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*CCGS W.E. RICKER* GULF OF ALASKA SALMON SURVEY,  
FEBRUARY 27 TO MARCH 17, 2002

by

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**ABSTRACT**

Welch, D. W., J. F. T. Morris, M. E. Thiess, M. Trudel, A. R. Ladouceur, M. C. Jacobs, T. B. Zubkowski, P. M. Winchell, and H. R. MacLean. 2004. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, February 27 to March 17, 2002. *Can. Data Rep. Fish. Aquat. Sci.* 1143: 56 p.

The Highseas Salmon program of Fisheries and Oceans Canada conducted a survey of Pacific salmon in the Gulf of Alaska during February 27 to March 17, 2002. The objectives of the surveys were to (1) evaluate the distribution and ecology of juvenile Pacific salmon (*Oncorhynchus spp.*) during their first year in the ocean, (2) describe the ambient oceanographic conditions, and (3) quantify the biomass of zooplankton, an important prey for Pacific salmon at sea. Fish, oceanographic, and zooplankton sampling was conducted at stations spanning the area from Juan du Fuca in southern British Columbia (48.4° N) to Frederick Sound in Southeast Alaska (57.2° N).

A total of 434 Pacific salmon were caught on the survey. Of these, 146 were juvenile coho salmon (*O. kisutch*) in their first winter in the ocean and 270 were chinook salmon (*O. tshawytscha*) under 350 mm in fork length.

Juvenile coho were caught in Juan du Fuca Strait, and both near shore and up the inlets off the west coast of Vancouver Island. No juvenile coho were caught north of Vancouver Island.

Juvenile chinook under 350 mm in fork length were also caught in Juan du Fuca Strait, and both on the shelf and up the inlets off the west coast of Vancouver Island. However, in contrast to juvenile coho, they were also caught further north in Southeast Alaska.

## RESUME

Welch, D. W., J. F. T. Morris, M. E. Thiess, M. Trudel, A. R. Ladouceur, M. C. Jacobs, T. B. Zubkowski, P. M. Winchell, and H. R. MacLean. 2004. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, February 27 to March 17, 2002. Can. Data Rep. Fish. Aquat. Sci. 1143: 56 p.

Le programme canadien des Saumons en Haute Mer de Pêches de Océans Canada a réalisé une étude sur les saumons du Pacifique dans le Golfe de l'Alaska du 27 février et le 17 mars 2002. Les objectifs de cette étude étaient de (1) évaluer la distribution et l'écologie des saumons du Pacifique (*Oncorhynchus* spp.) juvéniles durant leur première année en mer, (2) décrire les conditions océanographiques ambiantes, et (3) quantifier la biomasse de zooplancton, une proie importante des saumons du Pacifique dans l'océan. Nous avons mesuré les conditions océanographiques et échantillonné le zooplancton et les poissons à des stations situées entre le détroit de Juan de Fuca dans le sud de la Colombie-Britannique (48.4° N) et le détroit de Frédéric dans le Sud-Est de l'Alaska (58.3°N).

Un total de 434 saumons du Pacifique ont été capturés durant cette étude. De ce nombre, 146 étaient des saumons cohos (*O. kisutch*) juvéniles durant leur première année en mer et 270 étaient des saumons quinnats (*O. tshawytscha*) ayant une longueur à la fourche inférieure à 350mm.

Les saumons cohos juvéniles ont été capturés dans le détroit de Juan de Fuca, et près du rivage et dans les fjords de la côte ouest de l'Île de Vancouver. Aucun saumon coho juvénile n'a été capturé au nord de l'Île de Vancouver.

Les saumons Chinooks ayant une longueur à la fourche inférieure à 350mm ont également été capturés dans le détroit de Juan de Fuca, et sur le plateau continental et les fjords de la côte ouest de l'Île de Vancouver. Toutefois, contrairement aux saumons cohos juvéniles, ils ont aussi été capturés plus au nord dans le Sud-Est de l'Alaska.



## INTRODUCTION

The Highseas Program of Fisheries and Oceans Canada has conducted annual Pacific salmon surveys in the Gulf of Alaska since 1995<sup>(1-18)</sup>. The main objectives of these surveys were to collect information on (1) the distribution and ecology of Pacific salmon (*Oncorhynchus spp.*) during their ocean phase, (2) the ambient oceanographic conditions, and (3) the distribution and biomass of zooplankton.

This report documents the data collected for the survey completed during February 27 to March 17, 2002. The survey design comprised fish, oceanographic and zooplankton sampling along transects spanning the area from the west coast of Vancouver Island to Southeast Alaska.

## MATERIALS AND METHODS

### General Survey Information

Figures 1, 2, and 3 show the fishing, oceanographic and zooplankton stations, respectively, completed by the *CCGS W.E. Ricker* during the February 27 to March 17, 2002 survey. A total of 91 fishing stations, 87 oceanographic stations, and 84 zooplankton stations were completed.

The survey conducted scientific operations off the west coast of Vancouver Island, in Johnstone Strait, in Queen Charlotte Sound, in Hecate Strait, in Dixon Entrance, along the inside channels in Southeast Alaska, and on the shelf off Southeast Alaska. Three cross-shelf transects were completed: one off Estevan Point on the west coast of Vancouver Island, a second starting from a position within the Sea Otter Group in Queen Charlotte Sound and running through Triangle Island to the offshore; and a third off Baranof Island in Southeast Alaska.

### Fishing Gear and Fishing Operations

The survey was conducted on the *CCGS W.E. Ricker*, a stern trawler 58 m in length which is powered by a 2,500 H.P. model AH 40 Akasaka diesel engine.

The *CCGS W.E. Ricker* towed a mid-water trawl, originally manufactured by Cantrawl Nets Ltd., Richmond, BC, and later modified to a model 240 trawl by the fishing crew. The trawl has a heavy-duty front end of hexagonal web made from 3/8 in. (9.5 mm) and 5/16 in. (7.9 mm) Tenex rope, and a tapered body made-up of 64 in. (163 cm), 32 in. (81.3 cm), 16 in. (40.6 cm), 8 in. (20.3 cm) and 4 in. (10.2 cm) polypropylene sections, an intermediate section of 3 in. (7.6 cm) polypropylene, and a codend of 1.5 in. (3.8 cm) knotted nylon lined with 0.25 in. mesh (64 mm). The trawl has three 40 m bridles of 5/8 in. (1.6 cm) wire rope per side that are attached with a single hook-up to

5 m Jet doors. Typically, 100-150 m of 1.25 in. (3.2 cm) warp was paid out to tow the trawl at the surface.

The *CCGS W.E. Ricker* was able to tow the trawl at the surface at 5 knots ( $2.6 \text{ m s}^{-1}$ ) in good sea conditions, and this typically achieved a mouth opening of approximately 28 m wide by 16 m deep as measured acoustically by a Scanmar trawl eye mounted on the headrope. In rough weather, the trawl was towed at 15 m depths.

### **Oceanographic Sampling**

At oceanographic stations, the scientific crew (1) conducted CTD (conductivity-temperature-depth) casts, (2) collected surface seawater samples with a Niskin bottle for nitrate, phosphate, silicate, and salinity, and (3) filtered surface seawater on GF/F glass fibre filter disks for chlorophyll *a*.

Nitrate, phosphate, and silicate samples were collected in acid-washed glass test tubes, and the glass fiber disks were folded and placed in polypropylene scintillation vials. All these samples were stored frozen.

CTD casts were conducted to 250 m or within 5 m of the bottom with a Seabird SBE 911+ probe. Several calibration samples from selected CTD casts were collected over the course of the survey with Niskin bottles at depths where the salinities were stable.

### **Zooplankton Sampling**

Vertical bongo tows to approximately 150 m or within 10 m of the bottom were conducted with two 57 cm diameter, 253  $\mu\text{m}$  Nitex nets. One of the nets was equipped with a flowmeter.

Zooplankton collected from the net with the flowmeter were preserved in 10% formalin and sent to the zooplankton laboratory at the Institute of Ocean Sciences, Fisheries and Oceans Canada (Sidney, BC) for species classification and enumeration. Zooplankton taken from the net without flowmeter were sorted into four size fractions by successively sieving through 8.0, 1.7, 1.0, and 0.25 mm screens. Each size fraction was weighed wet, dried at  $60^\circ\text{C}$  for 48 hours, re-weighed, and stored in plastic bags for future stable isotope, bomb calorimetry, and proximate analyses.

## **RESULTS**

### **Salmon Catch Data**

Table 1 reports information on trawl tows and a summary of Pacific salmon catches for this survey. Tow information includes: station ID, transect name, sampling region, date and time, start latitude ( $^\circ\text{N}$ ) and longitude ( $^\circ\text{W}$ ), heading ( $^\circ\text{T}$ ; degrees true), and bottom depth (m). Station ID numbers consisted of the Pacific Biological Station

cruise designation (“HS200205” for, where HS stands for High Seas), followed by a tow number (e.g., “HS200205-JF01” for a tow #1 in Juan du Fuca, British Columbia. The station ID number serves as the primary key in the High Seas salmon database that links fishing tow information with the oceanographic and zooplankton tables.

For each tow, catch totals are provided for all chinook salmon (*O. tshawytscha*) (“CK”) that includes all ages and size classes, and separately for juveniles and adults of chum salmon (*O. keta*) (“CM”), coho salmon (*O. kisutch*) (“CO”), pink salmon (*O. gorbuscha*) (“PK”), and sockeye salmon (*O. nerka*) (“SE”). In this report, “juveniles” are defined as fish in their first winter in the ocean (age X.1+), while “adults” include all older age groups (age X.2+ or older). Age separation was determined based on examination of size distributions (fork length) which showed non-overlapping size modes for chum, coho, pink, and sockeye salmon. Chinook salmon were not divided into juveniles and adults based on size since there is considerable overlap among size modes that represent the multiple age groups.

The abbreviations for the regions in Tables 1, 3, and 4, and the CWT recovery regions in Table 5 are:

|      |  |
|------|--|
| ISEA | Inside channels of Southeast Alaska                      |
| SEA  | Southeast Alaska   |
| DE   | Dixon Entrance   |
| IBC  | Inside channels of the central coast of British Columbia |
| HS   | Hecate Strait  |
| QCSD | Queen Charlotte Sound                                    |
| JS   | Johnstone Strait   |
| VI   | west coast Vancouver Island                              |
| IVI  | inlets on the west coast of Vancouver Island             |
| JF   | Juan du Fuca   |

## Biological Data

Table 2 reports the detailed biological data collected from each Pacific salmon caught during the survey. Individual salmon were assigned a fish number which consisted of the cruise identifier (e.g., “HS200205”), followed hierarchically by tow number, species code, and sample number. For example, “HS200205-DE01-124-001” refers to tow number DE01 or tow #1 in Dixon Entrance, species code “124” for chinook salmon, and the sample number “001” (within tow and species). We used the following codes from Fisheries and Oceans’ Salmon Stock Assessment database: 108, pink salmon; 112, chum salmon; 115, coho salmon; 118, sockeye salmon; and 124, chinook salmon.

Biological data collected for each salmon includes (when available): species common name, fork length (mm), whole body weight (g wet), sex, stomach content weight (g wet), % water (based on the ratio of dry to wet whole body weight), coded wire

tag number (CWT; if present), pit tag number (if present), and observed fin clip (if present).

### **Catch Distributions**

Juvenile coho, were caught in Juan du Fuca Strait, off the west coast of Vancouver Island, and in Johnstone Strait (Figure 9). Juvenile coho catch rates were within the range of 10 to 100 fish per tow in Juan du Fuca Strait, and within the range of 1-10 fish per tow around Vancouver Island. No juvenile coho were caught north of Vancouver Island.

Juvenile chinook from 100 to 199 mm in fork length were caught within the range of 1-10 fish per tow off the west coast of Vancouver Island (Figure 11).

Juvenile chinook from 200 to 299 mm in fork length catches were highest off the west coast of Vancouver and in Sumner Strait, where they were caught within the range of 10 to 100 fish per tow (Figure 12). Juvenile chinook were caught occasionally within the range of 1-10 fish per tow in Juan du Fuca Strait, Johnstone Strait, and Dixon Entrance.

Chinook 300 mm and greater in fork length were caught occasionally within the range of 1-100 fish per tow over the survey range (Figures 13,14,15, and 16).

Juvenile pink, chum, and sockeye, defined in this report as age (X.1) salmon in their first winter at sea, were caught occasionally within the range of 1-10 fish per tow over the survey range (Figures 4, 5, and 7).

No adult chum or sockeye, defined in this report as salmon age X.2 or more, were caught (Figures 6 and 8).

### **Size Comparisons of Juvenile Salmon Among Regions**

Figure 18 shows the length frequencies for coho and chinook species of salmon caught on the cruise.

Juvenile coho (age X.1) averaged 318 mm in fork length, and ranged from 237 to 411 mm off the west coast of Vancouver Island. There was no significant size difference among the four following regions around Vancouver Island: Juan du Fuca, Johnstone Strait, the shelf on the west coast of Vancouver Island, and up inside the inlets on the west coast of Vancouver Island ( $F = 0.99$ ,  $p = 0.4$ ). No north to south size comparison is available, since no juvenile coho were caught further north than Vancouver Island.

Juvenile chinook under 400 mm representing a mixed age group population averaged 252 mm in fork length and ranged from 182 to 357 mm over the range of the survey. Due to the considerable overlap among size modes that represent multiple age

groups, it was not possible to make a regional comparison of sizes of juvenile chinook for specific ocean age classes.

### **CWT Recoveries**

Table 5 reports the details on the coded wire tag (CWT) salmon caught during the survey. Reported information includes: the coded wire tag number, the assigned fish number, species common name, the date and region of recovery, the fork length (mm) at capture, the release area, the name of the agency and hatchery that released the tagged fish, the brood year, and dates of first and second hatchery releases.

The abbreviations for release agencies in Table 5 are:

|       |  |
|-------|--|
| CDFO  | Canadian Department of Fisheries and Oceans      |
| COOP  | Washington Department of Fisheries - Cooperative |
| LUMMI | Lummi Tribe (WA)                                 |
| ODFW  | Oregon Department of Fisheries and Oceans        |
| WDFW  | Washington Department of Fish and Wildlife       |

The abbreviations for release areas in Table 5 are:

|      |                                    |
|------|------------------------------------|
| LOCR | lower Columbia R, Washington       |
| MPS  | mid-Puget Sound, Washington        |
| NOOK | Nooksack R – Saamish R, Washington |
| NASK | Nass R – Skeena R, BC              |
| WCVI | west coast Vancouver Island, BC    |

On this survey, 7 CWT chinook were recovered. Of these, 6 were recovered off the west coast of Vancouver Island. All six were age 0.1, ocean-type chinook. Of these six, 5 had been released from west coast Vancouver Island hatcheries in the spring of 2001; and 1 had been released from a hatchery within the basin of the lower Columbia River in the fall of 2001. The six age 0.1 chinook averaged 242 mm in fork length, and ranged from 215 to 262 mm.

One CWT chinook was recovered inside Southeast Alaska. This age 1.1, stream-type chinook had been released within the Nass – Skeena river region in northern British Columbia in the spring of 2001. It was 334 mm in fork length.

Nine CWT coho were recovered in Juan du Fuca and off the west coast of southern Vancouver Island. All 9 were age 1.1. Of these nine, 5 had been released from hatcheries in Puget Sound, 3 from hatcheries on the Nooksack - Saamish river system in Washington State, and 1 from a hatchery on the Cowlitz river in the Columbia River basin in the spring of 2001.

## Oceanographic Data

Table 3 reports the physical oceanographic data collected during the survey, including the station ID number, transect, region, the date and time in UTC, the latitude ( $^{\circ}\text{N}$ ) and longitude ( $^{\circ}\text{W}$ ), sea surface temperature (SST;  $^{\circ}\text{C}$ ), and salinity (SSS; ppt) taken from the CTD files, sea surface salinities (ppt) determined from the sample bottles that were used to calibrate the CTD probe, nitrate, silicate and phosphate concentrations ( $\mu\text{mol L}^{-1}$ ), and chlorophyll *a* ( $\mu\text{g L}^{-1}$ ).

The CTD files are available through the website of the Canadian Department of Fisheries and Oceans, Ocean Science and Productivity division (OSAP) at:

[http://www-sci.pac.dfo-mpo.gc.ca/osap/data/default\\_e.htm](http://www-sci.pac.dfo-mpo.gc.ca/osap/data/default_e.htm)

## Zooplankton Data

Table 4 reports the zooplankton data by station collected by the Bongo tows, including the station ID number, transect, region, latitude ( $^{\circ}\text{N}$ ) and longitude ( $^{\circ}\text{W}$ ), bottom depth (m), the date and time, target depth (m), tow duration, wire angle (degrees), and volume of ocean water sampled in cubic meters that is calculated from the flow meter readings. Also shown are the dry weights (g) of zooplankton which were standardised to 1,000 cubic meters sampled for the 8.0, 1.7, 1.0, and 0.25 mm size fractions as well as for the total sample.

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Table 1. Tow positions and catch summaries of Pacific salmon for the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID    | Station Name        | Region | Date      | Time  | Latitude (°N) | Longitude (°W) | Heading (°T) | SOG (kts) | Bottom Depth (m) | CK all | CM Juv | CM ad. | CO Juv | CO Ad. | PK Juv | PK Ad. | SE Juv | SE Ad. |
|---------------|---------------------|--------|-----------|-------|---------------|----------------|--------------|-----------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HS200205JF01  | JORDAN RIVER        | JF     | 27-Feb-02 | 07:16 | 48.402        | 124.138        | 293          | 5.13      | 108              | 4      | 3      | 0      | 29     | 0      | 0      | 0      | 0      | 0      |
| HS200205JF02  | PORT SAN JUAN       | JF     | 27-Feb-02 | 09:50 | 48.508        | 124.468        | 289          | 5.55      | 114              | 3      | 1      | 0      | 67     | 0      | 0      | 0      | 0      | 0      |
| HS200205VI01  | CARMANAH            | VI     | 27-Feb-02 | 12:08 | 48.579        | 124.806        | 296          | 5.12      | 68               | 4      | 0      | 0      | 20     | 0      | 0      | 0      | 0      | 0      |
| HS200205VI02  | PACHENA             | VI     | 27-Feb-02 | 14:25 | 48.640        | 125.057        | 278          | 4.48      | 72               | 8      | 0      | 0      | 16     | 0      | 0      | 0      | 0      | 0      |
| HS200205EP12  | ESTEVAN PT          | VI     | 28-Feb-02 | 08:03 | 48.455        | 128.206        | 340          | 4.61      | 2566             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP11  | ESTEVAN PT          | VI     | 28-Feb-02 | 11:16 | 48.600        | 127.952        | 3            | 3.38      | 2594             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP10  | ESTEVAN PT          | VI     | 28-Feb-02 | 14:17 | 48.730        | 127.699        | 7            | 3.87      | 2544             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP09  | ESTEVAN PT          | VI     | 28-Feb-02 | 16:55 | 48.871        | 127.433        | 345          | 3.72      | 2212             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP08  | ESTEVAN PT          | VI     | 01-Mar-02 | 07:11 | 49.003        | 127.170        | 355          | 3.38      | 1965             | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP07  | ESTEVAN PT          | VI     | 01-Mar-02 | 09:23 | 49.095        | 126.994        | 351          | 3.93      | 639              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP06  | ESTEVAN PT          | VI     | 01-Mar-02 | 11:24 | 49.139        | 126.866        | 312          | 4.32      | 181              | 13     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP05  | ESTEVAN PT          | VI     | 01-Mar-02 | 13:36 | 49.177        | 126.808        | 322          | 4.24      | 140              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP04  | ESTEVAN PT          | VI     | 01-Mar-02 | 15:14 | 49.261        | 126.809        | 120          | 4.8       | 129              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP03  | ESTEVAN PT          | VI     | 01-Mar-02 | 17:01 | 49.305        | 126.721        | 136          | 4.37      | 110              | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP02  | ESTEVAN PT          | VI     | 01-Mar-02 | 18:20 | 49.338        | 126.660        | 120          | 4.76      | 75               | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205EP01  | ESTEVAN PT          | VI     | 01-Mar-02 | 19:13 | 49.337        | 126.566        | 112          | 4.21      | 53               | 14     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI01 | NOOTKA SD           | IVI    | 02-Mar-02 | 07:10 | 49.651        | 126.478        | 209          | 5.48      | 264              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI02 | NOOTKA SD           | IVI    | 02-Mar-02 | 09:00 | 49.601        | 126.591        | 344          | 5.07      | 117              | 0      | 0      | 0      | 5      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI03 | NOOTKA SD           | IVI    | 02-Mar-02 | 10:33 | 49.690        | 126.544        | 58           | 4.86      | 152              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI04 | ESPERANZA INLET     | IVI    | 02-Mar-02 | 14:13 | 49.887        | 126.810        | 233          | 5.15      | 248              | 21     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI05 | ESPERANZA INLET     | IVI    | 02-Mar-02 | 15:38 | 49.859        | 126.873        | 261          | 5.31      | 226              | 1      | 0      | 0      | 2      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI06 | ESPERANZA INLET     | IVI    | 02-Mar-02 | 17:40 | 49.857        | 126.922        | 245          | 5.32      | 248              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI03  | ESPERANZA           | VI     | 02-Mar-02 | 18:53 | 49.774        | 127.082        | 245          | 5.39      | 49               | 74     | 1      | 0      | 0      | 0      | 0      | 0      | 2      | 0      |
| HS200205IVI07 | QUATSINO SD         | IVI    | 03-Mar-02 | 07:10 | 50.510        | 127.698        | 247          | 4.98      | 113              | 33     | 0      | 0      | 3      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI08 | QUATSINO SD         | IVI    | 03-Mar-02 | 08:33 | 50.493        | 127.775        | 228          | 5.34      | 187              | 5      | 0      | 0      | 1      | 0      | 0      | 0      | 0      | 0      |
| HS200205IVI09 | QUATSINO SD         | IVI    | 03-Mar-02 | 09:46 | 50.471        | 127.887        | 263          | 5.39      | 167              | 12     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI04  | OFF QUATSINO SD     | VI     | 03-Mar-02 | 11:23 | 50.418        | 127.993        | 228          | 4.71      | 144              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI05  | VAN IS N - TOPKNOT  | VI     | 03-Mar-02 | 13:46 | 50.463        | 128.229        | 305          | 4.84      | 102              | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI06  | VAN IS N - BUSHY RK | VI     | 03-Mar-02 | 15:35 | 50.570        | 128.330        | 322          | 4.56      | 67               | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI07  | VAN IS N - C RUSSEL | VI     | 03-Mar-02 | 17:14 | 50.687        | 128.433        | 333          | 4.78      | 64               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205VI08  | VAN IS N - COX IS   | VI     | 03-Mar-02 | 18:58 | 50.721        | 128.522        | 265          | 5.72      | 90               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T07   | TRIANGLE IS         | VI     | 05-Mar-02 | 07:10 | 50.817        | 129.190        | 276          | 5.03      | 90               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T08   | TRIANGLE IS         | VI     | 05-Mar-02 | 09:39 | 50.747        | 129.407        | 247          | 5.19      | 1140             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T09   | TRIANGLE IS         | VI     | 05-Mar-02 | 12:10 | 50.615        | 129.560        | 273          | 5.34      | 1961             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T10   | TRIANGLE IS         | VI     | 05-Mar-02 | 14:35 | 50.545        | 129.789        | 270          | 5.49      | 2165             | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T11   | TRIANGLE IS         | VI     | 05-Mar-02 | 16:44 | 50.466        | 129.926        | 265          | 5.22      | 2459             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T12   | TRIANGLE IS         | VI     | 05-Mar-02 | 18:40 | 50.403        | 130.084        | 251          | 5.03      | 1700             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T06   | TRIANGLE IS         | QCSD   | 06-Mar-02 | 07:38 | 50.909        | 129.035        | 35           | 4.1       | 61               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Table 1. Tow positions and catch summaries of Pacific salmon for the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID    | Station Name | Region | Date      | Time  | Latitude (°N) | Longitude (°W) | Heading (°T) | SOG (kts) | Bottom Depth (m) | CK all | CM Juv | CM ad. | CO Juv | CO Ad. | PK Juv | PK Ad. | SE Juv | SE Ad. |
|---------------|--------------|--------|-----------|-------|---------------|----------------|--------------|-----------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HS200205T05   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 09:24 | 50.989        | 128.953        | 76           | 4.05      | 73               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T04   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 11:27 | 51.074        | 128.820        | 83           | 3.78      | 59               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T03   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 13:12 | 51.132        | 128.671        | 76           | 4.36      | 110              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T02   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 14:58 | 51.187        | 128.518        | 54           | 4.58      | 194              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205T01   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 16:32 | 51.226        | 128.429        | 45           | 4.77      | 174              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205QCS01 | CALVERT IS   | QCSD   | 06-Mar-02 | 18:52 | 51.383        | 128.250        | 12           | 4.11      | 127              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205HS01  | McGINNIS IS  | HS     | 07-Mar-02 | 07:09 | 52.304        | 128.852        | 235          | 4.96      | 92               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205H01   | HECATE ST    | HS     | 07-Mar-02 | 08:04 | 52.266        | 128.956        | 242          | 5.6       | 125              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205H02   | HECATE ST    | HS     | 07-Mar-02 | 10:40 | 52.248        | 129.384        | 288          | 4.25      | 161              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205H03   | HECATE ST    | HS     | 07-Mar-02 | 12:55 | 52.290        | 129.633        | 297          | 4.62      | 207              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205H04   | HECATE ST    | HS     | 07-Mar-02 | 15:34 | 52.359        | 129.884        | 291          | 5.2       | 196              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205H05   | HECATE ST    | HS     | 07-Mar-02 | 17:35 | 52.417        | 130.138        | 293          | 4.92      | 300              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205HS02  | LASKEEK BK   | HS     | 08-Mar-02 | 15:04 | 52.720        | 131.044        | 50           | 4.88      | 40               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205HS03  | LASKEEK BK   | HS     | 08-Mar-02 | 17:04 | 52.848        | 130.877        | 25           | 4.88      | 43               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205HS04  | LASKEEK BK   | HS     | 08-Mar-02 | 18:50 | 52.994        | 130.772        | 349          | 5.26      | 88               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205DE01  | McINTYRE BAY | DE     | 09-Mar-02 | 07:09 | 54.214        | 131.690        | 222          | 4.98      | 57               | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205DE02  | McINTYRE BAY | DE     | 09-Mar-02 | 08:52 | 54.141        | 131.873        | 265          | 5.06      | 42               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205DE03  | McINTYRE BAY | DE     | 09-Mar-02 | 10:43 | 54.154        | 132.095        | 258          | 5.68      | 41               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205DE04  | DIXON E      | DE     | 09-Mar-02 | 12:15 | 54.137        | 132.344        | 261          | 5.2       | 67               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA01 | CLARENCE ST  | ISEA   | 10-Mar-02 | 07:10 | 55.268        | 131.914        | 344          | 5.2       | 388              | 5      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA02 | CLARENCE ST  | ISEA   | 10-Mar-02 | 09:16 | 55.414        | 131.976        | 345          | 5.19      | 476              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA03 | CLARENCE ST  | ISEA   | 10-Mar-02 | 11:35 | 55.526        | 132.049        | 295          | 4.56      | 118              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA04 | CLARENCE ST  | ISEA   | 10-Mar-02 | 13:40 | 55.625        | 132.215        | 351          | 4.56      | 162              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA05 | CLARENCE ST  | ISEA   | 10-Mar-02 | 15:50 | 55.735        | 132.352        | 327          | 4.05      | 572              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA06 | CLARENCE ST  | ISEA   | 10-Mar-02 | 17:43 | 55.839        | 132.503        | 316          | 6.1       | 245              | 0      | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA07 | CLARENCE ST  | ISEA   | 10-Mar-02 | 18:52 | 55.928        | 132.617        | 310          | 4.87      | 383              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA08 | SUMNER ST    | ISEA   | 11-Mar-02 | 07:07 | 56.371        | 133.140        | 237          | 4.61      | 42               | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA09 | SUMNER ST    | ISEA   | 11-Mar-02 | 09:10 | 56.348        | 133.351        | 264          | 4.95      | 136              | 13     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA10 | SUMNER ST    | ISEA   | 11-Mar-02 | 11:16 | 56.371        | 133.621        | 308          | 4.04      | 142              | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA11 | SUMNER ST    | ISEA   | 11-Mar-02 | 13:39 | 56.315        | 133.684        | 184          | 4.93      | 314              | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA12 | SUMNER ST    | ISEA   | 11-Mar-02 | 15:43 | 56.140        | 133.707        | 184          | 5.18      | 152              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA13 | SUMNER ST    | ISEA   | 11-Mar-02 | 17:29 | 56.014        | 133.833        | 239          | 3.96      | 334              | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA14 | SUMNER ST    | ISEA   | 11-Mar-02 | 18:26 | 55.984        | 133.927        | 225          | 4.29      | 162              | 39     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA15 | FREDERICK SD | ISEA   | 12-Mar-02 | 07:09 | 56.938        | 134.540        | 14           | 4.79      | 120              | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA16 | FREDERICK SD | ISEA   | 12-Mar-02 | 09:10 | 57.076        | 134.347        | 30           | 5.12      | 124              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA17 | FREDERICK SD | ISEA   | 12-Mar-02 | 11:04 | 57.190        | 134.159        | 54           | 4.28      | 150              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA18 | CHATHAM ST   | ISEA   | 12-Mar-02 | 17:38 | 56.435        | 134.498        | 164          | 4.3       | 702              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| HS200205SEA19 | CHATHAM ST   | ISEA   | 12-Mar-02 | 19:15 | 56.341        | 134.390        | 184          | 3.73      | 463              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

