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THE JOHN N. COBB'S SHELLFISH EXPLORATIONS IN CERTAIN SOUTHEASTERN ALASKAN WATERS, SPRING 1951

By J. G. Ellson* and Robert Livingstone, Jr. **

TABLE OF CONTENTS

| PAGE | PAGE |
|---|--|
| INTRODUCTION 1 | FISHING RESULTS (CONT.): |
| GEAR 4 | SEYMOUR CANAL, PORT SNETTISHAM, AND KEKU STRAIT 14 |
| FISHING RESULTS: 7 | MISCELLANEOUS CATCHES 15 |
| ICY STRAIT AREA 7 | GENERAL OBSERVATIONS 15 |
| LYNN CANAL AREA | SUMMARY 15 |
| STEPHENS PASSAGE FROM SHELTER IS TO GRAVE PT 13 | |

INTRODUCTION

The third in a series of exploratory fishing trips to southeastern Alaska in search of new shrimp grounds was made by the <u>John N. Cobb</u> in March and April 1951. The <u>John N. Cobb</u> is the exploratory fishing vessel operated in the northeast Pacific Ocean and Alaskan waters by the Branch of Commercial Fisheries, U. S. Fish and Wildlife Service (Ellson 1950). On this trip, the vessel left Seattle on March 7 and returned to Seattle on April 23. Fishing was carried on from March 14 to April 18.



FIG. 1 - FLOATING ICE IN TAKU INLET, ALASKA, IS ONE OF THE HAZARDS TO FISHING ENCOUNTERED IN THIS REGION.

'NORTH PACIFIC FISHERIES EXPLORATION AND GEAR RESEARCH,
EXPLORATORY FISHING AND GEAR DEVELOPMENT SECTION,
BRANCH OF COMMERCIAL FISHERIES, U.S. FISH AND WILDLIFE SERVICE,
SEATTLE, WASHINGTON.

^{**}FISHERY METHODS AND EQUIPMENT SPECIALIST,

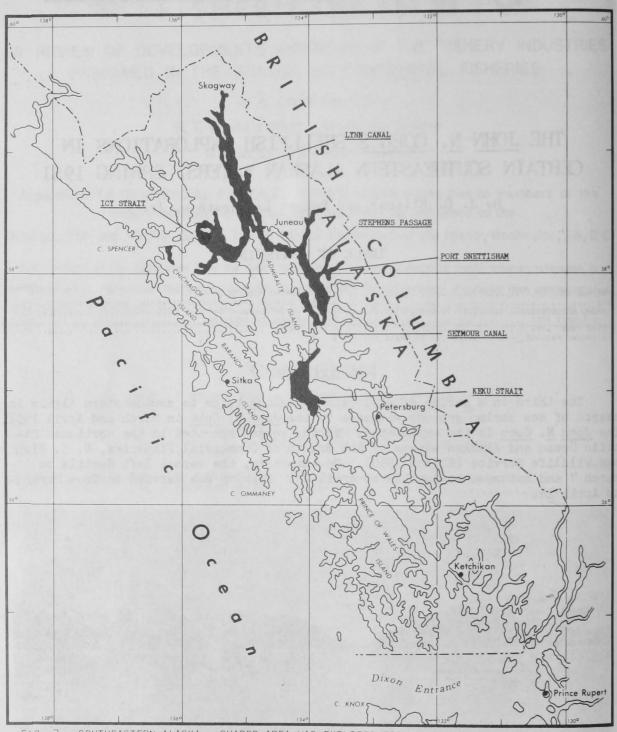
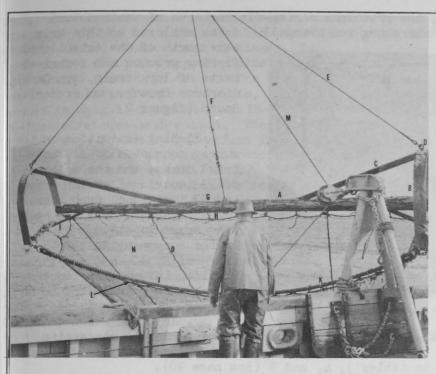


FIG. 2 - SOUTHEASTERN ALASKA. SHADED AREA WAS EXPLORED FOR SHELLFISH IN MARCH AND APRIL 1951.



A. Beam trawl being lifted aboard.

- A. BEAM: 20 feet long, approximately 8 inches in diameter at center and leveled off at each end to allow attachment of "D" frames or runners.
- B. "D" FRAME: bar iron, 5/8-inch thick and 6-inches wide.
- C. OAK CROSS BRACE: 3 inches by 3 inches by 8 feet.
- D. EYE BOLT: 5/8-inch diameter.
- E. LEG OF BRIDLE: 5/8-inch diameter, 11½ feet from eye to eye.
- F. LEG OF BRIDLE: 5/8-inch diameter, 8 feet from eye to eye, short adjustable strap 12 feet long from beam to shackle.
- G. STRAP: 15-thread manila, every fifth hanging.
- H. TOP HANGING LINE: 21-thread manila, number 600 becket twine used to hang the net to H and L, top hanging line attached to beam every fifth hanging.
- IRON-BAR BRACE:
 inch by 3 inches, 3-feet long.
- J. SWEEP ROPE: 5-inch circumference manila, 20-feet long from eye to eye, dry measure.
- K. GALVANIZED RINGS: 3 inches in diameter, one at each end, 4 inches in diameter to allow clearance of splice in sweep rope.
- L. BOTTOM HANGING LINE: a continuation of H, bottom hanging line attached to ringe on sweep rope, 9-thread manila straps every third hanging.
- M. TOWING CABLE: shackled to heavy 4-inch ring, E and F spliced to a heavy 4-inch ring.
- N. NET: 36-thread cotton netting, 1½ inches stretched mesh, 236 meshes across at throat, 60 meshes at sides, and 150 meshes deep, hung in 42%; that is, 6 inches stretched measure of netting on 3½ inches of hanging line.
- O. RIB LINE: 24-thread manils, runs lengthwise around net from top hanging line to bottom hanging line, secured to net every second mesh. Extension of one end forms strap from top hanging line to beam.

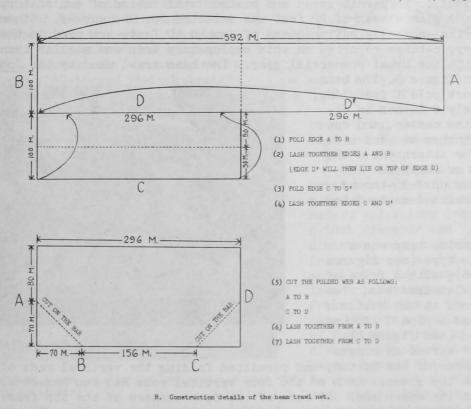


FIG. 3 - DETAILS OF BEAM TRAWL USED BY THE JOHN N. COBB.

At the present time, the principal shrimp-fishing area of southeastern Alaska is centered near Petersburg and Wrangell. Areas explored on this tri

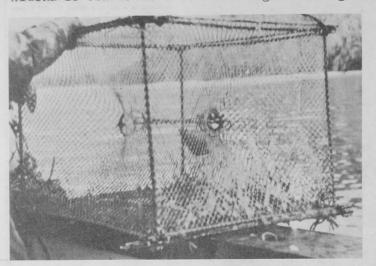


FIG. 4 - COLLAPSIBLE SHRIMP TRAP

Areas explored on this trip were north of the established fishing grounds and comprised parts of Icy Strait, Lynn Canal, Stephens Passage, and Frederick Sound (figure 2).

Fishing activities on the survey consisted of 119 beamtrawl drags, and the setting of 93 individual shrimp traps and 23 individual crab pots. Each beam-trawl drag and each trap or pot location is detailed in the accompanying charts (figures 8, 10, 13, and 15). Specific information concerning each drag is listed in the fishing log (table 1, see pages 16, 17, 18), and weights and

measurements of shrimp caught are listed in table 2. Information concerning shrimp catches of traps, the sizes of trap-caught shrimp, and crab catches of pots is recorded respectively in tables 3, 4, and 5 (see page 20).

GEAR

The beam trawl, the shrimp traps, and the crab pots used in the investigation were similar in design to those described in previous reports (Carlson 1945, Schaefers 1951). To permit speed and maximum utilization of exploratory fishing time, a trawl with a beam of 20 feet was selected for the survey. Since trawls of larger size--normally having beams of around 40 feet--are used in the commercial fishery, catches reported on this exploratory trip are smaller than would be obtained with the usual commercial gear. The beam trawl used by the John N. Cobb

was a hemlock pole 20 feet long, approximately 8 inches in diameter at the center, and cut down to 6 inches at each end to allow for attachment of the "D" frames or runners. The net was made up of 36-thread liz-inch stretched-mesh cotton netting.

The shrimp trap was a collapsible type (see figures 4, 5, and 6), with a frame of 3/8-inch galvanizedrods. Two opposing rods at the bottomof the trap had a pipe "T" fitted at each end (see figure 4). These "T's" served as hinges



FIG. 5 - SETTING UP A COLLAPSIBLE SHRIMP TRAP.

at each corner of the bottom, and permitted folding the vertical rods of the frame to collapse the sides. Each of the four vertical rods had two hexagonal nuts threaded at its upper end. At each of the four corners of the top frame, a slotted triangular-shaped galvanized iron plate was welded horizontally. The vertical

rods, when fitted into the corner slots, could be locked in place by tightening the upper of the two nuts. The lid was secured with cold shuts to one side of

the top frame. These acted as hinges. To lock thelid shut, the opposing side was tied to the frame with twine. The trap was 34 inches in length and width, and 29 inches in height. The netting was 18-thread Lt-inch stretched-mesh cotton. The four tunnels were formed by galvanized iron rings, 3 inches in diameter, located in the center of each vertical side. The indentations of the tunnels were secured by cross-tying the opposing rings with seine twine. Bait (frozen herring, frozen squid, and pieces of fresh scrap fish) was placed in a small sack made of shrimptrap netting and fastened to the tunnel crossties. As a rule, all three baits were used in the same trap as the object was not to compare effectiveness of baits but to attract shrimp (or crabs) to the traps in the greatest possible numbers. The frozen bait was thawed prior to use.

Two types of lightly-constructed crab pots were used--(1) a non-collapsible, rectangular type and (2) a collapsible, circular type. The first type (see figure 7) was 41 inches long, 29 inches wide, and 20 inches high. Its frame was round galvanized steel of 3/8-inch diameter. Its covering, except for the ends, consisted of 2-inch by 4-inch galvanized 15-gauge wire netting. Two tunnels, located one at each end, were of 60-thread $3\frac{1}{2}$ -inch stretched-mesh cotton netting. The tunnel entrances were formed by $\frac{1}{4}$ -inch galvanized



FIG. 7 - SETTING A NON-COLLAPSIBLE, RECTANGULAR CRAB POT FROM THE MOTOR LAUNCH.

