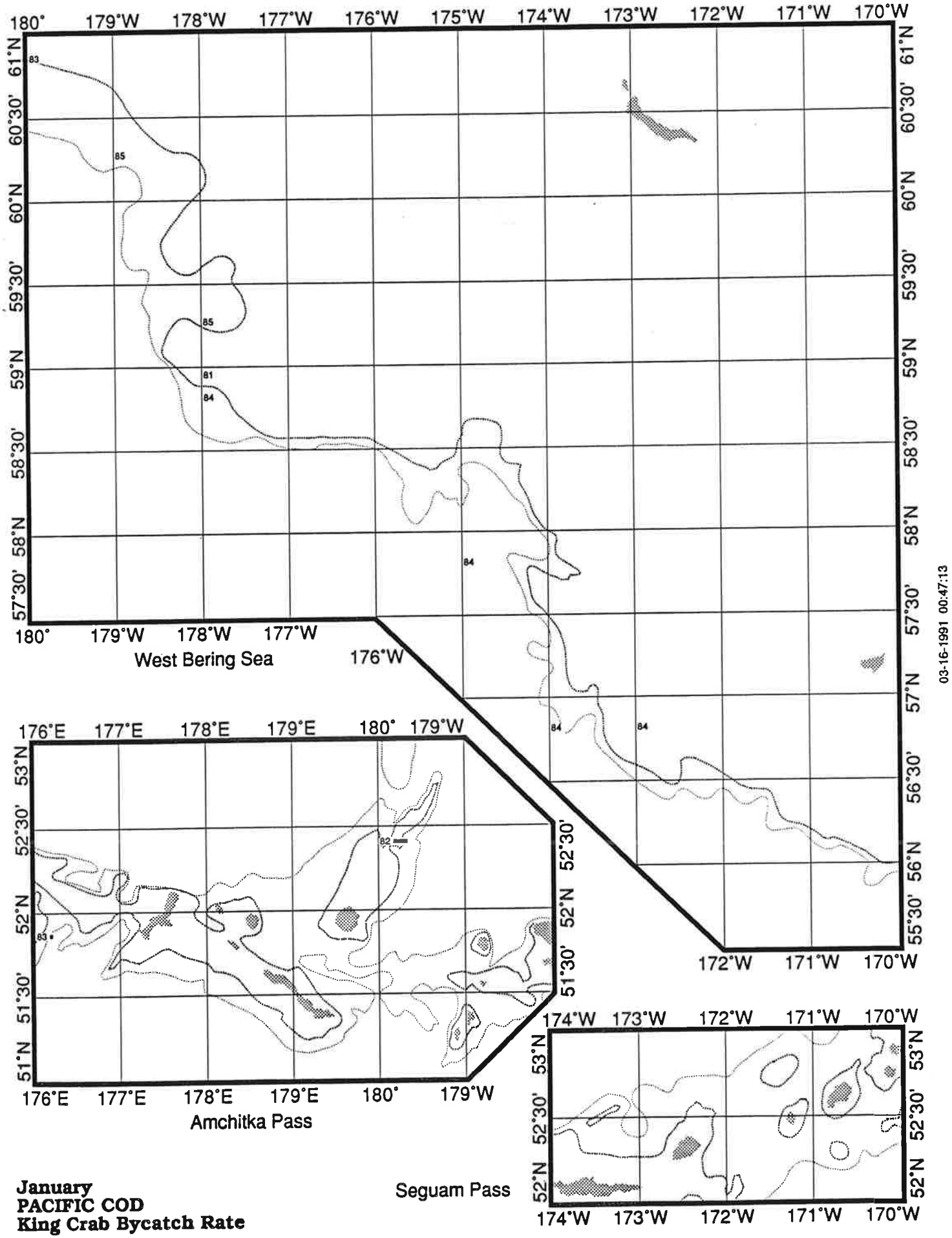
December
PACIFIC COD
Herring Bycatch Rate



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

SECTION VI

KING CRAB BYCATCH RATE CHARTS



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January
PACIFIC COD
King Crab Bycatch Rate

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

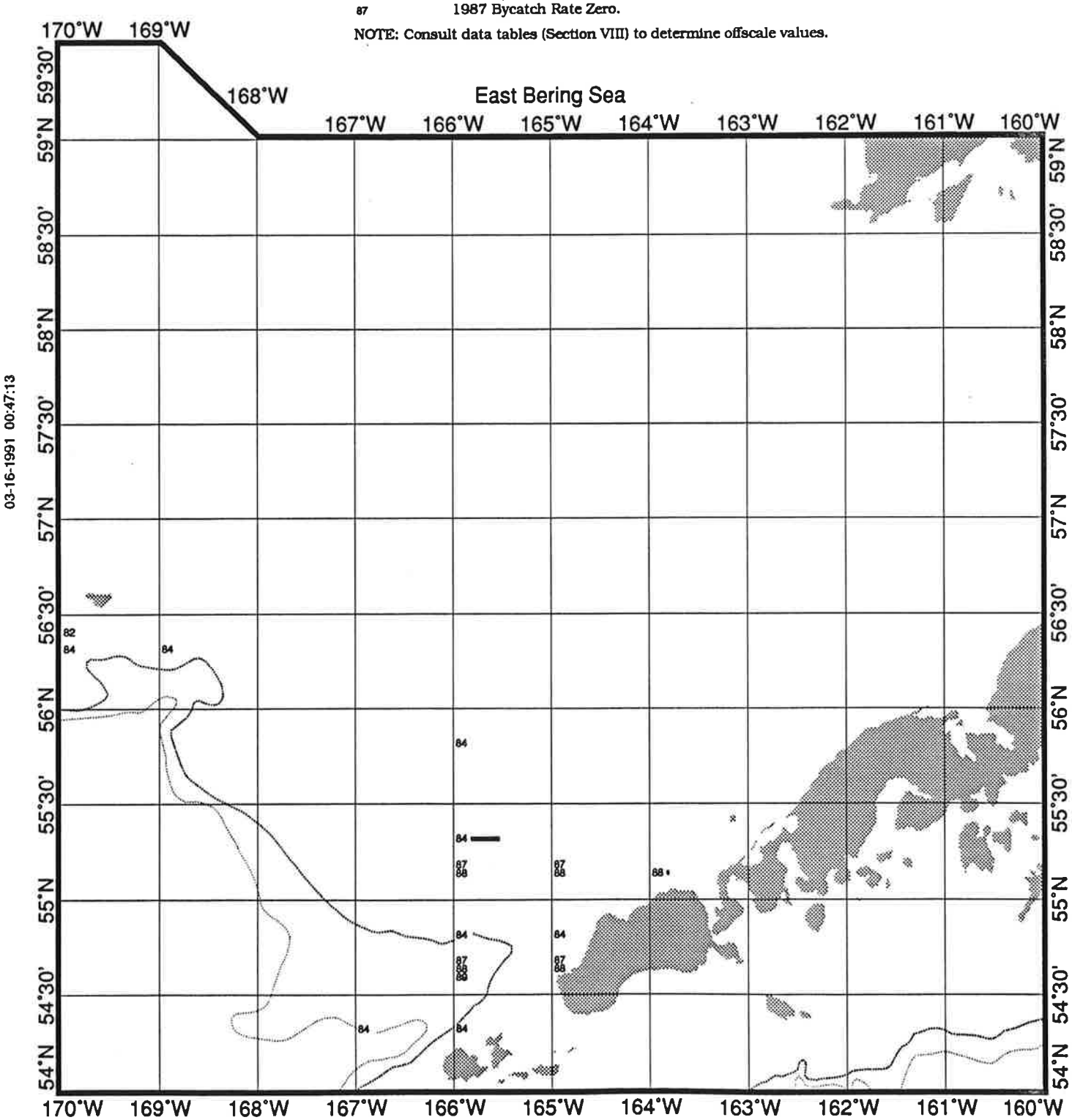
January
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

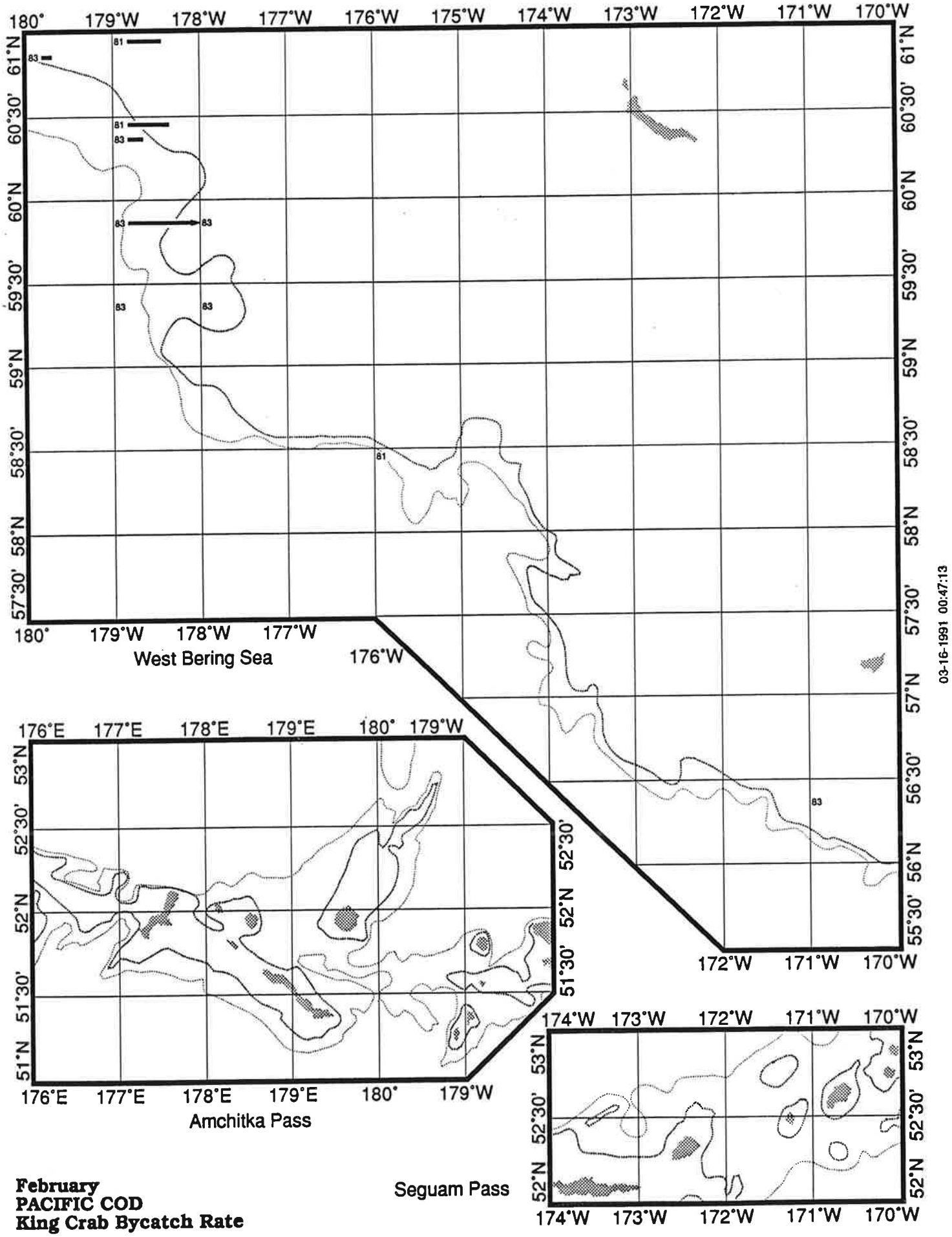
0 5 SCALE: Individuals per Metric Ton.

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.



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



February
PACIFIC COD
King Crab Bycatch Rate

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

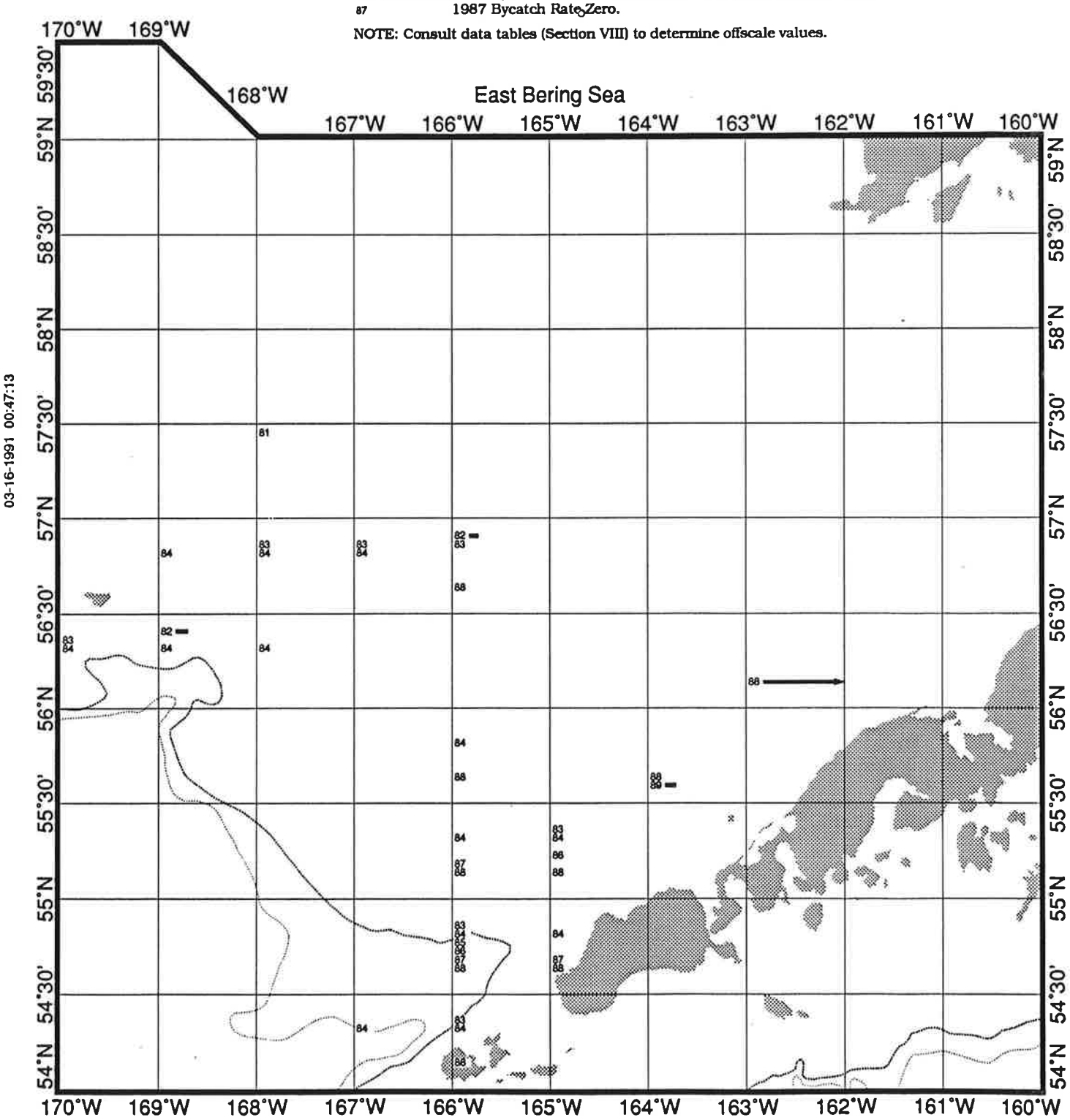
February
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

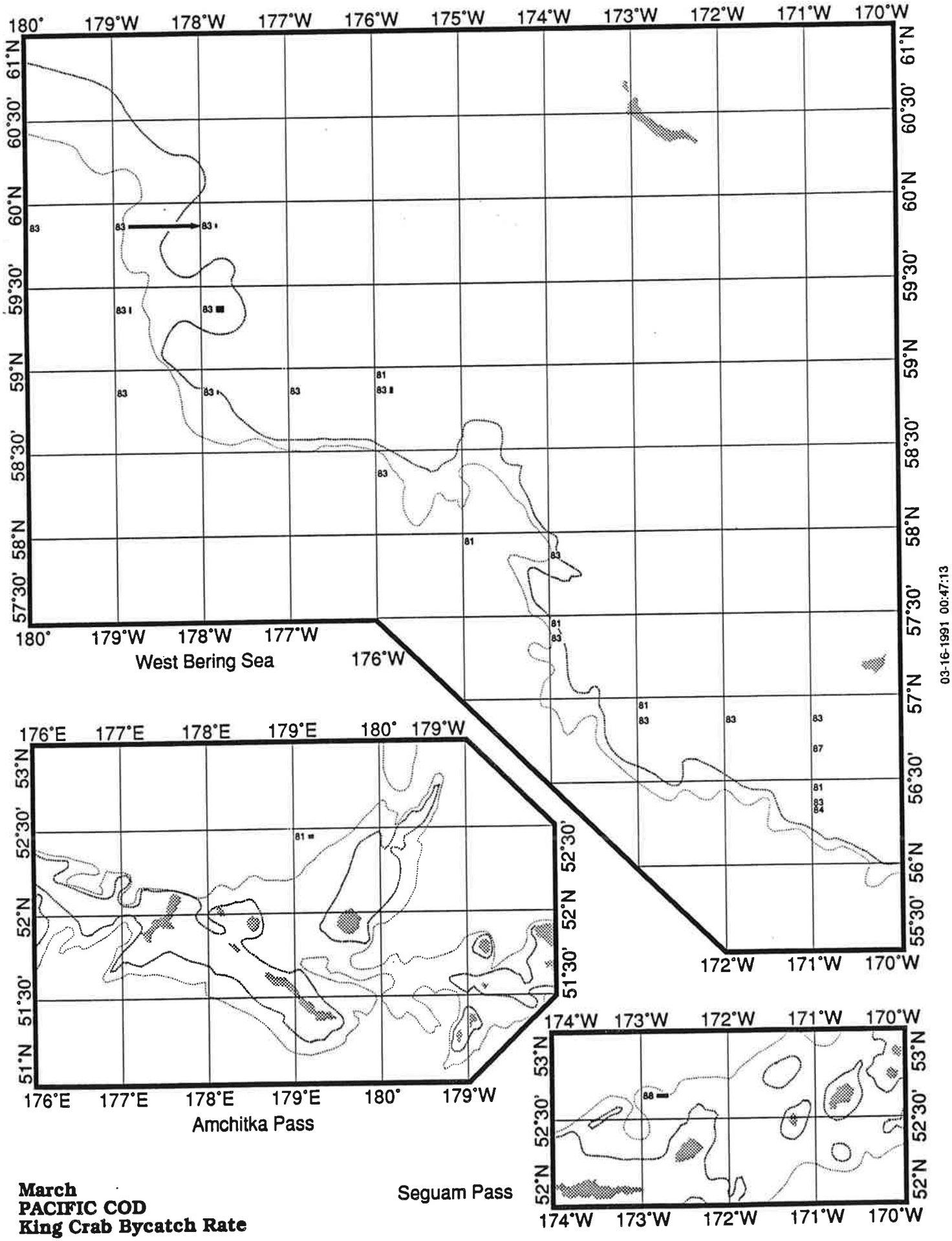
0 5 SCALE: Individuals per Metric Ton.

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.



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



March
PACIFIC COD
King Crab Bycatch Rate

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

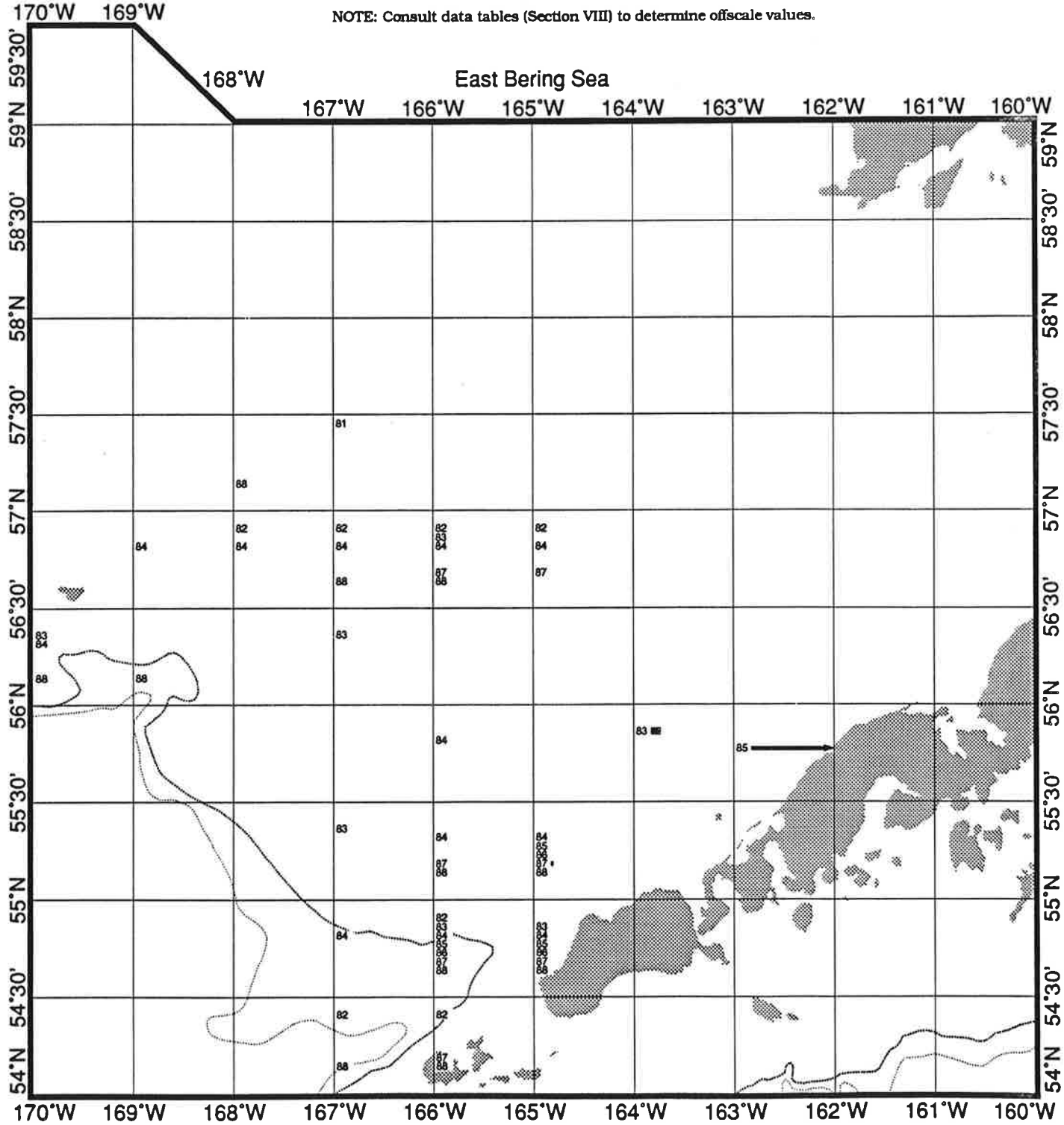
March
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

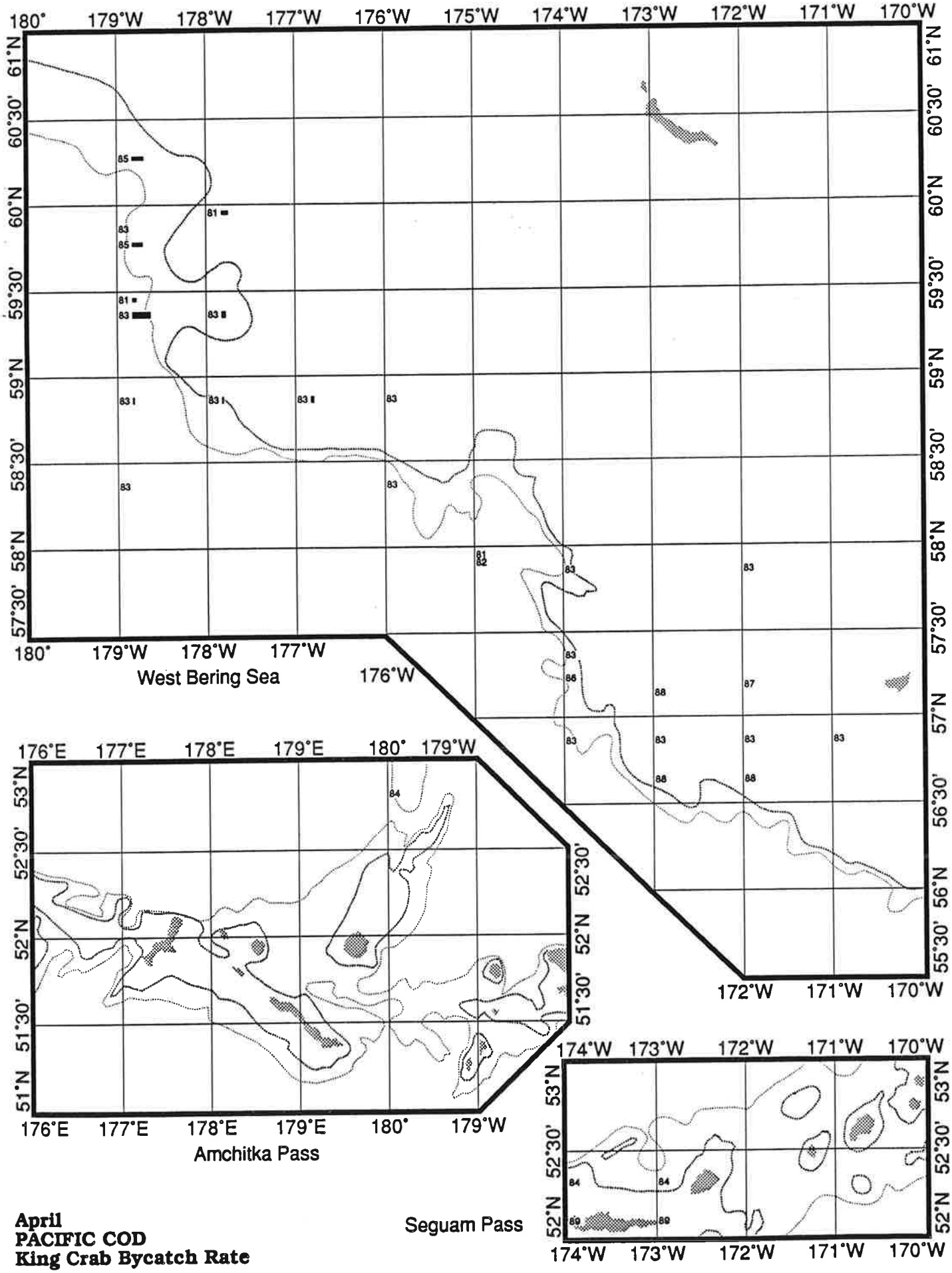
0 5 SCALE: Individuals per Metric Ton.

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.



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



April
PACIFIC COD
King Crab Bycatch Rate

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

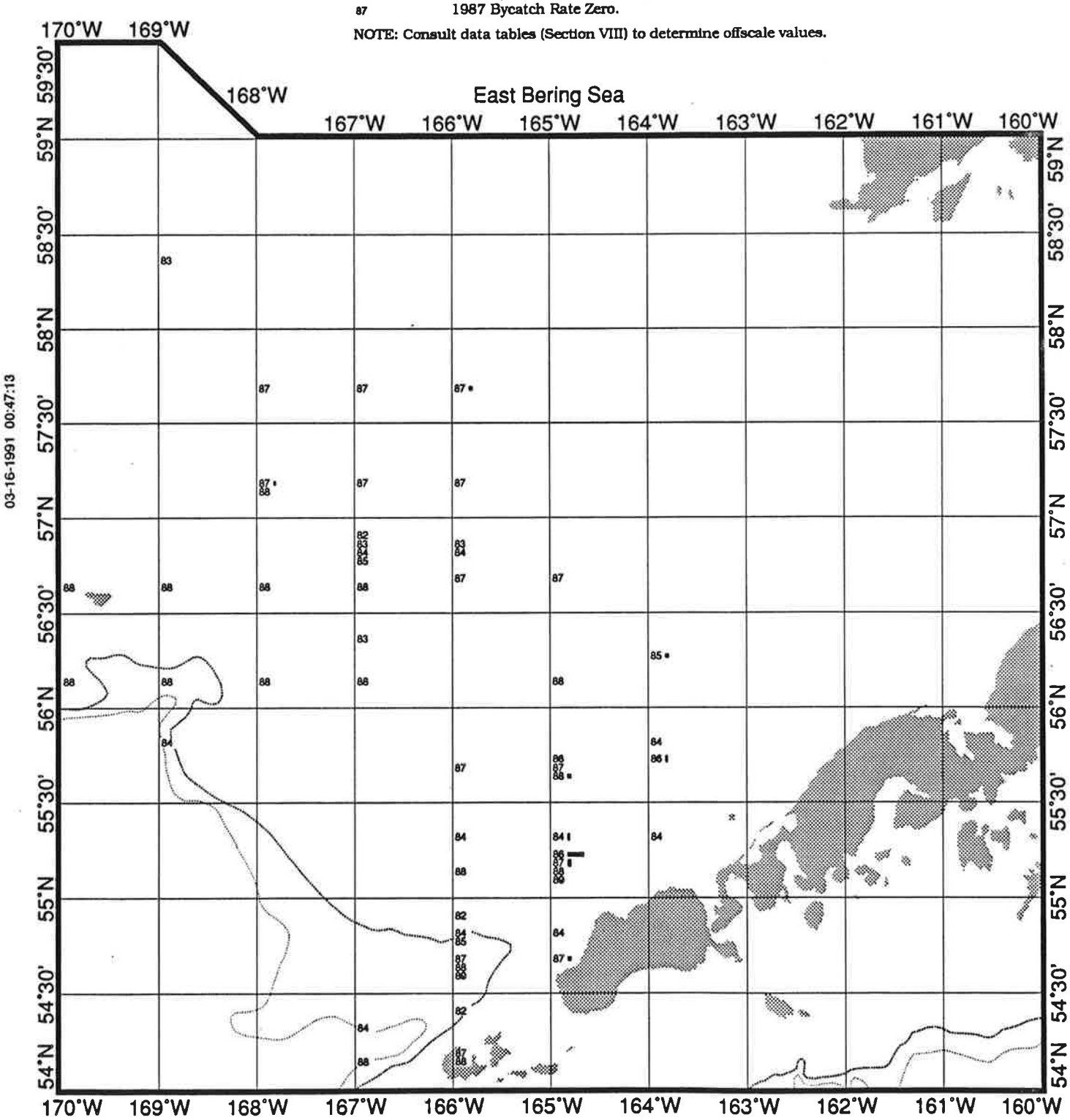
April
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

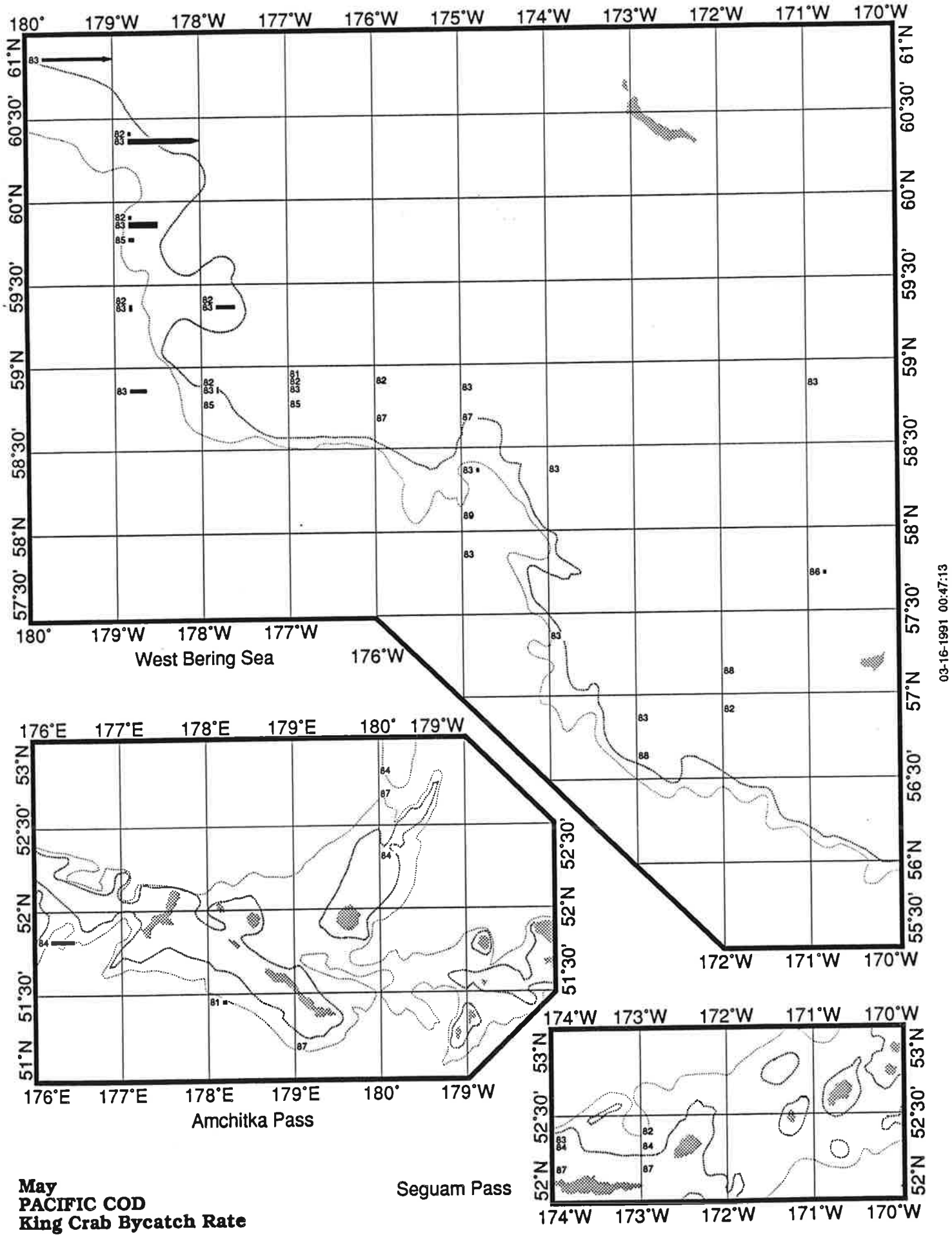
0 5 SCALE: Individuals per Metric Ton.

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.