Table 1. Tow positions and catch summaries of Pacific salmon for the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID    | Station Name | Region | Date      | Time  | Latitude<br>(°N) | Longitude<br>(°W) | Heading<br>(°T) | SOG<br>(kts) | Bottom<br>Depth (m) | CK<br>all | CM<br>Juv | CM<br>ad. | CO<br>Juv | CO<br>Ad. | PK<br>Juv | PK<br>Ad. | SE<br>Juv | SE<br>Ad. |
|---------------|--------------|--------|-----------|-------|------------------|-------------------|-----------------|--------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HS200205B01   | BARANOF IS   | SEA    | 13-Mar-02 | 07:06 | 56.255           | 134.884           | 336             | 5.39         | 147                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B02   | BARANOF IS   | SEA    | 13-Mar-02 | 08:29 | 56.290           | 134.946           | 236             | 4.27         | 142                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B03   | BARANOF IS   | SEA    | 13-Mar-02 | 10:03 | 56.245           | 135.055           | 0               | 8.05         | 142                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B04   | BARANOF IS   | SEA    | 13-Mar-02 | 11:41 | 56.214           | 135.162           | 233             | 3.53         | 189                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B05   | BARANOF IS   | SEA    | 13-Mar-02 | 13:25 | 56.155           | 135.283           | 232             | 4.04         | 306                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B06   | BARANOF IS   | SEA    | 13-Mar-02 | 15:13 | 56.088           | 135.434           | 232             | 4.17         | 344                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B07   | BARANOF IS   | SEA    | 13-Mar-02 | 16:34 | 56.060           | 135.512           | 218             | 4.03         | 470                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B08   | BARANOF IS   | SEA    | 13-Mar-02 | 18:03 | 56.013           | 135.611           | 226             | 4.21         | 919                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205B09   | BARANOF IS   | SEA    | 13-Mar-02 | 19:30 | 55.969           | 135.711           | 226             | 4.88         | 1342                | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205IBC01 | WRIGHT SD    | IBC    | 15-Mar-02 | 08:14 | 53.344           | 129.263           | 122             | 4.75         | 514                 | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205JS01  | JOHNSTONE ST | JS     | 17-Mar-02 | 07:03 | 50.545           | 126.706           | 123             | 3.09         | 422                 | 0         | 0         | 0         | 0         | 0         | 1         | 0         | 0         | 0         |
| HS200205JS02  | JOHNSTONE ST | JS     | 17-Mar-02 | 09:12 | 50.509           | 126.550           | 95              | 3.01         | 426                 | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205JS03  | JOHNSTONE ST | JS     | 17-Mar-02 | 11:13 | 50.503           | 126.329           | 96              | 3.38         | 284                 | 0         | 0         | 0         | 1         | 0         | 0         | 0         | 0         | 0         |
| HS200205JS04  | JOHNSTONE ST | JS     | 17-Mar-02 | 13:03 | 50.477           | 126.133           | 95              | 3.67         | 297                 | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| HS200205JS05  | JOHNSTONE ST | JS     | 17-Mar-02 | 14:45 | 50.418           | 125.982           | 115             | 5.79         | 184                 | 1         | 0         | 0         | 2         | 0         | 0         | 0         | 0         | 0         |
| Totals        |              |        |           |       |                  |                   |                 |              |                     | 279       | 6         | 0         | 146       | 0         | 1         | 0         | 2         | 0         |
| Overall total |              |        |           |       |                  |                   |                 |              |                     |           |           |           |           |           |           |           | 434       |           |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Fish Number             | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT     | Fin Clip |
|-------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|---------|----------|
| HS200205-DE01-124-001   | CHINOOK | 275         | 262                       | M   | 0.94                           |         |         |          |
| HS200205-DE01-124-002   | CHINOOK | 297         | 315                       | M   | 2.61                           |         |         |          |
| HS200205-DE01-124-003   | CHINOOK | 800         | 6870                      | M   |                                |         |         |          |
| HS200205-EP01-124-001   | CHINOOK | 230         | 143                       | F   | 1.71                           |         |         |          |
| HS200205-EP01-124-002   | CHINOOK | 240         | 162                       | M   | 7.71                           |         |         |          |
| HS200205-EP01-124-003   | CHINOOK | 242         | 195                       | F   | 3.55                           |         |         |          |
| HS200205-EP01-124-004   | CHINOOK | 228         | 139                       | M   | 2.09                           |         |         |          |
| HS200205-EP01-124-005   | CHINOOK | 236         | 151                       | F   | 3.79                           |         |         |          |
| HS200205-EP01-124-006   | CHINOOK | 217         | 130                       | M   | 5.2                            |         |         |          |
| HS200205-EP01-124-007   | CHINOOK | 215         | 127                       | F   | 2.49                           |         |         |          |
| HS200205-EP01-124-008   | CHINOOK | 194         | 88                        | M   | 0.67                           |         |         |          |
| HS200205-EP01-124-009   | CHINOOK | 254         | 196                       | M   | 6.79                           |         |         |          |
| HS200205-EP01-124-010   | CHINOOK | 212         | 112                       | F   | 1.55                           |         |         |          |
| HS200205-EP01-124-011   | CHINOOK | 219         | 135                       | M   | 5.8                            |         |         |          |
| HS200205-EP01-124-012   | CHINOOK | 250         | 189                       | M   | 3.62                           | 0.1     | T184701 | AD       |
| HS200205-EP01-124-013   | CHINOOK | 210         | 111                       | M   | 2.66                           |         |         |          |
| HS200205-EP01-124-014   | CHINOOK | 252         | 190                       | F   | 7.07                           |         |         |          |
| HS200205-EP02-124-001   | CHINOOK | 284         | 290                       | F   | 13.28                          |         |         |          |
| HS200205-EP02-124-002   | CHINOOK | 273         | 274                       | F   | 6.66                           |         |         |          |
| HS200205-EP02-124-003   | CHINOOK | 253         | 194                       | F   | 3.15                           |         |         |          |
| HS200205-EP03-124-001   | CHINOOK | 268         | 228                       | M   | 8.38                           |         |         |          |
| HS200205-EP06-124-001   | CHINOOK | 299         | 348                       | F   | 11.11                          |         |         |          |
| HS200205-EP06-124-002   | CHINOOK | 322         | 459                       | F   | 22.48                          |         |         |          |
| HS200205-EP06-124-003   | CHINOOK | 314         | 419                       | M   | 12.7                           |         |         |          |
| HS200205-EP06-124-004   | CHINOOK | 315         | 403                       | M   | 13.09                          |         |         |          |
| HS200205-EP06-124-005   | CHINOOK | 310         | 392                       | M   | 14.64                          |         |         |          |
| HS200205-EP06-124-006   | CHINOOK | 336         | 504                       | F   | 18.46                          |         |         |          |
| HS200205-EP06-124-007   | CHINOOK | 292         | 337                       | F   | 7.85                           |         |         |          |
| HS200205-EP06-124-008   | CHINOOK | 485         | 1372                      | F   | 37.4                           |         |         |          |
| HS200205-EP06-124-009   | CHINOOK | 283         | 321                       | F   | 9.32                           |         |         |          |
| HS200205-EP06-124-010   | CHINOOK | 330         | 472                       | F   | 15.53                          |         |         |          |
| HS200205-EP06-124-011   | CHINOOK | 291         | 322                       | F   | 12.3                           |         |         |          |
| HS200205-EP06-124-012   | CHINOOK | 274         | 266                       | F   | 11.64                          |         |         |          |
| HS200205-EP06-124-013   | CHINOOK | 775         | 5940                      | F   |                                |         |         |          |
| HS200205-EP08-124-001   | CHINOOK | 301         | 320                       | F   | 0.67                           |         |         |          |
| HS200205-EP08-124-002   | CHINOOK | 306         | 358                       | F   | 0.92                           |         |         |          |
| HS200205-ISEA01-124-001 | CHINOOK | 300         | 325                       | F   | 0.78                           |         |         |          |
| HS200205-ISEA01-124-002 | CHINOOK | 318         | 390                       | F   | 1.45                           |         |         |          |
| HS200205-ISEA01-124-003 | CHINOOK | 334         | 455                       | F   | 0.47                           | 1.1     | T184562 | AD       |

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| Fish Number             | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|-------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-ISEA01-124-004 | CHINOOK | 343         | 476                       | M   | 1.52                           |         |     |          |
| HS200205-ISEA01-124-005 | CHINOOK | 314         | 384                       | F   | 1.01                           |         |     |          |
| HS200205-ISEA08-124-001 | CHINOOK | 330         | 470                       | F   | 2.9                            |         |     |          |
| HS200205-ISEA09-124-001 | CHINOOK | 264         | 220                       | M   | 1.19                           |         |     |          |
| HS200205-ISEA09-124-002 | CHINOOK | 255         | 207                       | F   | 4.29                           |         |     |          |
| HS200205-ISEA09-124-003 | CHINOOK | 264         | 245                       | M   | 2.74                           |         |     |          |
| HS200205-ISEA09-124-004 | CHINOOK | 270         | 244                       | M   | 0.57                           |         |     |          |
| HS200205-ISEA09-124-005 | CHINOOK | 295         | 340                       | M   | 0.48                           |         |     |          |
| HS200205-ISEA09-124-006 | CHINOOK | 280         | 267                       | M   | 0.95                           |         |     |          |
| HS200205-ISEA09-124-007 | CHINOOK | 280         | 268                       | M   | 3.73                           |         |     |          |
| HS200205-ISEA09-124-008 | CHINOOK | 262         | 210                       | F   | 1.15                           |         |     |          |
| HS200205-ISEA09-124-009 | CHINOOK | 275         | 242                       | M   | 0.48                           |         |     |          |
| HS200205-ISEA09-124-010 | CHINOOK | 288         | 280                       | F   | 0.19                           |         |     |          |
| HS200205-ISEA09-124-011 | CHINOOK | 295         | 313                       | F   | 1.16                           |         |     |          |
| HS200205-ISEA09-124-012 | CHINOOK | 284         | 276                       | F   | 0.48                           |         |     |          |
| HS200205-ISEA09-124-013 | CHINOOK | 288         | 278                       | F   | 3.69                           |         |     |          |
| HS200205-ISEA10-124-001 | CHINOOK | 291         | 316                       | M   | 0.58                           |         |     |          |
| HS200205-ISEA10-124-002 | CHINOOK | 475         | 1208                      | F   | 8.34                           |         |     | AD       |
| HS200205-ISEA11-124-001 | CHINOOK | 262         | 222                       | M   | 4.51                           |         |     |          |
| HS200205-ISEA11-124-002 | CHINOOK | 255         | 203                       | M   | 4.24                           |         |     |          |
| HS200205-ISEA11-124-003 | CHINOOK | 660         | 3462                      | M   |                                |         |     |          |
| HS200205-ISEA13-124-001 | CHINOOK | 296         | 314                       | M   | 9.45                           |         |     |          |
| HS200205-ISEA13-124-002 | CHINOOK | 308         | 349                       | M   | 0.84                           |         |     |          |
| HS200205-ISEA13-124-003 | CHINOOK | 280         | 263                       | F   | 4.67                           |         |     |          |
| HS200205-ISEA14-124-001 | CHINOOK | 282         | 293                       | F   | 12.53                          |         |     |          |
| HS200205-ISEA14-124-002 | CHINOOK | 308         | 380                       | M   | 10.73                          |         |     |          |
| HS200205-ISEA14-124-003 | CHINOOK | 318         | 386                       | M   | 3.67                           |         |     |          |
| HS200205-ISEA14-124-004 | CHINOOK | 272         | 252                       | F   | 11.13                          |         |     |          |
| HS200205-ISEA14-124-005 | CHINOOK | 312         | 379                       | F   | 2.08                           |         |     |          |
| HS200205-ISEA14-124-006 | CHINOOK | 290         | 303                       | F   | 14.27                          |         |     |          |
| HS200205-ISEA14-124-007 | CHINOOK | 284         | 300                       | F   | 2.98                           |         |     |          |
| HS200205-ISEA14-124-008 | CHINOOK | 281         | 310                       | F   | 7.82                           |         |     |          |
| HS200205-ISEA14-124-009 | CHINOOK | 314         | 375                       | F   | 3.36                           |         |     |          |
| HS200205-ISEA14-124-010 | CHINOOK | 321         | 441                       | F   | 10.17                          |         |     |          |
| HS200205-ISEA14-124-011 | CHINOOK | 300         | 338                       | M   | 1.75                           |         |     |          |
| HS200205-ISEA14-124-012 | CHINOOK | 278         | 260                       | F   | 2.94                           |         |     |          |
| HS200205-ISEA14-124-013 | CHINOOK | 283         | 301                       | M   | 2.42                           |         |     |          |
| HS200205-ISEA14-124-014 | CHINOOK | 294         | 323                       | F   | 2.58                           |         |     |          |
| HS200205-ISEA14-124-015 | CHINOOK | 304         | 373                       | M   | 9.25                           |         |     |          |

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| Fish Number             | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT     | Fin Clip |
|-------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|---------|----------|
| HS200205-ISEA14-124-016 | CHINOOK | 278         | 273                       | M   | 3.93                           |         |         | AD       |
| HS200205-ISEA14-124-017 | CHINOOK | 301         | 337                       | M   | 3.38                           |         |         |          |
| HS200205-ISEA14-124-018 | CHINOOK | 281         | 279                       | F   | 3.87                           |         |         |          |
| HS200205-ISEA14-124-019 | CHINOOK | 279         | 268                       | F   | 2.58                           |         |         |          |
| HS200205-ISEA14-124-020 | CHINOOK | 300         | 359                       | F   | 9.47                           |         |         |          |
| HS200205-ISEA14-124-021 | CHINOOK | 323         | 396                       | F   | 3.86                           |         |         |          |
| HS200205-ISEA14-124-022 | CHINOOK | 285         | 284                       | M   | 3.27                           |         |         |          |
| HS200205-ISEA14-124-023 | CHINOOK | 309         | 338                       | M   | 6.44                           |         |         |          |
| HS200205-ISEA14-124-024 | CHINOOK | 315         | 405                       | F   | 3.32                           |         |         |          |
| HS200205-ISEA14-124-025 | CHINOOK | 293         | 329                       | M   | 4.58                           |         |         |          |
| HS200205-ISEA14-124-026 | CHINOOK | 281         | 286                       | M   | 2.72                           |         |         |          |
| HS200205-ISEA14-124-027 | CHINOOK | 285         | 298                       | M   | 8.22                           |         |         |          |
| HS200205-ISEA14-124-028 | CHINOOK | 250         | 202                       | M   | 5.72                           |         |         |          |
| HS200205-ISEA14-124-029 | CHINOOK | 277         | 286                       | M   | 8.57                           |         |         |          |
| HS200205-ISEA14-124-030 | CHINOOK | 295         | 328                       | F   | 2.16                           |         |         |          |
| HS200205-ISEA14-124-031 | CHINOOK | 284         | 265                       |     |                                |         |         |          |
| HS200205-ISEA14-124-032 | CHINOOK | 253         | 219                       |     |                                |         |         |          |
| HS200205-ISEA14-124-033 | CHINOOK | 259         | 235                       |     |                                |         |         |          |
| HS200205-ISEA14-124-034 | CHINOOK | 280         | 284                       |     |                                |         |         |          |
| HS200205-ISEA14-124-035 | CHINOOK | 259         | 212                       |     |                                |         |         |          |
| HS200205-ISEA14-124-036 | CHINOOK | 281         | 301                       |     |                                |         |         |          |
| HS200205-ISEA14-124-037 | CHINOOK | 270         | 260                       |     |                                |         |         |          |
| HS200205-ISEA14-124-038 | CHINOOK | 270         | 253                       |     |                                |         |         |          |
| HS200205-ISEA14-124-039 | CHINOOK | 258         | 230                       |     |                                |         |         |          |
| HS200205-ISEA15-124-001 | CHINOOK | 282         | 281                       | F   | 0.24                           |         |         |          |
| HS200205-IVI04-124-001  | CHINOOK | 218         | 130                       | F   | 2.1                            |         |         |          |
| HS200205-IVI04-124-002  | CHINOOK | 241         | 155                       | F   | 1.59                           |         |         |          |
| HS200205-IVI04-124-003  | CHINOOK | 213         | 123                       | F   | 3.45                           |         |         |          |
| HS200205-IVI04-124-004  | CHINOOK | 243         | 159                       | F   | 2.55                           |         |         |          |
| HS200205-IVI04-124-005  | CHINOOK | 225         | 125                       | F   | 2.15                           | 0.1     | T184340 | AD       |
| HS200205-IVI04-124-006  | CHINOOK | 217         | 117                       | F   | 2.59                           |         |         |          |
| HS200205-IVI04-124-007  | CHINOOK | 207         | 101                       | F   | 1.28                           |         |         |          |
| HS200205-IVI04-124-008  | CHINOOK | 213         | 120                       | F   | 1.58                           |         |         |          |
| HS200205-IVI04-124-009  | CHINOOK | 213         | 119                       | M   | 0.97                           |         |         |          |
| HS200205-IVI04-124-010  | CHINOOK | 214         | 109                       | M   | 1.21                           |         |         |          |
| HS200205-IVI04-124-011  | CHINOOK | 286         | 253                       | M   | 1.8                            |         |         |          |
| HS200205-IVI04-124-012  | CHINOOK | 262         | 211                       | M   | 0.97                           |         |         |          |
| HS200205-IVI04-124-013  | CHINOOK | 225         | 127                       | M   | 2.42                           |         |         |          |
| HS200205-IVI04-124-014  | CHINOOK | 213         | 107                       | M   | 1.86                           |         |         |          |

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| Fish Number            | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-IVI04-124-015 | CHINOOK | 243         | 173                       | F   | 2.1                            |         |     |          |
| HS200205-IVI04-124-016 | CHINOOK | 232         | 137                       | F   | 2.42                           |         |     |          |
| HS200205-IVI04-124-017 | CHINOOK | 228         | 139                       | F   | 2.45                           |         |     |          |
| HS200205-IVI04-124-018 | CHINOOK | 235         | 164                       | F   | 3.8                            |         |     |          |
| HS200205-IVI04-124-019 | CHINOOK | 236         | 157                       | M   | 2.19                           |         |     |          |
| HS200205-IVI04-124-020 | CHINOOK | 221         | 125                       | F   | 2.4                            |         |     |          |
| HS200205-IVI04-124-021 | CHINOOK | 200         | 102                       | M   | 1.64                           |         |     |          |
| HS200205-IVI05-124-001 | CHINOOK | 225         | 132                       | F   | 2.07                           |         |     |          |
| HS200205-IVI07-124-001 | CHINOOK | 223         | 125                       | M   | 0.08                           |         |     |          |
| HS200205-IVI07-124-002 | CHINOOK | 255         | 196                       | M   | 0.52                           |         |     |          |
| HS200205-IVI07-124-003 | CHINOOK | 239         | 152                       | M   | 0.26                           |         |     |          |
| HS200205-IVI07-124-004 | CHINOOK | 250         | 192                       | F   | 1.03                           |         |     |          |
| HS200205-IVI07-124-005 | CHINOOK | 244         | 177                       | F   | 0.56                           |         |     |          |
| HS200205-IVI07-124-006 | CHINOOK | 228         | 128                       | M   | 0.2                            |         |     |          |
| HS200205-IVI07-124-007 | CHINOOK | 229         | 132                       | F   | 0.29                           |         |     |          |
| HS200205-IVI07-124-008 | CHINOOK | 240         | 161                       | M   | 0.36                           |         |     |          |
| HS200205-IVI07-124-009 | CHINOOK | 248         | 180                       | F   | 0.42                           |         |     |          |
| HS200205-IVI07-124-010 | CHINOOK | 255         | 209                       | M   | 0.27                           |         |     |          |
| HS200205-IVI07-124-011 | CHINOOK | 227         | 140                       | M   | 1.58                           |         |     |          |
| HS200205-IVI07-124-012 | CHINOOK | 233         | 148                       | M   | 0.44                           |         |     |          |
| HS200205-IVI07-124-013 | CHINOOK | 248         | 181                       | F   | 0.15                           |         |     |          |
| HS200205-IVI07-124-014 | CHINOOK | 216         | 123                       | M   | 0.38                           |         |     |          |
| HS200205-IVI07-124-015 | CHINOOK | 230         | 134                       | M   | 0.43                           |         |     |          |
| HS200205-IVI07-124-016 | CHINOOK | 234         | 150                       | F   | 0.44                           |         |     |          |
| HS200205-IVI07-124-017 | CHINOOK | 251         | 188                       | M   | 0.51                           |         |     |          |
| HS200205-IVI07-124-018 | CHINOOK | 241         | 158                       | M   | 3                              |         |     |          |
| HS200205-IVI07-124-019 | CHINOOK | 243         | 168                       | F   | 0.32                           |         |     |          |
| HS200205-IVI07-124-020 | CHINOOK | 225         | 132                       | M   | 0.77                           |         |     |          |
| HS200205-IVI07-124-021 | CHINOOK | 231         | 142                       | F   | 0.46                           |         |     |          |
| HS200205-IVI07-124-022 | CHINOOK | 278         | 253                       | F   | 0.44                           |         |     |          |
| HS200205-IVI07-124-023 | CHINOOK | 216         | 116                       | F   | 0.21                           |         |     |          |
| HS200205-IVI07-124-024 | CHINOOK | 214         | 114                       | F   | 0.28                           |         |     |          |
| HS200205-IVI07-124-025 | CHINOOK | 244         | 170                       | M   | 0.57                           |         |     |          |
| HS200205-IVI07-124-026 | CHINOOK | 226         | 140                       | F   | 0.78                           |         |     |          |
| HS200205-IVI07-124-027 | CHINOOK | 222         | 129                       | M   | 0.61                           |         |     |          |
| HS200205-IVI07-124-028 | CHINOOK | 236         | 151                       | M   | 0.72                           |         |     |          |
| HS200205-IVI07-124-029 | CHINOOK | 216         | 114                       | M   | 0.33                           |         |     |          |
| HS200205-IVI07-124-030 | CHINOOK | 225         | 131                       | M   | 0.58                           |         |     |          |
| HS200205-IVI07-124-031 | CHINOOK | 240         | 158                       |     |                                |         |     |          |