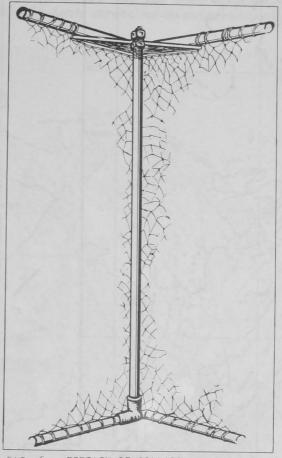


FIG. 6 - PORTION OF COLLAPSIBLE SHRIMP TRAP SHOWING PIPE T ON BOTTOM FRAME, AND VER-TICAL ROD INSERTED IN SLOT AND LOCKED IN PLACE BY HEXAGONAL NUTS.

round iron, and were ll inches wide and 5 inches high.

The collapsible pct, a patented type (see figure 9), had a top frame and a bottom frame made of galvanized iron rods of 1-inch diameter and 3/8-inch diameter, respectively. These frames were hoop-like in appearance. The top frame was 26 inches in diameter, the bottom frame 34 inches. The pot was assembled for fishing by means of four brass rods of 3/16-inch diameter attached at equal distances around the bottom frame. An eye was bent at the end of each rod to join it to the bottom

frame. A hook in the form of a reversed "S" was bent at the other end of each

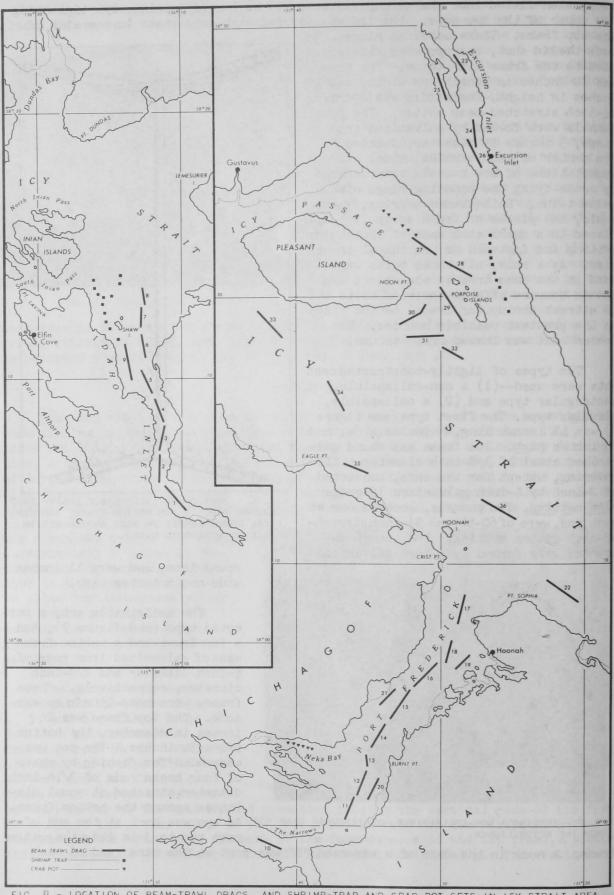


FIG. 8 - LOCATION OF BEAM-TRAWL DRAGS, AND SHRIMP-TRAP AND CRAB-POT SETS IN ICY STRAIT AREA.

rod to permit attachment to the upper frame. The pot had two tunnels, located opposite each other. Their entrances were $7\frac{1}{2}$ -inches wide and 4-inches high, and were made of 7-gauge galvanized wire. The bottom of the pot was covered with 48-thread, and the top and sides with 30-thread, $3\frac{1}{2}$ -inch stretched-meshtarred cotton netting.

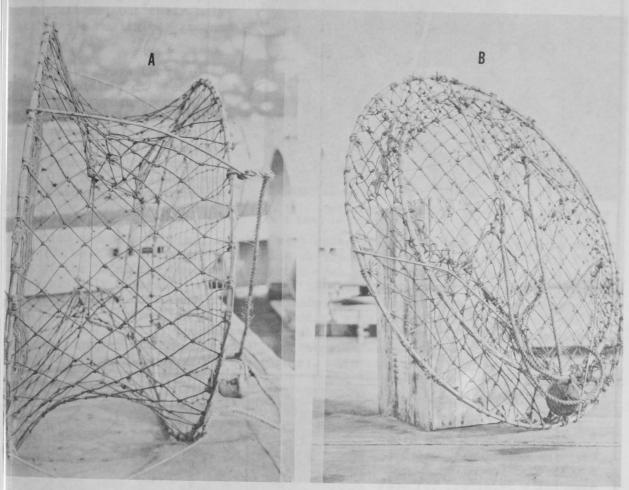


FIG. 9 - A CIRCULAR, COLLAPSIBLE CRAB POT.

A - ASSEMBLED FOR FISHING.

B - COLLAPSED.

FISHING RESULTS

In interpreting the fishing results on this trip, the variations to be expected from season to season and from year to year should be kept in mind. The following discusses catches in the various areas explored.

ICY STRAIT AREA: Thirty-six drags were made in the Icy Strait area (figure 8), Nos. 1 to 36. Fishing started at the head of Idaho Inlet where nine drags (Nos.1 to 9) were made. Drag No. 1, at the head of the inlet, and drag No. 8, near the entrance, resulted in broken beams. The other drags revealed ideal trawling bottom of grey mud, and consistent soundings. The best drags (Nos. 2, 3, 4, 5, and 9) yielded an average catch of 1,072 pounds of shrimp per hour,— consisting of 85 percent pink (Pandalus borealis), 9 percent side-stripe (Pandalopsis dispar), and percent coon-stripe (Pandalus hypsinotus). These drags were located in a slight depression, which was from 28 to 40 fathoms deep. The pink shrimp from drag No. 3 Nome variation occurred in the duration of individual drags. Catch results have been converted to a rate-per-hour, to permit ready comparison of catch information.

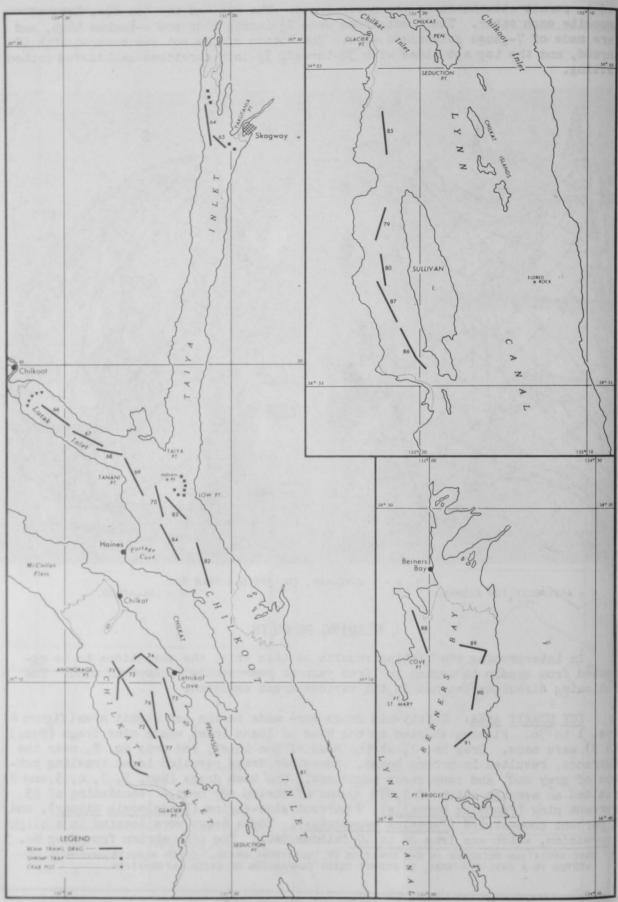


FIG. 10 - LOCATION OF BEAM-TRAWL DRAGS, AND SHRIMP-TRAP AND CRAB-POT SETS IN LYNN CANAL AREA.

ran 128 and from drag No. 4 ran 86 whole (heads on) shrimp per pound. The coonstripe from drag No. 3 ran 29 per pound. The side-stripe from drag No. 4 ran 23

per pound. Twelve shrimp traps were set in the approach to the inlet at depths from 32 to 80 fathoms, but their only catch was a negligible amount of pink shrimp.

Twelve drags (Nos. 10 to 21) were made in Port Frederick from the entrance to near the end of the inlet. Most of the drags were made in mid-channel at depths of approximately 60 to 80 fathoms. Three drags (Nos. 19, 20, and 21) were made on the side banks at approximately the 50-fathom contour. Except for drags Nos. 17 and



FIG. 11 - SORTING SHRIMP ABOARD THE JOHN N. COBB CAUGHT IN A DRAG IN IDAHO INLET.

18, which caught no shrimp, catches were quite uniform in the area, ranging mostly from 100 to 200 pounds per hour. Pink shrimp dominated the catches, being 81 percent of the total for the Port Frederick area. Side-stripe shrimp constituted 19 percent. Only insignificant amounts of coon-stripe and spot shrimp (Pandalus platyceros) were captured. Pink shrimp from The Narrows were of small size; those from the rest of the area were of commercial size, running 66 to 78 whole shrimp to the pound. Most of the bottom was satisfactory for dragging, although a considerable number of miscellaneous invertebrates was encountered, mainly "coral," "clay pipe," barnacles, and brittle stars. Six crab pots, fished in Neka Bay,

caught one small male Dungeness crab (Cancer magister).

Four drags (Nos. 23 to 26) were made in Excursion Inlet proper. The bottom was irregular, and ice encountered at the head of the inlet eliminated that area for shallower dragging. The best drag (No. 25) caught 150 pounds of shrimp per hour. The average for the four drags was 96 pounds of shrimp per hour, consisting of 86 percent pink, 7 percent side-stripe and 7 percent coon-stripe. The pink shrimp were too small in size to warrant commercial interest.

Seven drags (Nos. 27 to 33) in Icy Passage and waters adjoining Porpoise Islands and Pleasant Island at depths from 20 to 100 fathoms were generally

FIG. 12 - A SHRIMP CATCH ON THE DECK OF THE JOHN N. COBB.