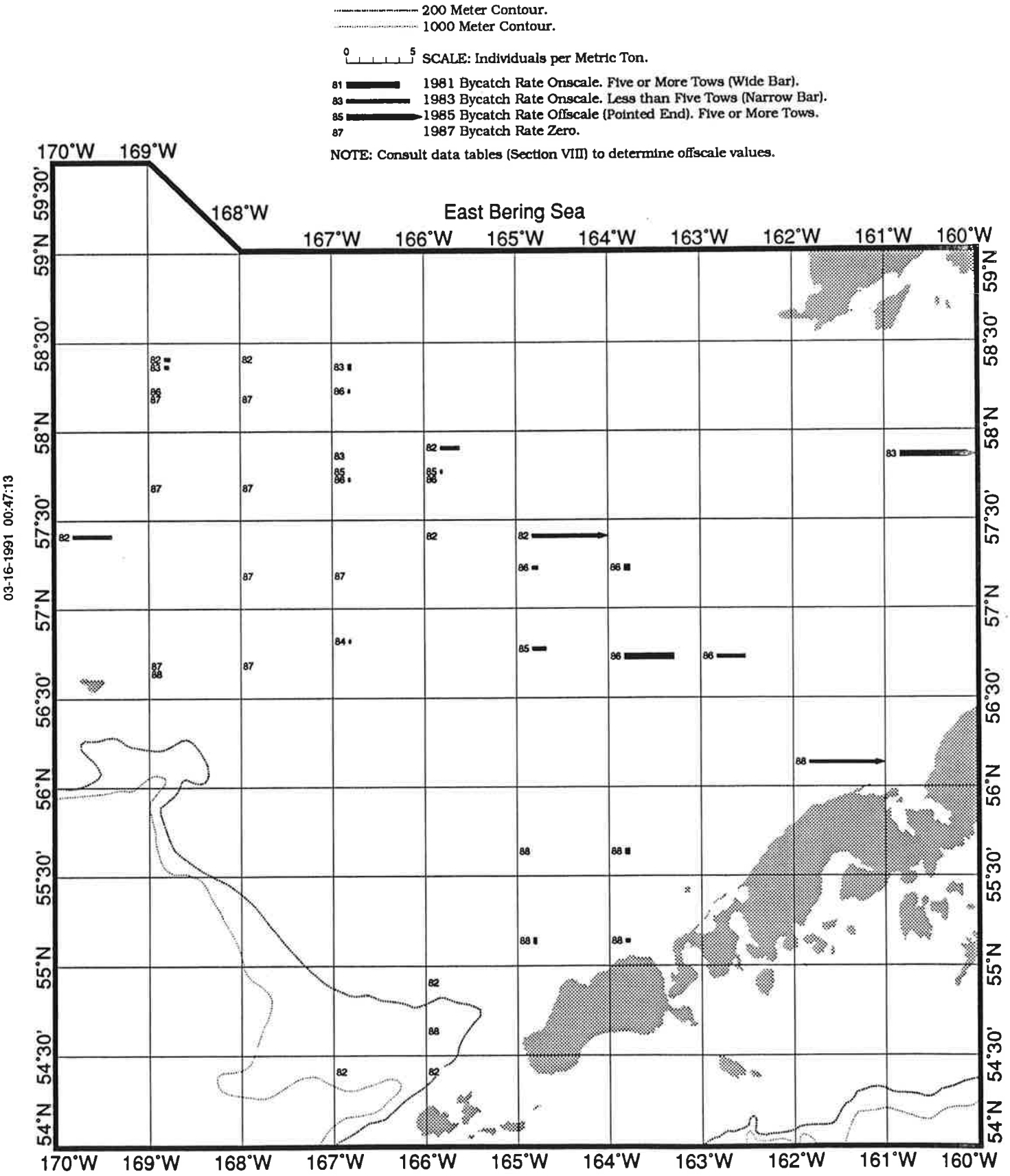
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



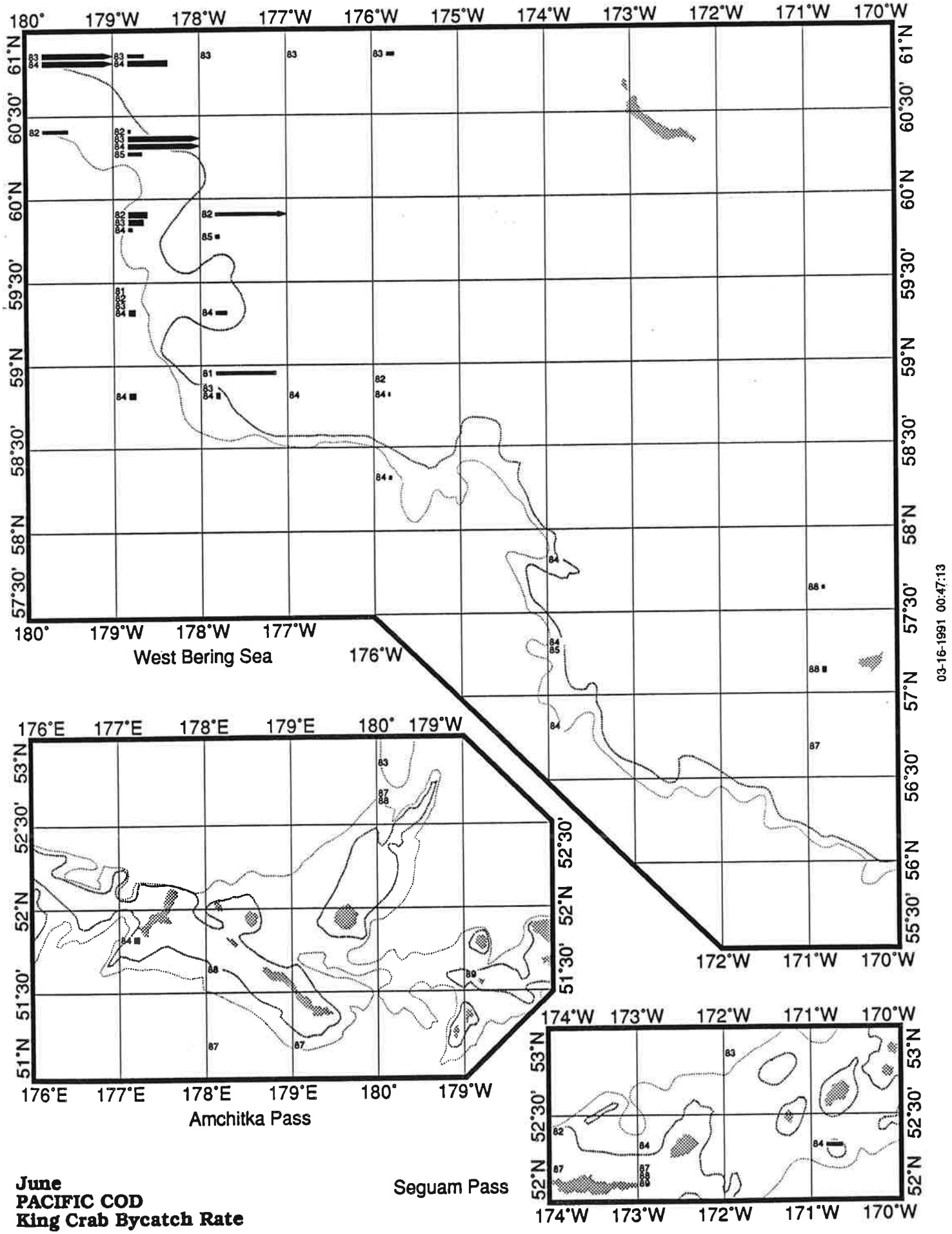
May
PACIFIC COD
King Crab Bycatch Rate

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

May
PACIFIC COD
King Crab Bycatch Rate



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



June
PACIFIC COD
King Crab Bycatch Rate

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

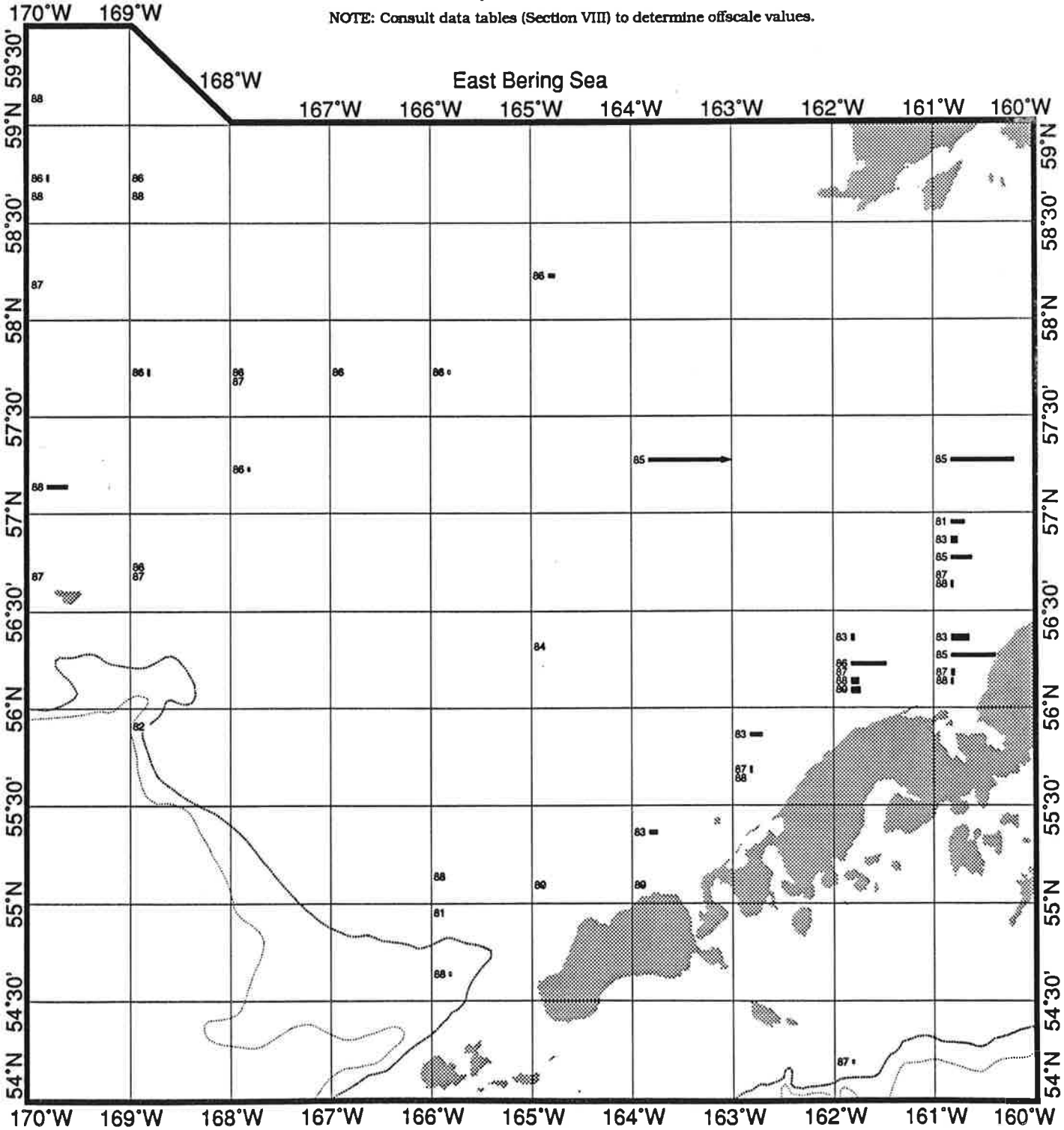
June
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

0 5 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.



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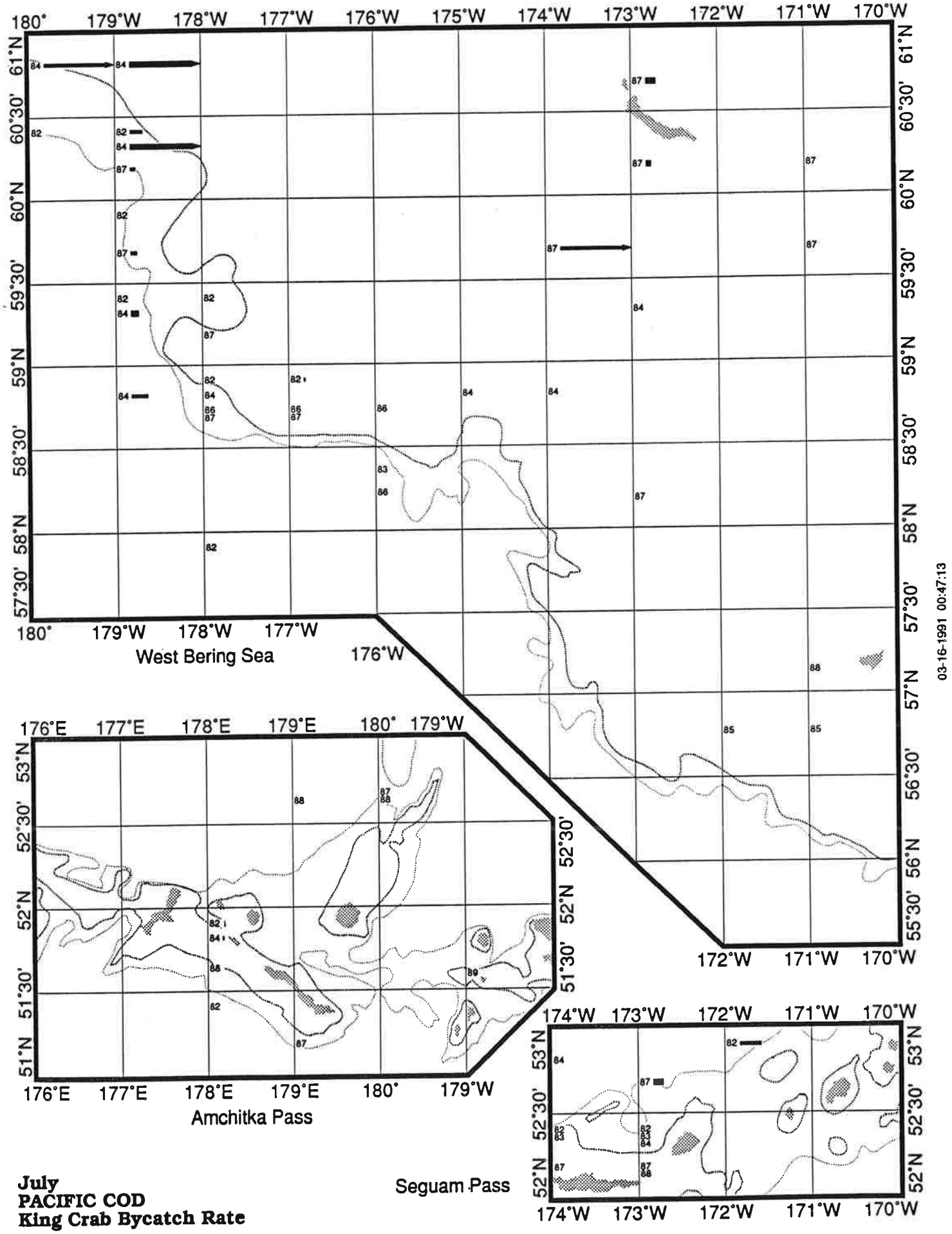
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



July
PACIFIC COD
King Crab Bycatch Rate

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

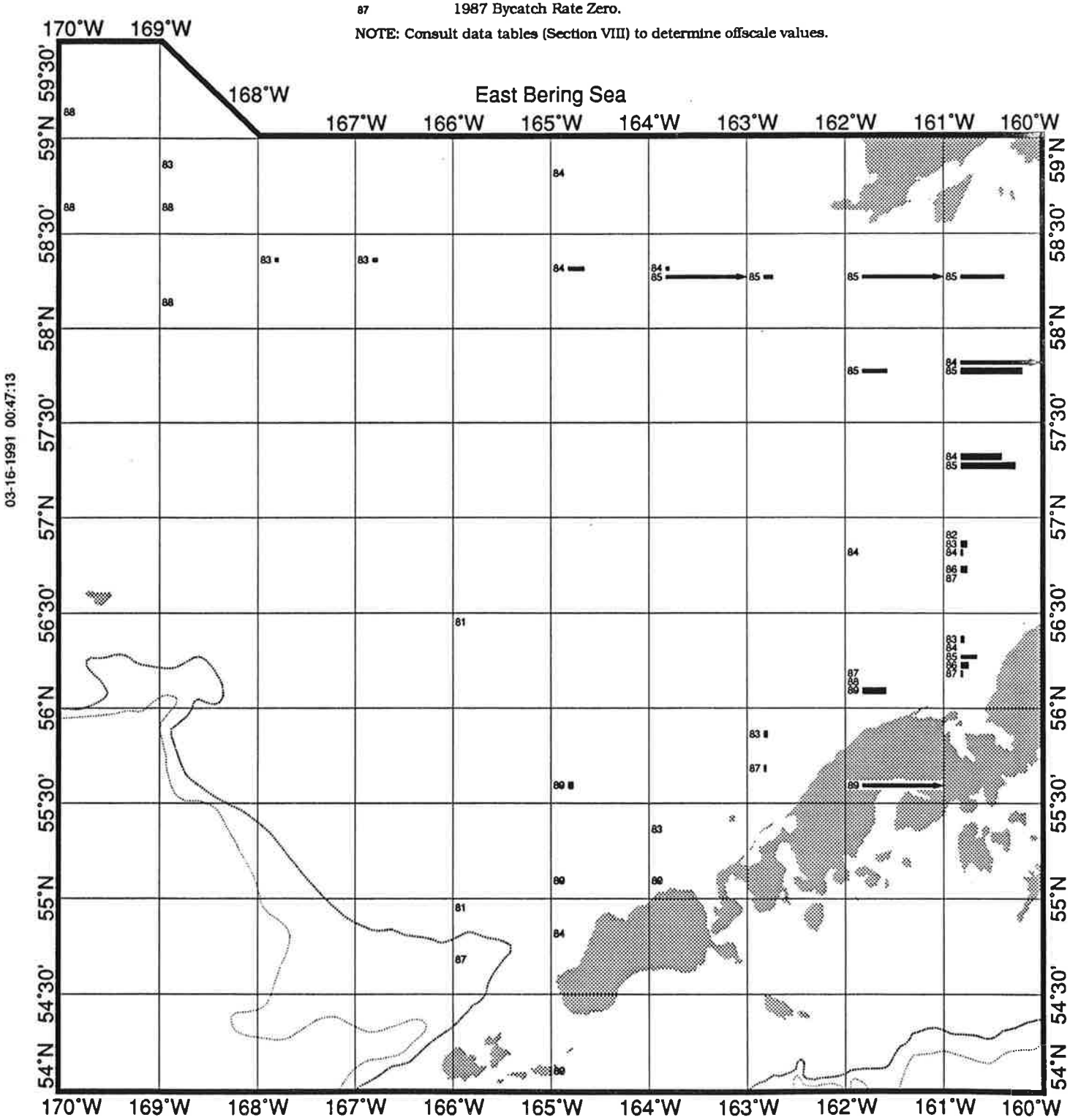
July
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

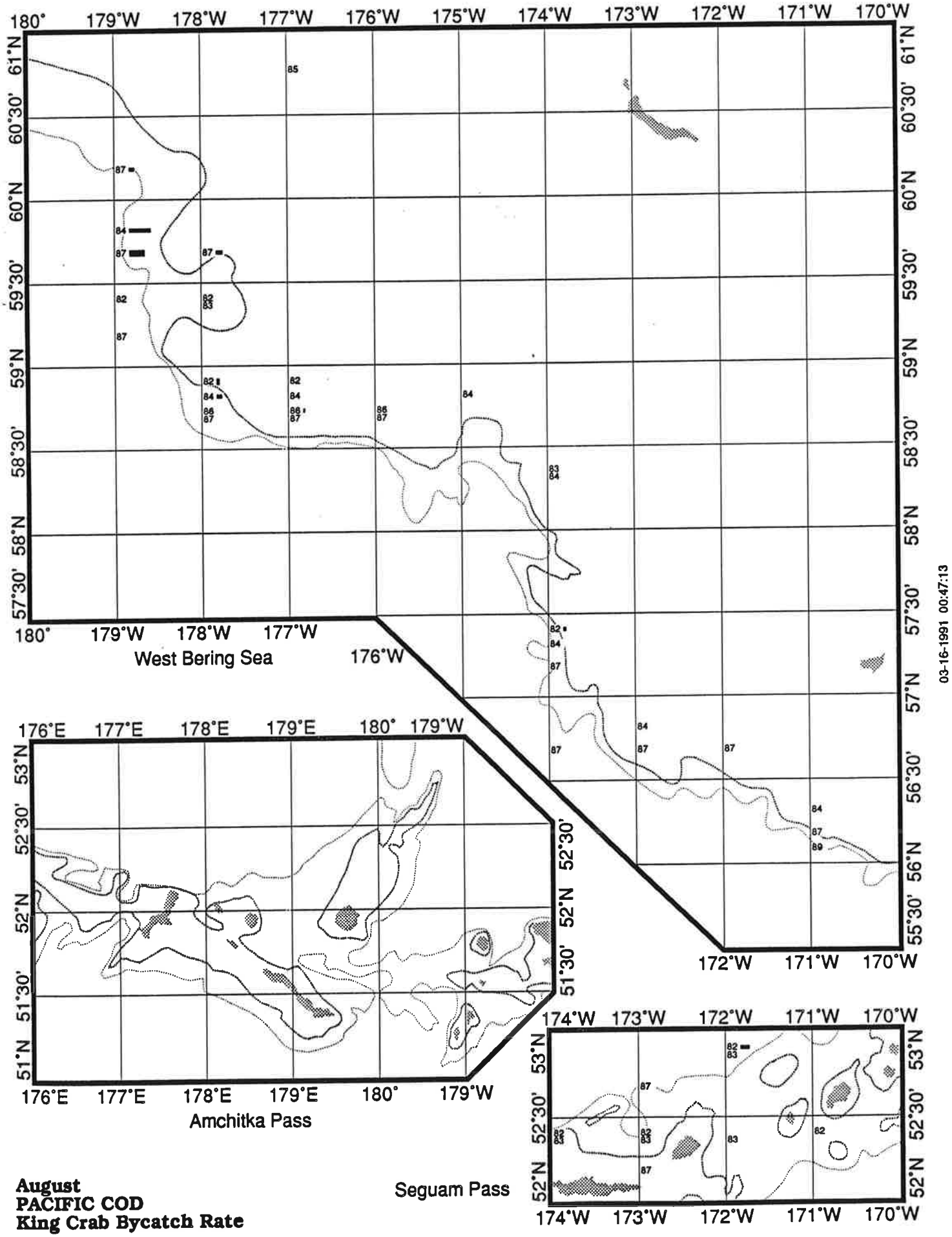
0 5 SCALE: Individuals per Metric Ton.

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.



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



August
PACIFIC COD
King Crab Bycatch Rate

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

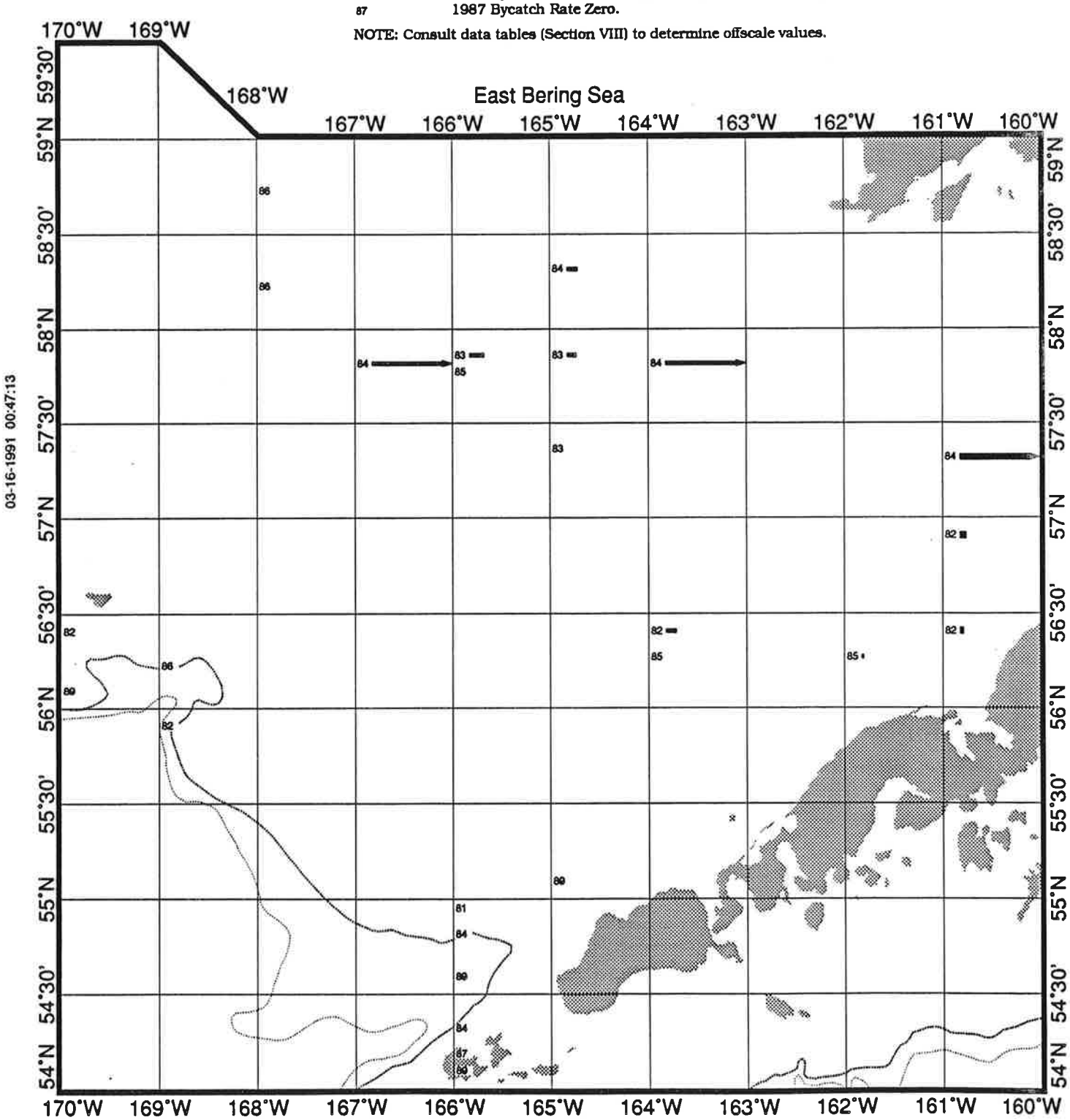
August
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

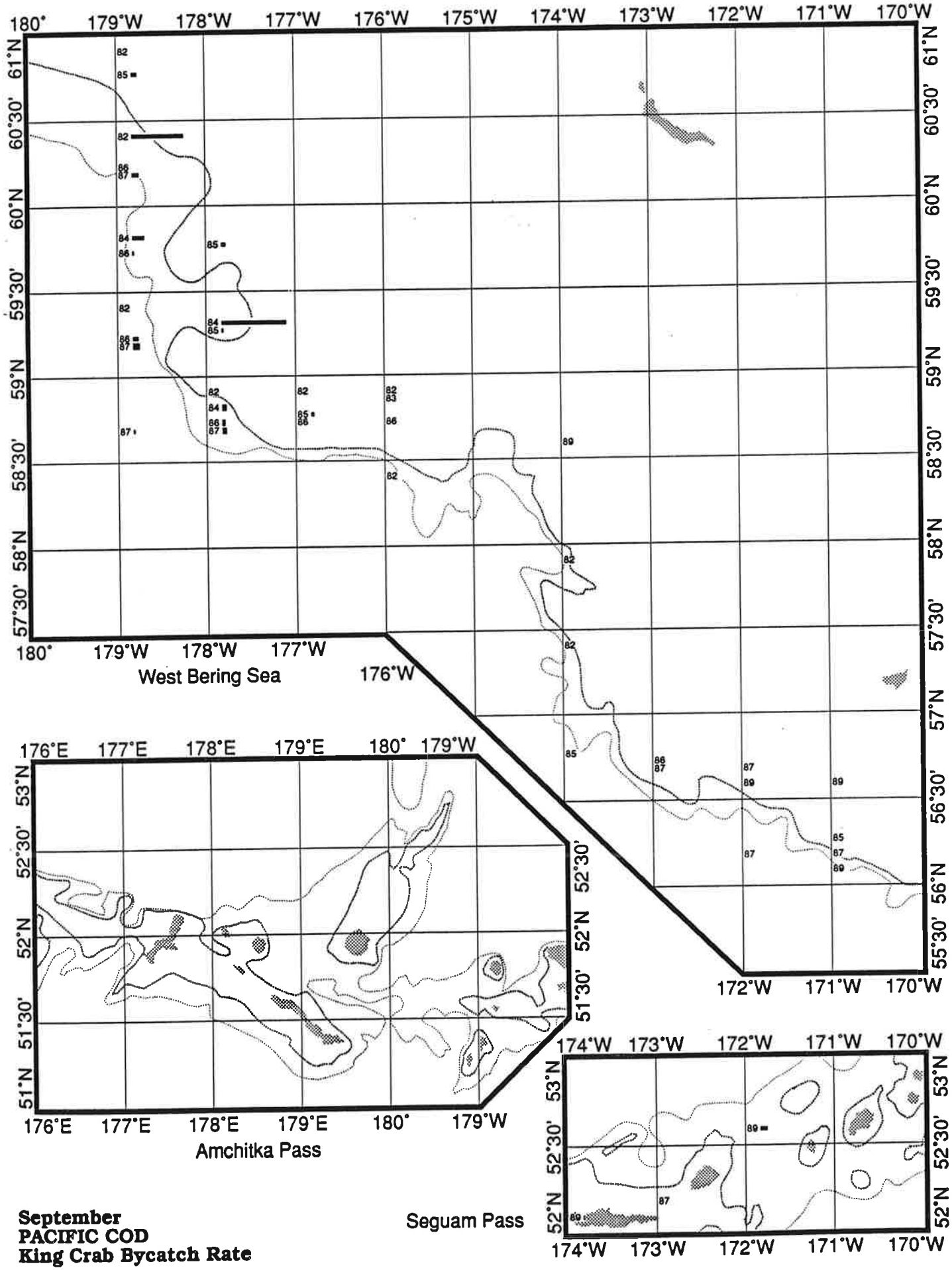
0 5 SCALE: Individuals per Metric Ton.

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.



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



September
PACIFIC COD
King Crab Bycatch Rate

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

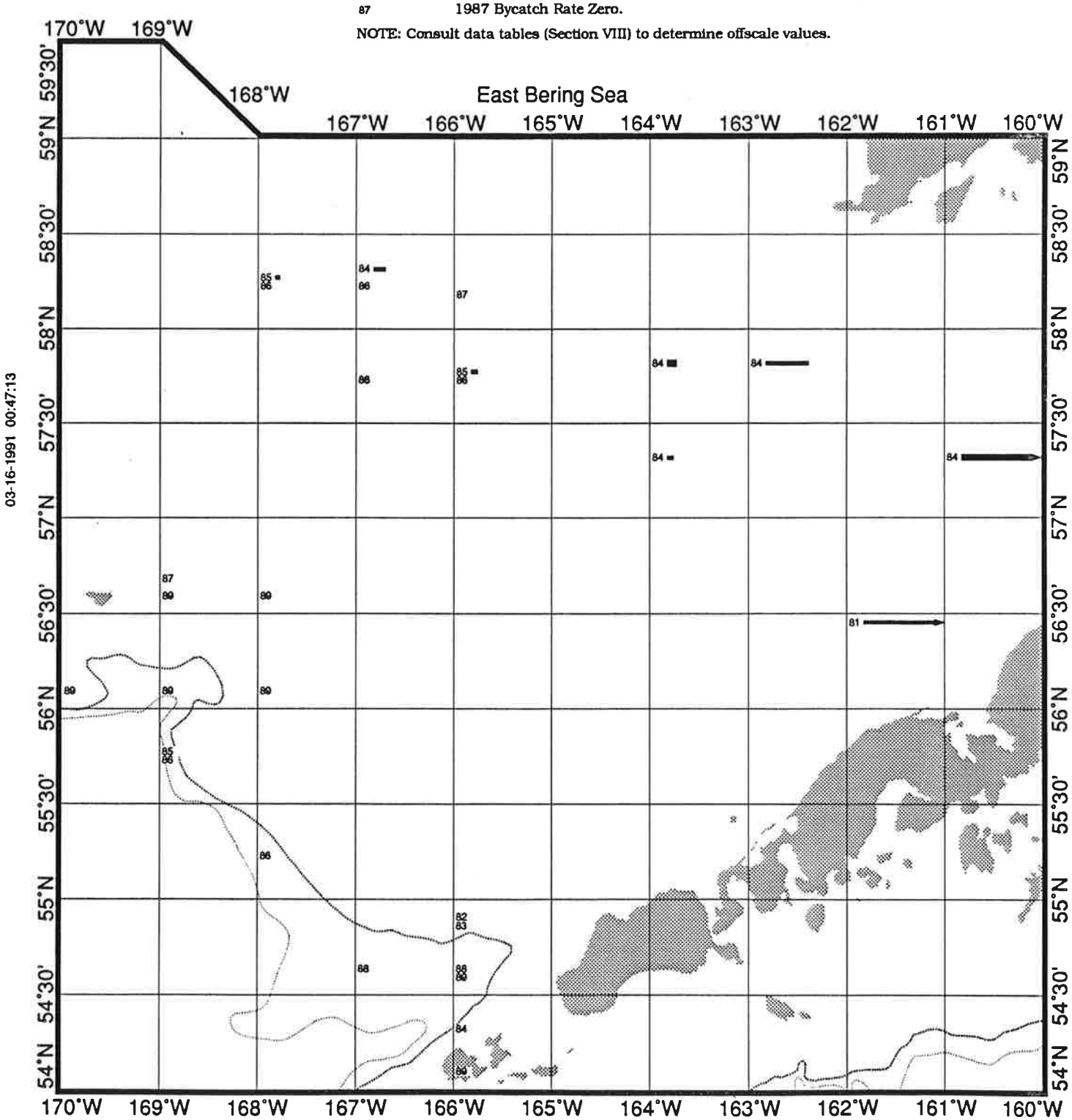
September
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

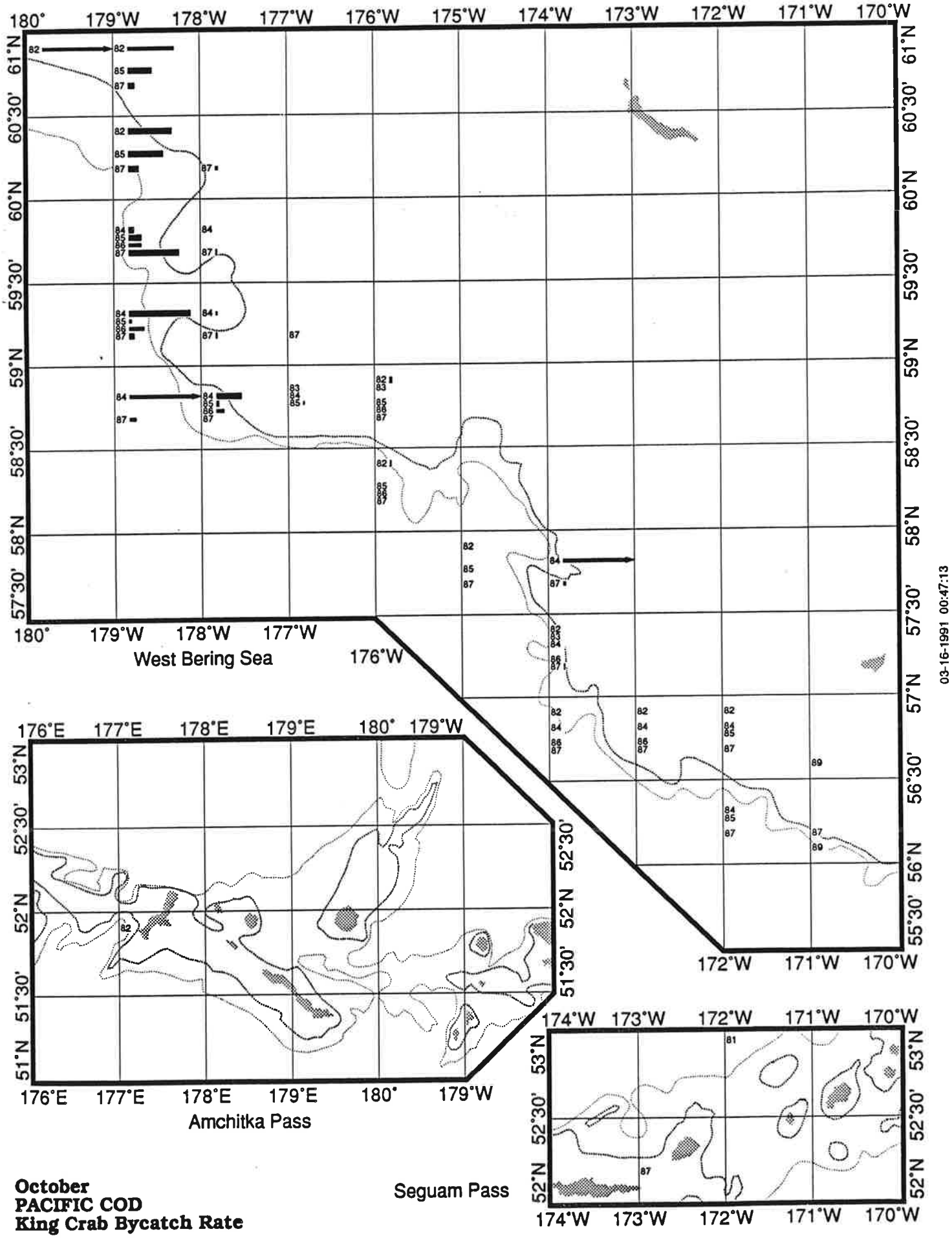
0 5 SCALE: Individuals per Metric Ton.

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.



