

Ecosystem-Based Juvenile Pacific Salmon (*Oncorhynchus* spp.) Trawl Survey in the Strait of Georgia and Associated Waters, British Columbia, June 16 - July 1, 2025

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2026

Canadian Data Report of Fisheries and Aquatic Sciences 1481



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Canadian Data Report of
Fisheries and Aquatic Sciences 1481

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ECOSYSTEM-BASED JUVENILE PACIFIC SALMON (*ONCORHYNCHUS* SPP.) TRAWL
SURVEY IN THE STRAIT OF GEORGIA AND ASSOCIATED WATERS, BRITISH COLUMBIA,
JUNE 16 - JULY 1, 2025

by

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Cat. No. Fs97-13/1481E-PDF ISBN 978-0-660-99162-7 ISSN 1488-5395

Correct citation for this publication:

King, J.R., Jung, Y., Tabata, A.M., and Zubkowski, T.B. 2026. Ecosystem-Based Juvenile Pacific Salmon (*Oncorhynchus* spp.) Trawl Survey in the Strait of Georgia and Associated Waters, British Columbia, June 16 - July 1, 2025. Can. Data Rep. Fish. Aquat. Sci. 1481: vi + 55 p.

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ABSTRACT

King, J.R., Jung, Y., Tabata, A.M., and Zubkowski, T.B. 2026. Ecosystem-Based Juvenile Pacific Salmon (*Oncorhynchus* spp.) Trawl Survey in the Strait of Georgia and Associated Waters, British Columbia, June 16 - July 1, 2025. Can. Data Rep. Fish. Aquat. Sci. 1481: vi + 55 p.

Fisheries and Oceans Canada (DFO) conducted an ecosystem-based trawl survey in the Strait of Georgia and associated waters from June 16 to July 1, 2025 on the CCGS Sir John Franklin. This study targeted juvenile Pacific Salmon (*Oncorhynchus* spp.). In 83 tows, there were 31 taxonomic groups caught in 3,332 kg of catch, with 7% juvenile Pacific Salmon caught by weight (230.39 kg). North Pacific Spiny Dogfish (*Squalus suckleyi*), adult Coho Salmon (*O. kisutch*), and Fried Egg Jellyfish (*Phacellophora camtschatica*) were the most abundant catch by weight. There were 5,028 individual lengths and 4,521 individual weights recorded, including all 5 Pacific Salmon species. Juvenile salmon species caught, in decreasing catch weight, were: Chum Salmon, Coho Salmon, Chinook Salmon, Sockeye Salmon and Pink Salmon, with catch distribution varied based on species. Common prey species for juvenile Pacific Salmon included unidentified fishes, crabs, euphausiids and other zooplankton. Biological samples for genetic stock composition, otoliths, energy density, and coded wire tags are archived at the Pacific Biological Station, Fisheries and Oceans Canada (Nanaimo, BC). Associated information on the physical oceanography (38 locations), water samples for chemistry and chlorophyll *a* along with zooplankton samples (38 locations) were returned to the Institute of Ocean Sciences (DFO, Sidney, BC).

RÉSUMÉ

King, J.R., Jung, Y., Tabata, A.M., and Zubkowski, T.B. 2026. Ecosystem-Based Juvenile Pacific Salmon (*Oncorhynchus* spp.) Trawl Survey in the Strait of Georgia and Associated Waters, British Columbia, June 16 - July 1, 2025. Can. Data Rep. Fish. Aquat. Sci. 1481: vi + 55 p.

Pêches et Océans Canada a mené une étude écosystémique au chalutage pélagique du 16 juin au 1er juillet, 2025 sur le CCGS *Sir John Franklin*. Cette étude ciblait les saumons du Pacifique juvéniles (*Oncorhynchus* spp.) de la région du nord et ouest de l'île de Vancouver. En 83 traits, il y avait 31 groupes taxonomiques échantillonnées dans 3,332 kg de prises, avec 7% de juvénile saumon du Pacifique capturé en poids (230.39 kg). Les aiguillat commun du Pacifique nord (*Squalus suckleyi*), les saumon coho adultes (*O. kisutch*), et méduse œuf au plat (*Phacellophora camtschatica*) étaient les espèces les plus abondantes en poids. On a enregistré 5,028 longueurs individuelles et 4,521 poids individuels, dont les 5 espèces de saumon du Pacifique. Les espèces de saumon juvénile capturées par ordre décroissant d'abondance par comptage étaient les suivantes: saumon keta, saumon coho, saumon quinnat, saumon rouge et saumon rose, avec la répartition des prises variait selon les espèces. Les proies communes des saumons juvéniles du Pacifique comprenaient des poissons non identifiés, des crabes, des euphausiacés et d'autres zooplanctons. Les échantillons biologiques pour la composition des stocks génétique, les otolithes, la densité énergétique, les branchies et les micromarques magnétisées codées se trouvent à la Station biologique du Pacifique de Pêches et Océans Canada (Nanaimo, Colombie-Britannique). Des informations associées sur l'océanographie physique (38 stations) et la composition du zooplancton (38 stations) ont été collectées et seront analysées à l'Institut des sciences de la mer, Pêches et Océans Canada (Sidney, C.-B.).

1 INTRODUCTION

The Strait of Georgia is an inland sea between the British Columbia (BC) mainland and Vancouver Island. It is an important ecosystem for juvenile Pacific Salmon (*Oncorhynchus* spp.) from the Fraser River and numerous other rivers and streams that spend from weeks to months rearing in this area. Fisheries and Oceans Canada (DFO) conducted an ecosystem-based midwater trawl survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin* in the Strait of Georgia, Desolation Sound, Discovery Passage, Johnstone Strait and Queen Charlotte Strait targeting juvenile Pacific Salmon specifically Chum Salmon (*O. keta*), Chinook Salmon (*O. tshawytscha*), Coho Salmon (*O. kisutch*), Pink Salmon (*O. gorbuscha*) and Sockeye Salmon (*O. nerka*). The main objectives of this survey were to determine:

1. the abundance, condition, distribution, and genetic stock composition of juvenile Pacific Salmon present,
2. the associated physical oceanography, and
3. the distribution and biomass of prey species, including zooplankton.

Since the mid-1990s, similar surface and midwater trawl surveys have been conducted annually to study juvenile Pacific Salmon in the Strait of Georgia (Beamish et al. 2000). The initial objectives of the survey were to determine the cause of the decline in juvenile Chinook Salmon and Coho Salmon survival and when and where the greatest marine mortality occurred (Neville, Fitzpatrick, and Beamish 2023). A survey design based on a standard trackline, has been used for these surveys since 1998 (Beamish et al. 2000), with surveys typically occurring during the summer (June – July) and fall (September – October) seasons. As time and research priorities allowed, locations outside of standard survey area but associated with the Strait of Georgia were also included but in an ad hoc manner. In 2024, the survey design was expanded along the trackline to include areas previously not routinely included, and also expanded into the northern Strait of Georgia and the migratory route that includes Desolation Sound, Discovery Passage, Johnstone Strait and Queen Charlotte Strait. The intent was to recognize the importance of maintaining consistency with the 20+ years of trawl surveys in this area, while updating methods in survey design, sample processing and data collection that are consistent with other pelagic trawl sampling efforts by DFO in southern BC (e.g., King et al. 2023; Tabata et al. 2024).

This Strait of Georgia trawl survey supports research into linkages between oceanographic conditions, fish abundance and community composition, Pacific Salmon ocean ecology and forecasting adult returns. This survey continues to collaborate with and assist other DFO programs and external partners by the collection of additional data and samples, including the Strait of Georgia Oceanography Program (DFO), the Water Properties Program (DFO), the Pinniped Research Program (DFO), the Pacific Salmon Commission and The Pacific Salmon Foundation. This data report documents the biological, oceanographic, and zooplankton data and samples collected during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025.

2 METHODS

2.1 SURVEY LOCATIONS

Fishing, oceanographic, and zooplankton sampling occurred in the Strait of Georgia, Desolation Sound, Discovery Passage, Johnstone Strait and Queen Charlotte Strait in Southern BC waters (Figures 1 and 2). Fishing locations in the Strait of Georgia were chosen to complement the standard tracklines used in the historical Strait of Georgia juvenile salmon survey time series (Neville, Fitzpatrick, and Beamish 2023). Additional sampling was added to cover missing areas in the Strait of Georgia and in the additional areas to increase the geographic representation of the region and aid in the sampling requests of partner organizations.

2.2 FISHING OPERATIONS

The vessel deployed a coastal LFS 7742 trawl net (Appendix 9, manufactured by LFS Trawl (LFS Net Systems, Bellingham, USA). This two-bridle midwater net has a codend liner (12.7 mm stretched) to retain smaller species. The LFS 7742 trawl net was designed to have a net opening of 30 m wide by 15 m high, or an area of 450 m² (Figure 11). The net was towed at 4 to 5 knots (7.4 - 9.3 km/hr). The target headrope depths were 0 m (surface), 15 m, and 30 m. In previous years, head rope depths included 45 m and 60 m; however, over 90% of the Pacific salmon captured are encountered in headrope depths < 30 m. Two A-6 floats 86.4 cm x 118.1 cm (34" x 46.5") were attached to the headrope for surface tows. The target duration was 20 minutes for surface and 15 m depth tows, and 30 minutes for tows at a depth of 30 m. The start time and location of the tow was recorded when the doors were locked, and the end time and location when the retrieval of the doors was initiated.

The trawl net was fished with Thyborøn Type 15 VF, 4.5 m² midwater doors (approximately 798 kg each). Two chain clumps were attached to the footrope with approximately 204 kg (450 lbs) per chain clump. Vessel speed, direction, bottom depth and weather conditions (Appendix 10) were recorded for each tow. The vessel was equipped with a SCANMAR Trawl System and wireless SS4 Catch Sensor that provided real time door spread, headline depth and net opening values (SCANMAR, Åsgårdstrand, Norway). RBR duet (RBR Ltd., Ottawa, ON, Canada) temperature and depth sensors were attached to the headrope and footrope to record depth and temperature every 30 seconds to allow for determination of the vertical net depth and opening over time. Net mensuration data from the SCANMAR trawl sensors and RBR data loggers were recorded for mouth opening height, gear depth and doorspread. The doorspread was used to calculate the horizontal net opening width. The difference between the headrope and footrope depth from the RBR duet data loggers was used to calculate the vertical mouth opening of each tow. When calculating swept volume (km³) as effort for catch per unit effort estimates, tow depth-specific averages were used for any tows with missing mensuration data.

2.3 CATCH PROCESSING

At the end of each trawl tow, all retrieved specimens were sorted to the lowest taxonomic group possible. Large catches were randomly subsampled prior to sorting. The total catch (or the subsample) of each species or taxonomic group, was weighed using Marel Model M2200 dual range motion-compensating electronic scales and when practical, the number of individuals was recorded. For catches of a species or taxonomic group which totaled less than 0.01 kg, “trace” weight was recorded. Pacific Salmon were divided into juveniles and adults based on their fork lengths to account for different migratory behaviour with a fork length of < 300 mm considered to be a juvenile. Jellyfish species catch weights include both whole and incomplete pieces, while counts are only inclusive of specimens with intact bells.

2.4 BIOLOGICAL SAMPLES

For each species, a pre-determined, target number of randomly selected specimens per tow were sampled for length and weight (Marel Model M2200 dual range motion-compensating electronic scales), with up to 10 of those randomly selected specimens also used for stomach content analyses. If the catch count was less than the target number, all specimens in that tow were sampled. Stomachs were analysed at sea following an established protocol (King, Boldt, and King 2018), and from these samples up to five whole bodies were collected for energy density analyses to be conducted back in the laboratory. Pacific Salmon had additional sampling and collections, which included: fin clips for genetic stock identification (GSI), otoliths, adipose fin status (i.e., clipped vs. non-clipped), and the presence and retention of coded wire tags (CWTs). Additional collection of specimens and samples were taken as requested by project collaborators.

2.5 OCEANOGRAPHY

A Sea-Bird SBE-911plus CTD (conductivity-temperature-depth) equipped with transmissometer, fluorometer, pH, salinity and dissolved oxygen sensors was used for oceanographic profiles (Sea-bird Electronics Bellevue Washington, USA). A Niskin bottle at the surface was used for nutrient and chlorophyll (chl *a*) collections. Seawater samples for nitrate, phosphate, and silicate were placed in acid-washed glass test tubes and frozen. Seawater for chl *a* estimation was filtered with a 25 mm GF/F glass fibre filter disks. Filter disks were then placed in polypropylene scintillation vials and frozen. Both the nutrient and chl *a* samples were frozen and maintained at -20°C. Nutrient and chl *a* samples were returned for analyses at the Institute of Ocean Sciences, Fisheries and Oceans Canada (Sidney, BC).

2.6 ZOOPLANKTON

Vertical tows to sample zooplankton were conducted to within 10 m of the bottom with two 60 cm diameter, 253 micrometer mesh nets mounted in a bongo-drum style frame, one of which was equipped with a flow meter. Zooplankton collected from the flow meter side net were sorted into

four size fractions by successively sieving through 8.0, 1.7, 1.0, and 0.25 mm screens. Each size fraction was individually frozen for future analyses, such as energy density, stable isotope, or proximate analyses. Zooplankton collected from the net without the flowmeter were preserved in 10% buffered formalin and sent to the zooplankton laboratory at the Institute of Ocean Sciences, Fisheries and Oceans Canada (Sidney, BC) for species classification and enumeration.

3 RESULTS

3.1 FISHING OPERATIONS

This survey conducted 84 trawl net tows in the Strait of Georgia, Desolation Sound, Discovery Passage, Johnstone Strait and Queen Charlotte Strait with 83 trawls completed successfully and 1 unusable tow which was aborted due to whales detected in the area (Figure 1 and Appendix Table 6). There were 65 tows initiated in the area of the historical Strait of Georgia standard survey trackline. Tows in the Strait of Georgia were fished with a target depth of 0 - 30 m, with 46% of usable tows at 0 m, 40% at 15 m, and 14% at 30 m. Tows outside of the Strait of Georgia were fished with a target headrope depth of 0 m (71% of tows) or 15 m (29% of tows). The sea state and weather were favourable throughout the survey area and all planned areas were successfully completed.

Tow speed averaged 7.8 km/hr (4.2 knots), and varied between 6.5 to 9.6 km/hr (3.5 - 5.2 knots) speed over ground, depending on the wind, tide, and current. Warp length ranged from 200 m to 325 m (Appendix Table 6). The average height and width for surface tows was 19 m and 47 m respectively; 12 m and 51 m for 15 m target depth tows; 12 m and 57 m for 30 m target depth tows.

3.2 OCEANOGRAPHY

CTD casts and water samples were completed at 38 sites (Figure 2) with cast depths ranging from 49 m to 598 m (Appendix Table 20). None of the CTD casts had equipment failures; all 38 casts were usable. Oceanographic data from the CTD casts and nutrient analysis of the water samples will be archived online within the [Water Properties Data Inventory](#) under cruise number 2025-024.

3.3 ZOOPLANKTON

Bongo tows were conducted at 38 stations (Figure 2) to depths ranging from 48 m to 306 m (Appendix Table 20). Formalin-preserved zooplankton samples will be enumerated at the Institute of Ocean Sciences, Fisheries and Oceans Canada (Sidney, BC). Data will be archived in the zooplankton database. Fractionated zooplankton samples are frozen at the Pacific Biological Station, Fisheries and Oceans Canada (Nanaimo, BC).

3.4 CATCH COMPOSITION

Total catch for the survey from usable tows was 3,332 kg, of which 230.39 kg (7%) were juvenile Pacific Salmon. Detailed catch composition for each tow is included in Appendix Table 22. For each species captured during the survey, the number of tows in which the species was present, total catch weight and count, maximum tow catch weight, and mean tow catch weight in usable tows is presented in Table 1. The three most abundant species caught by weight were North Pacific Spiny Dogfish (1,703.13 kg), caught in 34% of the tows, adult Coho Salmon (403.26 kg), caught in 64% of the tows, and Fried Egg Jellyfish (343.68 kg) in 83% of the tows (Table 1). The three most numerous species by count of individuals were juvenile Chum Salmon, Northern Anchovy and juvenile Coho Salmon.

Juvenile Pacific Salmon were caught throughout the survey region. The location and relative catch per unit effort, as determined by weight caught per volume swept (CPUE, tonnes/km³) of juvenile salmon is shown in Figure 3. Chum Salmon (Juveniles) were the most abundant salmon species by weight and second most abundant by count (Wt. = 103.47 kg; N = 6476) and caught mainly in the northern survey areas. Coho Salmon (Juveniles) were the second most abundant juvenile salmon species by weight (Wt. = 102.86 kg; N = 1532). They were caught consistently throughout the survey area, and were encountered in 87% of the tows. Chinook Salmon (Juveniles) and Sockeye Salmon (Juveniles) were less abundant by weight (21.14 kg and 1.79 kg respectively), both species were less abundant by count (N = 563 and 102 respectively). Both species were caught throughout the survey area, mainly in the eastern side of the Strait of Georgia and northern survey areas. Juvenile Pink Salmon (Juveniles) were the least abundant salmon species found by weight and count (Wt. = 1.13 kg; N = 83) and were few catches in northern areas. The survey methods are targeted towards juvenile Pacific Salmon, and so the catches of adult Pacific Salmon should be interpreted with care.