No. 29 made on mud bottom at depths from 40 to 58 fathoms on the west side of Porpoise Islands, where shrimp were caught at the rate of 300 pounds per hour. The

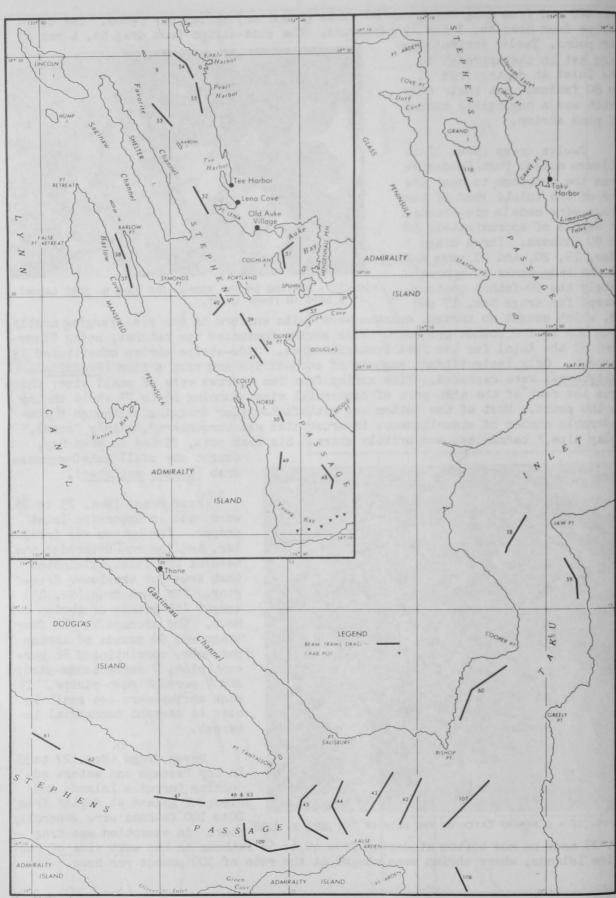


FIG. 13 - LOCATION OF BEAM-TRAWL DRAGS AND CRAB-POT SETS IN STEPHENS PASSAGE AREA.

catch consisted of 93 percent large pink shrimp and 7 percent large side-stripe shrimp. Pink shrimp caught north of Porpoise Islands were small in size. In the other drags to the south and west of Porpoise Islands and south of Pleasant Island, side-stripe shrimp dominated the catch but were scattered. The bottom was generally suitable for dragging. Shrimp traps set from Porpoise Islands to Excursion Inlet caught few shrimp. Crab pots set in Icy Passage caught 17 small king crabs (Paralithodes platypus) but only a few Dungeness crabs.

Three widely-scattered drags (Nos. 22, 35, and 36) were made near or beyond the 50-fathom contour near the Chichagof Island shore from Point Sophia to Eagle Point, and one drag (No. 34) was made in mid-channel between Eagle Point and Pleasant Island. Catches were small, and consisted predominantly of side-stripe shrimp, except off Point Sophia where drag No. 22 at a depth of 50 to 62 fathoms on grey mud bottom caught shrimp at the rate of 190 pounds per hour. This catch consisted of 95 percent fair-size pink and 5 percent large side-stripe.

LYNN CANAL AREA: Twenty-eight drags were made in the Lynn Canal area (figure 10), Nos. 64 to 91, from the uppermost reaches of the canal to as far south

as Berners Bay. Two drags at the head of Taiya Inlet caught small-size pink shrimp and commercial-size side-stripe shrimp, but the limited amount of dragging ground makes the area unsuitable for commercial fishing. Shrimp traps set here caught small amounts of coonstripe shrimp.

Four drags (Nos. 66 to 69) were made in Lutak Inlet at depths from 38 to 50 fathoms. The mud bottom was suitable for dragging, and catches of shrimp up to 400 pounds per hour were made, consisting of 96 percent pink and 4 percent coon-stripe. The pink shrimp



FIG. 14 - MOSTLY "TRASH" AND A FEW SHRIMP WERE CAUGHT IN THIS DRAG.

were mostly small except for a mixture of larger sizes found near the entrance. The head of the inlet was not fished because it was frozen over. Five crab pots set near the head caught mostly tanner crabs (Chionoecetes bairdi).

Four drags (Nos. 70, 82, 83, and 84) on a mud bottom in Chilkoot Inlet from off Indian Rock to opposite Portage Cove averaged 182 pounds of shrimp per hour. The catches consisted of 80 percent pink and 20 percent side-stripe. The best drag (No. 82) caught 310 pounds of shrimp per hour and was clean of extraneous material. These drags, at depths from 62 to 72 fathoms, caught commercial-size pink shrimp and large side-stripe. The pink ran 80 whole shrimp to the pound. Drag No. 81, made in 108 to 120 fathoms at the south end of Chilkoot Inlet, produced 40 pounds of side-stripe shrimp per hour. Seven shrimp traps set near Indian Rock at depths from 26 to 65 fathoms were unproductive except for the deepest trap, which caught 28 spot shrimp and which alone showed no evidence of having been set in mud.

Eight drags (Nos. 71 to 78) were made in Chilkat Inlet at depths from 42 to 72 fathoms. Disregarding drag No. 71, which produced a negligible catch, the remaining seven drags caught shrimp at the rate of 175 pounds per hour. The catches

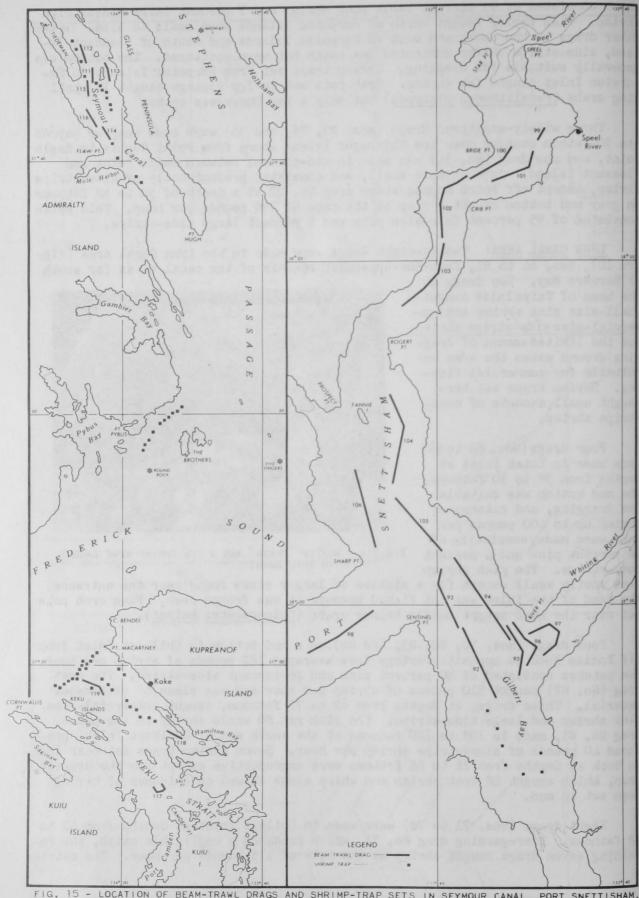


FIG. 15 - LOCATION OF BEAM-TRAWL DRAGS AND SHRIMP-TRAP SETS IN SEYMOUR CANAL, PORT SNETTISHAM, AND KEKU STRAIT AREAS.

consisted of 85 percent pink, 12 percent side-stripe, and 3 percent coon-stripe, mostly of commercial sizes, the pink shrimp counting 87 whole shrimp to the pound based on a sample from drag No. 72. Seaweed and bottom trash were quite common in some of the drags. The best and cleanest drag was No. 78, which caught 290 pounds of shrimp per hour, practically all pink.

One drag (No. 85) was made north of Sullivan Island and four drags (Nos. 79, 80, 86, and 87) were made west of Sullivan Island at depths from 52 to 97 fathoms. The catches averaged 84 pounds of shrimp per hour and consisted of 89 percent pink, 8 percent side-stripe, and 3 percent coon-stripe, mostly of commercial sizes. The best drags (Nos. 79, 80, and 86) produced at the rate of 110 pounds per hour.

Three drags in Berners Bay (Nos. 89, 90, and 91) at depths from 60 to 96 fathoms averaged 129 pounds of shrimp per hour. The catch consisted of 86 percent pink (78 whole shrimp per pound) and 14 percent side-stripe (34 whole shrimp per pound, according to a sample from drag No. 91). Another drag (No. 88) at a depth from 48 to 54 fathoms near Cove Point, caught 180 pounds per hour. The catch consisted of 89 percent pink and 11 percent coon-stripe. The pink ran 92 whole shrimp to the pound.

STEPHENS PASSAGE, FROM SHELTER ISLAND TO GRAVE POINT: Thirty-one drags (Nos. 37 to 63 and 107 to 110) were made in the Stephens Passage area from Shelter Is-

land to Grave Point (figure 13). The area from Shelter Island to Young Bay produced mostly poor shrimp catches. Fifteen drags (Nos. 37 to 41 and 48 to 57) at depths from 30 to 94 fathoms were made in the area and resulted in an average catch of 35 pounds of shrimp per hour, of which 62 percent were pink, 34 percent side-stripe, and 4 percent coon-stripe. Of these drags, seven (Nos. 48 to 52, 56 and 57) caught either very small amounts or no shrimp at all. The best drag (No. 53) in 75 to 78 fathoms, in Favorite Channel north of Aaron Isper hour, mostly side-stripe.



land, caught 130 pounds of shrimp FIG. 16 - BROKEN BEAM BEING HAULED ABOARD THE JOHN N.

Der hour, mostly side-stripe.

COBB. THIS HAPPENS FREQUENTLY IN EXPLORATORY FISHING.

Drag No. 37 in 50 to 76 fathoms in Barlow Cove took 110 pounds of shrimp per hour. Eighty-two percent of the catch was commercial-size pink, the remainder of the catch was coon-stripe. Drag No. 39 in 56 to 62 fathoms south of Portland Island caught 120 pounds of shrimp per hour. Two-thirds of the catch was pink of both small and commercial sizes, and the remainder of the catch was side-stripe. Drags Nos. 50 and 56 resulted in broken beams.

Sixteen drags were made near Juneau. Eleven of these (Nos. 42 to 47, 61 to 63, 107, and 109) were made in Stephens Passage from 5 miles west of Point Tantallon to 5 miles east of Point Tantallon; two (Nos. 108 and 110) from Point Arden to south of Grand Island; and three (Nos. 58, 59, and 60) in Taku Inlet from Bishop Point to Jaw Point. The eleven drags in the Point Tantallon area were made at depths from 41 to 116 fathoms and resulted in an average catch per drag of 311 pounds of shrimp per hour, consisting of 87 percent pink, more than 12 percent sidestripe, and less than 1 percent coon-stripe. The side-stripe were captured east

of Point Tantallon in depths between 75 and 116 fathoms. The greatest concentrations of pink shrimp were found near the point between 43 and 50 fathoms. The best drags were the three (Nos. 46, 47, and 63) made close to Point Tantallon, which caught, respectively, 590, 780, and 1,000 pounds per hour. The catches were almost entirely pink shrimp, which weighed 63 whole shrimp to the pound based on a sample from drag No. 46. Drag No. 63, which repeated drag No. 46 after an interval of four days, produced the best catch made in the area (a local trawler from Juneau was also fishing these grounds at the time). The two drags from Point Arden to south of Grand Island resulted in only small catches. The three drags in Taku Inlet were made south of Jaw Point, as ice precluded fishing further towards the head. These drags, at depths from 52 to 94 fathoms, produced a catch of 95 pounds of shrimp per hour, consisting of 79 percent pink and 21 percent sidestripe. The pink ran 132 to the pound in a sample from drag No. 58. Considerable sounding was required to locate drags because of the rough bottom of the region.