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



October
PACIFIC COD
King Crab Bycatch Rate

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

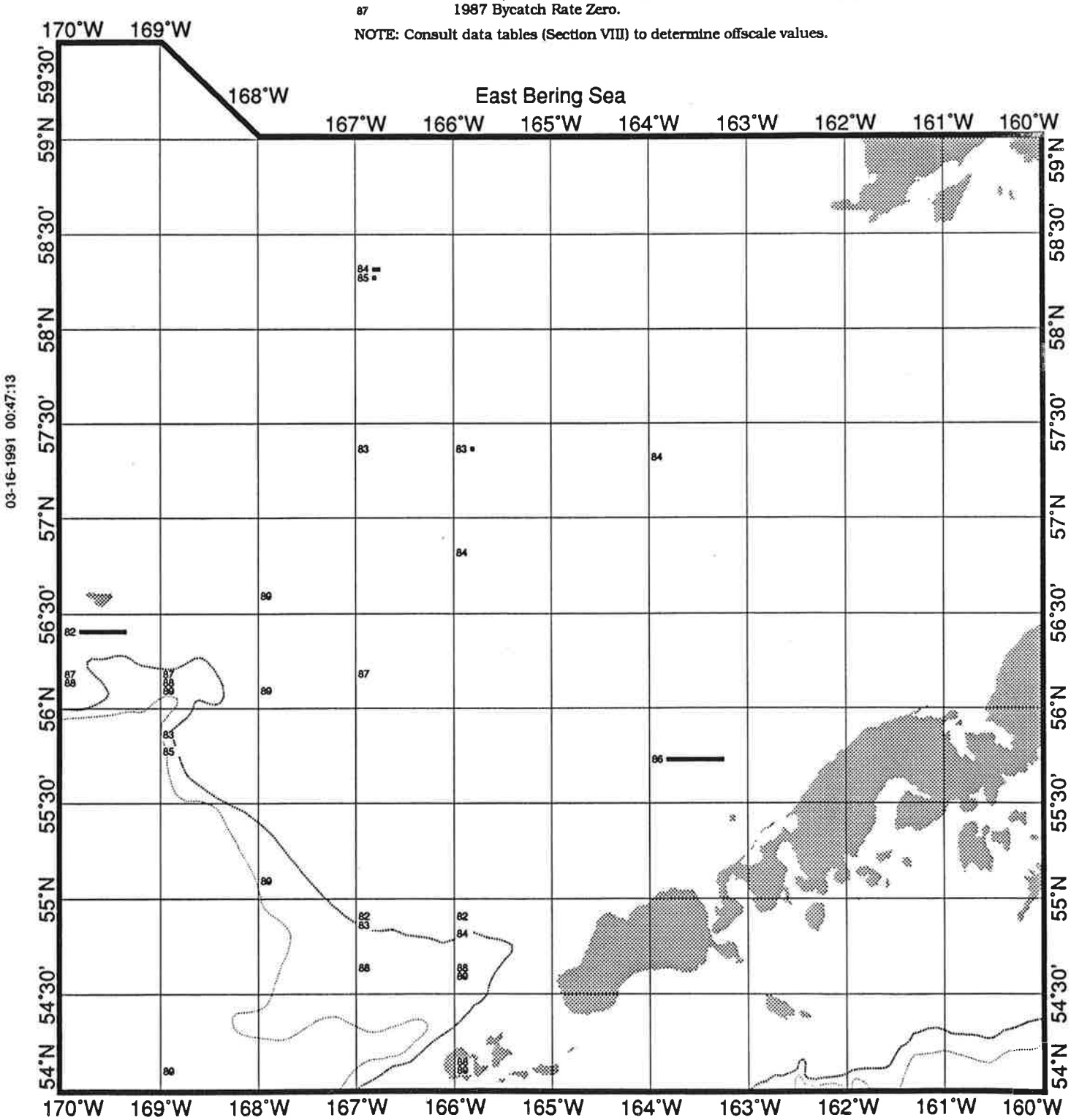
October
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

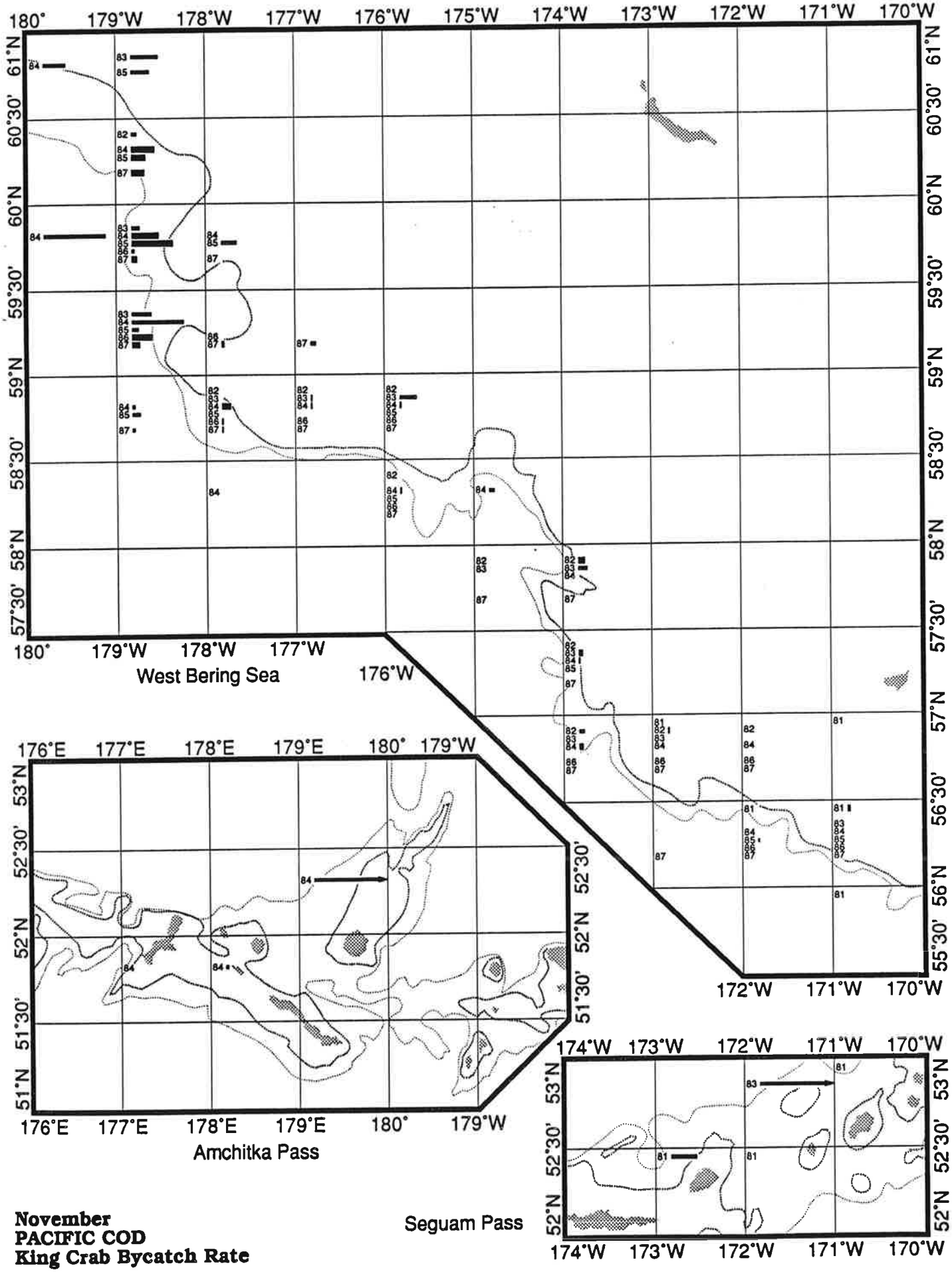
0 5 SCALE: Individuals per Metric Ton.

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.



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



November
PACIFIC COD
King Crab Bycatch Rate

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

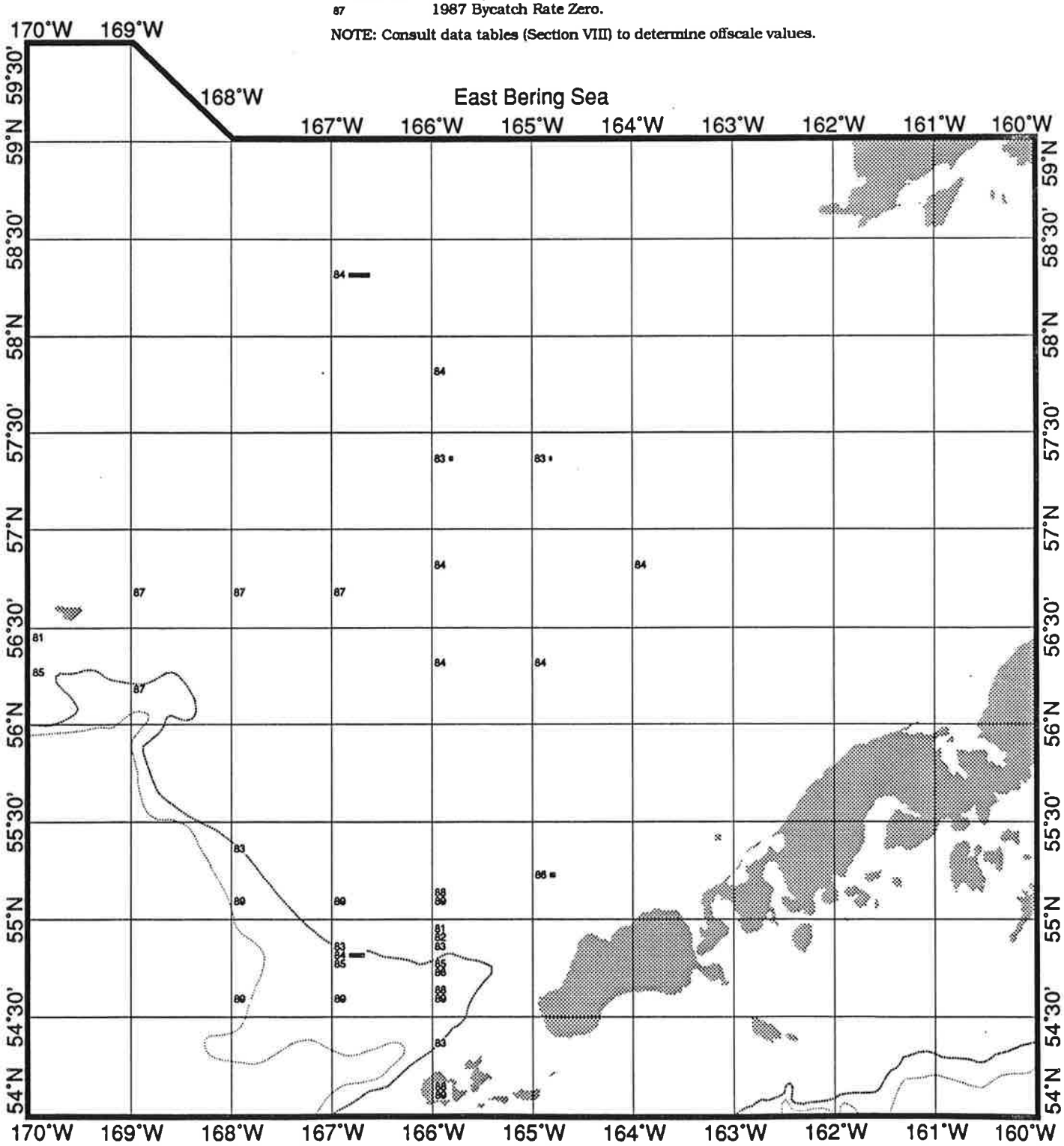
November
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

0 5 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.



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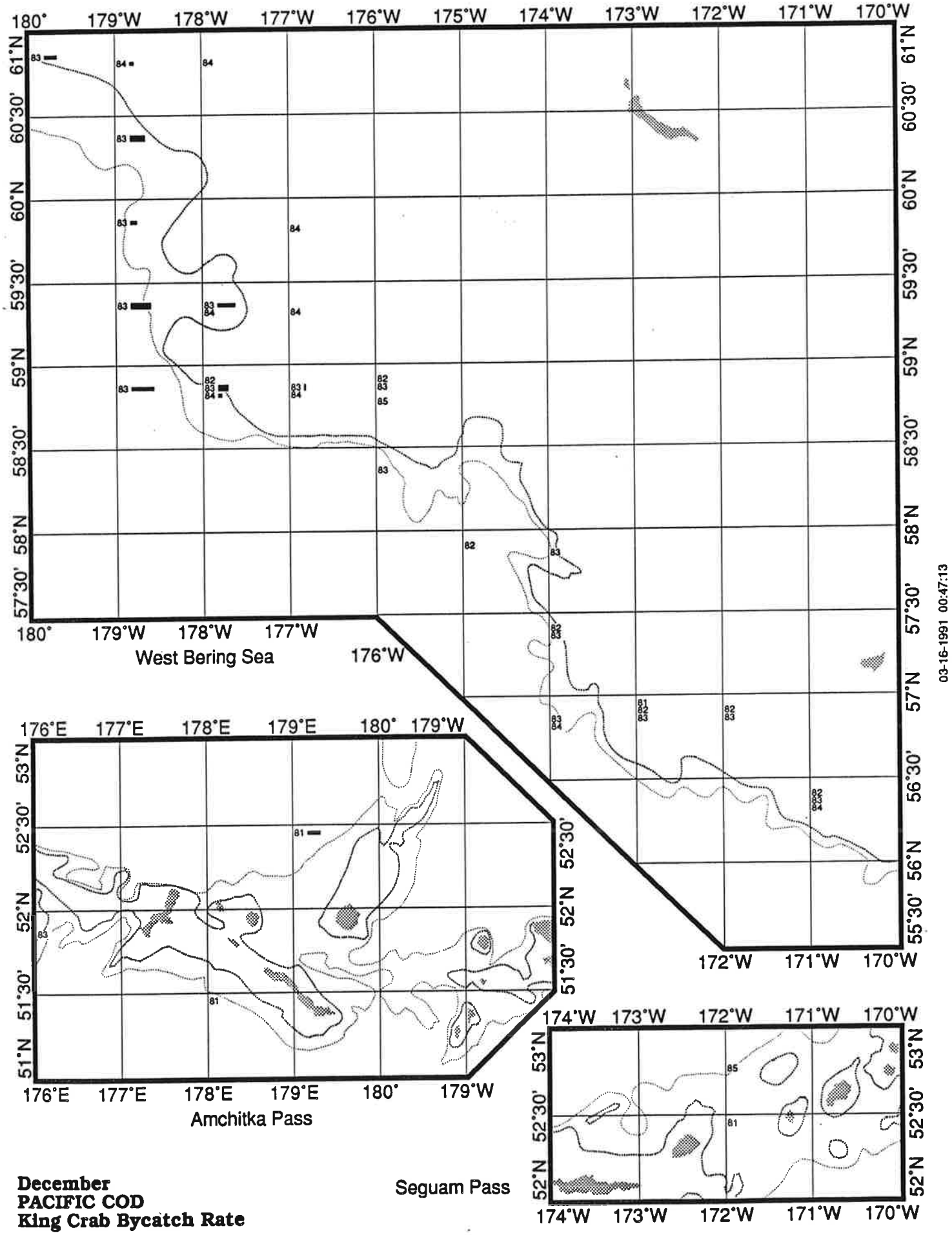
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



December
PACIFIC COD
King Crab Bycatch Rate

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

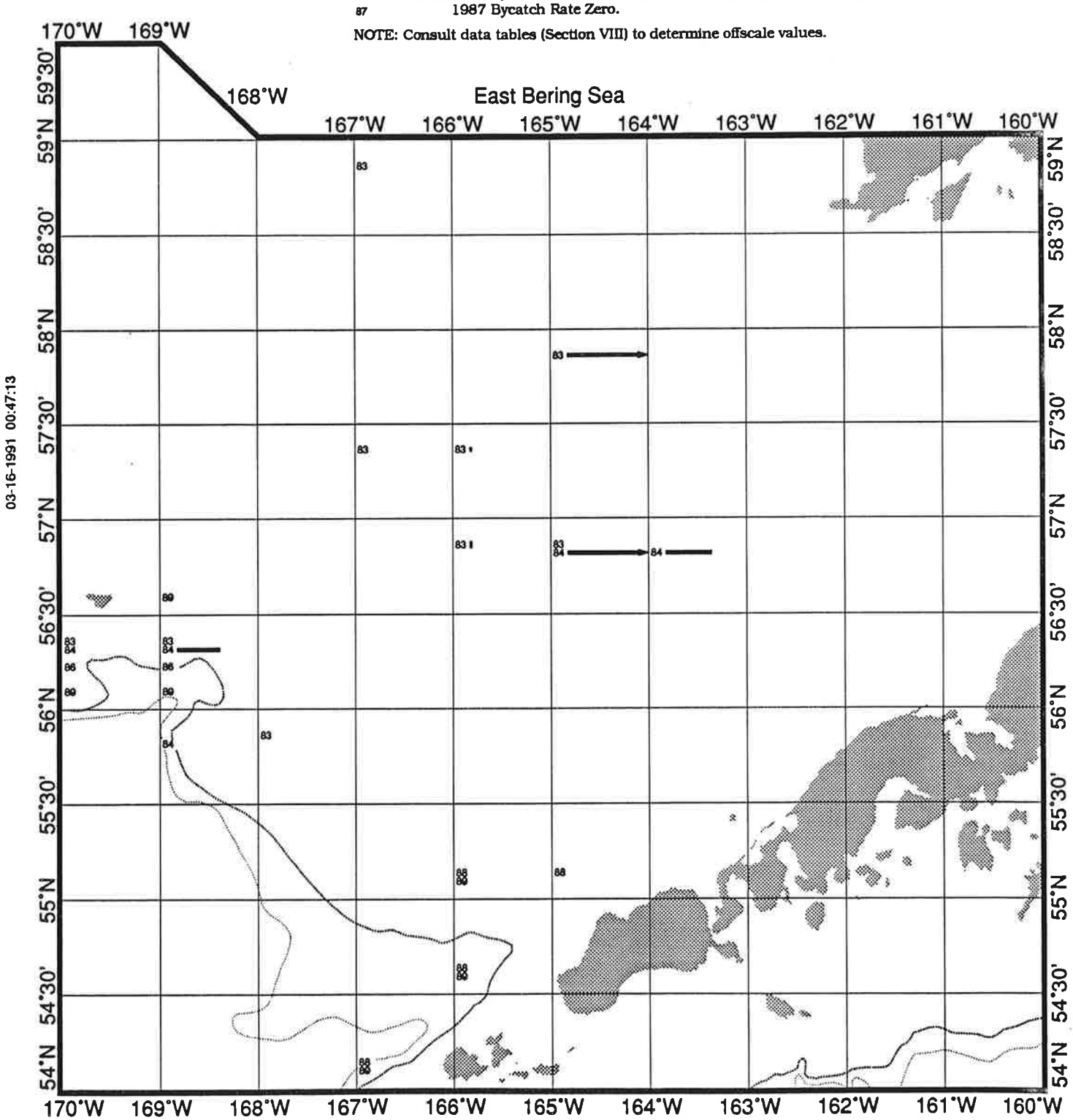
December
PACIFIC COD
King Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

0 5 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.

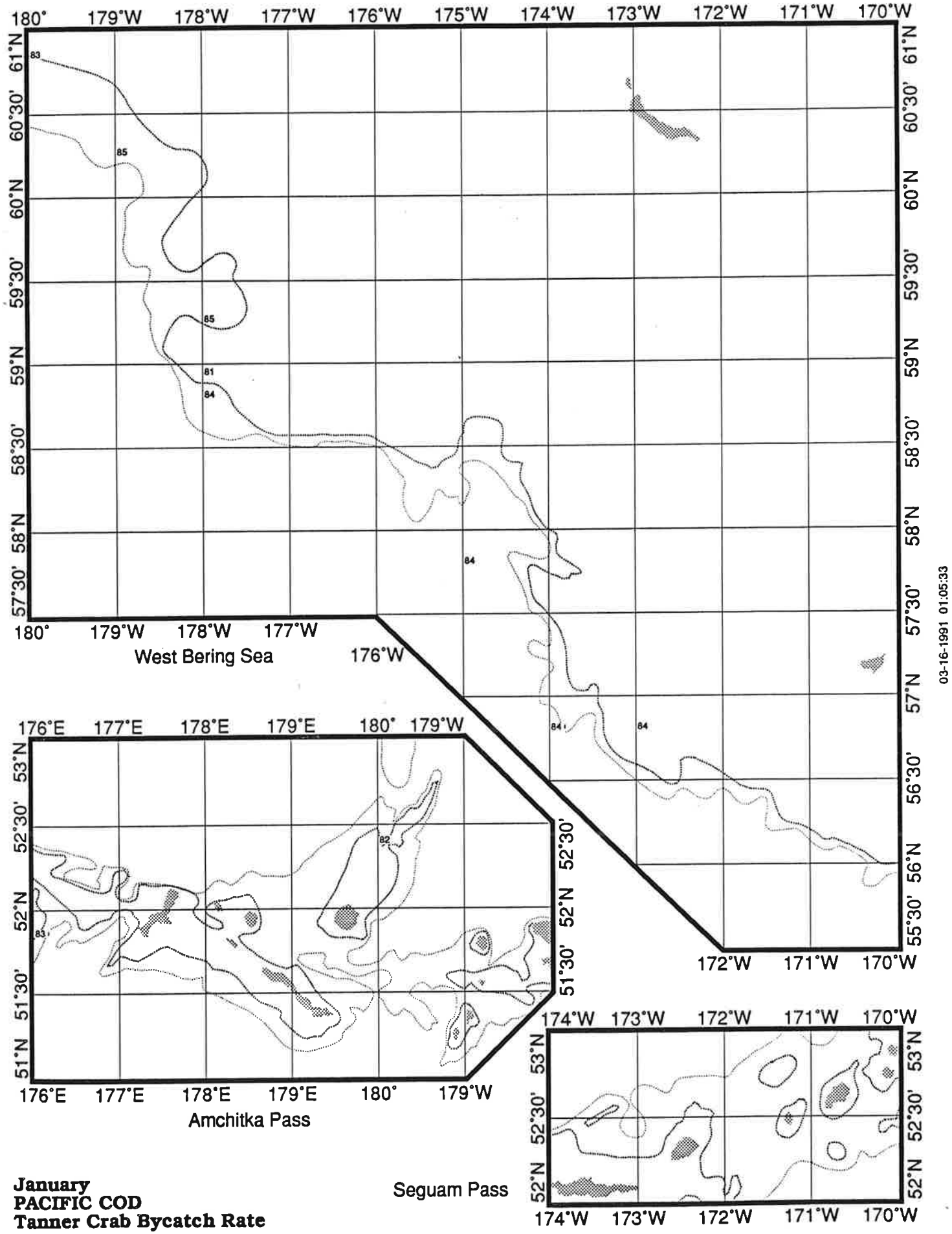
NOTE: Consult data tables (Section VIII) to determine offscale values.



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

SECTION VII

TANNER CRAB BYCATCH RATE CHARTS



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January
PACIFIC COD
Tanner Crab Bycatch Rate

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

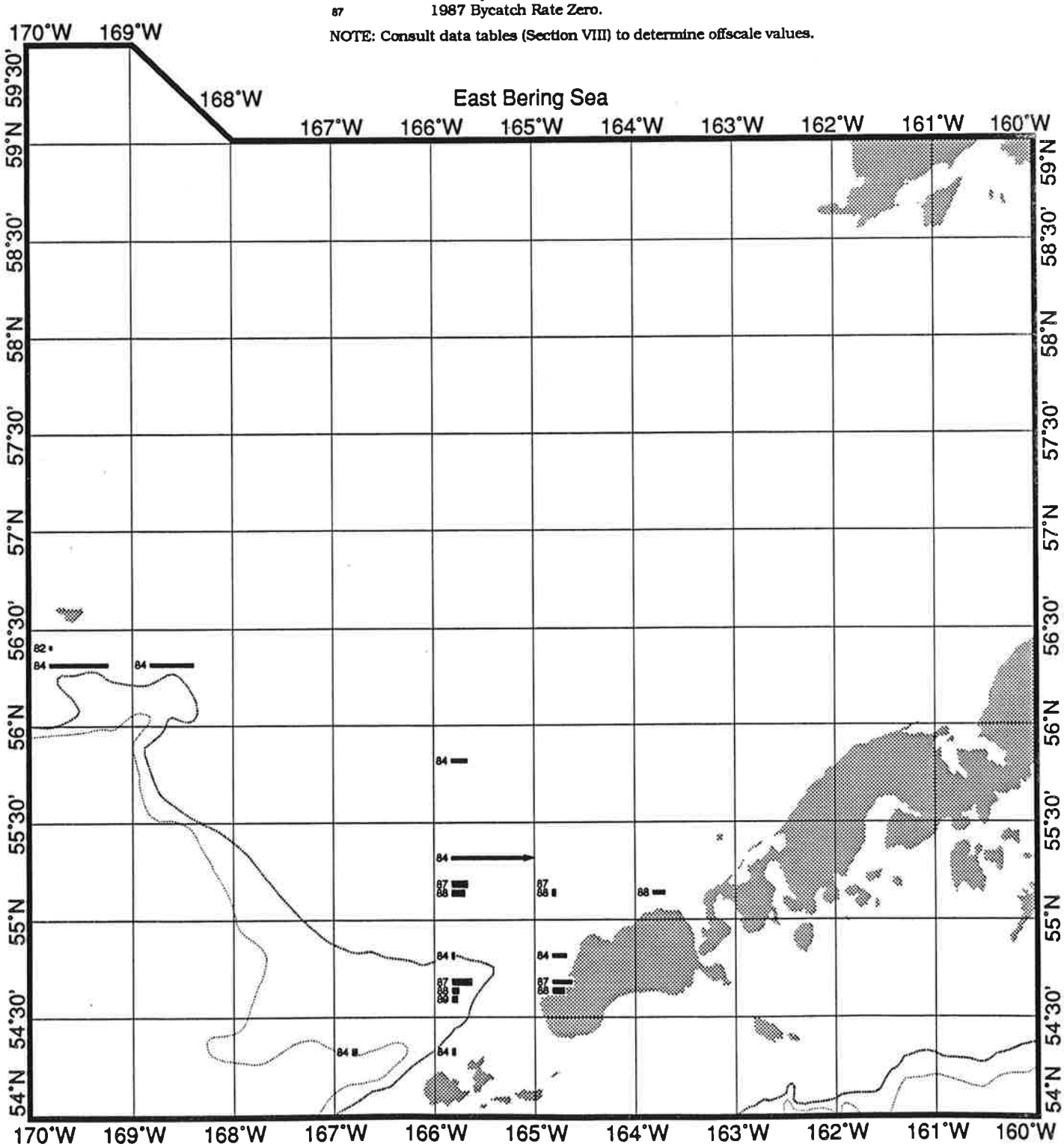
January
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

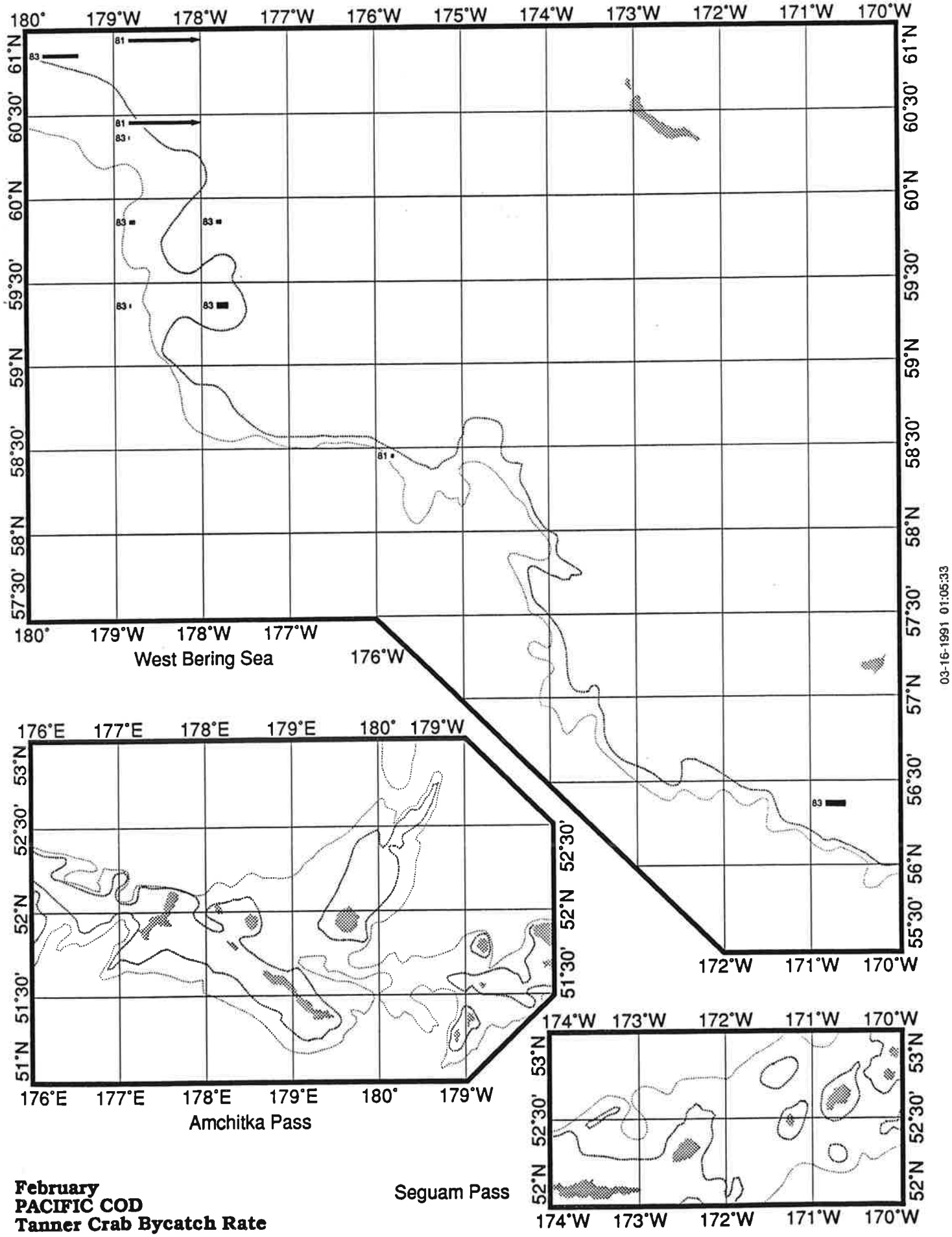
0 25 SCALE: Individuals per Metric Ton.

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.



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



February
PACIFIC COD
Tanner Crab Bycatch Rate

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

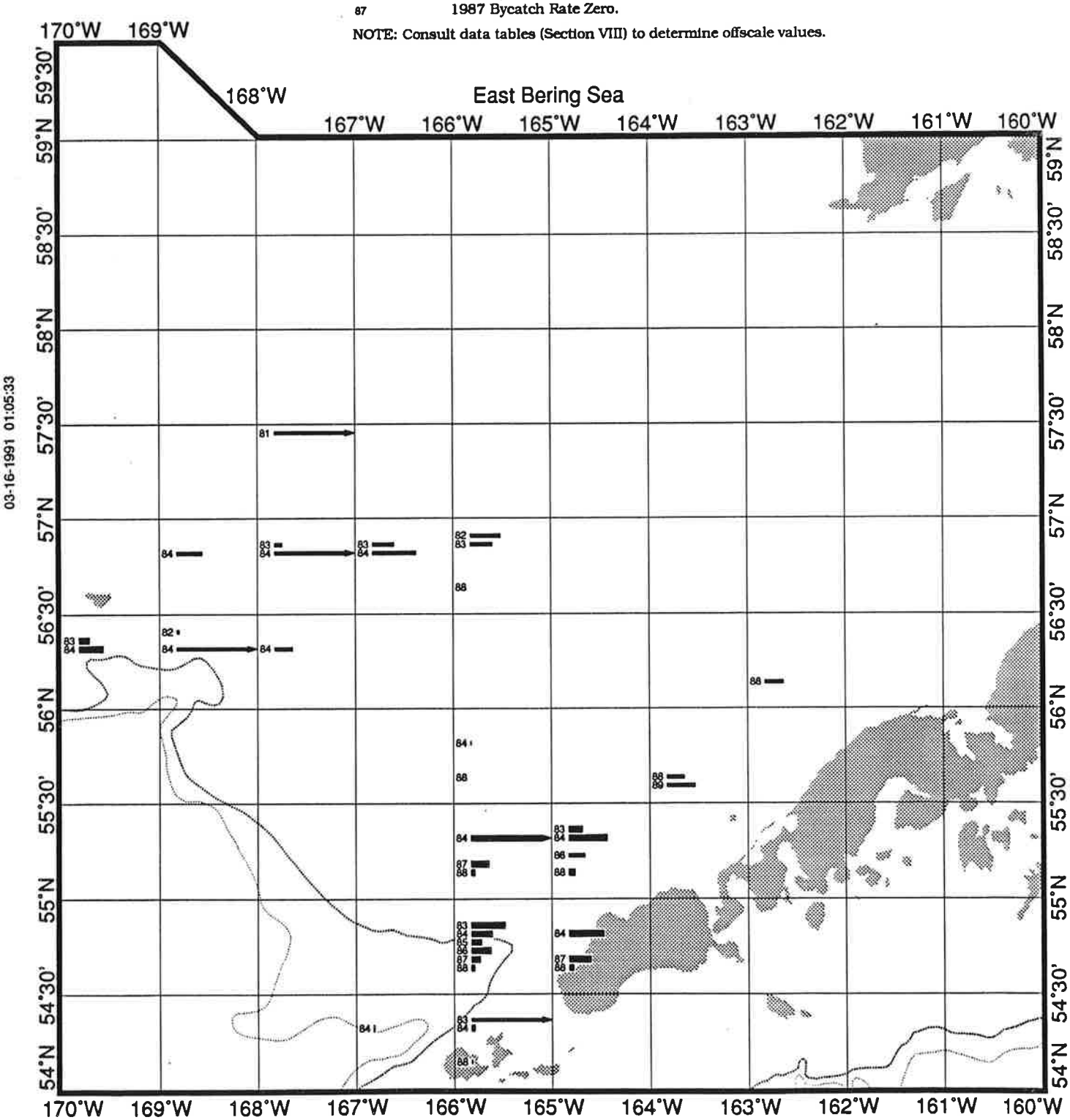
February
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

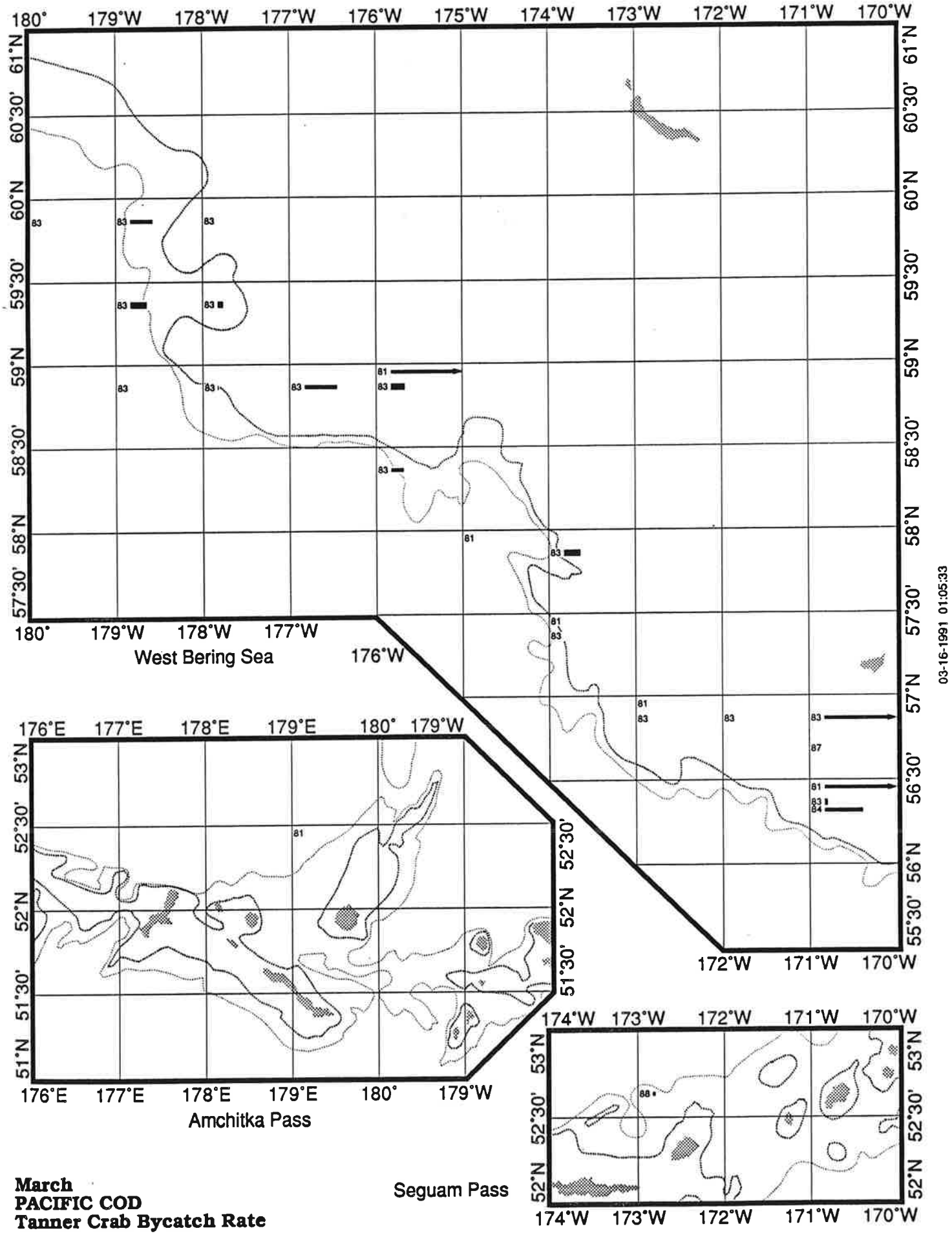
0 25 SCALE: Individuals per Metric Ton.