The location and catch per unit effort (CPUE, tonnes/km³) of other, non-salmonid, frequently caught species is shown in Figure 4.

3.5 BIOLOGICAL SAMPLES

Samples were collected for GSI (2,017), otoliths (1,505), energy density (642), and CWT (132). These biological samples were returned to the Pacific Biological Station, Fisheries and Oceans Canada (Nanaimo, BC). Additional specimens and samples were collected as requested by collaborators and partners.

3.6 LENGTH AND WEIGHT

Lengths and weights of 23 species were recorded (Table 2). Coho Salmon had the largest mean length (170 mm) and weight (67 g) of all juvenile salmon species, whereas Pink Salmon had the smallest mean length (111 mm) and weight (13 g). Length frequencies and length-weight relationships are presented for Pacific Salmon species in Figures 5 to 9 and double log transformed length-weight regression coefficients were estimated. A larger regression coefficient typically represents better condition, whereas a smaller coefficient typically represents poorer

condition. Length frequencies for other species with at least 100 individuals measured is shown in Figure 10.

3.7 STOMACH CONTENTS

Stomachs of 1,572 individual fish, from 16 species groups, were analysed at sea (Table 3). Juvenile Pacific Salmon species had between 1 and 12% empty stomachs, with juvenile Chum Salmon having the lowest percentage and juvenile Pink Salmon having the highest percentage (Table 3). The frequency of observation and average volume of identified prey is shown in Table 4. Amphipods were the most frequently observed prey item in juvenile Chinook Salmon stomachs, and Pacific Herring were the most voluminous. Unidentified remains were by far the most frequently observed prey in juvenile Chum Salmon stomachs. These remains were likely that of gelatinous prey, e.g., jellyfish, that are quickly digested. Euphausiids and copepods were prey items of the highest volume in juvenile Chum Salmon stomachs. Juvenile Coho Salmon frequently consumed crabs, and Pacific herring were the highest volume prey item. Only 26 stomachs of juvenile Pink Salmon were sampled, and unidentified remains were most frequently recorded. Amphipods were the most frequently observed prey item in juvenile Sockeye Salmon stomachs.

4 DISCUSSION

The data generated by this ecosystem-based juvenile Pacific Salmon trawl survey in 2025 covers physical and biological oceanographic conditions, fish abundance and composition of the pelagic community, along with comprehensive sampling and stomach content analyses of all caught species. These data provide valuable information on distribution, abundance, condition, and genetic stock composition for juvenile Pacific Salmon in the Strait of Georgia, Desolation Sound, Discovery Passage, Johnstone Strait and Queen Charlotte Strait. It extends a long-term trawl survey time series from southern British Columbia of juvenile Pacific Salmon and other important pelagic fish species. The physical oceanographic water profiles and zooplankton samples associated with the survey catches provide valuable additions to the understanding of the pelagic ecosystem. Associated data from laboratory analysis (i.e. GSI, energy density, coded wire tags, zooplankton composition) will be incorporated into longer term and broader scope research projects.

5 ACKNOWLEDGEMENTS

We acknowledge that we conducted this scientific research in the traditional territories of many First Nations, including: Cowichan, Halalt, Homalco, Klahoose, K'omoks, Kwakiutl, Kwiakah, Kwikwasut'inuxw Haxwa'mis, Lyackson, Malahat, Mamalilikulla, Musqueam, Namgis, Pauquachin, Penelakut, Qualicum, Quatsino, Semiahmoo, shíshálh, Snaw-naw-as, Snuneymuxw, Squamish, Stz'uminus, Tla'amin, Tlatlasikwala, Tsartlip, Tsawout and Tsawwassen. We thank Captain Dale Unruh, and crew of the CCGS *Sir John Franklin*. We appreciate the expertise of

the following additional science staff who participated in the survey: Chloe Immonen (IOS), Lana Fitzpatrick, Svetlana Esenkulova (Pacific Salmon Foundation) and Tor Kitching.

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7 TABLES

Table 1. All captured species (or taxonomic group), ordered by total catch weight (in kilograms), showing number of tows in which the species occurred, total catch count, (Count), total catch weight (Weight), maximum catch weight (Max), and mean catch weight (Mean) per tow for usable tows during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Jellyfish species catch weights include both whole and incomplete pieces, while counts are only inclusive of specimens with intact bells. Blank weights indicate specimens which could not be weighed accurately (either released alive or too small). Juvenile and adult Pacific Salmon are presented as separate species' groups.

Common Name	Scientific Name	Tows	Count	Weight	Max	Mean
North Pacific Spiny Dogfish	<i>Squalus suckleyi</i>	28	1,420	1,703.13	1,037.99	61
Coho Salmon (Adults)	<i>Oncorhynchus kisutch</i>	53	281	403.26	44.92	8
Fried Egg Jellyfish	<i>Phacellophora camtschatica</i>	69	81	343.68	22.78	5
Chinook Salmon (Adults)	<i>Oncorhynchus tshawytscha</i>	53	207	203.88	14.20	4
Chum Salmon (Juveniles)	<i>Oncorhynchus keta</i>	26	6,476	103.47	31.01	4
Coho Salmon (Juveniles)	<i>Oncorhynchus kisutch</i>	72	1,532	102.86	17.99	1
Pink Salmon (Adults)	<i>Oncorhynchus gorbuscha</i>	25	67	83.00	10.27	3
Walleye Pollock	<i>Gadus chalcogrammus</i>	6	178	75.22	72.31	13
Lions Mane	<i>Cyanea capillata</i>	25	41	64.23	12.44	3
Water Jellyfish	<i>Aequorea</i>	49	20	62.43	18.93	1
Northern Anchovy	<i>Engraulis mordax</i>	2	4,233	56.27	56.26	28
Moon Jellyfish	<i>Aurelia labiata</i>	41	143	54.66	8.80	1
Pacific Herring	<i>Clupea pallasii</i>	19	1,291	33.78	31.74	3
Chinook Salmon (Juveniles)	<i>Oncorhynchus tshawytscha</i>	42	563	21.14	5.47	1
Chum Salmon (Adults)	<i>Oncorhynchus keta</i>	9	18	10.53	2.72	1
Sockeye Salmon (Juveniles)	<i>Oncorhynchus nerka</i>	19	102	1.79	0.39	0
Pacific Sea Nettle	<i>Chrysaora fuscescens</i>	1		1.76	1.76	2
River Lamprey	<i>Lampetra ayresii</i>	22	81	1.35	0.39	0
Pink Salmon (Juveniles)	<i>Oncorhynchus gorbuscha</i>	8	83	1.13	0.68	0
Sockeye Salmon (Adults)	<i>Oncorhynchus nerka</i>	2	2	1.13	0.60	1
Starry Flounder	<i>Platichthys stellatus</i>	1	1	1.09	1.09	1
Opalescent Inshore Squid	<i>Doryteuthis opalescens</i>	18	63	0.97	0.30	0
Wolf Eel	<i>Anarrhichthys ocellatus</i>	7	7	0.44	0.15	0
Spotted Ratfish	<i>Hydrolagus colliei</i>	1	1	0.39	0.39	0
Steelhead Trout	<i>Oncorhynchus mykiss</i>	1	1	0.05	0.05	0
Cods/Hakes/Grenadiers	<i>Gadiformes</i>	16	30			
Poachers	<i>Agonidae</i>	14	17			
Soft Sculpin	<i>Psychrolutes sigalutes</i>	5	6			
Codfishes	<i>Gadidae</i>	1	1			
Rockfishes	<i>Sebastes</i>	1	1			
Sailfin Sculpin	<i>Nautichthys oculofasciatus</i>	1	1			

Table 2. Lengths and weights for each species (arranged descending by the number of length measurements for each by species) sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Tows = number of tows. Type = Type of length measurement (FL = Fork Length, TL = Total Length, SL = Standard Length, ML = Mantle Length, BD = Bell Diameter). Lengths = number of length measurements. Weights = number of weight measurements. Juvenile and adult Pacific Salmon are presented as separate species' groups.

Common Name	Tows	Length (mm)					Weight (g)			
		Type	Lengths	Min	Max	Mean	Weights	Min	Max	Mean
Chum Salmon (Juveniles)	26	FL	1,301	75	178	113	1,300	4	66	15
Coho Salmon (Juveniles)	72	FL	1,216	95	283	170	1,216	10	294	67
Chinook Salmon (Juveniles)	42	FL	534	70	215	141	534	3	120	37
North Pacific Spiny Dogfish	28	TL	324	280	1,050	615	298	75	5,728	1,279
Coho Salmon (Adults)	53	FL	279	326	650	500	279	427	3,504	1,435
Chinook Salmon (Adults)	53	FL	208	288	808	405	208	327	7,304	974
Moon Jellyfish	34	BD	204	51	297	157				
Pacific Herring	13	SL	161	37	174	127	154	1	67	29
Fried Egg Jellyfish	30	BD	125	72	509	229				
Northern Anchovy	2	SL	99	81	147	106	99	6	34	14
Water Jellyfish	8	BD	98	24	74	44				
River Lamprey	22	TL	81	132	265	203	81	4	43	15
Sockeye Salmon (Juveniles)	19	FL	79	88	160	121	79	6	41	17
Walleye Pollock	6	FL	77	325	479	386	77	272	604	423
Pink Salmon (Adults)	25	FL	67	405	519	467	67	790	1,625	1,230
Opalescent Inshore Squid	13	ML	57	15	106	74	52	4	35	16
Pink Salmon (Juveniles)	8	FL	45	98	128	111	45	7	21	13
Lions Mane	19	BD	39	80	820	316				
Chum Salmon (Adults)	9	FL	18	309	427	359	18	349	1,120	577
Wolf Eel	7	TL	7	327	580	439	7	14	127	54
Sockeye Salmon (Adults)	2	FL	2	360	371	366	2	555	590	572
Codfishes	1	FL	1	60	60	60	1	2	2	2
Cods/Hakes/Grenadiers	1	FL	1	57	57	57				
Pacific Sea Nettle	1	BD	1	424	424	424				
Sailfin Sculpin	1	TL	1	55	55	55				
Spotted Ratfish	1	TL	1	427	427	427	1	375	375	375
Starry Flounder	1	TL	1	458	458	458	1	1,093	1,093	1,093
Steelhead Trout	1	FL	1	180	180	180	1	54	54	54

Table 3. Number of tows with stomach samples (Tows), number of stomachs examined (Stomachs), number of empty stomachs (Empty), and percentage of empty stomachs for each species (Percent Empty), arranged descending by number of stomachs sampled, during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Juvenile and adult Pacific Salmon are presented as separate species' groups.

Species	Tows	Stomachs	Empty	Percent Empty
Coho Salmon (Juveniles)	72	489	8	2
Coho Salmon (Adults)	52	238	28	12
Chinook Salmon (Juveniles)	41	230	12	5
Chum Salmon (Juveniles)	26	180	2	1
Chinook Salmon (Adults)	51	171	27	16
Sockeye Salmon (Juveniles)	18	63	2	3
Pink Salmon (Adults)	24	62	10	16
Pacific Herring	5	43	17	40
Pink Salmon (Juveniles)	8	26	3	12
Chum Salmon (Adults)	9	18	2	11
Walleye Pollock	6	17	2	12
North Pacific Spiny Dogfish	3	17	7	41
Northern Anchovy	1	10	0	0
Opalescent Inshore Squid	1	5	3	60
Sockeye Salmon (Adults)	2	2	1	50
Steelhead Trout	1	1	0	0

Table 4. Prey items (Prey) identified in the stomach contents of predator species (Species; Juvenile and adult Pacific Salmon are presented as separate species' groups) sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Frequency of occurrence (FO) is the proportion of non-empty stomachs containing that prey item and volume is the mean volume in cm³.

Species	Prey	FO	Volume
Chinook Salmon (Adults)	Crabs	0.55	2.08
Chinook Salmon (Adults)	Unidentified Fishes	0.28	2.71
Chinook Salmon (Adults)	Euphausiids	0.25	2.81
Chinook Salmon (Adults)	Pacific Herring	0.21	14.58
Chinook Salmon (Adults)	Amphipods	0.04	0.30
Chinook Salmon (Adults)	Unidentified Remains	0.03	0.13
Chinook Salmon (Adults)	Pacific Hake	0.01	31.00
Chinook Salmon (Adults)	Octopus	0.01	2.20
Chinook Salmon (Adults)	Shrimp	0.01	0.20
Chinook Salmon (Adults)	Poachers	0.01	0.10
Chinook Salmon (Adults)	Cephalopods	0.01	0.10
Chinook Salmon (Adults)	Copepods	0.01	0.01
Chinook Salmon (Juveniles)	Amphipods	0.41	0.22
Chinook Salmon (Juveniles)	Euphausiids	0.31	0.29
Chinook Salmon (Juveniles)	Unidentified Fishes	0.29	0.24
Chinook Salmon (Juveniles)	Crabs	0.15	0.38
Chinook Salmon (Juveniles)	Unidentified Remains	0.10	0.12
Chinook Salmon (Juveniles)	Cephalopods	0.09	0.13
Chinook Salmon (Juveniles)	Pacific Herring	0.08	1.37
Chinook Salmon (Juveniles)	Rockfishes	0.08	0.19
Chinook Salmon (Juveniles)	Copepods	0.07	0.27
Chinook Salmon (Juveniles)	Poachers	0.02	0.18
Chinook Salmon (Juveniles)	Shrimp	0.01	0.25
Chinook Salmon (Juveniles)	Flatfishes	0.01	0.10
Chinook Salmon (Juveniles)	Octopus	0.01	0.10
Chinook Salmon (Juveniles)	Tube Snouts	0.00	0.20
Chinook Salmon (Juveniles)	Chilipepper	0.00	0.10
Chinook Salmon (Juveniles)	Isopods	0.00	0.01
Chum Salmon (Adults)	Unidentified Remains	0.94	3.55
Chum Salmon (Adults)	Comb Jellyfish	0.38	0.97
Chum Salmon (Adults)	Unidentified Fishes	0.06	2.50
Chum Salmon (Adults)	Amphipods	0.06	0.01
Chum Salmon (Juveniles)	Unidentified Remains	0.87	0.28
Chum Salmon (Juveniles)	Amphipods	0.15	0.37
Chum Salmon (Juveniles)	Euphausiids	0.09	0.55
Chum Salmon (Juveniles)	Copepods	0.03	0.56
Chum Salmon (Juveniles)	Comb Jellyfish	0.02	0.01
Chum Salmon (Juveniles)	Crabs	0.01	0.20
Coho Salmon (Adults)	Crabs	0.72	5.90
Coho Salmon (Adults)	Amphipods	0.25	0.53
Coho Salmon (Adults)	Euphausiids	0.24	4.04
Coho Salmon (Adults)	Unidentified Fishes	0.20	5.15
Coho Salmon (Adults)	Pacific Herring	0.13	15.47
Coho Salmon (Adults)	Poachers	0.04	2.20
Coho Salmon (Adults)	Unidentified Remains	0.04	1.04