SEYMOUR CANAL, PORT SNETTISHAM, AND KEKU STRAIT: Six drags (Nos. 111 to 116) were made in Seymour Canal (figure 15); fifteen (Nos. 92 to 106) were made in Port Snettisham; and three (Nos. 117 to 119) were made in Keku Strait. In addition, shrimp traps were fished in the following three areas: Seymour Canal, near Point Pybus, and near Kake. In Seymour Canal, soundings as far as Tiedeman Island indicated that stretches of suitable trawling bottom were interspersed with hard, uneven bottom. A broken beam resulted from drag No. 112 and alarge tear in the net from drag No. 113. Six drags in the area produced an average catch of 175 pounds of shrimp per hour, consisting of 87 percent pink, 8 percent side-stripe, 4 percent coon-stripe, and 1 percent spot (Pandalus danae were also caught at the rate of 40 pounds per hour and have been disregarded in these computations because of their small size). The best catches were made by side-slope drags, Nos. 114 and 116, at depths of 50 to 70 fathoms north of Flaw Point, which produced about 400 pounds of shrimp per hour. The catch was mostly pink, counting 90 wholeshrim to the pound. Fifteen shrimp traps were set over a range of 13 miles at depths from 35 to 80 fathoms. The traps in the deeper water caught the larger shrimp. The best catch was made by a trap set for 19 hours in 76 fathoms near Dorn Island, which produced 83 spot shrimp weighing 9 pounds. Soundings taken north to south between Point Pybus and The Brothers islands revealed uneven bottom. Shrimp traps set near Point Pybus at depths from 16 to 88 fathoms were fished for 25 hours. Only the four traps at depths of 80 fathoms or more caught shrimp, a total of 57 spot, weighing 8 pounds.

Fifteen drags at depths from 40 to 124 fathoms made in Port Snettisham resulted in an average catch of 153 pounds of shrimp per hour, consisting of 48 percent pink and 52 percent side-stripe. The north arm of Port Snettisham was dragged quite thoroughly at depths from 68 to 124 fathoms from Sharp Point to the Speel River. The results were mostly poor, and several drags fouled with mud. Drag No. 100, off Bride Point caught side-stripe shrimp at the rate of 350 pounds per hour, but these shrimp were dominated by small sizes. The south arm of Port Snettisham, Gilbert Bay, was dragged from Sentinel Point to the Whiting River. Drags, Nos. 95 and 96, at depths of 56 to 76 fathoms, off the mouth of the Whiting River, were the best made in Port Snettisham. These drags resulted in catches up to 450 pounds of shrimp per hour, consisting of large pink which ran 64 to the pound and of side-stripe shrimp of mixed sizes.

In Keku Strait near the entrance, traps were set, and a drag (No. 119) was made, but these caught practically no shrimp. "Sand fleas" appeared to have stripped the bait in the traps. Only small pink shrimp were found in Hamilton Bay. To afford a comparison with other drags made during the exploratory trip, drag No. 117 was made southwest of Salt Point in an established commercial shrimp fishing location. Made in a circle, this drag caught 764 pounds of shrimp per hour, a mixture of pink, side-stripe, coon-stripe, and spot shrimp, mostly large sizes.

MISCELLANEOUS CATCHES: Marine life common in most of the areas fished included small flathead "sole" (Hippoglossoides elassodon), small whiting (Theragra chalcogramma), long-snouted blenny (Lumpenella longirostris), short-finned eel pout (Lycodes brevipes), spiny-headed sculpin (Dasycottus setiger), and the sturgeon-like sea-poacher (Agonus acipenserinus). Starry flounder (Platichthys stellatus) were found in most of the areas; two drags in Excursion Inlet yielded 234. Yellowfin "sole" (Limanda aspera) weighing up to 9 pounds were taken in Port Frederick. Tanner crab (Chionoscetes bairdi) were caught in most areas.

GENERAL OBSERVATIONS

During March and April, strong winds are encountered which hamper shrimping operations. Ice is encountered at the heads of bays, which also restricts fishing. Lynn Canal is especially windy.

Some of the regions explored may have more promise than is indicated in this report. Where frequent catches are made, even if not especially large, there is a possibility that a concentration of shrimp may exist somewhere in the area, either slightly outside of the grounds dragged, or at a different season.

SUMMARY

Best catches of shrimp were made as follows: over 1,000 pounds per hour in Idaho Inlet, 1,000 pounds per hour near Point Tantallon, 450 pounds per hour off the Whiting River, 400 pounds per hour off Flaw Point, and 300 pounds per hour in Chilkoot Inlet. A drag made in Keku Strait on an established commercial ground, for comparative purposes, caught 764 pounds of shrimp per hour.

In order to permit maximum utilization of time, the gear selected for the survey was a 20-foot beam trawl. The catches reported in this paper are therefore smaller than would have been made with commercial-size trawls, which normally have beams of around 40 feet. The fishing results reported here are for March and April 1951. The results may vary in other seasons and years.

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| | | | cam-irawi Drags I | by the John N. Cob | | | TINE TAST | 1 . | 7 | 1 1 |
|---|-----------------|-----------------|-------------------|--------------------|--------------|-----------------------|----------------|-------------------------|-------------------------|----------------------|
| Drag Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | March 17 |
| Date | March 14 | March 15 | March 15 | March 15 | March 15 | March 15 | March 15 | March 15 | March 17 | E70 EO E |
| atitude N. | 580 051 | 58 06.1' | 58° 07.3' | 580 08.41 | 580 09.41 | 580 10.81 | 58° 11.9' | 58° 12.8' 136° 12.5' | 58° 11.3' 136° 13.9' | 57° 59.5 135° 42. |
| ongitude W. | 136° 09.7' | 1360 11.61 | 1360 11.61 | 136° 11.2' | 1360 121 | 1360 12,51 | 1360 12.81 | 136 12.5 | 130 13.9 | |
| Course, Magnetio | MHM | MNM | HNW | MMA | NWXW | NWxN | NWxN | MXM | SE | E |
| type of pottom | gy. M. | gy. M. | gy. M 28-32 | gy. M. | gy.M. | gy. M. | gy. M. | | gy. M. | gy. M. |
| Depth Range in Fathoms | 20-29 | 28-30 | 28-32 | 32-36 | 36-40 | 35-41 | 30-20 | 26-24 | 31-36 | 46-52 |
| Tide | Flood | Fbb | Epp | Ebb | Slack | Early flood | Flood | Flood | Early ebb | Early fl |
| Time on Bottom in Minutes | 30 | 30 | 30 | 37 | 30 | 34 | 30 | 19 | 30 | 30 |
| Shrimp Catch in Pounds: | | | | | | | | | | |
| Pink | 142 | 350 | 450 | 1425 | 700 | 280 | 50 | **** | 400 | 775 |
| Side-stripe | | | 20 | 21 | 200 | 20 | 10 | | 5 | 1. |
| Coon-stripe | 13 | 100 | 25 | 25 | 25 | | | | 50 | 1 0 |
| Spot | | | 1 | 1 | 2 | | | - | - | |
| Total Catch on Hourly Basis | 90 | 900 | 992 | 765 | 1854 | 529 | 120 | | 850 | 150 |
| Trawling Bottom | Snag | Clear | Clear | Clear | Clear | Clear | Clear | Snag | - Clear | Clear |
| Remarks | Broken Beam | **** | | Beam turned over | | | | Broken Beam | | |
| Drag Number | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Date | March 17 | March 18 | March 18 | March 18 | March 18 | March 18 | March 18 | March 18 | March 19 | March 19 |
| Latitude N. | 58° 031 | 58° 01.1' | 580 02.31 | 58° 031 | 58° OL, 1' | 58° 05.3' | 58° 08.81 | 58° 06.21 | 58° 06.6" | 58° 01' |
| Longitude W. | 135° 36.61 | 135° 35.8' | 135° 35° | 135° 34.7' | 135° 33.6' | 135° 31.9' | 135° 28.3 | 135° 29.6' | 1350 27.91 | 135° 35. |
| Course, Magnetio** | NxW | NxW | NxW | N 200 240 1 | W JJ. | NxE | SEE | HNW 4 | SW | NxW |
| Type of Bottom | | | EV. M. | ** | mr. W | | | | Soft-Hard | |
| epth Range in Fathoms | gy. M. 56-70 | gy. M. 60-64 | | gy. M. | gy. M. | gy. M. 82=78 | 62-78 | gy. M. 76-80 | 50-72 | Ey. M. |
| Tide | Flood | Ebb | 72-80 | 72-78 | 76-86 Ebb | 62=/8 Ebb | 62-76 Ebb | Early flood | Flood | Flood |
| Time on Bottom in Minutes | 30 | | Ebb | Early ebb | | | | 30 Barry 1100d | | |
| Shrimp Catch in Pounds: | 20 | 30 | 12 | 30 | 30 | 30 | 30 | 20 | 25 | 30 |
| Pink | 40 | 65 | | 1- | - | - | | | 40 | 100 |
| | | | 55 | 45 | 75 | 25 | | | | 100 |
| Side-stripe | 10 | 10 | | 30 | 50 | 35 | | | 10 | |
| Coon-stripe | | | | | | | | | | |
| Spot | | | | | | | | | 5 | |
| Total Catch on Hourly Basis | 100 | 150 | 375 | 150 | 250 | 120 | | | 132 | 200 |
| Frawling Bottom Remarks | Clear | Olear | Snag | Clear | Clear | Clear | Clear | Clear | Snag Torn net | Clear |
| Drag Number | 21 | - | | | ac ac | 2 | 0.07 | 00 | 20 | 30 |
| Date | March 19 | 22 | 23 | 21, | 25 | 26 | 27 | 28 | 29 | March 2 |
| atitude N. | march 19 | March 19 | March 20 | March 20 | March 20 | March 20 | March 20 | March 20 | March 20 | 58° 19. |
| | 580 04.61 | 58 09.41 | 58° 28.21 | 58° 25.5' | 580 28.31 | 58 24.81 | 580 22.21 | 58° 21.3' 135° 29.8' | 58 20.4 | 135° 31 |
| ongitude W. | 135° 34.31 | 135° 22.7' | 1350 28.21 | 1350 27.51 | 1350 30.21 | 135° 27.2' | 135° 32° | 135 29.8 | 135° 30.1' | 135 31 |
| ourse, Magnetio** | NxE | ExS | HMXM | NWxN | SEES | WxN | E | B | SEXE | |
| ype of Bottom | M. | gy. M. | | gy. M. 68-72 | M. | М. | S. and M. | S. and M. | М. | M. and |
| epth Range in Fathoms | 68-56 | 50-62 | 54-66 | 68-72 | 40-50 | 54-68 | 20-32 | 36-64 | 40-58 | 50-60 |
| ide | Ebb | Ebb | Flood | Flood | Late flood | Epp | Ebb | Ebb | Ebb | Flood |
| ime on Bottom in Minutes | 35 | 30 | 30 | 30 | 30 | 30 | 30 | . 30 | 30 | 30 |
| hrimp Catch in Pounds: | | | | | | | | | | |
| Pink | 170 | 90 | 16 | 40 | 65 | 45 | | 70 | 140 | 20 |
| Side-stripe | | 2 | 3 | 5 | | 5 | | 1: | 10 | 30 |
| Coon-stripe | | | 3 | | 10 | | | m the second second | | |
| Spot | | - | | * | | | | | | |
| Total Catch on Hourly Basis | 291 | 190 | 144 | 90 | 150 | 100 | | 140 | 300 | 100 |
| rawling Bottom | Clear | Clear | Olear | Clear | Clear | Clear | Clear | Clear | Clear | Clear |
| emarks | | | | | | | | | | |
| rag Number | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 Waroh 23 | 39 March 23 | 40 |
| ite | March 21 | March 21 | 33 March 21 | 34 March 22 | March 22 | March 22 | 37 March 23 | March 23 | March 23 | March 2 |
| titude N. | 580 18.61 | 58° 17.7° | 58° 18.5' | 580 15.81 | 580 13.41 | March 22 58° 12.5' | 580 20.31 | #00 03 Ze | 580 19.31 | 58° 20, 134° 4 |
| ngitude W. | 1350 29.81 | 1350 28.41 | 135° 41' | 135° 36.7' | 1350 35.1' | 1350 27.21 | 134° 53' | 1340 53.51 | 1340 44.61 | 1340 4 |
| urse, Magnetic** | WSW | W | WNW | NWxW | W | E | MA | NW | ESE | SEXS |
| rpe of Bottom | | - | S. and M. | M. and Rk. | M. and Rk. | M. and Rk. | M. and Rk. | М. | М. | M. and |
| pth Range in Fathoms | 78-86 | 82-100 | 70-60 | 64-74 | 54-68 | 40-50 | 50-76 | 80-94 | 56-62 | 48-54 |
| de | Flood | Epp | Epp | Early flood | Flood | Flood | Slack | Early flood | Flood | Flood |
| me on Bottom in Minutes | 30 | 20 | | ZO TIOOG | | | | | | 30 |
| THE POST OF THE PARTITIONS | 70 | 50 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| rimp Catch in Pounds: | | | | | | 8 | Lie | 2 | 1. | 8 |
| rimp Catch in Pounds: | | | | | | | | | | |
| rimp Catch in Pounds: Pink | 1.0 | | 10 | | 1.0 | | 45 | | 40 | |
| rimp Catch in Pounds: Pink Side_stripe | 40 | 20 | 10 | 15 | 15 | 2 | | 12 | 20 | 2 |
| rimp Catch in Pounds: Pink Side_stripe Coon-stripe | řio * | | | 15 | | 2 | 10 | 12 | 20 | |
| rimp Catch in Pounds: Pink Side_stripe Coon-stripe Spot | 140 80 | 20 | | 15 | | 2 | 10 | 12 | 20 | 2 |
| rimp Catch in Pounds: Pink Side_stripe Coon-stripe | | | | 15 | | 2 | | 12 | 20 | |