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.



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



March
PACIFIC COD
Tanner Crab Bycatch Rate

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

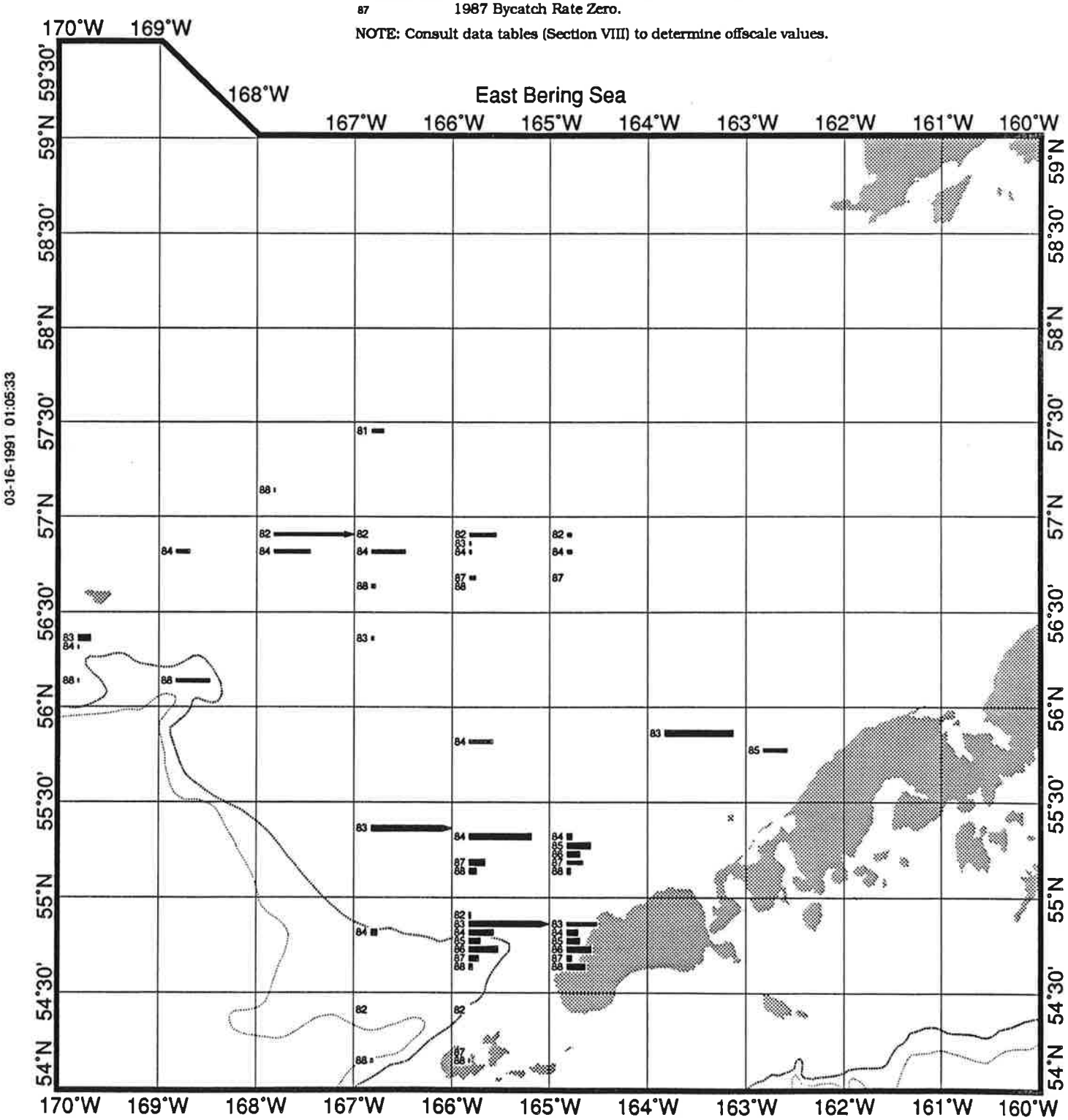
March
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

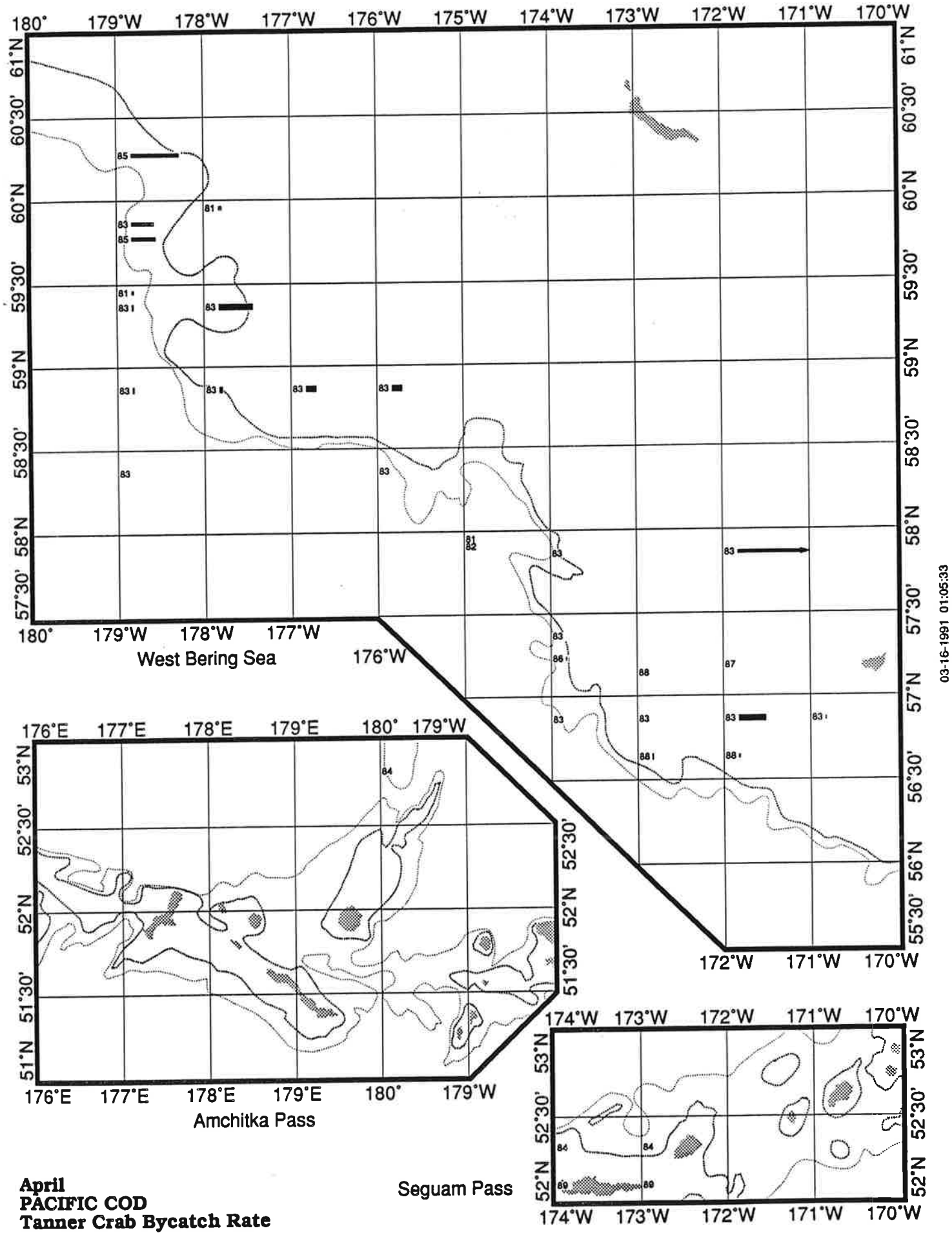
0 25 SCALE: Individuals per Metric Ton.

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.



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



April
PACIFIC COD
Tanner Crab Bycatch Rate

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

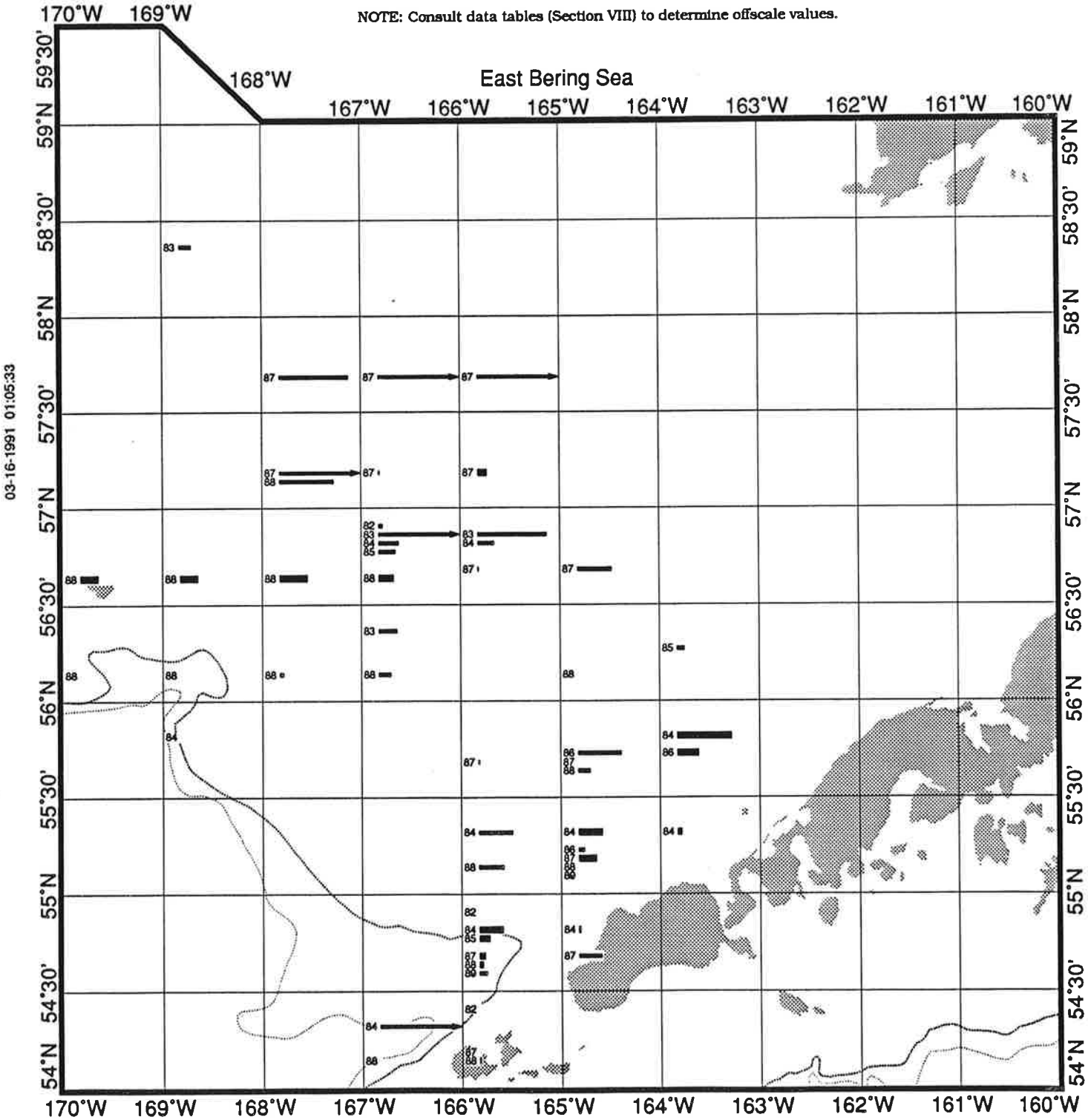
April
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

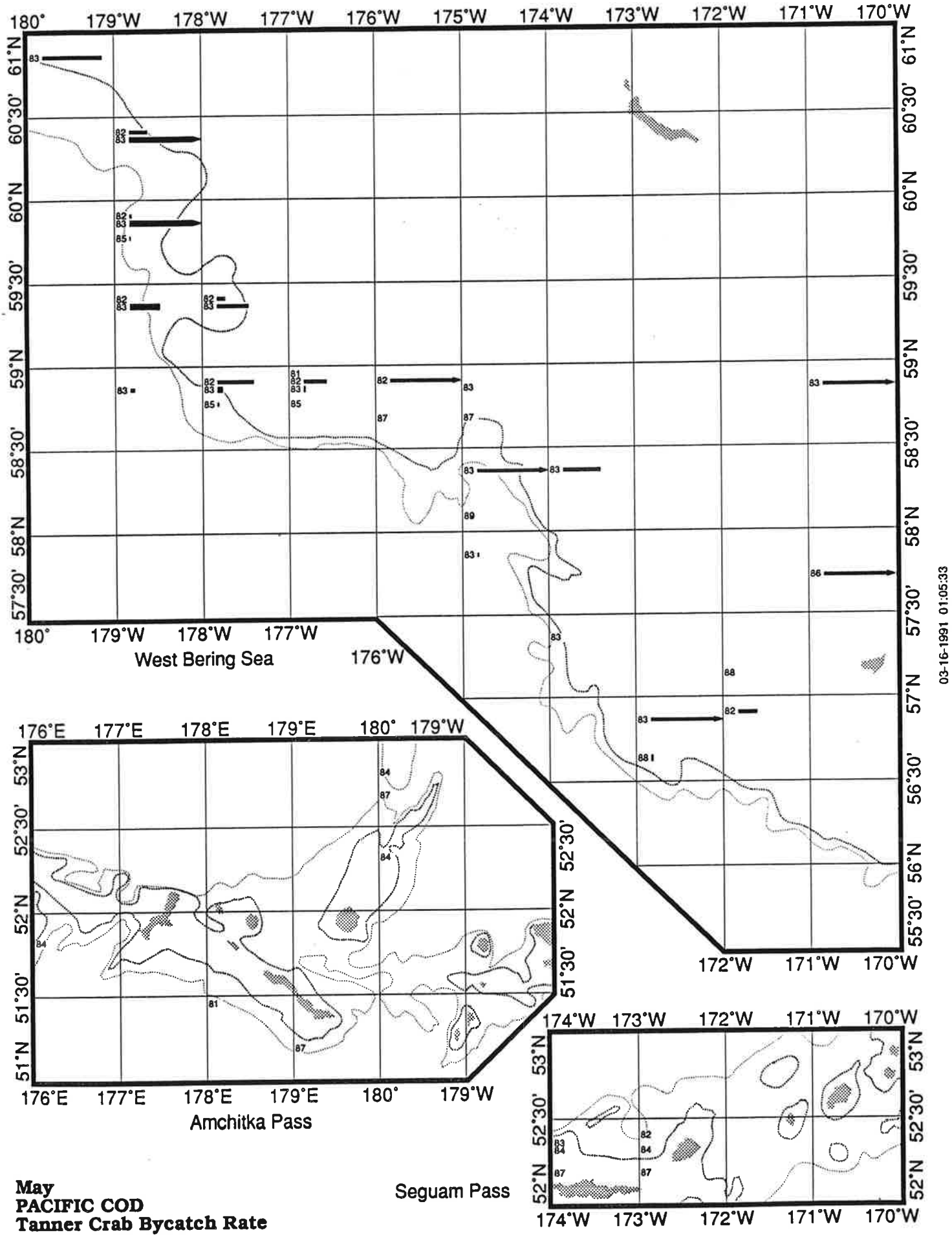
0 25 SCALE: Individuals per Metric Ton.

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.



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



May
PACIFIC COD
Tanner Crab Bycatch Rate

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

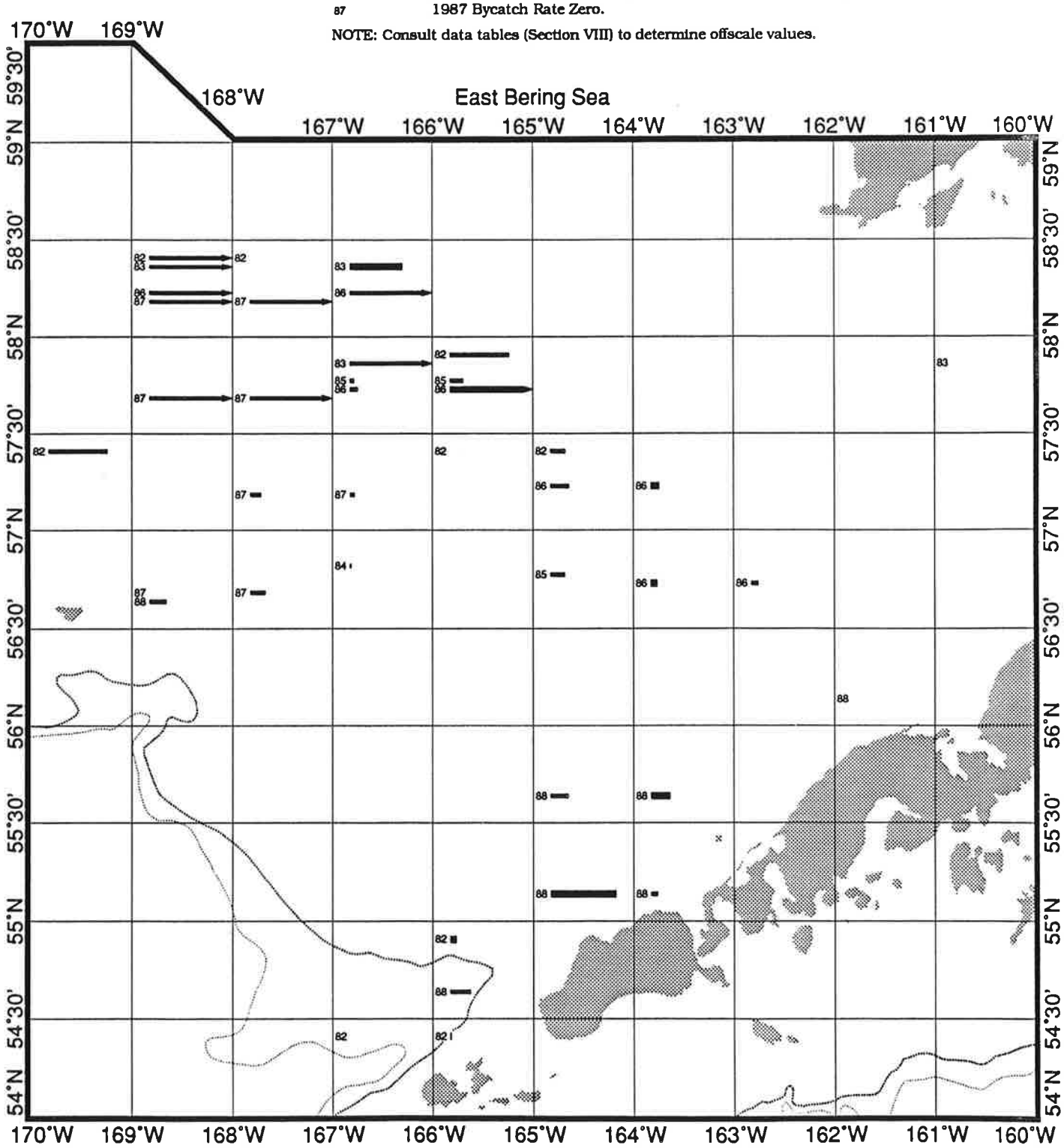
May
PACIFIC COD
Tanner Crab Bycatch Rate

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.



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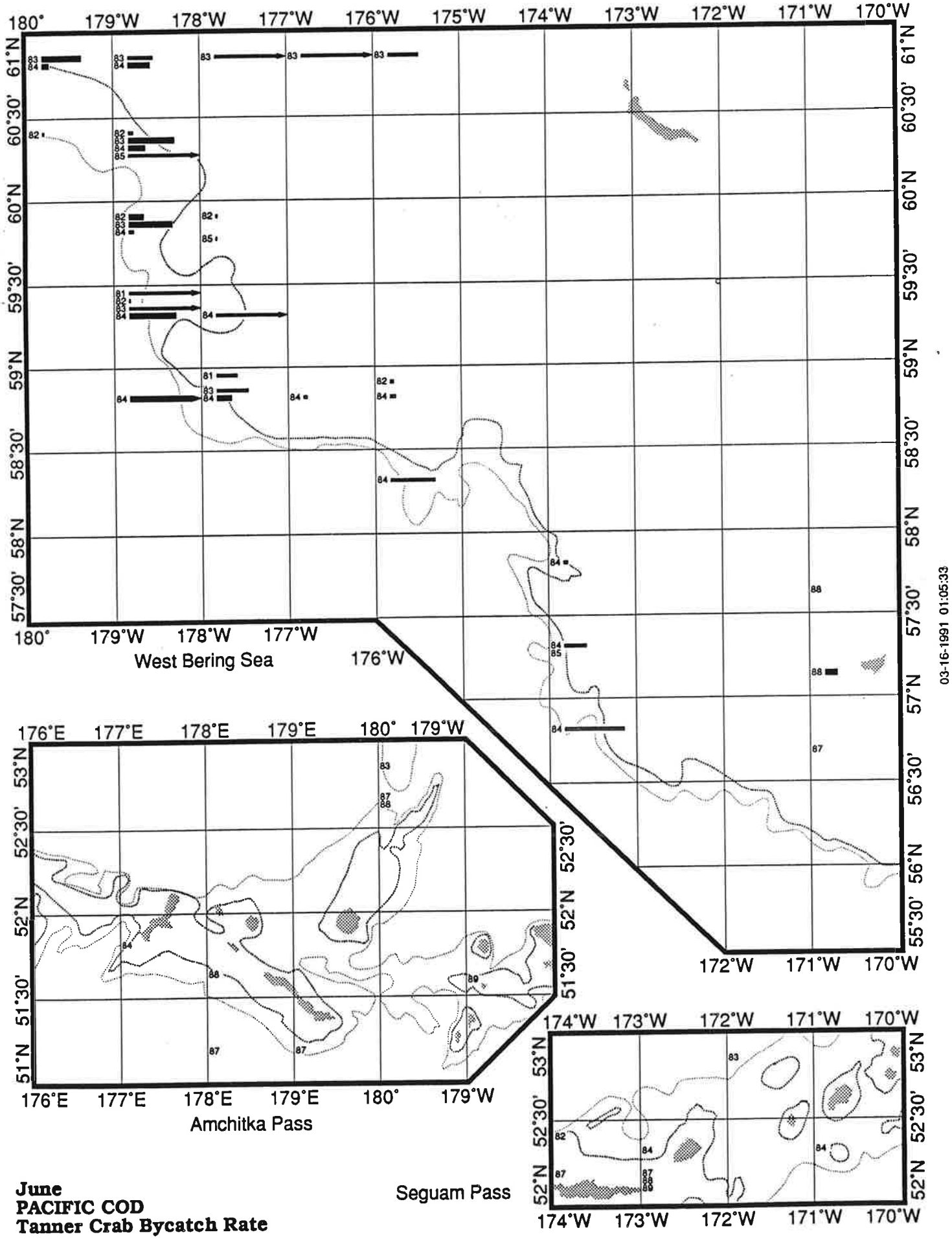
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



June
PACIFIC COD
Tanner Crab Bycatch Rate

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

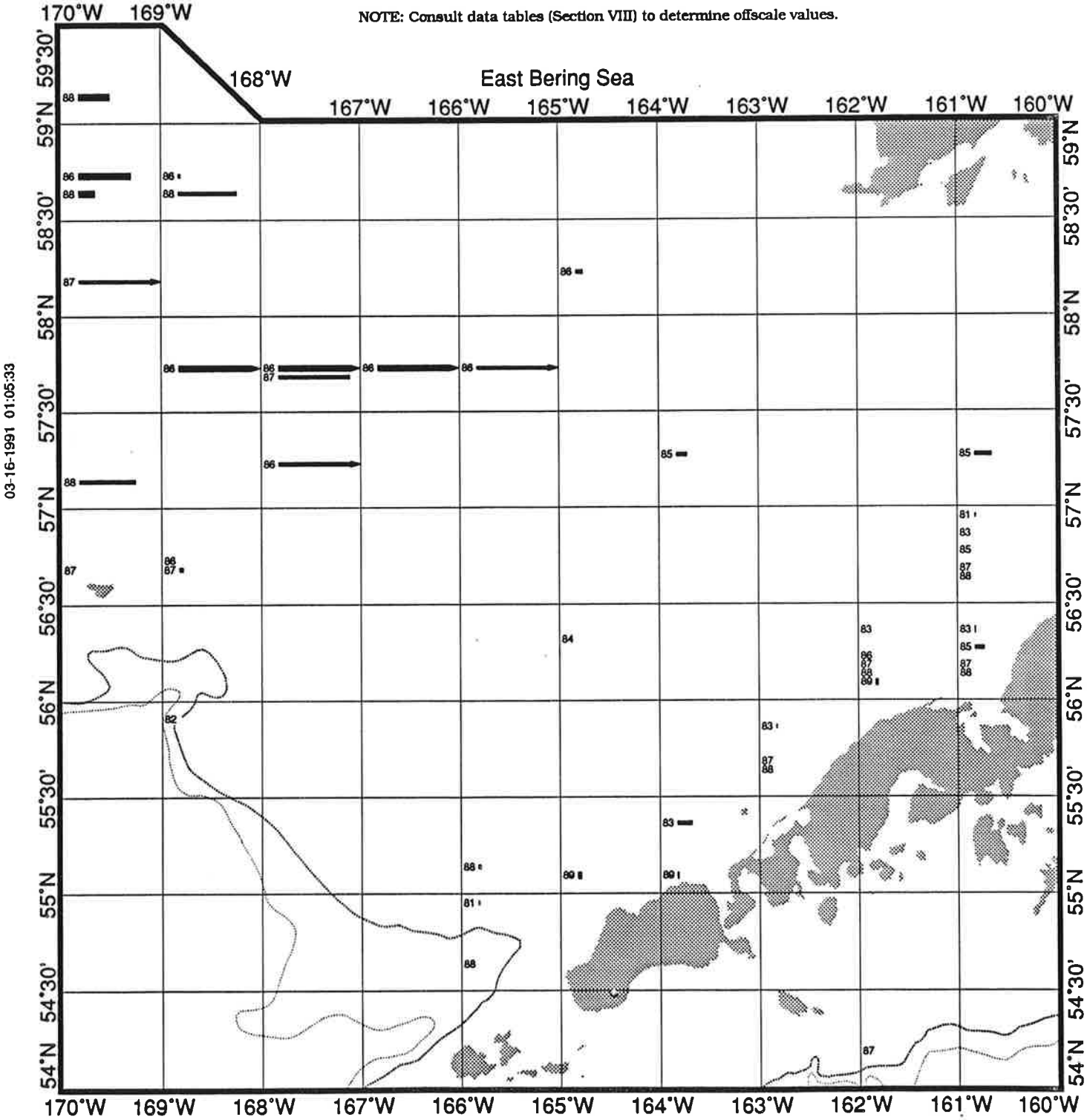
June
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

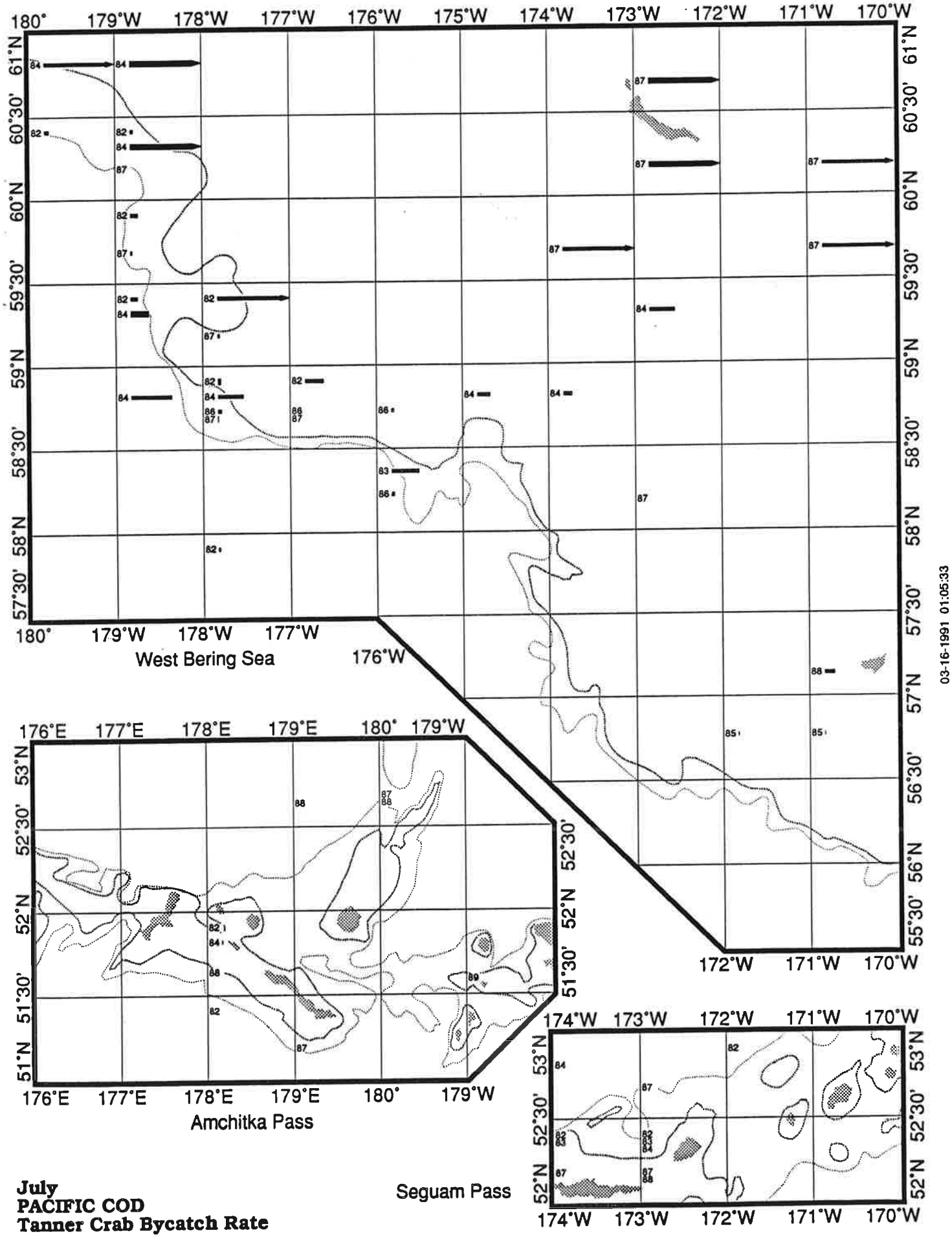
0 25 SCALE: Individuals per Metric Ton.

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.



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



July
PACIFIC COD
Tanner Crab Bycatch Rate

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

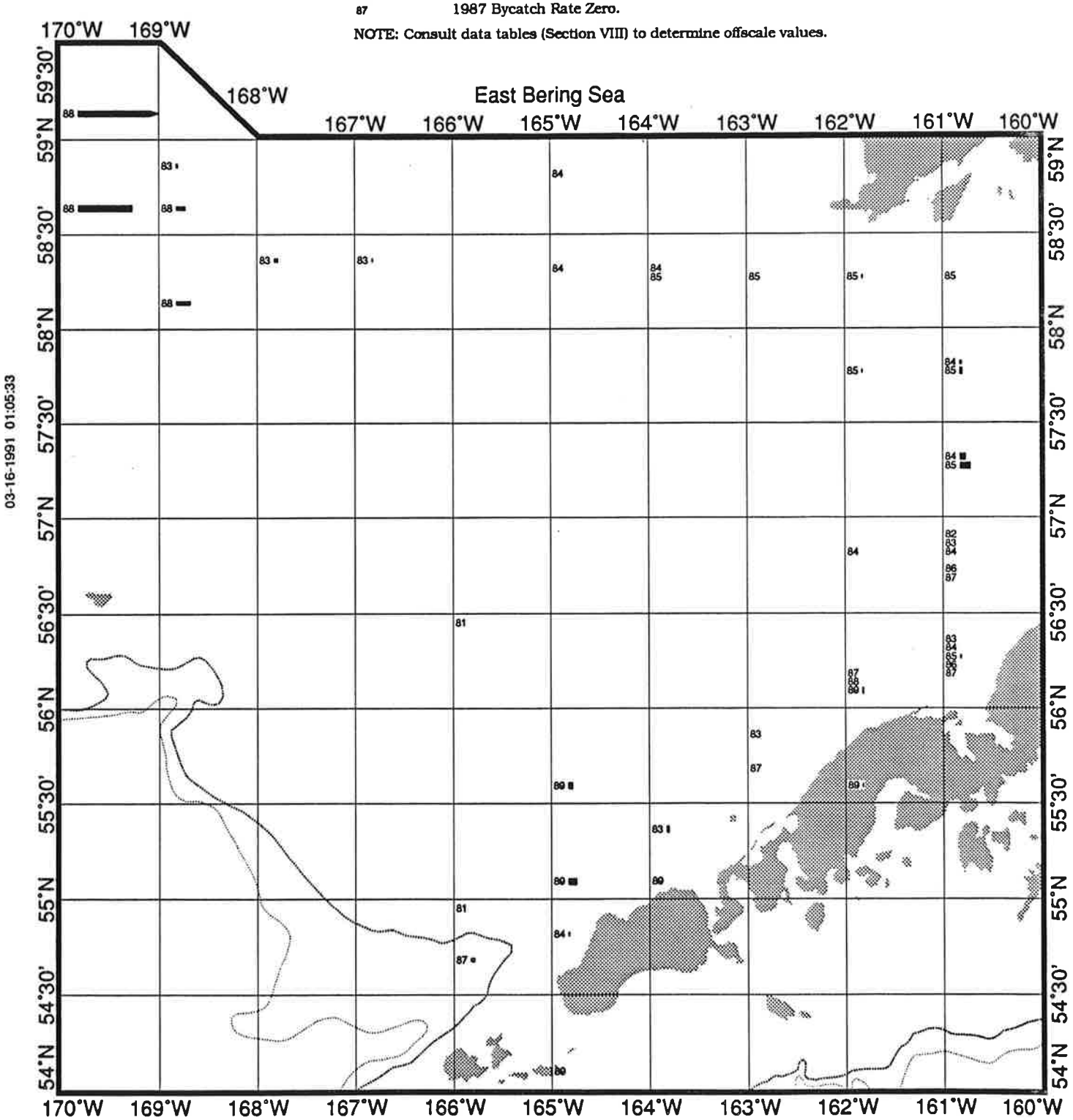
July
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

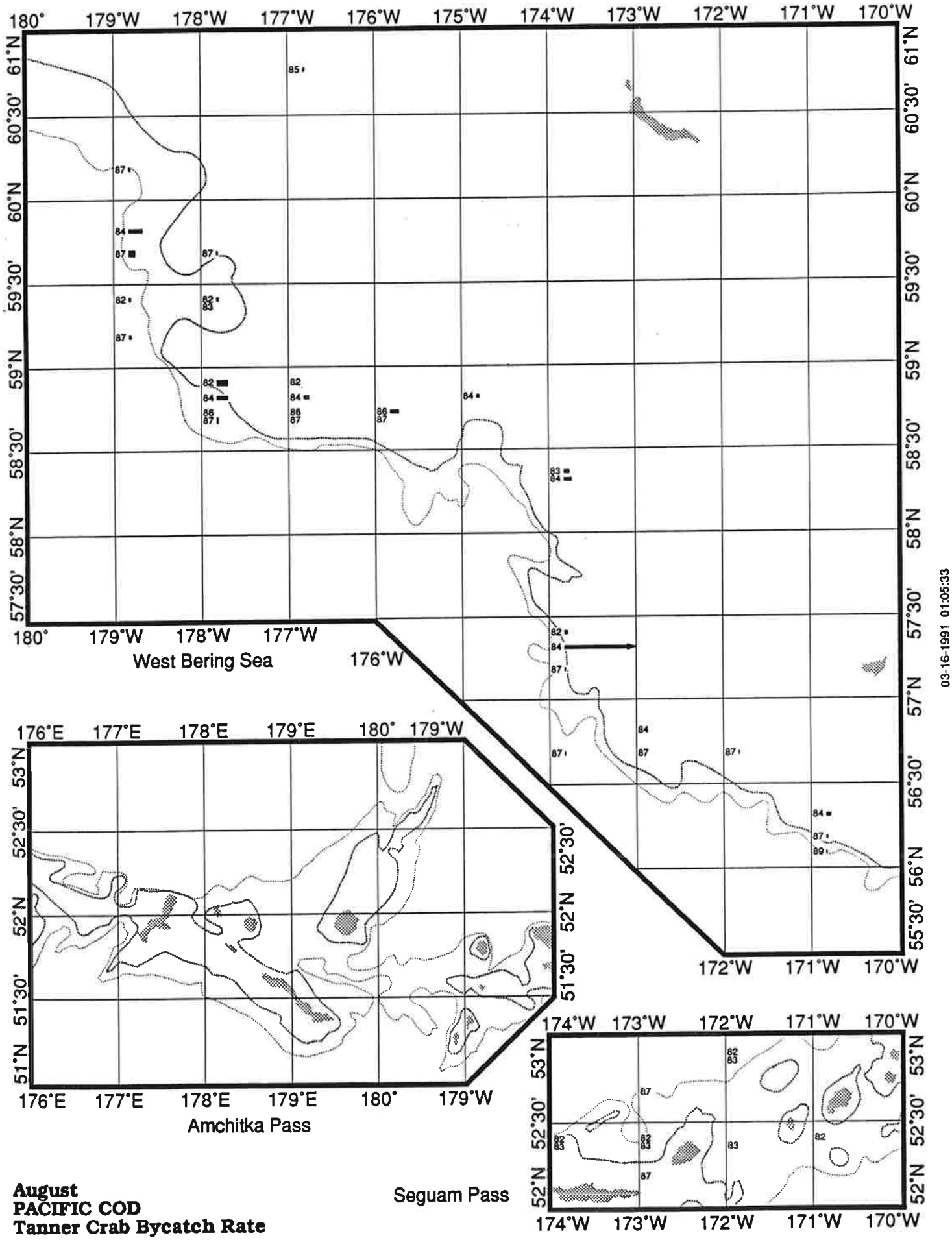
0 25 SCALE: Individuals per Metric Ton.