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| Fish Number            | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-IV107-124-032 | CHINOOK | 230         | 130                       |     |                                |         |     |          |
| HS200205-IV107-124-033 | CHINOOK | 221         | 134                       |     |                                |         |     |          |
| HS200205-IV108-124-001 | CHINOOK | 227         | 128                       | F   | 0.37                           |         |     |          |
| HS200205-IV108-124-002 | CHINOOK | 240         | 163                       | F   | 0.67                           |         |     |          |
| HS200205-IV108-124-003 | CHINOOK | 235         | 151                       | F   | 0.58                           |         |     |          |
| HS200205-IV108-124-004 | CHINOOK | 219         | 123                       | F   | 0.34                           |         |     |          |
| HS200205-IV108-124-005 | CHINOOK | 223         | 129                       | F   | 0.59                           |         |     |          |
| HS200205-IV109-124-001 | CHINOOK | 217         | 120                       | M   | 0.37                           |         |     |          |
| HS200205-IV109-124-002 | CHINOOK | 215         | 110                       | M   | 0.37                           |         |     |          |
| HS200205-IV109-124-003 | CHINOOK | 236         | 147                       | M   | 0.28                           |         |     |          |
| HS200205-IV109-124-004 | CHINOOK | 246         | 167                       | F   | 0.28                           |         |     | AD       |
| HS200205-IV109-124-005 | CHINOOK | 226         | 127                       | F   | 0.38                           |         |     |          |
| HS200205-IV109-124-006 | CHINOOK | 208         | 93                        | M   | 0.47                           |         |     |          |
| HS200205-IV109-124-007 | CHINOOK | 248         | 173                       | M   | 0.1                            |         |     |          |
| HS200205-IV109-124-008 | CHINOOK | 231         | 144                       | F   | 0.68                           |         |     |          |
| HS200205-IV109-124-009 | CHINOOK | 245         | 175                       | F   | 0.56                           |         |     |          |
| HS200205-IV109-124-010 | CHINOOK | 227         | 142                       | F   | 0.49                           |         |     |          |
| HS200205-IV109-124-011 | CHINOOK | 227         | 129                       | F   | 0.26                           |         |     |          |
| HS200205-IV109-124-012 | CHINOOK | 450         |                           |     |                                |         |     |          |
| HS200205-JF01-124-001  | CHINOOK | 240         | 162                       | M   | 0.11                           |         |     |          |
| HS200205-JF01-124-002  | CHINOOK | 226         | 127                       | M   | 0.23                           |         |     |          |
| HS200205-JF01-124-003  | CHINOOK | 255         | 197                       | F   | 0                              |         |     |          |
| HS200205-JF01-124-004  | CHINOOK | 215         | 115                       | M   | 0.25                           |         |     |          |
| HS200205-JF02-124-001  | CHINOOK | 182         | 68                        | F   | 0.27                           |         |     |          |
| HS200205-JF02-124-002  | CHINOOK | 233         | 153                       | M   | 0.23                           |         |     |          |
| HS200205-JF02-124-003  | CHINOOK | 260         | 180                       | M   | 0.58                           |         |     |          |
| HS200205-JS02-124-001  | CHINOOK | 224         | 118                       | F   | 0.84                           |         |     |          |
| HS200205-JS04-124-001  | CHINOOK | 357         | 562                       | M   | 0.85                           |         |     |          |
| HS200205-JS05-124-001  | CHINOOK | 256         | 195                       | F   | 6.83                           |         |     |          |
| HS200205-T10-124-001   | CHINOOK | 315         | 411                       | F   | 1.13                           |         |     |          |
| HS200205-T10-124-002   | CHINOOK | 291         | 299                       | F   | 0.61                           |         |     |          |
| HS200205-T10-124-003   | CHINOOK | 601         | 2969                      | M   |                                |         |     |          |
| HS200205-VI01-124-001  | CHINOOK | 205         | 110                       |     |                                |         |     |          |
| HS200205-VI01-124-002  | CHINOOK | 220         | 123                       |     |                                |         |     |          |
| HS200205-VI01-124-003  | CHINOOK | 214         | 104                       |     |                                |         |     |          |
| HS200205-VI01-124-004  | CHINOOK | 608         | 2898                      | F   |                                |         |     |          |
| HS200205-VI02-124-001  | CHINOOK | 220         | 117                       | F   | 0.56                           |         |     | AD       |
| HS200205-VI02-124-002  | CHINOOK | 226         | 145                       | M   | 4.19                           |         |     |          |
| HS200205-VI02-124-003  | CHINOOK | 297         | 316                       | F   | 15.06                          |         |     |          |



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| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT      | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|----------|----------|
| HS200205-VI02-124-004 | CHINOOK | 191         | 84                        | F   | 0.47                           |         |          |          |
| HS200205-VI02-124-005 | CHINOOK | 221         | 127                       | F   | 0.72                           |         |          |          |
| HS200205-VI02-124-006 | CHINOOK | 236         | 152                       | F   | 0.21                           |         |          | AD       |
| HS200205-VI02-124-007 | CHINOOK | 215         | 119                       | M   | 2.34                           |         |          |          |
| HS200205-VI02-124-008 | CHINOOK | 228         | 134                       | F   | 0.53                           |         |          | AD       |
| HS200205-VI03-124-001 | CHINOOK | 258         | 220                       | F   | 9.62                           |         |          |          |
| HS200205-VI03-124-002 | CHINOOK | 289         | 343                       | M   | 1.99                           |         |          |          |
| HS200205-VI03-124-003 | CHINOOK | 230         | 161                       | F   | 6.43                           |         |          |          |
| HS200205-VI03-124-004 | CHINOOK | 215         | 124                       | M   | 3.64                           |         |          |          |
| HS200205-VI03-124-005 | CHINOOK | 232         | 162                       | F   | 4.22                           |         |          |          |
| HS200205-VI03-124-006 | CHINOOK | 258         | 208                       | M   | 4.17                           |         |          |          |
| HS200205-VI03-124-007 | CHINOOK | 242         | 185                       | F   | 1.91                           |         |          |          |
| HS200205-VI03-124-008 | CHINOOK | 197         | 104                       | F   | 2.5                            |         |          |          |
| HS200205-VI03-124-009 | CHINOOK | 215         | 114                       | M   | 4.78                           | 0.1     | T093249  | AD       |
| HS200205-VI03-124-010 | CHINOOK | 305         | 330                       | F   | 4.28                           |         | T930198? | AD       |
| HS200205-VI03-124-011 | CHINOOK | 229         | 147                       | M   | 4.31                           |         |          |          |
| HS200205-VI03-124-012 | CHINOOK | 294         | 310                       | F   | 10.21                          |         |          |          |
| HS200205-VI03-124-013 | CHINOOK | 242         | 176                       | M   | 4.51                           |         |          |          |
| HS200205-VI03-124-014 | CHINOOK | 262         | 222                       | F   | 5.52                           | 0.1     | T184340  | AD       |
| HS200205-VI03-124-015 | CHINOOK | 303         | 361                       | F   | 1.11                           |         |          |          |
| HS200205-VI03-124-016 | CHINOOK | 271         | 228                       | F   | 0.33                           |         |          |          |
| HS200205-VI03-124-017 | CHINOOK | 214         | 118                       | M   | 4.77                           |         |          |          |
| HS200205-VI03-124-018 | CHINOOK | 215         | 121                       | M   | 3.85                           |         |          |          |
| HS200205-VI03-124-019 | CHINOOK | 336         | 455                       | M   | 14.28                          |         |          |          |
| HS200205-VI03-124-020 | CHINOOK | 228         | 139                       | M   | 1.33                           |         |          |          |
| HS200205-VI03-124-021 | CHINOOK | 267         | 238                       | F   | 5.08                           |         |          |          |
| HS200205-VI03-124-022 | CHINOOK | 240         | 171                       | F   | 4.43                           |         |          |          |
| HS200205-VI03-124-023 | CHINOOK | 262         | 231                       | F   | 0.53                           | 0.1     | T184556  | AD       |
| HS200205-VI03-124-024 | CHINOOK | 238         | 170                       | M   | 3.47                           | 0.1     | T184360  | AD       |
| HS200205-VI03-124-025 | CHINOOK | 231         | 156                       | F   | 2.18                           |         | T??1248  | AD       |
| HS200205-VI03-124-026 | CHINOOK | 269         | 233                       | F   | 2.23                           |         |          |          |
| HS200205-VI03-124-027 | CHINOOK | 236         | 131                       | M   | 4.3                            |         |          |          |
| HS200205-VI03-124-028 | CHINOOK | 238         | 150                       | M   | 3                              |         |          |          |
| HS200205-VI03-124-029 | CHINOOK | 225         | 140                       | F   | 1.37                           |         |          |          |
| HS200205-VI03-124-030 | CHINOOK | 226         | 144                       | M   | 1.33                           |         |          |          |
| HS200205-VI03-124-031 | CHINOOK | 247         | 185                       |     |                                |         |          |          |
| HS200205-VI03-124-032 | CHINOOK | 267         | 243                       |     |                                |         |          |          |
| HS200205-VI03-124-033 | CHINOOK | 283         | 275                       |     |                                |         |          |          |
| HS200205-VI03-124-034 | CHINOOK | 208         | 119                       |     |                                |         |          |          |

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| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-VI03-124-035 | CHINOOK | 242         | 193                       |     |                                |         |     |          |
| HS200205-VI03-124-036 | CHINOOK | 222         | 137                       |     |                                |         |     |          |
| HS200205-VI03-124-037 | CHINOOK | 222         | 131                       |     |                                |         |     |          |
| HS200205-VI03-124-038 | CHINOOK | 229         | 148                       |     |                                |         |     |          |
| HS200205-VI03-124-039 | CHINOOK | 251         | 207                       |     |                                |         |     |          |
| HS200205-VI03-124-040 | CHINOOK | 222         | 146                       |     |                                |         |     |          |
| HS200205-VI03-124-041 | CHINOOK | 227         | 145                       |     |                                |         |     |          |
| HS200205-VI03-124-042 | CHINOOK | 227         | 139                       |     |                                |         |     |          |
| HS200205-VI03-124-043 | CHINOOK | 265         | 221                       |     |                                |         |     |          |
| HS200205-VI03-124-044 | CHINOOK | 212         | 122                       |     |                                |         |     |          |
| HS200205-VI03-124-045 | CHINOOK | 245         | 194                       |     |                                |         |     |          |
| HS200205-VI03-124-046 | CHINOOK | 255         | 217                       |     |                                |         |     |          |
| HS200205-VI03-124-047 | CHINOOK | 245         | 213                       |     |                                |         |     |          |
| HS200205-VI03-124-048 | CHINOOK | 205         | 105                       |     |                                |         |     |          |
| HS200205-VI03-124-049 | CHINOOK | 248         | 195                       |     |                                |         |     |          |
| HS200205-VI03-124-050 | CHINOOK | 210         | 127                       |     |                                |         |     |          |
| HS200205-VI03-124-051 | CHINOOK | 244         | 192                       |     |                                |         |     |          |
| HS200205-VI03-124-052 | CHINOOK | 227         | 166                       |     |                                |         |     |          |
| HS200205-VI03-124-053 | CHINOOK | 239         | 166                       |     |                                |         |     |          |
| HS200205-VI03-124-054 | CHINOOK | 223         | 148                       |     |                                |         |     |          |
| HS200205-VI03-124-055 | CHINOOK | 211         | 120                       |     |                                |         |     |          |
| HS200205-VI03-124-056 | CHINOOK | 225         | 111                       |     |                                |         |     |          |
| HS200205-VI03-124-057 | CHINOOK | 197         | 92                        |     |                                |         |     |          |
| HS200205-VI03-124-058 | CHINOOK | 237         | 159                       |     |                                |         |     |          |
| HS200205-VI03-124-059 | CHINOOK | 217         | 120                       |     |                                |         |     |          |
| HS200205-VI03-124-060 | CHINOOK | 199         | 94                        |     |                                |         |     |          |
| HS200205-VI03-124-061 | CHINOOK | 206         | 124                       |     |                                |         |     |          |
| HS200205-VI03-124-062 | CHINOOK | 203         | 104                       |     |                                |         |     |          |
| HS200205-VI03-124-063 | CHINOOK | 203         | 101                       |     |                                |         |     |          |
| HS200205-VI03-124-064 | CHINOOK | 198         | 88                        |     |                                |         |     |          |
| HS200205-VI03-124-065 | CHINOOK | 283         | 308                       |     |                                |         |     |          |
| HS200205-VI03-124-066 | CHINOOK | 259         | 183                       |     |                                |         |     |          |
| HS200205-VI03-124-067 | CHINOOK | 242         | 149                       |     |                                |         |     |          |
| HS200205-VI03-124-068 | CHINOOK | 215         | 133                       |     |                                |         |     |          |
| HS200205-VI03-124-069 | CHINOOK | 219         | 141                       |     |                                |         |     |          |
| HS200205-VI03-124-070 | CHINOOK | 200         | 104                       |     |                                |         |     |          |
| HS200205-VI03-124-071 | CHINOOK | 204         | 115                       |     |                                |         |     |          |
| HS200205-VI03-124-072 | CHINOOK | 332         | 496                       |     |                                |         |     | AD       |
| HS200205-VI03-124-073 | CHINOOK | 401         | 754                       |     |                                |         |     | AD       |

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| Fish Number             | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT     | Fin Clip |
|-------------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|---------|----------|
| HS200205-VI03-124-074   | CHINOOK | 289         | 353                       |     |                                |         |         |          |
| HS200205-VI05-124-001   | CHINOOK | 226         | 142                       | M   | 0.85                           |         |         |          |
| HS200205-VI05-124-002   | CHINOOK | 259         | 208                       | F   | 6.74                           |         |         |          |
| HS200205-VI05-124-003   | CHINOOK | 232         | 155                       | M   | 6.16                           |         |         |          |
| HS200205-VI06-124-001   | CHINOOK | 230         | 146                       | M   | 0.57                           |         |         |          |
| HS200205-VI06-124-002   | CHINOOK | 231         | 160                       | M   | 3.7                            |         |         |          |
| HS200205-ISEA06-112-001 | CHUM    | 227         | 111                       | F   | 1.51                           |         |         |          |
| HS200205-JF01-112-001   | CHUM    | 250         | 155                       | M   | 1.43                           |         |         |          |
| HS200205-JF01-112-002   | CHUM    | 250         | 156                       | F   | 1.88                           |         |         |          |
| HS200205-JF01-112-003   | CHUM    | 226         | 115                       | F   | 0.63                           |         |         |          |
| HS200205-JF02-112-001   | CHUM    | 239         | 140                       | M   | 1.21                           |         |         |          |
| HS200205-VI03-112-001   | CHUM    | 239         | 145                       |     |                                |         |         |          |
| HS200205-IVI02-115-001  | COHO    | 345         | 436                       | F   | 1.28                           |         |         |          |
| HS200205-IVI02-115-002  | COHO    | 282         | 260                       | F   | 0.36                           |         |         |          |
| HS200205-IVI02-115-003  | COHO    | 286         | 276                       | M   | 0                              |         |         |          |
| HS200205-IVI02-115-004  | COHO    | 308         | 296                       | F   | 0.87                           |         |         |          |
| HS200205-IVI02-115-005  | COHO    | 303         | 322                       | F   | 4.11                           |         |         |          |
| HS200205-IVI05-115-001  | COHO    | 289         | 295                       |     |                                |         |         |          |
| HS200205-IVI05-115-002  | COHO    | 290         | 299                       |     |                                |         |         |          |
| HS200205-IVI07-115-001  | COHO    | 330         | 416                       |     |                                |         |         |          |
| HS200205-IVI07-115-002  | COHO    | 328         | 388                       |     |                                |         |         |          |
| HS200205-IVI07-115-003  | COHO    | 346         | 462                       |     |                                |         |         |          |
| HS200205-IVI08-115-001  | COHO    | 278         | 237                       |     |                                |         |         |          |
| HS200205-JF01-115-001   | COHO    | 320         | 329                       | F   | 2.04                           | 1.1     | T210177 | AD       |
| HS200205-JF01-115-002   | COHO    | 296         | 295                       | M   | 1.07                           |         |         | AD       |
| HS200205-JF01-115-003   | COHO    | 320         | 356                       | M   | 1.19                           |         |         | AD       |
| HS200205-JF01-115-004   | COHO    | 411         | 704                       | M   | 22.5                           |         |         |          |
| HS200205-JF01-115-005   | COHO    | 332         | 385                       | M   | 1.39                           |         |         | AD       |
| HS200205-JF01-115-006   | COHO    | 334         | 395                       | M   | 1.87                           |         |         |          |
| HS200205-JF01-115-007   | COHO    | 346         | 420                       | F   | 1.58                           |         |         | AD       |
| HS200205-JF01-115-008   | COHO    | 293         | 261                       | F   | 1.31                           |         |         |          |
| HS200205-JF01-115-009   | COHO    | 322         | 386                       | F   | 1.45                           |         |         |          |
| HS200205-JF01-115-010   | COHO    | 312         | 348                       | F   | 1.07                           |         |         |          |
| HS200205-JF01-115-011   | COHO    | 305         | 305                       | M   | 1.63                           |         |         | AD       |
| HS200205-JF01-115-012   | COHO    | 261         | 199                       | F   | 0.73                           |         |         |          |
| HS200205-JF01-115-013   | COHO    | 341         | 400                       | M   | 0.72                           |         |         | AD       |
| HS200205-JF01-115-014   | COHO    | 408         | 766                       | F   | 0.44                           |         |         |          |
| HS200205-JF01-115-015   | COHO    | 296         | 272                       | F   | 0.47                           |         |         |          |
| HS200205-JF01-115-016   | COHO    | 313         | 316                       | F   | 1.15                           |         |         |          |

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| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT     | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|---------|----------|
| HS200205-JF01-115-017 | COHO    | 307         | 317                       | F   | 0.49                           |         |         |          |
| HS200205-JF01-115-018 | COHO    | 308         | 308                       | F   | 0.46                           |         |         |          |
| HS200205-JF01-115-019 | COHO    | 311         | 333                       | F   | 0.93                           |         |         |          |
| HS200205-JF01-115-020 | COHO    | 348         | 407                       | M   | 0.85                           |         |         | AD       |
| HS200205-JF01-115-021 | COHO    | 334         | 394                       | F   | 2.35                           |         |         | AD       |
| HS200205-JF01-115-022 | COHO    | 315         | 351                       | M   | 0.82                           |         |         | AD       |
| HS200205-JF01-115-023 | COHO    | 279         | 230                       | M   | 1.85                           |         |         | AD       |
| HS200205-JF01-115-024 | COHO    | 335         | 403                       | F   | 0.25                           |         |         | AD       |
| HS200205-JF01-115-025 | COHO    | 305         | 305                       | F   | 0.91                           |         |         |          |
| HS200205-JF01-115-026 | COHO    | 301         | 274                       | F   | 0                              |         |         | AD       |
| HS200205-JF01-115-027 | COHO    | 314         | 319                       | F   | 1.79                           |         |         |          |
| HS200205-JF01-115-028 | COHO    | 303         | 301                       | M   | 0                              |         |         | AD       |
| HS200205-JF01-115-029 | COHO    | 308         | 314                       | F   | 0.45                           |         |         |          |
| HS200205-JF02-115-001 | COHO    | 326         | 362                       | F   | 3.65                           |         | LOST    | AD       |
| HS200205-JF02-115-002 | COHO    | 340         | 365                       | M   | 0.64                           | 1.1     | T210196 | AD       |
| HS200205-JF02-115-003 | COHO    | 293         | 289                       | F   | 0.96                           | 1.1     | T631358 |          |
| HS200205-JF02-115-004 | COHO    | 302         | 292                       | F   | 3.51                           | 1.1     | T210177 | AD       |
| HS200205-JF02-115-005 | COHO    | 311         | 318                       | F   | 7.66                           | 1.1     | T631357 |          |
| HS200205-JF02-115-006 | COHO    | 375         | 549                       | M   | 3                              | 1.1     | T630365 | AD       |
| HS200205-JF02-115-007 | COHO    | 317         | 318                       | M   | 0.55                           | 1.1     | T210175 | AD       |
| HS200205-JF02-115-008 | COHO    | 318         | 329                       | M   | 1.57                           | 1.1     | T210196 | AD       |
| HS200205-JF02-115-009 | COHO    | 320         | 339                       | M   | 0.59                           |         |         |          |
| HS200205-JF02-115-010 | COHO    | 350         | 447                       | F   | 0.19                           |         |         |          |
| HS200205-JF02-115-011 | COHO    | 368         | 573                       | F   | 0.72                           |         |         |          |
| HS200205-JF02-115-012 | COHO    | 303         | 291                       | F   | 1.02                           |         |         | AD       |
| HS200205-JF02-115-013 | COHO    | 311         | 319                       | F   | 0.65                           |         |         |          |
| HS200205-JF02-115-014 | COHO    | 318         | 335                       | M   | 0.79                           |         |         |          |
| HS200205-JF02-115-015 | COHO    | 332         | 388                       | M   | 2.2                            |         |         |          |
| HS200205-JF02-115-016 | COHO    | 338         | 445                       | F   | 0                              |         |         | AD       |
| HS200205-JF02-115-017 | COHO    | 288         | 259                       | M   | 1.98                           |         |         |          |
| HS200205-JF02-115-018 | COHO    | 346         | 475                       | F   | 6.02                           |         |         | AD       |
| HS200205-JF02-115-019 | COHO    | 354         | 439                       | M   | 2.94                           |         |         | AD       |
| HS200205-JF02-115-020 | COHO    | 318         | 329                       | F   | 3.53                           |         |         |          |
| HS200205-JF02-115-021 | COHO    | 309         | 326                       | F   | 0.63                           |         |         |          |
| HS200205-JF02-115-022 | COHO    | 352         | 497                       | F   | 5.96                           |         |         | AD       |
| HS200205-JF02-115-023 | COHO    | 303         | 313                       | M   | 3.5                            |         |         | AD       |
| HS200205-JF02-115-024 | COHO    | 350         | 492                       | M   | 10.28                          |         |         | AD       |
| HS200205-JF02-115-025 | COHO    | 286         | 240                       | F   | 0.88                           |         |         |          |
| HS200205-JF02-115-026 | COHO    | 331         | 360                       | M   | 2                              |         |         |          |