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Species	Prey	FO	Volume
Coho Salmon (Adults)	Copepods	0.02	0.72
Coho Salmon (Adults)	Shrimp	0.01	0.60
Coho Salmon (Adults)	Flatfishes	0.01	0.27
Coho Salmon (Adults)	Cods/Hakes/Grenadiers	0.00	72.00
Coho Salmon (Adults)	Northern Anchovy	0.00	16.00
Coho Salmon (Adults)	Squid	0.00	11.50
Coho Salmon (Adults)	Octopus	0.00	0.20
Coho Salmon (Adults)	Bay Pipefish	0.00	0.10
Coho Salmon (Juveniles)	Crabs	0.85	1.08
Coho Salmon (Juveniles)	Amphipods	0.69	0.43
Coho Salmon (Juveniles)	Euphausiids	0.25	0.67
Coho Salmon (Juveniles)	Unidentified Fishes	0.15	0.48
Coho Salmon (Juveniles)	Pacific Herring	0.08	2.99
Coho Salmon (Juveniles)	Rockfishes	0.06	0.60
Coho Salmon (Juveniles)	Unidentified Remains	0.02	0.18
Coho Salmon (Juveniles)	Shrimp	0.01	0.37
Coho Salmon (Juveniles)	Cephalopods	0.01	0.10
Coho Salmon (Juveniles)	Pteropods	0.01	0.07
Coho Salmon (Juveniles)	Isopods	0.00	0.70
Coho Salmon (Juveniles)	Polychaete Worms	0.00	0.30
Coho Salmon (Juveniles)	Misc. Non-Marine	0.00	0.26
Coho Salmon (Juveniles)	Flatfishes	0.00	0.15
North Pacific Spiny Dogfish	Unidentified Remains	1.00	0.44
North Pacific Spiny Dogfish	Comb Jellyfish	0.60	0.70
North Pacific Spiny Dogfish	Amphipods	0.10	0.10
Northern Anchovy	Unidentified Remains	1.00	0.02
Opalescent Inshore Squid	Unidentified Remains	1.00	0.16
Pacific Herring	Amphipods	0.38	0.19
Pacific Herring	Crabs	0.35	0.10
Pacific Herring	Unidentified Remains	0.27	0.08
Pacific Herring	Copepods	0.23	0.68
Pacific Herring	Euphausiids	0.15	1.18
Pink Salmon (Adults)	Crabs	0.75	5.83
Pink Salmon (Adults)	Amphipods	0.48	0.53
Pink Salmon (Adults)	Euphausiids	0.38	4.82
Pink Salmon (Adults)	Copepods	0.15	1.55
Pink Salmon (Adults)	Unidentified Remains	0.08	1.65
Pink Salmon (Adults)	Unidentified Fishes	0.08	0.50
Pink Salmon (Adults)	Pteropods	0.08	0.20
Pink Salmon (Adults)	Poachers	0.04	1.40
Pink Salmon (Adults)	Isopods	0.04	0.01
Pink Salmon (Adults)	Pacific Herring	0.02	0.50
Pink Salmon (Adults)	Comb Jellyfish	0.02	0.20
Pink Salmon (Adults)	Cephalopods	0.02	0.01
Pink Salmon (Juveniles)	Unidentified Remains	0.70	0.04
Pink Salmon (Juveniles)	Amphipods	0.30	0.09
Pink Salmon (Juveniles)	Copepods	0.09	0.01
Pink Salmon (Juveniles)	Crabs	0.04	0.10
Pink Salmon (Juveniles)	Unidentified Fishes	0.04	0.01

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Species	Prey	FO	Volume
Sockeye Salmon (Adults)	Crabs	1.00	1.20
Sockeye Salmon (Adults)	Amphipods	1.00	0.10
Sockeye Salmon (Juveniles)	Amphipods	0.84	0.28
Sockeye Salmon (Juveniles)	Unidentified Remains	0.23	0.12
Sockeye Salmon (Juveniles)	Euphausiids	0.18	0.73
Sockeye Salmon (Juveniles)	Copepods	0.08	0.13
Sockeye Salmon (Juveniles)	Crabs	0.08	0.05
Sockeye Salmon (Juveniles)	Unidentified Fishes	0.03	0.26
Sockeye Salmon (Juveniles)	Shrimp	0.02	0.60
Steelhead Trout	Misc. Non-Marine	1.00	0.01
Steelhead Trout	Amphipods	1.00	0.01
Steelhead Trout	Euphausiids	1.00	0.01
Walleye Pollock	Euphausiids	0.93	4.02
Walleye Pollock	Pacific Herring	0.13	0.55
Walleye Pollock	Amphipods	0.13	0.01
Walleye Pollock	Smelts	0.07	3.50
Walleye Pollock	Crabs	0.07	0.80
Walleye Pollock	Pteropods	0.07	0.01

8 FIGURES

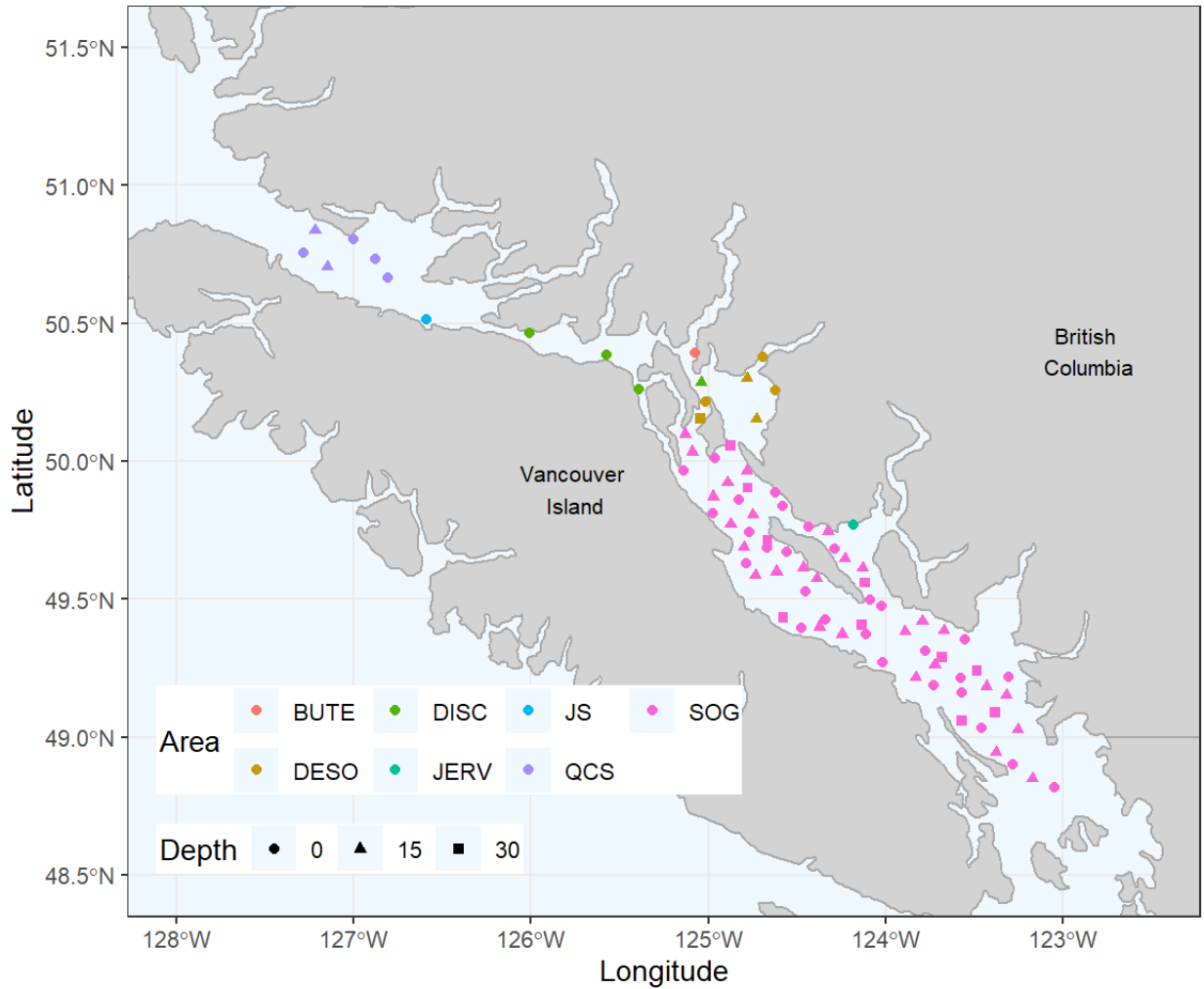


Figure 1. Location and target headrope depths of survey midwater trawl fishing events during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin*. Target headrope depth (m) is indicated by the marker symbol. Color of marker indicates the area of the fishing event (DESO = Desolation Sound, DISC = Discovery Passage, JS = Johnstone Strait, QCS = Queen Charlotte Strait, and SOG = Strait of Georgia).

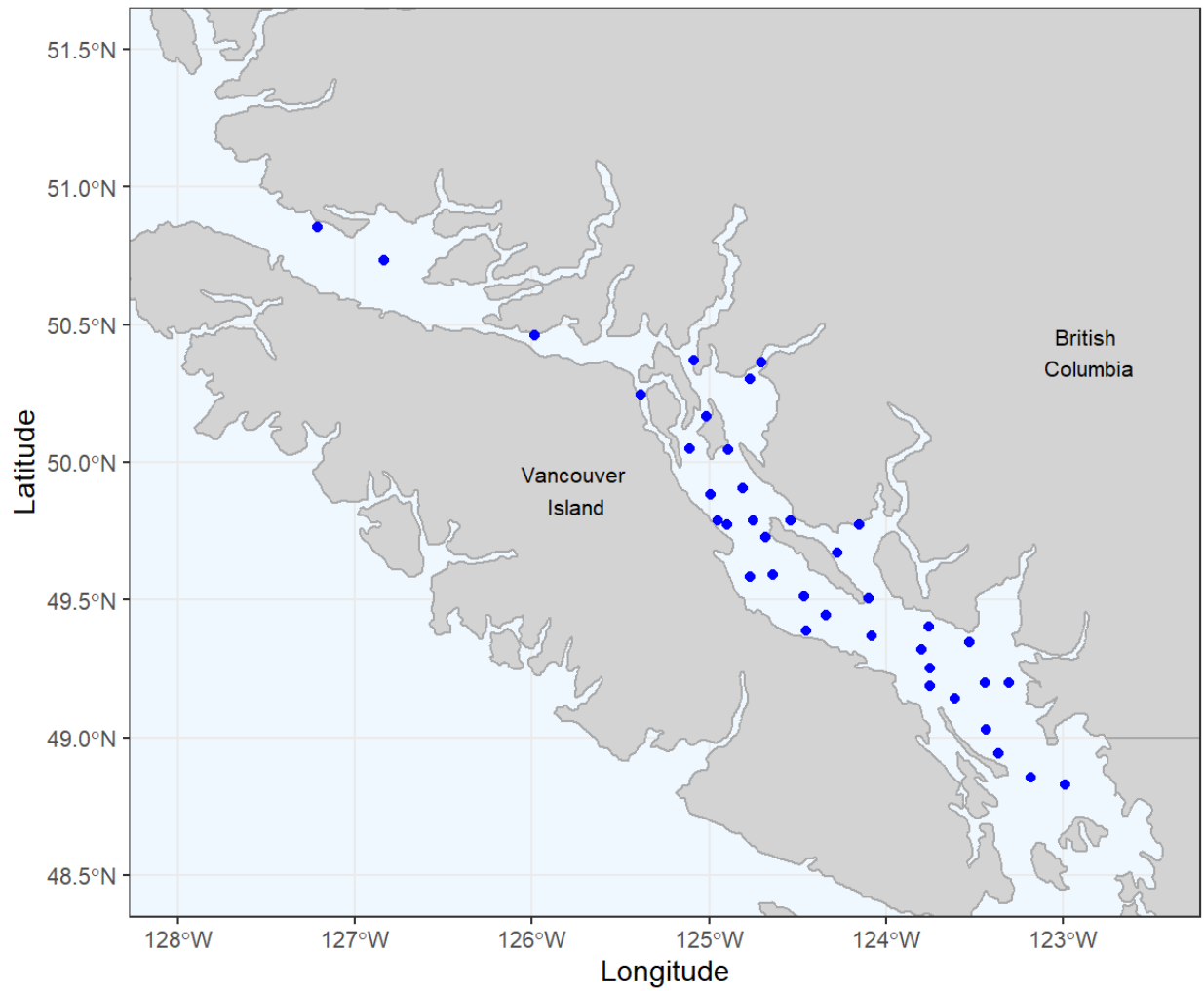


Figure 2. Location of survey oceanography events (CTD and plankton Bongos) during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin*. All events were usable.

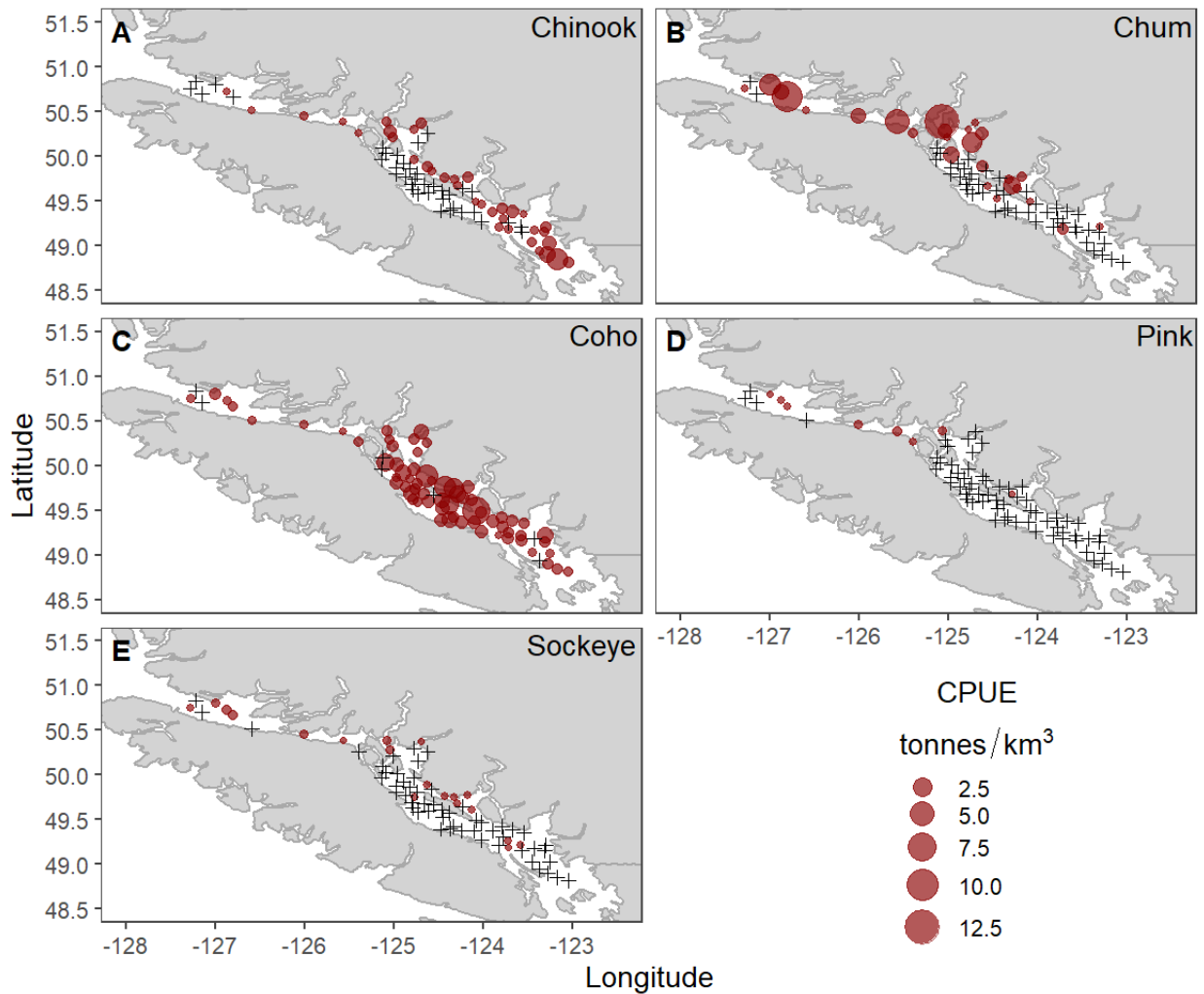


Figure 3. Juvenile Pacific Salmon (*Oncorhynchus spp.*) catch per unit effort (CPUE; tonnes/km³) for each tow targeting 0 or 15 m headrope depths. (A) Chinook Salmon (*Oncorhynchus tshawytscha*), (B) Chum Salmon (*Oncorhynchus keta*), (C) Coho Salmon (*Oncorhynchus kisutch*), (D) Pink Salmon (*Oncorhynchus gorbuscha*), and (E) Sockeye Salmon (*Oncorhynchus nerka*). Circles are proportional to catch abundance, and zero catches are shown with a cross (+).

