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*CCGS W.E. RICKER GULF OF ALASKA SALMON SURVEY,
NOVEMBER - DECEMBER 1997*

by

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ABSTRACT

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The Canadian Department of Fisheries and Oceans conducted a survey of the fall distribution of juvenile Pacific salmon (*Oncorhynchus spp.*) from November 1 to December 12, 1997, in the northern Gulf of Alaska. This survey demonstrated that: (1) juvenile salmon were still confined to the continental shelf region of the Gulf of Alaska in November - December, consistent with previous fall and summer surveys, conducted in October in waters east of Kodiak Island; (2) juvenile salmon have vacated Southeast Alaskan shelf waters by November and are still migrating in a rapid and focused manner counter-clockwise along the continental shelf around the Gulf of Alaska towards the Aleutian Archipelago; and (3) contrary to previous belief, juvenile salmon do not enter the Gulf of Alaska from continental shelf regions of the Gulf of Alaska. Our results show that North American juvenile salmon migrate in a strongly directed fashion along the continental shelf at least as far as the start of the Aleutian Archipelago, and have not yet begun their migration to the offshore. It is unclear from the current surveys when they move into the open ocean, or why most species migrate en masse to the Aleutians in winter.

RESUME

Welch, D. W., J. F. T. Morris, and E. Demers. 2002. CCGS *W.E. Ricker* Gulf of Alaska salmon survey, November - December 1997. Can. Data Rep. Fish. Aquat. Sci. 1102: 45 p.

*Le Département Canadien des Pêches et Océans a réalisé une étude sur la distribution automnale des saumons juvéniles (*Oncorhynchus spp.*) du 1^{er} novembre au 12 décembre 1997 dans la partie nord du Golfe de l'Alaska. Cette étude a démontré que : (1) les saumons juvéniles étaient toujours confinés sur la région du plateau continental du Golfe de l'Alaska en novembre - décembre, ce qui est consistant avec les études antérieures réalisées à l'automne et à l'été; (2) les saumons juvéniles avaient quitté les eaux du plateau continental du Sud-Est de l'Alaska et qu'ils migraient toujours d'une façon rapide et dirigée dans le sens anti-horaire autour du Golfe de l'Alaska sur le plateau continental jusqu'à l'archipel des Aléoutiennes; (3) contrairement aux hypothèses antérieures, les saumons juvéniles n'entrent pas dans le Golfe de l'Alaska à partir de la région du plateau continental du Golfe de l'Alaska. Nos résultats démontrent que les saumons juvéniles nord américains migrent dans une direction fortement dirigée le long du plateau continental, et qu'ils n'ont pas encore entamé leur migration vers le large. Les raisons pour lesquelles ils migrent vers le large ou toutes les espèces migrent en masse jusqu'aux Aléoutiennes durant l'hiver sont encore incertaines.*

INTRODUCTION

A survey of the fall distribution of juvenile salmon (*Oncorhynchus spp.*) was conducted from November 1 - December 12, 1997, in the northern Gulf of Alaska using a pelagic rope trawl on the CCGS *W.E. Ricker*. The survey had the following objectives:

- 1) to determine whether juvenile Pacific salmon migrations within the Alaskan Coastal Current extend westward past Kodiak Island and along the Aleutian Archipelago in the late fall, or whether the juvenile salmon move off the continental shelf in regions east of Kodiak Island in the late fall into the central Gulf of Alaska;
- 2) to determine the seaward extent of juvenile salmon on the continental shelf;
- 3) to collect data on the factors limiting the distribution of juvenile salmon to continental shelf regions; and,
- 4) to collect detailed oceanographic measurements on the Alaskan Coastal Current.

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 fall 1997 survey. A total of 70 fishing stations, 104 oceanographic stations, and 44 zooplankton stations were completed during the fall 1997 survey.

Fishing was completed along seven transects around the Gulf of Alaska from Southeast Alaska to Dutch Harbor, Alaska. Each transect was designed to extend from a position on the continental shelf to a position 200 km offshore, well beyond the 1000 m bathymetric contour. A description of the stations and transects completed is included below:

- 1) Cape Ommaney at the southern tip of Baranof Island with 13 fishing stations, 14 oceanographic stations and 11 zooplankton stations;
- 2) Cape Cross at the northern end of Chichagof Island, Southeast Alaska, with 7 fishing stations, 9 oceanographic stations and 4 zooplankton stations;
- 3) Cape Chiniak at the eastern end of Kodiak Island with 19 fishing stations, 22 oceanographic stations, and 14 zooplankton stations;
- 4) East of Mitrofania Island off the Alaska Peninsula, with 12 fishing stations, 11 oceanographic stations and 7 zooplankton stations;
- 5) one transect near the Shumagin Islands south of the Alaska Peninsula (cut short by severe weather) with 3 fishing and zooplankton stations, 13 oceanographic stations;

- 6) one transect on Sanak Bank off the Aleutians near Dutch Harbor, Alaska, with 7 fishing stations, 9 oceanographic stations; and,
- 7) another abbreviated transect off Cape Spencer, Southeast Alaska, (again, cut short by severe weather) taken on the return trip to Nanaimo, BC, with 3 fishing stations, 8 oceanographic stations.

Additional stations were also completed in the central Gulf of Alaska en route from Cape Ommaney, Southeast Alaska, to the start position of the Cape Chiniak transect off Kodiak Island, with 6 fishing stations, 9 oceanographic stations and 5 zooplankton stations. Six additional oceanographic stations were completed northeast of Kodiak Island. Two oceanographic stations were completed en route from Kodiak Island to Cape Spencer. A single oceanographic station was completed in Fitz Hugh Sound inside the central coast of British Columbia.

Ship, Fishing Gear and Fishing Operations

The CCGS W.E. Ricker is a 1,104 gross tonnes stern trawler, 58 m in length, 9.5 m in beam, and powered by a 2,500 H.P. model AH 40 Akasaka diesel engine. Fish sampling was conducted during daytime with a model 400/580 mid-water trawl, manufactured by Cantrawl Pacific Ltd., Richmond, BC. The trawl measured 200 m in length, and had a front-end section of hexagonal mesh made with 3/8 in (9.5 mm) and 5/16 in (7.9 mm) Tenex rope, a 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 1.5 in (3.8 cm) nylon cod end lined with 0.25 in (6.4 mm) mesh. The trawl had three 120 m bridles of 5/8 in. 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. warp was paid out to tow the trawl at the surface.

The trawl was deployed within 5 m of the surface at speeds from 4.5 to 5 knots ($2.3 \text{ to } 2.6 \text{ m s}^{-1}$). A measured trawl mouth opening of approximately 30 m horizontal by 16 m vertical (measured using a ScanMar trawl eye) was achieved using the following configuration: 125 m of 1.25 in (3.2 cm) steel warp, three 120 m 5/8 in (1.6 cm) bridles per side attached at a single hook-up to 5 m US Jet mid-water trawl doors. Eight 12 in (30.5 cm) diameter Scotsman floats were tied into the kite attached to the headrope, and two 20 in (50.8 cm) diameter Scotsman floats were attached at each wing tip to provide added floatation.

Oceanographic sampling

At all oceanographic and fishing stations, the scientific crew (1) conducted CTD (conductivity-temperature-depth) casts, (2) collected surface seawater samples for nitrate, phosphate, silicate and salinity from the ship's pumped sea water loop, (3) collected filtered surface seawater to measure chlorophyll a and phaeophytin, and (4)

used an acoustic Doppler current profiler (ADCP) to measure velocities and direction of currents with depth.

CTD casts were conducted to within 5 m of the bottom or a maximum depth of 1,000 m with a Guildline CTD probe (Serial # 58483). Six calibration samples from selected CTD casts were collected over the course of the survey with Niskin bottles at depths where the salinities were stable. The Niskin bottles were equipped with two reversing digital thermometers (serial #'s T557 and T647) and a pressure sensor (serial # P2099) with a 2,000 Dbar pressure range.

Surface samples were drawn from the ship's seawater loop at all stations for subsequent measurement of nitrate, phosphate, silicate, and salinity levels. Nitrate and phosphate samples were collected in acid-washed glass test tubes and stored frozen. Silicate samples were collected in acid-washed plastic test tubes and also stored frozen. A 500 ml seawater sample was filtered on an ashed GF/F Whatman glass fiber filter, folded in half, wrapped in aluminum foil and frozen for subsequent measurement of chlorophyll *a* and phaeophytin.

A Sea-Bird thermosalinograph recorded a continuous log of sea surface salinity and temperature from the ship's seawater loop. Surface seawater samples from the ship's seawater loop were taken at every station as a check on the accuracy of the salinity probe. Thermosalinograph and CTD data can be obtained from Joe Linguanti, Senior Analyst, Ocean Sciences & Productivity Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, 9860 West Saanich Rd, Sidney, BC, Canada V8L 4B2. Tel: (250) 363-6586; E-mail: linguantij@dfo-mpo.gc.ca.

An acoustic Doppler current profiler (ADCP), RD Industries, frequency 150 kHz, was run continuously to measure velocities and direction of currents with depth along the survey track. The ADCP data was logged with Transect ver.1.82 software. ADCP analyses can be obtained from Dr. Andreas Münchow, Rutgers University, New Brunswick, New Jersey. E-mail: andreas@imcs.rutgers.edu

Zooplankton Sampling

Oblique bongo tows to approximately 150 m were conducted with 57 cm diameter, 253 μm Nitex nets. Standard sampling protocol was followed at each station and consisted of a 0.3 m s^{-1} net retrieval speed while towing at 2 knots (1.0 m s^{-1}) after reaching the target depth. Most bongo tows were completed within 20 minutes from the time of deployment.

Zooplankton were sorted into four size fractions by successively sieving through 8.0, 1.7, 1.0, and 0.25 mm screens. The size fractions were weighed wet, dried at 60°C for 48 hours, re-weighed, and stored in plastic bags for future $\delta^{14}\text{C}$ and $\delta^{15}\text{N}$ isotope analyses.

RESULTS

Salmon Catch Data

Table 1 reports information on the rope trawl tows and a summary of salmon catches for the survey. The following information is included: station ID, transect name, sampling region, date and time in Pacific Standard Time (PST), start latitude ($^{\circ}$ N) and longitude ($^{\circ}$ W), heading ($^{\circ}$ T; degrees true), and bottom depth (m). Station ID numbers consisted of the Pacific Biological Station cruise designation ("HS9735", where HS stands for High Seas), followed by a consecutive tow number (e.g., "HS973501" for the first tow of the survey). The station ID number serves as the primary key in the High Seas database that links fishing tow information with the oceanographic and zooplankton tables.

For each tow, catch totals are provided for chinook salmon (*O. tshawytscha*) ("CK") of all ages combined, and separately for juveniles and adults of chum (*O. keta*) ("CM"), coho (*O. kisutch*) ("CO"), pink (*O. gorbuscha*) ("PK") and sockeye salmon (*O. nerka*) ("SE"). In this report, "juveniles" are defined as salmon in their first year in the ocean (age .0+), while "adults" include all older age groups (age .1+ or older). Age separation was determined based on examination of size distributions (fork length) which showed non-overlapping modes for pink, chum, sockeye and coho salmon. For chinook salmon, age separation was not possible because individual sizes overlapped between age groups. Therefore, chinook salmon catches were not divided into juveniles and adults.

A total of 1,081 Pacific salmon were caught during the Fall 1997 survey. Juvenile pink salmon dominated the catches (577). Juvenile chum salmon (330) and sockeye salmon (137) were also abundant. Only 4 adult fish were caught during this survey.

Spatial Distribution of Catches

Figure 4 shows the spatial distribution of chinook salmon (all ages) catches. Figures 5-8 show the spatial distribution of juvenile chum, coho, pink and sockeye salmon catches, respectively. Figures 9-12 show the spatial distribution of adult chum, coho, pink and sockeye salmon catches, respectively.

Juvenile salmon were extremely scarce at the start of the survey off Southeast Alaska. None were caught at the 13 stations on the Cape Ommaney transect and only 5 juvenile pink salmon were caught at the nearest inshore station on the Cape Cross transect off the northern end of Chichagof Island (Figure 7). In addition, no juveniles were caught at the 6 stations in the central Gulf of Alaska or at the 11 offshore stations on the Cape Chiniak transect beyond the 1,000 m isobath.

Large numbers of juvenile salmon were abruptly encountered on the shelf break and onto the continental shelf along the Cape Chiniak transect. Here, a total of 700 juvenile salmon were caught at 8 stations.

In contrast to the two previous years of fall (October) surveys, much of the fishing effort was focused in regions to the west of Kodiak during the 1997 survey. Also, this survey was completed one month later than during previous years. Owing to the intense winter weather conditions, only three transects were completed to the west of Kodiak Island. On the first transect, approximately 300 km west of Kodiak near Mitrofania Island, 195 juvenile salmon were caught at 7 stations on the shelf, and only 3 were caught at the 5 stations seaward of the shelf. The second transect, further west off the Alaska Peninsula near the Shumagin Islands, was cut short prior to reaching the shelf break because of deteriorating weather conditions.

At this point in the survey, the fall 1997 distribution of juvenile salmon was fully consistent with the two previous fall surveys in 1995 and 1996. As in prior years, all juvenile salmon were strictly confined to the shelf and slope region, and they were strictly absent seaward of the 1,000 m isobath around the Gulf of Alaska.

After more than a week of waiting for a break in the weather, a third and final transect was made west of Kodiak Island at the very western tip of the Alaskan Peninsula on Sanak Bank, at the start of the Aleutian Archipelago. Here, for the first time in three years of fall surveys, a few juveniles were caught past the shelf break. However, the 12 juvenile salmon caught on the 4 offshore tows represented only 7.5% of the total catch on this transect. It is apparent from these results that the majority of the fish were still moving west on the shelf, although by this point the coherence of the Alaska Coastal Current was likely breaking up and significant amounts of the shelf water was likely moving offshore.

In addition to juvenile pink, chum, and sockeye salmon, 1 adult chum salmon was caught at the shelf break on the Cape Ommaney transect off S.E. Alaska (Figure 9), 3 adult sockeye salmon were caught at the shelf break on the Mitrofania Island transect off the Alaska Peninsula (Figure 12), 2 chinook salmon were caught on the shelf on the Cape Chiniak transect off Kodiak (Figure 4), and 4 chinook salmon were caught on the shelf on the Mitrofania Island transect (Figure 4).

Biological Data

Table 2 reports the detailed biological data collected from each salmon caught during the survey. Individual salmon were assigned a fish number which consisted of the cruise identifier (HS9735), followed hierarchically by tow number, species code, and sample number. For example, "HS9735-037-124-001" refers to tow number 37, species code "124" for chinook salmon, and the sample number "1" (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 included (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), and thermal mark code (if present). Brood year and release sites for thermal marked fish are described at the bottom of Table 2.

One of the chinook salmon caught on the Mitrofania Island transect carried the coded-wire tag (CWT) No. 31-26-04 identifying it as a Fort Richardson hatchery, brood year 1996 release, and was released as a smolt during spring 1997 (Table 2). The Fort Richardson hatchery is located at the head of Cook Inlet near Anchorage, Alaska.

Figure 13 shows the size distributions (fork length; mm) for chinook, chum, coho, pink and sockeye salmon, respectively.

Oceanographic Data

Table 3 reports the physical oceanographic data collected during the survey, including the station ID number, the Institute of Ocean Sciences' consecutive CTD filename, transect, sampling region, the date and time in UTC, the latitude ($^{\circ}$ N) and longitude ($^{\circ}$ W), sea surface temperature (SST; $^{\circ}$ C) and salinity (SSS; ppt) taken from the CTD files, sea surface salinity (ppt) determined from the sample bottles that were used to calibrate the CTD probe, nitrate, silicate and phosphate levels ($\mu\text{mol L}^{-1}$), chlorophyll a and phaeophytin levels ($\mu\text{mol L}^{-1}$), and the ratio of fluorescence before (Fo) and after (Fa) acidification. The CTD consecutive number consists of the Institute of Ocean Sciences' cruise designation (9735) followed by the consecutive number for each CTD cast on each survey.

Zooplankton Data

Table 4 report the zooplankton data by station collected by the Bongo tows, including the station ID number, transect, sampling region, latitude ($^{\circ}$ N) and longitude ($^{\circ}$ W), the date and time in PST, bottom depth (m), target depth (m), tow duration, wire angle (degrees), amount of wire deployed off the winch drum (m), and volume of ocean water sampled in cubic meters. 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.

DISCUSSION

The November-December 1997 cruise provided a third and final year of results which were fully consistent with the previous two years of fall surveys, with two exceptions. The 1995 and 1996 fall surveys occurred one month earlier (in October), and were restricted to the Gulf of Alaska region eastward from Kodiak Island. The 1997 survey not only provided full confirmation of earlier results, but it also allowed us to

extend the area where these findings were applicable all the way to the start of the Aleutians (2,900 km away from the Fraser River, and even farther from Washington and Oregon).

Both summer sampling by US scientists of the Auke Bay Laboratory in Juneau and the Fall/Winter work with the CCGS W.E. Ricker showed that the majority of juvenile salmon from British Columbia and Southeast Alaska move rapidly north-westward on a migration that is both very large scale and remarkably focused. Not one juvenile salmon was found past the shelf break in three years of fall sampling within the Gulf of Alaska. A similar situation was evident in the summer, although a few juvenile salmon were found slightly past the shelf break, possibly the result of being advected off the shelf in an eddy.

Almost all juvenile salmon were encountered off Kodiak Island and regions west in November and December of 1997, indicating that the tail end of the migration had already passed Southeast Alaska and was moving past the region around Kodiak Island in mid-November. For pink, chum and sockeye salmon, there appears to be strong evolutionary pressure to migrate using the shelf and shelf-break currents rather than the currents farther offshore, although it is not yet fully clear what the reason is. It is puzzling that all of the pink, chum, and sockeye salmon do not reoccupy the shelf environment until they are sexually mature and return to spawn. This interesting dichotomy in the life history warrants further investigation.

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	Transect	Region	Date	Time	Latitude (°N)	Longitude (°W)	Heading (°T)	Bottom Depth (m)	CK	CM	CM	CO	CO	PK	PK	SE	SE	Juv	ad.
HS973501	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	08:32	55.987	134.615	271	195	0	0	0	0	0	0	0	0	0	0	0
HS973502	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	10:28	55.992	134.758	284	196	0	0	0	0	0	0	0	0	0	0	0
HS973503	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	12:34	56.002	134.878	293	205	0	0	0	0	0	0	0	0	0	0	0
HS973504	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	14:27	56.032	135.002	270	236	0	0	0	0	0	0	0	0	0	0	0
HS973505	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	16:38	56.018	135.152	261	278	0	0	0	0	0	0	0	0	0	0	0
HS973506	CAPE OMMANEY	S.E. ALASKA	05-Nov-97	18:50	56.002	135.337	261	426	0	0	0	0	0	0	0	0	0	0	0
HS973507	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	07:36	55.990	136.155	093	2,606	0	0	0	0	0	0	0	0	0	0	0
HS973508	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	09:00	55.982	136.040	090	2,600	0	0	0	0	0	0	0	0	0	0	0
HS973509	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	10:04	55.983	135.917	083	2,408	0	0	0	0	0	0	0	0	0	0	0
HS973510	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	11:32	55.988	135.837	085	2,300	0	0	1	0	0	0	0	0	0	0	0
HS973511	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	14:00	56.013	135.662	084	1,222	0	0	0	0	0	0	0	0	0	0	0
HS973512	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	16:15	56.037	135.470	081	500	0	0	0	0	0	0	0	0	0	0	0
HS973513	CAPE OMMANEY	S.E. ALASKA	06-Nov-97	17:52	56.055	135.320	093	267	0	0	0	0	0	0	0	0	0	0	0
HS973514	CAPE CROSS	S.E. ALASKA	07-Nov-97	09:18	57.677	137.480	057	2,001	0	0	0	0	0	0	0	0	0	0	0
HS973515	CAPE CROSS	S.E. ALASKA	07-Nov-97	10:50	57.722	137.392	044	1,924	0	0	0	0	0	0	0	0	0	0	0
HS973516	CAPE CROSS	S.E. ALASKA	07-Nov-97	12:51	57.783	137.290	067	595	0	0	0	0	0	0	0	0	0	0	0
HS973517	CAPE CROSS	S.E. ALASKA	07-Nov-97	14:57	57.832	137.022	075	486	0	0	0	0	0	0	0	0	0	0	0
HS973518	CAPE CROSS	S.E. ALASKA	07-Nov-97	16:52	57.903	136.865	046	449	0	0	0	0	0	0	0	0	0	0	0
HS973519	CAPE CROSS	S.E. ALASKA	07-Nov-97	18:26	57.945	136.770	061	270	0	0	0	0	0	0	0	5	0	0	0
HS973520	CAPE CROSS	S.E. ALASKA	08-Nov-97	09:02	57.237	139.168	300	3,320	0	0	0	0	0	0	0	0	0	0	0
HS973521	OFFSHORE	OFFSHORE	10-Nov-97	09:44	56.235	139.748	332	3,418	0	0	0	0	0	0	0	0	0	0	0
HS973522	OFFSHORE	OFFSHORE	10-Nov-97	15:30	56.415	140.707	288	3,615	0	0	0	0	0	0	0	0	0	0	0
HS973523	OFFSHORE	OFFSHORE	10-Nov-97	18:37	56.545	141.413	317	3,585	0	0	0	0	0	0	0	0	0	0	0
HS973524	OFFSHORE	OFFSHORE	11-Nov-97	09:43	56.725	144.150	311	3,832	0	0	0	0	0	0	0	0	0	0	0
HS973525	OFFSHORE	OFFSHORE	11-Nov-97	14:47	56.802	145.077	016	3,953	0	0	0	0	0	0	0	0	0	0	0
HS973526	OFFSHORE	OFFSHORE	11-Nov-97	18:35	56.798	145.843	334	4,023	0	0	0	0	0	0	0	0	0	0	0
HS973527	CAPE CHINIAK	KODIAK ISLAND	12-Nov-97	07:30	56.412	148.043	310	4,091	0	0	0	0	0	0	0	0	0	0	0
HS973528	CAPE CHINIAK	KODIAK ISLAND	12-Nov-97	10:09	56.498	148.303	314	4,171	0	0	0	0	0	0	0	0	0	0	0
HS973529	CAPE CHINIAK	KODIAK ISLAND	12-Nov-97	14:05	56.580	148.590	308	4,210	0	0	0	0	0	0	0	0	0	0	0
HS973530	CAPE CHINIAK	KODIAK ISLAND	12-Nov-97	16:36	56.640	148.808	300	4,408	0	0	0	0	0	0	0	0	0	0	0
HS973531	CAPE CHINIAK	KODIAK ISLAND	12-Nov-97	18:38	56.738	149.130	327	4,131	0	0	0	0	0	0	0	0	0	0	0
HS973532	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	07:56	57.222	150.915	289	274	0	47	0	6	0	221	0	33	0	0	0
HS973533	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	09:47	57.262	151.057	290	164	0	2	0	0	0	7	0	0	0	0	0
HS973534	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	11:18	57.277	151.165	188	175	0	56	0	0	0	40	0	31	0	0	0
HS973535	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	13:35	57.313	151.295	168	175	0	1	0	0	0	40	0	43	0	0	0
HS973536	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	15:43	57.338	151.418	161	197	0	61	0	0	0	55	0	0	0	0	0
HS973537	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	18:26	57.372	151.550	160	190	2	0	0	0	0	24	0	3	0	0	0
HS973538	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	07:08	57.162	150.730	156	519	0	0	4	0	0	0	0	0	0	0	0