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| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-JF02-115-027 | COHO    | 315         | 322                       | M   | 1.2                            |         |     |          |
| HS200205-JF02-115-028 | COHO    | 342         | 456                       | M   | 7.45                           |         |     |          |
| HS200205-JF02-115-029 | COHO    | 350         | 464                       | F   | 2.8                            |         |     | AD       |
| HS200205-JF02-115-030 | COHO    | 350         | 443                       | M   | 2.06                           |         |     |          |
| HS200205-JF02-115-031 | COHO    | 355         | 464                       |     |                                |         |     |          |
| HS200205-JF02-115-032 | COHO    | 337         | 416                       |     |                                |         |     |          |
| HS200205-JF02-115-033 | COHO    | 334         | 413                       |     |                                |         |     |          |
| HS200205-JF02-115-034 | COHO    | 336         | 434                       |     |                                |         |     |          |
| HS200205-JF02-115-035 | COHO    | 344         | 458                       |     |                                |         |     |          |
| HS200205-JF02-115-036 | COHO    | 327         | 371                       |     |                                |         |     |          |
| HS200205-JF02-115-037 | COHO    | 353         | 458                       |     |                                |         |     |          |
| HS200205-JF02-115-038 | COHO    | 332         | 392                       |     |                                |         |     |          |
| HS200205-JF02-115-039 | COHO    | 352         | 469                       |     |                                |         |     |          |
| HS200205-JF02-115-040 | COHO    | 348         | 485                       |     |                                |         |     |          |
| HS200205-JF02-115-041 | COHO    | 330         | 370                       |     |                                |         |     |          |
| HS200205-JF02-115-042 | COHO    | 313         | 295                       |     |                                |         |     |          |
| HS200205-JF02-115-043 | COHO    | 310         | 306                       |     |                                |         |     |          |
| HS200205-JF02-115-044 | COHO    | 321         | 361                       |     |                                |         |     |          |
| HS200205-JF02-115-045 | COHO    | 337         | 395                       |     |                                |         |     |          |
| HS200205-JF02-115-046 | COHO    | 330         | 375                       |     |                                |         |     |          |
| HS200205-JF02-115-047 | COHO    | 307         | 319                       |     |                                |         |     |          |
| HS200205-JF02-115-048 | COHO    | 295         | 297                       |     |                                |         |     |          |
| HS200205-JF02-115-049 | COHO    | 332         | 386                       |     |                                |         |     |          |
| HS200205-JF02-115-050 | COHO    | 314         | 310                       |     |                                |         |     |          |
| HS200205-JF02-115-051 | COHO    | 304         | 297                       |     |                                |         |     |          |
| HS200205-JF02-115-052 | COHO    | 294         | 267                       |     |                                |         |     |          |
| HS200205-JF02-115-053 | COHO    | 324         | 373                       |     |                                |         |     |          |
| HS200205-JF02-115-054 | COHO    | 306         | 314                       |     |                                |         |     |          |
| HS200205-JF02-115-055 | COHO    | 270         | 216                       |     |                                |         |     |          |
| HS200205-JF02-115-056 | COHO    | 297         | 277                       |     |                                |         |     |          |
| HS200205-JF02-115-057 | COHO    | 291         | 252                       |     |                                |         |     |          |
| HS200205-JF02-115-058 | COHO    | 299         | 278                       |     |                                |         |     |          |
| HS200205-JF02-115-059 | COHO    | 304         | 308                       |     |                                |         |     |          |
| HS200205-JF02-115-060 | COHO    | 305         | 330                       |     |                                |         |     |          |
| HS200205-JF02-115-061 | COHO    | 310         | 316                       |     |                                |         |     |          |
| HS200205-JF02-115-062 | COHO    | 294         | 262                       |     |                                |         |     |          |
| HS200205-JF02-115-063 | COHO    | 304         | 280                       |     |                                |         |     |          |
| HS200205-JF02-115-064 | COHO    | 276         | 226                       |     |                                |         |     |          |
| HS200205-JF02-115-065 | COHO    | 237         | 144                       |     |                                |         |     |          |

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| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT     | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|---------|----------|
| HS200205-JF02-115-066 | COHO    | 301         | 299                       |     |                                |         |         |          |
| HS200205-JF02-115-067 | COHO    | 322         | 391                       |     |                                |         |         |          |
| HS200205-JS03-115-001 | COHO    | 278         | 240                       | F   | 9.81                           |         |         | AD       |
| HS200205-JS05-115-001 | COHO    | 314         | 352                       | F   | 14.8                           |         |         |          |
| HS200205-JS05-115-002 | COHO    | 323         | 375                       | F   | 10.79                          |         |         | AD       |
| HS200205-VI01-115-001 | COHO    | 324         | 365                       | M   | 16.15                          |         |         |          |
| HS200205-VI01-115-002 | COHO    | 307         | 294                       | F   | 1.07                           |         |         |          |
| HS200205-VI01-115-003 | COHO    | 293         | 264                       | M   | 7.58                           |         |         |          |
| HS200205-VI01-115-004 | COHO    | 326         | 342                       | M   | 1                              |         |         |          |
| HS200205-VI01-115-005 | COHO    | 322         | 356                       | M   | 0.5                            |         |         | AD       |
| HS200205-VI01-115-006 | COHO    | 332         | 465                       | F   | 43.04                          |         |         | AD       |
| HS200205-VI01-115-007 | COHO    | 332         | 352                       | M   | 1.14                           |         |         |          |
| HS200205-VI01-115-008 | COHO    | 319         | 387                       | F   | 5.58                           |         |         | AD       |
| HS200205-VI01-115-009 | COHO    | 311         | 331                       | M   | 12.68                          |         |         | AD       |
| HS200205-VI01-115-010 | COHO    | 331         | 422                       | F   | 19.17                          |         |         | AD       |
| HS200205-VI01-115-011 | COHO    | 340         | 428                       | F   | 3.4                            |         |         | AD       |
| HS200205-VI01-115-012 | COHO    | 324         | 364                       | F   | 1.68                           |         |         | AD       |
| HS200205-VI01-115-013 | COHO    | 382         | 615                       | F   | 1.68                           |         |         |          |
| HS200205-VI01-115-014 | COHO    | 330         | 398                       | M   | 11.93                          |         |         |          |
| HS200205-VI01-115-015 | COHO    | 385         | 582                       | M   | 2.45                           |         |         | AD       |
| HS200205-VI01-115-016 | COHO    | 338         | 404                       | F   | 2.54                           |         |         | AD       |
| HS200205-VI01-115-017 | COHO    | 311         | 320                       | F   | 1.45                           |         |         |          |
| HS200205-VI01-115-018 | COHO    | 282         | 261                       | F   | 3.62                           |         |         |          |
| HS200205-VI01-115-019 | COHO    | 316         | 337                       | M   | 1.41                           |         |         |          |
| HS200205-VI01-115-020 | COHO    | 340         | 399                       | M   | 10.61                          |         |         |          |
| HS200205-VI02-115-001 | COHO    | 289         |                           | M   | 8.28                           | 1.1     | T630296 | AD       |
| HS200205-VI02-115-002 | COHO    | 318         | 332                       | F   | 10.94                          |         |         | AD       |
| HS200205-VI02-115-003 | COHO    | 348         | 476                       | F   | 2.06                           |         |         | AD       |
| HS200205-VI02-115-004 | COHO    | 325         | 376                       | F   | 10.94                          |         |         | AD       |
| HS200205-VI02-115-005 | COHO    | 340         | 461                       | F   | 11.07                          |         |         |          |
| HS200205-VI02-115-006 | COHO    | 323         | 333                       | M   | 4.59                           |         |         | AD       |
| HS200205-VI02-115-007 | COHO    | 316         | 352                       | F   | 1.85                           |         |         | AD       |
| HS200205-VI02-115-008 | COHO    | 280         | 236                       | M   | 2.32                           |         |         | AD       |
| HS200205-VI02-115-009 | COHO    | 264         | 185                       | M   | 1.04                           |         |         |          |
| HS200205-VI02-115-010 | COHO    | 298         | 287                       | F   | 3.37                           |         |         | AD       |
| HS200205-VI02-115-011 | COHO    | 330         | 351                       | F   | 4.53                           |         |         |          |
| HS200205-VI02-115-012 | COHO    | 258         | 196                       | M   | 3.15                           |         |         |          |
| HS200205-VI02-115-013 | COHO    | 291         | 258                       | F   | 0.93                           |         |         | AD       |
| HS200205-VI02-115-014 | COHO    | 286         | 242                       | M   | 0.48                           |         |         |          |

Table 2. Biological data collected for each salmon caught on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Fish Number           | Species | Fork Length | Whole Body Weight (g wet) | Sex | Stomach Content Weight (g wet) | CWT age | CWT | Fin Clip |
|-----------------------|---------|-------------|---------------------------|-----|--------------------------------|---------|-----|----------|
| HS200205-VI02-115-015 | COHO    | 312         | 324                       | M   | 6.14                           |         |     |          |
| HS200205-VI02-115-016 | COHO    | 318         | 372                       | M   | 16.22                          |         |     | AD       |
| HS200205-JS01-108-001 | PINK    | 274         | 210                       |     |                                |         |     |          |
| HS200205-VI03-118-001 | SOCKEYE | 225         | 132                       |     |                                |         |     |          |
| HS200205-VI03-118-002 | SOCKEYE | 222         | 115                       |     |                                |         |     |          |

Table 3. Physical oceanographic data collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID   | Station Name  | Region | Date UTC  | Time UTC | Latitude (°N) | Longitude (°W) | Bottom Depth (m) | SST (°C) | SSS (ppt) | NO3 umoles/L | Si umoles/ | PO4 umoles/L | Chl A ug/L |
|--------------|---------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|------------|--------------|------------|
| HS200205JF02 | PORT SAN JUAN | JF     | 27-Feb-02 | 18:36    | 48.524        | 124.547        | 120              |          |           |              |            | 1.83         | 1.21       |
| HS200205VI01 | CARMANAH      | VI     | 27-Feb-02 | 21:03    | 48.597        | 124.873        | 60               | 7.7      | 30.01     | 15.6         | 27.9       | 1.45         | 1.61       |
| HS200205VI02 | PACHENA       | VI     | 27-Feb-02 | 23:14    | 48.641        | 125.130        | 73               | 7.88     | 29.57     | 13.3         | 24         | 1.29         | 1.62       |
| HS200205EP12 | ESTEVAN PT    | VI     | 28-Feb-02 | 16:43    | 48.489        | 128.210        | 2566             | 7.72     | 32.34     | 8.1          | 11.4       | 1.06         | 0.33       |
| HS200205EP11 | ESTEVAN PT    | VI     | 28-Feb-02 | 19:53    | 48.621        | 127.949        | 2594             | 7.8      | 32.35     | 8            | 11.4       | 1.06         | 0.35       |
| HS200205EP10 | ESTEVAN PT    | VI     | 28-Feb-02 | 22:50    | 48.754        | 127.687        | 2544             | 7.85     | 32.33     | 8.1          | 11.4       | 1.1          | 0.55       |
| HS200205EP09 | ESTEVAN PT    | VI     | 01-Mar-02 | 02:30    | 48.897        | 127.456        | 2212             | 8.08     | 31.98     | 8.6          | 15.9       | 1.07         | 1.5        |
| HS200205EP08 | ESTEVAN PT    | VI     | 01-Mar-02 | 15:48    | 49.032        | 127.167        | 1730             | 7.79     | 30.74     | 11.4         | 21         | 1.17         | 3.67       |
| HS200205EP07 | ESTEVAN PT    | VI     | 01-Mar-02 | 18:10    | 49.132        | 126.983        | 490              | 7.75     | 30.53     | 15.9         | 29.2       | 1.49         | 1.35       |
| HS200205EP06 | ESTEVAN PT    | VI     | 01-Mar-02 | 20:13    | 49.162        | 126.919        | 197              | 7.9      | 30.7      | 15.2         | 28.4       | 1.48         | 1.26       |
| HS200205EP05 | ESTEVAN PT    | VI     | 01-Mar-02 | 22:20    | 49.208        | 126.852        | 147              | 7.9      | 30.59     |              |            |              |            |
| HS200205EP04 | ESTEVAN PT    | VI     | 02-Mar-02 | 00:01    | 49.235        | 126.746        | 122              | 7.85     | 30.26     | 16.6         | 31.4       | 1.54         | 1.97       |
| HS200205EP01 | ESTEVAN PT    | VI     | 02-Mar-02 | 03:58    | 49.321        | 126.505        | 47               | 7.86     | 29.91     | 13.6         | 26.9       | 1.4          | 2.03       |
| HS200205EP02 | ESTEVAN PT    | VI     | 02-Mar-02 | 04:39    | 49.317        | 126.603        | 81               | 7.7      | 29.88     | 14.9         | 29.7       | 1.34         | 2.18       |
| HS200205EP03 | ESTEVAN PT    | VI     | 02-Mar-02 | 05:25    | 49.280        | 126.678        | 100              | 7.72     | 29.99     | 15.3         | 30.3       | 1.37         | 1.28       |



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| Station ID   | Station Name        | Region | Date UTC  | Time UTC | Latitude (°N) | Longitude (°W) | Bottom Depth (m) | SST (°C) | SSS (ppt) | NO3 umoles/L | Si umoles/ | PO4 umoles/L | Chl A ug/L |
|--------------|---------------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|------------|--------------|------------|
| HS200205VI01 | NOOTKA SD           | IVI    | 02-Mar-02 | 15:56    | 49.603        | 126.522        | 264              | 8.04     | 29.1      | 15.4         | 29.8       | 1.51         | 0.63       |
| HS200205VI02 | NOOTKA SD           | IVI    | 02-Mar-02 | 17:47    | 49.651        | 126.611        | 110              | 6.15     | 25.08     | 15.8         | 32         | 1.59         | 0.8        |
| HS200205VI03 | NOOTKA SD           | IVI    | 02-Mar-02 | 19:18    | 49.718        | 126.481        | 194              | 6.84     | 20.56     | 17.4         | 32.1       | 1.72         | 0.5        |
| HS200205VI05 | ESPERANZA INLET     | IVI    | 03-Mar-02 | 00:28    | 49.848        | 126.960        | 161              | 8.14     | 29.01     | 14.7         | 28.4       | 1.44         | 0.95       |
| HS200205VI03 | ESPERANZA           | VI     | 03-Mar-02 | 03:41    | 49.747        | 127.157        | 76               | 8.01     | 30.46     | 14.5         | 27.4       | 1.41         | 1.57       |
| HS200205VI07 | QUATSINO SD         | IVI    | 03-Mar-02 | 15:56    | 50.497        | 127.751        | 114              | 8.16     | 29.44     | 13.7         | 28         | 1.44         | 0.32       |
| HS200205VI08 | QUATSINO SD         | IVI    | 03-Mar-02 | 17:07    | 50.476        | 127.822        | 128              | 8.12     | 29.51     | 13.7         | 27.4       | 1.52         | 0.22       |
| HS200205VI09 | QUATSINO SD         | IVI    | 03-Mar-02 | 18:31    | 50.463        | 127.955        | 222              | 8.24     | 29.93     | 13.3         | 24.7       | 1.41         | 0.18       |
| HS200205VI04 | OFF QUATSINO SD     | VI     | 03-Mar-02 | 20:13    | 50.388        | 128.046        | 132              | 7.71     | 30.81     | 11.8         | 21.4       | 1.29         | 0.63       |
| HS200205VI05 | VAN IS N - TOPKNOT  | VI     | 03-Mar-02 | 22:37    | 50.487        | 128.291        | 87               | 7.89     | 31.43     | 10.5         | 18.5       | 1.34         | 0.46       |
| HS200205VI06 | VAN IS N - BUSHY RK | VI     | 04-Mar-02 | 00:23    | 50.608        | 128.377        | 74               | 7.86     | 31.21     | 11.1         | 21         | 1.21         | 0.81       |
| HS200205VI07 | VAN IS N - C RUSSEL | VI     | 04-Mar-02 | 02:27    | 50.731        | 128.353        | 85               | 7.77     | 31.77     | 13.1         | 21.6       | 1.38         | 0.33       |
| HS200205VI08 | VAN IS N - COX IS   | VI     | 04-Mar-02 | 03:49    | 50.713        | 128.623        | 120              | 7.74     | 31.73     | 12.4         | 20.6       | 1.3          | 0.32       |
| HS200205T07  | TRIANGLE IS         | VI     | 05-Mar-02 | 16:19    | 50.821        | 129.219        | 90               | 7.44     | 31.64     | 11.5         | 20.2       | 1.26         | 0.68       |
| HS200205T08  | TRIANGLE IS         | VI     | 05-Mar-02 | 18:40    | 50.702        | 129.483        | 1955             | 7.53     | 31.65     | 10.9         | 19.1       | 1.2          | 0.61       |

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| Station ID    | Station Name | Region | Date UTC  | Time UTC | Latitude (°N) | Longitude (°W) | Bottom Depth (m) | SST (°C) | SSS (ppt) | NO3 umoles/L | Si umoles/L | PO4 umoles/L | Chl A ug/L |
|---------------|--------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|-------------|--------------|------------|
| HS200205T09   | TRIANGLE IS  | VI     | 05-Mar-02 | 20:51    | 50.621        | 129.654        | 2024             | 7.48     | 31.66     | 10           | 18.3        | 1.14         | 0.87       |
| HS200205T10   | TRIANGLE IS  | VI     | 05-Mar-02 | 23:14    | 50.542        | 129.822        | 2189             | 7.59     | 31.78     | 8.5          | 16.4        | 1.06         | 1.25       |
| HS200205T11   | TRIANGLE IS  | VI     | 06-Mar-02 | 01:18    | 50.462        | 129.994        | 2331             | 7.16     | 31.5      | 8.3          | 15          | 1.06         | 1.47       |
| HS200205T12   | TRIANGLE IS  | VI     | 06-Mar-02 | 03:44    | 50.382        | 130.162        | 2030             |          |           | 7.6          | 12.3        | 1.04         | 1.38       |
| HS200205T06   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 16:26    | 50.933        | 129.001        | 59               | 7.15     | 31.48     | 12           | 22.4        | 1.27         | 0.83       |
| HS200205T05   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 18:23    | 51.000        | 128.869        | 60               | 7.19     | 31.32     | 14.2         | 26.2        | 1.44         | 0.78       |
| HS200205T04   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 20:22    | 51.076        | 128.735        | 60               | 7.34     | 31.02     | 13.2         | 24.1        | 1.36         | 0.66       |
| HS200205T03   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 21:59    | 51.144        | 128.602        | 139              | 6.99     | 31.21     | 14.9         | 27.9        | 1.48         | 0.57       |
| HS200205T02   | TRIANGLE IS  | QCSD   | 06-Mar-02 | 23:47    | 51.210        | 128.467        | 190              | 7.22     | 31.32     | 14           | 25.9        | 1.39         | 0.82       |
| HS200205T01   | TRIANGLE IS  | QCSD   | 07-Mar-02 | 01:30    | 51.276        | 128.333        | 75               | 7.32     | 30.93     | 13.4         | 23.4        | 1.35         | 0.51       |
| HS200205QCS01 | CALVERT IS   | QCSD   | 07-Mar-02 | 04:05    | 51.448        | 128.238        | 120              | 6.61     | 31.2      | 15.4         | 29          | 1.51         | 0.59       |
| HS200205H01   | HECATE ST    | HS     | 07-Mar-02 | 17:23    | 52.206        | 129.176        | 160              | 6.82     | 31.81     | 11.8         | 20.5        | 1.26         | 0.55       |
| HS200205H02   | HECATE ST    | HS     | 07-Mar-02 | 19:35    | 52.257        | 129.442        | 184              | 6.49     | 31.47     | 14.8         | 26.2        | 1.47         | 0.47       |
| HS200205H03   | HECATE ST    | HS     | 07-Mar-02 | 22:18    | 52.317        | 129.693        | 210              | 6.72     | 31.73     | 13.2         | 23          | 1.36         | 0.33       |
| HS200205H04   | HECATE ST    | HS     | 08-Mar-02 | 00:22    | 52.372        | 129.961        | 202              | 6.83     | 31.75     | 12.7         | 22.3        | 1.32         | 0.65       |

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| Station ID     | Station Name | Region | Date UTC  | Time UTC | Latitude (°N) | Longitude (°W) | Bottom Depth (m) | SST (°C) | SSS (ppt) | NO3 umoles/L | Si umoles/ | PO4 umoles/L | Chl A ug/L |
|----------------|--------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|------------|--------------|------------|
| HS200205H05    | HECATE ST    | HS     | 08-Mar-02 | 02:28    | 52.428        | 130.219        | 324              | 6.98     | 31.51     | 10.1         | 18.7       | 1.12         | 0.79       |
| HS200205HS02   | LASKEEK BK   | HS     | 08-Mar-02 | 23:49    | 52.751        | 130.985        | 37               | 6.49     | 32.06     | 12.2         | 19.9       | 1.32         | 1.82       |
| HS200205HS03   | LASKEEK BK   | HS     | 09-Mar-02 | 01:51    | 52.894        | 130.846        | 35               | 6.52     | 31.98     | 13.1         | 22.4       | 1.38         | 1.18       |
| HS200205HS04   | LASKEEK BK   | HS     | 09-Mar-02 | 03:39    | 53.047        | 130.785        | 103              | 6.76     | 31.97     | 14           | 23.5       | 1.43         | 0.59       |
| HS200205DE01   | McINTYRE BAY | DE     | 09-Mar-02 | 16:01    | 54.183        | 131.739        | 43               | 4.82     | 31.82     | 18.6         | 33.8       | 1.65         | 0.74       |
| HS200205DE02   | McINTYRE BAY | DE     | 09-Mar-02 | 17:52    | 54.135        | 131.955        | 42               | 5.14     | 31.8      | 18.5         | 32.7       | 1.69         | 0.52       |
| HS200205DE03   | McINTYRE BAY | DE     | 09-Mar-02 | 19:32    | 54.138        | 132.194        | 43               | 5.05     | 31.45     | 18           | 32.8       | 1.7          | 0.45       |
| HS200205DE04   | DIXON E      | DE     | 09-Mar-02 | 21:09    | 54.129        | 132.436        | 53               | 5.93     | 32.03     | 18.4         | 32.7       | 1.71         | 0.23       |
| HS200205ISEA01 | CLARENCE ST  | ISEA   | 10-Mar-02 | 16:05    | 55.321        | 131.942        | 401              | 4.9      | 30.74     | 18.7         | 35.7       | 1.68         | 0.49       |
| HS200205ISEA02 | CLARENCE ST  | ISEA   | 10-Mar-02 | 18:25    | 55.476        | 132.032        | 474              | 4.32     | 30.45     | 18.3         | 36.2       | 1.68         | 0.67       |
| HS200205ISEA03 | CLARENCE ST  | ISEA   | 10-Mar-02 | 20:26    | 55.545        | 132.121        | 317              | 4.48     | 30.47     | 18           | 35.2       | 1.69         | 0.6        |
| HS200205ISEA04 | CLARENCE ST  | ISEA   | 10-Mar-02 | 22:42    | 55.652        | 132.288        | 618              | 4.54     | 30.59     | 18.8         | 36.9       | 1.74         | 0.51       |
| HS200205ISEA05 | CLARENCE ST  | ISEA   | 11-Mar-02 | 00:45    | 55.779        | 132.405        | 579              | 4.73     | 30.65     | 19.3         | 37         | 1.75         | 0.43       |
| HS200205ISEA07 | CLARENCE ST  | ISEA   | 11-Mar-02 | 03:42    | 55.968        | 132.658        | 407              | 4.66     | 30.59     | 17.8         | 35.1       | 1.76         | 0.48       |
| HS200205ISEA08 | SUMNER ST    | ISEA   | 11-Mar-02 | 16:05    | 56.364        | 133.162        | 54               | 5.38     | 30.94     | 20.6         |            | 1.92         | 0.21       |

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|----------------|--------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|------------|--------------|------------|
| HS200205ISEA09 | SUMNER ST    | ISEA   | 11-Mar-02 | 18:03    | 56.359        | 133.436        | 326              | 5.59     | 31.51     | 21.4         | 38.9       | 1.92         | 0.15       |
| HS200205ISEA10 | SUMNER ST    | ISEA   | 11-Mar-02 | 20:19    | 56.413        | 133.691        | 275              | 5.09     | 31.3      | 21.5         | 39.6       | 1.94         | 0.22       |
| HS200205ISEA11 | SUMNER ST    | ISEA   | 11-Mar-02 | 22:32    | 56.270        | 133.687        | 110              | 5.53     | 31.72     | 20.5         | 36.8       | 1.86         | 0.29       |
| HS200205ISEA12 | SUMNER ST    | ISEA   | 12-Mar-02 | 00:28    | 56.091        | 133.716        | 110              | 5.41     | 31.7      | 20.3         | 36.4       | 1.84         | 0.26       |
| HS200205ISEA14 | SUMNER ST    | ISEA   | 12-Mar-02 | 03:17    | 55.955        | 133.987        | 204              | 5.51     | 31.59     | 20.5         | 36.9       | 1.78         | 0.17       |
| HS200205ISEA15 | FREDERICK SD | ISEA   | 12-Mar-02 | 16:03    | 56.987        | 134.485        | 138              | 3.8      | 31.39     | 27.7         | 52.6       | 2.32         | 0.34       |
| HS200205ISEA16 | FREDERICK SD | ISEA   | 12-Mar-02 | 18:00    | 57.121        | 134.298        | 141              | 3.68     | 31.34     | 27.8         | 53.1       | 2.33         | 0.4        |
| HS200205ISEA17 | FREDERICK SD | ISEA   | 12-Mar-02 | 19:39    | 57.208        | 134.108        | 76               | 3.72     | 31.3      | 27.8         | 54         | 2.25         | 0.34       |
| HS200205ISEA18 | CHATHAM ST   | ISEA   | 13-Mar-02 | 02:26    | 56.387        | 134.468        | 723              | 5.26     | 31.79     | 19           | 33.3       | 1.73         | 0.38       |
| HS200205ISEA19 | CHATHAM ST   | ISEA   | 13-Mar-02 | 04:29    | 56.307        | 134.391        | 455              | 5.32     | 31.7      | 19.9         | 35.1       | 1.82         | 0.32       |
| HS200205B01    | BARANOF IS   | SEA    | 13-Mar-02 | 15:58    | 56.300        | 134.909        | 87               | 4.82     | 31.42     | 22.2         | 40.3       | 2.01         | 0.26       |
| HS200205B02    | BARANOF IS   | SEA    | 13-Mar-02 | 17:22    | 56.253        | 135.025        | 148              | 4.93     | 31.81     | 22.6         | 40.6       | 1.96         | 0.36       |
| HS200205B03    | BARANOF IS   | SEA    | 13-Mar-02 | 19:00    | 56.209        | 135.133        | 177              | 5.23     | 31.93     | 19.9         | 35.7       | 1.81         | 0.37       |
| HS200205B04    | BARANOF IS   | SEA    | 13-Mar-02 | 20:39    | 56.162        | 135.245        | 294              | 5.72     | 32.18     | 15.4         | 25.6       | 1.44         | 0.55       |
| HS200205B05    | BARANOF IS   | SEA    | 13-Mar-02 | 22:16    | 56.116        | 135.354        | 310              | 5.83     | 32.24     | 15.1         | 25         | 1.47         | 0.55       |