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.



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



August
PACIFIC COD
Tanner Crab Bycatch Rate

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

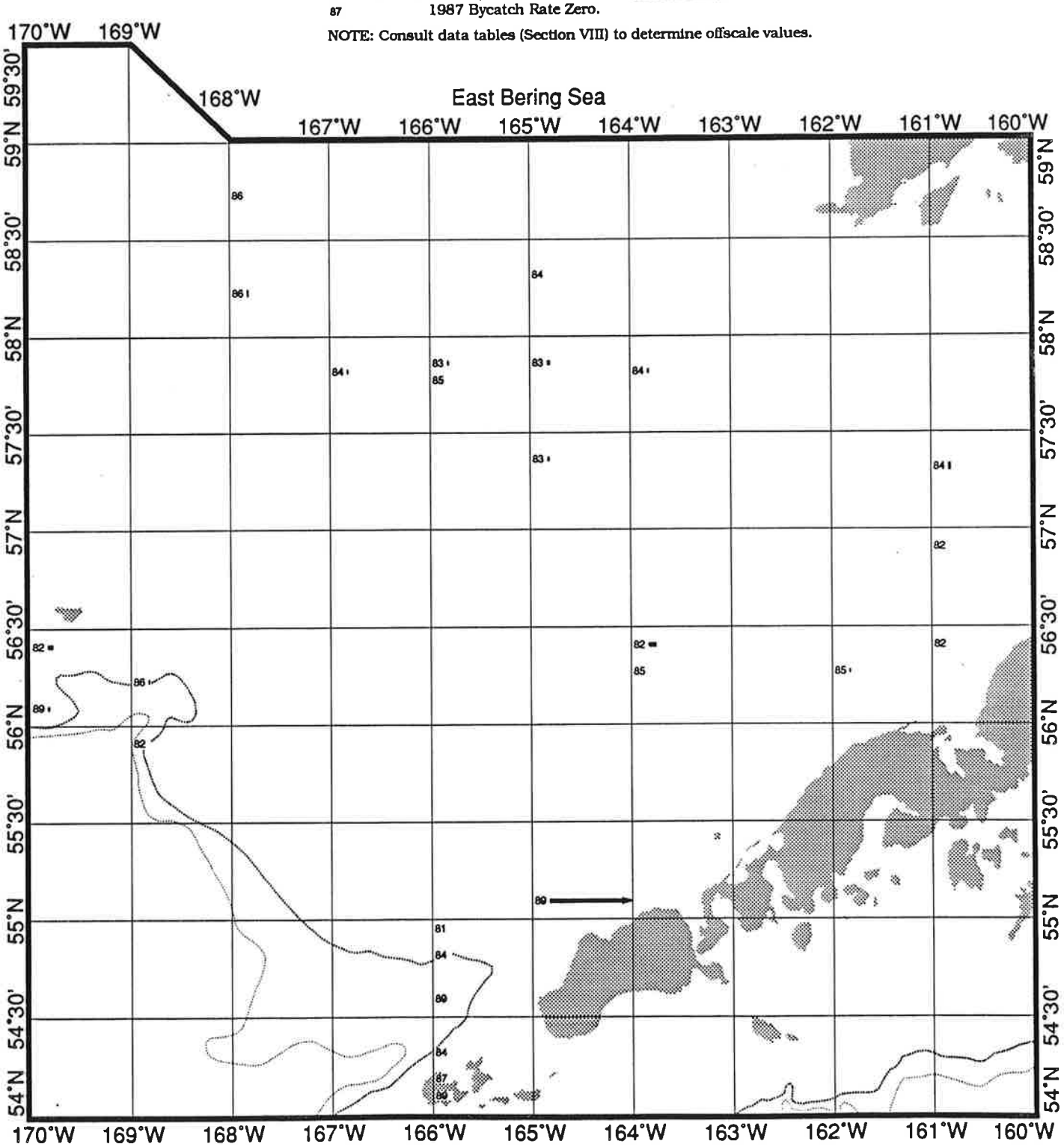
August
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

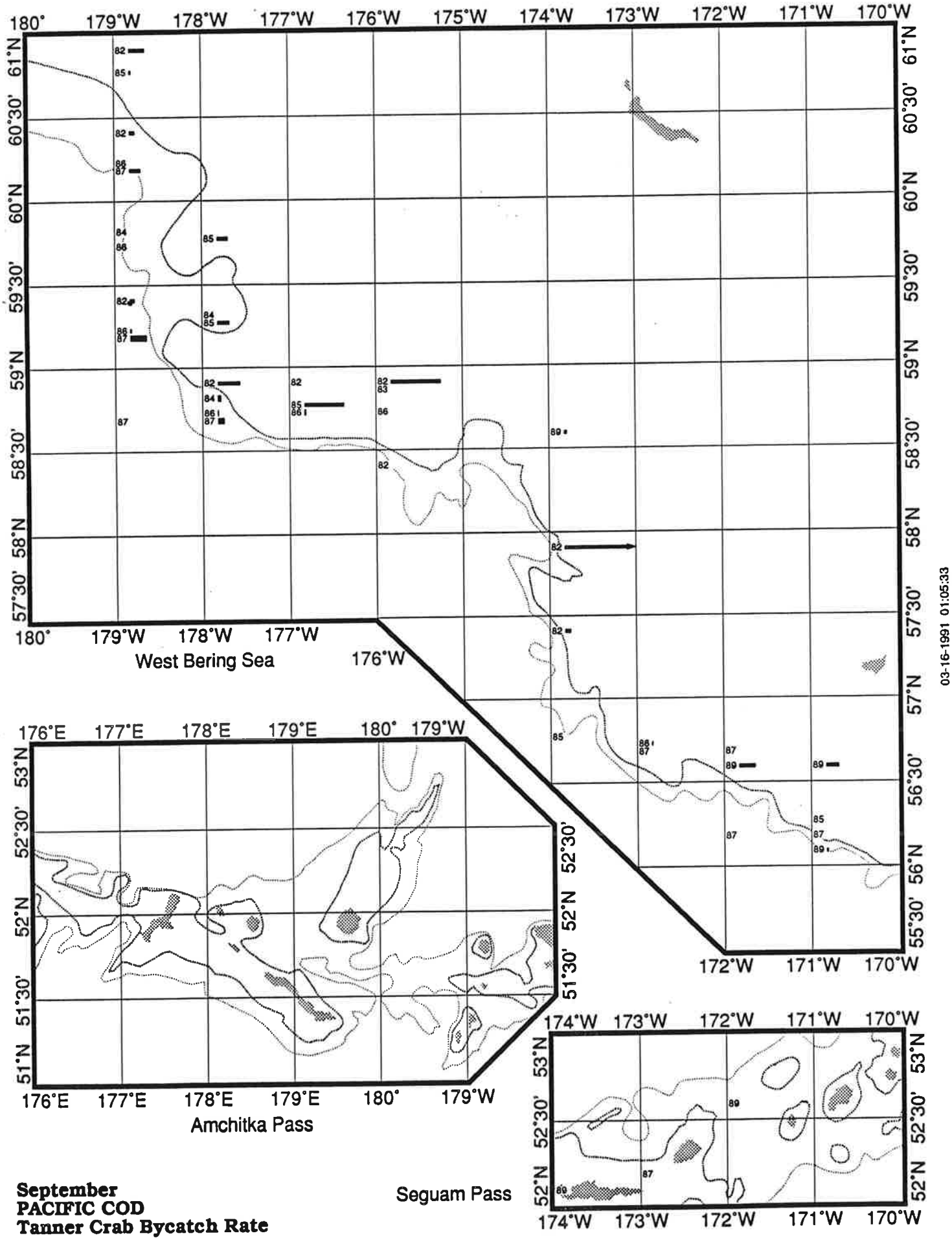
0 25 SCALE: Individuals per Metric Ton.

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.



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



September
PACIFIC COD
Tanner Crab Bycatch Rate

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

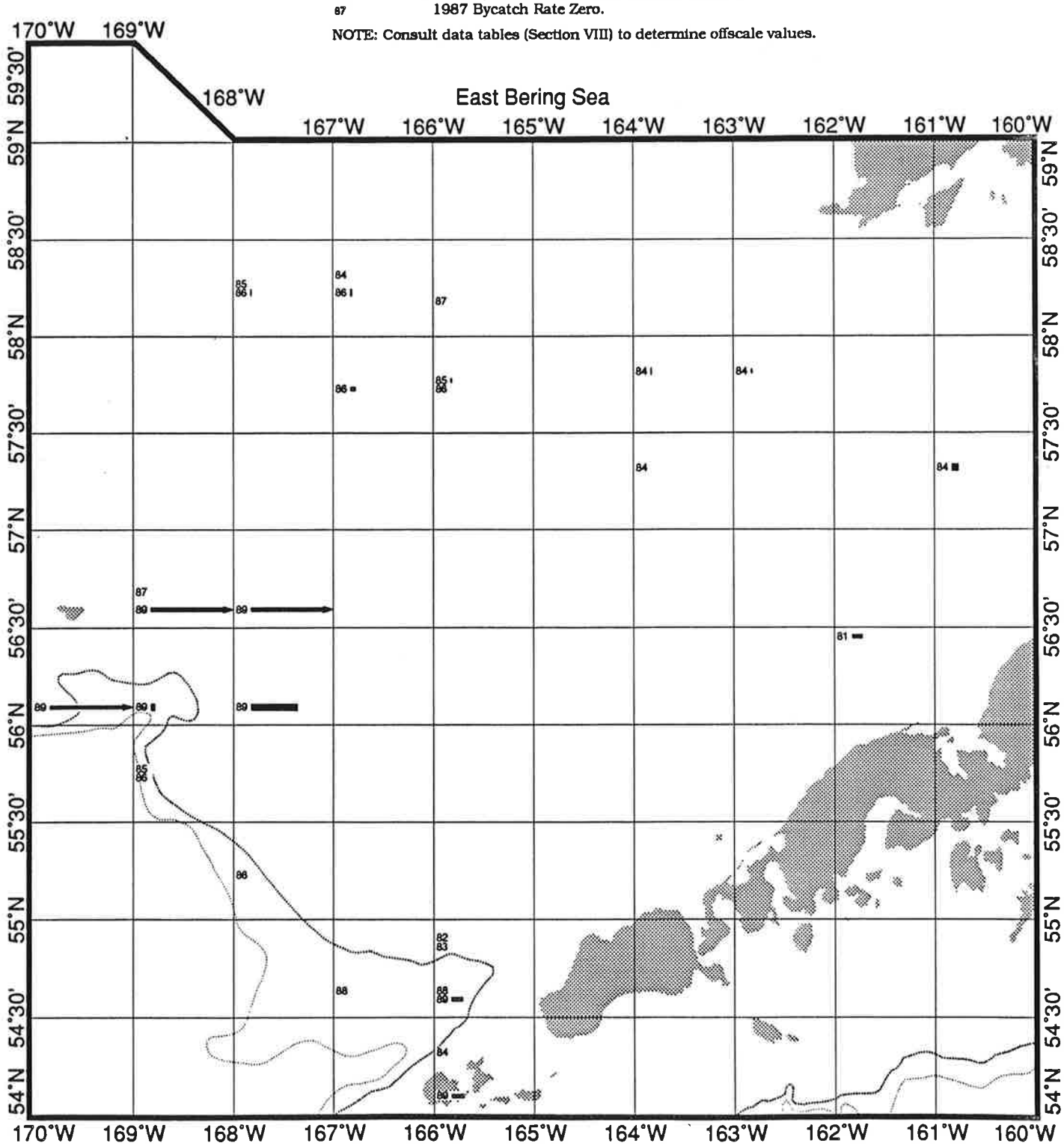
September
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

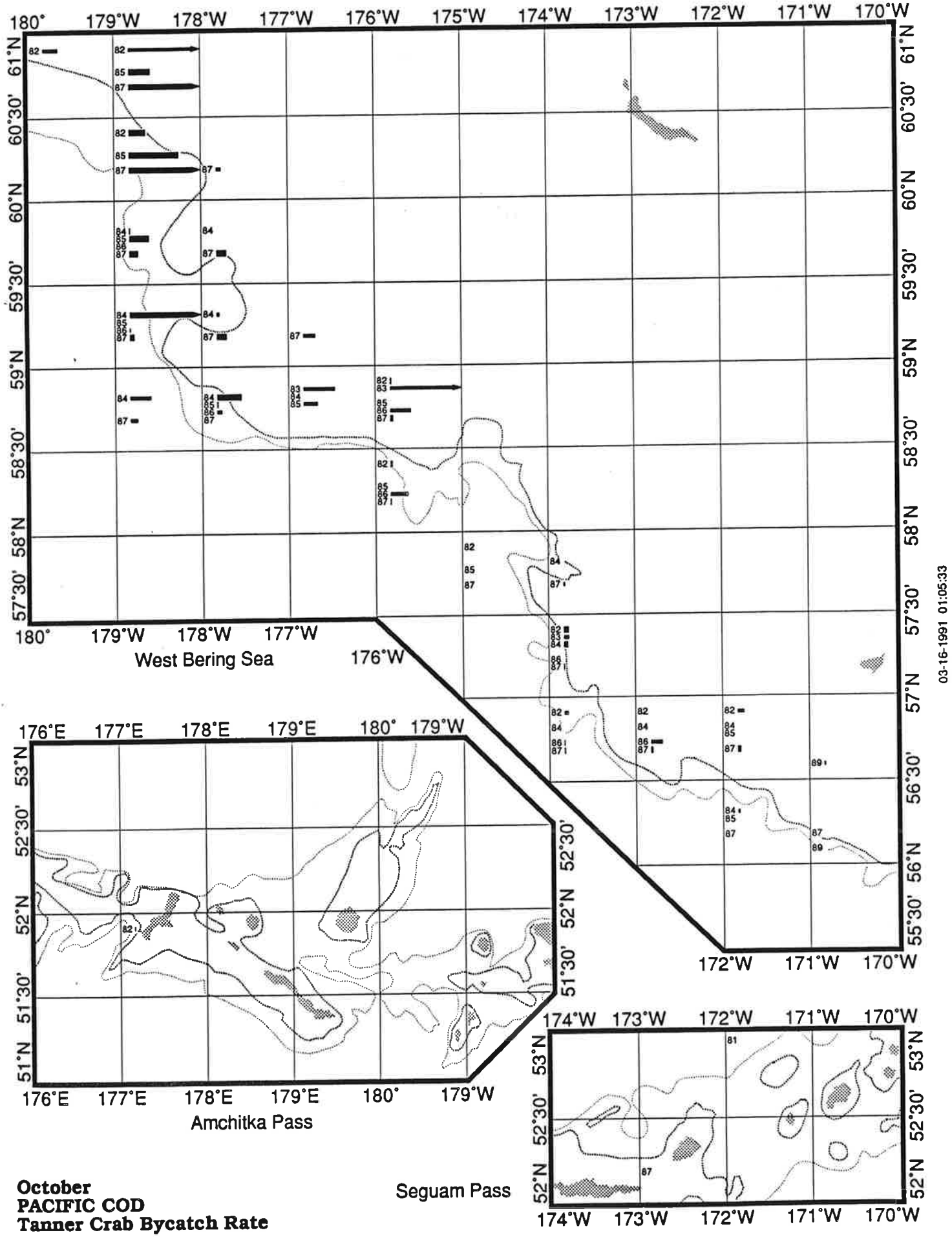
0 25 SCALE: Individuals per Metric Ton.

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.



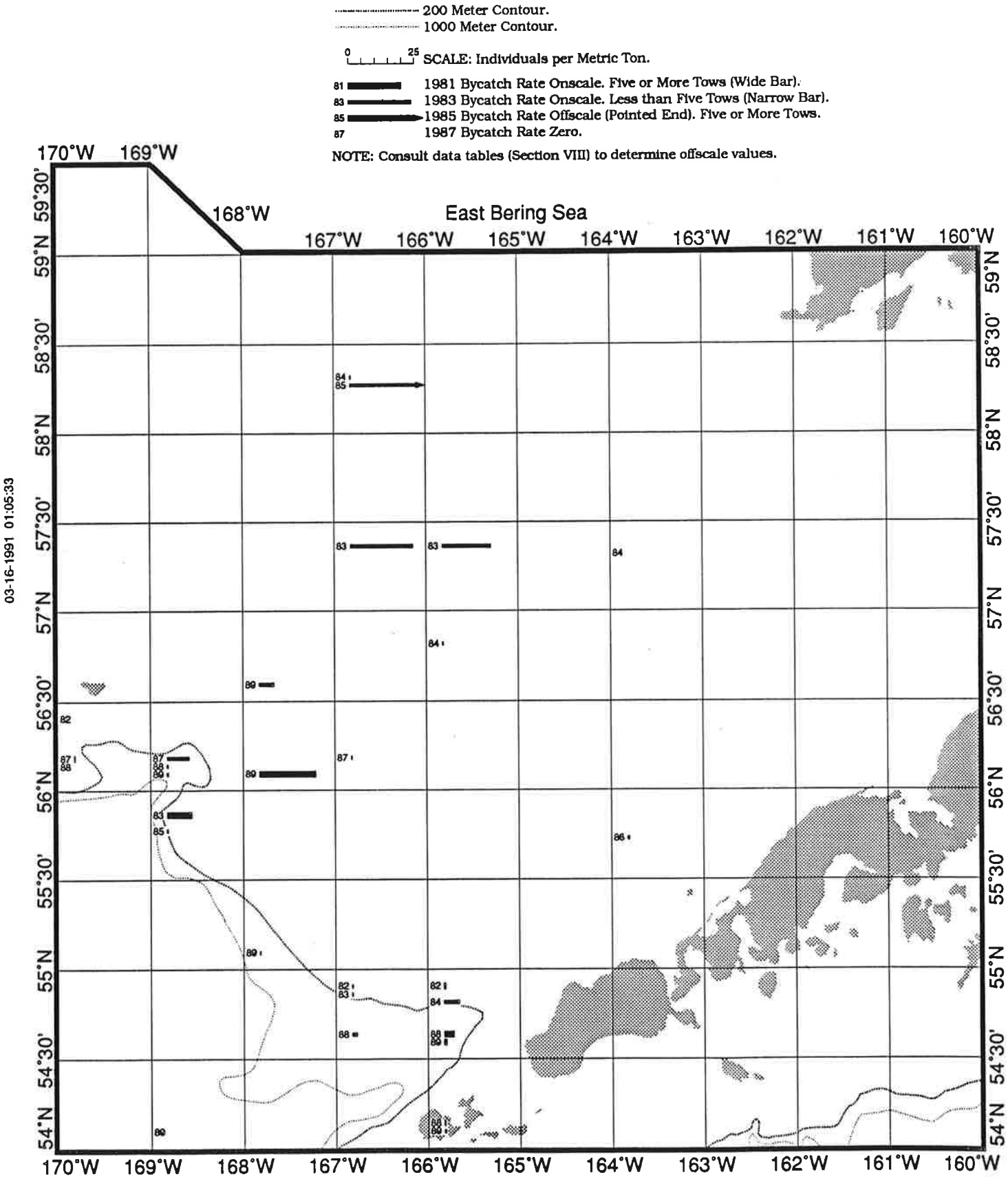
IMPORTANT: THESE CHARTS ARE NEITHER INTENDED NOR RELIABLE FOR NAVIGATION.



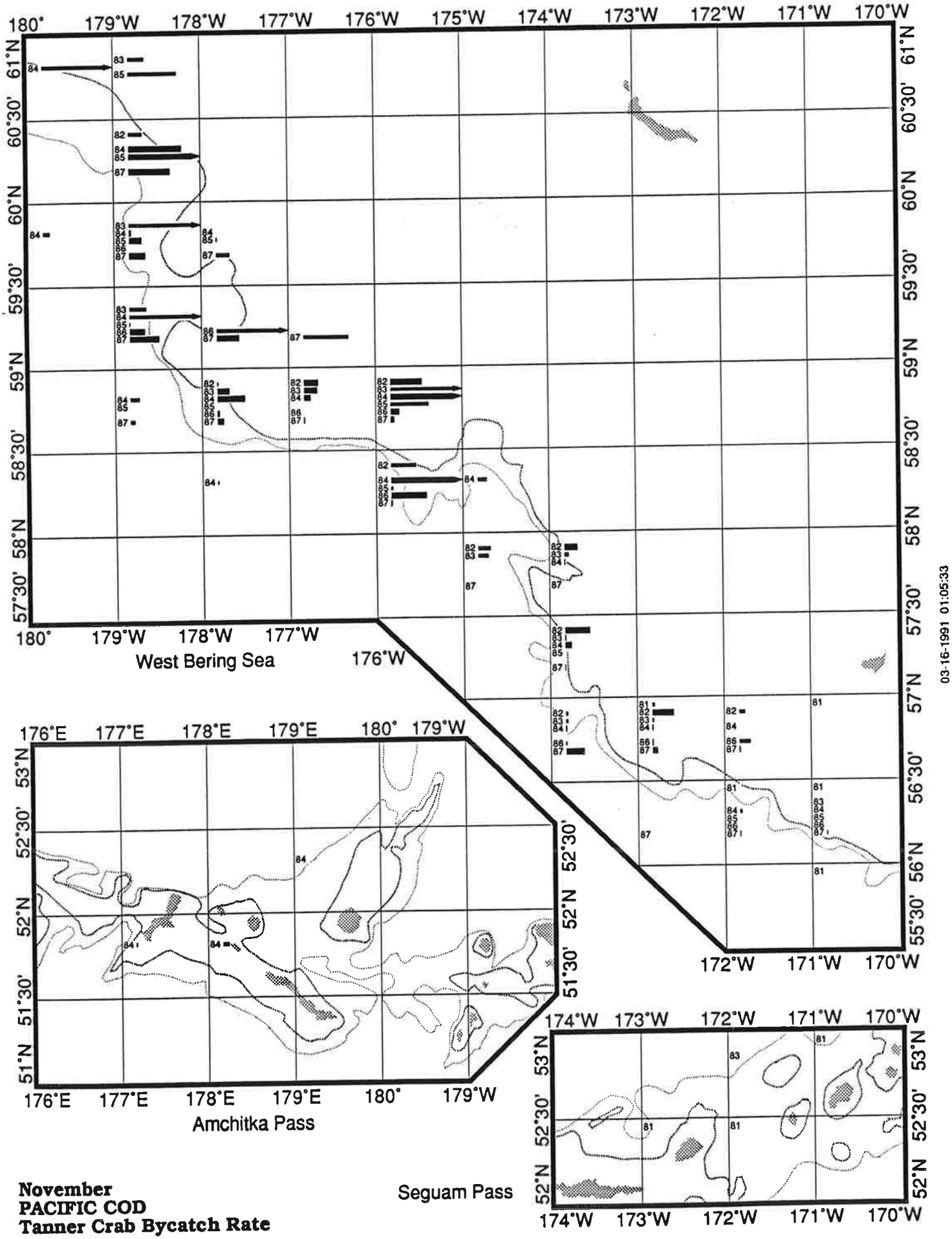
October
PACIFIC COD
Tanner Crab Bycatch Rate

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

October
PACIFIC COD
Tanner Crab Bycatch Rate



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



November
PACIFIC COD
Tanner Crab Bycatch Rate

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

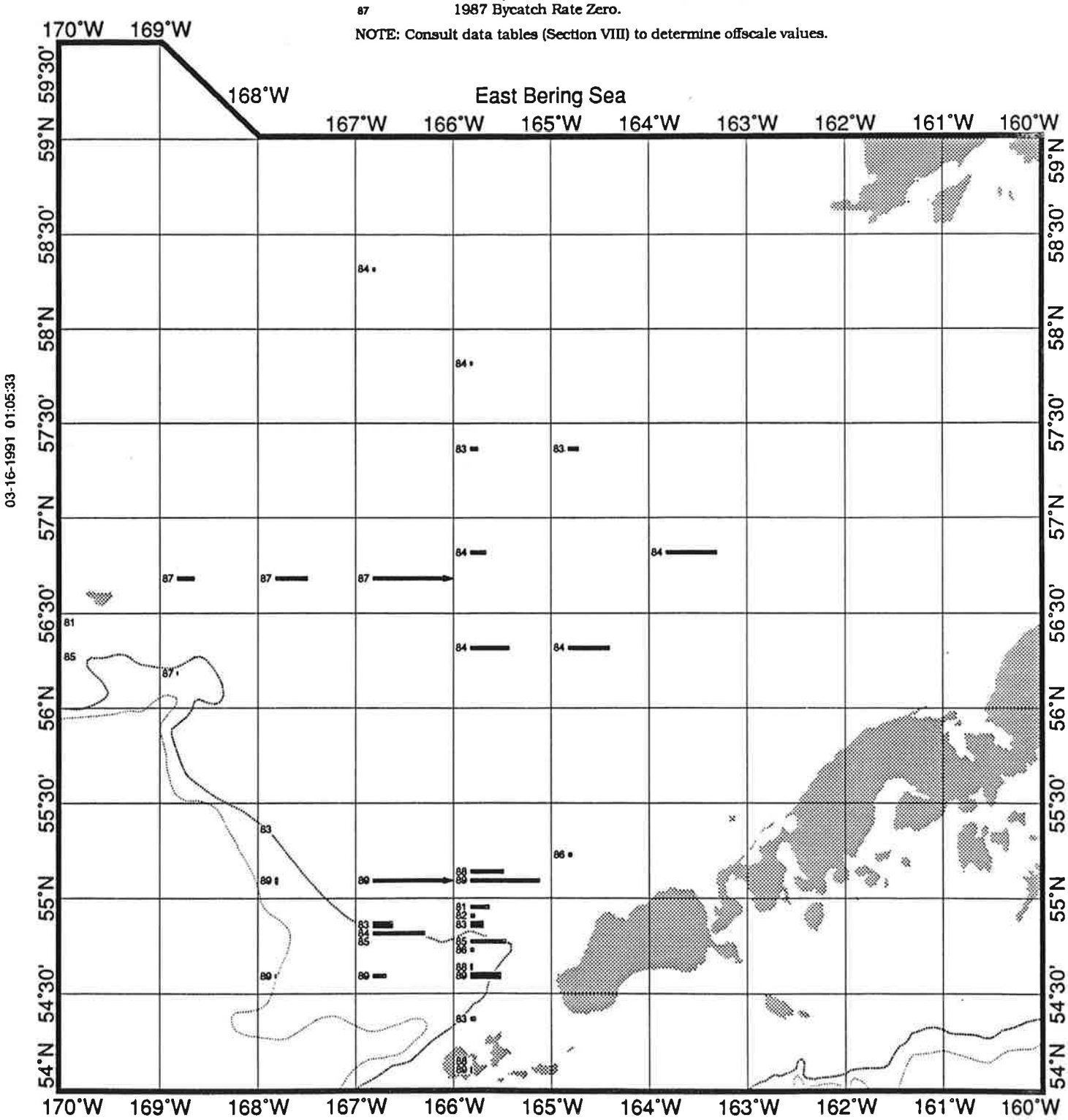
November
PACIFIC COD
Tanner Crab Bycatch Rate

200 Meter Contour.
1000 Meter Contour.

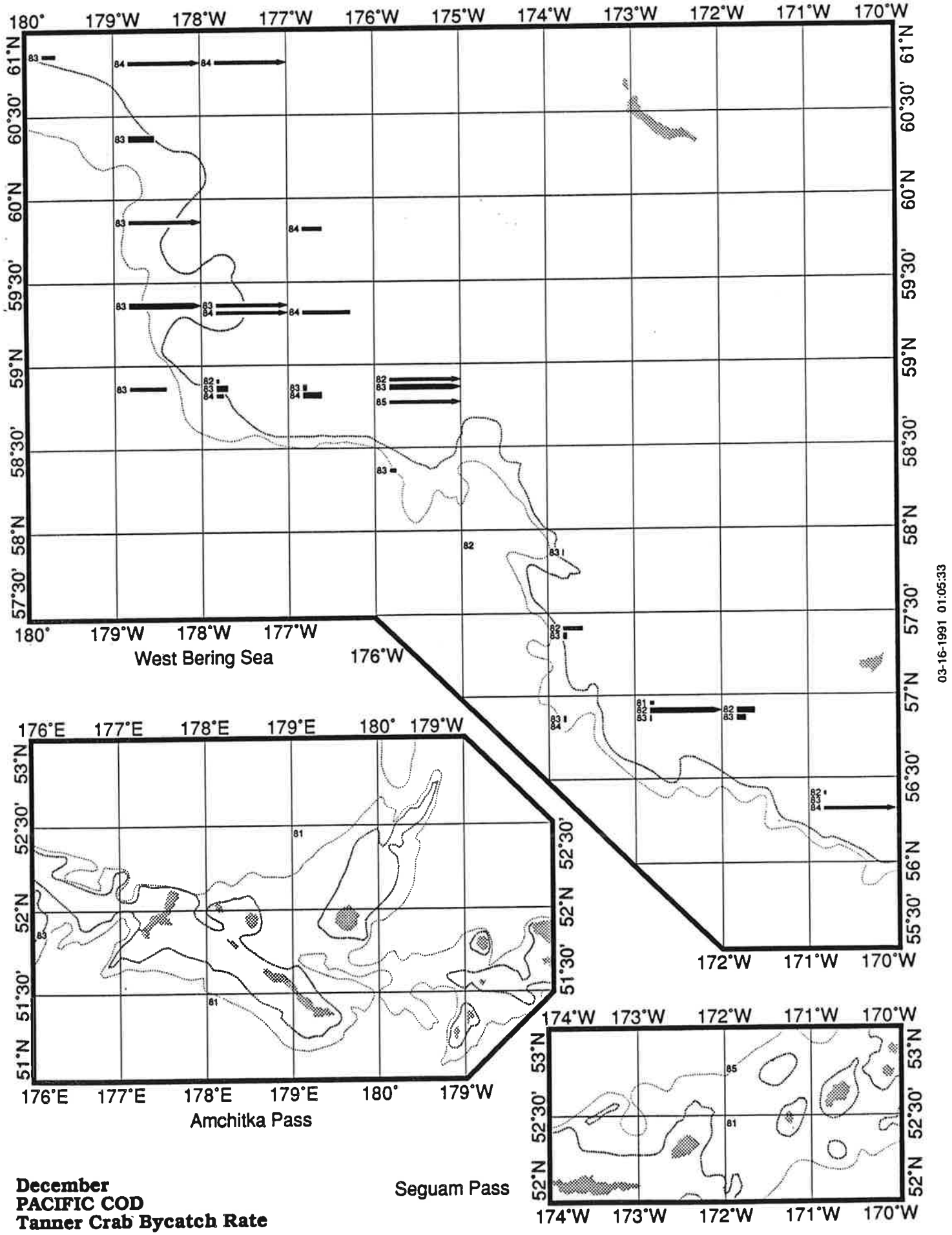
0 25 SCALE: Individuals per Metric Ton.

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.



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



December
PACIFIC COD
Tanner Crab Bycatch Rate

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

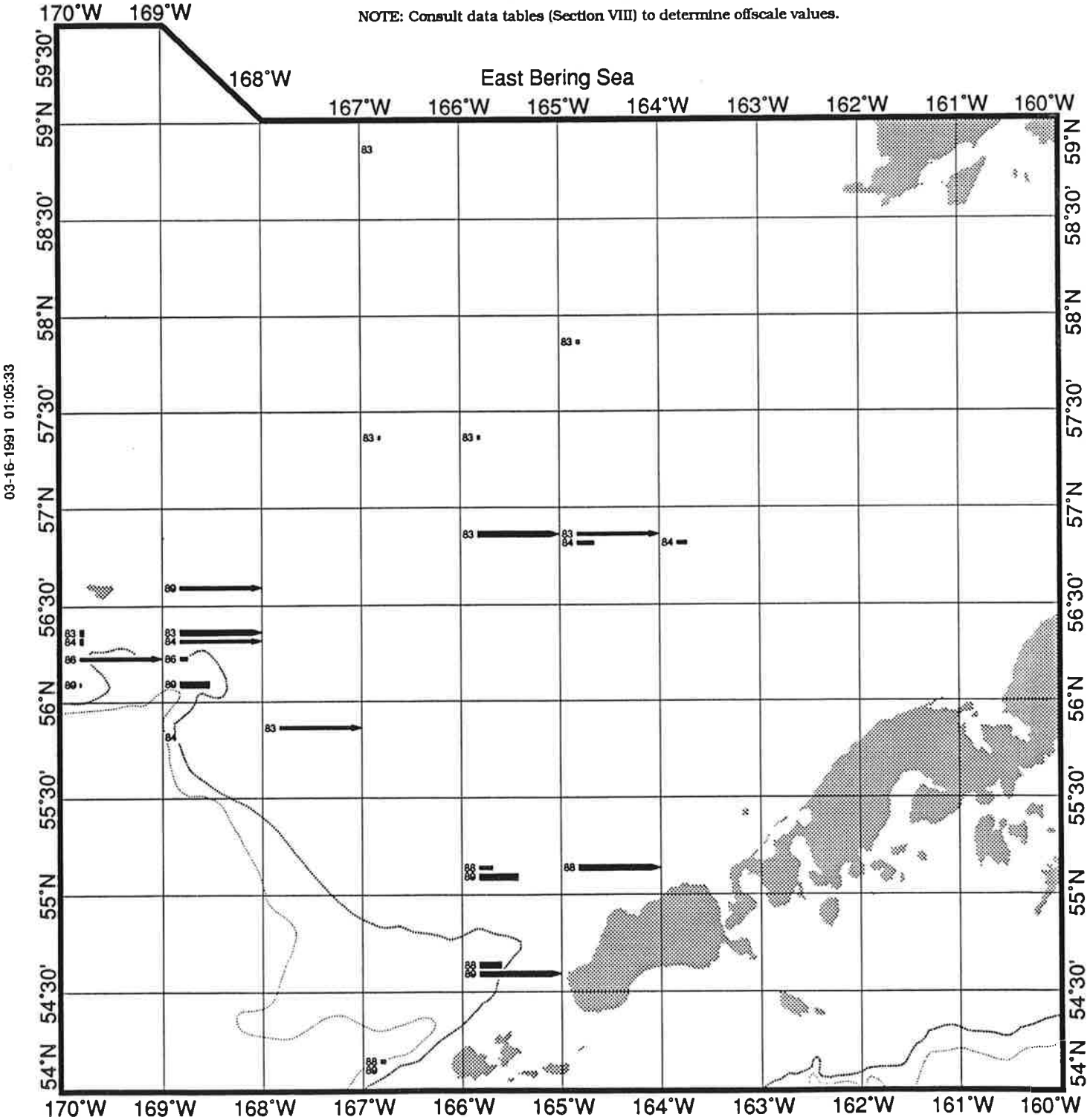
December
PACIFIC COD
Tanner Crab Bycatch Rate

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.