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	Transect	Region ..	Date	Time PST	Latitude (°N)	Longitude (°W)	Heading (°T)	Bottom Depth (m)	CK all	CM juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HS973544	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	18:36	56.715	149.108	132	4,131	0	0	0	0	0	0	0
HS973546	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	11:30	55.578	157.128	158	133	0	3	0	0	37	0	5
HS973547	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	13:00	55.525	157.068	163	139	0	1	0	0	16	0	0
HS973548	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	14:48	55.427	156.998	164	134	0	0	0	0	7	0	0
HS973549	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	16:40	55.343	156.912	181	134	1	21	0	0	5	0	1
HS973550	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	17:50	55.260	156.867	165	149	3	1	0	0	1	0	0
HS973551	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	19:08	55.188	156.812	151	136	0	0	0	0	1	0	0
HS973552	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	08:45	54.692	156.442	351	2,675	0	0	0	0	0	0	0
HS973553	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	16:20	54.809	156.435	300	2,015	0	0	0	0	0	0	0
HS973554	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	17:35	54.860	156.502	021	1,524	0	0	0	0	0	0	0
HS973555	MITROFANIA ISLAND	ALASKA PENINSULA	21-Nov-97	09:11	54.952	156.600	016	1,142	0	0	0	0	0	0	0
HS973556	MITROFANIA ISLAND	ALASKA PENINSULA	21-Nov-97	11:04	55.040	156.653	037	971	0	2	0	0	1	0	0
HS973557	MITROFANIA ISLAND	ALASKA PENINSULA	21-Nov-97	13:10	55.106	156.752	039	217	0	76	0	0	18	0	2
HS973558	SHUMAGIN ISLANDS	ALASKA PENINSULA	23-Nov-97	14:36	55.295	158.830	134	181	0	0	0	0	0	0	0
HS973559	SHUMAGIN ISLANDS	ALASKA PENINSULA	23-Nov-97	17:51	55.120	158.517	137	205	0	0	0	0	0	0	0
HS973560	SHUMAGIN ISLANDS	ALASKA PENINSULA	23-Nov-97	20:22	54.967	158.217	125	149	0	2	0	0	2	0	0
HS973561	SANAK BANK	ALASKA PENINSULA	01-Dec-97	09:57	54.403	161.895	135	72	0	13	0	0	30	0	8
HS973562	SANAK BANK	ALASKA PENINSULA	01-Dec-97	11:50	54.310	161.728	122	102	0	6	0	0	26	0	9
HS973563	SANAK BANK	ALASKA PENINSULA	01-Dec-97	14:18	54.190	161.483	135	183	0	34	0	0	21	0	1
HS973564	SANAK BANK	ALASKA PENINSULA	01-Dec-97	16:07	54.095	161.247	121	994	0	0	0	0	1	0	0
HS973565	SANAK BANK	ALASKA PENINSULA	01-Dec-97	17:15	54.037	161.128	130	1,951	0	4	0	0	5	0	1
HS973566	SANAK BANK	ALASKA PENINSULA	01-Dec-97	18:27	53.968	161.035	126	2,503	0	0	0	0	0	0	0
HS973567	SANAK BANK	ALASKA PENINSULA	01-Dec-97	19:34	53.923	160.930	125	2,485	0	0	0	0	1	0	0
HS973568	CAPE SPENCER	S.E. ALASKA	07-Dec-97	13:15	58.157	138.070	081	230	0	0	0	0	4	0	0
HS973569	CAPE SPENCER	S.E. ALASKA	07-Dec-97	15:11	58.153	137.758	087	210	0	0	0	0	0	0	0
HS973570	CAPE SPENCER	S.E. ALASKA	07-Dec-97	16:40	58.150	137.492	090	155	0	0	0	0	0	0	0
Totals:															
Overall total: 1,081															

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-037-124-001	CHINOOK	943	N/A	M	N/A	N/A		
HS9735-037-124-002	CHINOOK	802	N/A	F	N/A	N/A		
HS9735-049-124-001	CHINOOK	286	302	F	1.43	72.24		
HS9735-050-124-001	CHINOOK	291	327	M	8.22	77.15	31-26-04	
HS9735-050-124-002	CHINOOK	265	241	M	3.68	75.26		
HS9735-050-124-003	CHINOOK	281	297	F	9.24	73.83		
HS9735-010-112-001	CHUM	675	1316	F	N/A	N/A		
HS9735-032-112-001	CHUM	270	277	M	N/A	N/A		
HS9735-032-112-002	CHUM	255	178	M	N/A	N/A		G96-CHUM
HS9735-032-112-003	CHUM	248	163	M	N/A	N/A		
HS9735-032-112-004	CHUM	236	144	M	N/A	N/A		
HS9735-032-112-005	CHUM	264	199	M	N/A	N/A		WHN-PC96LATE-CHUM
HS9735-032-112-006	CHUM	247	161	M	N/A	N/A		WHN96LATE-CHUM
HS9735-032-112-007	CHUM	278	242	M	N/A	N/A		
HS9735-032-112-008	CHUM	247	170	M	N/A	N/A		
HS9735-032-112-009	CHUM	279	236	M	N/A	N/A		
HS9735-032-112-010	CHUM	283	254	M	N/A	N/A		
HS9735-032-112-011	CHUM	246	168	F	N/A	N/A		WHN96LATE-CHUM
HS9735-032-112-012	CHUM	247	160	F	N/A	N/A		HF96-CHUM
HS9735-032-112-013	CHUM	260	197	F	N/A	N/A		
HS9735-032-112-014	CHUM	260	221	F	N/A	N/A		
HS9735-032-112-015	CHUM	230	134	F	N/A	N/A		G96-CHUM
HS9735-032-112-016	CHUM	236	141	F	N/A	N/A		
HS9735-032-112-017	CHUM	245	147	F	N/A	N/A		
HS9735-032-112-018	CHUM	260	198	F	N/A	N/A		
HS9735-032-112-019	CHUM	239	138	M	N/A	N/A		WHN96LATE-CHUM
HS9735-032-112-020	CHUM	254	180	M	N/A	N/A		
HS9735-032-112-021	CHUM	247	165	M	N/A	N/A		G96-CHUM
HS9735-032-112-022	CHUM	223	128	M	N/A	N/A		
HS9735-032-112-023	CHUM	257	178	F	N/A	N/A		
HS9735-032-112-024	CHUM	280	262	M	N/A	N/A		
HS9735-032-112-025	CHUM	283	290	M	N/A	N/A		
HS9735-032-112-026	CHUM	210	100	M	N/A	N/A		HF96-CHUM
HS9735-032-112-027	CHUM	272	233	M	N/A	N/A		
HS9735-032-112-028	CHUM	250	179	M	N/A	N/A		WHN96EARLY-CHUM
HS9735-032-112-029	CHUM	259	182	F	N/A	N/A		
HS9735-032-112-030	CHUM	237	147	M	N/A	N/A		
HS9735-032-112-031	CHUM	228	152	F	N/A	N/A		
HS9735-032-112-032	CHUM	241	175	F	N/A	N/A		
HS9735-032-112-033	CHUM	234	153	M	N/A	N/A		
HS9735-032-112-034	CHUM	265	214	F	N/A	N/A		
HS9735-032-112-035	CHUM	228	143	F	N/A	N/A		
HS9735-032-112-036	CHUM	232	133	M	N/A	N/A		
HS9735-032-112-037	CHUM	238	156	M	N/A	N/A		
HS9735-032-112-038	CHUM	238	147	M	N/A	N/A		
HS9735-032-112-039	CHUM	201	99	M	N/A	N/A		
HS9735-032-112-040	CHUM	233	151	M	N/A	N/A		
HS9735-032-112-041	CHUM	232	139	F	N/A	N/A		
HS9735-032-112-042	CHUM	240	171	F	N/A	N/A		
HS9735-032-112-043	CHUM	237	143	M	N/A	N/A		HF96-CHUM
HS9735-032-112-044	CHUM	257	211	F	N/A	N/A		
HS9735-032-112-045	CHUM	231	145	F	N/A	N/A		
HS9735-032-112-046	CHUM	265	221	F	N/A	N/A		
HS9735-032-112-047	CHUM	185	68	M	N/A	N/A		
HS9735-033-112-001	CHUM	268	222	M	N/A	N/A		
HS9735-033-112-002	CHUM	263	225	M	N/A	N/A		
HS9735-034-112-001	CHUM	228	122	F	N/A	N/A		
HS9735-034-112-002	CHUM	268	220	F	N/A	N/A		WHN96LATE-CHUM
HS9735-034-112-003	CHUM	250	169	F	N/A	N/A		WHN-PC96LATE-CHUM
HS9735-034-112-004	CHUM	245	178	F	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-034-112-005	CHUM	233	134	M	N/A	N/A		
HS9735-034-112-006	CHUM	226	114	F	N/A	N/A		
HS9735-034-112-007	CHUM	268	242	F	N/A	N/A		
HS9735-034-112-008	CHUM	242	152	F	N/A	N/A		
HS9735-034-112-009	CHUM	268	241	F	N/A	N/A		
HS9735-034-112-010	CHUM	231	134	F	N/A	N/A		
HS9735-034-112-011	CHUM	267	241	M	N/A	N/A		
HS9735-034-112-012	CHUM	253	173	F	N/A	N/A		G96-CHUM
HS9735-034-112-013	CHUM	251	176	F	N/A	N/A		G96-CHUM
HS9735-034-112-014	CHUM	265	230	M	N/A	N/A		
HS9735-034-112-015	CHUM	247	162	M	N/A	N/A		
HS9735-034-112-016	CHUM	284	268	M	N/A	N/A		
HS9735-034-112-017	CHUM	247	182	F	N/A	N/A		
HS9735-034-112-018	CHUM	250	175	M	N/A	N/A		WHN96LATE-CHUM
HS9735-034-112-019	CHUM	268	210	F	N/A	N/A		G96-CHUM
HS9735-034-112-020	CHUM	241	156	F	N/A	N/A		
HS9735-034-112-021	CHUM	255	180	F	N/A	N/A		
HS9735-034-112-022	CHUM	246	165	F	N/A	N/A		
HS9735-034-112-023	CHUM	257	193	M	N/A	N/A		WHN96EARLY-CHUM
HS9735-034-112-024	CHUM	229	122	F	N/A	N/A		AFK96-CHUM
HS9735-034-112-025	CHUM	225	132	M	N/A	N/A		WHN96EARLY-CHUM
HS9735-034-112-026	CHUM	262	195	M	N/A	N/A		
HS9735-034-112-027	CHUM	266	217	M	N/A	N/A		WHN96LATE-CHUM
HS9735-034-112-028	CHUM	251	180	F	N/A	N/A		G96-CHUM
HS9735-034-112-029	CHUM	243	164	M	N/A	N/A		
HS9735-034-112-030	CHUM	233	159	M	N/A	N/A		
HS9735-034-112-031	CHUM	240	172	M	N/A	N/A		HF96-CHUM
HS9735-034-112-032	CHUM	225	128	M	N/A	N/A		HF96-CHUM
HS9735-034-112-033	CHUM	233	153	M	N/A	N/A		
HS9735-034-112-034	CHUM	231	144	M	N/A	N/A		HF96-CHUM
HS9735-034-112-035	CHUM	226	140	F	N/A	N/A		
HS9735-034-112-036	CHUM	231	147	F	N/A	N/A		
HS9735-034-112-037	CHUM	232	141	F	N/A	N/A		
HS9735-034-112-038	CHUM	235	140	M	N/A	N/A		WHN96LATE-CHUM
HS9735-034-112-039	CHUM	233	147	M	N/A	N/A		
HS9735-034-112-040	CHUM	219	121	M	N/A	N/A		G96-CHUM
HS9735-034-112-041	CHUM	230	147	M	N/A	N/A		
HS9735-034-112-042	CHUM	242	181	F	N/A	N/A		
HS9735-034-112-043	CHUM	215	129	F	N/A	N/A		
HS9735-034-112-044	CHUM	236	161	F	N/A	N/A		
HS9735-034-112-045	CHUM	247	189	M	N/A	N/A		
HS9735-034-112-046	CHUM	234	172	F	N/A	N/A		G96-CHUM
HS9735-034-112-047	CHUM	205	97	M	N/A	N/A		G96-CHUM
HS9735-034-112-048	CHUM	240	170	M	N/A	N/A		
HS9735-034-112-049	CHUM	219	124	M	N/A	N/A		HF96-CHUM
HS9735-034-112-050	CHUM	239	159	M	N/A	N/A		
HS9735-034-112-051	CHUM	263	227	M	N/A	N/A		
HS9735-034-112-052	CHUM	245	173	M	N/A	N/A		G96-CHUM
HS9735-034-112-053	CHUM	228	133	M	N/A	N/A		G96-CHUM
HS9735-034-112-054	CHUM	224	125	M	N/A	N/A		
HS9735-034-112-055	CHUM	209	91	M	N/A	N/A		
HS9735-034-112-056	CHUM	260	217	F	N/A	N/A		
HS9735-035-112-001	CHUM	230	131	M	N/A	N/A		
HS9735-036-112-001	CHUM	275	233	F	N/A	N/A		G96-CHUM
HS9735-036-112-002	CHUM	245	173	M	N/A	N/A		
HS9735-036-112-003	CHUM	245	144	F	N/A	N/A		G96-CHUM
HS9735-036-112-004	CHUM	260	187	M	N/A	N/A		
HS9735-036-112-005	CHUM	243	156	M	N/A	N/A		
HS9735-036-112-006	CHUM	268	213	F	N/A	N/A		G96-CHUM
HS9735-036-112-007	CHUM	258	190	M	N/A	N/A		
HS9735-036-112-008	CHUM	260	216	F	N/A	N/A		HF96-CHUM

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-036-112-009	CHUM	237	142	F	N/A	N/A		
HS9735-036-112-010	CHUM	255	172	F	N/A	N/A		
HS9735-036-112-011	CHUM	253	176	M	N/A	N/A		HF96-CHUM
HS9735-036-112-012	CHUM	233	134	F	N/A	N/A		HF96-CHUM
HS9735-036-112-013	CHUM	265	213	F	N/A	N/A		
HS9735-036-112-014	CHUM	257	203	F	N/A	N/A		
HS9735-036-112-015	CHUM	265	216	F	N/A	N/A		
HS9735-036-112-016	CHUM	233	142	F	N/A	N/A		
HS9735-036-112-017	CHUM	245	167	F	N/A	N/A		HF96-CHUM
HS9735-036-112-018	CHUM	265	197	M	N/A	N/A		
HS9735-036-112-019	CHUM	253	196	M	N/A	N/A		
HS9735-036-112-020	CHUM	215	103	M	N/A	N/A		
HS9735-036-112-021	CHUM	238	148	F	N/A	N/A		
HS9735-036-112-022	CHUM	240	166	M	N/A	N/A		
HS9735-036-112-023	CHUM	242	164	F	N/A	N/A		
HS9735-036-112-024	CHUM	215	105	M	N/A	N/A		
HS9735-036-112-025	CHUM	227	127	M	N/A	N/A		HF96-CHUM
HS9735-036-112-026	CHUM	266	210	M	N/A	N/A		
HS9735-036-112-027	CHUM	245	158	F	N/A	N/A		HF96-CHUM
HS9735-036-112-028	CHUM	250	178	M	N/A	N/A		
HS9735-036-112-029	CHUM	242	152	M	N/A	N/A		G96-CHUM
HS9735-036-112-030	CHUM	264	208	F	N/A	N/A		
HS9735-036-112-031	CHUM	215	129	M	N/A	N/A		G96-CHUM
HS9735-036-112-032	CHUM	224	123	M	N/A	N/A		
HS9735-036-112-033	CHUM	243	194	M	N/A	N/A		
HS9735-036-112-034	CHUM	269	245	F	N/A	N/A		WHN96LATE-CHUM
HS9735-036-112-035	CHUM	212	131	M	N/A	N/A		G96-CHUM
HS9735-036-112-036	CHUM	254	200	M	N/A	N/A		
HS9735-036-112-037	CHUM	253	213	M	N/A	N/A		WHN96LATE-CHUM
HS9735-036-112-038	CHUM	258	236	F	N/A	N/A		
HS9735-036-112-039	CHUM	251	205	F	N/A	N/A		
HS9735-036-112-040	CHUM	235	168	F	N/A	N/A		
HS9735-036-112-041	CHUM	235	174	M	N/A	N/A		
HS9735-036-112-042	CHUM	241	169	M	N/A	N/A		
HS9735-036-112-043	CHUM	203	113	F	N/A	N/A		
HS9735-036-112-044	CHUM	210	111	F	N/A	N/A		WHN96LATE-CHUM
HS9735-036-112-045	CHUM	246	185	F	N/A	N/A		
HS9735-036-112-046	CHUM	235	165	F	N/A	N/A		WHN96LATE-CHUM
HS9735-036-112-047	CHUM	246	178	M	N/A	N/A		
HS9735-036-112-048	CHUM	222	137	M	N/A	N/A		
HS9735-036-112-049	CHUM	247	181	F	N/A	N/A		
HS9735-036-112-050	CHUM	234	160	M	N/A	N/A		G96-CHUM
HS9735-036-112-051	CHUM	239	159	M	N/A	N/A		WHN-PC96EARLY-CHUM
HS9735-036-112-052	CHUM	247	184	M	N/A	N/A		
HS9735-036-112-053	CHUM	256	228	M	N/A	N/A		
HS9735-036-112-054	CHUM	234	159	F	N/A	N/A		G96-CHUM
HS9735-036-112-055	CHUM	256	218	M	N/A	N/A		WHN96LATE-CHUM
HS9735-036-112-056	CHUM	223	143	M	N/A	N/A		
HS9735-036-112-057	CHUM	249	187	F	N/A	N/A		WHN96EARLY-CHUM
HS9735-036-112-058	CHUM	251	193	M	N/A	N/A		
HS9735-036-112-059	CHUM	205	105	F	N/A	N/A		
HS9735-036-112-060	CHUM	242	167	F	N/A	N/A		G96-CHUM
HS9735-036-112-061	CHUM	223	133	M	N/A	N/A		WHN96LATE-CHUM
HS9735-046-112-001	CHUM	240	152	M	1.33	76.42		
HS9735-046-112-002	CHUM	250	170	M	1.33	76.44		WHN96LATE-CHUM
HS9735-046-112-003	CHUM	193	68	M	0.32	80.82		
HS9735-047-112-001	CHUM	242	154	M	3.17	76.68		
HS9735-049-112-001	CHUM	228	135	M	2.56	76.03		
HS9735-049-112-002	CHUM	240	139	M	1.88	76.92		
HS9735-049-112-003	CHUM	218	106	F	1.94	79.54		WHN96LATE-CHUM
HS9735-049-112-004	CHUM	237	143	M	2.74	78.16		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-049-112-005	CHUM	230	136	F	1.92	76.66		HF96-CHUM
HS9735-049-112-006	CHUM	253	180	F	3.64	75.69		
HS9735-049-112-007	CHUM	239	155	F	3.41	77.61		
HS9735-049-112-008	CHUM	217	102	F	1.26	77.48		
HS9735-049-112-009	CHUM	232	139	F	2.48	75.10		HF96-CHUM
HS9735-049-112-010	CHUM	221	119	M	1.77	77.07		
HS9735-049-112-011	CHUM	221	113	F	2.71	78.12		
HS9735-049-112-012	CHUM	241	158	F	3.23	75.12		
HS9735-049-112-013	CHUM	237	144	M	2.16	77.86		HF96-CHUM
HS9735-049-112-014	CHUM	252	209	M	11.54	76.75		
HS9735-049-112-015	CHUM	233	139	F	2.70	75.31		
HS9735-049-112-016	CHUM	220	115	F	1.78	77.57		WHN-PC96LATE-CHUM
HS9735-049-112-017	CHUM	225	121	F	1.62	78.95		
HS9735-049-112-018	CHUM	215	113	M	1.87	79.30		
HS9735-049-112-019	CHUM	240	175	F	2.82	77.56		
HS9735-049-112-020	CHUM	220	111	F	1.53	78.00		G96-CHUM
HS9735-049-112-021	CHUM	230	124	F	0.98	77.80		
HS9735-050-112-001	CHUM	241	167	M	4.44	75.73		
HS9735-056-112-001	CHUM	260	200	M	0.85	74.29		
HS9735-056-112-002	CHUM	231	133	M	0.58	75.49		WHN96LATE-CHUM
HS9735-057-112-001	CHUM	262	204	M	1.33	73.93		
HS9735-057-112-002	CHUM	262	179	F	1.41	74.84		WHN-PC96LATE-CHUM
HS9735-057-112-003	CHUM	260	193	M	0.91	72.90		HF96-CHUM
HS9735-057-112-004	CHUM	234	137	M	0.83	75.36		
HS9735-057-112-005	CHUM	260	219	M	0.59	75.85		HF96-CHUM
HS9735-057-112-006	CHUM	248	169	M	0.41	75.85		
HS9735-057-112-007	CHUM	274	250	M	2.52	72.36		HF96-CHUM
HS9735-057-112-008	CHUM	243	174	M	1.39	75.04		
HS9735-057-112-009	CHUM	223	135	F	0.44	77.59		
HS9735-057-112-010	CHUM	246	156	M	0.96	75.38		
HS9735-057-112-011	CHUM	250	194	M	1.08	73.90		
HS9735-057-112-012	CHUM	243	170	F	2.18	74.63		
HS9735-057-112-013	CHUM	259	187	F	1.84	74.94		
HS9735-057-112-014	CHUM	250	191	M	2.05	74.00		
HS9735-057-112-015	CHUM	240	157	M	1.76	75.28		
HS9735-057-112-016	CHUM	259	210	M	2.10	73.67		WHN96LATE-CHUM
HS9735-057-112-017	CHUM	245	179	F	0.71	75.03		
HS9735-057-112-018	CHUM	252	189	M	1.29	76.11		
HS9735-057-112-019	CHUM	253	180	F	2.23	74.07		
HS9735-057-112-020	CHUM	242	166	M	0.92	76.63		
HS9735-057-112-021	CHUM	252	184	M	0.72	76.69		
HS9735-057-112-022	CHUM	237	154	M	1.30	74.37		HF96-CHUM
HS9735-057-112-023	CHUM	244	160	F	0.94	77.76		
HS9735-057-112-024	CHUM	235	149	M	1.09	75.56		HF96-CHUM
HS9735-057-112-025	CHUM	236	145	M	1.39	74.15		G96-CHUM
HS9735-057-112-026	CHUM	269	228	M	2.49	72.94		
HS9735-057-112-027	CHUM	244	177	F	0.82	74.15		HF96-CHUM
HS9735-057-112-028	CHUM	252	200	F	2.51	73.77		
HS9735-057-112-029	CHUM	251	190	M	1.54	74.05		HF96-CHUM
HS9735-057-112-030	CHUM	258	205	F	1.52	72.46		
HS9735-057-112-031	CHUM	258	182	M	1.44	73.06		G96-CHUM
HS9735-057-112-032	CHUM	252	191	F	0.82	75.41		WHN-PC96LATE-CHUM
HS9735-057-112-033	CHUM	258	204	F	1.62	74.43		HF96-CHUM
HS9735-057-112-034	CHUM	248	166	M	1.10	73.93		
HS9735-057-112-035	CHUM	251	202	M	2.38	73.35		
HS9735-057-112-036	CHUM	235	151	M	0.52	75.68		
HS9735-057-112-037	CHUM	243	182	F	0.35	76.07		WHN96LATE-CHUM
HS9735-057-112-038	CHUM	237	153	M	0.76	72.94		WHN96LATE-CHUM
HS9735-057-112-039	CHUM	238	147	M	1.82	76.79		
HS9735-057-112-040	CHUM	250	166	F	1.32	76.38		HF96-CHUM
HS9735-057-112-041	CHUM	268	216	F	1.98	73.48		G96-CHUM