| Drag Number | 41 | 142 | 43 | 141 | 45 | 46 | 47 | 48 | 49 | 50 |
|--|--|--|---|--|--|--|--|---|--|---|
| Date | March 23 | March 26 | March 26 | March 26 | March 26 | March 26 | March 26 | March 27 | March 27 | March 27 |
| Latitude N. | 580 17-1' | 58 10.5 | 58° 10.6' 134° 12' | 580 10.21 | 58° 10.1' | 58° 11' 134° 17.7' | 58° 10.9' 134° 18.2' | 58° 12.9' 134° 38.3' | 58° 12.7' 134° 41.6' | 58° 14.7 134° 41. |
| ongitude W. | 1340 42.91 | 1340 10.71 | 134° 12' | 1340 12.71 | 1340 13.51 | 134 17.7' | 134° 18.2' | 134 38.31 | 1340 41.61 | 134 41 |
| ourse, Magnetic | WxN | NxW | N | NWXW | W | NEXE | WSW | ENE | HE | NNW |
| vpe of Bottom | M. and S. | М. | M. | M. | М. | M. | M. | M. and S. | M. and S. | rky. |
| epth Range in Fathoms | 42-54 | 108-112 | 80-86 | 75-80 | 60-65 | 43-50 | 43-50 | 35 | 36-42 | 46-44 |
| ide | Flood | Flood | Flood | Flood | Slack | Early ebb | Ebb | Ebb | Flood | Flood |
| ime on Bottom in Minutes | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 15 |
| hrimp Catch in Pounds: | 120 | 20 | 70 | 30 | 70 | 90 | ~ | ,~ | 70 | -2 |
| Pink | 12 | | 5 | 10 | 1 70 | 000 | 385 | | | |
| | | | | 10 | 70 | 290 | 200 | | | |
| Side-stripe | 13 | 142 | 70 | 80 | The Landson | 2 | | | | |
| Coon-stripe | | | | | | | 5 | | | |
| Spot | | | | | | | | | | |
| Total Catch on Hourly Basis | 30 | 84 | 150 | 180 | 140 | 590 | 780 | | | - |
| Total octon on noully basis | | 04 | 100 | 100 | 140 | | | | 11 120 | |
| rawling Bottom emarks | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Sna g Broken |
| | | + | + | | | | | | | |
| rag Number | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 Marsh 22 | 60 |
| ate | March 28 | March 28 | March 28 | March 28 | March 28 | March 28 | March 29 | March 29 | March 29 | March 2 |
| atitude N. | 580 22.21 | 580 23.41 | 58° 27.1' | 58 30.1' | 58 28.91 | 58 17.61 | 58° 19.6' | 58° 16.9' | 58° 16,1' | 58° 13. |
| ongitude W. | 58° 22.2' 134° 40.5' | 1340 471 | 1340 49.81 | 58° 30.1' 134° 49.8' | 1340 47.91 | 58° 17.6' 134° 42.4' | 1340 38.31 | 134° 05.81 | 1340 04.31 | 134° 06 |
| ourse, Magnetic** | SSW | HWXW | WxW | SE | SE | NW | SW | 8 | SEXE | SSW |
| ype of Bottom | W. | an M | | | | M. and Rk. | м. | W. | M. | M. |
| | | gy. M. | gy. M. | gy. M. | | | | 61.66 | 52-54 | 88-94 |
| epth Range in Fathoms | 30-50 | 56-58 | 75-78 | 55-60 | 60-70 | 70-65 | 40-58 | 64-66 | | |
| ide | Ebb | Ebb | Ebb | Flood | Flood | Slaok | Ebb | Ebb | Flood | Flood |
| ime on Bottom in Minutes | 40 | 30 | 30 | 30 | 30 | 15 | 30 | 30 | 30 | 43 |
| hrimp Catch in Pounds: | | | AND DESCRIPTION OF THE PERSON NAMED IN | | | | | | | |
| Pink | | 1 | 15 | 111 | 25 | 2 | | 50 | 60 | 10 |
| Side-stripe | | | 50 | | | | | 10 | | 22 |
| | | | | | Tribal Barry | | | | The state of the s | - |
| Coon-stripe | | | | | | | | | | |
| Spot | | | | | | | | | | |
| Total Catch on Hourly Basis | | 2 | 130 | 22 | 50 | 8 | | 120 | 120 | LH1 |
| | | 1 02 | - | 1 | - | C | 1 02 | | 03 | 03 |
| rawling Bottom | Clear | Clear | Clear | Clear | Clear | Snag | Clear | Clear | Clear | Clear |
| emarks | | | | | | Broken Beam | | | | |
| | | - | - | | | | - | | | - |
| rag Number | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| ate | March 30 | March 30 | March 30 | April 1 | April 1 | April 1 | April 1 | April 1 | April 1 | April 1 |
| atitude N. | 580 12.51 | 58° 11.9' | 580 11' | 59 28.21 | 590 27.11 | 590 18.81 | 590 17.91 | 590 17.4 | 59° 17.1' | 59° 16, |
| ongitude W. | 1340 251 | 134° 23.3° | 1340 17.71 | 1350 21.61 | 135° 21.3' | 135° 31.51 | 135° 29.6' | 135° 281 | 1350 26.41 | 135 2 |
| ourse, Magnetio** | NEXE | ExN | ExN | SSE | ExS | SSE | E | ENE | R | SE |
| ype of Bottom | | W. | M | | - Marie | | M. | M. | и. | M. |
| | М. | | | 64-86 | | M. | | | | He // |
| epth Range in Fathoms | 41-43 | 43-44 | 43-50 | 64-86 | 86-82 | 38-40 | 38-43 | 44-50 | 44-50 | 64-66 |
| ide | Ebb | Ebb | Ebb | Flood | Flood | Ebb | Ebb | Ebb | Slack | Early ! |
| ime on Bottom in Minutes | 30 | 40 | 30 | 30 | 25 | 30 | 30 | 30 | 30 | 30 |
| hrimp Catch in Pounds: | | 1 40 | 100 | 100 | | 100 | 100 | | | - |
| Pink | 30 | 20 | F00 | | 1 40 | 160 | 23 | 195 | 135 | 45 |
| Side-stripe | | | 500 | | 30 | | | | | |
| | | | | 112 | 37 | | | **** | | 15 |
| Coon-stripe | | | *** | 12 | 13 | 10 | 2 | 5 | 5 | 11000 |
| Spot | | | | | | | | | | |
| Total Catch on Hourly Basis | 60 | 30 | 1000 | 5 | 191 | 340 | 50 | 400 | 280 | 120 |
| | 42 | | | Clear | | | | | | |
| rawling Bottom emarks | Clear | Clear | Clear | 01001 | Snag Hung up | Clear | Clear | Clear | Clear | Clear |
| | and the same of th | | | | + | | | - | | 80 |
| rag Number | 71 | 72 | 73 | 71, | 75 | 76 | 77 | 78 | 79 | 00 |
| | 71 | 72 April 3 | 73 April 1 | 74 April 1 | 75 April - | 76 | 77 April 1 | 78 April 1 | 79 April 1 | April I |
| ate | April 3 | April 3 | April 4 | 74 April 4 | 75 April 4 | April 4 | April 4 | April 4 | April 4 | April |
| nte atitude W. | April 3 59° 10-7° | April 3 59° 09.1' | April 4 59° 09.4° | 590 10.71 | 159° 08-91 | April 4 | April 4 59° 08.3 | April 1, 59° 07.8° | April 4 | April |
| nte atitude W. ongitude W. | April 3 59° 10.7' 135° 27.1' | April 3 59° 09.1' 135° 25.4' | April 4 59° 09.4° 135° 26.8° | 59° 10.7' 135° 25.9' | 59° 08.9' 135° 23.3 | 99° 09.7' 135° 24.8' | 59° 08.3 135° 24.4' | April 4 59° 07.8' 135° 26.2' | April 4 59° 00.6' 135° 22.1' | 58° 59. |
| nte atitude N. ourse, Magnetie** | April 3 59° 10-7° | April 3 59° 09.1' | April 4 59° 09.4° | 590 10.71 | 159° 08-91 | April 4 | April 4 59° 08.3 | April 1, 59° 07.8° | April 4 59° 00.6' 135° 22.1' 8Ex8 | April 1 58° 59, 135° 26 |
| nte stitude N. ouree, Magnetic** ype of Bottom | April 3 59° 10.7' 135° 27.1' SEXE | April 3 59° 09.1' 135° 25.4' 8ExE | April 4 59° 09.4' 135° 26.8' NE | 59° 10.7' 135° 25.9' | 59° 08.9' 135° 23.3 NxE | April 4 59° 09.7' 135° 24.8' | 59° 08.3 135° 24.4' 8E | April 4 59° 07.8' 135° 26.2' | April 4 59° 00.6' 135° 22.1' | 58° 59. |
| nte stitude N. ouree, Magnetic** ype of Bottom | April 3 59° 10.7' 135° 27.1' SEXE | April 3 59° 09.1' 135° 25.4' 8ExE | April 4 59 09.41 135 26.81 NE | 59° 10.7' 135° 25.9' Exs | 59° 08.9' 135° 23.3 NXE M. | April 4 59° 09.7' 135° 24.8' NxW | April 4 59° 08.3 135° 24.4,1 | April 4 59° 07.8' 135° 26.2' 8E | April 4 59° 00.6' 135° 22.1' SEXS | April 1 58° 59. 135° 22 8W M. |
