



UNIVERSITY OF WASHINGTON

DEPARTMENT OF

OCEANOGRAPHY

Technical Report No. 67
**PHYSICAL AND CHEMICAL DATA
FOR SOUTHERN PUGET SOUND**

August 1957 - October 1958

Compiled by

E. E. Collias, J. Dermody, and C. A. Barnes

State of Washington
Department of Fisheries

Reference M62-8
March 1962

Office of Naval Research
Contract Nonr-477(10)
Project NR 083 012



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ABSTRACT

THIS REPORT IS A TABULATION OF PHYSICAL AND CHEMICAL OBSERVATIONS MADE AT VARIOUS LOCATIONS IN SOUTHERN PUGET SOUND BY THE UNIVERSITY OF WASHINGTON, DEPARTMENT OF OCEANOGRAPHY DURING THE PERIOD FROM AUGUST 1957 TO OCTOBER 1958. CHARTS SHOW THE POSITIONS OF THE STATIONS SAMPLED. VALUES FOR TEMPERATURE, SALINITY, DISSOLVED OXYGEN AND DISSOLVED INORGANIC PHOSPHATE ARE GIVEN AT SELECTED DEPTHS FROM THE SURFACE TO BOTTOM.

INTRODUCTION

THIS REPORT IS A TABULATION OF CHEMICAL AND PHYSICAL DATA COLLECTED AT VARIOUS LOCATIONS IN SOUTHERN PUGET SOUND FROM AUGUST 1957 TO OCTOBER 1958 BY UNIVERSITY OF WASHINGTON PERSONNEL DURING A SURVEY KNOWN AS PUGET SOUND OYSTER STUDIES II. THIS SURVEY WAS SUPPORTED PARTLY BY THE OFFICE OF NAVAL RESEARCH AND PARTLY BY THE STATE OF WASHINGTON, THE LATTER THROUGH ACTION BY THE WASHINGTON STATE LEGISLATURE SESSION OF 1957 WHICH APPROPRIATED 75,000 DOLLARS TO THE WASHINGTON STATE DEPARTMENT OF FISHERIES FOR THE STUDY OF OYSTER MORTALITY (LAWS OF WASHINGTON STATE, 1957). A PORTION OF THESE FUNDS WERE MADE AVAILABLE TO THE DEPARTMENT OF OCEANOGRAPHY FOR FIELD STUDIES. THE RESULTS OF THESE FIELD STUDIES ARE PRESENTED HEREIN.

TWO CHARTER VESSELS -SMOKEY AND MIDA- AND THE DEPARTMENT OF OCEANOGRAPHY RESEARCH VESSEL -BROWN BEAR- WERE USED TO COLLECT THE DATA.

THE DATA PRESENTED IN THIS REPORT WERE PROCESSED BY MACHINE METHODS. AFTER THE DEPTHS AND TEMPERATURE READINGS HAD BEEN CORRECTED AND THE CHEMICAL ANALYSES COMPLETED, THESE DATA WERE PUNCHED ON IBM CARDS. THEN CALCULATIONS OF SALINITY, SIGMA-T, OXYGEN ML/L AND OXYGEN SATURATION WERE MADE USING THE IBM 650 MAGNETIC DRUM DATA PROCESSING MACHINE. PORTIONS OF THE ORIGINAL DATA AND COMPUTED VALUES BASED ON THESE DATA WERE THEN PUT INTO TABULAR FORM BY MEANS OF THE IBM 407 TABULATOR.

MEASUREMENTS OF WATER CURRENT WERE MADE IN FEBRUARY 1958 AT TWO LOCATIONS, ONE IN HAMMERSLEY INLET AND THE OTHER IN TOTTEN INLET. SPEED AND DIRECTION OF THE CURRENTS WERE OBTAINED BY EKMAN-TYPE MECHANICAL CURRENT METERS LOWERED FROM AN ANCHORED VESSEL. THE OBSERVED VALUES ARE TABULATED BEGINNING ON PAGE 140.

A PORTION OF THE PHYSICAL AND CHEMICAL DATA WAS USED BY MR. NECIP OLCAY IN AN ANALYSIS OF OCEANOGRAPHIC CONDITIONS NEAR THE HEAD OF SOUTHERN PUGET SOUND (OLCAY, 1959).

STATION LOCATION CHARTS ARE PRESENTED BEFORE THE DATA FOR EACH CRUISE (SEE PAGES 1, 8, 16, 21, 26, 33, 40, 47, 54, 67, 74, 81, 89, 96, 104, 111, 118, 125 AND 132).

AN EXPLANATION OF THE ABBREVIATIONS AND HEADING USED IN THE TABLES OF DATA ARE GIVEN AS FOLLOWS --

CRUISE THE LETTERS --PSO-- DESIGNATE THE SURVEY AS THE PUGET SOUND OYSTER STUDY WHILE THE LETTERS --BB-- INDICATE THE VESSEL BROWN BEAR. THE NUMBERS DESIGNATE THE PARTICULAR CRUISE MADE DURING THE SURVEY.