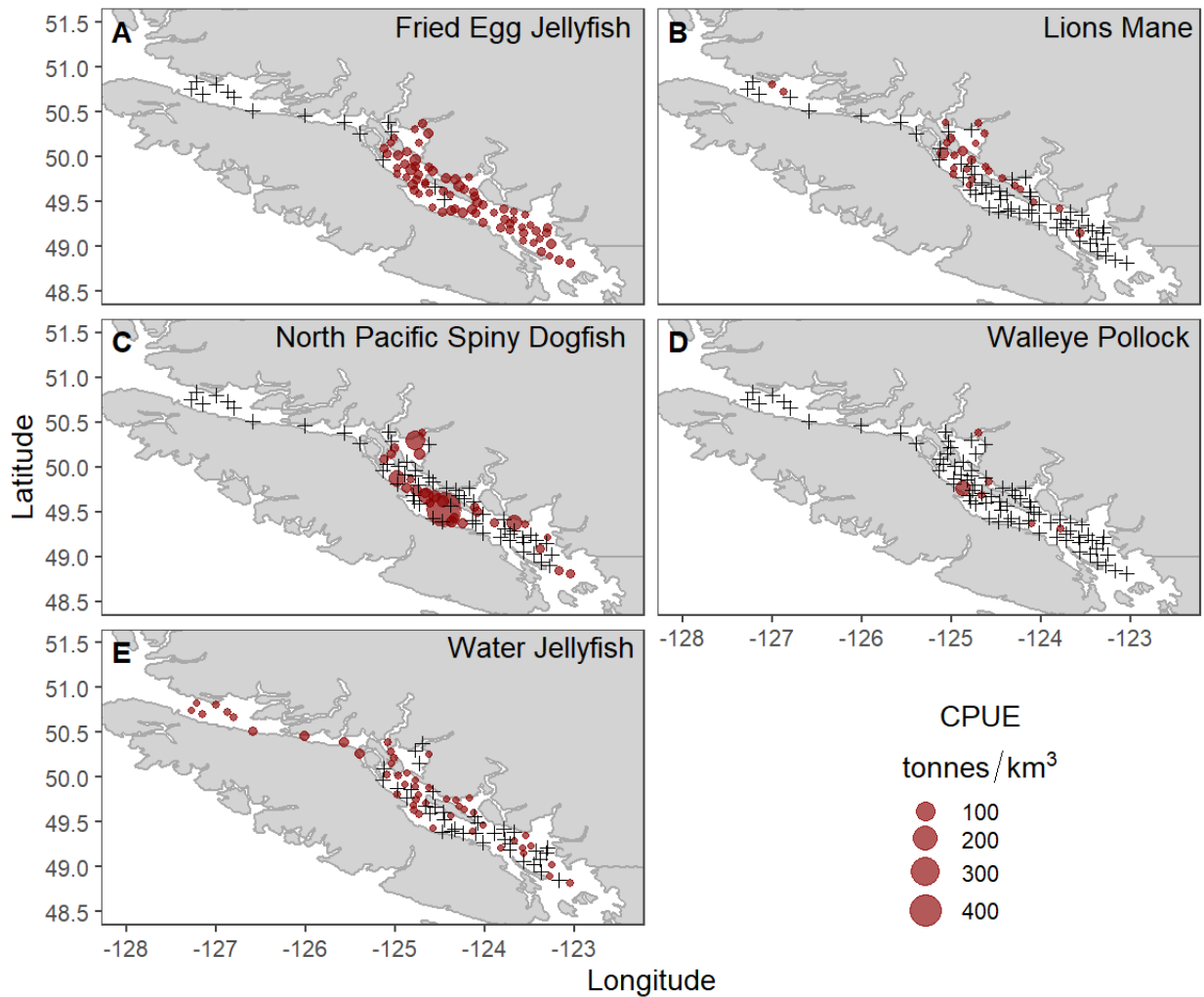


Figure 4. Catch per unit effort (CPUE; tonnes/km³) by all tows for commonly caught species during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Circles are proportional to catch abundance, and zero catches are shown with a cross (+). (A) Fried Egg Jellyfish (*Phacellophora camtschatica*), (B) Lions Mane (*Cyanea capillata*), (C) North Pacific Spiny Dogfish (*Squalus suckleyi*), (D) Walleye Pollock (*Gadus chalcogrammus*), (E) Water Jellyfish (*Aequorea*).

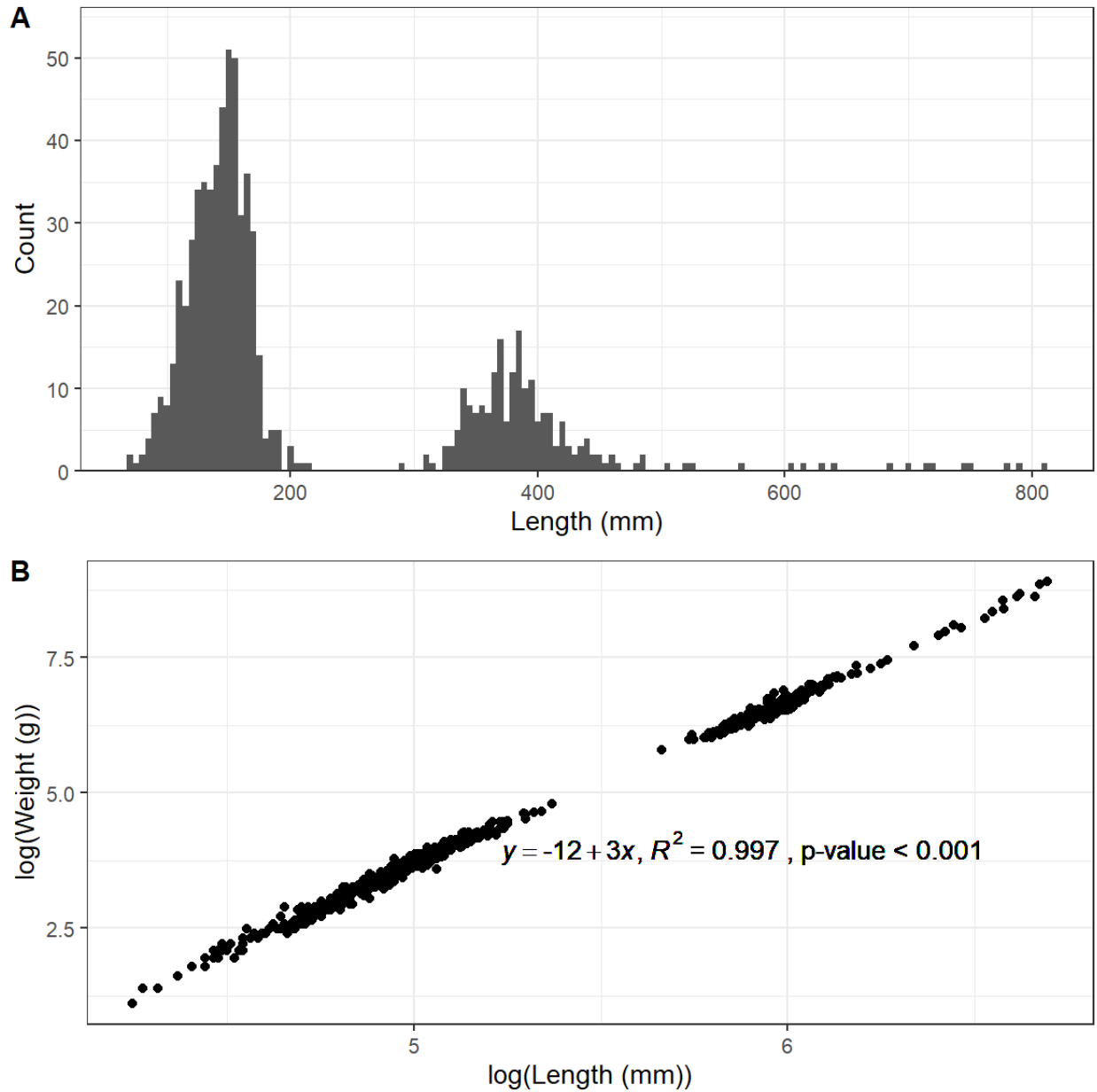


Figure 5. Chinook Salmon (*Oncorhynchus tshawytscha*) length frequency plot as sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025 (A). Double log-transformed length-weight regression with outliers removed, using a Bonferroni outlier test (B).

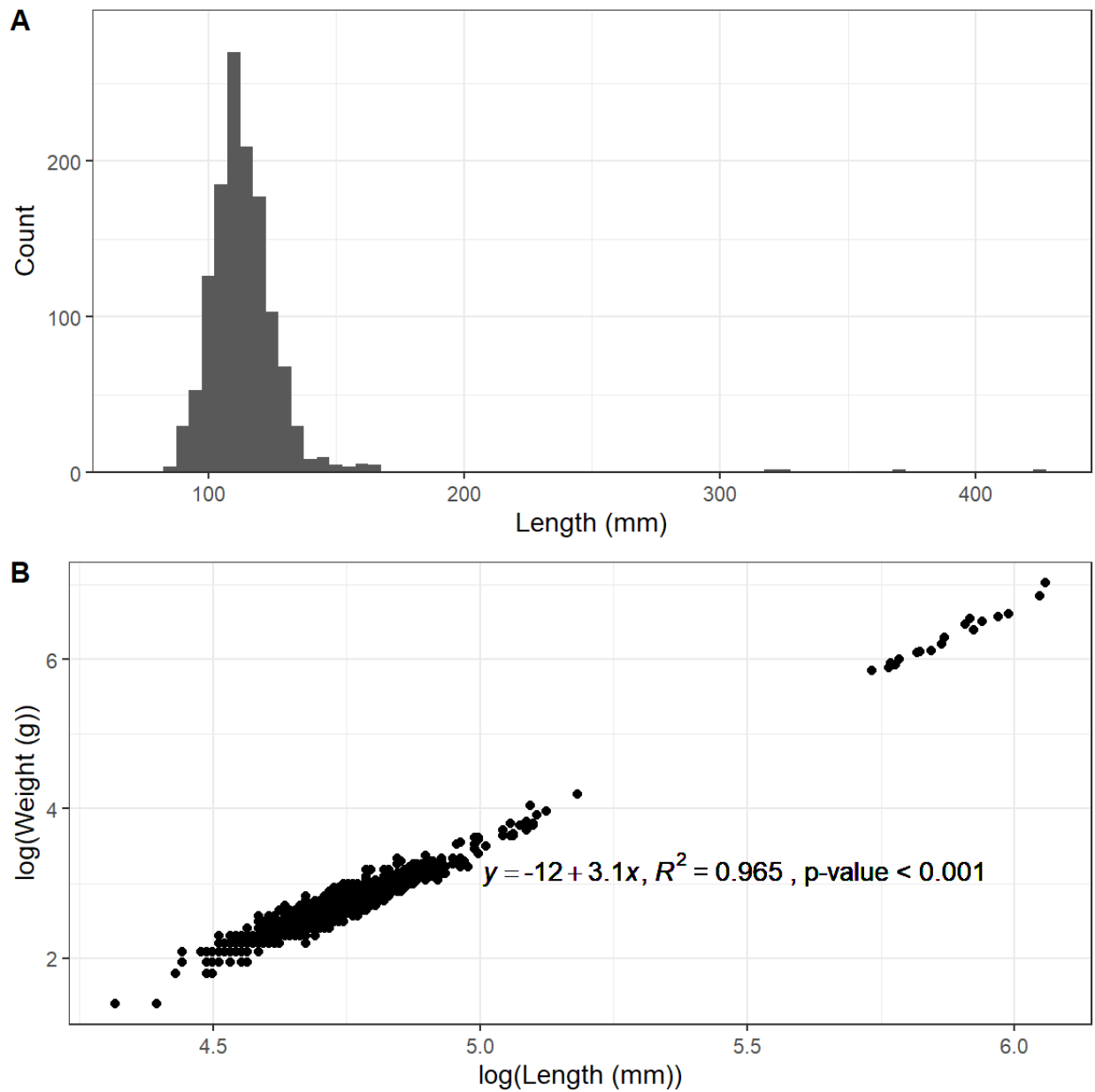


Figure 6. Chum Salmon (*Oncorhynchus keta*) length frequency plot as sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025 (A). Double log-transformed length-weight regression with outliers removed, using a Bonferroni outlier test (B).

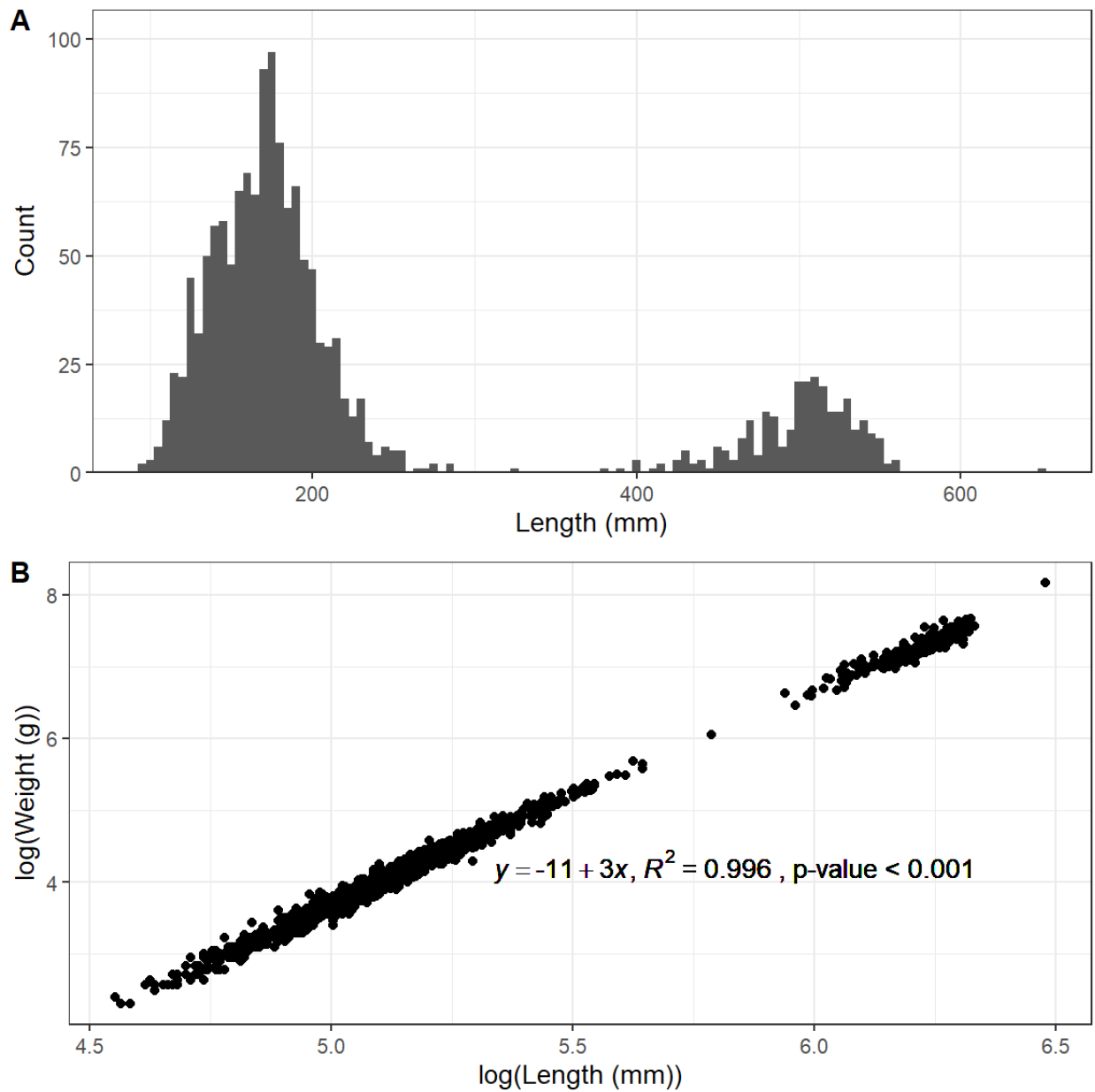


Figure 7. Coho Salmon (*Oncorhynchus kisutch*) length frequency plot as sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025 (A). Double log-transformed length-weight regression with outliers removed, using a Bonferroni outlier test (B).