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

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.

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.

January
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
163550	88	31.7	16.0	50%	4.2	N/A	0.3%	0.0%	0.1	4.1	<5
164543	84	33.1	27.6	84%	8.2	N/A	1.2%	0.0%	0.0	4.7	<5
	87	28.8	21.8	76%	5.4	N/A	0.8%	0.0%	0.0	6.7	<5
	88	824.8	623.5	76%	5.5	18.3	1.4%	0.0%	0.0	4.1	45
164550	87	25.3	21.1	83%	5.6	N/A	0.1%	0.0%	0.0	0.0	<5
	88	395.4	289.0	73%	5.7	15.8	1.3%	0.0%	0.0	1.0	25
165540	84	95.4	56.6	59%	8.5	8.0	2.0%	0.0%	0.0	0.9	12
165543	84	106.1	92.4	87%	10.4	7.6	1.8%	0.0%	0.0	0.8	14
	87	536.1	441.3	82%	4.4	12.8	0.7%	0.0%	0.0	6.7	42
	88	7,681.8	6,246.5	81%	5.2	17.5	1.6%	0.0%	0.0	2.2	438
	89	11,148.2	9,711.2	87%	5.9	21.0	0.8%	0.0%	0.0	1.7	531
165550	84	13.7	11.6	85%	1.7	N/A	3.6%	0.0%	2.0	27.1	<5
	87	105.7	81.8	77%	4.1	15.1	1.0%	0.0%	0.0	5.4	7
	88	488.8	388.4	79%	5.0	17.5	1.7%	0.0%	0.0	4.4	28
165553	84	7.9	6.8	85%	1.8	N/A	3.3%	0.0%	0.0	5.4	<5
166540	84	129.9	94.5	73%	7.1	6.5	3.0%	0.0%	0.0	1.5	20
168560	84	3.0	2.1	71%	0.8	N/A	0.5%	0.0%	0.0	15.0	<5
169560	82	7.3	3.6	49%	1.6	N/A	8.2%	0.0%	0.0	0.8	<5
	84	2.0	1.8	91%	0.6	N/A	0.8%	0.0%	0.0	20.0	<5
172563	84	1.8	1.6	87%	0.5	N/A	0.8%	0.0%	0.0	0.0	<5
173563	84	3.5	2.7	77%	0.9	N/A	0.3%	0.0%	0.0	0.3	<5
174573	84	1.0	0.7	73%	0.3	N/A	0.3%	0.0%	0.0	0.0	<5
177583	81	3.3	2.7	83%	0.8	N/A	0.0%	0.0%	0.0	0.0	<5
	84	1.2	1.0	87%	0.3	N/A	0.5%	0.0%	0.0	0.0	<5
177590	85	7.9	7.8	99%	5.9	N/A	0.0%	0.0%	0.0	0.0	<5
178600	85	67.1	67.0	100%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
178610	***83***	***4.0***	***2.5***	***62%***	***0.8***	***N/A***	***0.2%***	***0.0%***	***0.3***	***1.0***	***<5***
179520	82	2.8	2.2	78%	0.5	N/A	13.5%	0.0%	1.1	0.0	<5
179603	83	5.0	2.4	48%	1.0	N/A	0.0%	0.0%	0.0	0.0	<5
183513	83	9.6	7.1	74%	1.6	N/A	0.1%	0.0%	0.2	0.1	<5
185520	***83***	***10.5***	***4.8***	***46%***	***1.5***	***N/A***	***1.4%***	***0.0%***	***0.0***	***0.5***	***<5***
186520	***82***	***2.7***	***2.1***	***77%***	***1.4***	***N/A***	***0.8%***	***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.***

February
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
162560	88	23.0	12.7	55%	5.1	N/A	0.1%	0.0%	8.0	6.6	<5
163553	88	17.0	9.7	57%	6.8	N/A	0.2%	0.0%	0.0	6.1	<5
	89	22.1	10.1	46%	8.3	N/A	0.7%	0.0%	0.7	9.9	<5
164543	84	610.3	470.5	77%	13.3	13.3	0.5%	0.0%	0.0	12.3	46
	87	119.3	100.6	84%	6.0	17.0	0.7%	0.0%	0.0	7.6	7
	88	2,279.6	1,963.3	86%	8.1	26.2	1.2%	0.0%	0.0	1.5	87
164550	83	35.1	28.4	81%	N/A	7.0	3.7%	0.0%	0.0	4.7	5
	84	102.1	49.3	48%	15.0	14.6	0.8%	0.0%	0.0	13.4	7
	86	75.3	51.1	68%	4.8	N/A	0.5%	0.0%	0.0	5.5	<5
	88	1,744.1	1,353.5	78%	7.7	29.6	1.0%	0.0%	0.0	2.1	59
165540	83	29.9	18.6	62%	N/A	N/A	0.1%	0.0%	0.0	124.4	<5
	84	527.4	456.0	86%	6.3	11.0	1.3%	0.0%	0.0	1.0	48
	88	86.2	81.6	95%	4.9	N/A	1.4%	0.0%	0.0	0.3	<5
165543	83	498.7	397.6	80%	N/A	9.4	1.1%	0.0%	0.0	11.9	53
	84	2,186.6	1,668.0	76%	10.3	12.4	0.8%	0.0%	0.0	7.3	176
	85	1,609.2	1,361.6	85%	3.9	12.3	0.5%	0.0%	0.0	3.6	131
	86	2,530.6	2,119.8	84%	4.7	17.3	1.0%	0.0%	0.0	6.8	146
	87	6,736.6	5,927.3	88%	6.1	19.9	0.5%	0.0%	0.0	3.0	338
	88	15,468.7	13,989.4	90%	7.4	24.3	1.0%	0.0%	0.0	1.0	636
165550	84	72.1	62.7	87%	16.3	14.4	2.2%	0.0%	0.0	29.2	5
	87	711.9	594.0	83%	5.8	23.7	0.7%	0.0%	0.0	6.2	30
	88	1,134.7	918.6	81%	5.9	22.7	1.9%	0.0%	0.0	1.3	50
165553	84	33.2	31.5	95%	9.2	N/A	0.7%	0.0%	0.0	0.1	<5
	88	44.5	43.9	99%	12.7	N/A	0.2%	0.0%	0.0	0.0	<5
165563	82	5.3	2.4	46%	2.7	N/A	1.2%	0.0%	0.6	10.6	<5
	83	13.6	7.9	58%	4.7	N/A	0.0%	0.0%	0.0	7.7	<5
	88	4.4	2.0	47%	N/A	N/A	0.5%	0.0%	0.0	0.0	<5
166540	84	159.8	144.6	90%	5.7	10.0	1.1%	0.0%	0.0	0.3	16
166563	83	1.2	0.9	72%	0.6	N/A	0.4%	0.0%	0.0	7.5	<5
	84	9.0	4.6	51%	3.6	N/A	1.6%	0.0%	0.0	15.3	<5
167560	84	3.7	1.8	49%	1.9	N/A	1.9%	0.0%	0.0	6.2	<5
167563	83	3.4	2.0	59%	1.7	N/A	0.1%	0.0%	0.0	2.6	<5
	84	1.8	0.9	52%	0.6	N/A	6.0%	0.0%	0.0	137.8	<5
167570	81	1.3	0.9	65%	0.4	N/A	0.3%	0.0%	0.0	386.9	<5
168560	82	1.2	0.7	61%	0.3	N/A	7.5%	0.0%	0.8	0.8	<5
	84	2.9	1.4	47%	0.6	N/A	5.1%	0.0%	0.0	43.4	<5
168563	84	5.5	3.0	55%	2.8	N/A	3.5%	0.0%	0.0	8.9	<5
169560	83	92.3	65.6	71%	2.1	7.7	0.4%	0.0%	0.0	3.7	12
	84	69.6	39.2	56%	1.7	7.7	2.6%	0.0%	0.0	8.6	9

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

Table VIII.2. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
170560	83	47.6	39.8	84%	1.4	5.3	0.3%	0.0%	0.0	7.9	9
175580	81	3.5	3.2	90%	0.9	N/A	2.2%	0.0%	0.0	1.1	<5
177590	83	35.0	23.2	66%	1.3	7.0	0.6%	0.0%	0.0	4.5	5
177593	83	19.2	12.9	67%	1.2	N/A	0.8%	0.1%	0.0	1.9	<5
178590	83	5.7	3.5	61%	1.5	N/A	0.0%	0.0%	0.0	0.4	<5
178593	83	3.5	1.9	53%	0.7	N/A	0.7%	0.0%	19.1	2.0	<5
178600	81	4.2	3.1	73%	0.7	N/A	0.5%	0.0%	3.3	126.4	<5
	83	6.9	5.0	73%	1.2	N/A	0.0%	0.0%	1.2	0.1	<5
178603	81	8.2	4.0	49%	1.5	N/A	1.6%	0.0%	2.7	75.1	<5
179603	83	11.0	6.2	56%	2.2	N/A	2.2%	0.0%	0.8	14.4	<5
185520	*83*	*138.9*	*78.7*	*57%*	*0.9*	*5.6*	*0.6%*	*0.0%*	*0.0*	*1.1*	*25*
186520	*83*	*25.8*	*23.9*	*93%*	*9.7*	*N/A*	*0.0%*	*0.0%*	*0.0*	*0.0*	*<5*
187520	*83*	*31.4*	*19.1*	*61%*	*2.0*	*N/A*	*1.3%*	*0.0%*	*0.0*	*0.5*	*<5*

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

March
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
162553	85	5.1	2.9	57%	N/A	N/A	0.0%	0.0%	13.3	8.4	<5
163553	83	45.5	21.3	47%	N/A	9.1	0.6%	0.0%	0.6	24.0	5
164543	83	61.4	54.2	88%	N/A	N/A	0.6%	0.0%	0.0	10.6	<5
	84	821.3	648.7	79%	N/A	16.1	0.3%	0.0%	0.0	3.9	51
	85	600.6	438.6	73%	4.9	14.0	0.5%	0.0%	0.0	4.6	43
	86	785.8	559.0	71%	4.4	16.7	0.4%	0.0%	0.0	8.7	47
	87	160.8	110.0	68%	5.3	20.1	0.7%	0.0%	0.0	1.7	8
	88	220.0	165.0	75%	3.5	13.7	1.5%	0.0%	0.0	6.5	16
164550	84	681.3	539.8	79%	N/A	13.4	0.2%	0.0%	0.0	1.7	51
	85	139.2	90.9	65%	8.1	10.7	1.2%	0.0%	0.0	8.3	13
	86	255.8	186.0	73%	3.9	17.1	0.4%	0.0%	0.0	4.6	15
	87	77.5	41.0	53%	8.2	N/A	0.4%	0.0%	0.1	5.5	<5
	88	266.4	196.9	74%	5.8	20.5	0.9%	0.0%	0.0	1.3	13
164563	82	2.1	1.2	57%	1.3	N/A	0.0%	0.0%	0.0	1.4	<5
	84	72.3	42.8	59%	19.3	N/A	0.6%	0.0%	0.0	1.6	<5
	87	20.1	9.2	46%	4.7	N/A	0.1%	0.0%	0.0	0.0	<5
165540	82	50.6	39.5	78%	N/A	7.2	0.9%	0.0%	0.0	0.0	7
	87	9.9	9.1	92%	3.0	N/A	3.2%	0.0%	0.0	0.0	<5
	88	26.3	25.2	96%	N/A	N/A	1.0%	0.0%	0.0	0.2	<5
165543	82	463.3	403.4	87%	N/A	9.9	1.5%	0.0%	0.0	0.5	47
	83	147.9	95.4	65%	N/A	7.4	0.8%	0.0%	0.0	29.8	20
	84	4,205.2	3,387.9	81%	25.2	13.5	0.6%	0.0%	0.0	8.6	312
	85	3,225.9	2,641.4	82%	4.3	12.1	0.8%	0.0%	0.0	4.1	267
	86	4,085.6	3,176.1	78%	4.0	15.8	0.8%	0.0%	0.0	10.2	259
	87	3,622.0	3,195.4	88%	4.6	18.1	0.5%	0.0%	0.0	3.3	200
	88	9,274.2	8,076.0	87%	6.0	21.5	0.9%	0.0%	0.0	1.2	431
165550	84	112.6	100.9	90%	17.1	11.3	0.6%	0.0%	0.0	22.0	10
	87	349.1	290.3	83%	4.6	19.4	1.3%	0.0%	0.0	5.5	18
	88	554.2	421.2	76%	4.9	22.2	2.3%	0.0%	0.0	2.5	25
165553	84	29.0	22.9	79%	4.0	N/A	0.3%	0.0%	0.0	8.2	<5
165563	82	7.1	3.3	46%	4.7	N/A	0.7%	0.0%	0.0	9.3	<5
	83	4.8	2.7	56%	2.1	N/A	0.0%	0.0%	0.0	0.4	<5
	84	67.0	57.5	86%	N/A	N/A	0.2%	0.0%	0.0	0.6	<5
	87	12.8	6.0	47%	4.0	N/A	0.3%	0.0%	0.0	2.0	<5
	88	10.8	4.9	46%	5.4	N/A	0.0%	0.0%	0.0	0.0	<5
166540	82	90.9	79.3	87%	N/A	6.1	1.5%	0.0%	0.0	0.0	15
	88	5.9	5.5	93%	1.5	N/A	3.9%	0.0%	0.0	0.5	<5
166543	84	81.1	40.7	50%	N/A	9.0	0.0%	0.0%	0.0	2.1	9
166550	83	51.6	43.8	85%	N/A	10.3	1.8%	0.0%	0.0	27.2	5

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

Table VIII.3. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
166560	83	3.9	3.0	78%	0.7	N/A	0.4%	0.0%	0.0	0.8	<5
166563	82	2.1	1.7	82%	2.1	N/A	0.0%	0.0%	0.0	0.0	<5
	84	26.1	23.5	90%	6.3	N/A	1.1%	0.0%	0.0	11.8	<5
	88	35.9	17.3	48%	8.4	N/A	0.3%	0.1%	0.0	1.3	<5
166570	81	10.8	6.5	60%	9.3	N/A	0.0%	0.0%	0.0	4.0	<5
167533	***88***	***517.3***	***482.7***	***93%***	***10.5***	***21.6***	***0.7%***	***0.0%***	***0.0***	***0.5***	***24***
167563	82	1.2	0.7	59%	2.4	N/A	1.9%	0.0%	0.0	34.2	<5
	84	7.1	4.3	61%	4.7	N/A	0.6%	0.0%	0.0	12.8	<5
167570	88	12.4	6.4	52%	5.3	N/A	0.0%	0.0%	0.0	0.2	<5
168560	88	11.2	6.6	59%	7.5	N/A	2.6%	0.0%	0.0	11.9	<5
168563	84	9.5	4.6	48%	5.7	N/A	0.0%	0.0%	0.0	4.7	<5
169560	83	48.2	31.5	65%	1.3	4.0	0.5%	0.0%	0.0	4.4	12
	84	10.4	5.2	50%	3.3	N/A	0.8%	0.0%	0.0	0.2	<5
	88	16.0	11.4	71%	4.0	N/A	1.3%	0.0%	0.0	0.3	<5
170560	81	0.9	0.4	46%	0.9	N/A	1.0%	0.0%	0.0	25.6	<5
	83	16.3	10.5	64%	1.4	3.3	0.7%	0.0%	0.0	1.1	5
	84	36.0	20.8	58%	2.5	N/A	1.4%	0.0%	0.0	14.9	<5
170563	83	1.3	0.9	68%	0.9	N/A	7.2%	0.0%	0.0	100.8	<5
	87	155.0	154.8	100%	32.1	N/A	0.0%	0.0%	0.0	0.0	<5
171563	83	3.4	2.1	61%	1.0	N/A	0.3%	0.0%	0.0	0.0	<5
172523	88	2.2	2.1	95%	0.7	N/A	0.0%	0.0%	0.9	0.9	<5
172563	81	15.0	9.0	60%	3.4	N/A	4.6%	0.0%	0.0	0.0	<5
	83	10.1	8.0	79%	0.7	1.4	0.5%	0.0%	0.0	0.0	7
173570	81	3.4	2.3	67%	1.6	N/A	0.3%	0.0%	0.0	0.0	<5
	83	9.1	4.5	49%	1.1	N/A	0.0%	0.0%	0.0	0.0	<5
173573	83	2.3	1.8	78%	0.2	0.3	1.9%	0.0%	0.0	6.5	7
174573	81	3.1	1.6	53%	1.6	N/A	13.2%	0.0%	0.0	0.0	<5
175580	83	15.9	9.6	61%	2.7	N/A	0.5%	0.0%	0.0	4.8	<5
175583	81	3.0	1.9	63%	4.5	N/A	3.7%	2.0%	0.0	402.7	<5
	83	24.8	15.0	60%	1.1	5.0	0.3%	0.0%	0.2	5.3	5
176583	83	16.4	12.3	75%	2.2	N/A	0.2%	0.0%	0.0	12.8	<5
177583	83	17.9	16.0	90%	1.3	N/A	0.0%	0.0%	0.1	0.1	<5
177590	83	31.5	19.0	60%	1.0	5.3	0.1%	0.0%	0.6	2.1	6
177593	83	19.1	12.6	66%	6.4	N/A	0.0%	0.0%	0.1	0.0	<5
178583	83	8.5	7.1	84%	1.9	N/A	0.0%	0.0%	0.0	0.0	<5
178590	83	68.8	62.3	91%	1.5	6.3	0.1%	0.0%	0.1	6.4	11

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

March
PACIFIC COD
Data Table

Table VIII.3. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
178593	83	17.0	9.2	54%	3.1	N/A	0.1%	0.0%	5.9	8.6	<5
179593	83	2.4	1.3	55%	0.6	N/A	0.8%	0.0%	0.0	0.0	<5
180520	81	4.6	2.3	51%	1.8	N/A	0.1%	0.0%	0.4	0.0	<5
185520	***83***	***104.1***	***65.1***	***63%***	***1.0***	***6.1***	***0.5%***	***0.0%***	***0.1***	***0.1***	***17***

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

April
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
163550	84	84.3	38.1	45%	N/A	16.9	0.7%	0.0%	0.0	1.2	5
163553	84	86.0	56.6	66%	33.7	14.3	0.5%	0.0%	0.0	18.8	6
	86	536.2	300.1	56%	14.0	35.7	2.0%	0.0%	0.1	7.2	15
163560	85	12.6	7.3	58%	6.0	N/A	1.4%	0.0%	0.2	2.4	<5
164543	84	92.2	58.3	63%	16.6	15.4	0.3%	0.0%	0.0	0.4	6
	87	21.2	12.2	58%	3.0	N/A	0.6%	0.0%	0.2	7.9	<5
164550	84	116.7	87.2	75%	16.1	16.7	0.8%	0.0%	0.1	8.2	7
	86	113.8	79.1	69%	19.0	N/A	1.3%	0.0%	1.1	1.9	<5
	87	252.1	156.6	62%	7.7	28.0	0.6%	0.0%	0.2	6.1	9
	88	130.8	64.6	49%	9.5	N/A	0.2%	0.0%	0.0	0.0	<5
	89	99.8	70.9	71%	4.8	16.6	0.3%	0.0%	0.0	0.0	6
164553	86	45.4	28.5	63%	3.3	N/A	1.6%	0.0%	0.0	15.0	<5
	87	27.0	13.4	49%	6.0	N/A	5.0%	0.0%	0.0	0.0	<5
	88	75.9	38.0	50%	8.5	N/A	0.5%	0.0%	0.2	4.1	<5
164560	88	56.0	35.3	63%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
164563	87	34.8	24.1	69%	6.1	N/A	1.6%	0.0%	0.0	11.8	<5
165540	82	78.0	66.2	85%	N/A	5.6	2.2%	0.0%	0.0	0.0	14
	87	21.0	12.8	61%	N/A	N/A	13.2%	0.0%	0.0	0.0	<5
	88	293.8	245.8	84%	7.6	29.4	1.5%	0.0%	0.0	0.2	10
165543	82	814.1	551.0	68%	N/A	9.5	1.4%	0.0%	0.0	0.0	86
	84	850.3	533.7	63%	29.5	14.9	0.5%	0.0%	0.0	8.2	57
	85	526.1	346.8	66%	5.4	17.5	0.4%	0.0%	0.0	3.6	30
	87	151.5	119.8	79%	5.4	25.3	0.4%	0.0%	0.0	1.9	6
	88	2,573.1	1,897.5	74%	5.3	22.4	0.7%	0.0%	0.0	1.3	115
	89	33.6	25.4	76%	2.7	N/A	0.7%	0.0%	0.0	2.6	<5
165550	84	67.0	43.6	65%	21.7	N/A	1.8%	0.0%	0.0	11.7	<5
	88	60.6	38.4	63%	3.2	N/A	1.5%	0.0%	0.0	8.5	<5
165553	87	36.3	28.5	78%	N/A	N/A	0.1%	0.0%	0.0	0.2	<5
165563	83	20.5	11.0	54%	1.4	N/A	0.9%	0.0%	0.0	23.9	<5
	84	40.3	18.4	46%	2.7	N/A	0.8%	0.0%	0.0	5.6	<5
	87	17.4	8.6	49%	1.8	N/A	1.3%	0.0%	0.0	0.1	<5
165570	87	142.8	77.1	54%	3.4	13.0	0.8%	0.0%	0.0	3.1	11
165573	87	16.2	9.1	56%	2.4	N/A	0.7%	0.0%	0.2	37.8	<5
166540	84	12.6	9.6	77%	4.4	N/A	1.9%	0.0%	0.0	64.4	<5
	88	486.4	430.6	89%	14.1	32.4	2.3%	0.0%	0.0	0.0	15
166560	83	47.3	25.3	53%	4.0	N/A	4.8%	0.0%	0.0	6.2	<5
	88	29.0	15.4	53%	2.9	N/A	7.3%	0.0%	0.0	4.0	<5

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

April
PACIFIC COD
Data Table

Table VIII.4. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
166563	82	5.0	2.4	48%	1.5	N/A	0.1%	0.6%	0.0	1.2	<5
	83	11.0	7.0	63%	1.7	N/A	13.6%	0.0%	0.0	32.9	<5
	84	10.5	5.7	54%	0.9	N/A	0.8%	0.0%	0.0	6.9	<5
	85	4.6	3.0	65%	7.9	N/A	0.6%	0.0%	0.0	5.7	<5
	88	80.0	40.2	50%	5.1	13.3	3.4%	0.0%	0.0	5.0	6
166570	87	25.6	14.4	56%	3.6	N/A	1.3%	0.0%	0.0	0.2	<5
166573	87	51.9	31.6	61%	4.6	N/A	0.6%	0.0%	0.0	46.9	<5
167533	***88***	***26.9***	***22.6***	***84%***	***2.6***	***N/A***	***0.9%***	***0.0%***	***0.0***	***0.0***	***<5***
167560	88	27.8	14.1	51%	11.1	N/A	1.8%	0.0%	0.0	1.3	<5
167563	88	72.8	36.2	50%	3.4	12.1	4.6%	0.0%	0.0	9.6	6
167570	87	51.4	25.9	50%	3.5	N/A	0.2%	0.0%	0.1	122.7	<5
	88	14.5	6.7	46%	2.9	N/A	0.0%	0.0%	0.0	18.9	<5
167573	87	68.1	37.9	56%	4.0	N/A	0.1%	0.0%	0.0	24.1	<5
168553	84	4.1	2.4	58%	N/A	N/A	39.5%	0.0%	0.0	0.0	<5
168560	88	9.0	5.2	57%	2.5	N/A	1.5%	0.0%	0.0	0.0	<5
168563	88	103.1	55.9	54%	5.6	14.7	1.0%	0.0%	0.0	6.0	7
168580	83	4.9	2.8	56%	1.5	N/A	0.4%	0.0%	0.0	4.1	<5
169560	88	68.5	36.1	53%	24.2	N/A	0.9%	0.0%	0.0	0.0	<5
169563	88	97.7	55.5	57%	5.2	14.0	0.8%	0.0%	0.0	6.0	7
170563	83	3.0	2.5	82%	0.4	N/A	6.8%	0.0%	0.0	0.3	<5
171563	83	5.4	3.5	65%	0.4	1.1	12.9%	0.0%	0.0	10.9	5
	88	9.5	6.9	72%	2.7	N/A	0.3%	0.0%	0.0	0.4	<5
171570	87	186.9	186.1	100%	21.2	N/A	0.0%	0.0%	0.0	0.0	<5
171573	83	0.4	0.2	50%	0.2	N/A	0.0%	0.0%	0.0	420.0	<5
172520	84	46.3	23.2	50%	29.2	N/A	0.0%	0.0%	0.0	0.0	<5
	89	40.0	29.3	73%	3.4	5.7	2.0%	0.0%	0.0	0.0	7
172563	83	4.7	3.7	78%	0.4	0.9	2.3%	0.0%	0.0	0.0	5
	88	98.6	88.4	90%	6.2	19.7	0.2%	0.0%	0.0	0.2	5
172570	88	99.8	99.7	100%	22.2	N/A	0.0%	0.0%	0.0	0.0	<5
173520	84	8.8	5.1	58%	1.7	N/A	1.0%	0.0%	0.0	0.0	<5
	89	5.9	3.9	66%	1.1	N/A	1.3%	0.0%	0.0	0.0	<5
173563	83	6.6	5.9	89%	0.9	N/A	1.3%	0.0%	0.0	0.0	<5
173570	83	2.8	2.1	74%	0.3	N/A	4.2%	0.0%	0.0	0.0	<5
	86	18.7	15.4	83%	2.9	N/A	2.2%	0.0%	0.0	0.3	<5
173573	83	7.7	6.6	86%	0.6	1.3	0.9%	0.0%	0.0	0.0	6

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

Table VIII.4. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
174573	81	1.0	0.5	49%	2.0	N/A	4.5%	0.0%	0.0	0.0	<5
	82	0.4	0.2	45%	0.1	N/A	0.0%	0.0%	0.0	0.0	<5
175580	83	10.9	10.2	93%	2.3	N/A	0.2%	0.0%	0.0	0.0	<5
175583	83	45.8	34.3	75%	0.8	3.3	0.3%	0.0%	0.0	4.0	14
176583	83	80.2	57.5	72%	0.8	3.8	0.4%	0.0%	0.2	4.0	21
177583	83	241.3	199.3	83%	0.8	3.8	0.4%	0.0%	0.1	1.2	63
177590	83	11.8	8.8	75%	0.3	1.5	0.6%	0.0%	0.3	13.5	8
177593	81	4.2	2.2	52%	1.4	N/A	4.7%	0.0%	0.5	1.2	<5
178580	83	2.8	2.7	97%	0.7	N/A	0.2%	0.0%	0.0	0.0	<5
178583	83	99.0	87.7	89%	0.6	3.0	0.2%	0.0%	0.1	0.6	33
178590	81	7.0	4.9	71%	1.5	N/A	0.0%	0.0%	0.3	0.7	<5
	83	157.7	138.1	88%	0.5	2.2	0.5%	0.0%	1.4	0.5	73
178593	83	0.9	0.8	92%	0.2	N/A	2.0%	0.0%	0.0	8.9	<5
	85	12.5	11.8	95%	2.3	N/A	0.4%	0.0%	0.8	9.5	<5
178600	85	50.7	38.5	76%	2.5	N/A	0.3%	0.0%	0.9	19.0	<5
179523	84	273.2	159.4	58%	29.5	24.8	0.1%	0.0%	0.0	0.0	11

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

May
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
158573	***83***	***18.0***	***8.7***	***49%***	***N/A***	***N/A***	***0.1%***	***0.0%***	***3.0***	***0.2***	***<5***
159570	***81***	***43.5***	***21.7***	***50%***	***N/A***	***8.7***	***0.3%***	***0.0%***	***8.0***	***7.5***	***5***
160573	83	43.5	21.4	49%	N/A	6.2	0.1%	0.0%	43.5	0.0	7
161560	88	2.1	1.1	54%	0.9	N/A	2.8%	0.0%	17.8	0.0	<5
162563	86	24.0	14.6	61%	3.7	N/A	1.1%	0.0%	2.1	2.3	<5
163550	88	35.0	18.9	54%	8.1	N/A	0.9%	0.0%	0.3	2.1	<5
163553	88	300.7	157.2	52%	5.6	27.3	1.4%	0.0%	0.3	6.4	11
163563	86	120.0	69.3	58%	5.5	15.0	0.9%	0.1%	3.7	2.0	8
163570	86	428.4	239.4	56%	4.0	13.0	1.5%	0.1%	0.4	2.8	33
164550	88	303.4	158.8	52%	6.9	37.9	1.3%	0.0%	0.2	22.3	8
164553	88	24.0	15.1	63%	5.3	N/A	1.9%	0.0%	0.0	5.8	<5
164563	85	10.8	6.3	59%	N/A	N/A	2.9%	0.0%	1.0	4.7	<5
164570	82	7.1	3.6	51%	2.0	N/A	0.6%	0.4%	7.3	4.9	<5
	86	18.8	9.2	49%	5.8	N/A	0.4%	0.1%	0.4	6.2	<5
165540	82	69.6	41.1	59%	N/A	7.0	3.7%	0.0%	0.0	0.1	10
165543	82	266.1	148.8	56%	N/A	5.1	2.8%	0.0%	0.0	1.9	52
	88	16.4	9.2	56%	4.8	N/A	4.8%	0.0%	0.0	6.9	<5
165570	82	4.4	2.1	49%	2.6	N/A	2.6%	4.1%	0.0	0.0	<5
165573	82	6.5	4.3	66%	2.0	N/A	0.8%	0.0%	1.4	20.3	<5
	85	10.3	4.6	45%	3.1	N/A	0.8%	0.2%	0.1	4.4	<5
	86	106.9	65.5	61%	3.8	13.4	0.2%	0.1%	0.0	26.6	8
166540	82	52.5	32.6	62%	N/A	10.5	2.0%	0.0%	0.0	0.0	5
166563	84	11.2	5.8	52%	7.9	N/A	0.0%	0.0%	0.1	0.3	<5
166570	87	33.3	17.7	53%	4.6	N/A	0.6%	0.0%	0.0	1.4	<5
166573	83	4.4	2.2	49%	1.2	N/A	1.2%	0.0%	0.0	37.3	<5
	85	7.1	3.8	53%	2.4	N/A	0.6%	0.0%	0.0	1.3	<5
	86	26.2	16.2	62%	1.4	N/A	0.4%	0.0%	0.1	2.6	<5
166580	83	28.1	14.3	51%	1.5	3.1	0.1%	0.0%	0.2	18.1	9
	86	15.3	7.2	47%	4.1	N/A	0.8%	0.3%	0.1	85.6	<5
167563	87	7.0	3.4	48%	1.7	N/A	2.2%	0.0%	0.0	5.1	<5
167570	87	31.2	16.0	51%	4.0	N/A	0.1%	0.0%	0.0	3.5	<5
167573	87	37.7	19.9	53%	3.4	N/A	0.4%	0.0%	0.0	48.5	<5
167580	82	2.9	1.8	62%	0.4	N/A	2.2%	0.0%	0.0	0.0	<5
	87	49.7	23.0	46%	3.0	N/A	0.2%	0.2%	0.0	179.9	<5
168563	87	13.0	5.9	45%	2.2	N/A	1.5%	0.0%	0.0	0.0	<5
	88	20.8	9.4	45%	8.3	N/A	1.1%	0.0%	0.0	5.6	<5

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

Table VIII.5. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
168573	87	5.3	2.4	46%	1.1	N/A	1.9%	0.0%	0.0	256.6	<5
168580	82	7.0	3.5	50%	1.0	N/A	0.7%	0.0%	0.4	42.1	<5
	83	3.2	1.8	55%	0.9	N/A	0.8%	0.0%	0.3	26.6	<5
	86	2.6	1.5	57%	2.6	N/A	1.0%	1.2%	0.0	326.2	<5
	87	27.0	13.1	48%	7.7	N/A	0.5%	0.0%	0.0	27.6	<5
169570	82	5.1	3.1	61%	1.0	N/A	1.3%	0.0%	2.9	20.0	<5
170573	86	6.4	3.7	58%	3.2	N/A	1.4%	2.3%	0.2	50.8	<5
170583	83	0.4	0.2	48%	0.2	N/A	2.6%	0.0%	0.0	250.0	<5
171563	82	1.2	0.9	73%	0.3	N/A	1.9%	0.0%	0.0	7.5	<5
171570	88	186.5	186.1	100%	21.9	N/A	0.0%	0.0%	0.0	0.0	<5
172520	82	47.3	26.9	57%	N/A	N/A	0.4%	0.0%	0.0	0.0	<5
	84	140.8	78.0	55%	21.2	8.3	0.4%	0.0%	0.0	0.0	17
	87	27.5	17.6	64%	3.5	N/A	0.2%	0.0%	0.0	0.0	<5
172563	83	2.5	1.3	51%	0.3	N/A	1.3%	0.0%	0.0	30.0	<5
	88	93.0	80.3	86%	4.4	18.6	1.2%	0.0%	0.0	0.8	5
173520	83	4.1	3.5	85%	N/A	N/A	0.5%	0.0%	0.0	0.0	<5
	84	31.4	15.6	50%	11.6	N/A	0.7%	0.0%	0.0	0.0	<5
	87	9.0	4.2	47%	2.2	N/A	0.8%	0.0%	0.0	0.0	<5
173570	83	0.7	0.4	54%	0.1	N/A	0.7%	0.0%	0.0	0.0	<5
173580	83	2.2	1.6	72%	0.6	N/A	4.6%	0.0%	0.0	15.0	<5
174573	83	2.5	1.4	58%	0.7	N/A	0.6%	0.0%	0.0	0.4	<5
174580	83	4.4	3.2	73%	0.7	N/A	2.5%	0.0%	0.2	42.7	<5
	89	1.5	1.3	84%	2.3	N/A	0.1%	0.0%	0.0	0.0	<5
174583	83	0.9	0.6	66%	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
	87	107.6	107.3	100%	18.4	N/A	0.0%	0.0%	0.0	0.0	<5
175583	82	4.4	2.3	51%	0.4	N/A	2.4%	0.0%	0.0	87.3	<5
	87	57.8	57.7	100%	16.9	N/A	0.0%	0.0%	0.0	0.0	<5
176583	81	5.9	4.1	69%	1.1	N/A	0.0%	0.0%	0.0	0.0	<5
	82	4.2	3.6	86%	0.7	N/A	1.0%	0.0%	0.0	9.0	<5
	83	54.7	45.3	83%	1.2	7.8	0.6%	0.0%	0.0	0.6	7
	85	6.9	3.2	47%	3.6	N/A	0.2%	0.0%	0.0	0.0	<5
177583	82	4.2	3.4	81%	0.7	N/A	0.6%	0.0%	0.0	14.5	<5
	83	233.9	199.4	85%	0.9	4.8	0.6%	0.0%	0.1	2.0	49
	85	8.8	4.0	45%	1.5	N/A	0.6%	0.0%	0.0	0.5	<5
177590	82	1.9	1.4	72%	0.3	N/A	1.3%	0.0%	0.0	3.2	<5
	83	6.8	3.7	55%	0.3	N/A	0.2%	0.0%	1.5	12.4	<5
178583	83	4.5	3.5	78%	0.4	N/A	0.8%	0.0%	1.3	1.6	<5