STATION OCEANOGRAPHIC STATIONS ARE NUMBERED CONSECUTIVELY WITHIN A GIVEN CRUISE.

THE NAME FOLLOWING THE STATION NUMBER IS THE CLOSEST SIGNIFICANT LANDMARK TO THE STATION.

DATE MONTH, DAY, AND YEAR.

HR (HOUR) TIME WHEN THE FIRST MESSENGER WAS RELEASED.

ZN (ZONE) LOCAL TIME ZONE. 08 IS PACIFIC STANDARD TIME.

LAT LATITUDE IN DEGREES AND NEAREST 0.1 MINUTE.

LONG LONGITUDE IN DEGREES AND NEAREST 0.1 MINUTE.

AREA THE AREA CODE LOCATES THE STATION WITHIN A GEOGRAPHIC AREA AS INDICATED BELOW --

| | |
|-----|-------------------|
| BUD | BUDD INLET |
| CLV | COLVOS PASSAGE |
| CRR | CARR INLET |
| CSE | CASE INLET |
| DNA | DANA PASSAGE |
| ELD | ELD INLET |
| HDR | HENDERSON INLET |
| HAM | HAMMERSLEY INLET |
| NRR | TACOMA NARROWS |
| NSQ | NISQUALLY REACH |
| OAK | OAKLAND BAY |
| PSB | PUGET SOUND BASIN |
| PLE | PEALE PASSAGE |
| PCK | PICKERING PASSAGE |
| SQX | SQUAXIN PASSAGE |
| TOT | TOTTEN INLET |

SDG DEPTH OF WATER IN METERS OBTAINED BY MEANS OF AN ECHO SOUNDER. (APPLIES ONLY TO BROWN BEAR CRUISE 187.)

TIDE HT HEIGHT OF TIDE ABOVE MEAN LOWER LOW WATER (MLLW) IN FEET

STG THE TIDE STAGE DESIGNATED AS FOLLOWS --

| | |
|---|---------------|
| L | LOW WATER |
| R | RISING WATER |
| H | HIGH WATER |
| F | FALLING WATER |

WSPD WIND SPEED IN KNOTS (MEASURED AT A HEIGHT OF ABOUT SIX FEET ABOVE THE WATER).

DIR WIND DIRECTION EXPRESSED IN DEGREES TRUE.

WEA

WEATHER REPORTED IN CODE GIVEN IN H.O. PUBLICATION NO. 606-C. CODE DESIGNATIONS USED IN THIS REPORT ARE AS FOLLOWS -

| | |
|----|--|
| 01 | CLOUDS GENERALLY DISSOLVING |
| 02 | CLOUDS REMAINING UNCHANGED |
| 03 | INCREASING CLOUDINESS |
| 20 | DRIZZLE (NOT FREEZING) |
| 45 | FOG, SKY NOT DISCERNIBLE, REMAINING CONSTANT |
| 61 | RAIN, NOT FREEZING, CONTINUOUS, SLIGHT AT TIME OF OBSERVATION |
| 63 | RAIN, NOT FREEZING, CONTINUOUS, MODERATE AT TIME OF OBSERVATION |
| 65 | RAIN, NOT FREEZING, CONTINUOUS, HEAVY AT TIME OF OBSERVATION |

SEA

SEA STATE CODED AS FOLLOWS--

| | |
|---|--|
| 0 | CALM, GLASSY, NO WAVES |
| 1 | CALM, SMOOTH, WAVES LESS THAN 4 INCHES |
| 2 | SMOOTH, WAVELETS, WAVES LESS THAN 20 INCHES |
| 3 | SLIGHT, WAVES UP TO 4 FEET |

BAR

BAROMETRIC PRESSURE IN MILLIBARS (ADD 900 TO VALUES GREATER THAN 50, AND 1000 TO VALUES LESS THAN 50).

DRY

AIR TEMPERATURE, DRY BULB, IN DEGREES FAHRENHEIT.

WET

AIR TEMPERATURE, WET BULB, IN DEGREES FAHRENHEIT.
(APPLIES ONLY TO BROWN BEAR CRUISE 187)

RELHU

RELATIVE HUMIDITY EXPRESSED IN PERCENT
(APPLIES ONLY TO BROWN BEAR CRUISE 187)

CL

CLOUD TYPE CODED FOR THE SIGNIFICANT CLOUD LAYER AS FOLLOWS--

| | |
|-------|--------------------------------|
| BLANK | NO CLOUDS |
| 0 | STRATUS OR FRACTOSTRATUS |
| 1 | CIRRUS |
| 2 | CIRROSTRATUS |
| 3 | CIRROCUMULUS |
| 4 | ALTOCUMULUS |
| 5 | ALTOSTRATUS |
| 6 | STRATOCUMULUS |
| 7 | NIMBOSTRATUS |
| 8 | CUMULUS OR FRACTOCUMULUS |
| 9 | CUMULONIMBUS |
| X | NOT OBSERVED OR NOT OBSERVABLE |