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-057-112-042	CHUM	243	169	M	1.09	75.71		WHN96LATE-CHUM
HS9735-057-112-043	CHUM	246	168	F	0.73	74.68		HF96-CHUM
HS9735-057-112-044	CHUM	255	193	F	1.26	74.92		WHN96LATE-CHUM
HS9735-057-112-045	CHUM	246	166	M	1.04	74.07		
HS9735-057-112-046	CHUM	268	210	F	0.72	74.89		
HS9735-057-112-047	CHUM	267	223	F	2.49	73.68		WHN96LATE-CHUM
HS9735-057-112-048	CHUM	252	185	M	1.49	72.68		
HS9735-057-112-049	CHUM	263	194	F	0.81	74.98		
HS9735-057-112-050	CHUM	247	188	M	1.85	71.75		HF96-CHUM
HS9735-057-112-051	CHUM	238	151	M	1.06	77.52		HF96-CHUM
HS9735-057-112-052	CHUM	258	192	F	0.90	74.57		
HS9735-057-112-053	CHUM	240	168	M	1.63	75.56		
HS9735-057-112-054	CHUM	235	161	F	2.00	76.14		
HS9735-057-112-055	CHUM	271	238	F	1.00	71.72		
HS9735-057-112-056	CHUM	249	166	F	1.56	77.83		
HS9735-057-112-057	CHUM	245	159	M	1.15	74.67		
HS9735-057-112-058	CHUM	240	156	M	2.19	75.10		
HS9735-057-112-059	CHUM	227	134	M	1.11	75.75		
HS9735-057-112-060	CHUM	225	124	M	1.25	75.96		
HS9735-057-112-061	CHUM	240	155	F	N/A	N/A		
HS9735-057-112-062	CHUM	225	130	M	1.55	76.74		
HS9735-057-112-063	CHUM	218	106	F	1.15	77.99		
HS9735-057-112-064	CHUM	239	144	M	1.29	76.83		AFK96-CHUM
HS9735-057-112-065	CHUM	225	131	F	0.16	76.14		
HS9735-057-112-066	CHUM	216	112	F	0.57	76.63		AFK96-CHUM
HS9735-057-112-067	CHUM	228	138	F	0.62	75.29		
HS9735-057-112-068	CHUM	222	105	F	0.49	79.61		HF96-CHUM
HS9735-057-112-069	CHUM	232	122	M	1.45	74.80		
HS9735-057-112-070	CHUM	230	139	M	0.65	74.77		WHN96LATE-CHUM
HS9735-057-112-071	CHUM	230	124	M	0.86	78.58		
HS9735-057-112-072	CHUM	207	89	F	0.37	79.32		
HS9735-057-112-073	CHUM	207	96	F	0.61	77.38		
HS9735-057-112-074	CHUM	263	201	F	N/A	N/A		
HS9735-057-112-075	CHUM	250	165	M	N/A	N/A		
HS9735-057-112-076	CHUM	217	111	M	N/A	N/A		
HS9735-060-112-001	CHUM	268	203	F	0.71	74.38		WHN-PC96LATE-CHUM
HS9735-060-112-002	CHUM	232	141	F	0.32	75.09		
HS9735-061-112-001	CHUM	245	171	M	0.00	74.89		
HS9735-061-112-002	CHUM	264	189	M	0.00	74.91		WHN96LATE-CHUM
HS9735-061-112-003	CHUM	247	144	M	0.15	75.02		
HS9735-061-112-004	CHUM	261	175	M	0.00	74.67		
HS9735-061-112-005	CHUM	230	116	F	0.00	75.16		
HS9735-061-112-006	CHUM	252	149	F	0.00	74.78		
HS9735-061-112-007	CHUM	270	185	M	0.18	73.96		HF96-CHUM
HS9735-061-112-008	CHUM	232	130	M	0.00	77.06		
HS9735-061-112-009	CHUM	259	165	M	0.00	75.21		
HS9735-061-112-010	CHUM	244	163	F	0.00	72.35		
HS9735-061-112-011	CHUM	233	131	M	0.00	76.17		G96-CHUM
HS9735-061-112-012	CHUM	263	169	M	0.00	75.37		
HS9735-061-112-013	CHUM	267	209	M	0.00	73.11		
HS9735-062-112-001	CHUM	239	147	M	N/A	N/A		
HS9735-062-112-002	CHUM	245	157	M	N/A	N/A		G96-CHUM
HS9735-062-112-003	CHUM	257	181	F	N/A	N/A		G96-CHUM
HS9735-062-112-004	CHUM	250	174	M	N/A	N/A		WHN96LATE-CHUM
HS9735-062-112-005	CHUM	212	102	M	N/A	N/A		
HS9735-062-112-006	CHUM	234	142	M	N/A	N/A		
HS9735-063-112-001	CHUM	245	151	M	0.23	74.70		HF96-CHUM
HS9735-063-112-002	CHUM	234	129	M	0.54	76.86		
HS9735-063-112-003	CHUM	261	190	F	1.16	73.52		
HS9735-063-112-004	CHUM	271	208	F	0.63	74.88		HF96-CHUM
HS9735-063-112-005	CHUM	271	228	F	0.38	71.36		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-063-112-006	CHUM	246	162	M	0.05	74.72		
HS9735-063-112-007	CHUM	273	230	M	0.22	73.49		AFK96-CHUM
HS9735-063-112-008	CHUM	247	150	F	0.27	76.68		
HS9735-063-112-009	CHUM	261	183	F	0.50	74.11		WHN96LATE-CHUM
HS9735-063-112-010	CHUM	250	175	F	0.12	74.59		G96-CHUM
HS9735-063-112-011	CHUM	235	135	F	0.27	74.19		
HS9735-063-112-012	CHUM	269	204	F	0.72	72.44		G96-CHUM
HS9735-063-112-013	CHUM	258	186	F	0.19	73.63		
HS9735-063-112-014	CHUM	250	150	M	0.76	74.44		G96-CHUM
HS9735-063-112-015	CHUM	248	157	F	0.45	77.39		G96-CHUM
HS9735-063-112-016	CHUM	249	170	F	0.04	75.86		G96-CHUM
HS9735-063-112-017	CHUM	236	138	M	0.70	77.47		
HS9735-063-112-018	CHUM	243	151	M	0.05	76.26		
HS9735-063-112-019	CHUM	225	110	F	1.84	77.86		WHN96EARLY-CHUM
HS9735-063-112-020	CHUM	236	143	F	0.00	76.55		
HS9735-063-112-021	CHUM	255	177	M	0.88	74.81		
HS9735-063-112-022	CHUM	245	174	M	1.80	74.49		HF96-CHUM
HS9735-063-112-023	CHUM	260	201	F	1.20	72.76		G96-CHUM
HS9735-063-112-024	CHUM	268	210	M	0.97	72.47		
HS9735-063-112-025	CHUM	238	141	F	N/A	N/A		
HS9735-063-112-026	CHUM	248	159	M	0.86	74.88		HF96-CHUM
HS9735-063-112-027	CHUM	237	155	M	0.54	77.06		G96-CHUM
HS9735-063-112-028	CHUM	240	145	M	0.42	73.44		
HS9735-063-112-029	CHUM	249	161	F	0.67	75.46		G96-CHUM
HS9735-063-112-030	CHUM	243	151	M	0.22	75.05		
HS9735-063-112-031	CHUM	243	166	F	0.65	75.83		
HS9735-063-112-032	CHUM	247	172	M	1.16	75.94		G96-CHUM
HS9735-063-112-033	CHUM	249	163	F	0.60	75.34		WHN-PC96LATE-CHUM
HS9735-063-112-034	CHUM	280	239	F	1.51	74.39		
HS9735-065-112-001	CHUM	257	173	F	1.57	75.37		WHN96LATE-CHUM
HS9735-065-112-002	CHUM	257	190	M	1.04	74.00		
HS9735-065-112-003	CHUM	259	191	M	2.44	74.66		HF96-CHUM
HS9735-065-112-004	CHUM	269	218	M	1.56	74.39		WHN96LATE-CHUM
HS9735-032-115-001	COHO	321	357	M	N/A	N/A		
HS9735-032-115-002	COHO	305	323	F	N/A	N/A		
HS9735-032-115-003	COHO	313	374	F	N/A	N/A		
HS9735-032-115-004	COHO	281	267	F	N/A	N/A		
HS9735-032-115-005	COHO	340	456	M	N/A	N/A		
HS9735-032-115-006	COHO	316	346	M	N/A	N/A		
HS9735-038-115-001	COHO	386	733	F	0.00	72.90		
HS9735-038-115-002	COHO	367	613	M	0.00	71.90		
HS9735-038-115-003	COHO	390	721	F	0.00	69.82		
HS9735-038-115-004	COHO	340	455	M	0.00	73.91		
HS9735-045-115-001	COHO	351	498	M	0.00	73.46		
HS9735-045-115-002	COHO	390	694	M	0.00	75.10		
HS9735-045-115-003	COHO	368	594	M	0.00	71.91		
HS9735-045-115-004	COHO	326	421	M	0.00	73.51		
HS9735-045-115-005	COHO	374	610	M	0.00	73.37		
HS9735-045-115-006	COHO	360	562	F	0.00	74.83		
HS9735-045-115-007	COHO	369	512	F	0.00	75.37		
HS9735-045-115-008	COHO	375	634	M	0.00	72.75		
HS9735-045-115-009	COHO	348	516	M	0.00	72.16		
HS9735-045-115-010	COHO	371	588	F	0.00	75.52		
HS9735-045-115-011	COHO	356	539	F	0.00	75.80		
HS9735-045-115-012	COHO	355	506	F	0.00	73.77		G95-COHO
HS9735-045-115-013	COHO	340	470	M	0.00	75.27		
HS9735-045-115-014	COHO	352	486	M	0.00	74.94		
HS9735-045-115-015	COHO	362	570	M	0.00	77.22		
HS9735-045-115-016	COHO	332	391	M	0.00	76.65		
HS9735-045-115-017	COHO	342	491	F	0.07	73.68		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-019-108-001	PINK	236	132	N/A	4.05	77.58		
HS9735-019-108-002	PINK	297	271	N/A	8.00	76.91		
HS9735-019-108-003	PINK	261	170	N/A	4.05	76.23		
HS9735-019-108-004	PINK	218	115	N/A	5.58	76.81		
HS9735-019-108-005	PINK	225	117	N/A	4.17	75.72		
HS9735-032-108-001	PINK	235	115	F	3.29	76.74		
HS9735-032-108-002	PINK	245	140	F	0.00	73.88		
HS9735-032-108-003	PINK	250	148	F	0.00	76.36		
HS9735-032-108-004	PINK	268	162	M	0.20	77.10		
HS9735-032-108-005	PINK	255	151	M	0.00	77.32		
HS9735-032-108-006	PINK	297	254	M	0.00	76.54		
HS9735-032-108-007	PINK	251	153	M	0.43	74.78		
HS9735-032-108-008	PINK	258	158	M	1.66	75.61		
HS9735-032-108-009	PINK	242	123	M	0.35	76.92		
HS9735-032-108-010	PINK	240	133	F	0.45	75.10		
HS9735-032-108-011	PINK	268	197	M	0.00	77.32		SG96-PINK
HS9735-032-108-012	PINK	232	118	F	0.00	77.17		
HS9735-032-108-013	PINK	254	151	M	0.00	75.64		
HS9735-032-108-014	PINK	226	120	F	5.32	78.71		
HS9735-032-108-015	PINK	266	184	F	1.17	76.14		
HS9735-032-108-016	PINK	234	121	F	N/A	N/A		
HS9735-032-108-017	PINK	233	117	M	N/A	N/A		
HS9735-032-108-018	PINK	248	161	F	N/A	N/A		
HS9735-032-108-019	PINK	243	132	M	N/A	N/A		
HS9735-032-108-020	PINK	253	153	F	N/A	N/A		
HS9735-032-108-021	PINK	219	95	M	N/A	N/A		
HS9735-032-108-022	PINK	225	112	F	N/A	N/A		
HS9735-032-108-023	PINK	224	110	M	N/A	N/A		
HS9735-032-108-024	PINK	248	146	M	N/A	N/A		
HS9735-032-108-025	PINK	236	131	M	N/A	N/A		
HS9735-032-108-026	PINK	246	160	M	N/A	N/A		
HS9735-032-108-027	PINK	267	184	M	N/A	N/A		
HS9735-032-108-028	PINK	250	134	F	N/A	N/A		
HS9735-032-108-029	PINK	263	173	F	N/A	N/A		
HS9735-032-108-030	PINK	265	187	M	N/A	N/A		
HS9735-032-108-031	PINK	263	193	M	N/A	N/A		
HS9735-032-108-032	PINK	233	128	M	N/A	N/A		WHN96LATE-PINK
HS9735-032-108-033	PINK	259	180	M	N/A	N/A		
HS9735-032-108-034	PINK	229	127	M	N/A	N/A		
HS9735-032-108-035	PINK	229	119	F	N/A	N/A		
HS9735-032-108-036	PINK	238	146	F	N/A	N/A		
HS9735-032-108-037	PINK	216	106	F	N/A	N/A		
HS9735-032-108-038	PINK	253	194	F	N/A	N/A		
HS9735-032-108-039	PINK	270	196	F	N/A	N/A		SG96-PINK
HS9735-032-108-040	PINK	252	165	F	N/A	N/A		SG96-PINK
HS9735-032-108-041	PINK	239	155	F	N/A	N/A		
HS9735-032-108-042	PINK	246	148	F	N/A	N/A		
HS9735-032-108-043	PINK	248	157	M	N/A	N/A		
HS9735-032-108-044	PINK	225	114	F	N/A	N/A		
HS9735-032-108-045	PINK	234	134	M	N/A	N/A		
HS9735-032-108-046	PINK	235	133	F	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-047	PINK	235	129	F	N/A	N/A		
HS9735-032-108-048	PINK	255	163	M	N/A	N/A		
HS9735-032-108-049	PINK	225	130	F	N/A	N/A		
HS9735-032-108-050	PINK	249	150	M	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-051	PINK	249	161	M	N/A	N/A		
HS9735-032-108-052	PINK	242	151	M	N/A	N/A		
HS9735-032-108-053	PINK	244	148	M	N/A	N/A		WHN96EARLY-PINK
HS9735-032-108-054	PINK	232	155	M	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-055	PINK	261	171	F	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-032-108-056	PINK	252	150	M	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-057	PINK	250	173	M	N/A	N/A		SG96-PINK
HS9735-032-108-058	PINK	279	229	F	N/A	N/A		
HS9735-032-108-059	PINK	278	247	F	N/A	N/A		
HS9735-032-108-060	PINK	233	134	F	N/A	N/A		
HS9735-032-108-061	PINK	256	169	F	N/A	N/A		
HS9735-032-108-062	PINK	238	142	M	N/A	N/A		
HS9735-032-108-063	PINK	262	175	F	N/A	N/A		WHN96LATE-PINK
HS9735-032-108-064	PINK	249	168	M	N/A	N/A		
HS9735-032-108-065	PINK	255	172	F	N/A	N/A		SG96-PINK
HS9735-032-108-066	PINK	246	140	M	N/A	N/A		
HS9735-032-108-067	PINK	258	188	M	N/A	N/A		
HS9735-032-108-068	PINK	227	120	F	N/A	N/A		
HS9735-032-108-069	PINK	259	178	M	N/A	N/A		
HS9735-032-108-070	PINK	227	118	F	N/A	N/A		
HS9735-032-108-071	PINK	253	162	M	N/A	N/A		
HS9735-032-108-072	PINK	250	150	M	N/A	N/A		
HS9735-032-108-073	PINK	230	123	M	N/A	N/A		
HS9735-032-108-074	PINK	229	114	F	N/A	N/A		SG96-PINK
HS9735-032-108-075	PINK	246	160	M	N/A	N/A		CC96-PINK
HS9735-032-108-076	PINK	259	196	M	N/A	N/A		
HS9735-032-108-077	PINK	253	160	F	N/A	N/A		SG96-PINK
HS9735-032-108-078	PINK	269	207	F	N/A	N/A		
HS9735-032-108-079	PINK	310	323	M	N/A	N/A		
HS9735-032-108-080	PINK	247	145	F	N/A	N/A		SG96-PINK
HS9735-032-108-081	PINK	253	183	F	N/A	N/A		
HS9735-032-108-082	PINK	247	133	F	N/A	N/A		SG96-PINK
HS9735-032-108-083	PINK	233	131	F	N/A	N/A		SG96-PINK
HS9735-032-108-084	PINK	242	155	F	N/A	N/A		SG96-PINK
HS9735-032-108-085	PINK	289	269	M	N/A	N/A		
HS9735-032-108-086	PINK	249	145	M	N/A	N/A		WHN96LATE-PINK
HS9735-032-108-087	PINK	238	147	M	N/A	N/A		
HS9735-032-108-088	PINK	242	139	M	N/A	N/A		
HS9735-032-108-089	PINK	242	140	F	N/A	N/A		
HS9735-032-108-090	PINK	230	135	F	N/A	N/A		
HS9735-032-108-091	PINK	257	179	F	N/A	N/A		
HS9735-032-108-092	PINK	225	99	M	N/A	N/A		
HS9735-032-108-093	PINK	244	158	F	N/A	N/A		SG96-PINK
HS9735-032-108-094	PINK	233	128	M	N/A	N/A		CC96-PINK
HS9735-032-108-095	PINK	265	186	M	N/A	N/A		G96-PINK
HS9735-032-108-096	PINK	227	108	F	N/A	N/A		CC96-PINK
HS9735-032-108-097	PINK	274	228	F	N/A	N/A		
HS9735-032-108-098	PINK	250	160	M	N/A	N/A		
HS9735-032-108-099	PINK	244	157	F	N/A	N/A		
HS9735-032-108-100	PINK	232	129	M	N/A	N/A		
HS9735-032-108-101	PINK	243	139	F	N/A	N/A		
HS9735-032-108-102	PINK	244	148	F	N/A	N/A		
HS9735-032-108-103	PINK	245	163	M	N/A	N/A		
HS9735-032-108-104	PINK	250	146	M	N/A	N/A		
HS9735-032-108-105	PINK	251	158	F	N/A	N/A		
HS9735-032-108-106	PINK	294	279	M	N/A	N/A		
HS9735-032-108-107	PINK	288	270	M	N/A	N/A		SG96-PINK
HS9735-032-108-108	PINK	217	113	F	N/A	N/A		
HS9735-032-108-109	PINK	240	135	M	N/A	N/A		
HS9735-032-108-110	PINK	256	196	F	N/A	N/A		
HS9735-032-108-111	PINK	250	158	F	N/A	N/A		WHN96LATE-PINK
HS9735-032-108-112	PINK	240	133	M	N/A	N/A		
HS9735-032-108-113	PINK	261	172	M	N/A	N/A		SG96-PINK
HS9735-032-108-114	PINK	227	139	F	N/A	N/A		
HS9735-032-108-115	PINK	237	161	M	N/A	N/A		
HS9735-032-108-116	PINK	239	143	M	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-032-108-117	PINK	247	169	F	N/A	N/A		
HS9735-032-108-118	PINK	242	134	M	N/A	N/A		
HS9735-032-108-119	PINK	248	163	M	N/A	N/A		
HS9735-032-108-120	PINK	251	182	M	N/A	N/A		
HS9735-032-108-121	PINK	249	163	M	N/A	N/A		
HS9735-032-108-122	PINK	250	165	F	N/A	N/A		SG96-PINK
HS9735-032-108-123	PINK	245	164	F	N/A	N/A		
HS9735-032-108-124	PINK	257	178	M	N/A	N/A		
HS9735-032-108-125	PINK	264	181	M	N/A	N/A		
HS9735-032-108-126	PINK	219	115	M	N/A	N/A		
HS9735-032-108-127	PINK	250	163	M	N/A	N/A		WHN96EARLY-PINK
HS9735-032-108-128	PINK	242	152	F	N/A	N/A		
HS9735-032-108-129	PINK	234	136	F	N/A	N/A		
HS9735-032-108-130	PINK	228	130	M	N/A	N/A		
HS9735-032-108-131	PINK	225	124	M	N/A	N/A		
HS9735-032-108-132	PINK	234	134	F	N/A	N/A		
HS9735-032-108-133	PINK	245	157	M	N/A	N/A		
HS9735-032-108-134	PINK	245	157	F	N/A	N/A		
HS9735-032-108-135	PINK	246	145	F	N/A	N/A		
HS9735-032-108-136	PINK	228	136	M	N/A	N/A		
HS9735-032-108-137	PINK	217	103	M	N/A	N/A		
HS9735-032-108-138	PINK	232	121	M	N/A	N/A		
HS9735-032-108-139	PINK	244	131	M	N/A	N/A		
HS9735-032-108-140	PINK	231	123	F	N/A	N/A		
HS9735-032-108-141	PINK	233	144	M	N/A	N/A		
HS9735-032-108-142	PINK	237	149	F	N/A	N/A		
HS9735-032-108-143	PINK	224	116	F	N/A	N/A		
HS9735-032-108-144	PINK	242	158	F	N/A	N/A		
HS9735-032-108-145	PINK	271	208	M	N/A	N/A		
HS9735-032-108-146	PINK	265	205	M	N/A	N/A		
HS9735-032-108-147	PINK	244	154	F	N/A	N/A		
HS9735-032-108-148	PINK	224	107	M	N/A	N/A		
HS9735-032-108-149	PINK	239	139	F	N/A	N/A		
HS9735-032-108-150	PINK	240	143	M	N/A	N/A		G96-PINK
HS9735-032-108-151	PINK	243	139	F	N/A	N/A		
HS9735-032-108-152	PINK	243	150	M	N/A	N/A		
HS9735-032-108-153	PINK	240	136	F	N/A	N/A		
HS9735-032-108-154	PINK	235	150	F	N/A	N/A		
HS9735-032-108-155	PINK	252	187	F	N/A	N/A		
HS9735-032-108-156	PINK	253	182	M	N/A	N/A		
HS9735-032-108-157	PINK	248	157	M	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-158	PINK	279	213	F	N/A	N/A		SG96-PINK
HS9735-032-108-159	PINK	254	160	F	N/A	N/A		SG96-PINK
HS9735-032-108-160	PINK	248	150	F	N/A	N/A		
HS9735-032-108-161	PINK	271	195	F	N/A	N/A		
HS9735-032-108-162	PINK	245	154	M	N/A	N/A		
HS9735-032-108-163	PINK	223	119	F	N/A	N/A		
HS9735-032-108-164	PINK	275	211	M	N/A	N/A		
HS9735-032-108-165	PINK	228	120	M	N/A	N/A		
HS9735-032-108-166	PINK	235	134	M	N/A	N/A		
HS9735-032-108-167	PINK	245	168	F	N/A	N/A		
HS9735-032-108-168	PINK	232	129	F	N/A	N/A		
HS9735-032-108-169	PINK	259	202	F	N/A	N/A		
HS9735-032-108-170	PINK	257	177	M	N/A	N/A		
HS9735-032-108-171	PINK	250	157	M	N/A	N/A		
HS9735-032-108-172	PINK	256	176	M	N/A	N/A		
HS9735-032-108-173	PINK	238	144	M	N/A	N/A		
HS9735-032-108-174	PINK	254	172	F	N/A	N/A		
HS9735-032-108-175	PINK	226	119	M	N/A	N/A		
HS9735-032-108-176	PINK	276	209	F	N/A	N/A		SG96-PINK
HS9735-032-108-177	PINK	252	162	M	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-032-108-178	PINK	222	114	M	N/A	N/A		
HS9735-032-108-179	PINK	231	124	F	N/A	N/A		
HS9735-032-108-180	PINK	230	124	F	N/A	N/A		
HS9735-032-108-181	PINK	224	102	F	N/A	N/A		
HS9735-032-108-182	PINK	235	158	F	N/A	N/A		
HS9735-032-108-183	PINK	227	114	F	N/A	N/A		
HS9735-032-108-184	PINK	258	175	M	N/A	N/A		
HS9735-032-108-185	PINK	257	186	M	N/A	N/A		
HS9735-032-108-186	PINK	257	187	F	N/A	N/A		
HS9735-032-108-187	PINK	244	164	M	N/A	N/A		
HS9735-032-108-188	PINK	240	138	M	N/A	N/A		
HS9735-032-108-189	PINK	250	171	M	N/A	N/A		
HS9735-032-108-190	PINK	242	146	F	N/A	N/A		
HS9735-032-108-191	PINK	240	155	M	N/A	N/A		
HS9735-032-108-192	PINK	260	166	F	N/A	N/A		SG96-PINK
HS9735-032-108-193	PINK	228	111	F	N/A	N/A		
HS9735-032-108-194	PINK	246	145	M	N/A	N/A		
HS9735-032-108-195	PINK	261	179	M	N/A	N/A		
HS9735-032-108-196	PINK	241	146	F	N/A	N/A		
HS9735-032-108-197	PINK	240	132	F	N/A	N/A		AFK96LATE-PINK
HS9735-032-108-198	PINK	227	125	F	N/A	N/A		
HS9735-032-108-199	PINK	241	134	F	N/A	N/A		
HS9735-032-108-200	PINK	245	144	F	N/A	N/A		
HS9735-032-108-201	PINK	248	156	M	N/A	N/A		
HS9735-032-108-202	PINK	246	143	M	N/A	N/A		
HS9735-032-108-203	PINK	279	225	F	N/A	N/A		
HS9735-032-108-204	PINK	254	175	M	N/A	N/A		
HS9735-032-108-205	PINK	246	144	M	N/A	N/A		G96-PINK
HS9735-032-108-206	PINK	225	108	M	N/A	N/A		
HS9735-032-108-207	PINK	246	140	F	N/A	N/A		
HS9735-032-108-208	PINK	233	137	F	N/A	N/A		
HS9735-032-108-209	PINK	241	159	F	N/A	N/A		
HS9735-032-108-210	PINK	233	127	F	N/A	N/A		CC96-PINK
HS9735-032-108-211	PINK	252	171	F	N/A	N/A		
HS9735-032-108-212	PINK	256	164	F	N/A	N/A		
HS9735-032-108-213	PINK	244	143	M	N/A	N/A		
HS9735-032-108-214	PINK	245	143	M	N/A	N/A		
HS9735-032-108-215	PINK	258	171	F	N/A	N/A		WHN96EARLY-PINK
HS9735-032-108-216	PINK	231	130	F	N/A	N/A		
HS9735-032-108-217	PINK	237	140	F	N/A	N/A		
HS9735-032-108-218	PINK	240	138	M	N/A	N/A		
HS9735-032-108-219	PINK	262	196	F	N/A	N/A		CC96-PINK
HS9735-032-108-220	PINK	260	185	F	N/A	N/A		
HS9735-032-108-221	PINK	262	189	F	N/A	N/A		
HS9735-033-108-001	PINK	226	112	N/A	0.00	79.51		AFK96EARLY-PINK
HS9735-033-108-002	PINK	260	158	N/A	0.00	78.76		
HS9735-033-108-003	PINK	235	128	N/A	0.00	77.52		
HS9735-033-108-004	PINK	282	226	F	0.30	74.14		
HS9735-033-108-005	PINK	230	127	M	0.00	74.28		
HS9735-033-108-006	PINK	232	121	F	0.00	78.06		
HS9735-033-108-007	PINK	212	90	F	0.00	79.23		
HS9735-034-108-001	PINK	244	144	F	N/A	N/A		
HS9735-034-108-002	PINK	243	143	M	N/A	N/A		
HS9735-034-108-003	PINK	250	156	M	N/A	N/A		
HS9735-034-108-004	PINK	246	144	M	N/A	N/A		
HS9735-034-108-005	PINK	239	128	M	N/A	N/A		
HS9735-034-108-006	PINK	240	145	F	N/A	N/A		
HS9735-034-108-007	PINK	235	121	F	N/A	N/A		
HS9735-034-108-008	PINK	233	115	M	N/A	N/A		
HS9735-034-108-009	PINK	238	129	F	N/A	N/A		
HS9735-034-108-010	PINK	240	133	F	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-034-108-011	PINK	235	129	M	N/A	N/A		
HS9735-034-108-012	PINK	230	109	F	N/A	N/A		
HS9735-034-108-013	PINK	270	210	F	N/A	N/A		
HS9735-034-108-014	PINK	247	135	M	N/A	N/A		
HS9735-034-108-015	PINK	252	155	M	N/A	N/A		
HS9735-034-108-016	PINK	234	126	F	N/A	N/A		
HS9735-034-108-017	PINK	246	129	M	N/A	N/A		
HS9735-034-108-018	PINK	221	112	M	N/A	N/A		
HS9735-034-108-019	PINK	226	104	M	N/A	N/A		
HS9735-034-108-020	PINK	232	124	F	N/A	N/A		
HS9735-034-108-021	PINK	247	161	M	N/A	N/A		
HS9735-034-108-022	PINK	255	128	M	N/A	N/A		
HS9735-034-108-023	PINK	242	125	F	N/A	N/A		AFK96LATE-PINK
HS9735-034-108-024	PINK	237	112	M	N/A	N/A		
HS9735-034-108-025	PINK	228	113	F	N/A	N/A		
HS9735-034-108-026	PINK	230	148	M	N/A	N/A		
HS9735-034-108-027	PINK	250	173	F	N/A	N/A		
HS9735-034-108-028	PINK	260	140	F	N/A	N/A		
HS9735-034-108-029	PINK	245	149	M	N/A	N/A		
HS9735-034-108-030	PINK	245	155	F	N/A	N/A		
HS9735-034-108-031	PINK	243	131	M	N/A	N/A		
HS9735-034-108-032	PINK	255	148	M	N/A	N/A		
HS9735-034-108-033	PINK	234	111	M	N/A	N/A		
HS9735-034-108-034	PINK	223	103	F	N/A	N/A		
HS9735-034-108-035	PINK	215	96	M	N/A	N/A		
HS9735-034-108-036	PINK	257	162	F	N/A	N/A		CC96-PINK
HS9735-034-108-037	PINK	273	210	M	N/A	N/A		
HS9735-034-108-038	PINK	290	248	M	N/A	N/A		
HS9735-034-108-039	PINK	239	126	M	N/A	N/A		
HS9735-034-108-040	PINK	252	156	M	N/A	N/A		AFK96LATE-PINK
HS9735-035-108-001	PINK	237	117	F	0.00	79.84		WHN96EARLY-PINK
HS9735-035-108-002	PINK	227	106	F	0.19	78.65		AFK96LATE-PINK
HS9735-035-108-003	PINK	233	120	F	0.47	77.96		CC96-PINK
HS9735-035-108-004	PINK	237	156	M	0.03	78.11		AFK96LATE-PINK
HS9735-035-108-005	PINK	245	152	F	0.00	76.47		
HS9735-035-108-006	PINK	253	155	M	7.46	79.26		
HS9735-035-108-007	PINK	258	176	M	4.44	75.63		
HS9735-035-108-008	PINK	261	173	M	0.20	79.32		
HS9735-035-108-009	PINK	250	146	F	0.82	78.90		WHN96EARLY-PINK
HS9735-035-108-010	PINK	240	130	F	0.66	77.34		
HS9735-035-108-011	PINK	238	139	F	0.53	78.54		
HS9735-035-108-012	PINK	241	135	F	1.80	77.82		
HS9735-035-108-013	PINK	222	104	M	0.70	78.55		
HS9735-035-108-014	PINK	242	131	F	0.40	77.43		
HS9735-035-108-015	PINK	227	119	F	1.13	75.48		
HS9735-035-108-016	PINK	233	119	F	0.27	79.04		
HS9735-035-108-017	PINK	237	144	M	0.34	77.57		
HS9735-035-108-018	PINK	240	139	M	0.00	75.65		CC96-PINK
HS9735-035-108-019	PINK	263	198	F	0.00	74.81		
HS9735-035-108-020	PINK	219	101	M	0.00	79.38		
HS9735-035-108-021	PINK	249	161	M	0.00	76.80		
HS9735-035-108-022	PINK	262	207	F	0.00	73.04		
HS9735-035-108-023	PINK	267	193	F	0.48	77.33		SG96-PINK
HS9735-035-108-024	PINK	261	186	F	0.00	75.51		SG96-PINK
HS9735-035-108-025	PINK	251	168	M	0.19	78.98		WHN96EARLY-PINK
HS9735-035-108-026	PINK	246	142	M	0.30	79.70		
HS9735-035-108-027	PINK	234	143	M	3.94	76.66		
HS9735-035-108-028	PINK	243	144	F	0.05	78.52		
HS9735-035-108-029	PINK	214	94	M	0.09	79.32		
HS9735-035-108-030	PINK	225	107	F	0.00	78.96		
HS9735-035-108-031	PINK	261	173	F	N/A	N/A		SG96-PINK