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|---------------|--------------|--------|-----------|----------|---------------|----------------|------------------|----------|-----------|--------------|------------|--------------|------------|
| HS200205B06   | BARANOF IS   | SEA    | 13-Mar-02 | 23:48    | 56.073        | 135.475        | 393              | 5.53     | 32.45     | 14           | 21.4       | 1.43         | 0.6        |
| HS200205B07   | BARANOF IS   | SEA    | 14-Mar-02 | 01:15    | 56.027        | 135.577        | 840              | 5.33     | 32.5      | 14.2         | 20.3       | 1.38         | 0.69       |
| HS200205B08   | BARANOF IS   | SEA    | 14-Mar-02 | 02:44    | 55.982        | 135.690        | 1233             | 5.39     | 32.44     | 13.8         | 20.4       | 1.47         | 0.74       |
| HS200205B09   | BARANOF IS   | SEA    | 14-Mar-02 | 04:35    | 55.898        | 135.884        | 2588             | 5.42     | 32.43     | 13.8         | 20.9       | 1.4          | 0.78       |
| HS200205B10   | BARANOF IS   | SEA    | 14-Mar-02 | 06:32    | 55.820        | 136.088        | 2647             | 5.39     | 32.44     | 13.6         | 19.3       | 1.34         | 0.8        |
| HS200205IBC01 | WRIGHT SD    | IBC    | 15-Mar-02 | 17:18    | 53.315        | 129.164        | 499              | 6.21     | 30.91     | 18.2         | 33.5       | 1.68         | 0.8        |
| HS200205CPE01 | PINE IS      | QCST   | 17-Mar-02 | 08:23    | 50.998        | 127.833        | 153              |          |           | 19.7         | 36.3       | 1.86         |            |
| HS200205JS01  | JOHNSTONE ST | JS     | 17-Mar-02 | 15:53    | 50.528        | 126.667        | 465              | 7.21     | 30.61     | 23.7         | 46.2       | 2.19         | 0.32       |
| HS200205JS02  | JOHNSTONE ST | JS     | 17-Mar-02 | 17:57    | 50.508        | 126.508        | 392              | 7.2      | 30.54     | 23.9         | 47.3       | 2.2          | 0.34       |
| HS200205JS03  | JOHNSTONE ST | JS     | 17-Mar-02 | 20:01    | 50.500        | 126.275        | 218              | 7.29     | 30.51     | 24.4         | 47.6       | 2.21         | 0.24       |
| HS200205JS04  | JOHNSTONE ST | JS     | 17-Mar-02 | 21:50    | 50.476        | 126.074        | 231              | 7.39     | 30.52     | 24.9         | 48.3       | 2.21         | 0.19       |
| HS200205JS05  | JOHNSTONE ST | JS     | 17-Mar-02 | 23:33    | 50.391        | 125.881        | 207              | 7.44     | 30.22     | 25.6         | 50.1       | 2.3          | 0.2        |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name | Region | Latitude<br>(°N) | Longitude<br>(°W) | Date      | Time  | Target<br>Depth (m) | Tow<br>Duration | Wire<br>Angle (°) | Volume<br>Seived<br>(cu m) | Plankton Weights by Size Fraction (g dry / 1000 cu m) |       |       |        |       |
|----------------|--------------|--------|------------------|-------------------|-----------|-------|---------------------|-----------------|-------------------|----------------------------|---|-------|-------|--------|-------|
|                |              |        |                  |                   |           |       |                     |                 |                   |                            | 8.0mm   | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205IBC01  | WRIGHT SD    | IBC    | 53.315           | 129.168           | 15-Mar-02 | 09:36 | 150                 | 00:11           |                   | 61                         | 2.97  | 2.47  | 11.38 | 1.98   | 18.8  |
| HS200205ISEA10 | SUMNER ST    | ISEA   | 56.413           | 133.692           | 11-Mar-02 | 12:39 | 150                 | 00:08           |                   | 60                         | 0   | 0.5   | 3.52  | 0.67   | 4.69  |
| HS200205EP12   | ESTEVAN PT   | VI     | 48.490           | 128.228           | 28-Feb-02 | 09:28 | 150                 | 00:10           |                   | 66                         | 0.76  | 0.15  | 0.91  | 2.57   | 4.39  |
| HS200205H01    | HECATE ST    | HS     | 52.205           | 129.175           | 07-Mar-02 | 09:36 | 150                 | 00:10           |                   | 43                         | 0   | 3.02  | 2.55  | 4.18   | 9.75  |
| HS200205H02    | HECATE ST    | HS     | 52.262           | 129.440           | 07-Mar-02 | 11:54 | 150                 | 00:11           |                   | 39                         | 0   | 1.01  | 3.3   | 2.03   | 6.34  |
| HS200205H03    | HECATE ST    | HS     | 52.318           | 129.693           | 07-Mar-02 | 14:34 | 150                 | 00:09           |                   | 16                         | 0   | 1.87  | 4.36  | 2.49   | 8.71  |
| HS200205H04    | HECATE ST    | HS     | 52.377           | 129.962           | 07-Mar-02 | 16:38 | 150                 | 00:09           |                   | 39                         | 0   | 0.77  | 2.82  | 3.08   | 6.67  |
| HS200205H05    | HECATE ST    | HS     | 52.433           | 130.220           | 07-Mar-02 | 18:54 | 150                 | 00:15           |                   | 102                        | 0   | 2.45  | 1.96  | 1.57   | 5.97  |
| HS200205HS02   | LASKEEK BK   | HS     | 52.750           | 130.983           | 08-Mar-02 | 16:02 | 30                  | 00:02           |                   | 7                          | 6.89  | 0     | 11.03 | 16.54  | 34.45 |
| HS200205EP10   | ESTEVAN PT   | VI     | 48.755           | 127.690           | 28-Feb-02 | 15:08 | 150                 | 00:09           |                   | 68                         | 0   | 1.31  | 1.9   | 2.19   | 5.4   |
| HS200205HS04   | LASKEEK BK   | HS     | 53.047           | 130.786           | 08-Mar-02 | 19:51 | 95                  | 00:05           |                   | 23                         | 0.44  | 0.44  | 0.88  | 3.98   | 5.74  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name | Region | Latitude<br>(°N) | Longitude<br>(°W) | Date      | Time  | Target<br>Depth (m) | Tow<br>Duration | Wire<br>Angle (°) | Volume<br>Seived<br>(cu m) | Plankton Weights by Size Fraction (g dry / 1000 cu m) |       |       |        |       |
|----------------|--------------|--------|------------------|-------------------|-----------|-------|---------------------|-----------------|-------------------|----------------------------|---|-------|-------|--------|-------|
|                |              |        |                  |                   |           |       |                     |                 |                   |                            | 8.0mm   | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205EP09   | ESTEVAN PT   | VI     | 48.898           | 127.447           | 28-Feb-02 | 18:04 | 150                 | 00:14           |                   | 83                         | 0   | 2.4   | 1.32  | 1.68   | 5.4   |
| HS200205ISEA01 | CLARENCE ST  | ISEA   | 55.319           | 131.944           | 10-Mar-02 | 08:23 | 150                 | 00:10           |                   | 59                         | 0   | 3.05  | 3.56  | 1.19   | 7.79  |
| HS200205ISEA02 | CLARENCE ST  | ISEA   | 55.481           | 132.036           | 10-Mar-02 | 10:57 | 150                 | 00:11           |                   | 45                         | 0   | 7.83  | 13.87 | 0.89   | 22.6  |
| HS200205ISEA03 | CLARENCE ST  | ISEA   | 55.544           | 132.119           | 10-Mar-02 | 12:47 | 150                 | 00:08           |                   | 44                         | 0   | 1.14  | 13.85 | 3.18   | 18.16 |
| HS200205ISEA04 | CLARENCE ST  | ISEA   | 55.650           | 132.284           | 10-Mar-02 | 14:59 | 150                 | 00:09           |                   | 37                         | 0   | 10    | 22.16 | 5.4    | 37.56 |
| HS200205ISEA05 | CLARENCE ST  | ISEA   | 55.780           | 132.407           | 10-Mar-02 | 17:04 | 150                 | 00:08           |                   | 54                         | 0.37  | 10.6  | 22.88 | 3.35   | 37.2  |
| HS200205ISEA07 | CLARENCE ST  | ISEA   | 55.967           | 132.657           | 10-Mar-02 | 20:04 | 150                 | 00:08           |                   | 39                         | 0   | 20.42 | 25.78 | 3.83   | 50.02 |
| HS200205ISEA08 | SUMNER ST    | ISEA   | 56.366           | 133.159           | 11-Mar-02 | 08:17 | 60                  | 00:04           |                   | 61                         | 0   | 0.99  | 4.3   | 2.15   | 7.44  |
| HS200205B01    | BARANOF IS   | SEA    | 56.301           | 134.911           | 13-Mar-02 | 08:10 | 30                  | 00:03           |                   | 12                         | 0   | 0     | 0     | 3.24   | 3.24  |
| HS200205HS03   | LASKEEK BK   | HS     | 52.895           | 130.846           | 08-Mar-02 | 18:00 | 25                  | 00:03           |                   | 18                         | 3.99  | 1.14  | 4.56  | 8.54   | 18.22 |
| HS200205DE02   | McINTYRE BAY | DE     | 54.135           | 131.957           | 09-Mar-02 | 10:03 | 30                  | 00:06           |                   | 57                         | 0   | 0.18  | 1.05  | 1.4    | 2.63  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name | Region | Latitude (°N) | Longitude (°W) | Date      | Time  | Target Depth (m) | Tow Duration | Wire Angle (°) | Volume Seived (cu m) | Plankton Weights by Size Faction (g dry / 1000 cu m) |       |       |        |       |
|----------------|--------------|--------|---------------|----------------|-----------|-------|------------------|--------------|----------------|----------------------|--|-------|-------|--------|-------|
|                |              |        |               |                |           |       |                  |              |                |                      | 8.0mm  | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205B02    | BARANOF IS   | SEA    | 56.254        | 135.023        | 13-Mar-02 | 09:36 | 135              | 00:10        |                | 63                   | 0  | 0.79  | 0.16  | 0.32   | 1.27  |
| HS200205B03    | BARANOF IS   | SEA    | 56.213        | 135.131        | 13-Mar-02 | 11:17 | 150              | 00:11        |                | 109                  | 0  | 0.92  | 1.93  | 1.47   | 4.31  |
| HS200205B04    | BARANOF IS   | SEA    | 56.164        | 135.243        | 13-Mar-02 | 12:58 | 150              | 00:11        |                | 85                   | 0  | 1.53  | 2.82  | 2.82   | 7.16  |
| HS200205B05    | BARANOF IS   | SEA    | 56.129        | 135.354        | 13-Mar-02 | 14:35 | 150              | 00:11        |                | 65                   | 0  | 0.46  | 2     | 1.54   | 4     |
| HS200205B06    | BARANOF IS   | SEA    | 56.072        | 135.478        | 13-Mar-02 | 16:06 | 150              | 00:12        |                | 71                   | 20.55  | 1.83  | 1.41  | 1.55   | 25.34 |
| HS200205B07    | BARANOF IS   | SEA    | 56.027        | 135.578        | 13-Mar-02 | 17:32 | 150              | 00:14        |                | 101                  | 5.66   | 2.09  | 1.79  | 1.39   | 10.93 |
| HS200205B08    | BARANOF IS   | SEA    | 55.981        | 135.692        | 13-Mar-02 | 19:03 | 150              | 00:12        |                | 73                   | 0.96   | 4.37  | 2.6   | 2.73   | 10.66 |
| HS200205B09    | BARANOF IS   | SEA    | 55.897        | 135.889        | 13-Mar-02 | 20:54 | 150              | 00:12        |                | 69                   | 5.36   | 6.38  | 1.59  | 2.32   | 15.65 |
| HS200205EP11   | ESTEVAN PT   | VI     | 48.623        | 127.951        | 28-Feb-02 | 12:30 | 150              | 00:11        |                | 58                   | 0  | 1.54  | 0.68  | 1.2    | 3.42  |
| HS200205DE01   | McINTYRE BAY | DE     | 54.183        | 131.741        | 09-Mar-02 | 08:11 | 32               | 00:03        |                | 22                   | 0.46   | 0     | 1.84  | 4.14   | 6.44  |
| HS200205ISEA11 | SUMNER ST    | ISEA   | 56.271        | 133.688        | 11-Mar-02 | 14:45 | 130              | 00:06        |                | 30                   | 0  | 0.99  | 1.98  | 2.97   | 5.94  |



Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name | Region | Latitude (°N) | Longitude (°W) | Date      | Time  | Target Depth (m) | Tow Duration | Wire Angle (°) | Volume Seived (cu m) | Plankton Weights by Size Faction (g dry / 1000 cu m) |       |       |        |       |
|----------------|--------------|--------|---------------|----------------|-----------|-------|------------------|--------------|----------------|----------------------|--|-------|-------|--------|-------|
|                |              |        |               |                |           |       |                  |              |                |                      | 8.0mm  | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205EP01   | ESTEVAN PT   | VI     | 49.321        | 126.508        | 01-Mar-02 | 20:09 | 30               | 00:04        |                | 14                   | 0  | 5.65  | 4.95  | 16.26  | 26.86 |
| HS200205EP02   | ESTEVAN PT   | VI     | 49.318        | 126.603        | 01-Mar-02 | 20:47 | 70               | 00:08        |                | 26                   | 0  | 7.55  | 3.02  | 20.77  | 31.34 |
| HS200205EP03   | ESTEVAN PT   | VI     | 49.279        | 126.677        | 01-Mar-02 | 21:35 | 100              | 00:08        |                | 48                   | 0  | 6.41  | 2.48  | 9.1    | 17.99 |
| HS200205EP04   | ESTEVAN PT   | VI     | 49.238        | 126.748        | 01-Mar-02 | 16:16 | 110              | 00:06        |                | 41                   | 0  | 0.98  | 2.71  | 5.91   | 9.6   |
| HS200205EP05   | ESTEVAN PT   | VI     | 49.208        | 126.854        | 01-Mar-02 | 14:28 | 130              | 00:09        |                | 70                   | 0  | 0.86  | 2.15  | 3.45   | 6.46  |
| HS200205EP06   | ESTEVAN PT   | VI     | 49.165        | 126.927        | 01-Mar-02 | 12:45 | 150              | 00:08        |                | 69                   | 0  | 0.43  | 2.32  | 4.78   | 7.54  |
| HS200205EP07   | ESTEVAN PT   | VI     | 49.132        | 126.988        | 01-Mar-02 | 10:30 | 150              | 00:10        |                | 72                   | 0.41   | 1.24  | 2.35  | 4.97   | 8.97  |
| HS200205EP08   | ESTEVAN PT   | VI     | 49.012        | 127.174        | 01-Mar-02 | 08:04 | 150              | 00:10        |                | 92                   | 0  | 1.3   | 2.27  | 3.79   | 7.36  |
| HS200205B10    | BARANOF IS   | SEA    | 55.822        | 136.077        | 13-Mar-02 | 22:03 | 150              | 00:12        |                | 67                   | 3.29   | 7.63  | 3.74  | 3.29   | 17.96 |
| HS200205T11    | TRIANGLE IS  | VI     | 50.462        | 129.993        | 05-Mar-02 | 17:46 | 150              | 00:12        |                | 30                   | 0.34   | 4.72  | 9.1   | 6.4    | 20.55 |
| HS200205ISEA09 | SUMNER ST    | ISEA   | 56.359        | 133.432        | 11-Mar-02 | 10:23 | 150              | 00:12        |                | 115                  | 0  | 1.57  | 4.26  | 1.39   | 7.22  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID    | Station Name | Region | Latitude<br>(°N) | Longitude<br>(°W) | Date      | Time  | Target<br>Depth (m) | Tow<br>Duration | Wire<br>Angle (°) | Volume<br>Seived<br>(cu m) | Plankton Weights by Size Faction (g dry / 1000 cu m) |       |       |        |       |
|---------------|--------------|--------|------------------|-------------------|-----------|-------|---------------------|-----------------|-------------------|----------------------------|--|-------|-------|--------|-------|
|               |              |        |                  |                   |           |       |                     |                 |                   |                            | 8.0mm  | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205T02   | TRIANGLE IS  | QCSD   | 51.209           | 128.461           | 06-Mar-02 |       | 150                 |                 |                   | 104                        | 0  | 0.19  | 0.29  | 1.06   | 1.54  |
| HS200205T03   | TRIANGLE IS  | QCSD   | 51.145           | 128.603           | 06-Mar-02 | 14:23 | 127                 |                 |                   | 37                         | 0  | 0.53  | 0.27  | 2.94   | 3.74  |
| HS200205T04   | TRIANGLE IS  | QCSD   | 51.070           | 128.735           | 06-Mar-02 | 12:34 | 48                  | 00:05           |                   | 14                         | 0  | 2.18  | 5.8   | 2.9    | 10.88 |
| HS200205T05   | TRIANGLE IS  | QCSD   | 51.000           | 128.868           | 06-Mar-02 | 10:35 | 50                  | 00:05           |                   | 29                         | 0  | 0.7   | 3.84  | 1.74   | 6.28  |
| HS200205T06   | TRIANGLE IS  | QCSD   | 50.932           | 129.001           | 06-Mar-02 | 08:38 | 49                  | 00:07           |                   | 20                         | 0  | 0.5   | 3.01  | 3.51   | 7.03  |
| HS200205T07   | TRIANGLE IS  | VI     | 50.818           | 129.235           | 05-Mar-02 | 08:35 | 90                  | 00:07           |                   | 158                        | 0  | 0.13  | 0.32  | 1.07   | 1.52  |
| HS200205T08   | TRIANGLE IS  | VI     | 50.702           | 129.483           | 05-Mar-02 | 11:11 | 150                 | 00:11           |                   | 64                         | 0  | 0.47  | 1.09  | 1.88   | 3.44  |
| HS200205QCS01 | CALVERT IS   | QCSD   | 51.448           | 128.238           | 06-Mar-02 | 20:20 | 110                 | 00:15           |                   | 29                         | 0  | 0.68  | 3.41  | 4.43   | 8.52  |
| HS200205T10   | TRIANGLE IS  | VI     | 50.547           | 129.828           | 05-Mar-02 | 15:54 | 150                 |                 |                   | 66                         | 0.15   | 1.82  | 1.06  | 0.76   | 3.79  |
| HS200205JS05  | JOHNSTONE ST | JS     | 50.390           | 125.874           | 17-Mar-02 | 15:49 | 135                 | 00:07           |                   | 79                         | 0  | 0.63  | 0.63  | 2.27   | 3.54  |
| HS200205T12   | TRIANGLE IS  | VI     | 50.381           | 130.158           | 05-Mar-02 | 19:20 | 150                 |                 |                   | 58                         | 1.38   | 3.28  | 0     | 2.42   | 7.08  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name        | Region | Latitude (°N) | Longitude (°W) | Date      | Time  | Target Depth (m) | Tow Duration | Wire Angle (°) | Volume Seived (cu m) | Plankton Weights by Size Faction (g dry / 1000 cu m) |       |       |        |       |
|----------------|---------------------|--------|---------------|----------------|-----------|-------|------------------|--------------|----------------|----------------------|--|-------|-------|--------|-------|
|                |                     |        |               |                |           |       |                  |              |                |                      | 8.0mm  | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205VI01   | CARMAHAH            | VI     | 48.596        | 124.874        | 27-Feb-02 | 13:20 | 50               | 00:05        |                | 17                   | 0  | 2.41  | 3.62  | 21.11  | 27.14 |
| HS200205VI02   | PACHENA             | VI     | 48.639        | 125.133        | 27-Feb-02 | 15:27 | 70               | 00:05        |                | 21                   | 0  | 2.41  | 8.19  | 31.32  | 41.92 |
| HS200205VI03   | ESPERANZA           | VI     | 49.749        | 127.161        | 02-Mar-02 | 19:51 | 65               | 00:05        |                | 28                   | 0  | 5.45  | 2.18  | 7.63   | 15.25 |
| HS200205VI04   | OFF QUATSINO SD     | VI     | 50.389        | 128.044        | 03-Mar-02 | 12:24 | 130              | 00:07        |                | 33                   | 0  | 0     | 0.31  | 2.44   | 2.75  |
| HS200205VI05   | VAN IS N - TOPKNOT  | VI     | 50.486        | 128.289        | 03-Mar-02 | 14:45 | 75               | 00:06        |                | 17                   | 0  | 0.58  | 5.24  | 16.32  | 22.14 |
| HS200205VI06   | VAN IS N - BUSHY RK | VI     | 50.608        | 128.379        | 03-Mar-02 | 16:32 | 65               | 00:05        |                | 21                   | 0  | 3.82  | 0     | 0.96   | 4.78  |
| HS200205VI07   | VAN IS N - C RUSSEL | VI     | 50.729        | 128.489        | 03-Mar-02 | 18:34 | 75               | 00:07        |                | 24                   | 0  | 0     | 0.42  | 5.47   | 5.89  |
| HS200205T09    | TRIANGLE IS         | VI     | 50.622        | 129.662        | 05-Mar-02 | 13:25 | 150              | 00:15        |                | 88                   | 0  | 0.34  | 0.34  | 0.68   | 1.36  |
| HS200205IVI07  | QUATSINO SD         | IVI    | 50.497        | 127.749        | 03-Mar-02 | 08:08 | 105              | 00:05        |                | 62                   | 0  | 3.68  | 0.96  | 1.12   | 5.76  |
| HS200205ISEA12 | SUMNER ST           | ISEA   | 56.092        | 133.715        | 11-Mar-02 | 16:42 | 105              | 00:06        |                | 30                   | 0  | 1.33  | 1.99  | 1.66   | 4.98  |
| HS200205ISEA15 | FREDERICK SD        | ISEA   | 56.990        | 134.484        | 12-Mar-02 | 08:19 | 125              | 00:08        |                | 32                   | 0  | 3.75  | 2.5   | 1.56   | 7.81  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID     | Station Name      | Region | Latitude<br>(°N) | Longitude<br>(°W) | Date      | Time  | Target<br>Depth (m) | Tow<br>Duration | Wire<br>Angle (°) | Volume<br>Seived<br>(cu m) | Plankton Weights by Size Faction (g dry / 1000 cu m) |       |       |        |       |
|----------------|-------------------|--------|------------------|-------------------|-----------|-------|---------------------|-----------------|-------------------|----------------------------|--|-------|-------|--------|-------|
|                |                   |        |                  |                   |           |       |                     |                 |                   |                            | 8.0mm  | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205ISEA16 | FREDERICK SD      | ISEA   | 57.119           | 134.294           | 12-Mar-02 | 10:14 | 135                 | 00:08           |                   | 40                         | 1.48   | 0.99  | 0     | 1.24   | 3.71  |
| HS200205ISEA17 | FREDERICK SD      | ISEA   | 57.209           | 134.103           | 12-Mar-02 | 11:51 | 70                  | 00:05           |                   | 19                         | 0  | 0.54  | 0     | 1.08   | 1.62  |
| HS200205ISEA19 | CHATHAM ST        | ISEA   | 56.305           | 134.392           | 12-Mar-02 | 20:06 | 150                 | 00:10           |                   | 41                         | 0  | 3.69  | 1.97  | 3.2    | 8.86  |
| HS200205IVI01  | NOOTKA SD         | IVI    | 49.603           | 126.521           | 02-Mar-02 | 08:22 | 140                 | 00:09           |                   | 38                         | 0  | 18.76 | 23.71 | 20.58  | 63.05 |
| HS200205IVI02  | NOOTKA SD         | IVI    | 49.652           | 126.611           | 02-Mar-02 | 09:57 | 140                 | 00:08           |                   | 35                         | 0  | 14.9  | 18.91 | 30.37  | 64.18 |
| HS200205IVI03  | NOOTKA SD         | IVI    | 49.718           | 126.480           | 02-Mar-02 | 11:31 | 150                 | 00:07           |                   | 39                         | 0  | 4.92  | 4.14  | 8.02   | 17.08 |
| HS200205T01    | TRIANGLE IS       | QCSD   | 51.275           | 128.332           | 06-Mar-02 | 17:40 | 65                  | 00:08           |                   | 39                         | 0  | 0     | 1.78  | 5.1    | 6.88  |
| HS200205IVI05  | ESPERANZA INLET   | IVI    | 49.848           | 126.960           | 02-Mar-02 | 16:39 | 150                 | 00:10           |                   | 45                         | 0  | 10.48 | 21.85 | 11.15  | 43.49 |
| HS200205VI08   | VAN IS N - COX IS | VI     | 50.711           | 128.625           | 03-Mar-02 | 20:01 | 110                 | 00:05           |                   | 27                         | 0  | 0     | 0.36  | 4.73   | 5.1   |
| HS200205IVI08  | QUATSINO SD       | IVI    | 50.476           | 127.823           | 03-Mar-02 | 09:17 | 120                 | 00:07           |                   | 32                         | 0  | 0.93  | 2.18  | 2.18   | 5.29  |
| HS200205IVI09  | QUATSINO SD       | IVI    | 50.463           | 127.956           | 03-Mar-02 | 10:45 | 150                 | 00:06           |                   | 33                         | 0  | 0.6   | 0.6   | 2.41   | 3.62  |