| ate atitude N. ongitude W. ourse, Magnetic** (pe of Bottom spth Range in Fathoms | April 3 59° 10.7° 135° 27.1° 88xE | April 3 59° 09.1° 135° 25.4° 6ExE M. 62-66 | April 4 59 09.4 1 135 26.8 1 NE M. 52-54 | 59° 10.7° 135° 25.9° Exs M. 51-52 | 59° 08.9' 135° 23.3 NxE M. 42-58 | April L 59° 09.7' 135° 24.8' NxW M. 62-69 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 | April 4 59° 07.8' 135° 26.2' 8E M. 52-54 | April 4 59° 00.6' 135° 22.1' SEXS M. 60-66 | April 1 58° 59. 135° 26 8W M. 60 |
| ate atitude N. ongitude N. ourse, Magnetio** ype of Bottom epth Range in Fathoms ide | April 3 59° 10.7° 135° 27.1° 88xE 1,2-55 Ebb | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Ebb | April 4 59° 09.11' 135° 26.8' NE M. 52-514 Flood | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood | 59° 08.9' 135° 23.3 NxE M. 42-58 Flood | April 4 59° 09.7' 135° 24.8' NxW M. 62-69 Flood | April 4 59° 08.3 135° 24.4.4. 8E W. 68-72 Ebb | April 4 59° 07.8' 135° 26.2' 8E M. 52-54 Ebb | April 4 59° 00.6' 135° 22.1' 8Ex8 M. 60-66 Ebb | April 1 58° 59° 135° 22 sw M. 60 Ebb |
| ate stitude N. ongitude N. ongitude N. ourse, Magnetio"* ype of Bottom apth Range in Fathoms ide ime on Bottom in Minutes | April 3 59° 10.7° 135° 27.1° 88xE | April 3 59° 09.1° 135° 25.4° 6ExE M. 62-66 | April 4 59 09.4 1 135 26.8 1 NE M. 52-54 | 59° 10.7° 135° 25.9° Exs M. 51-52 | 59° 08.9' 135° 23.3 NxE M. 42-58 | April L 59° 09.7' 135° 24.8' NxW M. 62-69 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 | April 4 59° 07.8' 135° 26.2' 8E M. 52-54 | April 4 59° 00.6' 135° 22.1' SEXS M. 60-66 | April 58° 59. 135° 26 8W M. 60 |
| nte atitude N. ongitude W. ourse, Magnetic** ype of Bottom epth Range in Fathoms ide ime on Bottom in Minutes hrip Catch in Founds: | April 3 59° 10.7' 135° 27.1' 88xE 12-55 Ebb | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Bbb 30 | April 4 59° 09.11° 135° 26.8° NE M. 52-54 Flood 30 | 59° 10.7° 135° 25.9° 8x8 W. 51-52 Flood | 59° 08.9° 135° 23.3 MxE M. 42-58 Flood 30 | April 4 590 09.7' 1350 24.8' N.W. 62-69 Flood 30 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 Ebb 30 | April 4 59° 07.8' 135° 26.2' 8B M. 52-54 Ebb 30 | April L 590 00.61 135° 22.11 8Ex8 M. 60-66 Ebb 30 | April 1 58° 59. 135° 22 8W M. 60 Ebb |
| nte atitude N. ongitude W. ourse, Magnetic ** ype of Bottom epth Range in Fathoms ide ine on Bottom in Minutes hrinp Catch in Pounds: Pink | April 3 59° 10.7° 135° 27.1° 88xE 1,2-55 Ebb | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Ebb | April 4 59° 09.11' 135° 26.8' NE M. 52-514 Flood | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood | 59° 08.9' 135° 23.3 NxE M. 42-58 Flood | April 4 590 09.7' 1350 24.8' N.W. 62-69 Flood 30 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 Ebb 30 | April 4 59° 07.8' 135° 26.2' 8B M. 52-54 Ebb 30 | April 4 59° 00.6' 135° 22.1' 8Ex8 M. 60-66 Ebb | April 258° 599 135° 22 8W M. 60 Ebb |
| ate attitude N. ongitude W. ourse, Magnetic** ype of Bottom epth Range in Fathoms ide ime on Bottom in Minutes hrinp Catch in Pounds: | April 3 59° 10.7' 135° 27.1' 8ExE 12-55 Ebb 30 | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Bbb 30 | April 4 59° 09.11° 135° 26.8° NE M. 52-54 Flood 30 | 59° 10.7° 135° 25.9° 8x8 W. 51-52 Flood | 59° 08.9' 135° 23.3 NxE M. 42-58 Flood 30 | April 4 99° 09.7' 135° 24.8' Mx 62-69 Flood 30 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 Ebb 30 | April 4 59° 07.8' 135° 26.2' 8E M. 52-54 Ebb 30 | April L 590 00.61 1350 22.11 5Exs M. 60=66 Ebb 30 | April 58° 59. 135° 25 8W M. 60 8bb 30 |
| nte atitude N. ongitude W. ourse, Magnetic** ype of Bottom epth Range in Fathoms ide ine on Bottom in Minutes hrisp Catch in Pounds: Pink Bide_stripe | April 3 59° 10.7' 135° 27.1' 8ExE 12-55 Ebb 30 | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Bbb 30 | April 4 59° 09.11' 135° 26.8' NE M. 52-54 Flood 30 | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood 35 | 59° 08.9° 135° 23.3 MxE M. 42-58 Flood 30 | April 4 59° 09.7' 135° 24.8' NxW M. 62-69 Plood 30 65 6 | April 4 59° 08.3 135° 24.4; 8E M. 68-72 Ebb 30 | April 4 59° 07.8' 135° 26.2' 8B M. 52-54 Ebb 30 | April L 590 00.61 135° 22.11 8Ex8 M. 60-66 Ebb 30 | April 58° 59, 135° 23 8W M. 60 Rbb 30 |
| Side_stripe Coon-stripe | April 3 59° 10.7' 135° 27.1' SELE 12-55 Ebb 30 | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Bbb 30 | April 4 59° 09.11° 135° 26.8° NE M. 52-54 Flood 30 | 59° 10.7° 135° 25.9° 8x8 W. 51-52 Flood | 59° 08.9' 135° 23.3 NxE M. 42-58 Flood 30 | April 4 99° 09.7' 135° 24.8' Mx 62-69 Flood 30 | April 4 59° 08.3 135° 21.4.1.1 8E M. 68-72 Pbb 30 | April i 59° 07.8' 135° 26.2' 8E M. 52-54 Ebb 30 | April 1, 590 00.61 1350 22.11 8Ex8 M. 60-66 Ebb 30 | April 1 58° 59, 135° 26 8W M. 60 8bb 30 |
| nte atitude N. ongitude W. ourse, Magnetic ** ype of Bottom epth Range in Fathoms ide ine on Bottom in Minutes hrinp Catch in Pounds: Pink Side_stripe Coon-stripe Spot | April 3 59° 10.7' 135° 27.1' 88xE 12-55 5bb 30 | April 3 55° 09.1° 135° 25.4° 8Exe M. 62-66 Bbb 30 | April 4 59° 09.41° 135° 26.8° NE N. 52-54 Flood 30 | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood 35 | 59° 08.9° 135° 23.3° NxE M. 42-58 Flood 30 | April L 59° 09.7° 135° 21.8° NxW M. 62-69 Flood 30 65 6 | April 4 59° 08.3 135° 24.44.1 8E W. 68-72 Tab 30 | April i, 59° 07.8' 135° 26.2' 8E W. 52-54 Ebb 30 | April i 59° 00.6' 135° 22.1' 8Ex8 W. 60-66 Ebb 30 | April 58° 59, 135° 26 8W M. 60 8bb 30 53 2 * |
| ate atitude N. ongitude W. ourse, Magnetic** ype of Bottom opth Range in Fathoms ide ime on Bottom in Minutes hrimp Catch in Pounds: Pink Side_stripe Goon-stripe | April 3 59° 10.7' 135° 27.1' SELE 12-55 Ebb 30 | April 3 59° 09.1' 135° 25.4' 8ExE M. 62-66 Bbb 30 | April 4 59° 09.11° 135° 26.8° NE M. 52-54 Flood 30 | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood 35 | 59° 08.9' 135° 23.3 NxE M. 42-58 Flood 30 | April 4 59° 09.7' 135° 24.8' NxW M. 62-69 Plood 30 65 6 | April 4 59° 08.3 135° 21.4.1.1 8E M. 68-72 Pbb 30 | April i 59° 07.8' 135° 26.2' 8E M. 52-54 Ebb 30 | April 1, 590 00.61 1350 22.11 8Ex8 M. 60-66 Ebb 30 | April 58° 59. 135° 26 8W M. 60 8bb 30 53 |
| Attaitude N. ongitude N. ourree, Magnetic** ope of Bottom oph Range in Fathoms ide on Bottom in Minutes irinp Catch in Pounds: Pink Side_stripe Goon-stripe Spot | April 3 59° 10.7' 135° 27.1' 88xE 12-55 5bb 30 | April 3 55° 09.1° 135° 25.4° 8Exe M. 62-66 Bbb 30 | April 4 59° 09.41° 135° 26.8° NE N. 52-54 Flood 30 | 59° 10.7' 135° 25.9' Exs M. 51-52 Flood 35 | 59° 08.9° 135° 23.3° NxE M. 42-58 Flood 30 | April L 59° 09.7° 135° 21.8° NxW M. 62-69 Flood 30 65 6 | April 4 59° 08.3 135° 24.44.1 8E W. 68-72 Tab 30 | April i, 59° 07.8' 135° 26.2' 8E W. 52-54 Ebb 30 | April i 59° 00.6' 135° 22.1' 8Ex8 W. 60-66 Ebb 30 | April 58° 59 135° 28 8W M. 60 8bb 30 |