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-035-108-032	PINK	256	169	M	N/A	N/A		
HS9735-035-108-033	PINK	235	135	M	N/A	N/A		
HS9735-035-108-034	PINK	265	168	M	N/A	N/A		
HS9735-035-108-035	PINK	237	140	F	N/A	N/A		
HS9735-035-108-036	PINK	244	150	F	N/A	N/A		
HS9735-035-108-037	PINK	245	158	M	N/A	N/A		
HS9735-035-108-038	PINK	242	148	F	N/A	N/A		
HS9735-035-108-039	PINK	234	138	F	N/A	N/A		
HS9735-035-108-040	PINK	231	120	M	N/A	N/A		
HS9735-036-108-001	PINK	238	141	F	N/A	N/A		
HS9735-036-108-002	PINK	228	118	M	N/A	N/A		
HS9735-036-108-003	PINK	234	120	M	N/A	N/A		
HS9735-036-108-004	PINK	221	98	M	N/A	N/A		
HS9735-036-108-005	PINK	233	121	F	N/A	N/A		
HS9735-036-108-006	PINK	245	133	M	N/A	N/A		
HS9735-036-108-007	PINK	223	100	F	N/A	N/A		
HS9735-036-108-008	PINK	238	121	F	N/A	N/A		
HS9735-036-108-009	PINK	234	125	M	N/A	N/A		
HS9735-036-108-010	PINK	257	169	F	N/A	N/A		
HS9735-036-108-011	PINK	232	107	M	0.24	78.61		
HS9735-036-108-012	PINK	228	115	F	0.50	77.82		
HS9735-036-108-013	PINK	220	98	F	0.07	78.19		
HS9735-036-108-014	PINK	226	118	F	1.01	79.68		
HS9735-036-108-015	PINK	235	125	F	0.17	77.35		
HS9735-036-108-016	PINK	235	121	M	0.41	79.43		
HS9735-036-108-017	PINK	221	93	M	0.15	79.34		
HS9735-036-108-018	PINK	230	116	M	0.62	78.52		
HS9735-036-108-019	PINK	226	108	F	0.35	78.25		
HS9735-036-108-020	PINK	246	160	M	1.38	78.51		
HS9735-036-108-021	PINK	230	115	F	0.45	77.79		
HS9735-036-108-022	PINK	232	119	F	1.41	79.05		
HS9735-036-108-023	PINK	238	119	M	0.23	79.34		
HS9735-036-108-024	PINK	224	104	F	0.54	78.23		
HS9735-036-108-025	PINK	240	141	F	0.70	76.59		
HS9735-036-108-026	PINK	250	134	M	0.79	79.49		
HS9735-036-108-027	PINK	234	117	F	0.37	79.19		
HS9735-036-108-028	PINK	227	115	M	0.07	78.36	AFK96LATE-PINK	
HS9735-036-108-029	PINK	238	135	M	1.69	76.75		
HS9735-036-108-030	PINK	226	110	M	N/A	N/A		
HS9735-036-108-031	PINK	250	161	M	N/A	N/A		
HS9735-036-108-032	PINK	215	105	M	N/A	N/A		
HS9735-036-108-033	PINK	225	119	M	N/A	N/A		
HS9735-036-108-034	PINK	229	122	M	N/A	N/A		
HS9735-036-108-035	PINK	243	143	F	N/A	N/A		
HS9735-036-108-036	PINK	245	156	F	N/A	N/A		
HS9735-036-108-037	PINK	240	158	M	N/A	N/A		
HS9735-036-108-038	PINK	223	109	F	N/A	N/A		
HS9735-036-108-039	PINK	236	137	F	N/A	N/A	AFK96LATE-PINK	
HS9735-036-108-040	PINK	239	145	F	N/A	N/A		
HS9735-036-108-041	PINK	232	132	F	N/A	N/A		
HS9735-036-108-042	PINK	245	152	F	N/A	N/A		
HS9735-036-108-043	PINK	224	121	M	N/A	N/A		
HS9735-036-108-044	PINK	241	147	F	N/A	N/A		
HS9735-036-108-045	PINK	227	127	F	N/A	N/A		
HS9735-036-108-046	PINK	230	122	F	N/A	N/A		
HS9735-036-108-047	PINK	238	138	F	N/A	N/A		
HS9735-036-108-048	PINK	230	125	F	N/A	N/A		
HS9735-036-108-049	PINK	238	158	M	N/A	N/A	AFK96LATE-PINK	
HS9735-036-108-050	PINK	227	124	M	N/A	N/A		
HS9735-036-108-051	PINK	234	142	F	N/A	N/A		
HS9735-036-108-052	PINK	213	107	F	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-036-108-053	PINK	231	128	F	N/A	N/A		CC96-PINK
HS9735-036-108-054	PINK	239	164	F	N/A	N/A		
HS9735-036-108-055	PINK	194	67	F	N/A	N/A		
HS9735-037-108-001	PINK	258	183	M	N/A	N/A		
HS9735-037-108-002	PINK	237	126	M	N/A	N/A		
HS9735-037-108-003	PINK	242	128	M	N/A	N/A		
HS9735-037-108-004	PINK	232	127	F	N/A	N/A		
HS9735-037-108-005	PINK	257	173	M	N/A	N/A		
HS9735-037-108-006	PINK	236	140	F	N/A	N/A		
HS9735-037-108-007	PINK	285	226	M	N/A	N/A		
HS9735-037-108-008	PINK	227	108	M	N/A	N/A		
HS9735-037-108-009	PINK	244	135	F	N/A	N/A		
HS9735-037-108-010	PINK	257	150	F	N/A	N/A		
HS9735-037-108-011	PINK	235	118	F	N/A	N/A		
HS9735-037-108-012	PINK	240	141	F	N/A	N/A		
HS9735-037-108-013	PINK	240	143	M	N/A	N/A		
HS9735-037-108-014	PINK	255	150	M	N/A	N/A		
HS9735-037-108-015	PINK	245	148	F	N/A	N/A		
HS9735-037-108-016	PINK	235	132	F	N/A	N/A		
HS9735-037-108-017	PINK	240	138	M	N/A	N/A		
HS9735-037-108-018	PINK	247	146	F	N/A	N/A		
HS9735-037-108-019	PINK	243	135	M	N/A	N/A		
HS9735-037-108-020	PINK	233	115	M	N/A	N/A		
HS9735-037-108-021	PINK	235	123	M	N/A	N/A		
HS9735-037-108-022	PINK	228	106	F	N/A	N/A		
HS9735-037-108-023	PINK	233	119	F	N/A	N/A		
HS9735-037-108-024	PINK	220	108	M	N/A	N/A		
HS9735-045-108-001	PINK	255	164	N/A	0.73	75.06		
HS9735-045-108-002	PINK	247	147	N/A	0.53	76.59		
HS9735-045-108-003	PINK	256	154	N/A	0.68	77.97		
HS9735-045-108-004	PINK	260	169	N/A	0.46	76.74		
HS9735-045-108-005	PINK	273	189	N/A	0.69	77.83		
HS9735-045-108-006	PINK	245	134	N/A	0.32	78.21		WHN96EARLY-PINK
HS9735-045-108-007	PINK	251	125	N/A	0.34	74.61		
HS9735-045-108-008	PINK	230	119	N/A	0.62	75.11		
HS9735-045-108-009	PINK	281	213	N/A	0.66	75.00		WHN96EARLY-PINK
HS9735-046-108-001	PINK	270	181	M	0.15	76.01		
HS9735-046-108-002	PINK	256	176	F	0.00	73.06		
HS9735-046-108-003	PINK	279	221	M	0.22	72.97		
HS9735-046-108-004	PINK	264	184	M	0.75	74.05		
HS9735-046-108-005	PINK	252	165	F	0.00	74.95		
HS9735-046-108-006	PINK	264	172	F	0.42	74.51		SG96-PINK
HS9735-046-108-007	PINK	250	157	M	0.35	75.62		AFK96LATE-PINK
HS9735-046-108-008	PINK	318	321	M	4.11	74.21		
HS9735-046-108-009	PINK	286	233	F	0.44	73.10		
HS9735-046-108-010	PINK	301	272	M	9.98	73.92		SG96-PINK
HS9735-046-108-011	PINK	286	234	M	2.19	72.54		WHN96EARLY-PINK
HS9735-046-108-012	PINK	252	158	M	0.47	74.00		
HS9735-046-108-013	PINK	292	245	F	0.55	71.27		
HS9735-046-108-014	PINK	296	248	F	0.47	73.36		WHN96EARLY-PINK
HS9735-046-108-015	PINK	266	185	F	0.53	75.22		
HS9735-046-108-016	PINK	257	157	F	0.00	74.46		
HS9735-046-108-017	PINK	265	196	F	1.40	75.79		SG96-PINK
HS9735-046-108-018	PINK	283	216	F	0.00	75.94		
HS9735-046-108-019	PINK	282	234	M	0.00	72.69		AFK96LATE-PINK
HS9735-046-108-020	PINK	296	273	M	9.72	77.31		
HS9735-046-108-021	PINK	246	175	F	0.52	72.90		
HS9735-046-108-022	PINK	260	181	F	0.00	75.21		
HS9735-046-108-023	PINK	220	124	F	0.42	75.08		
HS9735-046-108-024	PINK	264	177	F	0.06	75.02		
HS9735-046-108-025	PINK	250	167	M	0.16	76.36		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-046-108-026	PINK	233	134	F	0.18	77.32		
HS9735-046-108-027	PINK	224	119	F	0.06	77.64		CC96-PINK
HS9735-046-108-028	PINK	245	156	F	0.40	76.68		AFK96EARLY-PINK
HS9735-046-108-029	PINK	253	178	M	0.26	76.47		
HS9735-046-108-030	PINK	205	97	F	1.08	75.80		
HS9735-046-108-031	PINK	255	184	F	2.35	74.12		
HS9735-046-108-032	PINK	224	111	F	0.21	77.00		
HS9735-046-108-033	PINK	246	158	F	0.10	75.33		
HS9735-046-108-034	PINK	242	146	F	1.56	77.00		
HS9735-046-108-035	PINK	249	184	F	5.34	73.19		
HS9735-046-108-036	PINK	234	136	M	0.18	78.07		
HS9735-046-108-037	PINK	237	152	F	0.00	76.22		
HS9735-047-108-001	PINK	238	130	M	3.53	77.23		
HS9735-047-108-002	PINK	253	157	M	3.07	74.98		
HS9735-047-108-003	PINK	272	197	M	1.71	75.28		SG96-PINK
HS9735-047-108-004	PINK	239	135	M	5.24	75.56		
HS9735-047-108-005	PINK	222	115	M	1.04	75.52		
HS9735-047-108-006	PINK	235	129	M	3.87	78.14		
HS9735-047-108-007	PINK	283	217	M	0.14	73.47		SG96-PINK
HS9735-047-108-008	PINK	225	106	F	0.09	77.94		
HS9735-047-108-009	PINK	262	175	F	0.33	73.28		CC96-PINK
HS9735-047-108-010	PINK	240	130	F	1.99	75.38		
HS9735-047-108-011	PINK	249	142	M	0.92	76.84		CC96-PINK
HS9735-047-108-012	PINK	228	116	M	0.22	77.55		
HS9735-047-108-013	PINK	250	149	F	2.72	75.93		
HS9735-047-108-014	PINK	230	117	F	0.25	75.26		
HS9735-047-108-015	PINK	264	198	F	0.00	74.19		
HS9735-047-108-016	PINK	235	118	F	0.17	77.02		
HS9735-048-108-001	PINK	229	107	F	2.49	77.49		
HS9735-048-108-002	PINK	263	157	M	3.76	76.62		
HS9735-048-108-003	PINK	261	185	F	5.85	74.71		
HS9735-048-108-004	PINK	253	157	M	4.55	76.40		
HS9735-048-108-005	PINK	303	279	M	17.14	73.76		SG96-PINK
HS9735-048-108-006	PINK	243	128	M	6.78	78.18		
HS9735-048-108-007	PINK	227	112	M	4.73	78.10		CC96-PINK
HS9735-049-108-001	PINK	237	133	M	0.61	75.60		
HS9735-049-108-002	PINK	255	167	F	12.26	79.12		WHN96LATE-PINK
HS9735-049-108-003	PINK	250	147	M	3.24	77.57		
HS9735-049-108-004	PINK	231	118	F	3.36	77.92		
HS9735-049-108-005	PINK	203	75	M	0.92	75.53		
HS9735-050-108-001	PINK	260	175	F	2.33	74.85		
HS9735-051-108-001	PINK	260	162	F	1.45	75.83		CC96-PINK
HS9735-056-108-001	PINK	243	132	M	0.44	74.93		
HS9735-057-108-001	PINK	238	133	F	2.36	75.14		
HS9735-057-108-002	PINK	227	117	F	3.13	77.60		
HS9735-057-108-003	PINK	243	137	M	0.06	75.24		
HS9735-057-108-004	PINK	257	171	M	7.43	75.48		CC96-PINK
HS9735-057-108-005	PINK	265	178	F	2.00	75.41		
HS9735-057-108-006	PINK	224	118	M	0.94	74.57		
HS9735-057-108-007	PINK	238	135	F	0.30	76.11		
HS9735-057-108-008	PINK	245	152	M	5.18	75.59		
HS9735-057-108-009	PINK	240	137	F	1.49	75.29		
HS9735-057-108-010	PINK	263	180	M	0.39	76.04		
HS9735-057-108-011	PINK	265	167	M	0.47	76.68		AFK96LATE-PINK
HS9735-057-108-012	PINK	250	162	M	3.98	75.21		
HS9735-057-108-013	PINK	257	171	M	1.77	74.87		
HS9735-057-108-014	PINK	232	106	F	0.49	78.23		AFK96EARLY-PINK
HS9735-057-108-015	PINK	263	176	M	0.66	74.79		
HS9735-057-108-016	PINK	265	203	M	0.99	74.22		
HS9735-057-108-017	PINK	250	151	M	1.35	77.51		
HS9735-057-108-018	PINK	262	169	F	0.22	74.11		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-060-108-001	PINK	278	221	F	1.42	73.35		WHN96EARLY-PINK
HS9735-060-108-002	PINK	267	172	M	0.32	76.31		AFK96LATE-PINK
HS9735-061-108-001	PINK	285	224	F	0.00	73.00		WHN96LATE-PINK
HS9735-061-108-002	PINK	266	175	M	0.00	73.41		
HS9735-061-108-003	PINK	278	219	M	0.00	73.52		
HS9735-061-108-004	PINK	263	170	F	0.00	71.82		
HS9735-061-108-005	PINK	270	181	M	0.00	74.15		
HS9735-061-108-006	PINK	273	187	M	0.00	76.64		
HS9735-061-108-007	PINK	260	163	F	0.00	74.91		
HS9735-061-108-008	PINK	266	187	F	N/A	N/A		
HS9735-061-108-009	PINK	267	172	F	N/A	N/A		AFK96LATE-PINK
HS9735-061-108-010	PINK	279	179	F	0.00	76.54		
HS9735-061-108-011	PINK	275	197	F	N/A	N/A		
HS9735-061-108-012	PINK	282	194	M	0.00	76.26		CC96-PINK
HS9735-061-108-013	PINK	246	134	M	N/A	N/A		
HS9735-061-108-014	PINK	271	197	F	0.00	75.06		AFK96LATE-PINK
HS9735-061-108-015	PINK	271	192	F	0.00	74.26		SG96-PINK
HS9735-061-108-016	PINK	242	140	F	0.00	75.77		
HS9735-061-108-017	PINK	268	178	M	0.00	72.58		
HS9735-061-108-018	PINK	247	141	M	0.00	75.11		CC96-PINK
HS9735-061-108-019	PINK	257	150	F	0.00	75.18		
HS9735-061-108-020	PINK	246	147	M	0.00	73.84		
HS9735-061-108-021	PINK	256	148	F	0.00	74.62		
HS9735-061-108-022	PINK	277	200	M	0.00	74.32		SG96-PINK
HS9735-061-108-023	PINK	261	156	M	0.00	76.36		
HS9735-061-108-024	PINK	247	152	M	0.00	73.23		
HS9735-061-108-025	PINK	232	117	M	N/A	N/A		
HS9735-061-108-026	PINK	251	140	F	0.05	75.58		
HS9735-061-108-027	PINK	263	168	F	0.00	75.71		AFK96LATE-PINK
HS9735-061-108-028	PINK	248	159	F	0.00	73.14		
HS9735-061-108-029	PINK	267	195	M	0.00	73.83		AFK96LATE-PINK
HS9735-061-108-030	PINK	260	171	F	0.00	75.86		AFK96EARLY-PINK
HS9735-062-108-001	PINK	284	213	F	1.01	76.30		
HS9735-062-108-002	PINK	271	187	M	0.72	74.56		
HS9735-062-108-003	PINK	283	212	M	1.29	75.07		
HS9735-062-108-004	PINK	261	176	M	1.28	75.35		
HS9735-062-108-005	PINK	258	164	M	2.31	74.55		
HS9735-062-108-006	PINK	256	165	F	1.05	74.41		
HS9735-062-108-007	PINK	272	173	M	0.77	75.85		
HS9735-062-108-008	PINK	252	163	F	0.99	73.56		
HS9735-062-108-009	PINK	275	185	F	0.85	75.79		AFK96LATE-PINK
HS9735-062-108-010	PINK	254	145	F	0.88	74.83		
HS9735-062-108-011	PINK	266	193	F	N/A	N/A		SG96-PINK
HS9735-062-108-012	PINK	257	156	M	N/A	N/A		CC96-PINK
HS9735-062-108-013	PINK	262	195	M	N/A	N/A		
HS9735-062-108-014	PINK	273	214	F	N/A	N/A		
HS9735-062-108-015	PINK	259	183	M	N/A	N/A		AFK96LATE-PINK
HS9735-062-108-016	PINK	265	171	M	N/A	N/A		
HS9735-062-108-017	PINK	241	134	F	N/A	N/A		
HS9735-062-108-018	PINK	262	155	M	N/A	N/A		AFK96LATE-PINK
HS9735-062-108-019	PINK	261	175	M	N/A	N/A		
HS9735-062-108-020	PINK	264	157	M	N/A	N/A		
HS9735-062-108-021	PINK	264	187	M	N/A	N/A		
HS9735-062-108-022	PINK	274	213	F	N/A	N/A		
HS9735-062-108-023	PINK	254	173	M	N/A	N/A		
HS9735-062-108-024	PINK	261	188	F	N/A	N/A		
HS9735-062-108-025	PINK	253	166	F	N/A	N/A		
HS9735-062-108-026	PINK	269	173	M	N/A	N/A		
HS9735-063-108-001	PINK	250	159	F	0.38	75.49		
HS9735-063-108-002	PINK	256	153	F	0.08	73.53		
HS9735-063-108-003	PINK	261	179	M	0.20	73.95		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-063-108-004	PINK	272	186	F	0.31	74.78		
HS9735-063-108-005	PINK	255	167	F	1.10	74.39		
HS9735-063-108-006	PINK	286	216	F	2.38	74.07		
HS9735-063-108-007	PINK	272	183	M	0.19	75.91		
HS9735-063-108-008	PINK	250	152	M	0.15	74.27		CC96-PINK
HS9735-063-108-009	PINK	257	164	M	0.44	74.33		
HS9735-063-108-010	PINK	263	170	M	0.32	75.50		AFK96LATE-PINK
HS9735-063-108-011	PINK	257	153	M	0.31	76.61		
HS9735-063-108-012	PINK	269	174	M	0.19	75.38		
HS9735-063-108-013	PINK	272	198	M	0.41	74.07		AFK96LATE-PINK
HS9735-063-108-014	PINK	280	238	F	7.33	71.22		
HS9735-063-108-015	PINK	256	164	F	5.95	75.05		
HS9735-063-108-016	PINK	261	190	F	0.73	73.04		
HS9735-063-108-017	PINK	247	145	M	0.40	72.51		
HS9735-063-108-018	PINK	268	186	F	0.27	74.47		
HS9735-063-108-019	PINK	261	157	M	0.20	76.98		
HS9735-063-108-020	PINK	265	167	M	0.24	75.67		
HS9735-063-108-021	PINK	266	181	F	0.74	72.87		WHN96EARLY-PINK
HS9735-064-108-001	PINK	266	178	M	N/A	N/A		
HS9735-065-108-001	PINK	228	107	M	0.79	78.20		
HS9735-065-108-002	PINK	264	195	F	1.15	73.61		
HS9735-065-108-003	PINK	273	186	F	0.87	74.22		
HS9735-065-108-004	PINK	251	154	M	0.31	71.14		
HS9735-065-108-005	PINK	252	157	M	0.59	73.88		
HS9735-067-108-001	PINK	258	159	M	N/A	N/A		
HS9735-068-108-001	PINK	246	144	F	1.77	79.32		
HS9735-068-108-002	PINK	250	147	F	1.16	78.46		
HS9735-068-108-003	PINK	255	161	M	1.50	76.56		
HS9735-068-108-004	PINK	258	171	M	N/A	N/A		
HS9735-032-118-001	SOCKEYE	262	187	M	N/A	N/A		
HS9735-032-118-002	SOCKEYE	247	162	F	N/A	N/A		
HS9735-032-118-003	SOCKEYE	240	162	M	N/A	N/A		
HS9735-032-118-004	SOCKEYE	236	141	F	N/A	N/A		
HS9735-032-118-005	SOCKEYE	237	140	M	N/A	N/A		
HS9735-032-118-006	SOCKEYE	236	133	M	N/A	N/A		
HS9735-032-118-007	SOCKEYE	275	208	F	N/A	N/A		
HS9735-032-118-008	SOCKEYE	252	192	M	N/A	N/A		
HS9735-032-118-009	SOCKEYE	262	180	M	N/A	N/A		
HS9735-032-118-010	SOCKEYE	241	133	M	N/A	N/A		
HS9735-032-118-011	SOCKEYE	250	167	F	0.00	75.68		
HS9735-032-118-012	SOCKEYE	242	155	M	0.00	75.64		
HS9735-032-118-013	SOCKEYE	212	93	M	0.00	75.11		
HS9735-032-118-014	SOCKEYE	245	155	M	0.00	75.60		
HS9735-032-118-015	SOCKEYE	228	122	M	0.00	75.80		
HS9735-032-118-016	SOCKEYE	236	136	F	0.00	73.76		
HS9735-032-118-017	SOCKEYE	247	160	F	0.00	74.68		
HS9735-032-118-018	SOCKEYE	218	110	M	0.03	75.61		
HS9735-032-118-019	SOCKEYE	243	155	M	0.00	74.28		
HS9735-032-118-020	SOCKEYE	245	147	M	0.00	76.23		
HS9735-032-118-021	SOCKEYE	210	97	F	0.00	74.90		
HS9735-032-118-022	SOCKEYE	238	135	F	0.00	74.87		
HS9735-032-118-023	SOCKEYE	236	130	M	0.00	76.53		
HS9735-032-118-024	SOCKEYE	241	152	F	0.00	74.36		
HS9735-032-118-025	SOCKEYE	245	155	M	7.15	74.26		
HS9735-032-118-026	SOCKEYE	248	156	M	0.09	75.90		
HS9735-032-118-027	SOCKEYE	225	122	F	N/A	N/A		
HS9735-032-118-028	SOCKEYE	240	143	F	N/A	N/A		
HS9735-032-118-029	SOCKEYE	250	156	F	N/A	N/A		
HS9735-032-118-030	SOCKEYE	220	117	M	N/A	N/A		
HS9735-032-118-031	SOCKEYE	235	129	M	N/A	N/A		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-032-118-032	SOCKEYE	207	91	F	N/A	N/A		
HS9735-032-118-033	SOCKEYE	262	204	M	0.00	73.68		
HS9735-034-118-001	SOCKEYE	245	144	M	0.00	73.94		
HS9735-034-118-002	SOCKEYE	230	123	M	0.17	74.94		
HS9735-034-118-003	SOCKEYE	243	140	M	0.37	74.55		
HS9735-034-118-004	SOCKEYE	260	189	M	0.60	74.23		
HS9735-034-118-005	SOCKEYE	240	148	M	2.39	75.05		
HS9735-034-118-006	SOCKEYE	223	123	F	0.07	74.15		
HS9735-034-118-007	SOCKEYE	246	153	F	0.37	74.41		
HS9735-034-118-008	SOCKEYE	231	121	F	0.53	75.20		
HS9735-034-118-009	SOCKEYE	235	128	F	0.93	73.61		S-CK94-SOCK
HS9735-034-118-010	SOCKEYE	232	131	M	0.12	75.03		
HS9735-034-118-011	SOCKEYE	232	124	F	N/A	N/A		
HS9735-034-118-012	SOCKEYE	212	98	M	N/A	N/A		
HS9735-034-118-013	SOCKEYE	218	103	F	N/A	N/A		
HS9735-034-118-014	SOCKEYE	225	122	F	N/A	N/A		
HS9735-034-118-015	SOCKEYE	222	106	F	N/A	N/A		
HS9735-034-118-016	SOCKEYE	233	121	M	N/A	N/A		
HS9735-034-118-017	SOCKEYE	220	107	M	N/A	N/A		
HS9735-034-118-018	SOCKEYE	217	106	M	0.02	75.72		
HS9735-034-118-019	SOCKEYE	234	137	F	0.00	72.95		
HS9735-034-118-020	SOCKEYE	217	107	F	0.38	74.05		
HS9735-034-118-021	SOCKEYE	235	140	F	0.03	74.08		
HS9735-034-118-022	SOCKEYE	207	93	F	0.33	76.87		
HS9735-034-118-023	SOCKEYE	230	112	F	0.00	75.93		
HS9735-034-118-024	SOCKEYE	212	91	F	0.00	75.15		
HS9735-034-118-025	SOCKEYE	233	127	F	0.26	76.38		
HS9735-034-118-026	SOCKEYE	224	106	M	N/A	N/A		
HS9735-034-118-027	SOCKEYE	230	123	F	N/A	N/A		
HS9735-034-118-028	SOCKEYE	237	138	M	N/A	N/A		
HS9735-034-118-029	SOCKEYE	223	116	F	N/A	N/A		
HS9735-034-118-030	SOCKEYE	228	107	F	N/A	N/A		
HS9735-034-118-031	SOCKEYE	230	148	F	N/A	N/A		
HS9735-035-118-001	SOCKEYE	240	154	F	0.21	74.42		
HS9735-035-118-002	SOCKEYE	248	143	M	0.19	75.32		
HS9735-035-118-003	SOCKEYE	255	182	M	0.00	73.71		
HS9735-035-118-004	SOCKEYE	237	139	F	0.00	75.68		
HS9735-035-118-005	SOCKEYE	224	109	M	0.24	75.39		
HS9735-035-118-006	SOCKEYE	259	166	M	0.00	76.17		
HS9735-035-118-007	SOCKEYE	257	198	F	0.00	74.34		
HS9735-035-118-008	SOCKEYE	224	105	F	0.31	75.98		
HS9735-035-118-009	SOCKEYE	218	107	F	0.05	76.16		
HS9735-035-118-010	SOCKEYE	205	87	M	0.05	76.78		
HS9735-035-118-011	SOCKEYE	225	118	F	0.25	75.34		
HS9735-035-118-012	SOCKEYE	226	128	M	0.32	75.67		
HS9735-035-118-013	SOCKEYE	214	101	F	0.51	76.64		
HS9735-035-118-014	SOCKEYE	260	185	M	1.64	74.93		
HS9735-035-118-015	SOCKEYE	220	107	M	0.57	75.15		
HS9735-035-118-016	SOCKEYE	217	103	M	0.42	76.28		
HS9735-035-118-017	SOCKEYE	259	187	F	1.19	73.47		
HS9735-035-118-018	SOCKEYE	240	139	M	0.45	76.68		
HS9735-035-118-019	SOCKEYE	270	216	M	0.87	73.30		
HS9735-035-118-020	SOCKEYE	227	122	M	1.37	75.79		
HS9735-035-118-021	SOCKEYE	233	139	F	0.19	76.30		
HS9735-035-118-022	SOCKEYE	245	155	M	0.69	77.95		
HS9735-035-118-023	SOCKEYE	230	137	F	0.47	74.78		
HS9735-035-118-024	SOCKEYE	235	131	F	0.62	76.31		
HS9735-035-118-025	SOCKEYE	220	106	M	2.17	77.07		
HS9735-035-118-026	SOCKEYE	212	97	M	0.57	77.31		
HS9735-035-118-027	SOCKEYE	235	135	M	1.84	74.53		
HS9735-035-118-028	SOCKEYE	221	114	M	0.16	76.76		