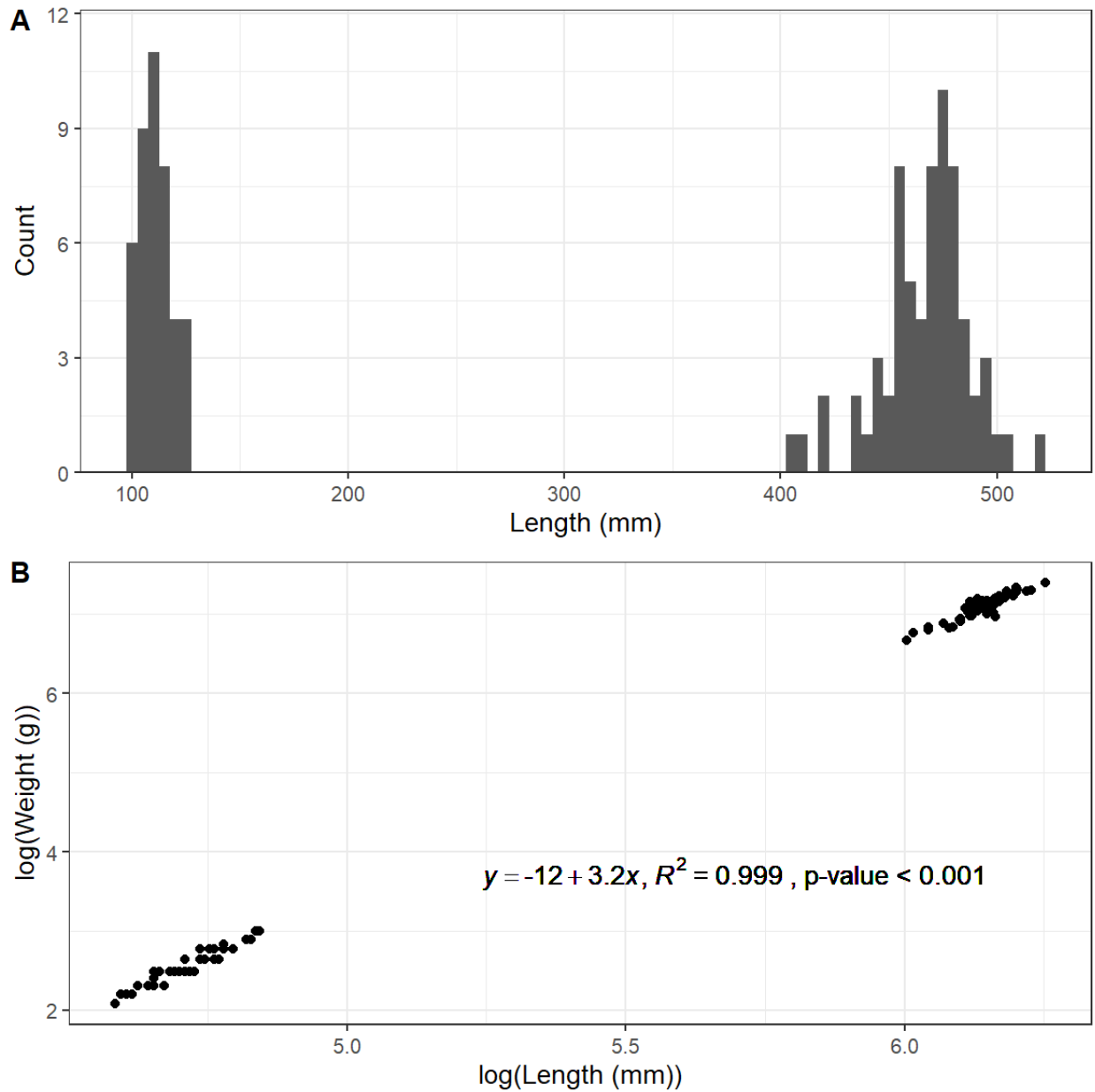


Figure 8. Pink Salmon (*Oncorhynchus gorbusha*) length frequency plot as sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025 (A). Double log-transformed length-weight regression with outliers removed, using a Bonferroni outlier test (B).

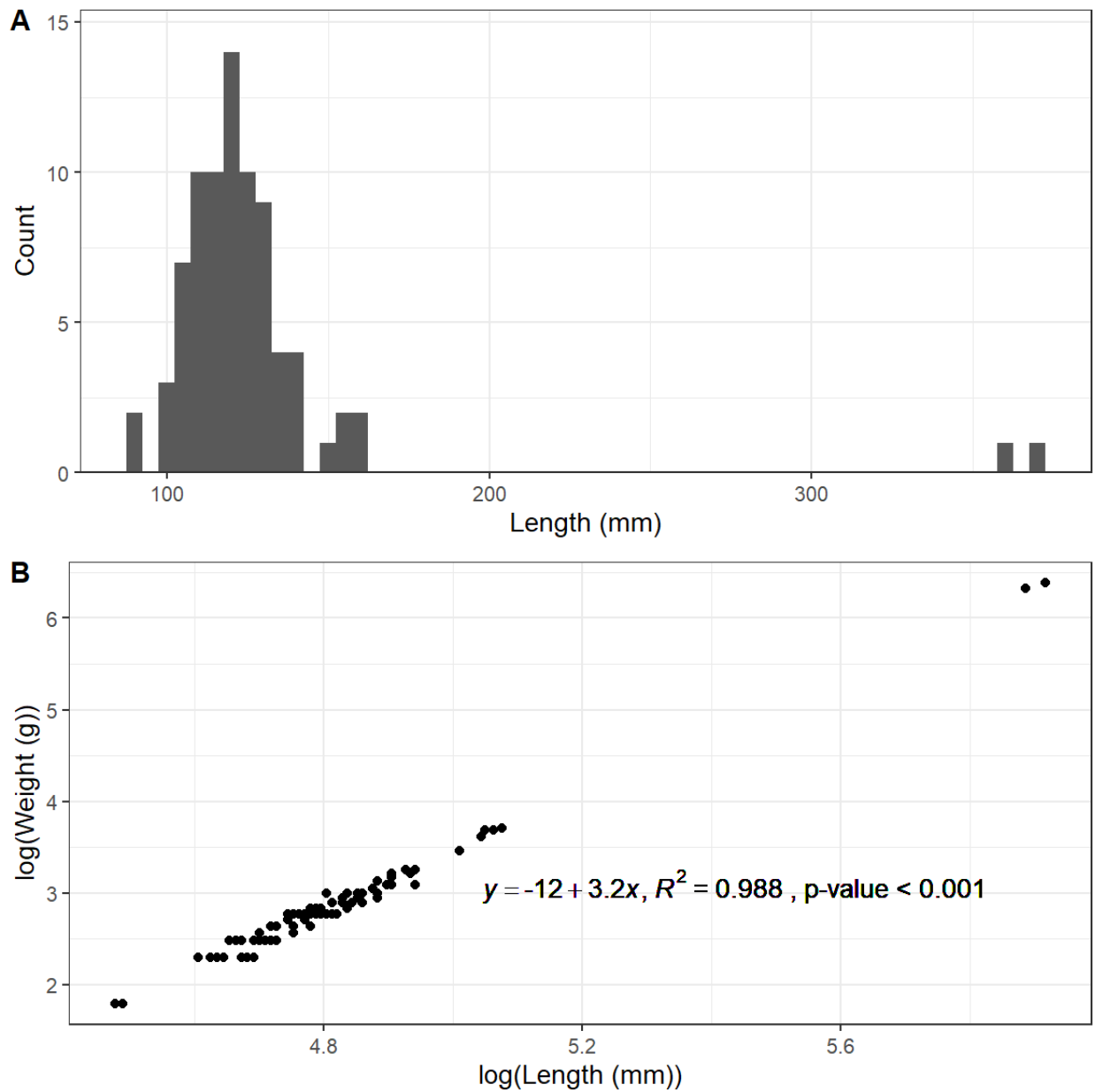


Figure 9. Sockeye Salmon (*Oncorhynchus nerka*) length frequency plot as sampled during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025 (A). Double log-transformed length-weight regression with outliers removed, using a Bonferroni outlier test (B).

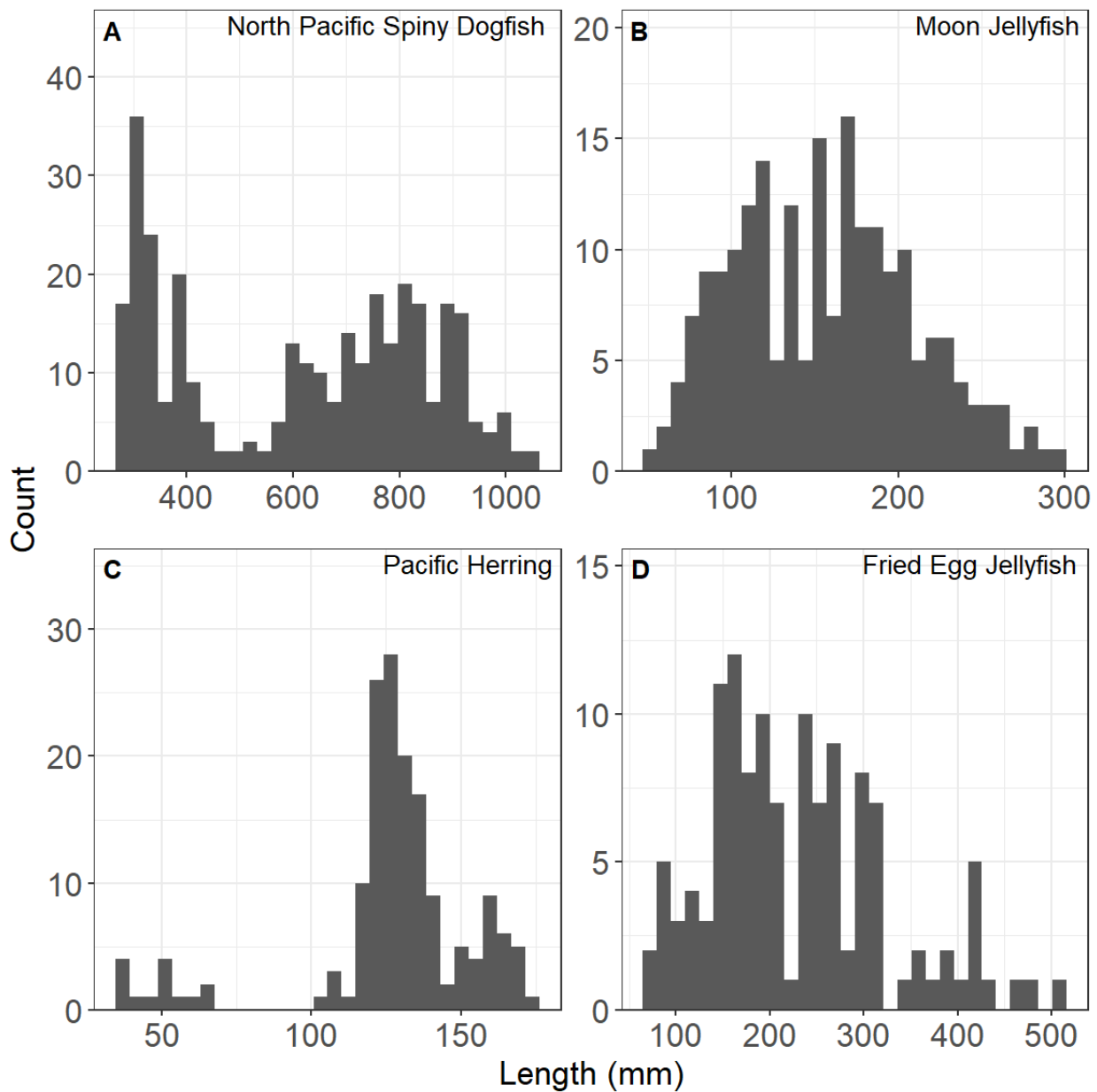


Figure 10. Length (mm) frequency plots for common species sampled ($n > 50$ samples) during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. (A) North Pacific Spiny Dogfish (*Squalus suckleyi*), length = Total Length, (B) Moon Jellyfish (*Aurelia labiata*), length = Bell Diameter, (C) Pacific Herring (*Clupea pallasii*), length = Standard Length, (D) Fried Egg Jellyfish (*Phacellophora camtschatica*), length = Bell Diameter.

9 NET SPECIFICATIONS

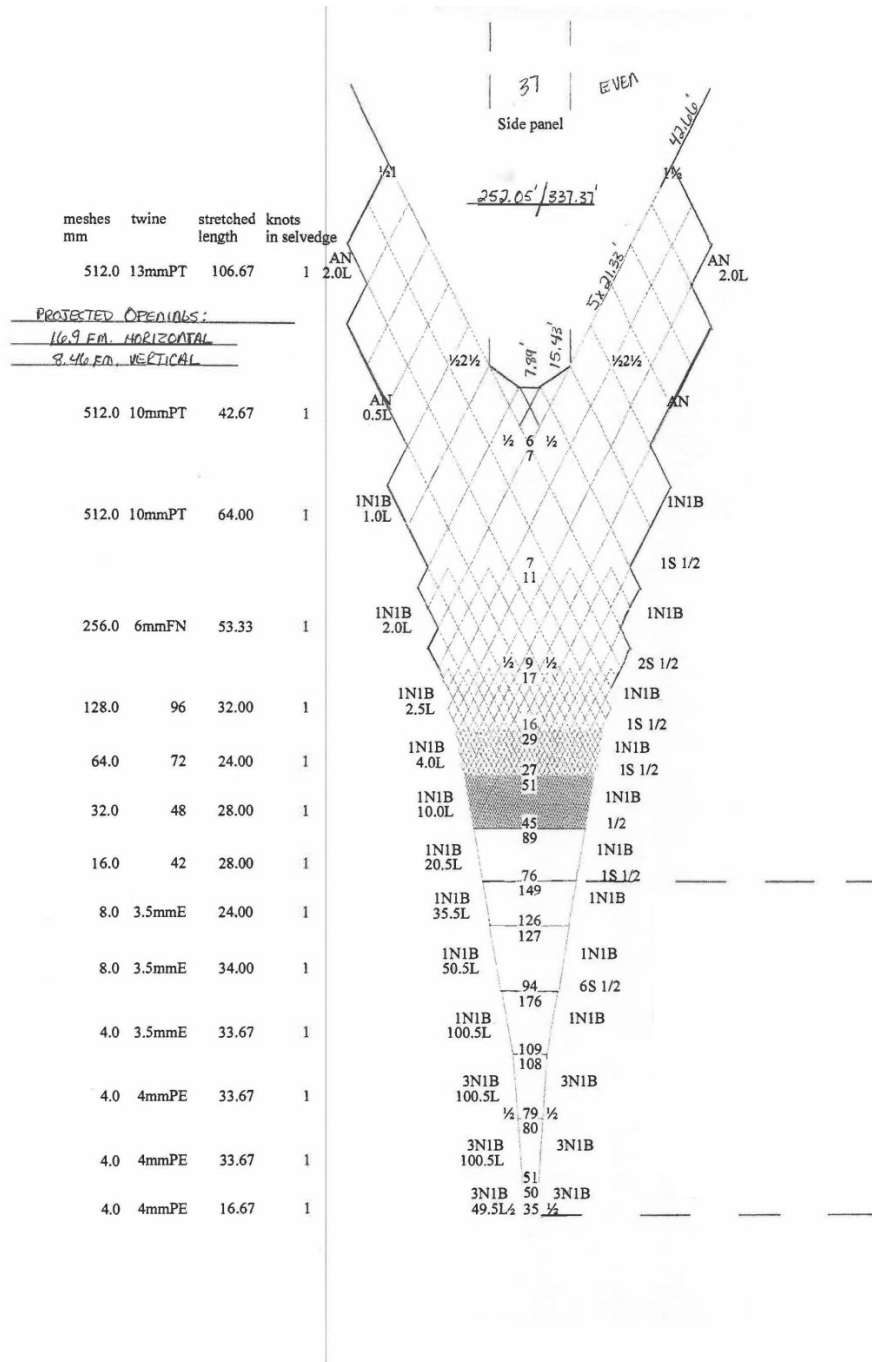


Figure 11. Net specifications (side view) for the LFS 7742 trawl net used during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin*.

10 THE BEAUFORT SCALE

Table 5. The Beaufort Scale used to describe weather conditions.