Table 1 - Fishing Log--Beam-Trawl Drags by the <u>John N. Cobb</u> in Southeastern Alaska, Spring 1951 (Lontd.)

| | | | | 1 | | | | | | T |
|--|------------------|-------------|-----------------------|-------------------------|-------------|-------------------------|-------------------|--------------------------|---------------------------|--------------------|
| Drag Number | 81 | 8.2 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| Date | April 5 | April 5 | April 5 | April 5 | April 5 | April 6 | April 6 | April 6 | April 6 | April 6 |
| Latitude N. | 59° 07.7° | 59° 13' | 59 15.81 | 59 13.91 | 59° 03.6° | 58° 55.5' 135° 19.6' | 58° 57' | 58° 46.8° | 58° 45.7' 134° 58.2' | 58° 44. |
| ongitude W. | 135° 16.4' | 135° 21.4' | 135° 23.9' | 135° 23.2' | 1350 22.31 | 135 19.0' | 195 21.11 | SEXS | ENE 58.2' | SSE 57 |
| Course, Magnetic ** | SEXE | NW | SE | WNW | SExS | W. | Muxu | | W. | M. |
| Type of Bottom | M. and S. | M. 62-66 | M. 68-66 | 68-72 | M. 88-97 | 52-56 | 58-56 | M. 118-511 | 60-68 | 70-84 |
| Depth Range in Fathoms | 108-120 | | | | | | | Flood | Flood | Slack |
| Tide | Flood | Flood | Slack | Slaok | Ebb 30 | Slack 30 | Early flood 30 | 30 | 30 | 30 |
| Time on Bottom in Minutes | 30 | 30 | 30 | 30 | 20 | 30 | 20 | 20 | 30 | 20 |
| Shrimp Catch in Pounds; | | 150 | 50 | 45 | 20 | 53 | 10 | 80 | 90 | 60 |
| Side-stripe | 20 | | 14 | 40 | 10 | 22 | | | 90 | 5 |
| Coon-stripe | 20 | 5 | 14 | 40 | 10 | 2 | 5 | 10 | | |
| | | | | | | | 2 | | | |
| Spot Total Catch on Hourly Basis | 40 | 310 | 128 | 170 | 60 | 110 | 30 | 180 | 180 | 130 |
| Total Caton on hourly basis | 40 | 210 | 120 | 110 | 00 | 110 | 90 | 100 | 100 | 150 |
| Frawling Bottom | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear |
| Remarks | | | | **** | | | | | | |
| Out and A D | | | | | | | | | | |
| | | | | | | - | | | | - |
| Orag Number | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 April 9 58 06.91 | 100 |
| Date | April 6 | April 8 | April 8 | April 8 | April 9 | April 9 | April 9 | April 9 | April 9 | April 9 |
| atitude N. | 5A0 12 01 | 57 58.71 | April 8 57 59.7 | 570 59.51 | 57° 59,71 | 570 59.81 | 570 50 61 | 570 59.31 | 58 06,91 | April 9 58 06. |
| ongitude W. | 134° 57.4° | 1330 43.4 | 1530 44.41 | 133° 43' | 1330 43.21 | 1330 42.91 | 1330 42.61 | 57° 59.3° 133° 48.5° | 1330 42.11 | 133° 43 |
| Course, Magnetic ** | SxW | NW | WW | WNW | SE | SE | ENE | B | 8 | 8xW |
| Type of Bottom | M. | м. | М. | M. | M. | M. | М. | M. | М. | M. |
| Depth Range in Fathoms | 90-96 | 76-86 | 84-100 | 76-100 | 66-76 | 56-66 | 50-4:0 | 116-124: | 68-72 | 80-89 |
| Tide | Ebb | Flood | Flood | Ebb | Slack | Slack | Early flood | Flood | Kbb | Ebb |
| ime on Bottom in Minutes | 24 | 30 | 30 | 30 | 30 | 30 | 30 | 32 | 6 | 30 |
| hrimp Catch in Pounds; | | | | 1 | | | | | | 1 |
| Pink | 10 | 15 | 15 | 10 | 70 | 175 | 147 | ma | | 25 |
| Side-stripe | 21 | 55 | 60 | 55 | 90 | 50 | | 30 | 3 | 175 |
| Coon-stripe | | | | | | | 3 | | | |
| Spot | | | | | | | | | | |
| Total Catch on Hourly Basis | 77 | 140 | 150 | 130 | 320 | 450 | 300 | 56 | 30 | 400 |
| | | 240 | */0 | *,00 | 200 | 14,70 | | | 1 | |
| rawling Bottom | Snag | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Mud | "Clear |
| lemarks | Hung up | | | | | | | | Beam mudded dow | |
| The state of the s | | | | Park y | | 10 March 2007 | | | | |
| | | | | - | | | | | | - |
| rag Number | 101 | 102 | 103 | 104 April 10 | 105 | 106 | 107 | 108 | 109 | 110 |
| ate | April 10 | April 10 | April 10 | April 10 | April 10 | April 10 | April 11 | April 11 | April 11 | April 1 |
| atitude N. | 58 06.61 | 580 06,21 | 580 05.31 | 580 03.11 | 580 01.61 | 580 00.81 | 580 11.41 | 58 09.61 134 08.51 | 580 101 | 58° 05. 134° 08 |
| ongitude W. | 1330 42.41 | 1330 14.21 | 133° Wi.8' | 1330 46.31 | 1330 46.11 | 1330 46.61 | 1340 07.21 | 134 08.5 | 1340 14.61 | 134 08 |
| ourse, Magnetio" | SW | SWES | S | SSE | ESE | NW | SxW | SEXS | SWAT | SEXS |
| ype of Bottom | M. | M, | M. | M. | M. | W. | M. | WARE 2 | M. | **** |
| epth Range in Fathoms | 76-80 | 86-94 | 96-103 | 112-110 | 104-108 | 110-112 | 114-116 | 116-118 | W-56 | 96-10h |
| ide | Ebb | Ebb | Early flood | Flood | Flood | Flood | Flood | Flood | Ebb | Flood |
| ime on Bottom in Minutes | 23 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 24 | 30 |
| hrimp Catch in Pounds: | | | | | | | | | | |
| Dink | 10 | 55 | 10 | 1 | | 4 | | 2 | 150 | |
| Side_stripe | 10 | 25 | 14 | 13 | 15 | 13 | 15 | 1 | | 10 |
| Coon-stripe | | | | | | | | | | - |
| Spot | | | | | | | | | | |
| Total Catch on Hourly Basis | 52 | 160 | 28 | 8 | 30 | 34 | 30 | 6 | 375 | 20 |
| man I day a Data and | | 100 | 100 | 1 | - | - | - | | | - |
| rawling Bottom | Mud | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear | Clear |
| marks | Beam mudded down | | **** | | | | **** | | | |
| | | | | | | | | | | _ |
| ag Number | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | |
| te | April 13 | April 13 | April 11 | April 14 | April 14 | April 11 | April 17 | April 18 | April 18 | |
| titude N. | 57 47.31 | 570 49.21 | April 14 57° 46.2' | 570 1.1 71 | 570 46.31 | April 11 570 142.71 | 560 50.61 | 560 El. 11 | 560 58.81 | |
| ogitude W. | 1340 04.31 | 1340 05.91 | 1340 01.9 | 57° 41.7' 134° 01.6' | 1340 051 | 1340 03.61 | 1330 54.51 | 56° 5/4.1' 133° 51.5' | 1340 05.71 | |
| urse, Magnetio ** | SExS | SE | WNW | NW OL.G. | SEXS | MAXA 05°0. | ESE SHAP | 133 31.3. | Ext | |
| pe of Bottom | Ric and M. | Rky | Ray | M. and Rky | M. | M. and Rky | BOD . | | | |
| pth Range in Fathoms | 80-84 | 70-80 | 54-56 | 60-70 | | 50 | 56-50 | 32-36 | rky. | 1000 |
| de . | Flood | Flood | Flood | Slack | 76-78 | | | | 60-58 | 111 |
| me on Bottom in Minutes | 30 | | Flood | Slack 30 | Early flood | Flood | Ebb | Flood | Slack | 100 |
| rimp Catch in Pounds: | 70 | 30 | 30 Pandalus dan | | 25 | 30 | 30 | 30 | 30 | - |
| Pink | 1 | 75 | 20-Pandalus dan | - 200 | 10 | 166 | 200 | No. | | 1 |
| Side-stripe | 16 | 75 | 330 21 | 1500 | | 165 | 278 | 140 | | |
| Coon-etripe | 10 | 13 | **** | | 10 | 18 | 28 | 10 | | 10000 |
| Spot | | 2 | | 2 | 3 | 10 | 52 | 10 | | |
| Total Catch on Hourly Basis | 34 | 180 | 140 | 408 | 55 | 370 | 24 | 300 | - | 1 |
| | | | | | | _ | | | | |
| Frawling Bottom | Clear | Rough | Rough | Clear | Mnd | Class | 03 | Class | | |