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
HS9735-035-118-029	SOCKEYE	218	114	M	0.36	74.56		
HS9735-035-118-030	SOCKEYE	245	146	F	0.95	75.37		
HS9735-035-118-031	SOCKEYE	218	114	F	N/A	N/A		
HS9735-035-118-032	SOCKEYE	216	100	F	N/A	N/A		
HS9735-035-118-033	SOCKEYE	222	112	F	N/A	N/A		
HS9735-035-118-034	SOCKEYE	231	132	M	N/A	N/A		
HS9735-035-118-035	SOCKEYE	216	107	F	N/A	N/A		
HS9735-035-118-036	SOCKEYE	230	125	M	N/A	N/A		
HS9735-035-118-037	SOCKEYE	216	104	M	N/A	N/A		
HS9735-035-118-038	SOCKEYE	221	110	M	N/A	N/A		
HS9735-035-118-039	SOCKEYE	231	126	F	N/A	N/A		
HS9735-035-118-040	SOCKEYE	227	127	F	N/A	N/A		S-CK94-SOCK
HS9735-035-118-041	SOCKEYE	208	87	F	N/A	N/A		
HS9735-035-118-042	SOCKEYE	200	81	F	N/A	N/A		
HS9735-035-118-043	SOCKEYE	224	117	M	N/A	N/A		
HS9735-037-118-001	SOCKEYE	237	129	M	N/A	N/A		
HS9735-037-118-002	SOCKEYE	233	120	F	N/A	N/A		
HS9735-037-118-003	SOCKEYE	193	78	M	N/A	N/A		
HS9735-046-118-001	SOCKEYE	235	137	F	5.32	74.80		
HS9735-046-118-002	SOCKEYE	239	150	M	0.00	74.19		
HS9735-046-118-003	SOCKEYE	265	197	F	0.00	74.79		
HS9735-046-118-004	SOCKEYE	208	93	M	0.00	75.97		
HS9735-046-118-005	SOCKEYE	188	66	M	0.16	76.87		
HS9735-049-118-001	SOCKEYE	231	121	F	0.15	74.88		
HS9735-055-118-001	SOCKEYE	518	1301	M	7.42	75.10		
HS9735-055-118-002	SOCKEYE	437	900	M	0.00	76.01		
HS9735-055-118-003	SOCKEYE	308	309	F	1.03	71.13		
HS9735-057-118-001	SOCKEYE	225	113	M	0.02	75.26		
HS9735-057-118-002	SOCKEYE	198	91	F	0.37	75.47		
HS9735-061-118-001	SOCKEYE	215	96	F	0.00	73.88		
HS9735-061-118-002	SOCKEYE	233	121	F	0.09	75.39		
HS9735-061-118-003	SOCKEYE	228	112	F	0.00	74.71		
HS9735-061-118-004	SOCKEYE	228	126	F	0.00	75.30		
HS9735-061-118-005	SOCKEYE	231	130	M	0.00	74.08		
HS9735-061-118-006	SOCKEYE	268	206	F	N/A	N/A		
HS9735-061-118-007	SOCKEYE	260	179	M	0.00	74.00		
HS9735-061-118-008	SOCKEYE	250	154	M	0.00	72.29		
HS9735-062-118-001	SOCKEYE	224	120	M	0.10	72.28		
HS9735-062-118-002	SOCKEYE	242	152	M	0.08	72.89		
HS9735-062-118-003	SOCKEYE	233	130	M	0.45	72.44		
HS9735-062-118-004	SOCKEYE	241	134	M	0.01	73.12		
HS9735-062-118-005	SOCKEYE	250	156	M	0.01	73.88		
HS9735-062-118-006	SOCKEYE	254	164	M	0.12	73.47		
HS9735-062-118-007	SOCKEYE	222	114	M	0.25	73.99		
HS9735-062-118-008	SOCKEYE	231	133	M	0.00	74.06		
HS9735-062-118-009	SOCKEYE	247	156	F	0.01	72.89		
HS9735-063-118-001	SOCKEYE	260	175	F	0.00	73.33		
HS9735-065-118-001	SOCKEYE	249	149	M	N/A	N/A		

Thermal Mark Codes:

Mark	Brood Year	Source Hatchery (Alaska)
AFK96-CHUM	1996	Armin F. Koernig, South-central II.
G96-CHUM	1996	Gastineau, Southeast I.
HF96-CHUM	1996	Hidden Falls, Southeast I.
WHN96EARLY-CHUM	1996	Wally H. Noerenberg, South-central II, early release.
WHN96LATE-CHUM	1996	Wally H. Noerenberg, South-central II, late release.
WHN-PC96EARLY-CHL	1996	Wally H. Noerenberg, South-central II, Port Chalmers release site, early release.
WHN-PC96LATE-CHUM	1996	Wally H. Noerenberg, South-central II, Port Chalmers release site, late release.

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997. Thermal codes are described at the end of this Table.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT	Thermal Mark Code
G95-COHO		1995			Gastineau, Southeast I.			
AFK96EARLY-PINK		1996			Armin F. Koernig, South-central II, early release.			
AFK96LATE-PINK		1996			Armin F. Koernig, South-central II, late release.			
CC96-PINK		1996			Cannery Creek, South-central II.			
G96-PINK		1996			Gastineau, ADFG Management Unit Southeast I.			
SG96-PINK		1996			Soloman Gulch, South-central II (Prince William Sound and Cook Inlet).			
WHN96EARLY-PINK		1996			Wally H. Noerenberg, South-central II, early release.			
WHN96LATE-PINK		1996			Wally H. Noerenberg, South-central II, late release.			
S-CK94-SOCK		1994			Snettisham, Southeast I, Chilkat Lake release site.			

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	CTD	Filename	Transect	Region	Date	Time	Latitude	Longitude	SST	SSS	SSS (ppt)	NO ₃	SiO ₄	PO ₄	Chlorophyll a	Phaeophytin
						UTC	(°N)	(°W)	(°C)	(μmol/L)	(μmol/L)	(μmol/L)	(μmol/L)	(μmol/L)	(μg/L)	Fo / Fa
HS9735CTD001	97350001	QUEEN CHARLOTTE SD QUEEN CHARLOTTE SD	03-Nov-97	23:32	51.858	127.933	9.38	24.04	23.975	11.13	24.50	1.14	0.172	0.323	1.39	
HS973501	97350003	CAPE OMNEKY	05-Nov-97	15:43	55.990	134.560	10.10	31.33	31.324	14.08	25.07	1.32	0.074	0.134	1.40	
HS973502	97350005	CAPE OMNEKY	05-Nov-97	17:30	55.985	134.711	10.41	31.64	31.644	11.57	20.45	1.16	0.033	0.100	1.28	
HS973503	97350007	CAPE OMNEKY	05-Nov-97	19:17	56.000	134.844	10.64	31.84	31.932	8.10	16.26	1.04	0.077	0.204	1.31	
HS973504	97350009	CAPE OMNEKY	05-Nov-97	21:24	56.024	134.952	10.62	31.94	31.932	7.28	12.50	0.89	0.110	0.213	1.38	
HS973505	97350011	CAPE OMNEKY	05-Nov-97	23:17	56.031	135.082	10.33	31.57	31.562	11.25	20.23	1.15	0.064	0.141	1.35	
HS9735CTD013	97350013	CAPE OMNEKY	06-Nov-97	02:02	56.006	135.274	10.38	31.75	31.740	8.72	15.85	1.17	0.074	0.155	1.36	
HS9735015	97350015	CAPE OMNEKY	06-Nov-97	04:21	55.992	135.586	10.53	32.08	32.073	7.06	11.93	0.89	0.084	0.193	1.34	
HS9735017	97350017	CAPE OMNEKY	06-Nov-97	05:26	55.992	135.732	10.59	32.21	32.208	4.40	7.13	0.70	0.091	0.256	1.30	
HS973509	97350019	CAPE OMNEKY	06-Nov-97	06:41	55.993	135.888	10.62	32.18	32.170	3.55	5.45	0.72	0.074	0.236	1.27	
HS973508	97350021	CAPE OMNEKY	06-Nov-97	08:10	55.993	136.039	10.58	32.14	32.138	4.49	8.24	0.73	0.032	0.085	1.31	
HS973507	97350023	CAPE OMNEKY	06-Nov-97	09:23	55.991	136.180	10.45	32.10	32.090	6.64	7.81	0.78	0.033	0.090	1.30	
HS973511	97350025	CAPE OMNEKY	06-Nov-97	20:51	56.002	132.710	10.25	31.91	31.896	9.83	16.93	1.08	0.071	0.180	1.32	
HS973512	97350027	CAPE OMNEKY	06-Nov-97	22:48	56.023	135.573	10.62	32.11	32.108	5.85	9.51	0.80	0.086	0.225	1.31	
HS973513	97350029	CAPE OMNEKY	07-Nov-97	01:03	56.050	135.380	10.29	31.95	31.966	9.04	15.27	1.01	0.079	0.185	1.34	
HS973514	97350031	CAPE CROSS	07-Nov-97	16:29	57.666	137.499	10.17	32.24	32.235	5.27	10.28	0.78	0.073	0.224	1.28	
HS973515	97350035	CAPE CROSS	07-Nov-97	18:04	57.702	137.410	10.15	32.19	32.202	5.90	10.13	0.81	0.092	0.248	1.31	
HS973516	97350037	CAPE CROSS	07-Nov-97	18:41	57.764	137.331	10.18	32.03	32.033	5.97	10.27	0.80	0.044	0.106	1.33	
HS973517	97350039	CAPE CROSS	07-Nov-97	22:10	57.817	137.063	10.47	31.99	31.984	5.70	9.52	0.72	0.059	0.186	1.27	
HS973518	97350041	CAPE CROSS	08-Nov-97	00:00	57.878	136.903	9.98	31.71	31.719	10.05	17.57	1.07	0.170	0.309	1.40	
HS9735CTD043	97350043	CAPE CROSS	08-Nov-97	01:39	57.941	136.797	9.68	31.35	31.387	9.87	18.55	0.97	0.110	0.231	1.36	
HS973519	97350045	CAPE CROSS	08-Nov-97	03:44	57.972	136.724	9.26	31.52	31.555	12.94	22.46	1.24	0.090	0.164	1.40	
HS9735CTD047	97350047	CAPE CROSS	08-Nov-97	10:19	57.493	138.185	9.63	32.11	32.097	4.95	9.59	0.76	0.077	0.176	1.34	
HS973520	97350049	CAPE CROSS	08-Nov-97	16:08	57.231	139.171	9.29	32.24	32.237	6.81	11.00	0.94	0.089	0.221	1.32	
HS973521	97350051	OFFSHORE	10-Nov-97	16:29	56.217	139.739	9.48	32.48	32.468	5.70	8.45	0.82	0.066	0.191	1.29	
HS973522	97350053	OFFSHORE	10-Nov-97	22:00	56.432	140.691	8.89	32.48	32.466	7.56	10.07	0.94	0.064	0.136	1.36	
HS973523	97350055	OFFSHORE	11-Nov-97	03:48	56.571	141.471	9.16	32.47	32.465	5.76	11.05	0.94	0.064	0.169	1.31	
HS973524	97350057	OFFSHORE	11-Nov-97	08:09	56.654	142.360	8.78	32.50	32.490	6.43	9.01	0.90	0.022	0.061	1.30	
HS973525	97350059	OFFSHORE	11-Nov-97	12:40	56.708	143.222	8.71	32.53	32.528	6.81	9.72	0.89	0.054	0.131	1.33	
HS973526	97350061	OFFSHORE	11-Nov-97	16:59	56.712	144.138	8.41	32.56	32.561	9.11	10.25	0.99	0.097	0.224	1.34	
HS973527	97350063	OFFSHORE	11-Nov-97	21:36	56.785	145.082	8.38	32.61	32.601	8.93	15.39	1.07	0.011	0.021	1.38	
HS973528	97350065	CAPE CHINIAK	12-Nov-97	03:39	56.834	145.878	8.12	32.59	32.620	10.16	17.74	1.11	0.043	0.107	1.33	
HS9735CTD071	97350071	OFFSHORE	12-Nov-97	09:01	56.627	146.943	8.00	32.56	32.542	8.23	13.13	1.01	0.086	0.155	1.40	
HS973529	97350073	CAPE CHINIAK	12-Nov-97	13:46	56.417	148.001	7.85	32.48	32.476	13.80	12.71	0.77	0.088	0.231	1.31	
HS973530	97350075	CAPE CHINIAK	12-Nov-97	16:54	56.489	148.287	7.86	32.50	32.504	8.74	14.98	1.03	0.067	0.135	1.38	
HS973531	97350077	CAPE CHINIAK	12-Nov-97	19:36	56.565	148.561	7.98	32.45	32.446	9.92	15.56	1.10	0.076	0.178	1.34	
HS973532	97350079	KODIAK ISLAND	12-Nov-97	23:29	56.645	148.815	7.71	32.30	32.296	11.31	17.41	1.21	0.084	0.239	1.32	
HS973534	97350081	KODIAK ISLAND	13-Nov-97	03:46	56.755	149.162	7.75	32.43	32.429	10.03	14.43	1.04	0.095	0.223	1.34	
HS973535	97350083	KODIAK ISLAND	13-Nov-97	05:16	56.801	149.382	7.67	32.38	32.389	11.30	17.53	1.20	0.092	0.198	1.36	
HS973536	97350085	KODIAK ISLAND	13-Nov-97	07:03	56.878	149.648	7.13	32.34	32.336	14.49	21.41	1.39	0.157	0.246	1.44	
HS973537	97350087	KODIAK ISLAND	13-Nov-97	09:02	56.953	149.924	7.70	32.38	32.375	11.45	17.01	0.94	0.102	0.220	1.36	
HS973538	97350089	KODIAK ISLAND	13-Nov-97	10:48	57.024	150.206	8.33	32.23	32.337	7.69	12.76	0.94	0.066	0.153	1.34	
HS973539	97350091	KODIAK ISLAND	13-Nov-97	12:21	57.098	150.479	8.30	32.40	32.394	8.55	13.19	1.06	0.084	0.177	1.36	
HS973540	97350093	KODIAK ISLAND	13-Nov-97	13:58	57.168	150.750	7.39	32.19	32.180	12.44	18.66	1.24	0.069	0.118	1.42	
HS973541	97350095	KODIAK ISLAND	13-Nov-97	15:03	57.208	150.879	8.15	32.29	32.282	9.44	12.92	1.05	0.094	0.230	1.33	