Table 4. Zooplankton data from bongo tows collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| Station ID    | Station Name    | Region | Latitude<br>(°N) | Longitude<br>(°W) | Date      | Time  | Target<br>Depth (m) | Tow<br>Duration | Wire<br>Angle (°) | Volume<br>Seived<br>(cu m) | Plankton Weights by Size Fraction (g dry / 1000 cu m) |       |       |        |       |
|---------------|-----------------|--------|------------------|-------------------|-----------|-------|---------------------|-----------------|-------------------|----------------------------|---|-------|-------|--------|-------|
|               |                 |        |                  |                   |           |       |                     |                 |                   |                            | 8.0mm   | 1.7mm | 1.0mm | 0.25mm | Total |
| HS200205JF01  | JORDAN RIVER    | JF     | 48.429           | 124.220           | 27-Feb-02 | 08:24 | 80                  | 00:05           |                   | 28                         | 0   | 2.53  | 9.02  | 9.02   | 20.56 |
| HS200205JF02  | PORT SAN JUAN   | JF     | 48.520           | 124.550           | 27-Feb-02 | 10:50 | 100                 | 00:07           |                   | 30                         | 0   | 4.02  | 12.06 | 9.71   | 25.79 |
| HS200205JS01  | JOHNSTONE ST    | JS     | 50.513           | 126.581           | 17-Mar-02 | 08:11 | 150                 | 00:09           |                   | 41                         | 0   | 2.71  | 2.95  | 5.17   | 10.83 |
| HS200205JS02  | JOHNSTONE ST    | JS     | 50.500           | 126.542           | 17-Mar-02 | 10:15 | 150                 | 00:09           |                   | 39                         | 0   | 5.68  | 3.1   | 11.37  | 20.15 |
| HS200205JS03  | JOHNSTONE ST    | JS     | 50.499           | 126.274           | 17-Mar-02 | 12:17 | 150                 | 00:08           |                   | 33                         | 0   | 5.51  | 3.67  | 2.45   | 11.62 |
| HS200205JS04  | JOHNSTONE ST    | JS     | 50.482           | 126.078           | 17-Mar-02 | 14:06 | 150                 | 00:07           |                   | 32                         | 0   | 1.25  | 1.57  | 4.7    | 7.52  |
| HS200205IVI04 | ESPERANZA INLET | IVI    | 49.858           | 126.878           | 02-Mar-02 | 15:08 | 150                 | 00:08           |                   | 75                         | 0   | 7.78  | 19.18 | 6.71   | 33.67 |

Table 5. Coded Wire Tag (CWT) data collected on the CCGS W.E. RICKER survey to the Gulf of Alaska, 27/02/2002 - 17/03/2002.

| CWT     | Fish Number             | Species | Recovery Date | Recovery Region | Recovery Fork Length (mm) | Release Area | Release Agency | Hatchery             | Brood Year | Date of First Release | Date of Last Release | Age |
|---------|-------------------------|---------|---------------|-----------------|---------------------------|--------------|----------------|----------------------|------------|-----------------------|----------------------|-----|
| T093249 | HS200205-VI03-124-009   | CHINOOK | 02-Mar-02     | VI              | 215                       | LOCR         | ODFW           | SOUTH SANTIAM H      | 2000       | 29-Oct-01             | 05-Nov-01            | 0.1 |
| T184340 | HS200205-VI03-124-014   | CHINOOK | 02-Mar-02     | VI              | 262                       | WCVI         | CDFO           | H-CONUMA R           | 2000       | 12-May-01             | 22-May-01            | 0.1 |
| T184340 | HS200205-IVI04-124-005  | CHINOOK | 02-Mar-02     | IVI             | 225                       | WCVI         | CDFO           | H-CONUMA R           | 2000       | 12-May-01             | 22-May-01            | 0.1 |
| T184360 | HS200205-VI03-124-024   | CHINOOK | 02-Mar-02     | VI              | 238                       | WCVI         | CDFO           | NITINAT R H          | 2000       | 06-Jun-01             | 06-Jun-01            | 0.1 |
| T184556 | HS200205-VI03-124-023   | CHINOOK | 02-Mar-02     | VI              | 262                       | WCVI         | CDFO           | H-NITINAT R          | 2000       | 18-May-01             | 18-May-01            | 0.1 |
| T184562 | HS200205-ISEA01-124-003 | CHINOOK | 10-Mar-02     | ISEA            | 334                       | NASK         | CDFO           | H-TERRACE            | 1999       | 25-Apr-01             | 27-Apr-01            | 1.1 |
| T184701 | HS200205-EP01-124-012   | CHINOOK | 01-Mar-02     | VI              | 250                       | WCVI         | CDFO           | H-CLAYOQUOT          | 2000       | 25-May-01             | 25-May-01            | 0.1 |
| T210175 | HS200205-JF02-115-007   | COHO    | 27-Feb-02     | JF              | 317                       | NOOK         | LUMM           | SKOOKUM CR H         | 1999       | 23-May-01             | 01-Jun-01            | 1.1 |
| T210177 | HS200205-JF02-115-004   | COHO    | 27-Feb-02     | JF              | 302                       | NOOK         | LUMM           | LUMMI SEA PONDS      | 1999       | 23-May-01             | 23-May-01            | 1.1 |
| T210177 | HS200205-JF01-115-001   | COHO    | 27-Feb-02     | JF              | 320                       | NOOK         | LUMM           | LUMMI SEA PONDS      | 1999       | 23-May-01             | 23-May-01            | 1.1 |
| T210196 | HS200205-JF02-115-008   | COHO    | 27-Feb-02     | JF              | 318                       | MPS          | COOP           | ELLIOTT BY TRIBAL NP | 1999       | 10-Jun-01             | 10-Jun-01            | 1.1 |
| T210196 | HS200205-JF02-115-002   | COHO    | 27-Feb-02     | JF              | 340                       | MPS          | COOP           | ELLIOTT BY TRIBAL NP | 1999       | 10-Jun-01             | 10-Jun-01            | 1.1 |
| T630296 | HS200205-VI02-115-001   | COHO    | 27-Feb-02     | VI              | 289                       | MPS          | WDFW           | VOIGHTS CR H         | 1999       | 15-Apr-01             | 30-Apr-01            | 1.1 |
| T630365 | HS200205-JF02-115-006   | COHO    | 27-Feb-02     | JF              | 375                       | LOCR         | WDFW           | COWLITZ SALMON H     | 1999       | 30-Apr-01             | 30-Apr-01            | 1.1 |
| T631357 | HS200205-JF02-115-005   | COHO    | 27-Feb-02     | JF              | 311                       | MPS          | WDFW           | SOOS CREEK H         | 1999       | 09-Apr-01             | 18-Apr-01            | 1.1 |
| T631358 | HS200205-JF02-115-003   | COHO    | 27-Feb-02     | JF              | 293                       | MPS          | WDFW           | SOOS CREEK H         | 1999       | 09-Apr-01             | 18-Apr-01            | 1.1 |

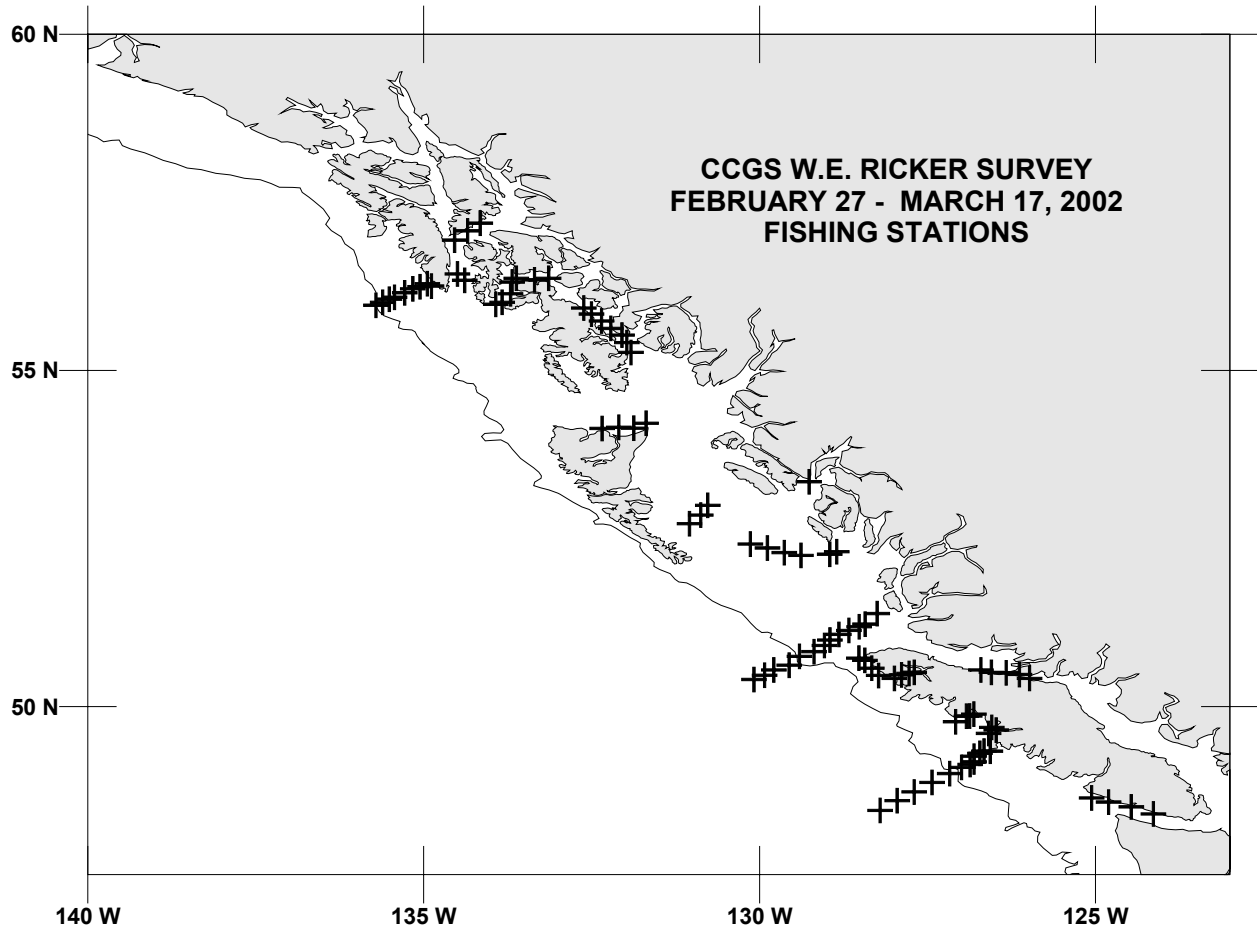


Figure 1. Fishing stations on the CCGS W.E. Ricker survey to the Gulf of Alaska from February 27 – March 17, 2002.

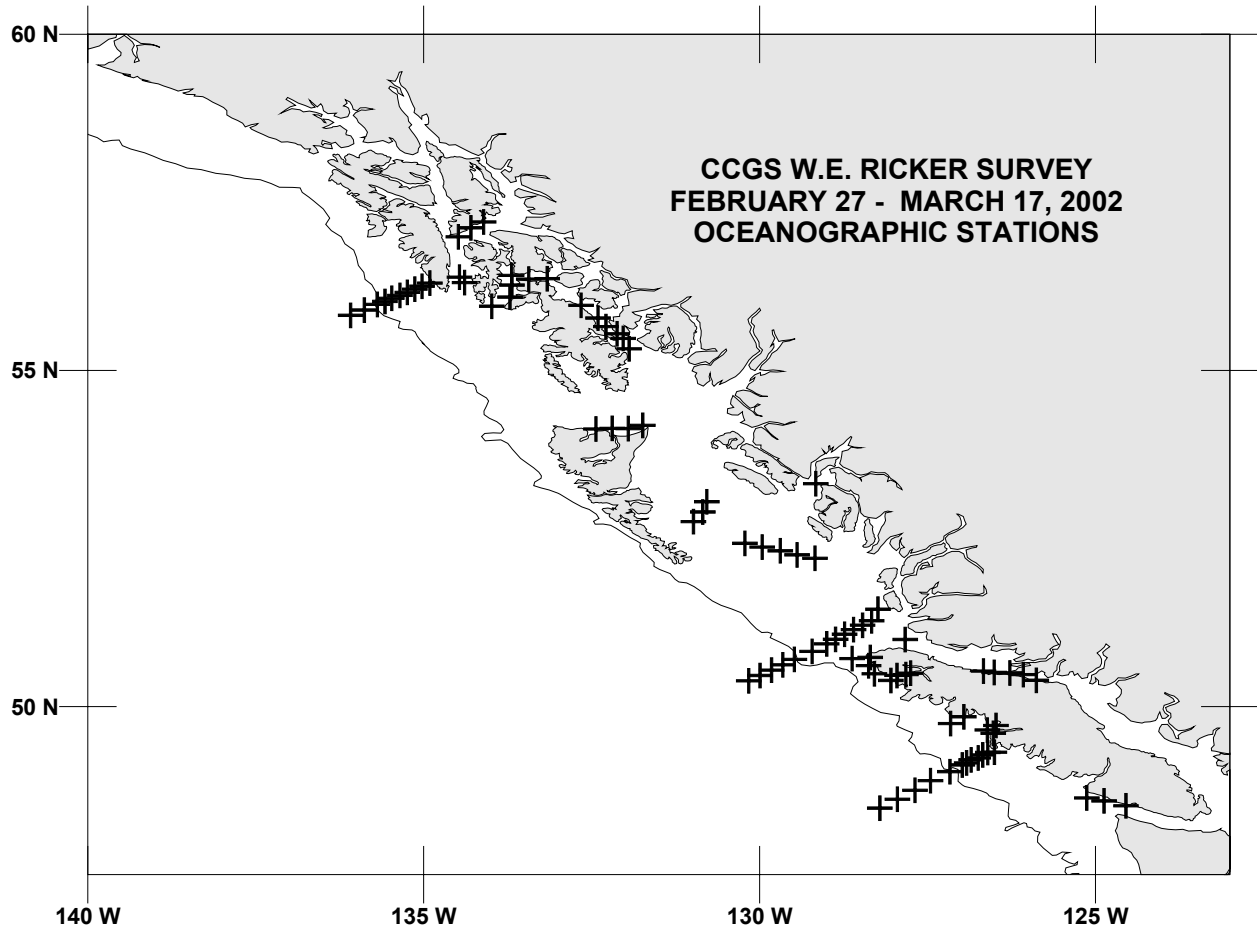


Figure 2. Oceanographic stations on the CCGS W.E. Ricker survey to the Gulf of Alaska from February 27 - March 17, 2002.



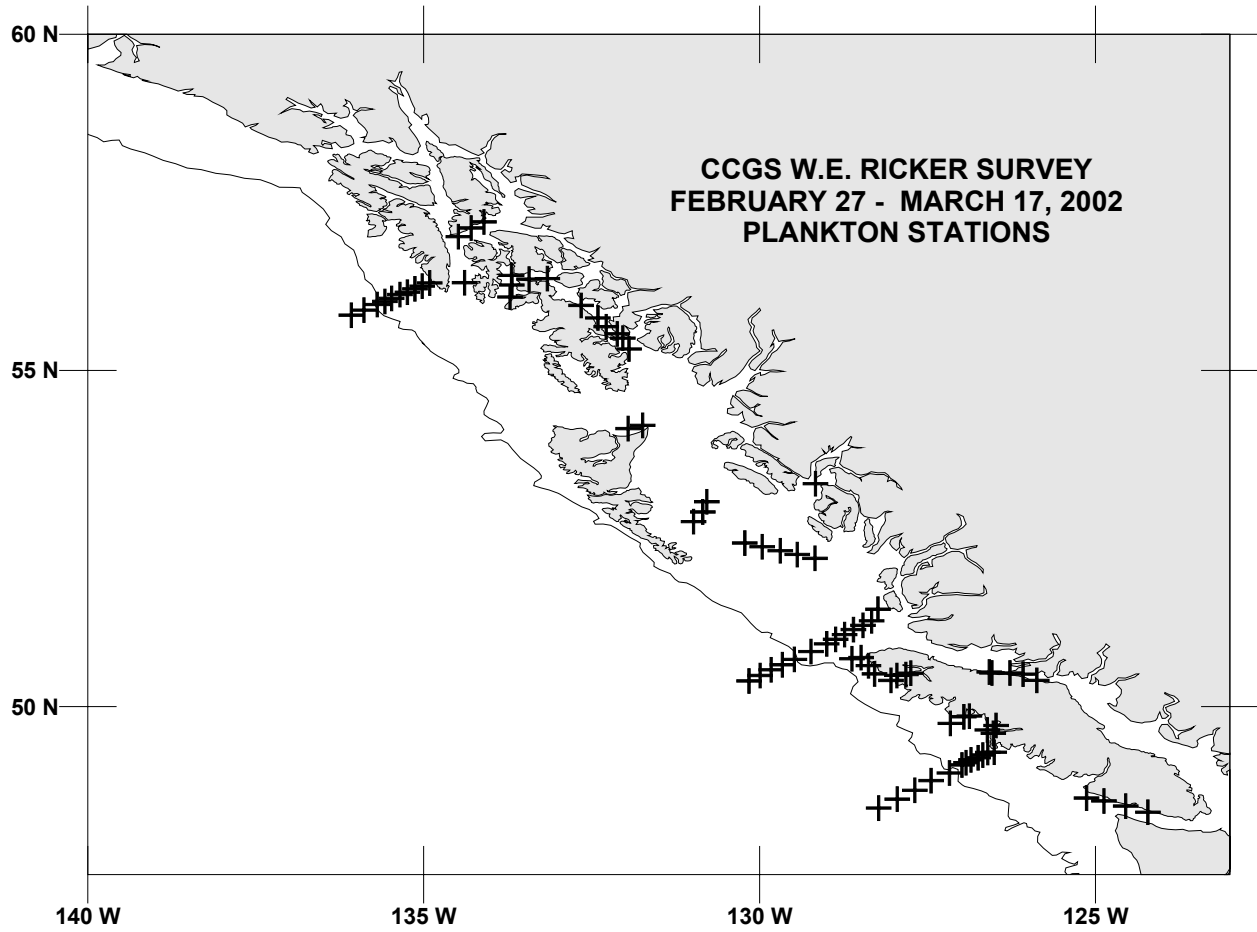


Figure 3. Plankton stations on the CCGS W.E. Ricker survey to the Gulf of Alaska from February 27 – March 17, 2002.

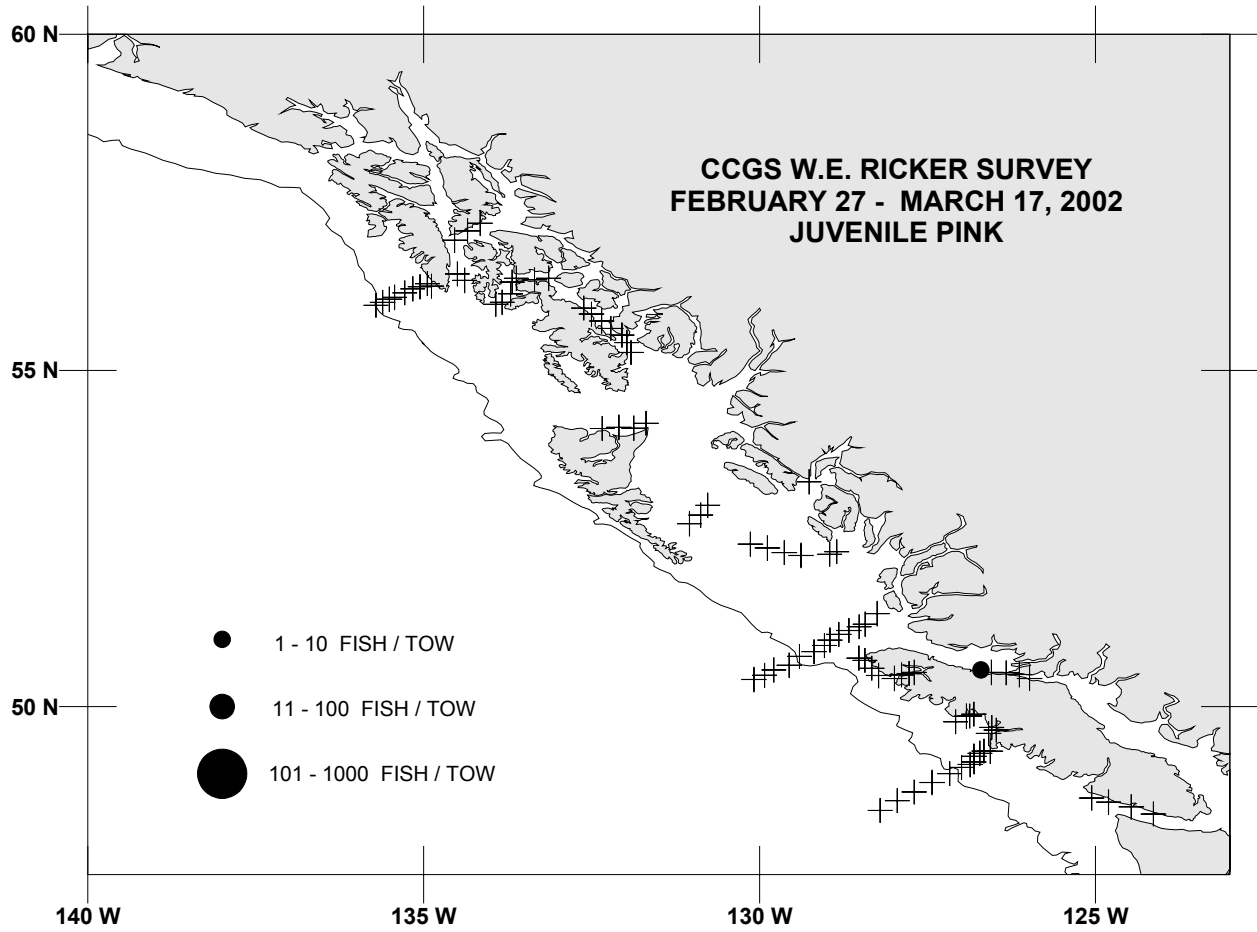


Figure 4. Distribution of juvenile (age 0.1) pink salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

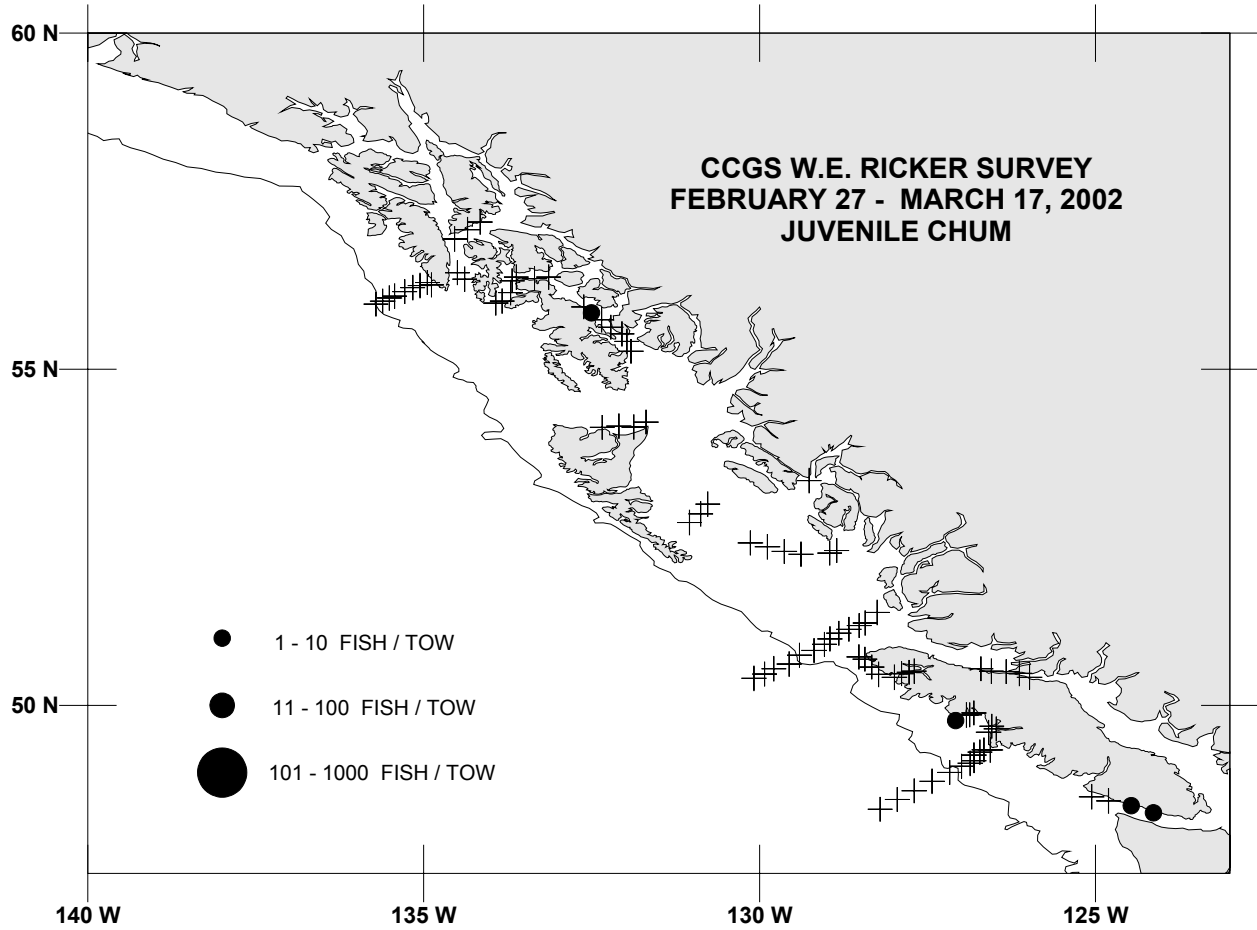


Figure 5. Distribution of juvenile (age 0.1) chum salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