| Locality | Drag | Date, | Species | No. | Number whole | Average | Depth of | Percent | | | 70 | | Various : | Size Groups : | in Inches* | | | | |
|--|------|-------|-------------|--------------|---------------------|-------------------|--------------------|-----------|-----------|--|---------|---------------------------------------|-----------|----------------|------------|---------------|----------|---------|-------|
| 241 | no. | 1951 | | in sample | shrimp per pound | size in inches | gear in fathoms | with eggs | 1.5-2.0 | 2.0-2.5 | 2.5-3.0 | 3.0-3.5 | 3.5-4.0 | 4.0-4.5 | 4-5-5-0 | 5.0-5.5 | 5.5-6.0 | 6,0-6,5 | 6.5-7 |
| Idaho Inlet | 1 | 3-14 | Pink | 152 | 194 | 2.2 | 20-29 | 00 | 39 | 58 | 3 | · · · · · · · · · · · · · · · · · · · | (PER | CENTAGE OF TOT | AL) | | | | |
| | 3 | 3-15 | Pink | 205 | 128 | 2.5 | 28-32 | 7 | 5 | 47 | 38 | 10 | | | | | | | |
| | - 3 | 3-15 | Coon-stripe | 208 | 29 | 3.7 | 28-32 | 25 | | 2 | 6 | 16 | 51 | 22 | 2 | 1 | 200 | 7700 | |
| | 4 | 3-15 | Pink | 778 | 86 | 2.7 | 32-36 | 33 | 3 | 38 | 25 | 31 | 3 | | | | | | - |
| | 4 | 3-15 | Side-stripe | 118 | 23 | 4.6 | 32-36 | 97 | | | | | 2 . | 44 | 54 | 3 | - | | - |
| Port Frederick | 10 | 3-17 | Pink | 163 | 180 | 5.14 | 46-52 | 1 | 2 | 69 | 23 | 6 | | | | | | | |
| | 13 | 3-18 | Pink | 134 | 68 | 2.9 | 72-80 | 75 | 1 1 1 1 1 | 16 | 10 | 48 | 25 | 1 | P 10 | - | | 0984 | 1199 |
| | 15 | 3-18 | Pink | 216 | 78 | 3.1 | 76-86 | 74 | 2 | 16 | 15 | 148 | 19 | | G 4 15 | | 20 1 | 5-9-9 | |
| | 19 | 3-19 | Pink | 157 | 66 | 3.0 | 50-72 | 63 | -25 | 24 | 17 | 40 | 19 | | 19 | 100 | 200 | 8. 9. 9 | |
| 100 | 21 | 3-19 | Pink | 180 | 66 | 2.9 | 68-56 | 48 | | 32 | 23 | 36 | 9 | 19 | 5-615 | 10.1 | 0 | 100 | |
| a surrena | 21 | 3-19 | Side-stripe | 82 | 34 | 4.0 | 68-56 | 15 | | | | 28 | 28 | 23 | 12 | 6 | 3 | 100 | |
| Off Pleasant Is. | 31 | 3-21 | Side-stripe | 138 | 23 | 4.6 | 78-86 | 56 | | American de la companya della companya de la companya de la companya della compan | H-10-1 | 3 | 21 | 15 | 26 | 33 | 2 | 100000 | |
| Stephens Passage | 43 | 3-26 | Side-stripe | 87 | 16 | 4.7 | 80-86 | 52 | | 2 | 3 | 7 | 1 | 30 | 21 | 24 | 12 | | |
| | 45 | 3-26 | Pink | 138 | 80 | 3.4 | 60-65 | 69 | | 5 | 5 | 59 | 30 | 1 | | | | | |
| | 46 | 3-26 | Pink | 175 | 63 | 3.4 | 43-50 | 87 | | 1 | 7 | 55 | 26 | 1 | | | | | |
| Taku Inlet | 58 | 3-29 | Pink | 125 | 132 | 2.9 | 64-66 | 1 ** | | 21 | 33 | 45 | 1 | 7 | | 100 | 447 | | |
| | 58 | 3-29 | Side-stripe | 15 | | 3.9 | 64-66 | 100 | | | | 33 | 13 | 47 | 7 | | | | |
| Chilkat Inlet | 72 | 4-3 | Pink | 119 | 87 | 3.1 | 62-66 | 11 | | 15 | 12 | 63 | 8 | 2 | | | 100 | - Hills | |
| | 72 | 4-3 | Side_stripe | 31 | | 3.9 | 62-66 | 00 | | | | 48 | 13 | 16 | 13 | 10 | Market 1 | | |
| Berners Bay | 88 | 4-6 | Pink | 165 | 92 | 2.9 | 48-54 | 17 | | 21 | 29 | 46 | 4 | mad price | - | A SHALL SHALL | | and the | |
| | 91 | 4-6 | Pink | lels | 78 | 3.1 | 90-96 | 32 | | 12 | 20 | 52 | 16 | | | | | | |
| La constitue de la constitue d | 91 | 4-6 | Side-stripe | 279 | 34 | 4.5 | 90-96 | 43 | | 1 | 8 | 10 | 35 | 20 | 23 | 3 | | | |
| Port Snettisham | 96 | 4-9 | Pink | 144 | 64 | 3.2 | 56-66 | 51 | | 10 | 24 | 47 | 18 | 1 | 97-30 E | | | | |
| Stephens Passage | 109 | 4-11 | Pink | 155 | 72 | 3.1 | 144-56 | 46 | | 24 | 16 | 54 | 6 | The same | | · manufact | | | |
| Seymour Canal | 112 | 4-13 | Pink | 139 | 102 | 2.9 | 70-80 | 32 | | 30 | 28 | 24 | 18 | - | - | | | | |
| | 116 | 4-14 | Pink | 140 | 90 | 2.9 | 50 | 73 | | 18 | 41 | 38 | 3 | To be | | | | | |
| A Company of the last | 116 | 4-14 | Spot | 12 | 10 | 5.3 | 50 | 00*** | | | | -1- | | | AR ST | the state of | | 9 19 2 | |
| Keku Strait | 117 | 4-17 | Pink | 106 | 68 | 3.0 | 56-50 | 85 | | 7 | 49 | 38 | 6 | - | | - | | | |
| | 117 | 4-17 | Coon-strips | 35 | 22 | 3.8 | 56-50 | 67 | | 3 | 26 | 34 | - 32 | 5 | | | | | |

^{*}MEASUREMENTS ARE FROM CENTER OF EYE TO TIP OF TAIL.

^{**}SHRIMP IN SOFT-SHELL CONDITION.
***MANY OF LARGER SIZES WITH RECOGNIZABLE DEVELOPING EGGS.

| | -200 | | | | | | Shrimp catch | | |
|-------------------|------|---------|-----------|---------------------------|-------------|-------------|--------------------|-------------|---|
| Vicinity | Date | Set No. | No. traps | Depth range in fathoms | Total hours | Spot shrimp | Coon-stripe shrimp | Pink shrimp | Remarks |
| Idaho Inlet | 3-15 | 1 | 12 | 32 - 80 | 32 | | | Few | Wany gastropods and hermit orabsmud bottom. |
| Porpoise Islands | 3-19 | 2 | 10 | 56 - 86 | 52 | 35 pounds | 5½ pounds | | All traps on mud bottom except trap with spot shrimp. |
| Teiya Inlet | 3-31 | 3 | 3 | 36 - 43 | 15 | | Les pounds | | Coon-stripe shrimp, large. |
| Off Skagway River | 3-31 | 4 | 2 | 46 - 45 | 15 | **** | | Fee | Pink shrimp in spawning condition. |
| Chilkoot Inlet | 4-1 | 5 | 7 | 26 - 65 | Lila | 28 shrimp | | **** | Spot shripp were in one trap, bait bags not touched. |
| Port Smettisham | 4-8 | 6 | 7 | 40 - 74 | 22 | | 12 pounds | 1½ pounds | Mud bottom, coon-stripe shrisp, large. |
| Point Pybus | 4-13 | 7 | 10 | 16 - 88 | 25 | 8 pounds | | | Spot shrimp were taken from traps set at about 80 fathoms. |
| Seymour Canal | 4-15 | 8 | 4 | 35 - 80 | 18 | 1 pound | 1‡ pounds | Few | Few hermit orahs, 1 octopus. |
| | 4-15 | 9 | 11 | 38 - 80 | 19 | 134 pounds | | | 9 pounds of spot shrimp in one trap. Small spot shrimp taken from traps set in shallow water. |
| Keku Strait | 4-16 | 10 | 15 | 30 - 86 | 23 | 2 pounds | | | Many large gastropods, "sand fleas" cleaned out bait bags. |
| | 4-17 | 11 | 12 | 20 - 55 | 21 | Yew | Tew | Few | Many small sea urchins, most of the bait cleaned out by "sand fleas" and hermit crabs. |

| Locality | Trap, set | Date, | Species | 150 x | Number whole | | | | | | | | arious | its Groups | in Inches | | | | |
|-----------------|-----------|-------|-------------|--------|---------------------|-------------------|--------------------|-----------|---------|---------|---------|---------|---------|----------------|-----------|---------|---------|---------|--------|
| | number | 1951 | | surple | shrimp per pound | size in inches | gear in fathoms | with eggs | 1.5-2.0 | 2,0-2,5 | 2.5-3.0 | 3.0-3.5 | 3.5-4.0 | les O-les 5 | 4.5-5.0 | 5.1-5.5 | 5.5-6.0 | 6,0-6,5 | 6.5-7. |
| Taiya Inlet | 3 | 3-31 | Coon-stripe | 121 | 16 | lieli | 36 - 46 | 18* | | | 1 | 5 1 | 18 | MIAGE OF TOTAL | 140 | 3 | 1 | 1 | |
| Port Snettiahan | 6 | 4-8 | Goon-stripe | 155 | 10 | 4.8 | 40 - 74 | 64, | | | 1 | L | 5 | 13 | 22 | 47 | 8 | | |
| Point Pybus | 7 | 4-13 | Spot | 45 | 7 | 5.0 | 16 - 88 | 00* | | | | 2 | 6 | 20 | 25 | 15 | 26 | 5 | 3 |
| Seymour Canal | 8 | 4-15 | Coon-stripe | 30 | 27 | 3.3 | 35 - 80 | 13 | | | 2 | 30 | 30 | 23 | 10 | 4 | | 1 - 10 | |
| | 8 | 4-15 | Pink | 27 | | 3.5 | 35 - 80 | 100 | | | | lab | 56 | | | | | | 1 |
| | 9 | 4-15 | Spot | 132 | 7 | 4.5 | 38 - 80 | 1* | | | 1 | 19 | 23 | 17 | 8 | 10 | 16 | 4 | 2 |

| | | | | | | Tab | le 5 - Crab Pot Catch | ** | |
|-------------|------|---------|-----------|---------------------------|-------------|-------------|-----------------------|---------|---|
| Vicinity | Date | Set No. | No. traps | Depth range in fathoms | Total hours | Legal males | Dungeness creb catch | Females | Penaries |
| Neks Bay | 3-18 | 1 | 6 | 8 - 10 | 2h | | 1 | Titan 3 | Tammer orabs and large starfish also present. |
| loy Passage | 3-20 | 2 | 6 | 10 - 24 | 39 | 8 | 3 | 4 | 17 small king orab. |
| foung Bay | 3-27 | 3 | 6 | 14 - 24 | 16 | **** | | | 3 king orab, 14 tanner orab. |
| Lutak Inlet | 4-1 | 4 | . 5 | 11 - 18 | 27 | 3 | **** | **** | 30 mail tammer crab, |