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

May
PACIFIC COD
Data Table

Table VIII.5. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
178590	82	2.9	1.9	64%	0.2	N/A	0.4%	0.0%	0.0	0.0	<5
	83	40.0	33.2	83%	0.8	3.6	0.3%	0.0%	0.2	11.8	11
178593	82	15.1	10.5	69%	0.7	N/A	0.4%	0.0%	0.2	0.8	<5
	83	19.2	13.0	68%	0.6	3.8	1.2%	0.0%	2.3	32.3	5
	85	14.7	12.1	83%	4.9	N/A	0.4%	0.0%	0.4	0.2	<5
178600	82	4.6	2.9	63%	0.2	N/A	0.4%	0.0%	0.2	7.2	<5
	83	35.2	21.1	60%	1.0	5.0	1.0%	0.0%	6.0	98.9	7
179520	84	130.5	61.5	47%	20.3	10.9	1.5%	0.0%	0.0	0.0	12
179523	84	194.8	108.7	56%	23.3	16.2	1.0%	0.0%	0.0	0.0	12
	87	14.1	6.5	46%	4.7	N/A	0.2%	0.0%	0.0	0.0	<5
179603	83	4.0	2.3	58%	0.6	N/A	0.5%	0.0%	17.0	23.8	<5
180510	87	13.5	7.9	59%	2.6	N/A	0.3%	0.0%	0.0	0.0	<5
181510	81	3.8	2.0	53%	2.5	N/A	2.5%	0.0%	0.3	0.0	<5
183513	84	40.9	23.7	58%	10.1	N/A	0.2%	0.0%	1.9	0.0	<5

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

June
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
158570	***81***	***191.3***	***115.8***	***61%***	***N/A***	***10.6***	***0.1%***	***0.0%***	***0.2***	***0.0***	***18***
159563	***81***	***64.8***	***31.4***	***48%***	***N/A***	***6.5***	***0.8%***	***0.7%***	***1.7***	***0.0***	***10***
159570	***81***	***58.1***	***32.3***	***56%***	***N/A***	***11.6***	***0.0%***	***0.0%***	***0.6***	***0.1***	***5***
160560	83	344.2	180.8	53%	N/A	11.9	1.8%	0.0%	1.2	0.1	29
	85	11.9	6.8	58%	N/A	N/A	0.7%	0.0%	3.1	3.1	<5
	87	116.6	68.5	59%	5.8	16.7	0.8%	11.3%	0.2	0.0	7
	88	127.0	91.1	72%	6.2	15.9	0.1%	0.3%	0.1	0.0	8
160563	81	75.7	35.3	47%	N/A	N/A	0.2%	0.3%	0.9	0.2	<5
	83	642.6	360.3	56%	N/A	10.9	1.4%	0.0%	0.4	0.0	59
	85	20.3	11.2	55%	6.4	N/A	0.9%	2.8%	1.4	0.0	<5
	87	58.1	39.8	69%	10.2	N/A	1.1%	6.4%	0.0	0.0	<5
	88	95.9	63.8	67%	6.2	16.0	0.2%	3.9%	0.1	0.0	6
160570	85	40.1	19.6	49%	5.7	N/A	0.1%	0.0%	4.4	5.7	<5
161540	87	20.4	17.2	84%	9.1	N/A	0.4%	0.0%	0.1	0.0	<5
161560	83	114.5	79.8	70%	N/A	11.5	0.9%	0.0%	0.2	0.0	10
	86	4.2	2.4	58%	1.7	N/A	1.1%	0.0%	2.4	0.0	<5
	87	323.0	203.3	63%	7.2	17.0	0.4%	3.5%	0.0	0.0	19
	88	483.9	356.3	74%	6.7	16.7	0.8%	1.5%	0.5	0.0	29
	89	779.1	528.2	68%	10.0	23.6	0.7%	0.4%	0.6	0.8	33
162553	83	32.1	22.7	71%	N/A	N/A	1.4%	0.0%	0.8	0.1	<5
	87	88.5	51.5	58%	4.5	12.6	1.9%	1.5%	0.1	0.0	7
	88	136.2	109.4	80%	8.9	17.0	1.3%	0.4%	0.0	0.0	8
163550	83	43.3	23.8	55%	N/A	N/A	0.6%	0.0%	0.5	4.8	<5
	89	484.3	337.6	70%	12.9	40.4	2.0%	6.0%	0.0	0.2	12
163570	85	10.9	6.8	63%	1.6	N/A	0.2%	0.0%	23.5	3.5	<5
164550	89	325.8	232.3	71%	8.9	21.7	2.3%	3.3%	0.0	1.0	15
164560	84	11.1	8.8	79%	2.3	N/A	1.0%	0.1%	0.0	0.0	<5
164580	86	5.7	3.1	55%	N/A	N/A	3.1%	0.0%	0.4	2.3	<5
165543	81	36.9	25.8	70%	4.3	N/A	0.8%	0.0%	0.0	0.2	<5
	88	13.9	6.3	45%	11.1	N/A	0.1%	0.0%	0.1	0.0	<5
165550	88	5.0	3.1	62%	2.3	N/A	2.9%	0.0%	0.0	0.8	<5
165573	86	14.3	8.6	60%	2.6	N/A	0.1%	0.0%	0.1	1,133.4	<5
166573	86	85.2	45.3	53%	2.8	17.0	0.5%	0.0%	0.0	29.1	5
167570	86	12.9	6.5	50%	2.3	N/A	0.3%	0.0%	0.1	60.4	<5
167573	86	399.5	215.9	54%	3.7	18.2	0.2%	0.1%	0.0	130.9	22
	87	22.4	11.5	51%	2.1	N/A	0.8%	0.0%	0.0	24.7	<5
168553	82	1.3	0.9	69%	0.5	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.***

June
PACIFIC COD
Data Table

Table VIII.6. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
168563	86	15.0	7.6	50%	2.6	N/A	0.3%	0.0%	0.0	0.0	<5
	87	28.0	14.9	53%	4.4	N/A	0.8%	0.0%	0.0	1.2	<5
168573	86	150.0	76.1	51%	3.0	16.7	0.4%	0.0%	0.1	131.1	9
168583	86	63.9	31.6	49%	4.6	N/A	0.1%	0.0%	0.0	0.5	<5
	88	81.6	45.6	56%	4.1	N/A	1.2%	0.0%	0.0	20.2	<5
169563	87	61.1	60.6	99%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
169570	88	38.2	19.2	50%	4.7	N/A	0.4%	0.0%	1.4	19.5	<5
169580	87	4.9	2.5	50%	1.2	N/A	0.0%	0.0%	0.0	68.8	<5
169583	86	207.4	116.8	56%	5.4	18.9	0.1%	0.0%	0.1	18.1	11
	88	145.4	80.9	56%	5.4	29.1	1.5%	0.0%	0.0	5.5	5
169590	88	164.8	89.1	54%	3.9	23.5	1.4%	0.1%	0.0	10.7	7
170520	84	1.5	0.9	57%	2.3	N/A	3.2%	0.0%	1.3	0.0	<5
170563	87	120.4	119.6	99%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
170570	88	105.8	60.8	58%	3.3	13.2	2.1%	0.0%	0.3	4.8	8
170573	88	11.2	6.4	57%	2.1	N/A	0.6%	0.0%	0.2	0.0	<5
171523	83	0.5	0.3	62%	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
172520	84	766.8	425.0	55%	21.6	18.7	0.6%	0.0%	0.0	0.0	41
	87	913.9	666.5	73%	6.5	19.4	0.7%	0.0%	0.0	0.0	47
	88	731.4	515.0	70%	11.4	29.3	0.3%	0.0%	0.0	0.0	25
	89	6.4	4.9	77%	2.0	N/A	0.1%	0.0%	0.0	0.0	<5
173520	82	138.0	63.2	46%	N/A	27.6	0.0%	0.0%	0.0	0.0	5
	87	625.1	463.6	74%	5.0	22.3	0.4%	0.0%	0.0	0.0	28
173553	***84***	***4.1***	***2.9***	***71%***	***0.7***	***N/A***	***1.4%***	***0.0%***	***0.0***	***30.5***	***<5***
173563	84	12.8	7.9	62%	0.6	N/A	0.7%	0.0%	0.0	23.7	<5
173570	84	4.7	3.5	75%	0.4	N/A	2.6%	0.0%	0.0	8.9	<5
	85	3.3	2.3	69%	0.8	N/A	2.3%	0.0%	0.0	0.0	<5
173573	84	1.7	1.0	58%	0.3	N/A	3.8%	0.0%	0.0	1.8	<5
175580	84	5.4	4.1	77%	0.5	N/A	0.8%	0.0%	0.2	17.8	<5
175583	82	0.7	0.4	60%	0.2	N/A	0.6%	0.0%	0.0	1.4	<5
	84	33.8	20.0	59%	1.6	N/A	0.4%	0.0%	0.1	2.2	<5
175603	83	1.8	1.2	66%	0.3	N/A	0.0%	0.0%	0.6	12.2	<5
176583	84	22.6	14.0	62%	1.3	N/A	0.2%	0.0%	0.0	1.6	<5
176603	83	2.0	1.2	58%	0.3	N/A	0.0%	0.0%	0.0	49.0	<5
177583	81	2.9	1.6	54%	0.5	N/A	1.5%	0.0%	4.8	8.3	<5
	83	3.8	2.7	71%	0.2	N/A	2.2%	0.0%	0.0	12.6	<5
	84	134.6	113.0	84%	1.2	5.6	1.3%	0.0%	0.3	6.0	24

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

Table VIII.6. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
177590	84	8.9	8.0	89%	0.7	N/A	1.5%	0.0%	0.9	50.0	<5
177593	82	1.3	0.9	71%	0.2	N/A	5.9%	0.0%	13.1	0.8	<5
	85	6.6	5.0	76%	1.3	N/A	2.4%	0.0%	0.3	0.6	<5
177603	83	1.4	1.1	77%	0.2	N/A	0.0%	0.0%	0.0	48.6	<5
178513	89	2.5	1.5	60%	2.5	N/A	1.1%	0.0%	0.0	0.0	<5
178583	84	83.9	77.3	92%	1.6	7.6	0.8%	0.0%	0.5	65.4	11
178590	81	3.6	2.4	66%	0.7	N/A	2.5%	0.0%	0.0	141.1	<5
	82	6.5	4.4	68%	0.4	N/A	0.3%	0.0%	0.0	0.6	<5
	83	1.4	1.3	92%	0.2	N/A	0.8%	0.0%	0.0	108.6	<5
	84	137.7	119.4	87%	1.6	7.2	0.6%	0.0%	0.5	18.8	19
178593	82	34.9	21.1	61%	0.5	2.5	0.6%	0.0%	1.5	6.1	14
	83	15.2	10.7	70%	0.4	2.5	0.8%	0.0%	1.2	17.4	6
	84	3.0	2.8	93%	1.9	N/A	0.2%	0.0%	0.3	2.0	<5
178600	82	6.3	3.4	54%	0.5	N/A	0.2%	0.0%	0.2	2.1	<5
	83	71.8	45.5	63%	0.7	4.5	2.2%	0.0%	10.7	18.4	16
	84	154.9	92.8	60%	1.1	6.0	1.6%	0.0%	6.1	6.9	26
	85	3.5	1.6	47%	1.2	N/A	2.0%	0.0%	1.1	75.4	<5
178603	83	8.7	6.0	69%	0.5	N/A	0.6%	0.0%	1.3	10.0	<5
	84	243.4	138.6	57%	1.3	6.6	2.4%	0.0%	3.2	8.9	37
179523	83	13.0	12.1	93%	6.5	N/A	0.0%	0.0%	0.0	0.0	<5
	87	394.7	231.3	59%	9.7	28.2	1.1%	0.0%	0.0	0.0	14
	88	142.2	78.0	55%	14.0	17.8	0.6%	0.0%	0.0	0.0	8
179600	82	5.7	3.7	65%	0.4	N/A	2.0%	0.0%	2.1	0.9	<5
179603	83	37.0	22.0	59%	0.6	3.7	2.2%	0.0%	10.3	16.1	10
	84	51.9	31.0	60%	0.9	5.2	1.8%	0.0%	8.1	2.9	10
180510	87	7.7	4.3	56%	2.3	N/A	0.1%	0.0%	0.0	0.0	<5
181510	87	9.6	4.6	48%	3.2	N/A	0.0%	0.0%	0.0	0.0	<5
181513	88	55.5	30.7	55%	2.7	7.9	0.3%	0.0%	0.0	0.0	7
182513	84	38.7	36.7	95%	8.7	6.5	0.2%	0.0%	0.4	0.0	6
187523	***83***	***3.5***	***1.7***	***47%***	***1.2***	***N/A***	***0.2%***	***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
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
158573	***82***	***85.2***	***43.2***	***51%***	***N/A***	***17.0***	***0.9%***	***0.0%***	***1.6***	***0.0***	***5***
159563	***81***	***53.7***	***25.4***	***47%***	***N/A***	***10.7***	***0.4%***	***0.0%***	***1.3***	***0.5***	***5***
	83	***67.6***	***33.1***	***49%***	***N/A***	***11.3***	***2.8%***	***0.0%***	***0.3***	***0.0***	***6***
	86	***7.3***	***5.1***	***71%***	***1.2***	***N/A***	***2.4%***	***0.6%***	***2.2***	***0.4***	***<5***
	87	***22.7***	***11.8***	***52%***	***3.9***	***N/A***	***1.5%***	***0.0%***	***0.0***	***0.0***	***<5***
159570	***85***	***9.2***	***5.2***	***57%***	***2.9***	***N/A***	***1.1%***	***0.0%***	***10.0***	***2.0***	***<5***
159573	***82***	***44.0***	***20.6***	***47%***	***N/A***	***N/A***	***1.5%***	***0.0%***	***51.6***	***0.0***	***<5***
160560	83	40.7	24.3	60%	N/A	8.1	2.7%	0.0%	0.2	0.0	5
	84	251.0	177.0	71%	12.3	10.5	0.6%	0.0%	0.0	0.0	24
	85	31.7	19.0	60%	2.3	N/A	0.8%	0.1%	1.1	0.3	<5
	86	97.9	68.1	70%	2.6	7.5	2.6%	0.2%	0.5	0.0	13
	87	157.8	99.6	63%	4.8	13.2	1.4%	0.6%	0.1	0.0	12
160563	82	131.5	72.7	55%	N/A	16.4	3.9%	0.0%	0.0	0.0	8
	83	620.4	353.4	57%	N/A	8.5	1.5%	0.0%	0.4	0.0	73
	84	272.0	194.7	72%	12.6	10.5	2.7%	0.0%	0.1	0.0	26
	86	65.3	42.5	65%	2.3	6.5	3.0%	0.3%	0.4	0.0	10
	87	136.4	75.6	55%	4.7	12.4	2.8%	1.5%	0.0	0.0	11
160570	84	492.0	253.7	52%	23.8	14.9	0.2%	0.0%	2.9	1.9	33
	85	245.8	126.6	51%	2.7	11.7	0.1%	0.2%	3.9	3.5	21
160573	84	56.0	26.7	48%	24.5	N/A	0.0%	0.0%	6.8	0.6	<5
	85	85.0	48.2	57%	2.9	12.1	0.7%	0.6%	4.4	0.7	7
160580	85	33.9	17.5	52%	2.8	N/A	0.6%	0.1%	3.1	0.0	<5
161553	89	9.3	5.2	56%	4.4	N/A	0.4%	0.0%	5.9	0.1	<5
161560	87	408.3	290.7	71%	4.4	12.4	1.3%	0.5%	0.0	0.0	33
	88	129.3	95.4	74%	5.0	16.2	0.7%	1.4%	0.0	0.0	8
	89	578.7	380.9	66%	5.0	16.5	0.7%	4.2%	1.6	0.3	35
161563	84	11.0	7.1	65%	2.3	N/A	4.7%	0.0%	0.0	0.0	<5
161573	85	56.8	35.0	62%	3.3	N/A	1.6%	0.2%	1.7	0.1	<5
161580	85	34.8	20.8	60%	3.2	N/A	1.2%	0.0%	8.5	0.2	<5
162553	83	44.5	22.0	49%	N/A	7.4	2.8%	0.2%	0.2	0.0	6
	87	68.0	45.4	67%	4.1	11.3	3.9%	0.2%	0.1	0.0	6
162580	85	8.0	4.3	54%	2.0	N/A	2.2%	0.0%	0.6	0.0	<5
163550	83	21.6	10.0	46%	N/A	3.6	1.8%	0.0%	0.0	0.7	6
	89	100.0	66.8	67%	6.4	20.0	2.4%	0.8%	0.0	0.0	5
163580	84	8.7	4.9	56%	1.7	N/A	0.2%	0.2%	0.2	0.0	<5
	85	3.4	1.8	53%	0.9	N/A	13.2%	0.0%	5.3	0.0	<5
164540	89	11.3	8.7	77%	2.7	N/A	2.8%	0.9%	0.0	0.0	<5
164543	84	5.0	4.1	82%	1.3	N/A	0.9%	0.8%	0.0	0.2	<5

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

Table VIII.7. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
164550	89	465.9	320.3	69%	4.5	14.6	2.3%	0.5%	0.0	2.7	32
164553	89	76.4	49.0	64%	4.1	15.3	7.4%	0.0%	0.3	1.4	5
164580	84	19.3	9.3	48%	2.6	N/A	1.2%	0.1%	1.1	0.0	<5
164583	84	9.2	4.4	47%	2.1	N/A	0.4%	0.0%	0.0	0.0	<5
165543	81	3.6	1.8	50%	1.4	N/A	0.1%	0.0%	0.0	0.0	<5
	87	19.9	11.0	56%	7.4	N/A	2.7%	0.3%	0.0	1.3	<5
165560	81	545.5	254.7	47%	N/A	17.6	0.0%	0.0%	0.0	0.0	31
166580	83	13.5	7.8	58%	1.6	N/A	0.0%	0.0%	0.3	0.1	<5
167580	83	8.6	4.2	49%	1.9	N/A	0.0%	0.0%	0.2	1.2	<5
168580	88	32.8	15.5	47%	N/A	N/A	0.1%	0.0%	0.0	4.8	<5
168583	83	5.3	3.9	73%	2.4	N/A	0.1%	0.0%	0.0	0.4	<5
	88	26.9	14.8	55%	3.4	N/A	0.0%	0.3%	0.0	3.1	<5
169583	88	283.8	148.7	52%	3.1	18.9	0.3%	0.1%	0.0	19.0	15
169590	88	112.4	61.1	54%	3.5	18.7	0.5%	0.1%	0.0	133.3	6
170563	85	39.4	39.2	100%	7.3	N/A	0.0%	0.0%	0.0	0.1	<5
170570	88	18.8	10.8	57%	2.2	N/A	4.6%	0.0%	0.0	3.8	<5
170593	87	10.7	5.8	54%	2.4	N/A	0.0%	0.0%	0.0	397.8	<5
170600	87	70.0	35.5	51%	2.7	N/A	0.0%	0.0%	0.0	40.2	<5
171523	82	1.8	0.9	50%	0.6	N/A	2.4%	0.0%	1.7	0.0	<5
171563	85	100.9	99.6	99%	17.5	N/A	0.0%	0.0%	0.0	0.1	<5
172520	82	1,072.1	649.9	61%	N/A	21.0	0.4%	0.0%	0.0	0.0	51
	83	493.0	243.4	49%	N/A	16.4	0.4%	0.0%	0.0	0.0	30
	84	55.2	29.4	53%	19.5	N/A	0.1%	0.0%	0.0	0.0	<5
	87	745.7	503.9	68%	3.2	13.8	0.8%	0.0%	0.0	0.0	54
	88	33.2	21.6	65%	N/A	N/A	1.0%	0.0%	0.0	0.0	<5
172523	87	113.2	81.8	72%	2.8	14.2	2.6%	0.0%	0.8	0.0	8
172540	***83***	***200.5***	***123.9***	***62%***	***N/A***	***14.3***	***0.3%***	***0.0%***	***0.0***	***0.0***	***14***
172580	87	3.6	1.9	52%	1.2	N/A	4.4%	0.0%	0.0	0.0	<5
172590	84	0.2	0.1	60%	0.1	N/A	11.0%	0.0%	0.0	10.0	<5
172600	87	138.2	78.8	57%	3.2	19.7	0.3%	0.3%	0.4	55.6	7
172603	87	482.4	282.2	59%	2.6	16.6	0.5%	0.0%	0.8	194.8	29
173520	82	793.9	503.7	63%	N/A	22.7	0.3%	0.0%	0.0	0.0	35
	83	663.0	399.5	60%	N/A	17.9	0.4%	0.0%	0.0	0.0	37
	87	266.5	196.2	74%	3.6	14.0	0.8%	0.0%	0.0	0.0	19
173523	84	42.7	21.7	51%	6.1	N/A	0.6%	0.0%	0.0	0.0	<5
173583	84	5.4	2.5	46%	6.5	N/A	0.2%	0.0%	0.0	3.3	<5

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

July
PACIFIC COD
Data Table

Table VIII.7. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
173593	87	5.0	2.6	53%	1.7	N/A	1.2%	0.0%	6.6	732.4	<5
174583	84	0.2	0.1	50%	0.1	N/A	11.3%	0.0%	0.0	5.0	<5
175580	83	1.0	0.4	45%	0.8	N/A	0.0%	0.0%	0.0	11.0	<5
	86	10.3	7.1	69%	2.0	N/A	0.2%	0.0%	0.0	1.0	<5
175583	86	39.1	27.5	70%	2.1	N/A	1.1%	0.0%	0.0	0.9	<5
176583	82	9.9	7.3	73%	0.7	N/A	0.4%	0.0%	0.1	7.4	<5
	86	5.5	4.8	87%	1.8	N/A	0.1%	0.0%	0.0	0.0	<5
	87	63.3	56.5	89%	1.3	9.0	0.5%	0.0%	0.0	0.0	7
177573	82	4.0	3.1	77%	0.9	N/A	0.0%	0.0%	0.0	0.5	<5
177583	82	26.2	23.1	88%	0.4	2.6	0.6%	0.0%	0.0	1.1	10
	84	2.6	2.3	87%	0.5	N/A	0.3%	0.0%	0.0	10.0	<5
	86	18.9	14.8	78%	1.4	N/A	2.6%	0.0%	0.0	1.4	<5
	87	217.8	188.3	86%	1.8	9.5	1.5%	0.0%	0.0	0.1	23
177590	82	0.8	0.7	90%	0.1	N/A	0.0%	0.0%	0.0	100.0	<5
	87	13.5	7.4	55%	1.0	N/A	1.1%	0.0%	0.0	0.7	<5
178513	89	27.6	20.5	74%	5.8	N/A	0.3%	0.0%	0.0	0.0	<5
178583	84	15.5	10.6	68%	1.1	N/A	0.5%	0.0%	1.3	16.1	<5
178590	82	1.8	1.0	58%	0.4	N/A	3.1%	0.0%	0.0	2.8	<5
	84	72.0	50.2	70%	1.2	5.5	0.2%	0.0%	0.6	7.1	13
178593	82	1.4	0.7	51%	0.4	N/A	0.0%	0.0%	0.0	2.9	<5
	87	22.1	15.8	72%	1.7	N/A	0.7%	0.0%	0.5	0.5	<5
178600	82	6.2	4.0	64%	0.7	N/A	0.8%	0.0%	1.0	1.0	<5
	84	18.9	14.2	75%	0.6	3.8	3.6%	0.0%	31.0	34.5	5
	87	4.6	3.7	80%	1.2	N/A	0.9%	0.0%	0.4	0.0	<5
178603	84	34.8	21.0	60%	0.6	3.5	2.8%	0.0%	19.7	57.6	10
178610	***84***	***5.4***	***2.9***	***54%***	***0.8***	***N/A***	***3.2%***	***0.0%***	***1.9***	***49.3***	***<5***
179523	87	7.7	6.2	80%	9.2	N/A	0.0%	0.0%	0.0	0.0	<5
	88	7.4	3.5	47%	N/A	N/A	2.8%	0.0%	0.0	0.0	<5
179600	82	2.4	1.4	59%	0.3	N/A	0.0%	0.0%	0.0	1.7	<5
179603	84	10.4	7.0	67%	0.4	N/A	1.6%	0.0%	46.3	48.7	<5
180510	87	50.0	27.7	55%	1.7	10.0	1.0%	0.0%	0.0	0.0	5
180523	88	29.8	14.2	48%	17.0	N/A	0.1%	0.0%	0.0	0.0	<5
181510	82	1.4	0.9	68%	8.4	N/A	0.0%	0.0%	0.0	0.0	<5
181513	82	3.9	2.6	66%	1.2	N/A	0.0%	0.0%	0.0	0.0	<5
	84	14.0	8.6	61%	2.0	N/A	0.2%	0.0%	0.1	0.1	<5
	88	3.8	1.9	51%	N/A	N/A	2.3%	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.***

August
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
159563	***85***	***14.2***	***11.2***	***79%***	***3.5***	***N/A***	***1.0%***	***0.0%***	***0.0***	***0.2***	***<5***
159570	***85***	***16.4***	***8.6***	***52%***	***3.4***	***N/A***	***1.9%***	***0.0%***	***1.0***	***0.0***	***<5***
159583	***84***	***13.6***	***7.5***	***55%***	***3.4***	***N/A***	***0.0%***	***0.0%***	***0.0***	***0.0***	***<5***
160560	82	444.9	253.0	57%	N/A	12.4	1.6%	0.0%	0.2	0.0	36
160563	82	664.8	380.1	57%	N/A	11.9	3.5%	0.0%	0.4	0.0	56
160570	84	298.7	159.9	54%	13.5	13.6	0.2%	0.0%	9.4	0.6	22
161560	85	65.2	31.2	48%	3.4	N/A	0.9%	0.0%	0.1	0.1	<5
163560	82	7.4	4.7	64%	4.2	N/A	0.0%	0.3%	0.7	2.4	<5
	85	45.5	45.3	100%	18.8	N/A	0.0%	0.1%	0.0	0.0	<5
163573	84	12.2	6.4	52%	4.1	N/A	0.3%	0.0%	6.1	0.3	<5
164550	89	8.2	4.6	56%	1.9	N/A	1.9%	0.0%	0.0	114.6	<5
164570	83	20.1	9.5	47%	4.2	N/A	0.0%	0.0%	0.0	0.4	<5
164573	83	9.5	5.1	54%	3.8	N/A	0.0%	0.9%	0.6	0.7	<5
164580	84	4.3	2.4	55%	1.0	N/A	6.3%	0.0%	0.7	0.0	<5
165540	84	8.0	4.1	51%	3.5	N/A	6.3%	0.0%	0.0	0.0	<5
	87	8.9	6.4	72%	N/A	N/A	0.7%	0.2%	0.0	0.0	<5
	89	2.3	1.9	83%	1.1	N/A	10.6%	1.3%	0.0	0.0	<5
165543	81	1.3	1.0	78%	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
	84	47.0	33.0	70%	11.8	9.4	1.4%	0.4%	0.0	0.0	5
	89	10.0	6.6	66%	1.9	N/A	8.1%	0.6%	0.0	0.0	<5
165573	83	3.1	2.0	65%	1.3	N/A	0.2%	0.0%	1.0	0.3	<5
	85	6.4	2.9	45%	1.6	N/A	0.0%	0.0%	0.0	0.0	<5
166573	84	10.3	5.9	57%	2.3	N/A	0.0%	0.0%	10.2	0.1	<5
167580	86	159.5	88.8	56%	4.1	17.7	0.3%	0.0%	0.0	0.2	9
167583	86	13.1	6.1	47%	4.4	N/A	1.7%	0.8%	0.0	0.0	<5
168553	82	13.0	12.8	98%	13.0	N/A	0.0%	0.0%	0.0	0.0	<5
168560	86	151.3	138.5	92%	19.1	N/A	0.1%	0.0%	0.0	0.2	<5
169560	82	3.2	1.7	52%	2.1	N/A	0.0%	0.0%	0.0	1.6	<5
	89	2.3	1.8	77%	1.7	N/A	2.1%	0.0%	0.0	0.4	<5
170520	82	0.4	0.2	50%	0.1	N/A	3.6%	0.0%	0.0	0.0	<5
170560	84	2.8	1.4	49%	2.8	N/A	4.1%	0.0%	0.0	1.8	<5
	87	5.0	3.8	76%	1.2	N/A	0.4%	0.0%	0.0	0.6	<5
	89	39.1	23.0	59%	4.3	N/A	8.3%	0.0%	0.0	0.2	<5
171520	83	0.8	0.4	54%	0.7	N/A	0.0%	0.0%	0.0	0.0	<5
171523	82	1.4	0.9	61%	0.2	N/A	0.2%	0.0%	0.7	0.0	<5
	83	1.9	1.0	52%	0.9	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.***

August
PACIFIC COD
Data Table

Table VIII.8. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
171563	87	37.5	22.5	60%	2.3	N/A	0.6%	0.0%	0.0	0.2	<5
172520	82	391.8	193.2	49%	N/A	20.6	0.8%	0.0%	0.0	0.0	19
	83	539.0	386.1	72%	N/A	14.6	0.3%	0.0%	0.0	0.0	37
	87	151.4	104.6	69%	6.0	25.2	0.4%	0.0%	0.0	0.0	6
172523	87	11.6	11.6	100%	N/A	N/A	0.0%	0.0%	0.0	0.0	<5
172563	84	3.1	1.9	60%	0.6	N/A	0.0%	0.0%	0.0	0.0	<5
	87	1,970.0	1,748.4	89%	38.4	N/A	0.3%	0.0%	0.0	0.0	11
173520	82	178.6	96.1	54%	N/A	17.9	1.0%	0.0%	0.0	0.0	10
	83	306.0	147.9	48%	N/A	15.3	0.4%	0.0%	0.0	0.0	20
173563	87	48.4	39.3	81%	2.8	N/A	0.6%	0.0%	0.0	0.2	<5
173570	82	4.3	2.8	66%	0.5	N/A	0.0%	0.0%	0.2	1.2	<5
	84	6.5	3.3	51%	1.2	N/A	0.0%	0.0%	0.0	34.3	<5
	87	4.7	3.1	66%	0.9	N/A	1.4%	0.0%	0.0	0.4	<5
173580	83	1.8	0.9	49%	1.8	N/A	0.3%	0.0%	0.0	2.2	<5
	84	5.0	2.5	50%	2.4	N/A	0.1%	0.0%	0.0	3.0	<5
174583	84	7.9	4.8	60%	8.6	N/A	0.1%	0.1%	0.0	1.1	<5
175583	86	20.3	14.5	71%	2.1	N/A	1.0%	0.0%	0.0	3.3	<5
	87	0.9	0.7	81%	0.4	N/A	0.8%	0.0%	0.0	0.0	<5
176583	82	8.5	7.7	90%	0.7	N/A	0.1%	0.0%	0.0	0.0	<5
	84	3.5	2.8	80%	1.1	N/A	3.9%	0.0%	0.0	2.0	<5
	86	17.3	14.6	84%	2.0	N/A	1.1%	0.0%	0.1	0.0	<5
	87	5.9	4.9	82%	0.6	N/A	0.4%	0.0%	0.0	0.0	<5
176603	85	62.3	57.3	92%	19.7	N/A	0.0%	2.4%	0.0	0.7	<5
177583	82	37.3	29.3	79%	0.7	3.7	0.8%	0.0%	0.2	4.3	10
	84	10.1	9.0	89%	1.0	N/A	5.9%	0.0%	0.4	4.3	<5
	86	42.4	38.8	91%	2.2	N/A	1.4%	0.0%	0.0	0.0	<5
	87	41.2	34.1	83%	1.1	5.9	0.8%	0.0%	0.0	0.5	7
177590	82	1.1	0.9	84%	0.2	N/A	0.0%	0.0%	0.0	0.9	<5
	83	0.4	0.2	50%	0.2	N/A	0.0%	0.0%	0.0	0.0	<5
177593	87	4.4	2.5	57%	0.9	N/A	1.9%	0.0%	0.5	0.5	<5
178590	82	2.4	1.6	66%	0.4	N/A	0.0%	0.0%	0.0	0.8	<5
	87	8.5	7.6	90%	N/A	N/A	0.6%	0.0%	0.0	0.9	<5
178593	84	4.7	2.7	57%	0.5	N/A	1.2%	0.0%	1.7	5.5	<5
	87	1,070.4	514.2	48%	27.7	N/A	1.6%	0.0%	1.2	2.6	7
178600	87	19.5	13.1	67%	2.3	N/A	0.3%	0.0%	0.4	0.7	<5

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

September
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
160570	84	458.5	252.3	55%	10.7	13.9	0.7%	0.0%	5.4	2.1	33
161560	81	27.0	21.1	78%	N/A	N/A	0.0%	0.0%	13.3	3.3	<5
162573	84	4.7	3.1	66%	1.6	N/A	0.1%	0.0%	3.0	0.2	<5
163570	84	17.0	8.9	52%	3.3	N/A	0.0%	0.3%	0.4	0.0	<5
163573	84	58.6	31.9	54%	1.9	8.4	0.1%	0.2%	0.6	0.1	7
165540	84	11.3	5.3	47%	3.1	N/A	1.9%	0.0%	0.0	0.0	<5
	89	3.3	1.6	48%	3.3	N/A	4.0%	0.9%	0.0	4.2	<5
165543	82	0.4	0.3	80%	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
	83	58.5	33.1	57%	7.0	N/A	0.0%	0.0%	0.0	0.0	<5
	88	10.5	6.7	63%	N/A	N/A	0.6%	0.2%	0.0	0.0	<5
	89	17.7	8.5	48%	3.1	N/A	0.7%	0.1%	0.0	3.7	<5
165573	85	22.0	11.8	54%	4.9	N/A	1.8%	0.0%	0.4	0.2	<5
	86	23.3	12.3	53%	1.7	N/A	0.0%	0.1%	0.0	0.0	<5
165580	87	4.5	2.3	52%	0.9	N/A	0.9%	0.0%	0.0	0.0	<5
166543	88	11.5	7.6	66%	2.0	N/A	0.6%	0.0%	0.0	0.0	<5
166573	86	57.2	27.6	48%	2.6	N/A	0.0%	0.1%	0.0	1.5	<5
166580	84	5.0	2.7	53%	1.3	N/A	0.6%	0.0%	0.8	0.0	<5
	86	84.0	42.0	50%	2.8	14.0	0.4%	0.1%	0.0	0.4	6
167533	***84***	***2.0***	***1.5***	***76%***	***1.2***	***N/A***	***0.4%***	***0.0%***	***0.0***	***0.0***	***<5***
167550	86	98.5	97.3	99%	8.8	N/A	0.0%	0.0%	0.0	0.0	<5
167560	89	120.7	95.8	79%	5.3	17.2	1.7%	0.0%	0.0	16.0	7
167563	89	22.9	14.7	64%	2.9	N/A	2.6%	0.2%	0.0	92.5	<5
167580	85	40.9	22.0	54%	1.9	N/A	0.5%	0.0%	0.3	0.0	<5
	86	113.1	59.7	53%	2.8	14.1	0.5%	0.0%	0.0	0.1	8
168553	85	1.9	1.3	71%	1.3	N/A	0.0%	0.0%	0.0	0.0	<5
	86	100.8	99.9	99%	9.3	N/A	0.0%	0.0%	0.0	0.0	<5
168560	89	70.8	56.0	79%	5.6	11.8	0.6%	0.0%	0.0	1.2	6
168563	87	5.0	3.4	67%	1.5	N/A	7.6%	0.0%	0.0	0.0	<5
	89	14.5	10.9	75%	2.4	N/A	2.6%	0.0%	0.0	88.6	<5
169560	89	14.2	10.5	74%	2.3	N/A	4.9%	0.0%	0.0	32.3	<5
170560	85	22.2	15.4	69%	3.3	N/A	0.1%	0.0%	0.0	0.0	<5
	87	30.5	24.8	81%	3.2	N/A	1.0%	0.0%	0.0	0.0	<5
	89	26.3	17.0	64%	3.0	N/A	0.7%	0.0%	0.0	0.5	<5
170563	89	5.0	3.8	76%	5.0	N/A	1.9%	0.0%	0.0	4.8	<5
171523	89	14.7	14.1	96%	14.7	N/A	1.8%	0.0%	0.5	0.0	<5
171560	87	10.5	10.0	95%	1.7	N/A	0.3%	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.***