Force	Description	Wind Speed (knots)	Sea State
0	Calm	<1	Sea like mirror
1	Light Air	1-3	Ripples; no foam crests
2	Light Breeze	4-6	Small wavelets
3	Gentle Breeze	7-10	Crests breaking
4	Moderate Breeze	11-16	Whitecaps
5	Fresh Breeze	17-21	Moderate waves - spray
6	Strong Breeze	22-27	Large waves
7	Moderate Gale	28-33	Sea heaps up
8	Fresh Gale	34-40	Moderately high waves
9	Strong Gale	41-47	High waves; spray
10	Whole Gale	48-55	Overhanging crests; sea white
11	Storm	56-63	Exceptionally high waves
12	Hurricane	64-118	Sea white

11 TRAWL BRIDGE LOG DATA

Table 6. Bridge log information for trawl tows during the ecosystem-based juvenile Pacific Salmon survey aboard the CCGS *Sir John Franklin*, June 16 to July 01, 2025. Area indicates Bute Inlet (BUTE), Desolation Sound (DESO), Discovery Passage (DISC), Jervis Inlet (JERV), Johnstone Strait (JS), Queen Charlotte Strait (QCS) or Strait of Georgia (SOG). STL indicates if the tow occurred along the standard trackline of the historical survey time series (Y = Yes, N = No)

Station Name	SOG01	SOG02	SOG04	SOG03	SOG09	SOG08
Tow	1	2	3	4	5	6
Event Number	4	7	10	11	12	13
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	Y	Y
Date (Pacific)	2025-06-17	2025-06-17	2025-06-18	2025-06-18	2025-06-18	2025-06-18
Start Time (Pacific)	08:25	16:16	08:25	10:05	11:53	13:02
Start Latitude	48° 49' 03" N	48° 51' 00" N	48° 56' 35" N	48° 54' 02" N	49° 01' 39" N	49° 05' 17" N
Start Longitude	123° 02' 49" W	123° 10' 22" W	123° 22' 35" W	123° 16' 57" W	123° 15' 19" W	123° 23' 01" W
End Latitude	48° 49' 54" N	48° 52' 01" N	48° 56' 17" N	48° 53' 21" N	49° 02' 27" N	49° 06' 33" N
End Longitude	123° 04' 22" W	123° 11' 57" W	123° 20' 39" W	123° 15' 14" W	123° 16' 50" W	123° 25' 10" W
Target Headrope Depth (m)	0	15	15	0	15	30
Median Headrope Depth (m)	4	12	16	5	15	31
Start Bottom Depth (m)	191	208	185	190	91	214
End Bottom Depth (m)	202	172	194	194	96	258
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	20	20	21	31
Direction of Tow (deg)	305	310	099	117	305	308
Vessel Speed (km/h)	7.3	8.1	7.2	7.3	7.1	7.0
Distance Towed (km)	2.45	2.70	2.42	2.44	2.39	3.52
Net Opening Width (m)	50	50	53	47	50	57
Net Opening Height (m)	15	12	12	18	13	12
Warp Length (m)	200	240	240	200	240	320
Beaufort Scale	2	2	2	2	2	2
Water Temperature (5m, °C)	10.9	12.6	12.6	12.1	13.6	12.8
Median Temp at Headrope (°C)	11.8	11.4	10.7	12.3	10.6	9.8
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG05	SOG06	SOG07	SOG12	SOG10	SOG11
Tow	7	8	9	10	11	12
Event Number	16	17	20	23	24	27
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	N	Y	N	N	Y	Y
Date (Pacific)	2025-06-18	2025-06-18	2025-06-19	2025-06-19	2025-06-19	2025-06-19
Start Time (Pacific)	15:26	16:46	08:00	10:22	11:50	13:19
Start Latitude	49° 02' 03" N	49° 03' 32" N	49° 09' 40" N	49° 11' 02" N	49° 09' 07" N	49° 13' 07" N
Start Longitude	123° 27' 32" W	123° 34' 13" W	123° 34' 09" W	123° 25' 52" W	123° 19' 05" W	123° 18' 25" W
End Latitude	49° 02' 31" N	49° 05' 39" N	49° 10' 19" N	49° 09' 40" N	49° 10' 24" N	49° 14' 31" N
End Longitude	123° 29' 34" W	123° 35' 14" W	123° 32' 16" W	123° 25' 09" W	123° 18' 48" W	123° 18' 20" W
Target Headrope Depth (m)	0	30	0	15	15	0
Median Headrope Depth (m)	5	28	5	18	18	5
Start Bottom Depth (m)	334	206	395	292	120	125
End Bottom Depth (m)	319	228	357	238	121	136
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	30	21	20	19	20
Direction of Tow (deg)	285	338	058	157	004	358
Vessel Speed (km/h)	7.8	8.2	7.7	8.0	7.6	7.8
Distance Towed (km)	2.64	4.10	2.59	2.67	2.40	2.60
Net Opening Width (m)	46	56	47	52	52	49
Net Opening Height (m)	20	12	19	12	12	20
Warp Length (m)	200	320	200	250	240	200
Beaufort Scale	3	3	2	1	1	2
Water Temperature (5m, °C)	13.2	13.0	13.9	14.8	14.8	15.0
Median Temp at Headrope (°C)	13.3	9.8	13.5	11.5	10.7	14.7
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG13	SOG15	SOG14	SOG16	SOG18	SOG20
Tow	13	14	15	16	17	18
Event Number	28	29	32	33	36	37
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	Y	Y
Date (Pacific)	2025-06-19	2025-06-19	2025-06-20	2025-06-20	2025-06-20	2025-06-20
Start Time (Pacific)	14:56	15:59	07:50	09:42	11:41	12:48
Start Latitude	49° 14' 30" N	49° 12' 53" N	49° 11' 19" N	49° 13' 02" N	49° 15' 38" N	49° 17' 27" N
Start Longitude	123° 29' 02" W	123° 34' 38" W	123° 43' 36" W	123° 49' 48" W	123° 43' 20" W	123° 40' 51" W
End Latitude	49° 14' 03" N	49° 12' 07" N	49° 11' 24" N	49° 13' 46" N	49° 16' 15" N	49° 18' 03" N
End Longitude	123° 32' 00" W	123° 36' 38" W	123° 41' 16" W	123° 47' 45" W	123° 41' 17" W	123° 37' 49" W
Target Headrope Depth (m)	30	0	0	15	15	30
Median Headrope Depth (m)	31	8	5	14	16	28
Start Bottom Depth (m)	317	373	196	123	403	276
End Bottom Depth (m)	349	382	234	177	375	285
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	31	21	20	20	20	29
Direction of Tow (deg)	253	236	083	057	061	069
Vessel Speed (km/h)	7.3	8.1	8.4	8.5	8.2	7.7
Distance Towed (km)	3.71	2.82	2.84	2.84	2.73	3.84
Net Opening Width (m)	57	44	44	48	52	56
Net Opening Height (m)	12	17	18	12	12	12
Warp Length (m)	325	200	200	240	240	325
Beaufort Scale	2	2	3	3	3	2
Water Temperature (5m, °C)	14.6	14.1	13.8	14.5	14.0	14.6
Median Temp at Headrope (°C)	10.3	14.0	14.2	12.0	10.3	9.2
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG21	SOG22	SOG24	SOG19	SOG25	SOG17
Tow	19	20	21	22	23	24
Event Number	40	41	42	45	48	49
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	N	Y	N
Date (Pacific)	2025-06-20	2025-06-20	2025-06-20	2025-06-21	2025-06-21	2025-06-21
Start Time (Pacific)	14:37	15:48	16:52	08:55	11:14	13:09
Start Latitude	49° 21' 14" N	49° 23' 12" N	49° 25' 09" N	49° 18' 41" N	49° 22' 55" N	49° 16' 10" N
Start Longitude	123° 33' 04" W	123° 40' 14" W	123° 47' 36" W	123° 46' 35" W	123° 53' 33" W	124° 01' 09" W
End Latitude	49° 21' 53" N	49° 23' 45" N	49° 25' 35" N	49° 19' 25" N	49° 23' 44" N	49° 16' 35" N
End Longitude	123° 35' 00" W	123° 42' 20" W	123° 49' 46" W	123° 48' 23" W	123° 55' 22" W	123° 59' 13" W
Target Headrope Depth (m)	0	15	15	0	15	0
Median Headrope Depth (m)	5	17	16	6	15	7
Start Bottom Depth (m)	183	177	107	308	229	153
End Bottom Depth (m)	177	176	196	365	297	274
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	20	20	20	20
Direction of Tow (deg)	293	288	283	298	301	068
Vessel Speed (km/h)	7.8	8.3	8.2	7.7	8.1	7.3
Distance Towed (km)	2.61	2.74	2.75	2.58	2.68	2.46
Net Opening Width (m)	47	50	49	45	56	46
Net Opening Height (m)	19	12	12	19	12	20
Warp Length (m)	200	240	240	200	245	200
Beaufort Scale	2	1	1	4	3	2
Water Temperature (5m, °C)	14.0	14.2	13.4	14.7	13.7	13.3
Median Temp at Headrope (°C)	13.8	11.1	11.5	14.7	12.1	13.2
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG26	SOG57	SOG28	SOG29	SOG30	SOG31
Tow	25	26	27	28	29	30
Event Number	52	53	54	57	58	61
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	N	Y	Y	Y	Y	Y
Date (Pacific)	2025-06-21	2025-06-21	2025-06-21	2025-06-22	2025-06-22	2025-06-22
Start Time (Pacific)	15:17	16:29	18:02	08:35	09:43	11:18
Start Latitude	49° 22' 21" N	49° 24' 23" N	49° 22' 24" N	49° 25' 35" N	49° 23' 59" N	49° 23' 38" N
Start Longitude	124° 06' 31" W	124° 08' 10" W	124° 14' 45" W	124° 20' 19" W	124° 22' 24" W	124° 28' 23" W
End Latitude	49° 22' 52" N	49° 23' 43" N	49° 21' 48" N	49° 24' 08" N	49° 24' 40" N	49° 24' 11" N
End Longitude	124° 08' 41" W	124° 10' 55" W	124° 16' 40" W	124° 20' 29" W	124° 24' 14" W	124° 30' 11" W
Target Headrope Depth (m)	0	30	15	0	15	0
Median Headrope Depth (m)	5	28	16	6	14	5
Start Bottom Depth (m)	255	245	323	340	309	123
End Bottom Depth (m)	283	327	250	346	331	150
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	30	20	20	20	20
Direction of Tow (deg)	287	246	240	181	296	292
Vessel Speed (km/h)	8.4	7.2	7.7	8.1	7.6	7.2
Distance Towed (km)	2.79	3.55	2.58	2.69	2.55	2.42
Net Opening Width (m)	47	56	50	46	50	47
Net Opening Height (m)	18	12	12	17	12	16
Warp Length (m)	200	325	240	200	240	200
Beaufort Scale	3	2	2	2	3	3
Water Temperature (5m, °C)	14.1	15.0	14.6	14.1	14.1	13.4
Median Temp at Headrope (°C)	14.1	10.3	11.5	14.1	11.7	13.8
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG32	SOG34	SOG44	SOG46	SOG51	SOG50
Tow	31	32	33	34	35	36
Event Number	62	65	66	67	70	73
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	Y	N
Date (Pacific)	2025-06-22	2025-06-22	2025-06-22	2025-06-22	2025-06-23	2025-06-23
Start Time (Pacific)	12:28	14:38	16:07	17:29	07:46	09:26
Start Latitude	49° 26' 04" N	49° 31' 37" N	49° 34' 28" N	49° 36' 54" N	49° 35' 11" N	49° 35' 57" N
Start Longitude	124° 34' 41" W	124° 27' 01" W	124° 23' 21" W	124° 27' 52" W	124° 44' 02" W	124° 36' 56" W
End Latitude	49° 27' 08" N	49° 32' 52" N	49° 35' 13" N	49° 37' 46" N	49° 35' 20" N	49° 36' 35" N
End Longitude	124° 37' 24" W	124° 25' 50" W	124° 25' 07" W	124° 29' 34" W	124° 41' 51" W	124° 35' 03" W
Target Headrope Depth (m)	30	0	15	15	15	15
Median Headrope Depth (m)	32	5	13	15	17	16
Start Bottom Depth (m)	131	137	345	337	78	154
End Bottom Depth (m)	115	138	337	334	121	100
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	30	20	20	20	20	20
Direction of Tow (deg)	298	028	300	304	081	059
Vessel Speed (km/h)	7.6	8.2	7.6	7.8	7.8	7.6
Distance Towed (km)	3.83	2.73	2.54	2.60	2.65	2.55
Net Opening Width (m)	57	44	50	48	58	53
Net Opening Height (m)	12	17	13	13	13	13
Warp Length (m)	320	200	240	240	240	240
Beaufort Scale	3	3	3	3	2	3
Water Temperature (5m, °C)	13.5	15.6	15.8	16.0	13.8	14.9
Median Temp at Headrope (°C)	10.2	16.4	13.5	14.1	11.6	11.3
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG47	SOG49	SOG48	SOG52	SOG53	SOG55
Tow	37	38	39	40	41	42
Event Number	74	77	78	79	80	83
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	Y	Y
Date (Pacific)	2025-06-23	2025-06-23	2025-06-23	2025-06-23	2025-06-23	2025-06-24
Start Time (Pacific)	10:42	12:50	14:12	15:28	16:51	07:50
Start Latitude	49° 40' 13" N	49° 42' 41" N	49° 41' 05" N	49° 37' 42" N	49° 41' 17" N	49° 46' 15" N
Start Longitude	124° 33' 22" W	124° 39' 56" W	124° 40' 03" W	124° 47' 18" W	124° 48' 03" W	124° 52' 27" W
End Latitude	49° 40' 53" N	49° 40' 51" N	49° 40' 37" N	49° 39' 08" N	49° 42' 37" N	49° 46' 10" N
End Longitude	124° 35' 26" W	124° 38' 25" W	124° 42' 15" W	124° 47' 21" W	124° 48' 24" W	124° 50' 13" W
Target Headrope Depth (m)	0	30	0	0	15	15
Median Headrope Depth (m)	5	32	5	5	15	16
Start Bottom Depth (m)	247	332	190	48	14	105
End Bottom Depth (m)	276	183	175	68	114	184
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	31	20	20	20	21
Direction of Tow (deg)	293	148	249	356	347	090
Vessel Speed (km/h)	8.3	7.4	8.4	8.0	7.5	8.0
Distance Towed (km)	2.78	3.86	2.78	2.66	2.49	2.68
Net Opening Width (m)	45	58	46	45	52	50
Net Opening Height (m)	18	12	18	18	13	12
Warp Length (m)	200	320	200	200	240	240
Beaufort Scale	4	2	3	3	3	1
Water Temperature (5m, °C)	14.7	15.2	14.9	13.8	13.9	14.5
Median Temp at Headrope (°C)	15.3	10.1	15.5	12.8	12.1	11.5
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG54	SOG60	SOG44	SOG42	SOG41	SOG79
Tow	43	44	45	46	47	48
Event Number	84	87	88	91	92	95
Area	SOG	SOG	SOG	SOG	SOG	JERV
STL	Y	Y	Y	Y	Y	N
Date (Pacific)	2025-06-24	2025-06-24	2025-06-24	2025-06-24	2025-06-24	2025-06-25
Start Time (Pacific)	09:07	10:59	12:27	14:38	15:55	08:06
Start Latitude	49° 44' 40" N	49° 48' 17" N	49° 50' 15" N	49° 45' 42" N	49° 44' 40" N	49° 46' 07" N
Start Longitude	124° 46' 16" W	124° 44' 54" W	124° 34' 49" W	124° 25' 55" W	124° 19' 32" W	124° 10' 51" W
End Latitude	49° 43' 37" N	49° 49' 35" N	49° 48' 54" N	49° 45' 03" N	49° 43' 36" N	49° 45' 48" N
End Longitude	124° 44' 40" W	124° 44' 38" W	124° 33' 52" W	124° 24' 07" W	124° 18' 15" W	124° 13' 19" W
Target Headrope Depth (m)	0	15	0	0	15	0
Median Headrope Depth (m)	5	15	9	5	16	5
Start Bottom Depth (m)	322	235	234	220	143	472
End Bottom Depth (m)	324	180	240	259	146	403
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	21	20	21	20	20	20
Direction of Tow (deg)	132	004	152	116	139	255
Vessel Speed (km/h)	8.2	7.3	8.2	7.4	7.5	9.1
Distance Towed (km)	2.74	2.42	2.76	2.49	2.51	3.04
Net Opening Width (m)	45	54	46	45	52	44
Net Opening Height (m)	21	12	19	21	13	20
Warp Length (m)	200	240	200	200	240	200
Beaufort Scale	1	1	1	2	2	1
Water Temperature (5m, °C)	15.1	15.9	15.9	15.8	15.9	16.0
Median Temp at Headrope (°C)	15.6	13.4	16.5	16.2	13.7	16.3
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG40	SOG39	SOG38	SOG37	SOG35	SOG36
Tow	49	50	51	52	53	54
Event Number	98	99	100	101	104	105
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	Y	Y
Date (Pacific)	2025-06-25	2025-06-25	2025-06-25	2025-06-25	2025-06-25	2025-06-25
Start Time (Pacific)	10:03	11:24	12:38	13:38	15:34	16:57
Start Latitude	49° 41' 00" N	49° 38' 48" N	49° 36' 43" N	49° 33' 36" N	49° 29' 45" N	49° 28' 30" N
Start Longitude	124° 17' 17" W	124° 13' 51" W	124° 07' 47" W	124° 07' 01" W	124° 05' 07" W	124° 01' 15" W
End Latitude	49° 42' 05" N	49° 37' 48" N	49° 35' 25" N	49° 31' 42" N	49° 28' 39" N	49° 27' 37" N
End Longitude	124° 18' 34" W	124° 12' 07" W	124° 06' 50" W	124° 06' 01" W	124° 03' 54" W	123° 59' 54" W
Target Headrope Depth (m)	0	15	15	30	0	0
Median Headrope Depth (m)	9	18	16	30	7	24
Start Bottom Depth (m)	232	354	176	368	353	150
End Bottom Depth (m)	285	359	297	389	323	185
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	20	30	20	20
Direction of Tow (deg)	319	128	151	158	141	131
Vessel Speed (km/h)	7.6	8.3	8.0	7.4	7.6	6.9
Distance Towed (km)	2.52	2.79	2.67	3.71	2.52	2.30
Net Opening Width (m)	46	50	50	57	50	52
Net Opening Height (m)	19	13	12	12	20	13
Warp Length (m)	200	240	240	320	200	200
Beaufort Scale	2	4	4	4	4	4
Water Temperature (5m, °C)	16.2	16.2	15.9	15.4	15.7	16.1
Median Temp at Headrope (°C)	15.7	11.1	11.6	9.7	15.5	9.8
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG56	SOG57	SOG59	SOG58	SOG62	SOG61
Tow	55	56	57	58	59	60
Event Number	108	111	112	113	116	117
Area	SOG	SOG	SOG	SOG	SOG	SOG
STL	Y	Y	Y	Y	N	N
Date (Pacific)	2025-06-26	2025-06-26	2025-06-26	2025-06-26	2025-06-26	2025-06-26
Start Time (Pacific)	07:27	09:37	10:50	12:28	14:13	15:54
Start Latitude	49° 48' 35" N	49° 52' 20" N	49° 51' 37" N	49° 55' 20" N	49° 54' 11" N	49° 53' 10" N
Start Longitude	124° 58' 26" W	124° 58' 24" W	124° 49' 40" W	124° 53' 32" W	124° 46' 38" W	124° 37' 22" W
End Latitude	49° 49' 48" N	49° 51' 25" N	49° 52' 39" N	49° 56' 10" N	49° 53' 42" N	49° 53' 59" N
End Longitude	124° 59' 47" W	124° 56' 47" W	124° 51' 05" W	124° 55' 19" W	124° 43' 33" W	124° 39' 37" W
Target Headrope Depth (m)	0	15	0	15	30	0
Median Headrope Depth (m)	6	21	6	16	33	6
Start Bottom Depth (m)	84	306	184	111	113	80
End Bottom Depth (m)	116	297	209	179	120	139
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	20	20	30	20
Direction of Tow (deg)	321	128	315	303	100	296
Vessel Speed (km/h)	8.2	7.7	7.6	7.8	7.6	9.2
Distance Towed (km)	2.76	2.58	2.55	2.63	3.80	3.08
Net Opening Width (m)	48	52	45	42	57	50
Net Opening Height (m)	20	13	21	11	13	18
Warp Length (m)	200	240	200	240	310	200
Beaufort Scale	2	3	3	2	3	2
Water Temperature (5m, °C)	13.8	15.5	15.9	16.1	16.2	15.9
Median Temp at Headrope (°C)	13.1	11.8	16.6	15.2	10.1	16.5
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG63	SOG64	SOG65	SOG66	SOG67	SOG69
Tow	61	62	63	64	65	66
Event Number	118	119	122	123	124	127
Area	SOG	SOG	SOG	DESO	DESO	DESO
STL	N	Y	N	N	N	N
Date (Pacific)	2025-06-26	2025-06-27	2025-06-27	2025-06-27	2025-06-27	2025-06-27
Start Time (Pacific)	17:59	07:45	10:00	11:58	13:25	15:24
Start Latitude	49° 58' 00" N	50° 00' 46" N	50° 03' 25" N	50° 09' 07" N	50° 15' 22" N	50° 18' 05" N
Start Longitude	124° 46' 57" W	124° 57' 54" W	124° 52' 21" W	124° 43' 44" W	124° 37' 25" W	124° 46' 52" W
End Latitude	49° 58' 33" N	49° 59' 26" N	50° 04' 28" N	50° 09' 32" N	50° 16' 38" N	50° 17' 54" N
End Longitude	124° 49' 06" W	124° 58' 32" W	124° 50' 08" W	124° 41' 42" W	124° 38' 48" W	124° 48' 52" W
Target Headrope Depth (m)	15	0	30	15	0	15
Median Headrope Depth (m)	17	5	30	17	5	16
Start Bottom Depth (m)	153	106	466	606	507	501
End Bottom Depth (m)	179	140	506	695	715	506
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	31	20	21	20
Direction of Tow (deg)	289	194	051	069	322	259
Vessel Speed (km/h)	8.3	7.7	6.5	7.6	8.2	7.2
Distance Towed (km)	2.77	2.58	3.28	2.55	2.88	2.40
Net Opening Width (m)	49	46	56	50	45	51
Net Opening Height (m)	12	18	12	12	18	13
Warp Length (m)	240	200	320	240	200	240
Beaufort Scale	3	2	3	2	1	1
Water Temperature (5m, °C)	15.6	16.0	15.7	16.1	16.4	15.9
Median Temp at Headrope (°C)	12.7	16.7	10.2	13.9	16.5	14.0
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG68	SOG80	SOG70	SOG71	SOG72	SOG73
Tow	67	68	69	70	71	72
Event Number	130	133	134	135	138	139
Area	DESO	BUTE	DISC	DESO	DESO	SOG
STL	N	N	N	N	N	N
Date (Pacific)	2025-06-27	2025-06-28	2025-06-28	2025-06-28	2025-06-28	2025-06-28
Start Time (Pacific)	17:44	07:54	09:43	10:47	12:51	14:02
Start Latitude	50° 22' 42" N	50° 23' 27" N	50° 17' 05" N	50° 12' 55" N	50° 09' 15" N	50° 05' 51" N
Start Longitude	124° 41' 41" W	125° 04' 36" W	125° 02' 31" W	125° 00' 50" W	125° 02' 47" W	125° 07' 52" W
End Latitude	50° 24' 01" N	50° 24' 58" N	50° 15' 58" N	50° 11' 33" N	50° 07' 55" N	50° 04' 20" N
End Longitude	124° 40' 29" W	125° 04' 39" W	125° 01' 01" W	125° 00' 17" W	125° 05' 45" W	125° 07' 42" W
Target Headrope Depth (m)	0	0	15	0	30	15
Median Headrope Depth (m)	6	6	29	6	32	24
Start Bottom Depth (m)	495	650	421	530	454	230
End Bottom Depth (m)	491	655	497	417	176	252
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	21	20	30	20
Direction of Tow (deg)	027	356	136	163	232	173
Vessel Speed (km/h)	8.4	8.5	8.1	7.8	8.7	8.4
Distance Towed (km)	2.81	2.83	2.71	2.61	4.31	2.82
Net Opening Width (m)	46	45	58	46	57	55
Net Opening Height (m)	20	19	14	22	12	13
Warp Length (m)	200	200	240	200	320	240
Beaufort Scale	2	0	2	2	2	2
Water Temperature (5m, °C)	15.8	14.5	15.2	15.5	15.8	15.7
Median Temp at Headrope (°C)	15.7	14.3	10.5	16.1	10.1	11.5
Usable	Y	Y	Y	Y	Y	Y