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	CTD Filename	Transect	Region	Date	Time UTC	Latitude (°N)	Longitude (°W)	SST (°C)	SSS (ppt)	SSS Bottle (ppt)	NO ₃ (μmol/L)	SiO ₄ (μmol/L)	PO ₄ (μmol/L)	Chlorophyll a (μg/L)	Phaeophytin (μg/L)	Fo / Fa
HS973533	97350097	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	17:09	57.251	151.010	8.23	32.33	32.314	8.96	11.58	0.95	0.133	0.259	1.38
HS973534	97350099	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	18:44	57.283	151.138	6.77	31.98	31.977	13.71	21.10	1.37	0.123	0.194	1.44
HS973535	97350101	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	20:50	57.315	151.283	6.86	31.97	31.967	13.33	21.11	1.35	0.017	0.044	1.32
HS973536	97350103	CAPE CHINIAK	KODIAK ISLAND	13-Nov-97	23:21	57.351	151.423	7.03	31.68	31.678	10.74	17.62	1.29	0.063	0.121	1.38
HS973537	97350105	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	02:06	57.389	151.565	7.04	31.66	31.653	10.11	15.21	1.19	0.080	0.156	1.38
HS9735CTD107	97350107	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	04:38	57.430	151.702	6.98	31.64	31.643	11.04	18.74	1.28	0.069	0.168	1.33
HS9735CTD109	97350109	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	05:28	57.469	151.846	7.15	31.91	31.896	8.70	13.04	1.01	0.118	0.253	1.36
HS9735CTD111	97350111	CAPE CHINIAK	KODIAK ISLAND	14-Nov-97	06:17	57.507	151.989	6.97	31.78	31.769	9.76	10.52	1.28	0.110	0.259	1.34
HS973545	97350113	CAPE CHINIAK	KODIAK ISLAND	15-Nov-97	14:01	57.252	150.537	8.34	32.35	32.347	9.01	14.60	0.99	0.058	0.134	1.34
HS9735CTD117	97350117	CAPE CHINIAK	KODIAK ISLAND	15-Nov-97	17:01	57.303	150.704	8.15	32.27	32.259	10.82	15.67	1.12	0.113	0.217	1.39
HS973546	97350119	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	18:46	55.597	157.145	6.70	31.41	31.407	10.35	16.45	0.99	0.133	0.182	1.48
HS973547	97350121	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	20:23	55.531	157.086	6.61	31.14	31.123	9.53	15.30	0.93	0.109	0.138	1.50
HS973548	97350123	MITROFANIA ISLAND	ALASKA PENINSULA	19-Nov-97	22:12	55.438	157.003	6.67	31.03	31.039	9.69	15.71	1.06	0.100	0.132	1.49
HS973549	97350125	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	00:06	55.355	156.924	7.04	31.14	31.131	9.47	15.70	1.02	0.131	0.192	1.46
HS973550	97350127	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	02:39	55.217	156.842	7.33	31.30	31.291	10.53	14.76	1.05	0.094	0.180	1.39
HS973551	97350129	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	04:24	55.108	156.779	6.98	31.60	31.504	11.27	16.04	1.00	0.235	0.219	1.59
HS973556	97350131	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	05:34	55.039	156.666	7.18	32.08	32.070	8.71	12.83	1.10	0.239	0.383	1.43
HS973555	97350133	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	07:15	54.936	156.591	7.30	32.32	32.311	8.71	11.97	1.04	0.134	0.265	1.38
HS973554	97350135	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	08:49	54.858	156.552	7.44	32.35	32.345	8.43	12.03	1.01	0.157	0.274	1.41
HS973553	97350137	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	10:06	54.788	156.472	7.44	32.36	32.349	6.78	9.40	0.99	0.168	0.288	1.42
HS973552	97350139	MITROFANIA ISLAND	ALASKA PENINSULA	20-Nov-97	11:42	54.700	156.395	7.32	32.50	32.499	8.67	12.83	1.06	0.162	0.235	1.46
HS973558	97350141	SHUMAGIN ISLANDS	ALASKA PENINSULA	23-Nov-97	22:02	55.317	158.842	6.26	31.37	31.358	9.26	13.33	1.09	0.514	0.537	1.55
HS9735CTD143	97350143	SHUMAGIN ISLANDS	ALASKA PENINSULA	23-Nov-97	23:38	55.246	158.738	6.70	31.36	31.352	9.23	12.75	1.08	0.164	0.208	1.50
HS973555	97350145	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	00:30	55.181	158.635	6.72	31.28	31.281	9.38	13.03	1.09	0.202	0.209	1.56
HS973559	97350147	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	01:10	55.140	158.544	6.67	31.45	31.453	9.88	13.67	1.10	0.188	0.264	1.47
HS9735CTD149	97350149	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	02:44	55.070	158.436	6.64	31.35	31.350	9.66	14.31	1.12	0.104	0.104	1.40
HS9735CTD151	97350151	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	03:27	54.919	158.348	6.59	31.32	31.313	8.10	11.43	1.15	0.113	0.150	1.49
HS973556	97350153	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	05:26	54.952	158.142	6.63	31.22	31.214	10.09	16.07	1.06	0.107	0.171	1.44
HS9735CTD155	97350155	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	06:12	54.901	158.086	6.61	31.18	31.186	11.47	16.28	0.98	0.094	0.168	1.41
HS9735CTD157	97350157	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	07:08	54.837	158.001	6.61	31.17	31.167	9.03	14.41	1.13	0.114	0.182	1.43
HS9735CTD159	97350159	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	08:05	54.763	157.887	6.46	31.20	31.184	10.21	16.04	1.09	0.096	0.138	1.47
HS97350161	97350161	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	09:21	54.712	157.759	6.72	31.93	31.920	10.40	15.66	1.16	0.141	0.215	1.45
HS97350163	97350163	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	10:52	54.652	157.637	6.95	32.25	32.247	11.59	17.38	1.18	0.236	0.345	1.46
HS97350166	97350166	SHUMAGIN ISLANDS	ALASKA PENINSULA	24-Nov-97	20:20	54.525	157.400	6.92	32.39	32.375	7.06	10.11	0.97	0.160	0.362	1.35
HS973561	97350168	SANAK BANK	ALASKA PENINSULA	01-Dec-97	18:51	54.362	161.826	6.23	31.48	31.457	9.33	12.95	1.00	0.118	0.186	1.44
HS973562	97350170	SANAK BANK	ALASKA PENINSULA	01-Dec-97	19:34	54.316	161.742	6.23	31.50	31.455	8.96	12.25	0.99	0.108	0.187	1.41
HS9735CTD172	97350172	SANAK BANK	ALASKA PENINSULA	01-Dec-97	21:11	54.255	161.587	6.26	31.65	31.526	10.37	14.51	1.08	0.102	0.166	1.43
HS973563	97350174	SANAK BANK	ALASKA PENINSULA	01-Dec-97	21:56	54.199	161.487	6.43	31.73	31.654	3.71	4.76	1.13	0.078	0.131	1.42
HS973567	97350176	SANAK BANK	ALASKA PENINSULA	02-Dec-97	04:26	53.905	160.881	6.07	31.96	31.958	10.24	14.89	1.16	0.184	0.310	1.42
HS973566	97350178	SANAK BANK	ALASKA PENINSULA	02-Dec-97	06:05	53.966	161.027	5.94	31.73	31.726	9.66	14.56	1.20	0.174	0.275	1.44
HS973565	97350180	SANAK BANK	ALASKA PENINSULA	02-Dec-97	07:17	54.033	161.145	6.05	31.50	31.511	10.30	14.20	1.18	0.152	0.207	1.48
HS973564	97350182	SANAK BANK	ALASKA PENINSULA	02-Dec-97	08:26	54.085	161.286	6.23	31.59	31.589	10.99	14.69	1.18	0.152	0.216	1.47
HS9735CTD184	97350184	SANAK BANK	ALASKA PENINSULA	02-Dec-97	09:32	54.142	161.383	6.25	31.49	31.562	11.15	14.40	1.12	0.083	0.137	1.43
HS9735CTD186	97350186	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	07:16	58.750	152.132	6.73	31.99	32.022	11.68	17.37	1.27	0.062	0.132	1.36
HS9735CTD188	97350188	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	08:31	58.726	151.816	6.86	31.92	31.914	12.35	19.00	1.25	0.019	0.045	1.34

Table 3. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	CTD Filename	Transect	Region	Date	Time UTC	Latitude (°N)	Longitude (°W)	SST (°C)	SSS (ppt)	SSS Bottle (ppt)	NO ₃ (μmol/L)	SiO ₄ (μmol/L)	PO ₄ (μmol/L)	Chlorophyll a (μg/L)	Phaeophytin (μg/L)	Fo / Fa
HS9735CTD190	97350190	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	09:53	58.700	151.481	7.09	31.98	31.964	10.66	16.30	1.25	0.058	0.125	1.36
HS9735CTD192	97350192	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	11:28	58.669	151.142	6.82	32.15	32.141	12.87	18.63	1.25	0.064	0.100	1.44
HS9735CTD194	97350194	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	12:59	58.646	150.823	6.67	32.25	32.245	11.74	16.92	1.27	0.063	0.106	1.42
HS9735CTD196	97350196	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	14:32	58.631	150.515	6.66	32.27	32.255	12.94	18.55	1.28	0.064	0.120	1.39
HS9735CTD198	97350198	KODIAK ISLAND	KODIAK ISLAND	04-Dec-97	16:47	58.336	142.092	8.03	32.45	32.439	6.39	8.30	0.92	0.061	0.122	1.38
HS9735CTD200	97350200	OFFSHORE	OFFSHORE	06-Dec-97	21:06	58.283	141.270	7.76	32.33	32.325	7.86	11.12	0.99	0.072	0.162	1.35
HS9735CTD202	97350202	CAPE SPENCER	S.E. ALASKA	07-Dec-97	17:31	58.208	139.023	9.02	31.72	31.703	13.05	21.44	1.25	0.021	0.055	1.31
HS9735CTD204	97350204	CAPE SPENCER	S.E. ALASKA	07-Dec-97	19:04	58.188	138.737	9.01	31.64	31.624	14.09	23.72	1.32	0.019	0.049	1.32
HS9735CTD206	97350206	CAPE SPENCER	S.E. ALASKA	07-Dec-97	20:30	58.163	138.415	8.91	31.61	31.599	13.07	22.36	1.28	0.026	0.059	1.35
HS973568	97350208	CAPE SPENCER	S.E. ALASKA	07-Dec-97	21:55	58.160	138.083	8.88	31.73	31.714	9.73	16.03	1.26	0.022	0.052	1.34
HS973569	97350210	CAPE SPENCER	S.E. ALASKA	07-Dec-97	23:54	58.154	137.777	9.24	32.02	31.998	11.87	19.72	1.21	0.056	0.116	1.37
HS973570	97350212	CAPE SPENCER	S.E. ALASKA	08-Dec-97	01:26	58.151	137.514	9.20	31.91	31.898	12.95	21.42	1.26	0.031	0.066	1.36
HS9735CTD14	97350214	CAPE SPENCER	S.E. ALASKA	08-Dec-97	03:26	58.128	137.130	8.80	31.63	31.616	13.59	23.68	1.31	0.031	0.066	1.36
HS9735CTD16	97350216	CAPE SPENCER	S.E. ALASKA	08-Dec-97	04:41	58.119	136.830	7.63	31.35	31.335	18.88	32.09	1.45	0.033	0.080	1.33

Table 4. Zooplankton data from bongo tows collected on the W.E. Ricker survey to the Gulf of Alaska, November 1 - December 12, 1997.

Station ID	Transect	Region	Latitude (°N)	Longitude (°W)	Time PST	Bottom Depth (m)	Target Depth (m)	Tow Duration	Wire Angle (°)	Volume Seived (m³)	Plankton Weights by Size Fraction (g dry / 1000 m³)			
											8.0 mm	1.7 mm	1.0 mm	0.25 mm
HS973501	CAPE OMMENEY	S.E. ALASKA	55.987	134.573	05-Nov-97	08:05	191	150	0:08	30	173	77	9.83	0.00
HS973502	CAPE OMMENEY	S.E. ALASKA	55.987	134.723	05-Nov-97	10:00	195	150	0:07	30	173	129	0.70	1.01
HS973503	CAPE OMMENEY	S.E. ALASKA	56.003	134.843	05-Nov-97	11:34	205	150	0:11	25	165	140	8.86	0.79
HS973504	CAPE OMMENEY	S.E. ALASKA	56.025	134.948	05-Nov-97	13:41	210	150	0:19	45	212	223	N/A	N/A
HS973505	CAPE OMMENEY	S.E. ALASKA	56.030	135.095	05-Nov-97	15:48	278	150	0:16	43	212	643	0.52	0.00
HS973506	CAPE OMMENEY	S.E. ALASKA	55.985	136.198	06-Nov-97	07:03	2,702	150	0:09	45	212	135	8.37	0.22
HS973508	CAPE OMMENEY	S.E. ALASKA	55.983	136.068	06-Nov-97	08:26	2,600	150	0:18	40	195	315	0.38	0.76
HS973510	CAPE OMMENEY	S.E. ALASKA	55.990	135.857	06-Nov-97	10:55	2,300	150	0:12	45	212	225	0.09	1.38
HS973511	CAPE OMMENEY	S.E. ALASKA	56.007	135.707	06-Nov-97	13:25	1,626	150	0:17	35	183	193	0.41	0.21
HS973512	CAPE OMMENEY	S.E. ALASKA	56.028	135.568	06-Nov-97	15:16	992	150	0:21	40	195	258	1.13	0.85
HS973513	CAPE OMMENEY	S.E. ALASKA	56.052	135.377	06-Nov-97	17:18	426	150	0:15	30	173	210	1.14	3.71
HS973516	CAPE CROSS	S.E. ALASKA	57.770	137.328	07-Nov-97	12:19	595	150	0:15	35	183	177	2.66	0.40
HS973517	CAPE CROSS	S.E. ALASKA	57.820	137.960	07-Nov-97	14:27	486	150	0:15	33	179	105	6.31	0.19
HS973518	CAPE CROSS	S.E. ALASKA	57.882	136.898	07-Nov-97	16:18	449	150	0:20	33	179	299	16.35	1.37
HS973519	CAPE CROSS	S.E. ALASKA	57.973	136.712	07-Nov-97	19:29	199	100	0:10	37	110	109	17.70	3.58
HS973521	OFFSHORE	OFFSHORE	56.218	139.737	10-Nov-97	09:10	3,418	150	0:13	45	212	110	165.34	30.56
HS973522	OFFSHORE	OFFSHORE	56.427	140.883	10-Nov-97	14:48	3,613	150	0:22	50	233	307	13.26	17.78
HS973523	OFFSHORE	OFFSHORE	56.578	141.472	10-Nov-97	19:26	3,603	150	0:16	25	165	163	2.52	0.25
HS973524	OFFSHORE	OFFSHORE	56.792	145.093	11-Nov-97	14:16	3,936	150	0:16	35	183	117	2.65	39.18
HS973525	OFFSHORE	KODIAK ISLAND	56.838	145.883	11-Nov-97	19:24	4,013	150	0:14	40	195	142	3.25	37.23
HS973526	CAPE CHINAK	KODIAK ISLAND	56.403	148.037	12-Nov-97	06:58	4,091	150	0:14	40	195	203	3.80	8.39
HS973527	CAPE CHINAK	KODIAK ISLAND	56.488	148.288	12-Nov-97	09:30	4,171	150	0:20	58	280	244	0.94	4.43
HS973528	CAPE CHINAK	KODIAK ISLAND	56.565	148.557	12-Nov-97	12:13	4,207	150	0:12	30	173	159	2.52	0.50
HS973529	CAPE CHINAK	KODIAK ISLAND	56.643	148.805	12-Nov-97	16:04	4,408	150	0:18	50	233	243	1.03	0.12
HS973530	CAPE CHINAK	KODIAK ISLAND	57.207	150.882	13-Nov-97	07:21	274	150	0:17	50	233	219	10.62	4.44
HS973532	CAPE CHINAK	KODIAK ISLAND	57.252	151.015	13-Nov-97	09:20	164	110	0:10	50	180	163	8.15	17.47
HS973533	CAPE CHINAK	KODIAK ISLAND	57.287	151.145	13-Nov-97	10:55	175	80	0:07	45	100	136	0.15	2.95
HS973534	CAPE CHINAK	KODIAK ISLAND	57.317	151.293	13-Nov-97	13:02	175	140	0:13	40	182	257	9.21	0.31
HS973535	CAPE CHINAK	KODIAK ISLAND	57.020	150.193	14-Nov-97	10:19	1,909	150	0:14	30	173	146	6.12	1.10
HS973536	CAPE CHINAK	KODIAK ISLAND	56.943	149.913	14-Nov-97	12:16	2,676	150	0:20	45	212	219	31.12	3.15
HS973537	CAPE CHINAK	KODIAK ISLAND	56.863	149.655	14-Nov-97	14:02	3,980	150	0:15	50	233	228	0.53	4.26
HS973538	CAPE CHINAK	KODIAK ISLAND	56.792	149.388	14-Nov-97	15:55	4,686	150	0:10	45	212	185	2.60	4.33
HS973539	CAPE CHINAK	KODIAK ISLAND	56.720	149.115	14-Nov-97	18:05	4,131	150	0:15	35	183	160	1.32	26.57
HS973540	CAPE CHINAK	KODIAK ISLAND	57.245	150.515	15-Nov-97	07:05	517	150	0:22	55	261	275	5.46	9.07
HS973541	MITROFANIA ISLAND	ALASKA PENINSULA	55.598	157.145	19-Nov-97	10:58	147	60	0:06	30	69	52	13.27	11.16
HS973542	MITROFANIA ISLAND	ALASKA PENINSULA	55.533	157.083	19-Nov-97	12:37	139	70	0:06	30	80	59	0.85	2.90
HS973543	MITROFANIA ISLAND	ALASKA PENINSULA	55.438	157.000	19-Nov-97	14:22	122	70	0:08	45	99	72	12.04	1.82
HS973544	MITROFANIA ISLAND	ALASKA PENINSULA	55.353	156.922	19-Nov-97	16:15	125	80	0:05	25	88	25	101.54	6.72
HS973545	MITROFANIA ISLAND	ALASKA PENINSULA	54.667	156.445	20-Nov-97	07:10	2,675	150	0:13	45	212	183	0.00	16.70
HS973546	MITROFANIA ISLAND	ALASKA PENINSULA	54.773	156.477	20-Nov-97	09:06	2,015	150	0:13	44	210	147	25.55	8.49
HS973547	MITROFANIA ISLAND	ALASKA PENINSULA	55.037	156.655	21-Nov-97	08:30	971	150	0:13	42	200	149	0.87	4.42
HS973548	MITROFANIA ISLAND	ALASKA PENINSULA	55.317	158.840	23-Nov-97	12:15	159	150	0:11	30	173	218	2.19	0.96
HS973549	SHUMAGIN ISLANDS	ALASKA PENINSULA	55.137	158.542	23-Nov-97	15:26	205	150	0:13	40	195	295	10.00	6.00
HS973550	SHUMAGIN ISLANDS	ALASKA PENINSULA	54.943	158.142	23-Nov-97	19:14	148	140	0:09	35	170	121	1.48	31.31
HS973560	SHUMAGIN ISLANDS	ALASKA PENINSULA											0.08	0.16