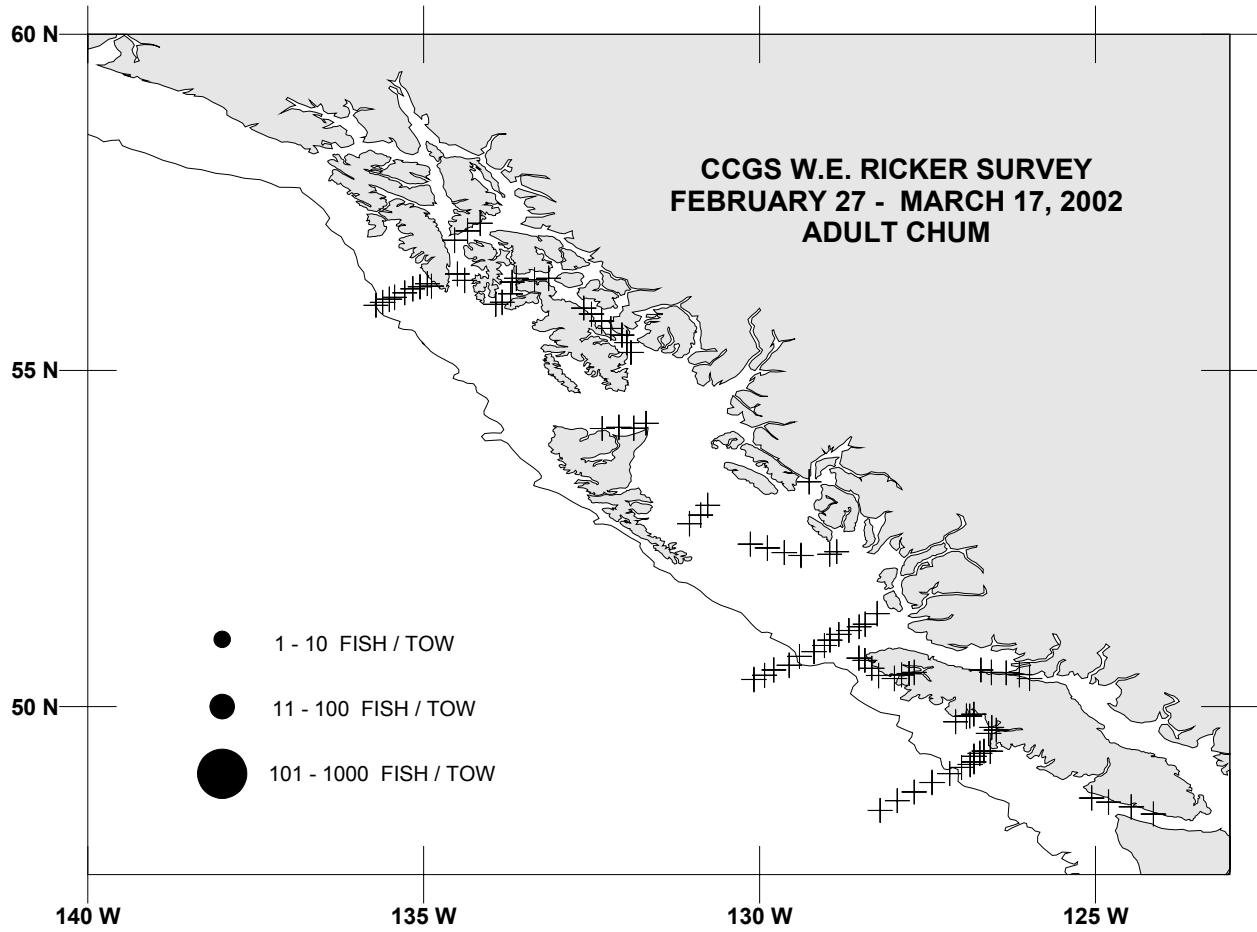


Figure 6. Distribution of adult (age 0.2 and over) chum salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

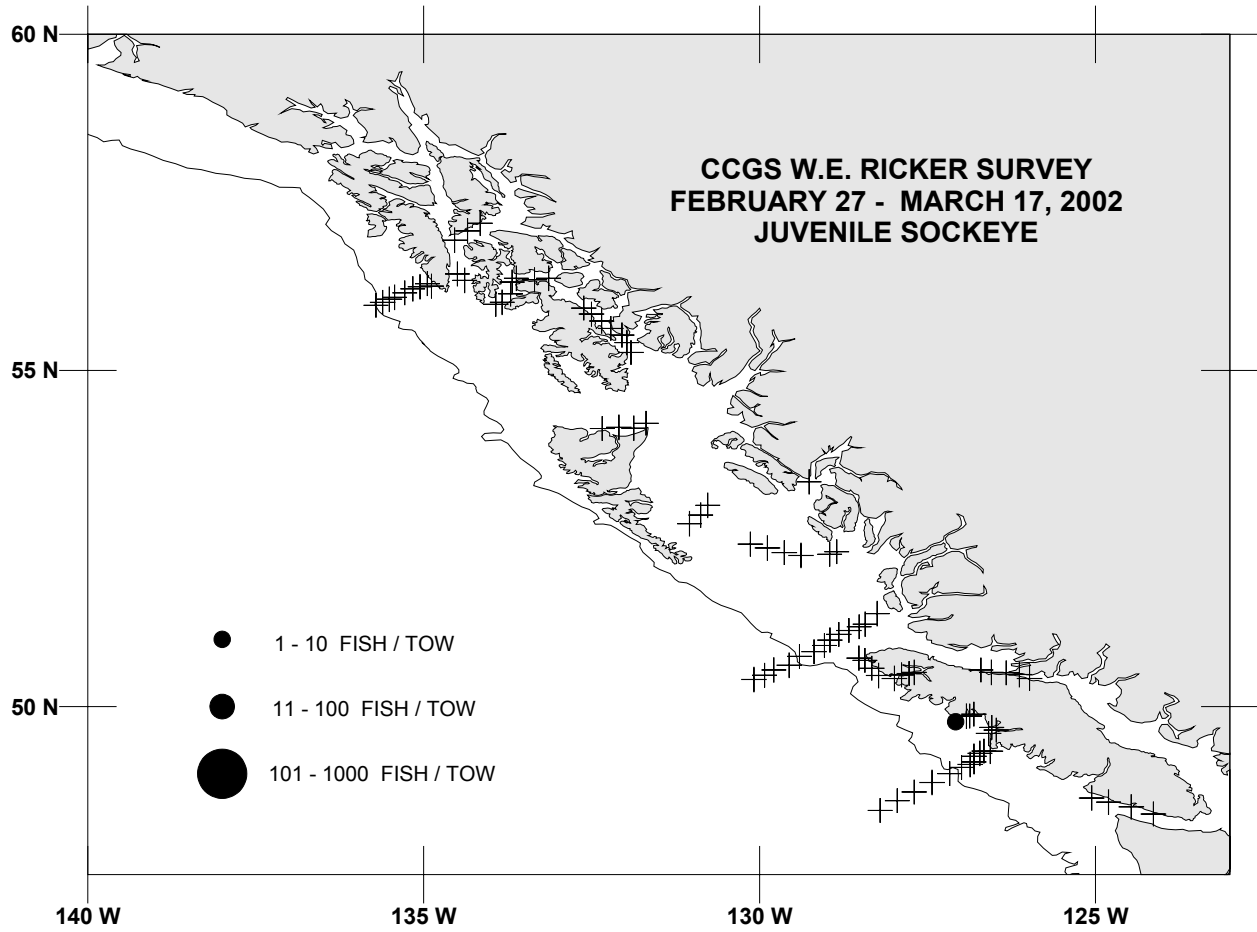


Figure 7. Distribution of juvenile (age X.1) sockeye salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

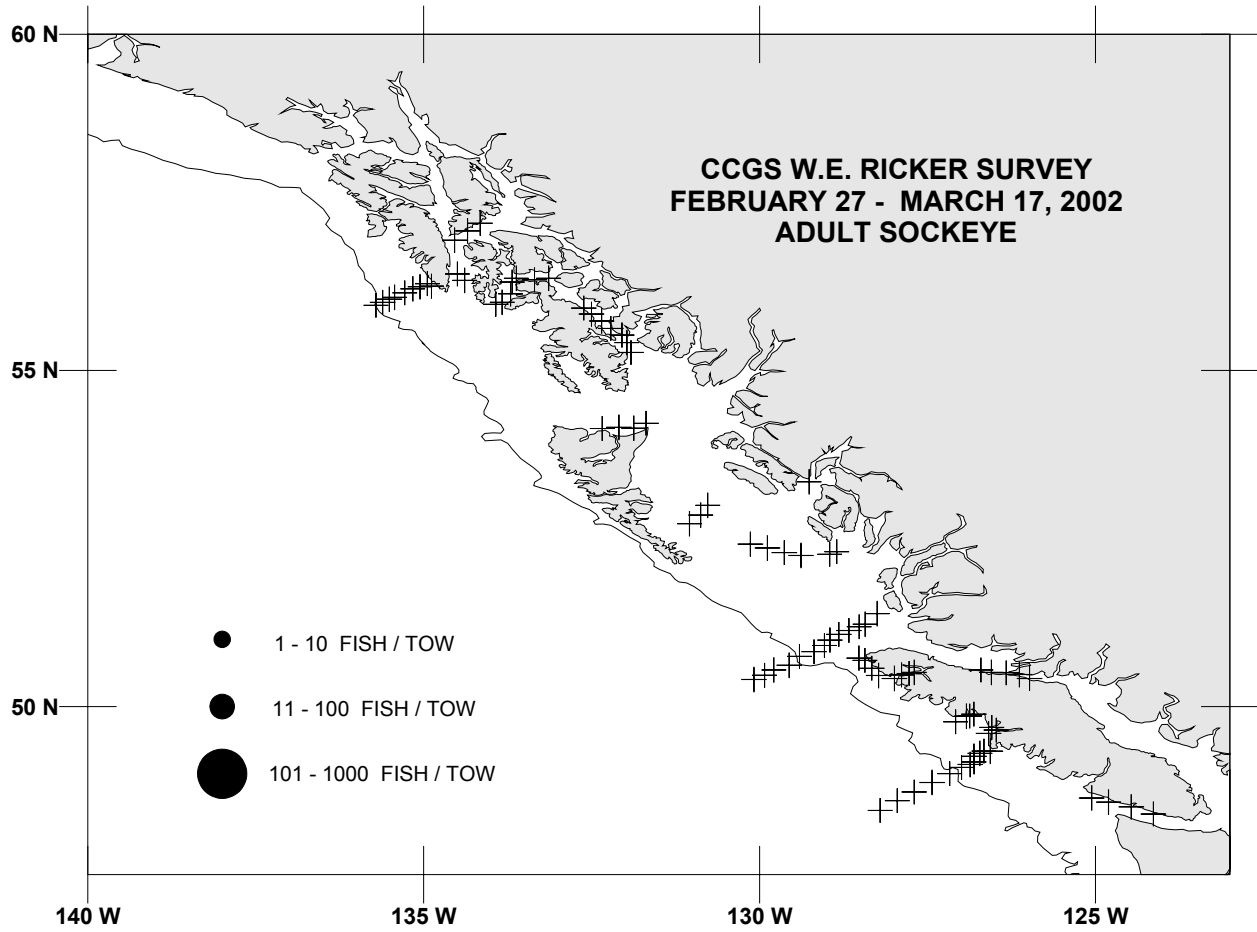


Figure 8. Distribution of adult (age X.2 and over) sockeye salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

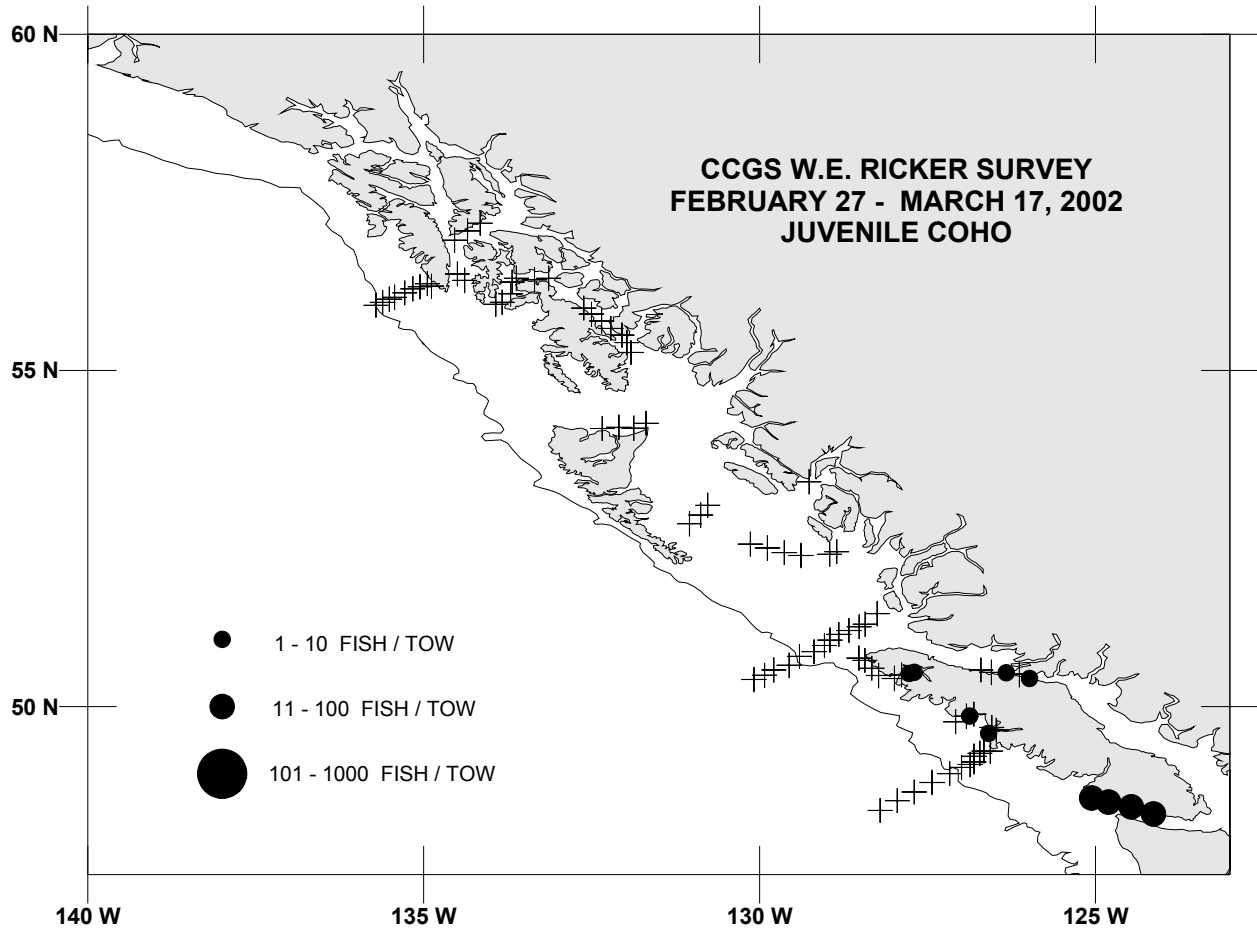


Figure 9. Distribution of juvenile (age X.1) coho salmon catches. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

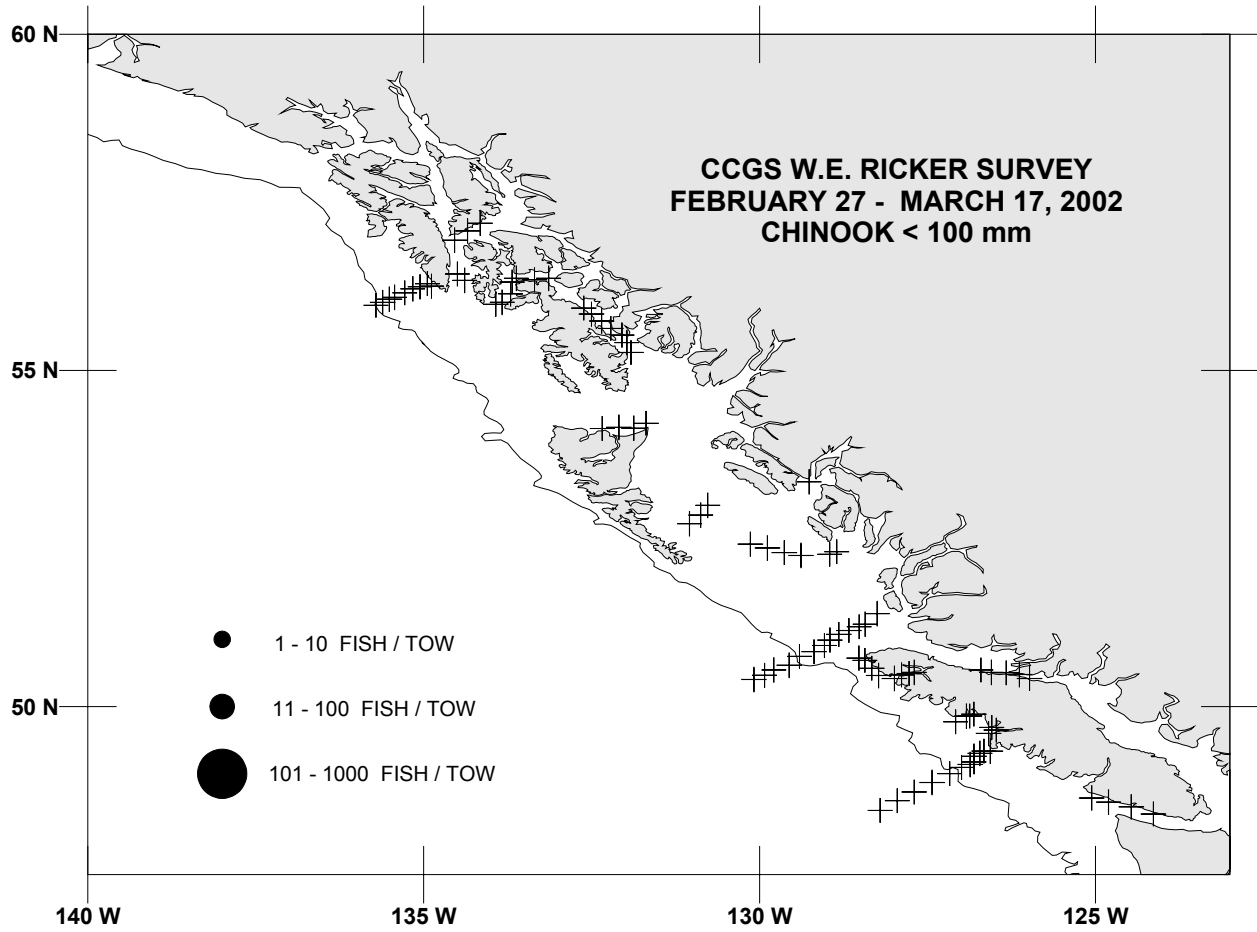


Figure 10. Distribution of catches of chinook salmon less than 100 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).



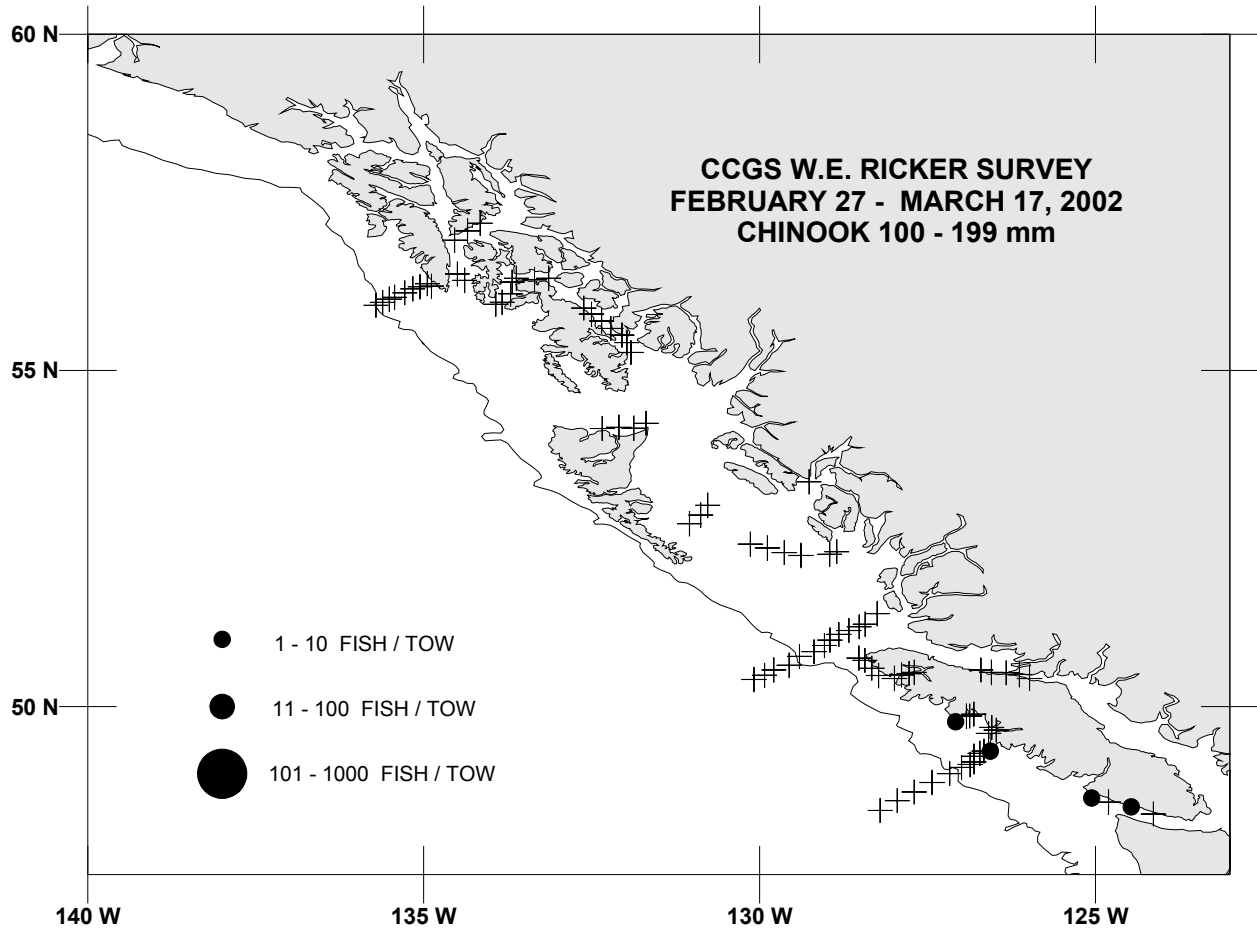


Figure 11. Distribution of catches of chinook salmon from 100 to 199 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