September
PACIFIC COD
Data Table

Table VIII.9. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
171563	87	54.6	43.3	79%	1.3	9.1	0.6%	0.0%	0.0	0.0	6
	89	10.0	9.3	93%	5.2	N/A	0.9%	0.0%	0.0	6.3	<5
172520	87	97.2	68.0	70%	5.1	16.2	0.6%	0.0%	0.0	0.0	6
172563	86	16.0	13.1	82%	3.3	N/A	0.5%	0.0%	0.0	0.3	<5
	87	41.5	38.3	92%	1.4	6.9	0.7%	0.0%	0.0	0.0	6
173520	89	15.1	7.5	50%	3.6	N/A	1.3%	0.1%	0.1	0.0	<5
173563	85	0.7	0.4	60%	0.4	N/A	0.7%	0.0%	0.0	0.0	<5
173570	82	5.4	2.5	46%	1.2	N/A	0.9%	0.0%	0.0	2.2	<5
173573	82	0.9	0.5	51%	0.3	N/A	5.9%	0.0%	0.0	35.6	<5
173583	89	67.4	54.6	81%	17.7	N/A	0.0%	0.2%	0.0	1.1	<5
175580	82	3.7	2.8	75%	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
175583	82	11.3	6.9	61%	0.7	N/A	1.4%	0.0%	0.0	19.9	<5
	83	30.2	14.0	46%	11.7	N/A	0.0%	5.0%	0.0	0.0	<5
	86	9.9	8.0	81%	2.4	N/A	0.1%	0.0%	0.0	0.0	<5
176583	82	3.0	2.6	86%	0.7	N/A	0.0%	0.0%	0.0	0.0	<5
	85	5.5	3.6	66%	0.6	N/A	1.0%	0.0%	0.2	15.8	<5
	86	63.0	46.8	74%	1.4	7.0	0.1%	0.0%	0.0	0.5	9
177583	82	2.7	1.5	54%	0.2	N/A	4.7%	0.0%	0.0	8.9	<5
	84	35.0	24.2	69%	1.5	5.8	0.6%	0.0%	0.3	1.2	6
	86	49.9	32.0	64%	1.1	5.0	0.8%	0.0%	0.2	0.2	10
	87	20.6	15.3	74%	1.0	4.1	1.2%	0.0%	0.3	2.6	5
177590	84	0.4	0.2	45%	0.1	N/A	0.0%	0.0%	5.0	0.0	<5
	85	8.3	4.7	56%	1.0	N/A	3.1%	0.0%	0.1	4.7	<5
177593	85	3.1	1.6	53%	1.2	N/A	1.5%	0.0%	0.3	4.2	<5
178583	87	9.7	8.4	87%	1.8	N/A	0.0%	0.0%	0.1	0.0	<5
178590	82	0.6	0.3	47%	0.2	N/A	0.0%	0.0%	0.0	1.7	<5
	86	4.8	4.0	84%	0.5	N/A	0.0%	0.0%	0.4	0.6	<5
	87	36.7	28.9	79%	1.1	6.1	0.2%	0.0%	0.5	6.5	6
178593	84	2.2	1.2	55%	0.5	N/A	0.0%	0.0%	0.9	0.0	<5
	86	7.5	3.4	46%	1.7	N/A	1.0%	0.0%	0.1	0.0	<5
178600	82	1.0	0.5	51%	0.1	N/A	0.0%	0.0%	4.0	2.0	<5
	86	2.4	1.6	66%	0.5	N/A	0.4%	0.0%	0.0	0.0	<5
	87	11.5	9.9	86%	2.1	N/A	1.6%	0.0%	0.5	4.4	<5
178603	82	1.3	0.8	61%	0.2	N/A	0.0%	0.0%	0.0	6.2	<5
	85	13.1	9.6	74%	3.0	N/A	0.9%	0.0%	0.4	0.7	<5

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

October PACIFIC COD Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
159570	***85***	***1.7***	***0.8***	***46%***	***0.6***	***N/A***	***6.4%***	***0.0%***	***0.0***	***1.8***	***<5***
163553	86	122.3	73.7	60%	9.0	N/A	0.1%	0.0%	4.0	0.6	<5
163570	84	0.6	0.4	63%	0.1	N/A	0.0%	0.0%	0.0	0.0	<5
165540	88	918.1	725.7	79%	5.1	27.8	2.4%	0.0%	0.0	0.3	33
	89	7.8	5.3	69%	0.7	N/A	4.1%	0.0%	0.0	0.6	<5
165543	82	32.5	19.7	60%	1.7	5.4	0.9%	0.0%	0.0	0.6	6
	84	7.6	4.4	58%	0.3	N/A	5.9%	0.0%	0.0	5.7	<5
	88	612.8	428.1	70%	4.8	23.6	1.7%	0.0%	0.0	3.5	26
	89	69.9	46.4	66%	1.0	3.3	5.5%	0.1%	0.0	0.9	21
165563	84	3.3	1.5	45%	1.1	N/A	0.0%	0.0%	0.0	0.3	<5
165570	83	5.6	2.6	46%	1.8	N/A	0.0%	0.0%	0.2	18.2	<5
166543	82	33.6	18.9	56%	2.7	N/A	0.3%	0.0%	0.0	0.3	<5
	83	13.9	8.0	57%	1.7	N/A	0.1%	0.0%	0.0	0.3	<5
	88	135.0	104.7	78%	6.0	N/A	0.8%	0.0%	0.0	1.7	<5
166560	87	3.2	1.6	52%	0.8	N/A	14.9%	0.0%	0.0	0.3	<5
166570	83	4.3	2.2	52%	1.0	N/A	0.3%	0.0%	0.0	23.5	<5
166580	84	12.0	5.4	45%	3.3	N/A	1.1%	0.0%	0.5	0.2	<5
	85	8.3	4.7	56%	1.1	N/A	0.1%	0.0%	0.2	60.2	<5
167550	89	91.0	46.1	51%	6.6	N/A	0.6%	0.0%	0.0	0.2	<5
167560	89	79.4	44.5	56%	4.4	13.2	0.9%	0.0%	0.0	21.2	6
167563	89	11.3	5.2	46%	3.8	N/A	0.2%	0.0%	0.0	5.5	<5
168540	89	2.0	1.5	78%	0.5	N/A	4.3%	0.0%	0.0	0.0	<5
168553	83	11.7	8.1	70%	0.3	2.0	5.4%	0.0%	0.0	9.1	6
	85	9.3	4.5	48%	1.0	N/A	0.6%	0.0%	0.0	0.3	<5
168560	87	20.3	11.3	56%	2.6	N/A	0.8%	0.0%	0.0	8.1	<5
	88	27.6	24.5	89%	11.4	N/A	0.1%	0.3%	0.0	0.2	<5
	89	15.9	12.1	77%	5.0	N/A	0.3%	0.0%	0.0	0.4	<5
169560	82	0.9	0.8	86%	0.6	N/A	0.0%	0.0%	3.3	0.0	<5
	87	109.2	57.1	52%	6.0	15.6	1.2%	0.0%	0.0	0.1	7
	88	24.0	13.6	57%	N/A	N/A	0.6%	0.0%	0.0	0.0	<5
170560	87	25.5	16.6	65%	1.9	N/A	2.0%	0.0%	0.0	0.0	<5
	89	2.7	1.6	58%	0.9	N/A	4.3%	0.0%	0.0	0.0	<5
170563	89	27.2	14.5	53%	9.1	N/A	0.0%	0.0%	0.0	0.4	<5
171523	81	0.5	0.2	46%	0.4	N/A	0.0%	0.0%	0.0	0.0	<5
171560	84	3.0	1.7	56%	0.6	N/A	0.9%	0.0%	0.0	0.7	<5
	85	16.3	12.8	79%	3.8	N/A	2.8%	0.0%	0.0	0.0	<5
	87	109.5	84.1	77%	1.6	9.1	0.7%	0.0%	0.0	0.0	12

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

October
PACIFIC COD
Data Table

Table VIII.10. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
171563	82	1.9	1.0	52%	0.4	N/A	3.9%	0.0%	0.0	2.6	<5
	84	3.2	2.7	84%	1.1	N/A	5.5%	0.0%	0.0	0.0	<5
	85	13.9	9.4	68%	1.4	N/A	0.5%	0.0%	0.0	0.0	<5
	87	91.1	74.8	82%	1.1	6.1	0.9%	0.0%	0.0	1.2	15
172520	87	167.5	93.3	56%	16.2	33.5	0.0%	0.0%	0.0	0.0	5
172563	82	4.8	3.7	78%	0.7	N/A	0.0%	0.0%	0.0	0.0	<5
	84	4.0	2.4	61%	0.7	N/A	0.0%	0.0%	0.0	0.0	<5
	86	4.8	2.5	53%	0.3	N/A	2.2%	0.0%	0.0	4.6	<5
	87	481.9	392.0	81%	1.3	7.4	0.5%	0.0%	0.0	0.7	65
173563	82	1.3	0.7	56%	0.4	N/A	0.2%	0.0%	0.0	1.5	<5
	84	8.0	5.8	72%	1.3	N/A	0.1%	0.0%	0.0	0.0	<5
	86	21.9	18.5	85%	0.8	4.4	1.6%	0.0%	0.0	0.1	5
	87	30.0	21.7	72%	1.0	4.3	0.8%	0.0%	0.0	0.3	7
173570	82	36.9	25.5	69%	0.6	3.7	0.1%	0.0%	0.0	1.9	10
	83	1.5	1.2	81%	0.5	N/A	0.0%	0.0%	0.0	2.0	<5
	84	21.6	14.5	67%	0.6	2.7	0.5%	0.0%	0.0	1.6	8
	86	41.9	39.0	93%	1.6	8.4	0.7%	0.0%	0.0	0.0	5
	87	116.1	89.4	77%	1.1	4.8	0.6%	0.0%	0.1	0.2	24
173573	84	5.1	3.3	65%	2.1	N/A	0.0%	0.0%	5.5	0.0	<5
	87	26.2	18.9	72%	1.4	N/A	2.0%	0.0%	0.2	0.6	<5
174573	82	5.0	3.8	77%	1.7	N/A	0.0%	0.0%	0.0	0.0	<5
	85	4.1	2.9	70%	1.0	N/A	0.0%	0.0%	0.0	0.0	<5
	87	15.2	12.8	84%	3.1	N/A	0.0%	0.0%	0.0	0.0	<5
175580	82	18.9	15.3	81%	0.5	2.4	0.1%	0.0%	0.1	0.8	8
	85	2.5	2.2	87%	0.6	N/A	1.3%	0.0%	0.0	0.0	<5
	86	3.8	2.7	70%	1.1	N/A	2.2%	0.0%	0.0	6.8	<5
	87	27.6	19.2	70%	0.9	3.9	0.5%	0.0%	0.0	0.3	7
175583	82	42.0	27.2	65%	1.0	5.3	0.9%	0.0%	0.2	0.4	8
	83	0.7	0.5	66%	0.1	N/A	1.3%	0.0%	0.0	27.1	<5
	85	23.0	13.1	57%	1.6	N/A	0.5%	0.6%	0.0	0.0	<5
	86	10.0	6.0	60%	0.8	N/A	1.1%	0.0%	0.0	8.2	<5
	87	35.3	22.2	63%	0.9	3.9	0.8%	0.0%	0.0	1.0	9
176583	83	0.4	0.3	80%	0.1	N/A	1.3%	0.0%	0.0	12.5	<5
	84	2.7	1.5	55%	0.5	N/A	0.0%	0.0%	0.0	0.0	<5
	85	12.5	7.3	58%	0.7	N/A	0.8%	0.2%	0.1	5.6	<5
176590	87	6.4	4.3	67%	1.3	N/A	0.2%	0.0%	0.0	4.7	<5
177583	84	121.6	81.3	67%	1.2	6.1	0.4%	0.0%	2.0	9.7	20
	85	66.7	40.9	61%	1.5	8.3	1.3%	0.4%	0.2	0.4	8
	86	11.3	7.4	65%	0.8	N/A	1.0%	0.0%	0.6	1.9	<5
	87	9.8	7.1	73%	1.0	N/A	1.1%	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.***

Table VIII.10. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
177590	84	28.0	27.3	98%	4.5	N/A	0.0%	0.0%	0.1	1.1	<5
	87	273.7	160.5	59%	1.1	7.0	1.1%	0.0%	0.1	3.9	39
177593	84	19.0	17.3	91%	6.7	N/A	0.0%	0.0%	0.0	0.0	<5
	87	148.6	87.4	59%	1.2	7.1	2.6%	0.0%	0.1	3.9	21
177600	87	5.9	3.6	61%	0.8	N/A	0.9%	0.0%	0.2	1.9	<5
178583	84	1.6	1.3	81%	0.3	N/A	0.0%	0.0%	5.6	8.1	<5
	87	13.2	10.3	78%	0.7	N/A	0.0%	0.0%	0.5	2.9	<5
178590	84	36.6	26.1	71%	0.8	4.1	0.1%	0.0%	4.9	41.9	9
	85	12.1	9.3	77%	2.5	N/A	0.0%	0.0%	0.2	0.0	<5
	86	4.1	3.4	82%	0.8	N/A	0.0%	0.0%	1.2	0.2	<5
	87	58.8	42.2	72%	0.6	3.7	0.6%	0.0%	0.4	1.7	16
178593	84	78.4	55.5	71%	3.7	13.1	0.1%	0.9%	0.4	0.3	6
	85	35.0	19.0	54%	1.1	5.8	1.2%	1.1%	1.0	7.7	6
	86	2.1	1.4	68%	0.4	N/A	0.9%	0.0%	1.0	0.0	<5
	87	344.2	242.8	71%	0.9	5.6	1.7%	0.2%	4.0	3.4	62
178600	82	15.0	7.9	53%	0.3	2.1	1.8%	0.0%	3.5	6.5	7
	85	68.5	41.9	61%	0.9	5.3	2.5%	0.1%	2.8	19.8	13
	87	431.0	283.5	66%	0.7	4.7	2.0%	0.0%	0.8	25.9	92
178603	82	2.7	1.6	60%	0.2	N/A	0.3%	0.0%	3.7	25.2	<5
	85	43.6	27.6	63%	1.1	6.2	1.4%	0.0%	1.9	8.5	7
	87	196.6	123.7	63%	0.9	6.0	2.0%	0.0%	0.5	38.2	33
179603	82	4.7	2.6	56%	0.2	N/A	3.9%	0.0%	6.4	6.0	<5
182513	82	5.8	3.5	60%	1.8	N/A	1.2%	0.0%	0.0	0.3	<5

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

November
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
159570	***84***	***2.3***	***1.1***	***48%***	***0.6***	***N/A***	***0.1%***	***0.0%***	***0.0***	***0.0***	***<5***
163563	84	0.9	0.4	48%	0.3	N/A	0.0%	0.0%	0.0	17.8	<5
164550	86	13.2	6.7	51%	2.9	N/A	1.3%	0.0%	0.3	1.1	<5
164560	84	1.1	0.5	49%	0.4	N/A	1.2%	0.0%	0.0	14.5	<5
164570	83	47.6	28.4	60%	7.5	N/A	0.7%	0.0%	0.1	3.5	<5
165540	83	6.4	4.5	70%	2.0	N/A	2.9%	0.0%	0.0	1.6	<5
	88	61.8	41.3	67%	2.3	12.4	2.2%	0.0%	0.0	0.0	5
	89	45.3	28.2	62%	2.2	5.7	3.5%	0.0%	0.0	0.3	8
165543	81	21.3	11.4	53%	3.9	N/A	2.8%	0.0%	0.0	6.5	<5
	82	29.3	17.6	60%	3.3	N/A	0.6%	0.0%	0.0	1.4	<5
	83	378.1	259.1	69%	1.1	3.8	4.5%	0.0%	0.0	4.3	100
	85	3.6	1.8	51%	0.9	N/A	1.8%	0.0%	0.0	12.5	<5
	86	14.0	6.7	48%	2.0	N/A	0.0%	0.0%	0.0	1.1	<5
	88	387.8	319.8	82%	2.5	12.1	1.5%	0.0%	0.0	0.6	32
	89	263.2	196.2	75%	2.9	9.1	2.9%	0.0%	0.0	10.6	29
165550	88	8.9	7.1	80%	2.2	N/A	1.8%	0.0%	0.0	11.7	<5
	89	17.0	10.6	62%	1.8	N/A	1.3%	0.0%	0.0	24.4	<5
165560	84	1.1	0.6	51%	0.4	N/A	13.3%	0.0%	0.0	13.6	<5
165563	84	1.3	0.7	54%	0.4	N/A	0.0%	0.0%	0.0	5.4	<5
165570	83	8.8	4.4	50%	2.2	N/A	1.4%	0.0%	0.2	2.5	<5
165573	84	1.6	1.0	63%	0.5	N/A	1.7%	0.0%	0.0	0.6	<5
166543	83	28.4	17.8	63%	1.3	4.7	2.8%	0.0%	0.0	6.8	6
	84	3.0	1.5	50%	0.6	N/A	8.7%	0.0%	1.0	18.3	<5
	85	17.2	17.1	100%	6.9	N/A	0.0%	0.0%	0.0	0.0	<5
	89	25.0	14.7	59%	3.8	N/A	1.4%	0.0%	0.0	4.6	<5
166550	89	16.6	13.1	79%	5.5	N/A	6.0%	0.1%	0.0	331.9	<5
166563	87	10.1	5.8	57%	1.3	N/A	2.8%	0.0%	0.0	53.4	<5
166580	84	1.4	1.1	81%	0.8	N/A	0.2%	0.0%	1.4	0.7	<5
167543	89	3.9	2.0	53%	1.2	N/A	5.4%	0.0%	0.0	0.3	<5
167550	83	0.3	0.2	53%	0.2	N/A	4.4%	0.0%	0.0	0.0	<5
	89	90.8	57.0	63%	5.2	18.2	1.1%	0.0%	0.0	0.8	5
167563	87	18.4	10.4	56%	3.4	N/A	2.8%	0.0%	0.0	11.3	<5
168560	87	29.5	15.9	54%	6.9	N/A	0.0%	0.0%	0.0	0.1	<5
168563	87	20.3	10.1	50%	3.1	N/A	0.7%	0.0%	0.0	5.8	<5
169560	81	2.7	2.0	76%	0.4	N/A	1.1%	0.0%	0.0	0.0	<5
	85	0.4	0.2	50%	0.2	N/A	9.8%	0.0%	0.0	0.0	<5
170523	81	1.5	0.8	53%	0.7	N/A	7.0%	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.***

Table VIII.11. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
170553	81	32.9	22.0	67%	3.4	N/A	0.1%	0.0%	0.0	0.0	<5
170560	81	41.6	20.6	50%	2.0	8.3	1.0%	0.0%	0.2	0.0	5
	83	2.0	1.0	49%	0.9	N/A	18.2%	0.0%	0.0	0.0	<5
	84	21.9	10.7	49%	1.4	N/A	0.2%	0.0%	0.0	0.0	<5
	85	1.8	1.5	83%	1.0	N/A	0.0%	0.0%	0.0	0.0	<5
	86	24.7	15.9	64%	4.4	N/A	1.1%	0.0%	0.0	0.0	<5
	87	28.4	18.5	65%	1.5	N/A	2.7%	0.0%	0.0	0.3	<5
170563	81	12.0	6.3	53%	2.8	N/A	2.1%	0.0%	0.0	0.0	<5
171520	81	5.1	4.1	80%	0.6	N/A	0.0%	0.0%	0.0	0.0	<5
171523	83	1.6	0.9	56%	0.3	N/A	12.8%	0.0%	8.1	0.0	<5
171560	81	9.3	6.3	68%	1.0	N/A	0.0%	0.0%	0.0	0.0	<5
	84	17.5	12.0	69%	1.6	N/A	0.0%	0.0%	0.0	0.8	<5
	85	9.6	6.1	64%	1.6	N/A	1.3%	0.0%	0.1	0.0	<5
	86	5.7	3.8	68%	1.4	N/A	4.5%	0.0%	0.0	0.0	<5
	87	266.7	195.8	73%	1.3	6.7	1.7%	0.0%	0.0	0.1	40
171563	82	11.3	6.3	56%	0.7	N/A	1.1%	0.0%	0.0	2.2	<5
	84	6.9	4.8	69%	0.8	N/A	0.1%	0.0%	0.0	0.0	<5
	86	35.7	22.9	64%	2.4	N/A	1.5%	0.0%	0.0	4.2	<5
	87	89.5	65.4	73%	1.1	6.0	1.9%	0.0%	0.0	0.2	15
172520	81	16.6	13.4	81%	3.0	N/A	0.2%	0.0%	2.0	0.0	<5
172560	87	1.4	1.3	89%	0.3	N/A	0.6%	0.0%	0.0	0.0	<5
172563	81	7.5	6.3	84%	0.8	N/A	0.0%	0.0%	0.0	0.9	<5
	82	25.6	16.0	63%	0.5	3.2	0.3%	0.0%	0.1	8.4	8
	83	6.0	3.8	64%	0.5	N/A	1.8%	0.0%	0.0	0.5	<5
	84	72.1	47.2	65%	1.4	6.6	0.3%	0.0%	0.0	0.2	11
	86	233.7	180.7	77%	2.9	12.3	0.3%	0.0%	0.0	0.2	19
	87	451.6	370.5	82%	1.5	7.5	0.6%	0.0%	0.0	1.9	60
173563	82	7.2	5.5	77%	0.7	N/A	0.3%	0.0%	0.4	0.7	<5
	83	1.5	0.7	48%	0.2	N/A	0.0%	0.0%	0.0	0.7	<5
	84	43.6	29.5	68%	1.2	5.5	0.3%	0.0%	0.3	0.2	8
	86	6.6	4.5	68%	1.3	N/A	1.3%	0.0%	0.0	0.2	<5
	87	62.2	45.0	72%	1.5	5.7	0.7%	0.0%	0.0	7.1	11
173570	82	32.4	21.0	65%	0.7	4.1	0.3%	0.0%	0.0	9.8	8
	83	27.0	17.5	65%	0.5	2.1	0.2%	0.0%	0.3	0.3	13
	84	42.6	29.9	70%	1.2	4.7	1.5%	0.0%	0.1	2.4	9
	85	5.3	3.1	59%	1.0	N/A	0.6%	0.0%	0.0	0.0	<5
	87	225.6	177.2	79%	1.6	7.5	0.3%	0.0%	0.0	0.1	30

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

November
PACIFIC COD
Data Table

Table VIII.11. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
173573	82	44.3	32.3	73%	0.9	4.9	0.5%	0.0%	0.5	5.1	9
	83	6.9	4.9	71%	0.9	N/A	1.7%	0.0%	0.7	1.6	<5
	84	45.6	26.9	59%	2.9	7.6	0.2%	0.0%	0.0	0.1	6
	87	151.5	116.7	77%	2.2	10.1	0.4%	0.0%	0.0	0.0	15
174573	82	3.5	2.1	59%	0.9	N/A	0.4%	0.0%	0.0	4.9	<5
	83	5.3	3.5	66%	0.5	N/A	1.7%	0.0%	0.0	4.0	<5
	87	14.1	7.5	53%	3.5	N/A	17.4%	0.0%	0.0	0.0	<5
174580	84	22.1	12.5	57%	1.1	N/A	0.5%	0.0%	0.4	3.6	<5
175580	82	1.6	1.3	81%	0.2	N/A	1.1%	0.0%	0.0	10.0	<5
	84	68.9	40.8	59%	1.6	6.9	0.2%	0.0%	0.1	41.2	10
	85	16.1	10.7	66%	1.2	N/A	0.7%	0.0%	0.0	0.7	<5
	86	58.0	38.4	66%	1.5	9.7	0.9%	0.0%	0.0	14.1	6
	87	42.6	27.5	65%	0.9	4.3	0.3%	0.0%	0.0	0.4	10
175583	82	127.5	85.8	67%	0.8	4.7	1.3%	0.0%	0.0	12.5	27
	83	3.9	2.1	53%	0.4	N/A	0.4%	0.0%	1.3	27.7	<5
	84	83.3	58.7	70%	1.2	6.0	0.4%	0.0%	0.1	86.4	14
	85	12.2	8.2	68%	0.6	N/A	2.3%	0.0%	0.0	15.2	<5
	86	145.1	103.4	71%	2.0	8.5	0.9%	0.0%	0.0	3.3	17
	87	264.0	168.7	64%	1.0	5.3	0.6%	0.0%	0.0	1.4	50
176583	82	8.4	5.8	69%	0.4	1.7	0.8%	0.0%	0.0	5.5	5
	83	43.1	35.0	81%	0.5	3.1	0.6%	0.0%	0.1	5.2	14
	84	56.4	41.1	73%	0.9	4.3	0.2%	0.0%	0.1	2.6	13
	86	10.8	6.6	61%	0.7	N/A	1.3%	0.0%	0.0	0.0	<5
	87	44.1	28.6	65%	0.8	4.4	0.4%	0.0%	0.0	0.3	10
176590	87	5.7	3.1	54%	1.0	N/A	1.6%	0.0%	0.4	17.9	<5
177580	84	5.2	2.7	52%	1.1	N/A	0.5%	0.0%	0.0	0.2	<5
177583	82	4.1	3.1	76%	0.3	N/A	1.0%	0.0%	0.0	0.2	<5
	83	50.1	38.3	76%	0.5	3.1	0.5%	0.0%	0.0	4.7	16
	84	31.3	21.5	69%	0.9	4.5	0.8%	0.0%	0.7	11.0	7
	85	3.5	2.1	61%	1.2	N/A	1.4%	0.3%	0.0	0.0	<5
	86	49.5	31.9	64%	0.9	4.5	3.3%	0.0%	0.1	0.8	11
	87	49.7	34.7	70%	0.9	5.0	1.0%	0.0%	0.1	2.4	10
177590	86	4.4	2.2	51%	0.8	N/A	0.0%	0.0%	0.0	31.1	<5
	87	43.0	24.6	57%	0.8	4.8	3.5%	0.0%	0.2	8.9	9
177593	84	7.6	7.0	92%	1.4	N/A	0.0%	0.0%	0.0	0.0	<5
	85	16.6	9.2	56%	1.1	N/A	2.1%	0.1%	1.2	0.2	<5
	87	2.5	1.4	56%	0.5	N/A	9.9%	0.0%	0.0	5.2	<5
178583	84	6.3	4.6	72%	1.3	N/A	0.0%	0.0%	0.2	3.5	<5
	85	12.1	6.4	53%	2.5	N/A	0.0%	0.1%	0.6	0.0	<5
	87	5.6	3.6	64%	0.6	N/A	0.3%	0.0%	0.2	1.8	<5

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

Table VIII.11. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
178590	83	6.0	4.5	75%	0.7	N/A	0.0%	0.0%	1.5	6.5	<5
	84	18.9	12.5	66%	1.0	N/A	0.2%	0.0%	4.0	48.1	<5
	85	15.3	9.2	60%	1.2	N/A	0.6%	0.0%	0.5	0.1	<5
	86	15.9	11.3	71%	0.7	3.2	0.2%	0.0%	1.6	6.0	5
	87	33.4	24.1	72%	0.7	3.7	0.1%	0.0%	0.6	11.6	9
178593	83	1.6	1.0	62%	0.3	N/A	1.2%	0.0%	0.6	56.3	<5
	84	142.4	112.9	79%	1.4	7.1	1.0%	0.0%	2.1	0.8	20
	85	142.9	97.9	68%	1.1	6.2	1.3%	0.3%	3.2	4.8	23
	86	8.1	5.0	61%	2.4	N/A	0.1%	0.0%	0.2	0.0	<5
	87	80.5	52.9	66%	0.8	4.2	1.1%	0.1%	0.4	6.4	19
178600	82	5.0	3.2	64%	0.7	N/A	1.4%	0.2%	0.4	5.4	<5
	84	44.0	31.0	70%	1.2	5.5	0.9%	0.1%	1.8	21.0	8
	85	97.6	61.8	63%	1.1	8.1	1.7%	0.1%	1.1	28.3	12
	87	20.3	13.0	64%	0.7	3.4	0.4%	0.0%	1.0	16.4	6
178603	83	1.4	0.8	54%	0.6	N/A	0.4%	0.0%	2.1	6.4	<5
	85	32.8	18.1	55%	1.2	N/A	2.5%	0.1%	1.4	19.2	<5
179593	84	3.9	2.6	68%	0.7	N/A	0.2%	0.0%	4.9	2.6	<5
179603	84	11.9	7.0	59%	1.1	N/A	0.0%	0.0%	1.8	48.7	<5
180520	84	6.9	4.6	67%	0.7	N/A	13.9%	0.0%	7.7	0.0	<5
181513	84	10.3	6.6	64%	0.5	N/A	3.5%	0.0%	0.2	2.4	<5
182513	84	7.0	4.0	57%	0.6	N/A	0.7%	0.0%	0.0	0.4	<5

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

December
PACIFIC COD
Data Table

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

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
159563	***85***	***2.5***	***1.3***	***51%***	***0.6***	***N/A***	***0.0%***	***0.0%***	***3.6***	***1.6***	***<5***
159570	***84***	***4.0***	***2.2***	***55%***	***1.0***	***N/A***	***0.0%***	***0.0%***	***2.3***	***6.8***	***<5***
163563	84	23.4	13.2	56%	1.7	N/A	0.0%	0.0%	3.2	3.3	<5
164550	88	76.0	42.4	56%	4.2	12.7	3.5%	0.0%	0.0	35.3	6
164563	83	3.8	2.2	57%	1.3	N/A	2.6%	0.0%	0.0	48.4	<5
	84	10.7	5.4	50%	1.1	N/A	0.0%	0.0%	31.8	5.7	<5
164573	83	2.0	0.9	46%	1.0	N/A	2.6%	0.0%	8.5	1.0	<5
165543	88	326.6	211.0	65%	2.7	9.6	4.3%	0.0%	0.0	7.5	34
	89	308.9	172.5	56%	3.5	13.4	7.5%	0.0%	0.0	31.8	23
165550	88	76.4	46.4	61%	6.5	N/A	3.9%	0.0%	0.0	4.6	<5
	89	120.4	66.4	55%	7.2	20.1	5.2%	0.0%	0.0	13.4	6
165563	83	33.4	20.8	62%	1.3	6.7	4.1%	0.0%	0.1	29.2	5
165570	83	8.8	4.2	47%	2.4	N/A	0.5%	0.0%	0.1	0.8	<5
166540	88	4.5	3.9	88%	1.1	N/A	2.4%	0.0%	0.0	1.6	<5
	89	2.0	1.4	67%	0.7	N/A	2.0%	0.0%	0.0	0.0	<5
166570	83	8.7	4.5	51%	1.9	N/A	1.5%	0.0%	0.0	0.6	<5
166583	83	1.2	0.6	48%	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
167553	83	4.3	2.3	53%	0.8	N/A	20.1%	0.0%	0.0	33.5	<5
168553	84	23.2	18.1	78%	2.1	N/A	0.1%	0.0%	0.0	0.0	<5
168560	83	37.5	22.8	61%	0.9	2.9	2.0%	0.0%	0.0	47.2	13
	84	4.6	2.7	59%	1.3	N/A	0.0%	0.0%	3.0	74.3	<5
	86	2.8	1.6	56%	0.9	N/A	5.3%	0.0%	0.0	2.5	<5
	89	29.1	19.5	67%	1.6	5.8	6.7%	0.0%	0.0	10.1	5
168563	89	19.5	11.5	59%	1.9	N/A	9.3%	0.0%	0.0	30.1	<5
169560	83	156.3	114.2	73%	1.1	4.7	4.6%	0.0%	0.0	1.3	33
	84	50.1	32.3	64%	1.5	5.6	2.0%	0.0%	0.0	1.1	9
	86	7.7	4.1	54%	0.8	N/A	5.9%	0.0%	0.0	88.6	<5
	89	12.7	8.0	63%	1.1	N/A	5.3%	0.0%	0.0	0.3	<5
170560	82	7.0	4.0	57%	0.7	N/A	3.9%	0.0%	0.0	0.7	<5
	83	1.4	0.7	52%	0.7	N/A	1.8%	0.0%	0.0	0.0	<5
	84	4.6	2.9	63%	1.1	N/A	0.0%	0.0%	0.0	42.8	<5
171520	81	14.7	10.1	69%	7.1	N/A	0.0%	0.0%	0.0	0.0	<5
171523	85	42.0	41.9	100%	6.6	N/A	0.0%	0.0%	0.0	0.0	<5
171563	82	54.0	33.1	61%	1.2	6.0	1.2%	0.0%	0.0	7.2	9
	83	42.7	33.0	77%	0.7	3.6	1.0%	0.0%	0.0	3.5	12

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

Table VIII.12. (Continued.)

		Observed Catch (mt)			Total CPUEs MT Per		Bycatch Rates (% by weight)		(numbers/mt)		
Block	Yr	Total	PCod	(%)	Hour	Tow	Hal	Her	KC	TC	Tows
172563	81	7.5	3.9	52%	0.8	N/A	0.4%	0.0%	0.0	1.6	<5
	82	31.5	17.1	54%	0.9	4.5	1.5%	0.0%	0.0	41.9	7
	83	59.4	48.7	82%	0.7	3.7	1.2%	0.0%	0.0	0.6	16
173563	83	120.0	99.6	83%	0.9	4.6	1.1%	0.0%	0.0	0.9	26
	84	3.0	2.0	67%	0.9	N/A	0.2%	0.0%	0.0	0.0	<5
173570	82	1.3	0.8	64%	0.2	N/A	0.0%	0.0%	0.0	7.7	<5
	83	218.4	156.0	71%	0.8	4.0	1.8%	0.0%	0.0	1.4	55
173573	83	23.6	15.4	65%	0.8	3.9	1.6%	0.0%	0.0	0.3	6
174573	82	1.5	1.2	78%	0.3	N/A	0.0%	0.0%	0.0	0.0	<5
175580	83	7.4	6.7	91%	0.9	N/A	0.4%	0.0%	0.0	2.4	<5
175583	82	4.4	3.3	74%	0.8	N/A	3.5%	0.0%	0.0	80.0	<5
	83	11.5	9.7	84%	0.5	2.3	1.4%	0.0%	0.0	31.6	5
	85	6.0	2.8	46%	1.0	N/A	1.5%	0.0%	0.0	76.2	<5
176583	83	85.6	63.5	74%	0.8	4.5	0.8%	0.0%	0.1	1.4	19
	84	20.9	17.6	84%	0.8	4.2	0.6%	0.0%	0.0	7.3	5
176590	84	4.5	3.1	70%	1.0	N/A	0.0%	0.0%	0.0	18.9	<5
176593	84	3.7	2.2	59%	0.7	N/A	0.0%	0.0%	0.0	7.6	<5
177583	82	8.8	6.4	72%	0.6	N/A	2.0%	0.0%	0.0	0.9	<5
	83	157.6	128.6	82%	0.8	4.4	0.5%	0.0%	0.8	4.4	36
	84	3.2	2.4	74%	0.3	N/A	0.0%	0.0%	0.3	2.8	<5
177590	83	2.2	1.8	82%	0.4	N/A	2.2%	0.0%	1.4	69.5	<5
	84	1.4	1.2	85%	0.3	N/A	0.0%	0.0%	0.0	76.4	<5
177603	84	5.2	2.8	53%	1.0	N/A	0.0%	0.0%	0.0	48.1	<5
178583	83	7.1	6.1	86%	0.5	N/A	0.1%	0.0%	1.8	14.4	<5
178590	83	24.2	20.7	85%	0.6	2.7	0.2%	0.0%	1.6	31.1	9
178593	83	5.9	4.3	73%	0.5	N/A	0.8%	0.0%	0.5	25.3	<5
178600	83	29.0	22.0	76%	0.9	2.9	2.5%	0.0%	1.2	10.2	10
178603	84	3.3	2.2	68%	0.8	N/A	0.1%	0.0%	0.3	55.2	<5
179603	83	3.9	2.4	61%	0.3	N/A	4.0%	0.0%	1.0	5.4	<5
180520	81	5.2	3.5	67%	2.1	N/A	0.1%	0.0%	1.0	0.0	<5
181510	81	1.0	0.7	68%	0.8	N/A	1.8%	0.0%	0.0	0.0	<5
183513	83	10.2	9.8	96%	20.4	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.