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Fishing Stations

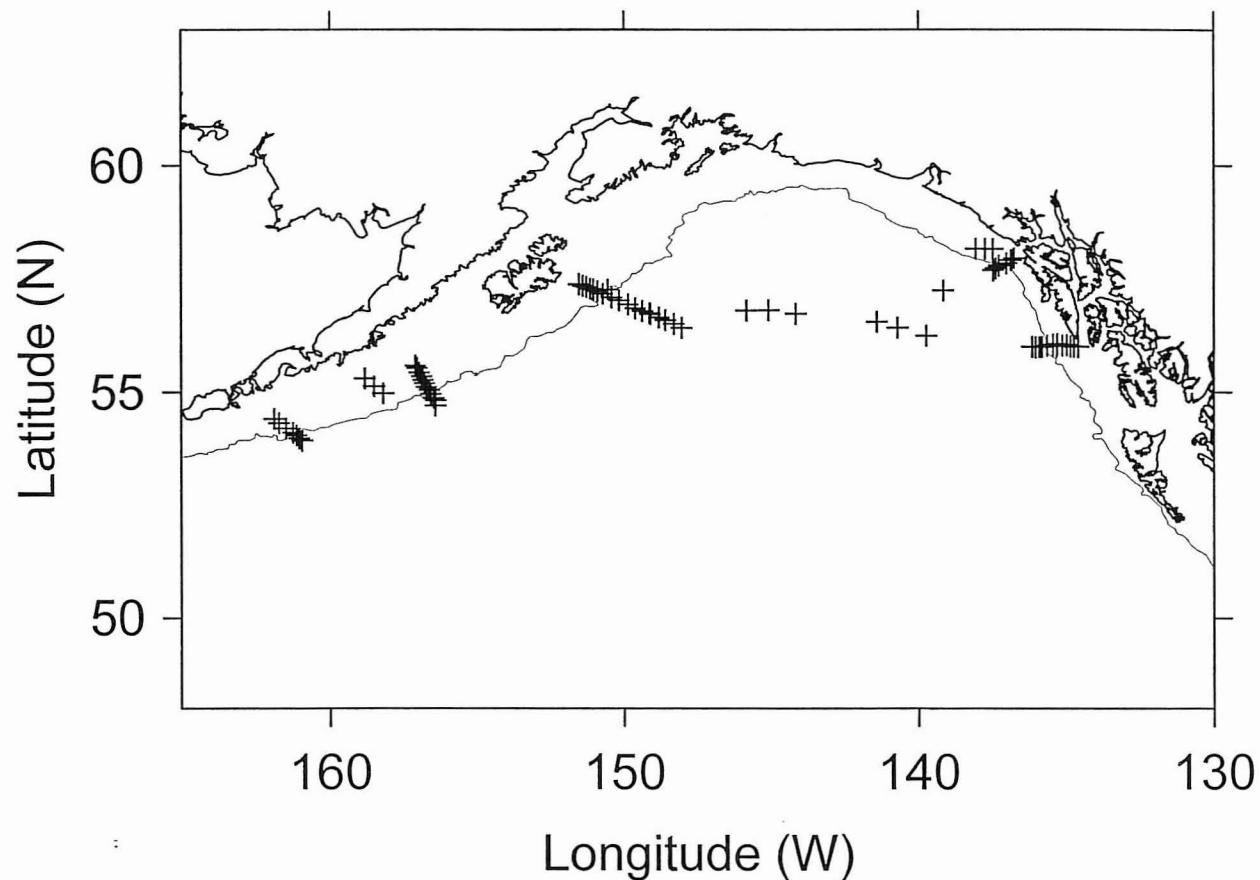


Figure 1. Fishing stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Oceanographic Stations

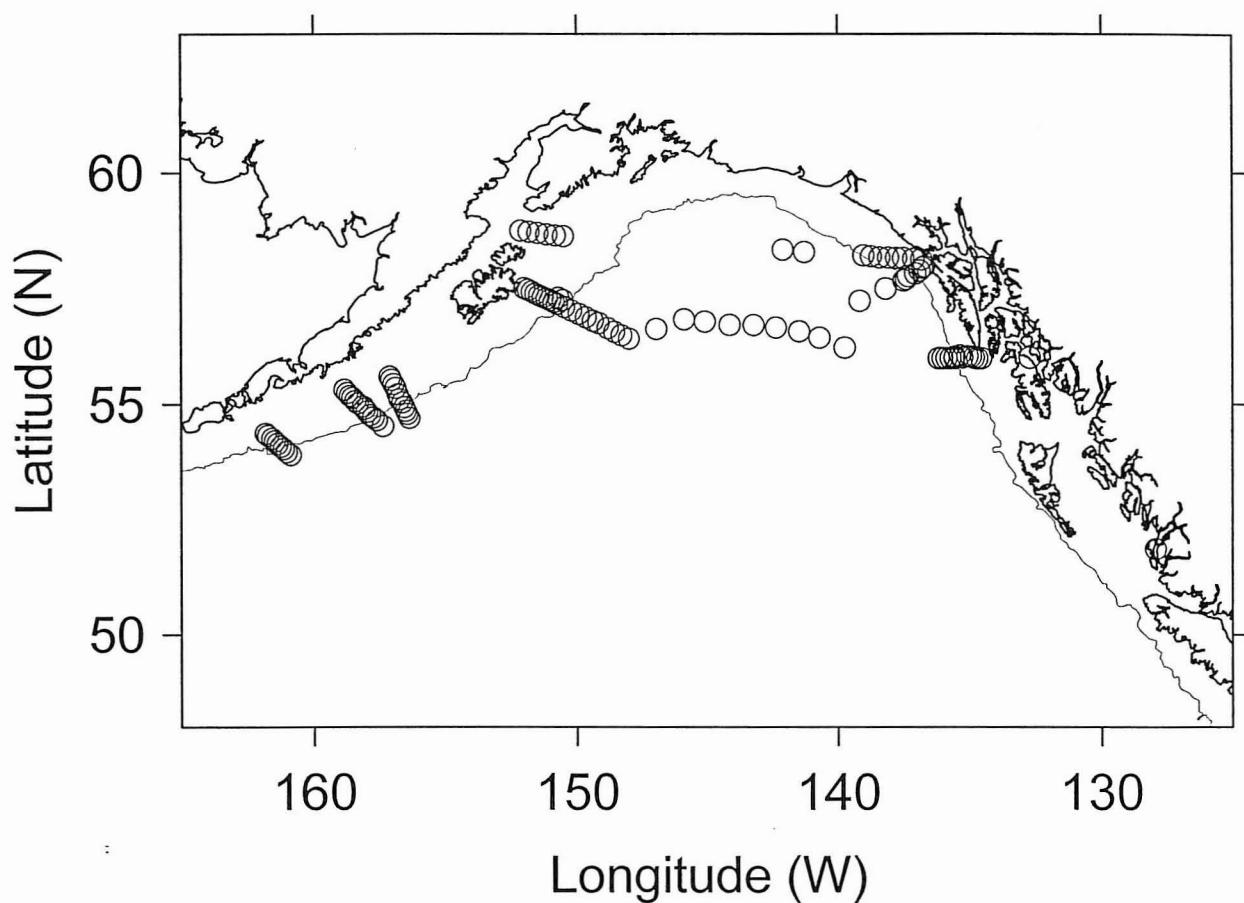


Figure 2. Oceanographic stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Zooplankton Stations

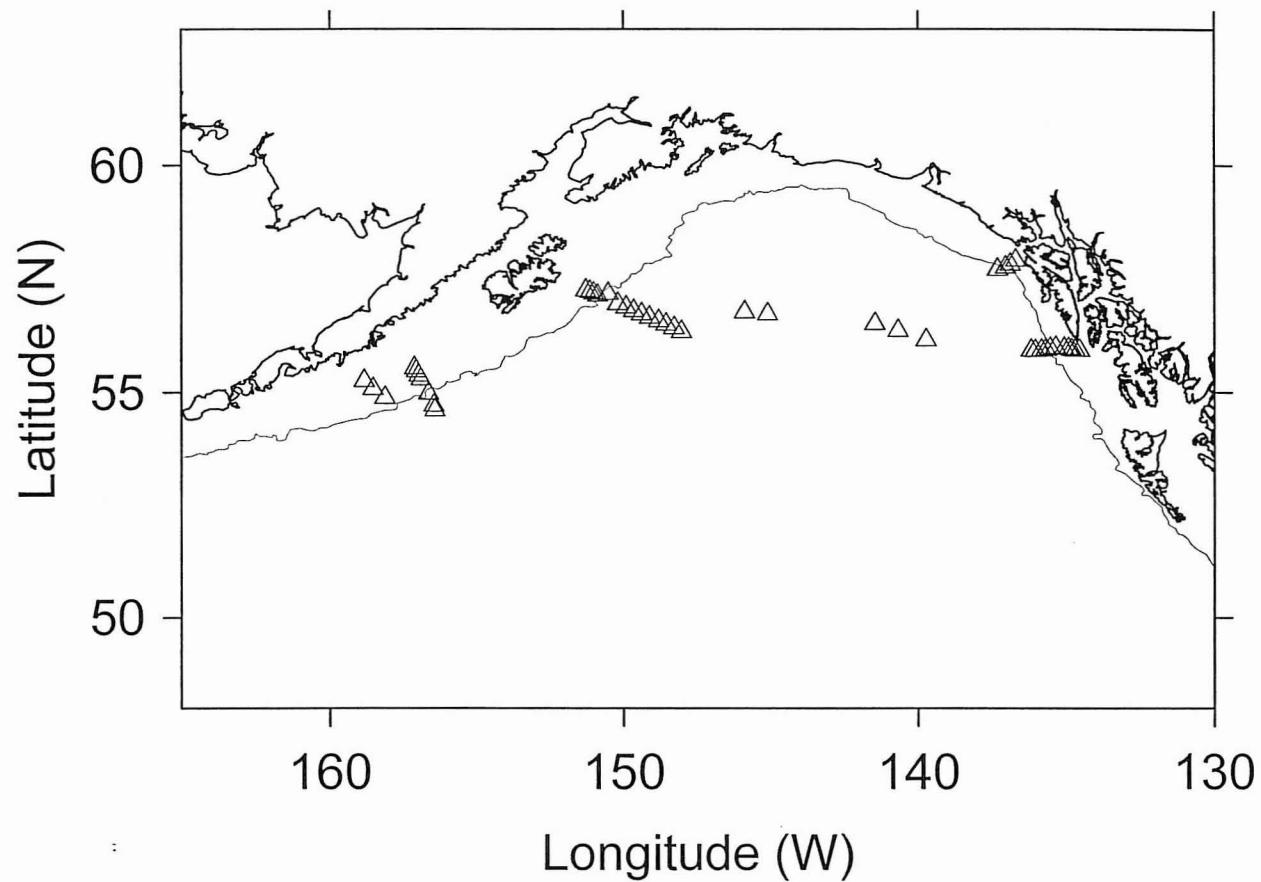


Figure 3. Zooplankton stations completed on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 to December 12, 1997.

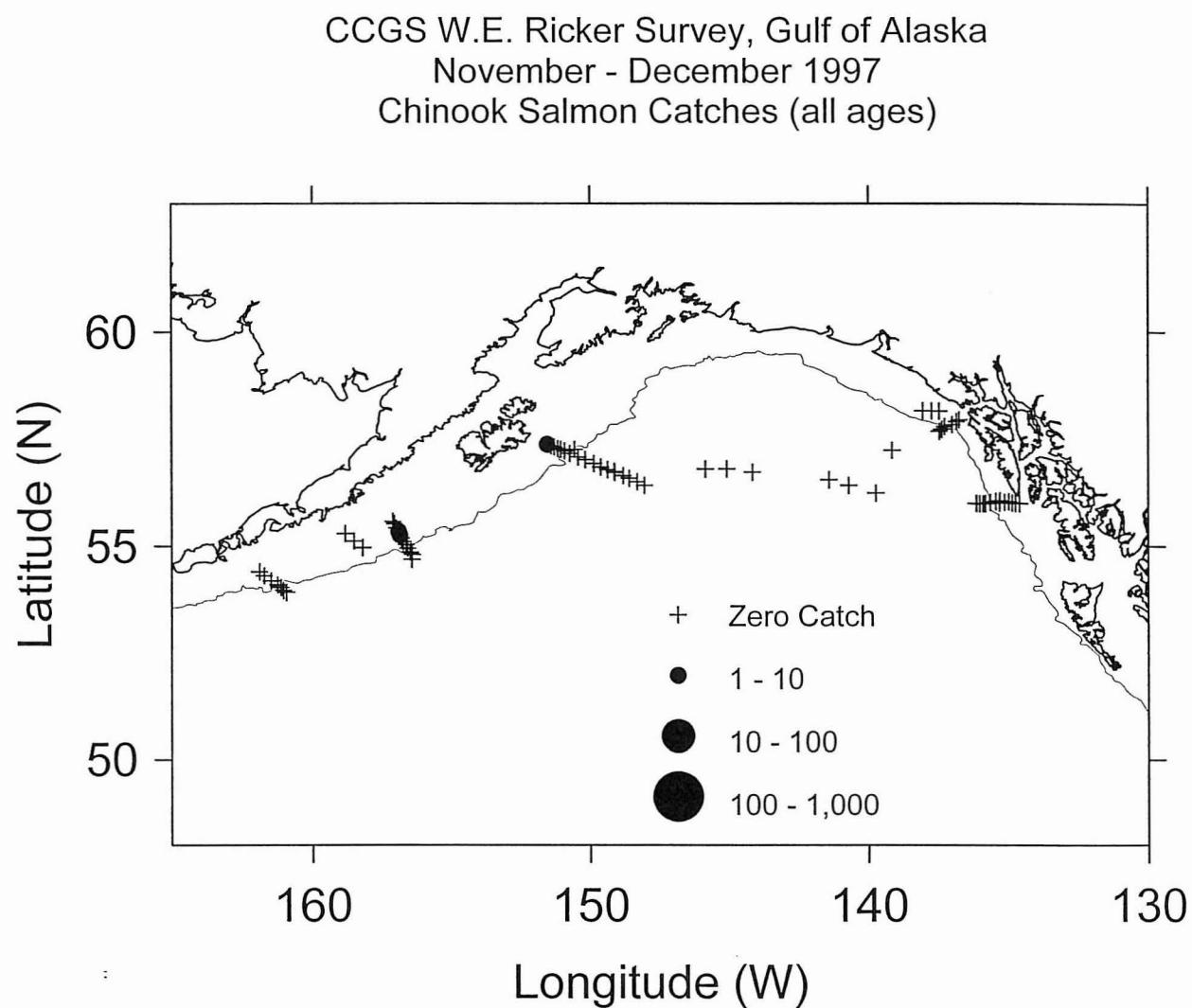


Figure 4. Summary of chinook salmon (all ages) catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Juvenile Chum Salmon Catches

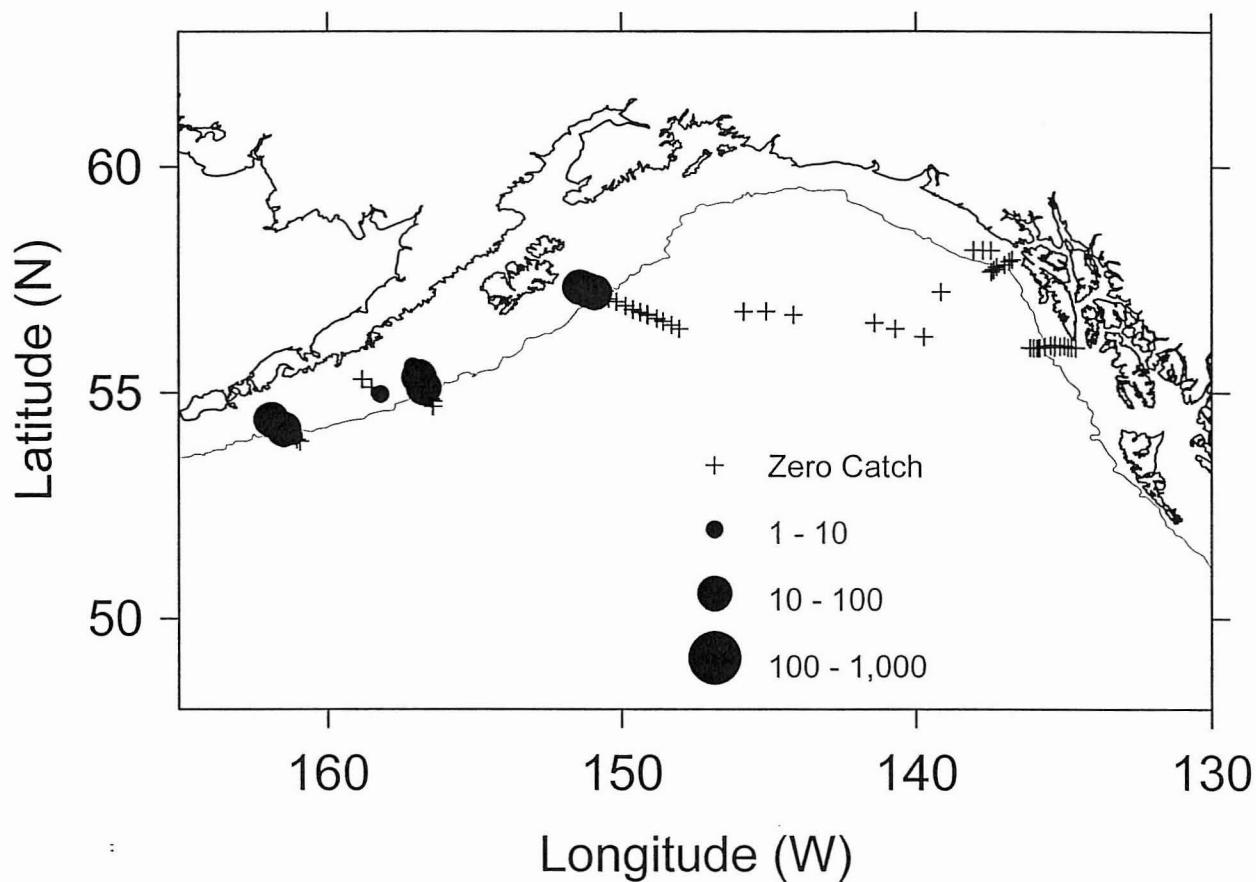


Figure 5. Summary of juvenile (age .0+) chum salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

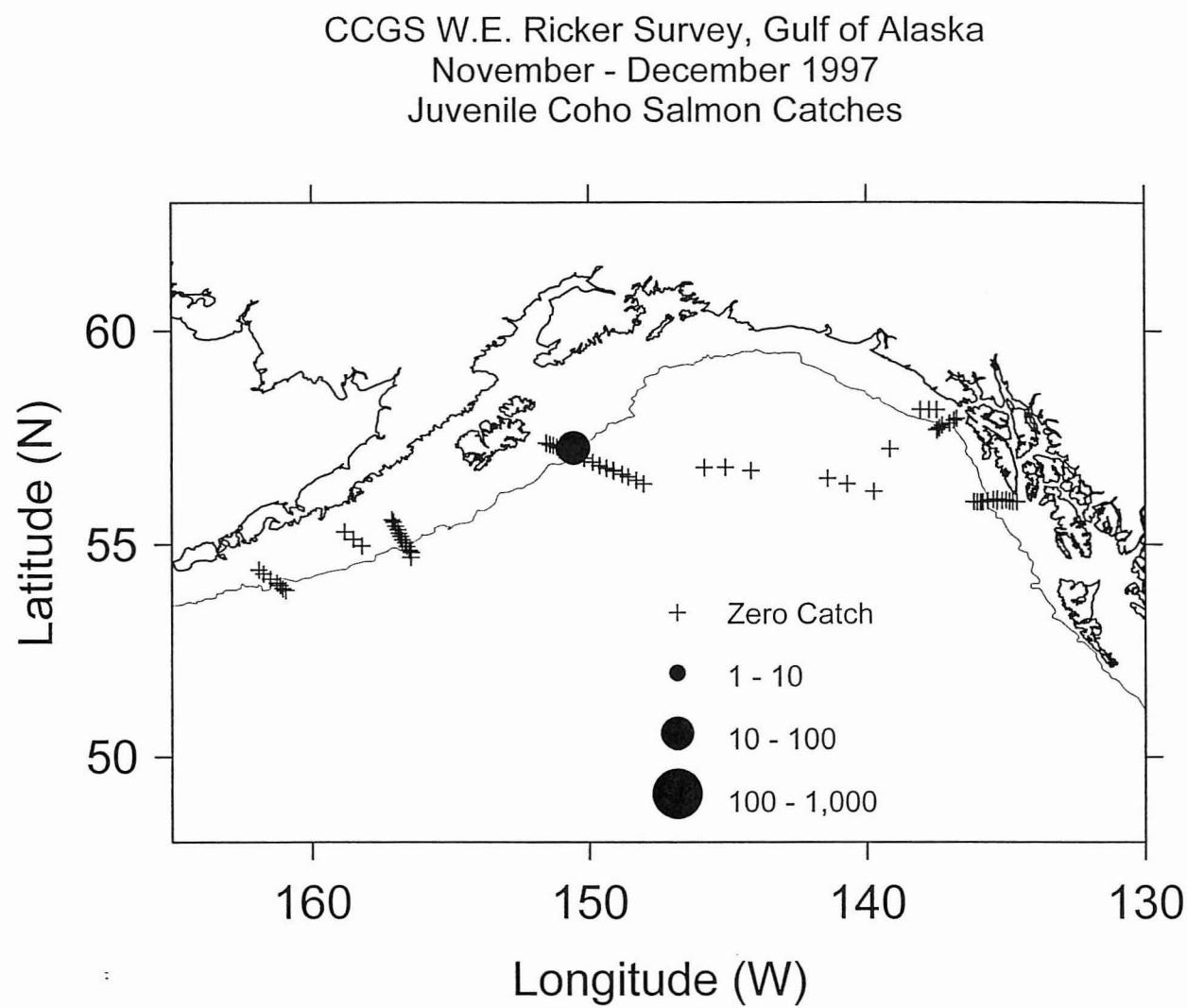


Figure 6. Summary of juvenile (age .0+) coho salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Juvenile Pink Salmon Catches

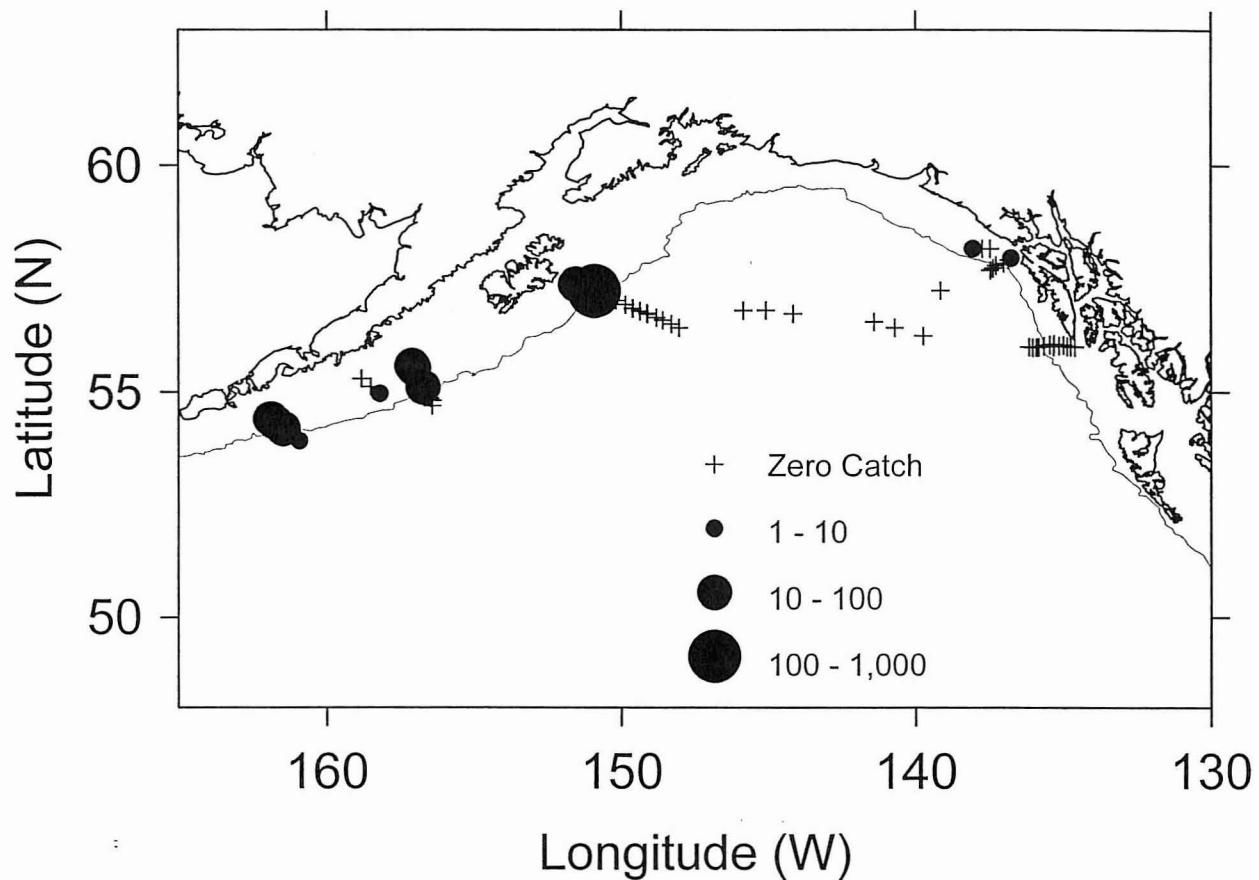


Figure 7. Summary of juvenile (age .0+) pink salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Juvenile Sockeye Salmon Catches