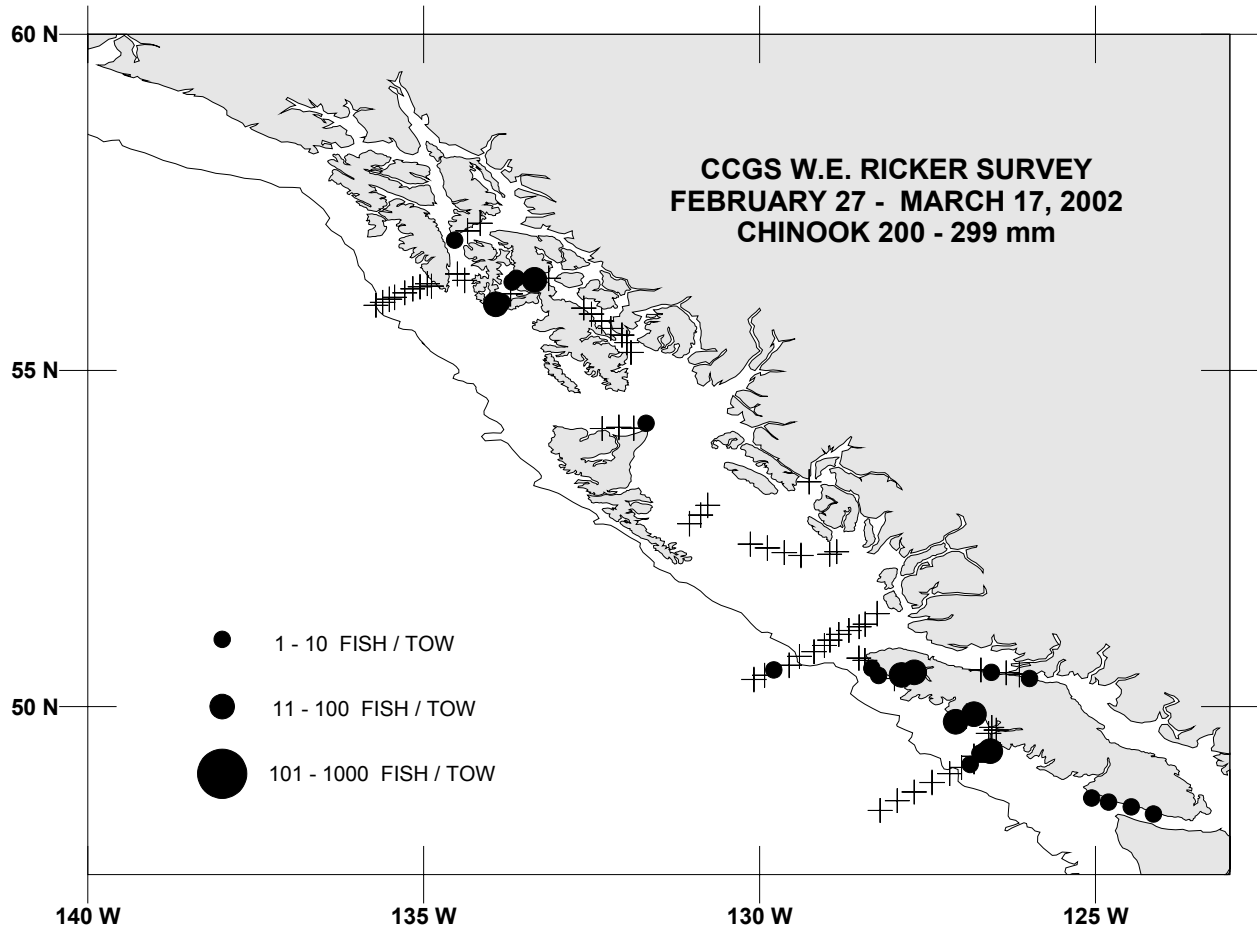


Figure 12. Distribution of catches of chinook salmon from 200 to 299 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

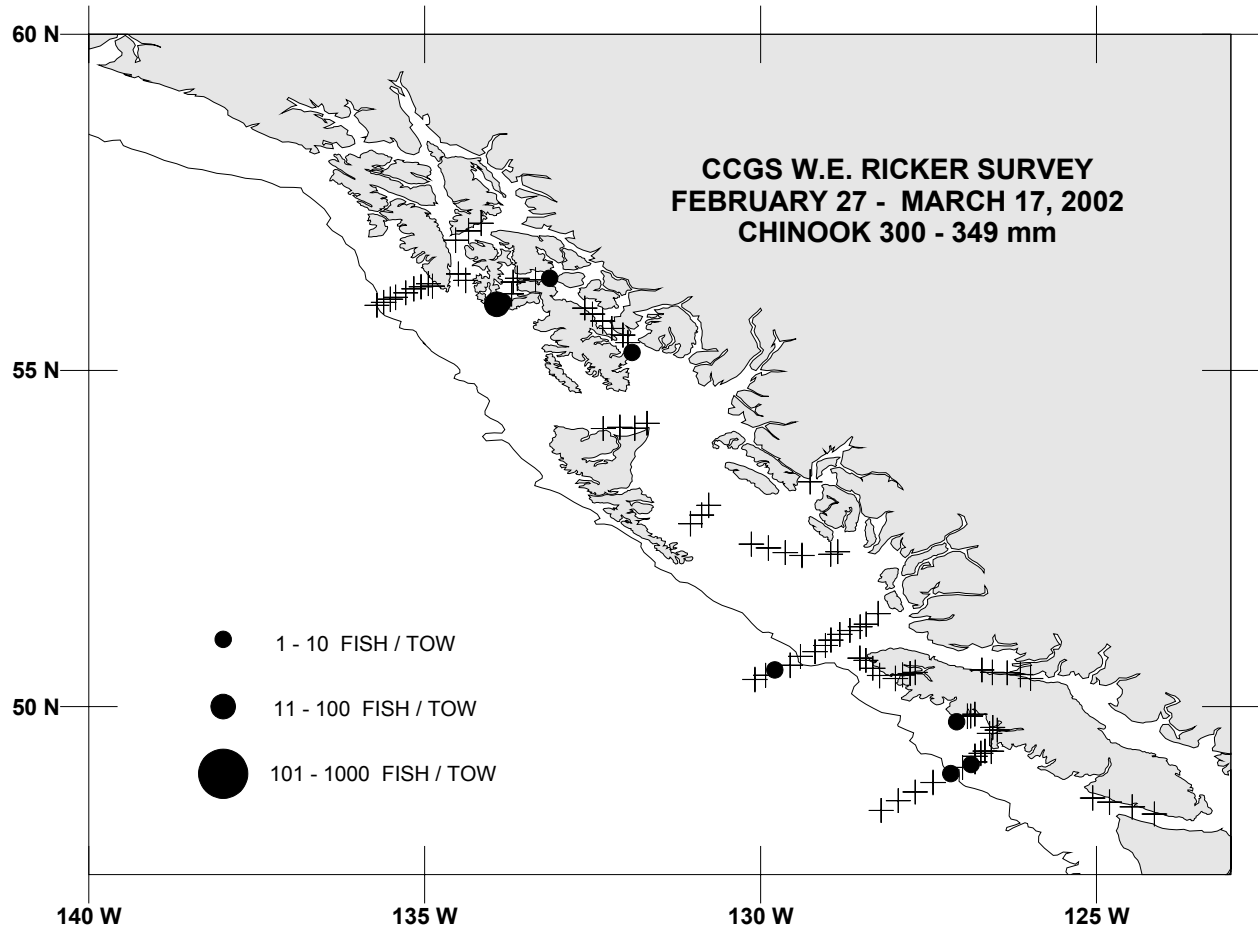


Figure 13. Distribution of catches of chinook salmon from 300 to 349 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

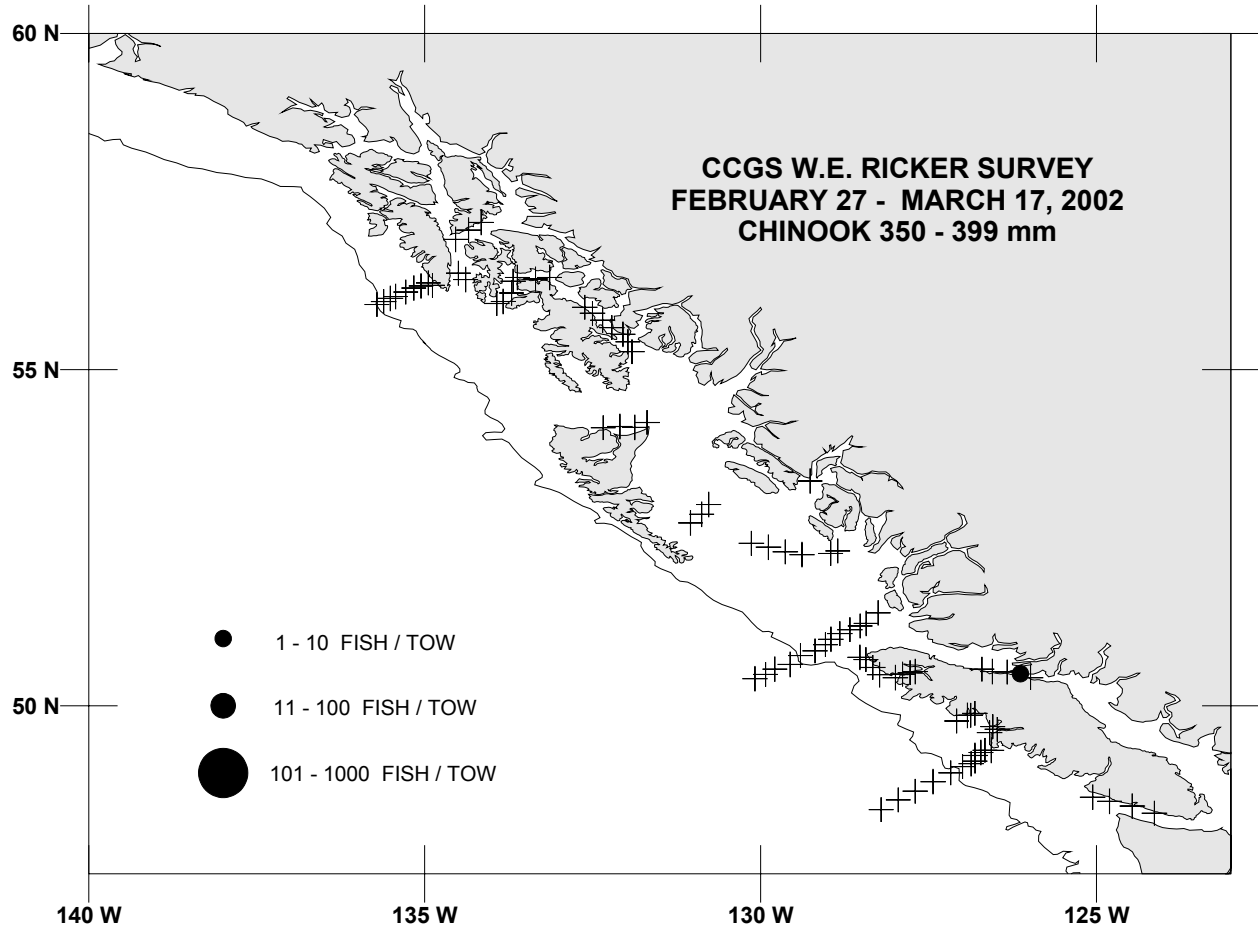


Figure 14. Distribution of catches of chinook salmon from 350 to 399 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

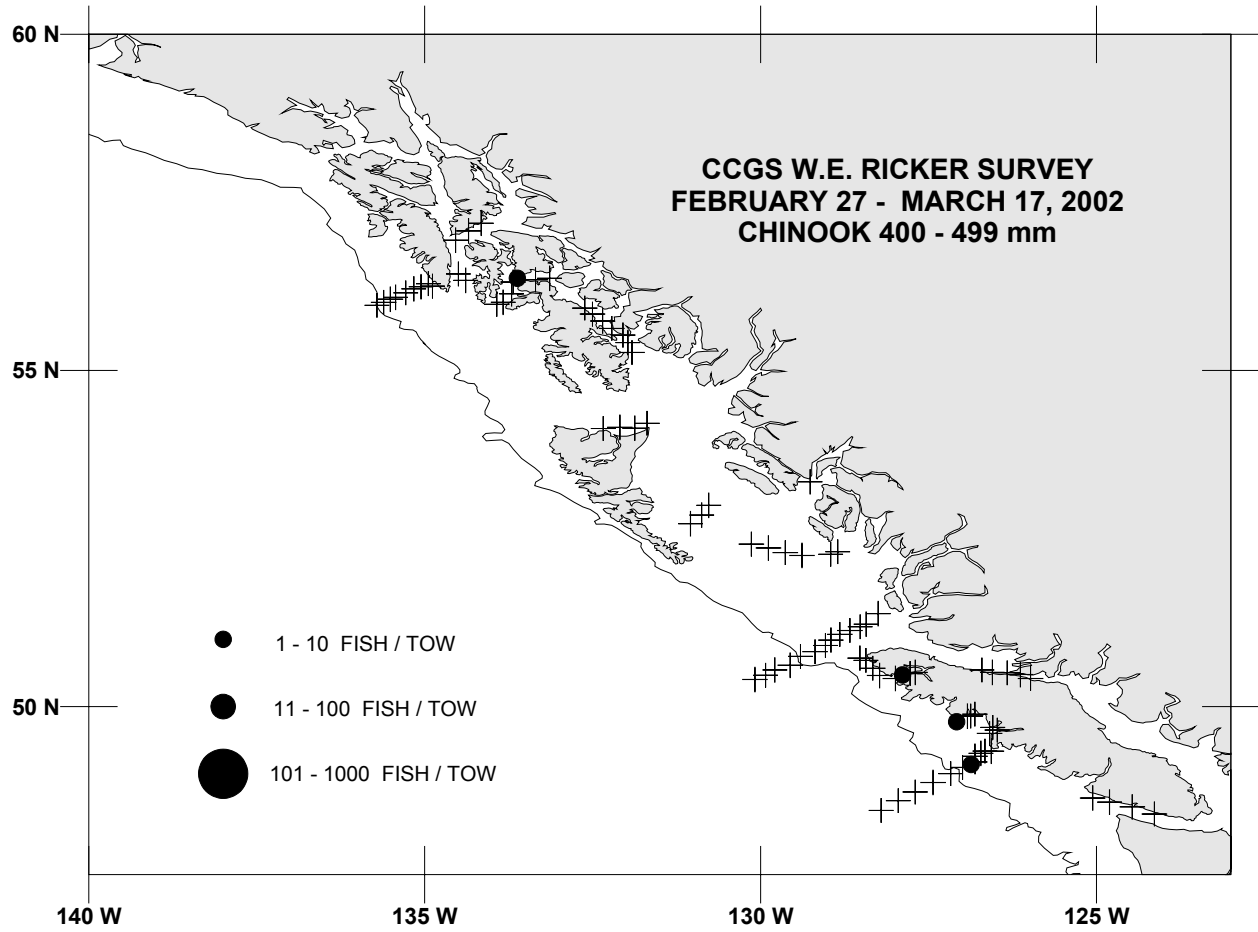


Figure 15. Distribution of catches of chinook salmon from 400 to 499 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

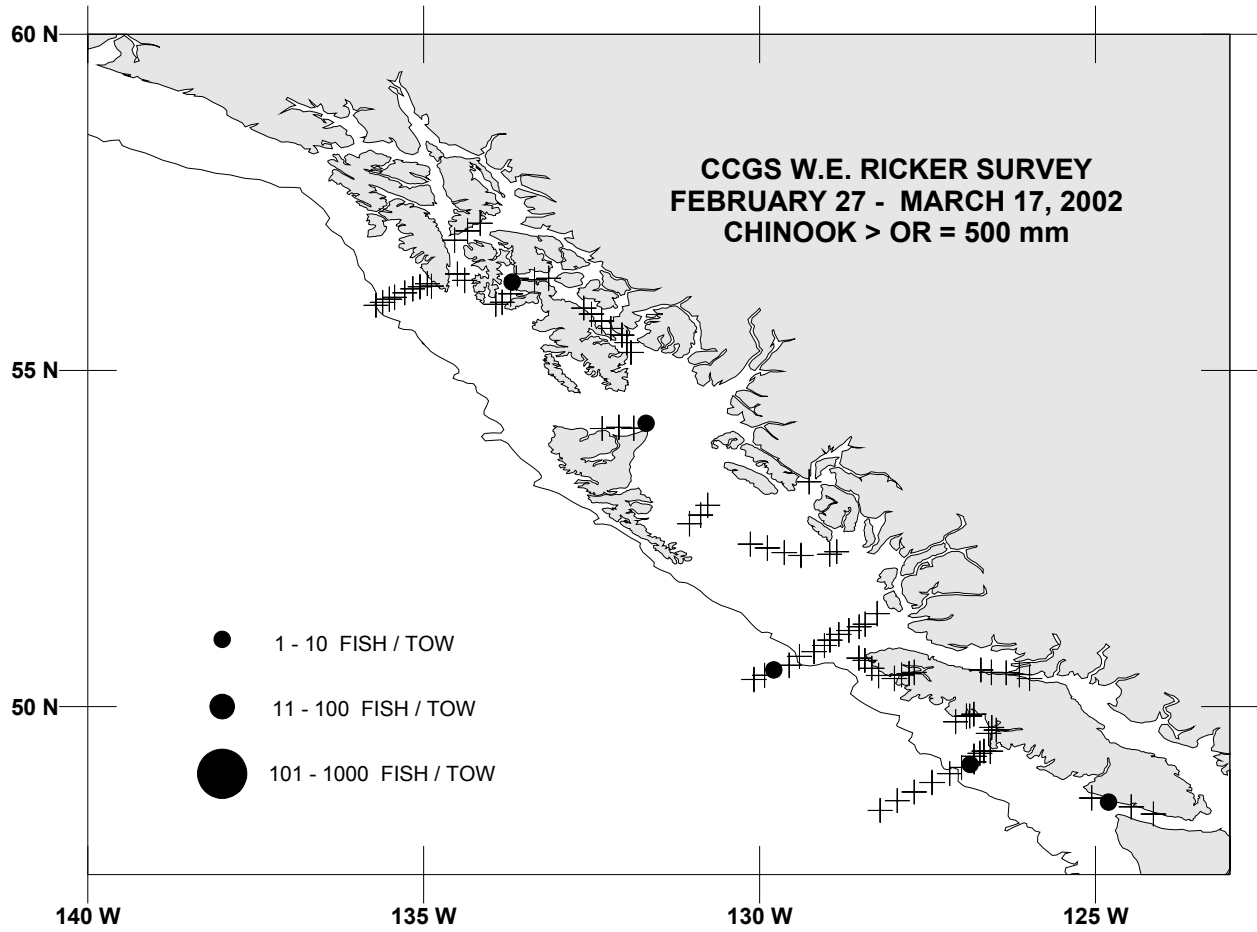


Figure 16. Distribution of catches of chinook salmon equal to or greater than 500 mm. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

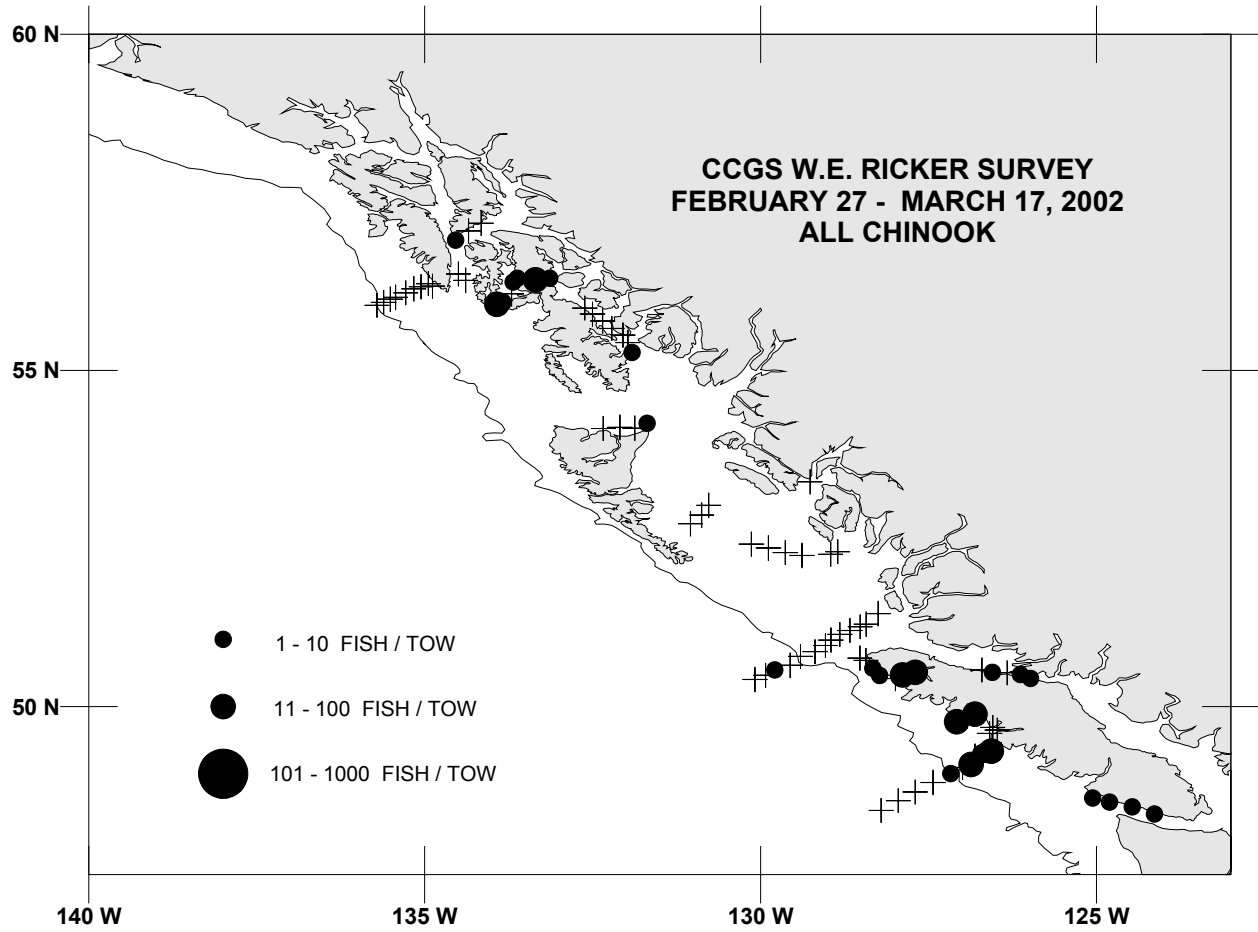


Figure 17. Distribution of catches of chinook salmon from all size classes. Symbol size (●) is proportional to catch per tow; zero catches are shown by a (+).

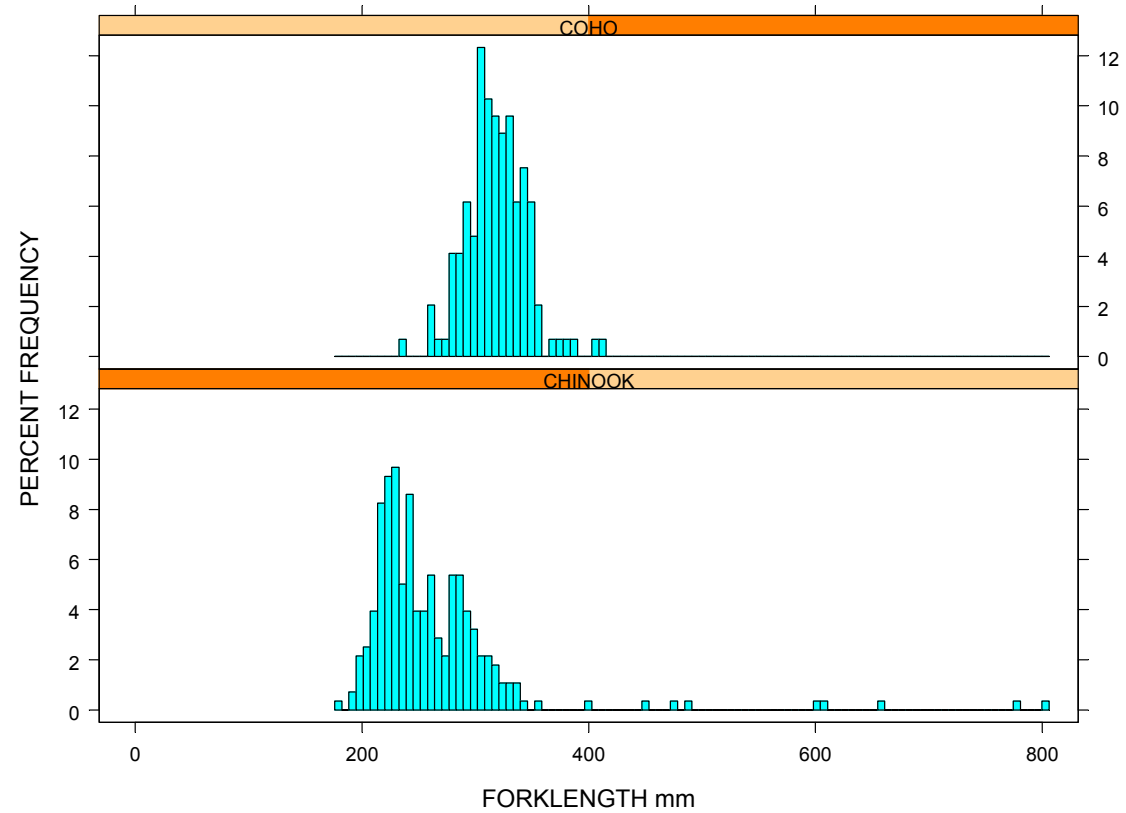


Figure 18. Size distribution (fork length; mm) of Pacific salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska from February 27 - March 17, 2002.