Station Name	SOG74	SOG75	SOG77	JS01	JS02	JS04
Tow	73	74	75	76	77	78
Event Number	142	143	146	147	150	151
Area	SOG	SOG	DISC	DISC	DISC	JS
STL	Y	Y	N	N	N	N
Date (Pacific)	2025-06-28	2025-06-28	2025-06-29	2025-06-29	2025-06-29	2025-06-29
Start Time (Pacific)	15:44	17:29	07:35	09:18	12:35	15:06
Start Latitude	50° 02' 01" N	49° 58' 01" N	50° 15' 40" N	50° 23' 04" N	50° 27' 46" N	50° 30' 50" N
Start Longitude	125° 05' 25" W	125° 08' 10" W	125° 23' 33" W	125° 34' 26" W	126° 00' 42" W	126° 35' 29" W
End Latitude	50° 01' 36" N	49° 58' 01" N	50° 17' 01" N	50° 22' 38" N	50° 27' 59" N	50° 31' 04" N
End Longitude	125° 04' 55" W	125° 08' 10" W	125° 24' 17" W	125° 37' 03" W	126° 03' 08" W	126° 37' 25" W
Target Headrope Depth (m)	15	0	0	0	0	0
Median Headrope Depth (m)	19		6	6	24	6
Start Bottom Depth (m)	265	144	241	215	177	387
End Bottom Depth (m)	249	144	215	262	266	429
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	8	0	20	20	20	21
Direction of Tow (deg)	139	126	338	253	275	279
Vessel Speed (km/h)	7.3	10.6	7.9	9.6	8.9	7.0
Distance Towed (km)	0.96	0.00	2.66	3.20	2.92	2.33
Net Opening Width (m)	55	50	52	55	47	47
Net Opening Height (m)	13	19	21	21	15	21
Warp Length (m)	240	200	200	200	200	200
Beaufort Scale	2	1	3	2	4	4
Water Temperature (5m, °C)	16.2	12.0	10.3	9.7	9.2	9.2
Median Temp at Headrope (°C)	15.3		10.9	10.3	9.5	9.8
Usable	Y	N	Y	Y	Y	Y

Station Name	QCST01	QCST02	QCST04	QCST03	QCST06	QCST05
Tow	79	80	81	82	83	84
Event Number	152	155	156	157	160	161
Area	QCS	QCS	QCS	QCS	QCS	QCS
STL	N	N	N	N	N	N
Date (Pacific)	2025-06-30	2025-06-30	2025-06-30	2025-06-30	2025-06-30	2025-06-30
Start Time (Pacific)	07:40	09:50	11:42	13:22	15:35	16:54
Start Latitude	50° 39' 54" N	50° 43' 51" N	50° 42' 17" N	50° 48' 14" N	50° 50' 09" N	50° 45' 17" N
Start Longitude	126° 48' 26" W	126° 52' 38" W	127° 09' 06" W	127° 00' 17" W	127° 13' 09" W	127° 17' 04" W
End Latitude	50° 40' 39" N	50° 43' 30" N	50° 43' 05" N	50° 47' 07" N	50° 48' 46" N	50° 46' 13" N
End Longitude	126° 50' 12" W	126° 54' 51" W	127° 07' 33" W	127° 01' 29" W	127° 13' 48" W	127° 18' 33" W
Target Headrope Depth (m)	0	0	15	0	15	0
Median Headrope Depth (m)	6	6	16	5	19	6
Start Bottom Depth (m)	167	147	137	121	132	244
End Bottom Depth (m)	185	133	215	154	160	222
Net	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742	LFS 7742
Duration (min)	20	20	20	20	20	20
Direction of Tow (deg)	302	254	049	213	195	313
Vessel Speed (km/h)	7.5	8.1	7.0	7.5	8.0	7.4
Distance Towed (km)	2.50	2.70	2.35	2.50	2.66	2.46
Net Opening Width (m)	46	48	54	47	52	45
Net Opening Height (m)	21	22	13	19	12	22
Warp Length (m)	200	200	240	200	240	200
Beaufort Scale	2	1	1	2	4	4
Water Temperature (5m, °C)	8.9	8.7	8.8	8.9	9.5	9.6
Median Temp at Headrope (°C)	9.4	9.4	9.0	9.6	9.5	10.1
Usable	Y	Y	Y	Y	Y	Y

12 CTD CASTS AND ZOOPLANKTON TOWS

Table 20. CTD casts and vertical bongo tow times and depths during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin*. Blank entries indicate the event was unusable.

Date	Station	Latitude	Longitude	CTD			BONGO		
				Start Time (PDT)	Bottom Depth (m)	Gear Depth (m)	Start Time (PDT)	Bottom Depth (m)	Gear Depth (m)
2025-06-17	SOG01	48° 49' 36" N	122° 59' 16" W	07:10	222	218	07:35	220	211
2025-06-17	SOG02	48° 51' 23" N	123° 10' 47" W	15:32	179	175	15:53	179	170
2025-06-18	SOG04	48° 56' 27" N	123° 21' 55" W	07:55	194	184	08:15	192	184
2025-06-18	SOG05	49° 01' 46" N	123° 26' 08" W	15:00	319	309	14:46	319	250
2025-06-19	SOG07	49° 08' 38" N	123° 36' 44" W	07:37	143	132	07:56	139	131
2025-06-19	SOG12	49° 12' 00" N	123° 26' 22" W	09:43	308	297	10:10	307	250
2025-06-19	SOG11	49° 11' 53" N	123° 18' 29" W	12:59	113	103	13:13	115	106
2025-06-20	SOG14	49° 11' 11" N	123° 45' 14" W	07:30	124	115	07:44	120	115
2025-06-20	SOG18	49° 15' 03" N	123° 45' 00" W	10:53	400	393	11:23	403	250
2025-06-20	SOG21	49° 20' 48" N	123° 31' 35" W	14:10	171	163	14:28	170	160
2025-06-21	SOG23	49° 24' 05" N	123° 45' 19" W	07:55	135	124	08:11	135	125
2025-06-21	SOG19	49° 19' 07" N	123° 48' 01" W	10:06	345	334	10:34	344	250
2025-06-21	SOG26	49° 22' 04" N	124° 04' 58" W	14:47	247	237	15:11	246	237
2025-06-22	SOG29	49° 26' 38" N	124° 20' 12" W	08:02	320	311	08:26	320	250
2025-06-22	SOG31	49° 23' 10" N	124° 26' 56" W	10:51	132	121	11:05	132	121
2025-06-22	SOG34	49° 30' 38" N	124° 27' 52" W	14:13	193	183	14:31	193	183
2025-06-23	SOG51	49° 35' 05" N	124° 46' 00" W	07:33	58	49	07:42	58	48
2025-06-23	SOG50	49° 35' 28" N	124° 38' 18" W	09:02	168	157	09:20	167	157
2025-06-23	SOG49	49° 43' 37" N	124° 40' 49" W	12:19	354	344	12:44	354	250
2025-06-24	SOG55	49° 46' 24" N	124° 54' 02" W	07:32	72	63	07:43	72	62
2025-06-24	SOG54	49° 47' 16" N	124° 45' 00" W	10:23	245	236	10:45	247	236
2025-06-24	SOG43	49° 47' 13" N	124° 32' 25" W	13:31	316	306	13:59	316	250
2025-06-25	SOG79	49° 46' 18" N	124° 09' 15" W	07:17	598	594	07:52	601	250
2025-06-25	SOG40	49° 40' 12" N	124° 16' 23" W	09:28	352	342	09:53	351	250
2025-06-25	SOG35	49° 30' 20" N	124° 05' 57" W	14:50	423	415	15:18	424	250

Date	Station	Latitude	Longitude	CTD			BONGO		
				Start Time (PDT)	Bottom Depth (m)	Gear Depth (m)	Start Time (PDT)	Bottom Depth (m)	Gear Depth (m)
2025-06-26	SOG56	49° 47' 20" N	124° 56' 54" W	07:06	62	52	07:17	63	52
2025-06-26	SOG57	49° 53' 01" N	124° 59' 38" W	08:55	315	306	09:20	315	306
2025-06-26	SOG62	49° 54' 19" N	124° 48' 28" W	13:56	82	73	14:06	86	74
2025-06-27	SOG65	50° 02' 39" N	124° 53' 42" W	09:30	351	340	09:18	353	250
2025-06-27	SOG69	50° 18' 07" N	124° 46' 12" W	14:46	496	488	15:16	493	250
2025-06-27	SOG68	50° 21' 43" N	124° 42' 24" W	17:07	501	492	17:39	502	250
2025-06-28	SOG80	50° 22' 09" N	125° 05' 01" W	07:05	603	598	07:42	604	250
2025-06-28	SOG72	50° 09' 58" N	125° 00' 58" W	12:15	405	417	12:43	398	250
2025-06-28	SOG74	50° 02' 55" N	125° 06' 39" W	15:07	271	263	15:34	274	250
2025-06-29	SOG77	50° 14' 41" N	125° 23' 15" W	07:05	227	216	07:25	225	216
2025-06-29	JS02	50° 27' 35" N	125° 58' 56" W	12:19	92	82	12:30	91	82
2025-06-30	QCST02	50° 44' 03" N	126° 50' 24" W	09:27	135	125	09:41	134	125
2025-06-30	QCST06	50° 51' 12" N	127° 12' 46" W	15:08	131	121	15:21	132	121

13 CATCH DATA

Table 22. Weight (kg) and counts of species (or taxa) per station during the ecosystem-based juvenile Pacific Salmon survey from June 16 to July 01, 2025 on the CCGS *Sir John Franklin*. Jellyfish weights include all identified pieces but only counted if bells were intact. Counts with blank weights indicate catches too big or small to be weighed accurately.