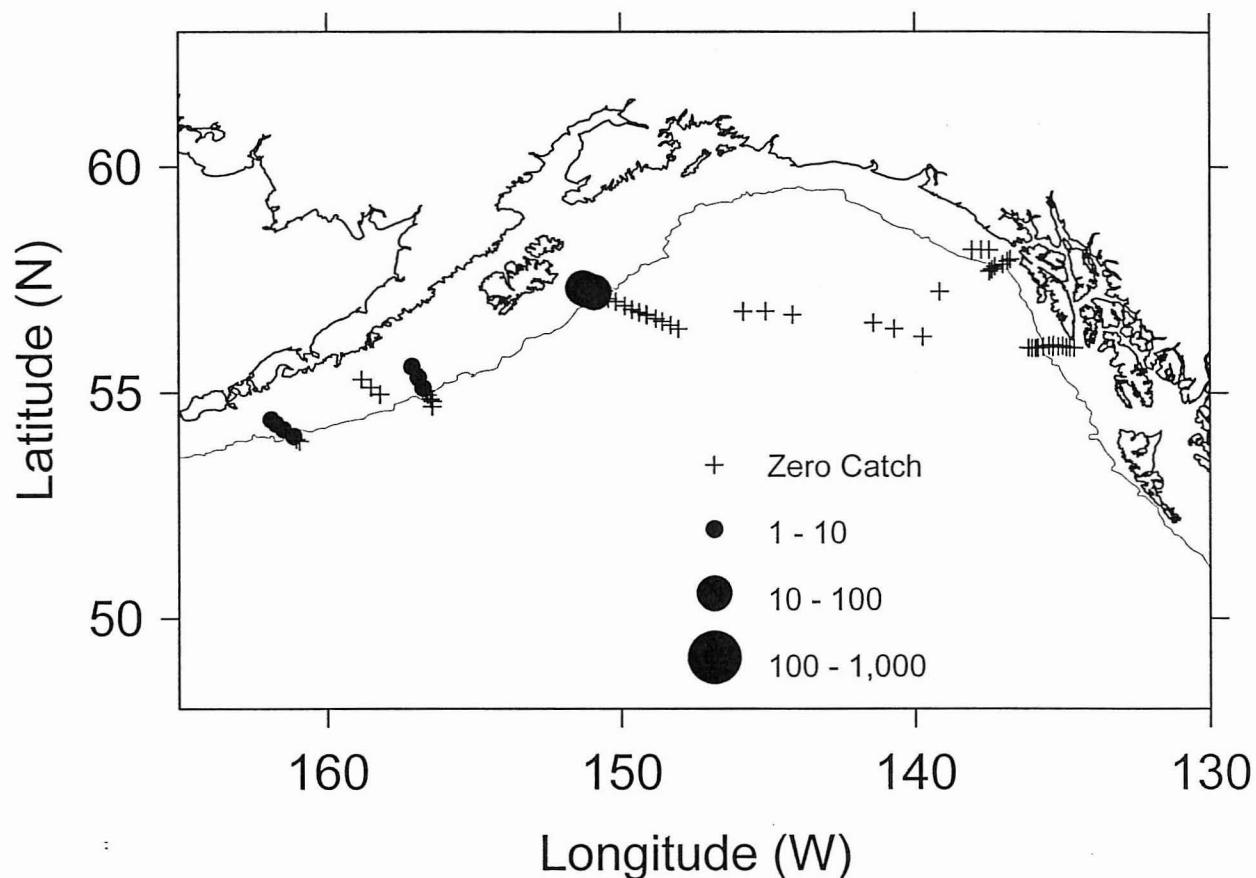


Figure 8. Summary of juvenile (age .0+) sockeye salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Adult Chum Salmon Catches

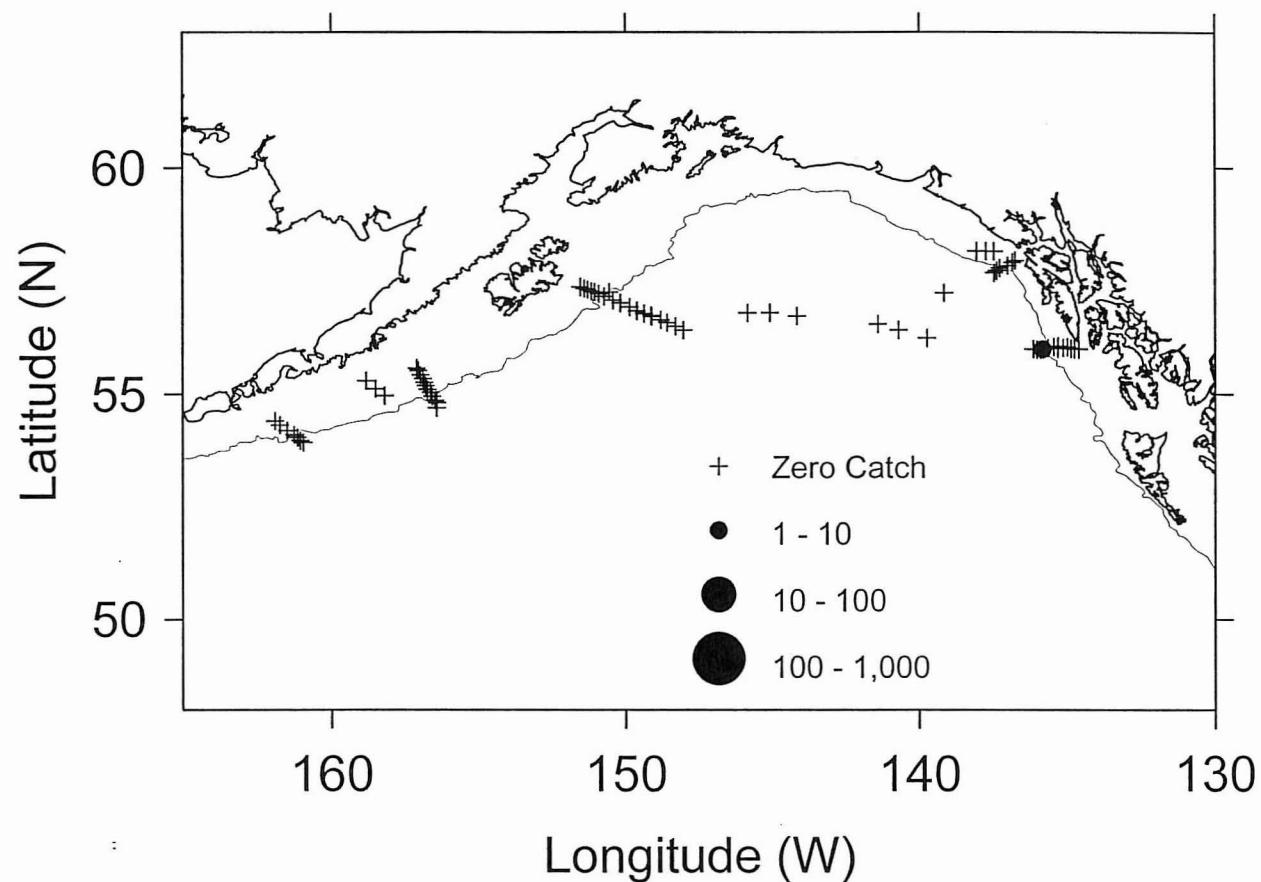


Figure 9. Summary of adult (age .1+ and older) chum salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Adult Coho Salmon Catches

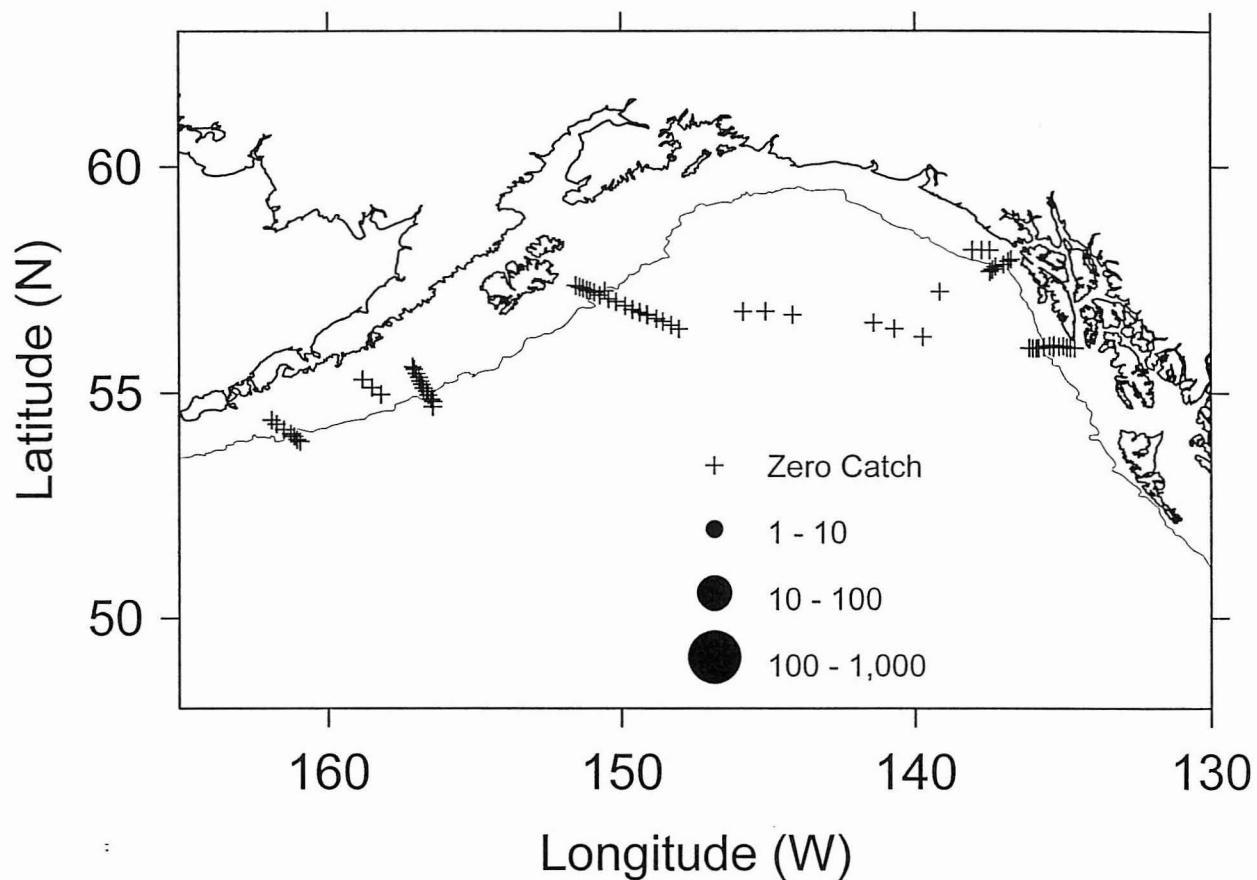


Figure 10. Summary of adult (age .1+ and older) coho salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Adult Pink Salmon Catches

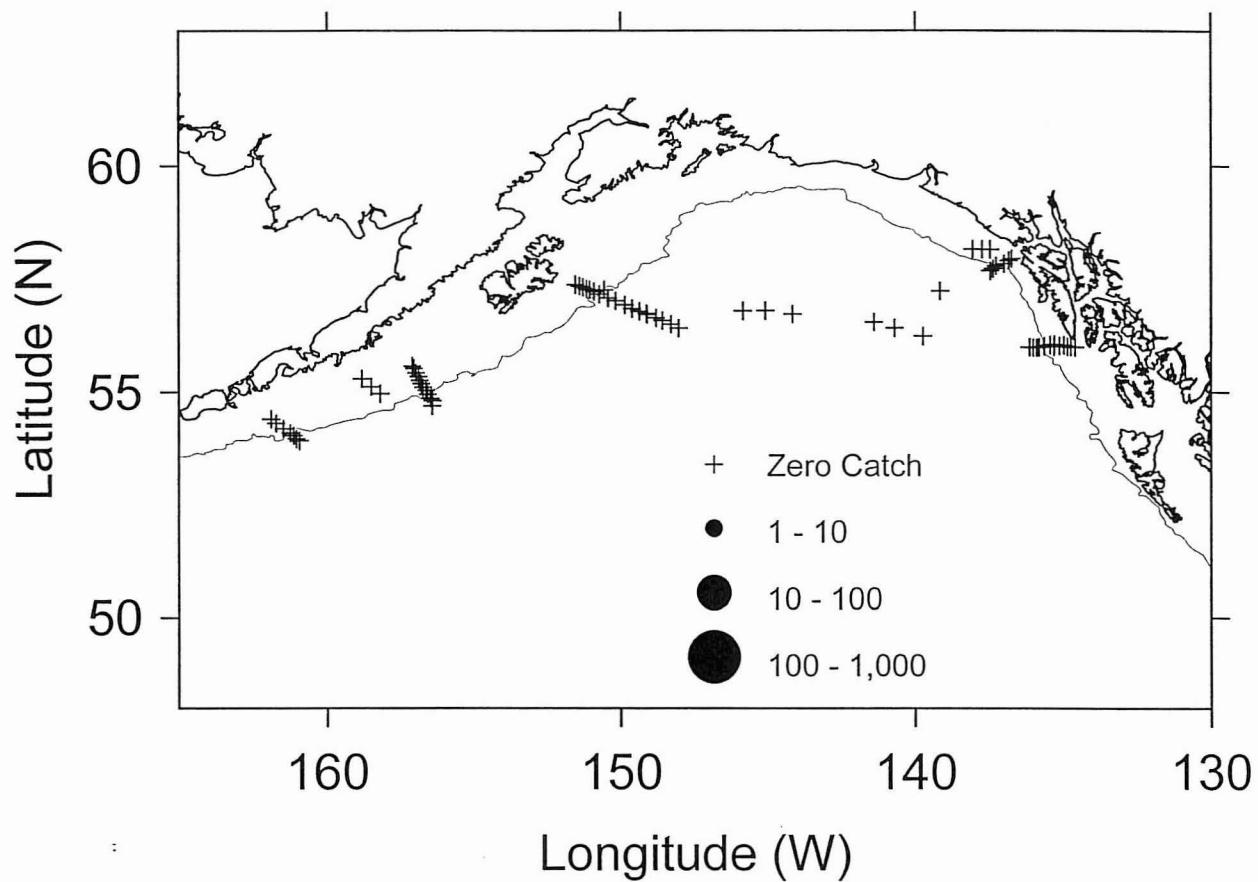


Figure 11. Summary of adult (age .1+ and older) pink salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

CCGS W.E. Ricker Survey, Gulf of Alaska
November - December 1997
Adult Sockeye Salmon Catches

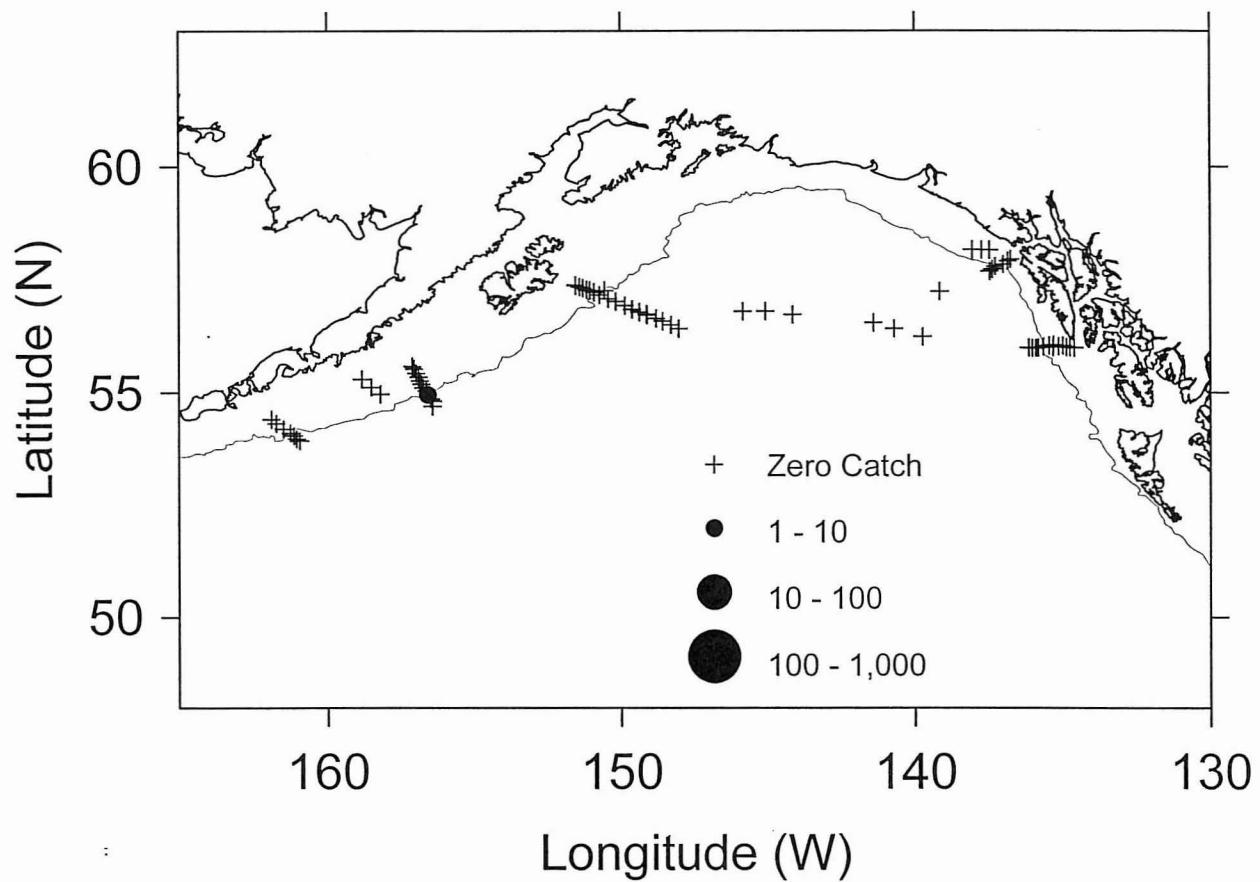


Figure 12. Summary of adult (age .1+ and older) sockeye salmon catches on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.

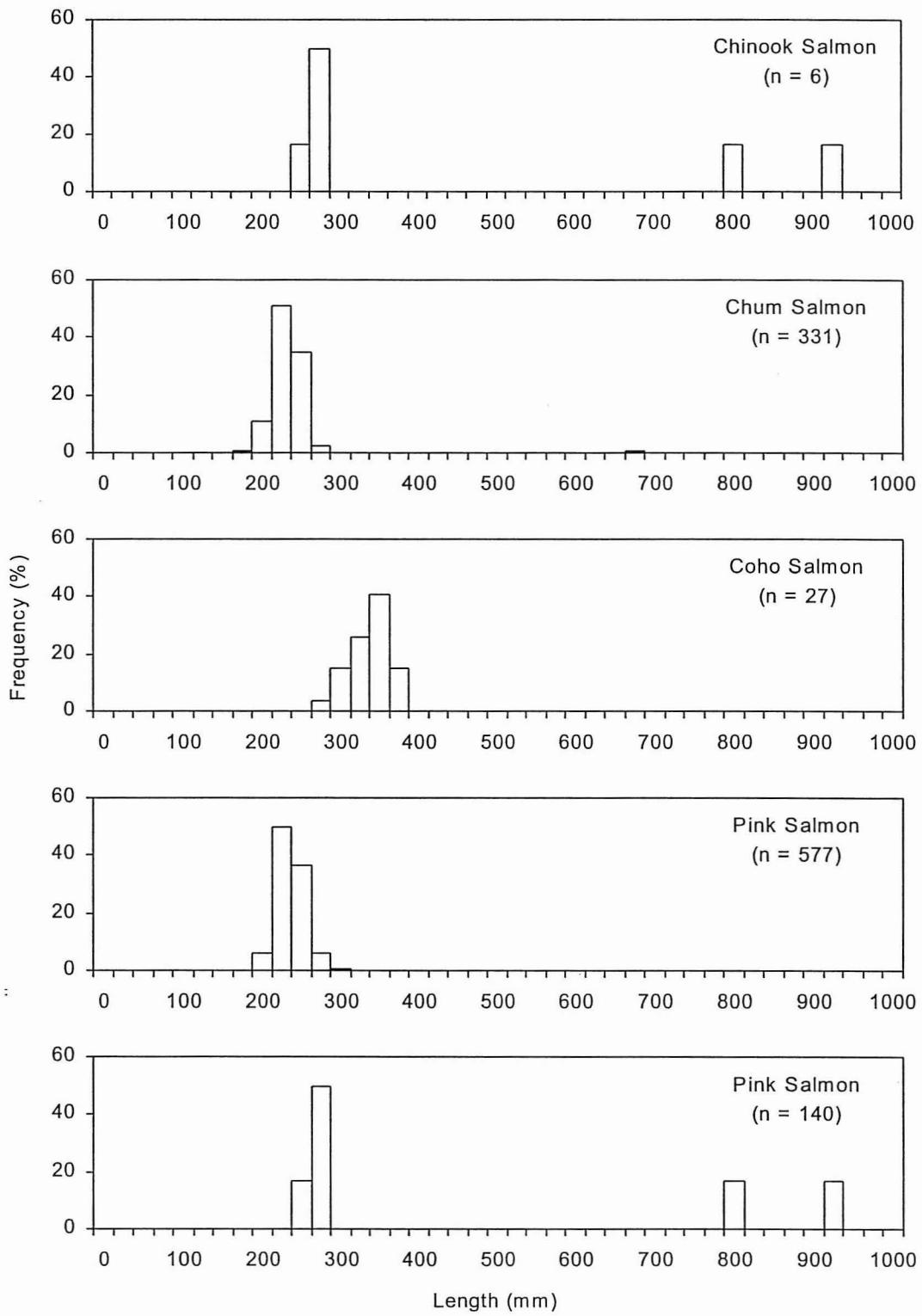


Figure 13. Size distributions of Pacific salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska during November 1 - December 12, 1997.