Station Name	SOG01		SOG02		SOG04		SOG03		SOG09		SOG08		SOG05		SOG06	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.40	1	5.52	7	5.22	2	5.81	5	9.05	14	5.36	4	7.05	1		
Chinook Salmon (Juveniles)	0.52	10	5.47	105	0.14	2	3.30	74	1.43	38	0.41	12	0.28	5		
Chum Salmon (Adults)																
Chum Salmon (Juveniles)																
Coho Salmon (Adults)	24.70	18	4.14	3	10.77	8	8.55	6	1.20	1	1.22	1	8.33	5	1.48	1
Coho Salmon (Juveniles)	0.30	3	0.35	3			0.47	5	0.09	2	0.11	1	0.13	3		
Pink Salmon (Adults)	5.60	5			1.13	1	2.62	2	1.37	1						
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)													0.60	1		
Sockeye Salmon (Juveniles)																
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers		2														
Fried Egg Jellyfish	6.00		2.29	1	2.24		0.23		6.48	4	1.37		2.01	7	1.55	
Lions Mane																
Moon Jellyfish					0.19	1	0.09	1								
North Pacific Spiny Dogfish	5.60	1	3.94	1							6.08	3				
Northern Anchovy																
Opalescent Inshore Squid																
Pacific Herring		2	0.10	1			0.90	22								
Pacific Sea Nettle																
Poachers																
River Lamprey	0.04	4			0.06	1	0.11	6	0.02	1	0.04	1	0.04	2		
Rockfishes																
Sailfin Sculpin																
Soft Sculpin										2		1				
Spotted Ratfish																
Starry Flounder																
Walleye Pollock																
Water Jellyfish	0.34						0.03		0.04							
Wolf Eel																
TOTAL	43.50	46	21.81	121	19.75	15	22.11	127	19.68	62	14.59	22	18.44	24	3.03	1

Station Name	SOG07		SOG12		SOG10		SOG11		SOG13		SOG15		SOG14		SOG16	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.86	1	5.98	1	5.13	7	11.34	15	1.22	1	1.30	2	6.11	7	8.02	11
Chinook Salmon (Juveniles)			0.13	2	0.18	7	0.60	42	0.08	1			0.13	2	0.12	2
Chum Salmon (Adults)	1.10	2											2.72	4		
Chum Salmon (Juveniles)							0.05	2					0.51	33		
Coho Salmon (Adults)	7.78	6			4.85	4	5.51	4			14.74	12	9.67	7	1.75	1
Coho Salmon (Juveniles)	0.96	15			0.45	8	3.39	79	0.04	1	0.64	7	1.09	13	0.06	1
Pink Salmon (Adults)					0.93	1					3.45	3	6.84	5		
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)											0.03	2	0.01	1		
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers		1		5		1		5		2						
Fried Egg Jellyfish	5.97	4	6.01	3	2.52		4.63	1	1.70	4	0.89		4.97		3.36	
Lions Mane	3.57	2														
Moon Jellyfish			0.42	3							0.02	1	0.41	3	0.30	1
North Pacific Spiny Dogfish							0.13	1								
Northern Anchovy													0.01	1		
Opalescent Inshore Squid													0.02	1		
Pacific Herring														4		1
Pacific Sea Nettle																
Poachers						1									1	1
River Lamprey	0.03	1					0.22	17					0.05	2	0.01	1
Rockfishes																
Sailfin Sculpin																
Soft Sculpin		1														
Spotted Ratfish							0.39	1								
Starry Flounder																
Walleye Pollock																
Water Jellyfish	0.07								0.03		0.02				0.01	
Wolf Eel																
TOTAL	20.34	33	12.54	14	14.06	29	26.26	167	3.07	9	21.09	27	32.54	84	13.63	19

Station Name	SOG18		SOG20		SOG21		SOG22		SOG24		SOG19		SOG25		SOG17	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	1.16	2			0.75	1	2.86	3	0.91	1	2.39	4	6.29	2	2.39	3
Chinook Salmon (Juveniles)					0.03	1	0.84	21	0.36	13	0.19	5	0.24	7		
Chum Salmon (Adults)															1.13	1
Chum Salmon (Juveniles)																
Coho Salmon (Adults)	3.39	3	1.48	1	2.84	2	3.92	3	3.00	2	14.18	9	1.60	1	2.39	2
Coho Salmon (Juveniles)	0.39	4	0.04	1	0.57	7	0.62	9	0.79	11	0.90	12	1.22	17	1.61	15
Pink Salmon (Adults)	5.61	4			3.39	3			0.83	1	1.27	1			1.44	1
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)	0.03	1														
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers				1		1				2						1
Fried Egg Jellyfish	3.52	4	2.25	3	2.25	3	0.64		4.84		6.91		1.88		4.16	6
Lions Mane									1.82	1						
Moon Jellyfish									0.23	1						
North Pacific Spiny Dogfish					0.79	6	64.29	378					4.13	1		
Northern Anchovy																
Opalescent Inshore Squid							0.01	1								
Pacific Herring				1			0.01	1			0.60	17				
Pacific Sea Nettle																
Poachers				1		1										
River Lamprey	0.02	1							0.08	6	0.39	25			0.01	2
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock											0.56	1				
Water Jellyfish			0.08		0.01											
Wolf Eel																
TOTAL	14.12	19	3.85	8	10.63	25	73.19	416	12.86	38	27.39	74	15.36	28	13.13	31

Station Name	SOG26		SOG57		SOG28		SOG29		SOG30		SOG31		SOG32		SOG34	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)			5.26	7	2.21	4					8.37	5	0.42	1		
Chinook Salmon (Juveniles)			0.10	1									0.13	1		
Chum Salmon (Adults)	1.28	2									0.93	2			0.40	1
Chum Salmon (Juveniles)															0.02	1
Coho Salmon (Adults)	11.70	8	4.43	3	4.79	4	9.06	6	1.04	1	20.71	15	7.02	5	9.62	7
Coho Salmon (Juveniles)	1.25	13			0.97	8	0.75	6	2.26	13	1.28	9			1.94	16
Pink Salmon (Adults)					1.18	1	3.52	3	3.68	3	6.04	5	2.65	2	2.24	2
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)													0.53	1		
Sockeye Salmon (Juveniles)																
Steelhead Trout																
Codfishes				1												
Cods/Hakes/Grenadiers										1						
Fried Egg Jellyfish	9.36	4	11.00	4	7.68	6	3.69		7.09	1	6.73	1	1.05	1		
Lions Mane																
Moon Jellyfish																
North Pacific Spiny Dogfish					6.77	4	15.15	10	20.60	15					1,037.99	278
Northern Anchovy																
Opalescent Inshore Squid	0.01	2										1				
Pacific Herring	0.06	2										1				
Pacific Sea Nettle																
Poachers																
River Lamprey							0.01	1								
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock	0.31	1														
Water Jellyfish			0.03										0.02			
Wolf Eel																
TOTAL	23.97	32	20.82	16	23.60	27	32.18	26	34.67	34	44.06	39	11.82	11	1,052.21	305

Station Name	SOG44		SOG46		SOG51		SOG50		SOG47		SOG49		SOG48		SOG52	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.76	1	1.36	2	1.81	3			0.97	1					8.24	12
Chinook Salmon (Juveniles)																
Chum Salmon (Adults)			0.76	1												
Chum Salmon (Juveniles)									0.04	2						
Coho Salmon (Adults)	16.80	12	17.40	13	6.95	5	9.57	6	7.39	5	2.60	2	16.82	11	6.66	4
Coho Salmon (Juveniles)	3.86	41	1.70	16	0.25	2	0.92	6					1.06	7	0.48	5
Pink Salmon (Adults)	7.28	6					10.27	8	1.03	1			1.36	1	2.56	2
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)																
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers																
Fried Egg Jellyfish	1.68		3.62		1.25	1	1.38				2.04	2	1.68		4.08	3
Lions Mane																
Moon Jellyfish			0.06												0.06	1
North Pacific Spiny Dogfish			22.58	8			6.43	4	41.13	13	14.29	6	107.87	50		
Northern Anchovy																
Opalescent Inshore Squid													0.02	1		
Pacific Herring															0.06	1
Pacific Sea Nettle																
Poachers												1				
River Lamprey																
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock													0.38	1		
Water Jellyfish	0.08				0.25						0.08				0.76	
Wolf Eel																
TOTAL	30.46	60	47.48	40	10.51	11	28.57	24	50.56	22	19.01	11	129.19	71	22.90	28

Station Name	SOG53		SOG55		SOG54		SOG60		SOG44		SOG42		SOG41		SOG79	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	5.72	6	14.20	16	7.35	4	0.81	1	1.13	2						
Chinook Salmon (Juveniles)									0.10	1	0.39	18	0.14	7	0.63	22
Chum Salmon (Adults)																
Chum Salmon (Juveniles)													0.12	3	0.54	39
Coho Salmon (Adults)	1.56	1	44.92	30	9.56	6			2.84	2						
Coho Salmon (Juveniles)	2.54	27	0.45	4	0.69	5	0.37	3	0.19	3	8.45	154	4.99	91	1.41	43
Pink Salmon (Adults)			4.24	3	2.47	2										
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)					0.03	1					0.05	3	0.05	1	0.05	3
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers																
Fried Egg Jellyfish	6.86		0.40		3.74		2.95	5	9.93		16.78		12.98		2.16	
Lions Mane	0.18	1			3.43				1.02	1	1.13	1				
Moon Jellyfish			0.30	1	0.20				5.42	13	0.53	1			0.50	2
North Pacific Spiny Dogfish			11.93	6	27.78	8										
Northern Anchovy																
Opalescent Inshore Squid					0.02	1					0.03	1			0.11	8
Pacific Herring																
Pacific Sea Nettle																
Poachers																
River Lamprey											0.05	2			0.04	1
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock			72.31	171					1.04	3						
Water Jellyfish	0.02				0.30		0.05				0.05	6	0.01		0.10	
Wolf Eel											0.04	1				
TOTAL	16.88	35	148.75	231	55.57	27	4.18	9	21.67	25	27.50	187	18.29	102	5.54	118

Station Name	SOG40		SOG39		SOG38		SOG37		SOG35		SOG36		SOG56		SOG57	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)					1.21	1			0.49	1			2.37	4	0.60	1
Chinook Salmon (Juveniles)	0.18	11							0.04	1						
Chum Salmon (Adults)									1.82	4						
Chum Salmon (Juveniles)	3.41	214	0.10	5					0.02	1						
Coho Salmon (Adults)									6.33	4			8.81	5		
Coho Salmon (Juveniles)	3.80	73	1.03	18	0.66	10	0.26	3	17.99	246	0.78	12	1.88	16	0.14	1
Pink Salmon (Adults)																
Pink Salmon (Juveniles)	0.01	1														
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)	0.05	3			0.02	1										
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers										1		2		2		
Fried Egg Jellyfish	21.65		2.86	3	2.53	6	5.60	1	13.10		4.21		1.58		0.30	
Lions Mane	1.99	3	0.12						1.18	2			1.35	1	0.03	1
Moon Jellyfish	3.89	11			0.37	2							0.29	2		
North Pacific Spiny Dogfish								5.86	2	11.62	4				95.47	501
Northern Anchovy																
Opalescent Inshore Squid		1							0.04	2						
Pacific Herring									0.01	2				3		
Pacific Sea Nettle																
Poachers		1														
River Lamprey	0.06	2														
Rockfishes																
Sailfin Sculpin																
Soft Sculpin						1										
Spotted Ratfish																
Starry Flounder																
Walleye Pollock																
Water Jellyfish	0.10		0.02	3	0.06						0.06		0.33			
Wolf Eel	0.03	1							0.01	1	0.03	1				
TOTAL	35.17	321	4.13	29	4.85	21	11.76	7	52.65	269	5.23	19	16.61	33	96.54	504

Station Name	SOG59		SOG58		SOG62		SOG61		SOG63		SOG64		SOG65		SOG66	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)					0.88	1					0.69	1				
Chinook Salmon (Juveniles)					0.04	1	0.66	20	0.07	2			0.42	11		
Chum Salmon (Adults)							0.39	1								
Chum Salmon (Juveniles)							1.15	69			3.13	243			4.32	306
Coho Salmon (Adults)	12.37	9	3.27	2			2.96	2	0.78	1	1.53	1				
Coho Salmon (Juveniles)	0.16	1	1.55	15			10.68	171	1.16	15	2.02	25	0.12	2	0.32	9
Pink Salmon (Adults)																
Pink Salmon (Juveniles)																
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)							0.09	4								
Steelhead Trout							0.05	1								
Codfishes																
Cods/Hakes/Grenadiers				1		2										
Fried Egg Jellyfish	22.78		4.78		4.23		8.03		14.83		9.46		4.58		1.15	
Lions Mane	0.42						1.64	2	3.18	2	1.95	2	12.44	6	0.10	
Moon Jellyfish	1.47	5	0.06		0.88	3	8.80		1.01	4	2.86		2.05	13	0.65	3
North Pacific Spiny Dogfish	0.42	2													13.85	5
Northern Anchovy																
Opalescent Inshore Squid							0.10	5			0.30	17				
Pacific Herring														1		
Pacific Sea Nettle																
Poachers																
River Lamprey							0.03	2	0.02	1	0.01	1				
Rockfishes																
Sailfin Sculpin						1										
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock																
Water Jellyfish			0.04	5	0.09		0.05		0.08	6	0.60		0.04			
Wolf Eel																
TOTAL	37.62	17	9.70	23	6.12	8	34.63	277	21.13	31	22.55	290	19.65	33	20.39	323

Station Name	SOG67		SOG69		SOG68		SOG80		SOG70		SOG71		SOG72		SOG73	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.84	1			11.17	12	6.76	2			1.24	2	0.67	1	2.54	3
Chinook Salmon (Juveniles)			0.11	4	0.82	29	0.39	18	1.23	28	0.53	12				
Chum Salmon (Adults)																
Chum Salmon (Juveniles)	1.25	104	0.01	1	0.09	5	31.01	1,983	1.77	113	0.06	3				
Coho Salmon (Adults)					5.96	3					2.15	1				
Coho Salmon (Juveniles)	0.33	11	0.50	14	3.08	105	0.67	14	0.26	5	0.98	15	0.27	3		
Pink Salmon (Adults)																
Pink Salmon (Juveniles)							0.11	14								
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)					0.01	1	0.14	11	0.15	5						
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers																
Fried Egg Jellyfish	11.08		0.30		7.02						0.90		0.97		3.41	
Lions Mane	1.70	2			1.25		0.25				9.96	7	2.88	3		
Moon Jellyfish	3.26		0.32		1.49		0.40	3			8.03	22	0.99	3		
North Pacific Spiny Dogfish			156.43	93	1.97	1					4.08	3	7.93	9	8.02	7
Northern Anchovy					56.26	4,232										
Opalescent Inshore Squid	0.11	3			0.07	10					0.13	6		1		1
Pacific Herring					31.74	1,213						2				
Pacific Sea Nettle																
Poachers		1						1		3		1		1		
River Lamprey							0.01	1								
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder																
Walleye Pollock					0.62	1										
Water Jellyfish	0.19						0.60		0.79		2.73		0.27			
Wolf Eel																
TOTAL	18.76	122	157.67	112	121.55	5,612	40.34	2,047	4.20	154	30.79	74	13.98	21	13.97	11

Station Name	SOG74		SOG77		JS01		JS02		JS04		QCST01		QCST02		QCST04	
Common Name	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.62	1									6.48	6				
Chinook Salmon (Juveniles)			0.08	3	0.09	7	0.17	9	0.08	2			0.10	1		
Chum Salmon (Adults)																
Chum Salmon (Juveniles)			0.50	41	19.76	1,163	2.29	149	0.04	4	22.09	1,365	3.13	191		
Coho Salmon (Adults)											3.67	1				
Coho Salmon (Juveniles)	1.55	15	0.32	6	0.06	2	0.15	3	0.22	5	0.41	8	0.25	4		
Pink Salmon (Adults)																
Pink Salmon (Juveniles)			0.11	8	0.68	47	0.11	7			0.02	2	0.08	3		
Sockeye Salmon (Adults)																
Sockeye Salmon (Juveniles)					0.02	2	0.08	3			0.39	27	0.36	19		
Steelhead Trout																
Codfishes																
Cods/Hakes/Grenadiers																
Fried Egg Jellyfish	1.53	3														
Lions Mane	9.56	2											0.65	1		
Moon Jellyfish	0.69	2	0.43	5	4.66	19	0.45	3	1.51	8			0.34	3	0.13	2
North Pacific Spiny Dogfish																
Northern Anchovy																
Opalescent Inshore Squid																
Pacific Herring				1	0.24	12					0.06	4				
Pacific Sea Nettle											1.76					
Poachers				1												
River Lamprey																
Rockfishes																
Sailfin Sculpin																
Soft Sculpin																
Spotted Ratfish																
Starry Flounder									1.09	1						
Walleye Pollock																
Water Jellyfish	0.12		14.42		18.93		9.14		6.46		0.39		1.97		0.90	
Wolf Eel											0.10	1	0.15	1	0.08	1
TOTAL	14.07	23	15.86	65	44.44	1,252	12.39	174	9.40	20	35.37	1,414	7.03	223	1.11	3

Station Name	QCST03		QCST06		QCST05	
Common Name	Weight	Count	Weight	Count	Weight	Count
Chinook Salmon (Adults)	0.47	1	0.45	1	12.67	8
Chinook Salmon (Juveniles)						
Chum Salmon (Adults)						
Chum Salmon (Juveniles)	8.02	433			0.04	3
Coho Salmon (Adults)					6.50	6
Coho Salmon (Juveniles)	1.02	14			0.21	2
Pink Salmon (Adults)						
Pink Salmon (Juveniles)	0.01	1				
Sockeye Salmon (Adults)						
Sockeye Salmon (Juveniles)	0.20	13			0.03	1
Steelhead Trout						
Codfishes						
Cods/Hakes/Grenadiers						
Fried Egg Jellyfish						
Lions Mane	2.43	1				
Moon Jellyfish	0.79		0.03		0.08	1
North Pacific Spiny Dogfish						
Northern Anchovy						
Opalescent Inshore Squid						
Pacific Herring						
Pacific Sea Nettle						
Poachers						
River Lamprey						
Rockfishes						
Sailfin Sculpin						
Soft Sculpin		1				
Spotted Ratfish						
Starry Flounder						
Walleye Pollock						
Water Jellyfish	1.52		0.10		0.05	
Wolf Eel						
TOTAL	14.46	464	0.58	1	19.58	21