AMT

CLOUD AMOUNT CODED AS FOLLOWS--

| | |
|---|----------------------------|
| 0 | NO CLOUDS |
| 1 | LESS THAN 0.1 OR 0.1 COVER |
| 2 | FROM 0.1 TO 0.3 COVER |
| 3 | 0.4 COVER |
| 4 | 0.5 COVER |
| 5 | 0.6 COVER |
| 6 | 0.7 TO 0.8 COVER |
| 7 | 0.9 COVER |
| 8 | COMPLETE OVERCAST |
| 9 | SKY OBSCURED |

SCI

SECCHI DISK READING. I.E., THE DEPTH IN METERS TO WHICH A 30-CM WHITE DISC WAS SEEN ON DAYLIGHT STATIONS

SPOB SPECIAL OBSERVATION DESIGNATED AS FOLLOWS--
 2 PLK 0.5 INDICATES THAT TWO PLANKTON HAULS WERE MADE WITH A 0.5 METER PLANKTON NET

DEPTH CORRECTED DEPTH (IN METERS) AT WHICH THE WATER SAMPLE WAS OBTAINED.

TEMP. WATER TEMPERATURE IN DEGREES CENTIGRADE WITH A PROBABLE ERROR OF LESS THAN 0.1 DEGREE.

SAL. SALINITY IN PARTS PER THOUSAND BY WEIGHT.
 SALINITY WAS DETERMINED BY TITRATION ON ALL CRUISES EXCEPT PSO-11 AND PSO-12 BY THE KNUDSEN TITRATION METHOD (OXNER, 1920). FOR THE OTHER TWO CRUISES A UNIVERSITY OF WASHINGTON SALINOMETER (PAQUETTE, 1958) WAS USED. THE PROBABLE ERROR FOR TITRATED SAMPLES IS LESS THAN 0.035 PARTS PER THOUSAND WHILE THE SALINOMETER HAS A PROBABLE ERROR OF LESS THAN 0.010 PARTS PER THOUSAND.

SIGMA-T AN EXPRESSION FOR THE DENSITY OF SEA WATER, AT ATMOSPHERIC PRESSURE AND ITS IN SITU TEMPERATURE AND SALINITY, DEFINED BY THE EQUATION --

$$\text{SIGMA-T} = (\text{DENSITY} - 1) \times (1000)$$

OXYGEN

MG.AT. CONCENTRATION OF DISSOLVED OXYGEN EXPRESSED IN MILLIGRAM-ATOMS OF OXYGEN PER LITER OF SEA WATER AS DETERMINED BY THE MODIFIED WINKLER METHOD DESCRIBED BY THOMPSON AND ROBINSON (1939).
 TO CONVERT FROM MILLIGRAM-ATOMS TO PARTS PER MILLION OF DISSOLVED OXYGEN, MULTIPLY MG. AT. BY 16.0 AND DIVIDE BY THE DENSITY.

ML/L CONCENTRATION OF DISSOLVED OXYGEN PER LITER OF SEA WATER, EXPRESSED IN MILLILITERS OF OXYGEN GAS AT NORMAL PRESSURE AND TEMPERATURE

SATN. RATIO (EXPRESSED IN PERCENT) OF OXYGEN ACTUALLY DISSOLVED IN THE SAMPLE TO THE AMOUNT OF OXYGEN NECESSARY TO SATURATE A SAMPLE AT THE SAME TEMPERATURE AND SALINITY. VALUES FOR SATURATION WERE OBTAINED FROM THE EQUATION OF TRUESDALE AND GAMESON (1957).

PHOS. AMOUNT OF SOLUBLE INORGANIC PHOSPHATE EXPRESSED IN MICROGRAM-ATOMS PER LITER AS DETERMINED BY THE METHOD OF ROBINSON AND THOMPSON (1948) EXCEPT THAT COLOR INTENSITIES WERE MEASURED WITH A BECKMAN SPECTRO-PHOTOMETER MODEL DU. A CONSTANT TEMPERATURE WATER BATH SET AT 27 DEGREES CENTIGRADE WAS USED TO BRING ALL SAMPLES AND STANDARDS TO THE SAME TEMPERATURE.

SSL AMOUNT OF SPENT SULFITE LIQUOR EXPRESSED IN PARTS PER MILLION, BASED ON STANDARDS CONTAINING TEN PERCENT SOLIDS BY WEIGHT. A BLOW-PIT LIQUOR SAMPLE, OBTAINED FROM THE RAYONIER MILL AT SHELTON, JUST PRIOR TO CLOSURE OF THE MILL, WAS USED AS THE STANDARD. ALL SAMPLES AND STANDARDS WERE ANALYZED BY A MODIFIED PEARL-BENSON TECHNIQUE (LINDSAY, WESTLEY AND WOELKE, 1960).

NO INTERPOLATED VALUES ARE REPORTED. ASTERICKS (*) IN THE STATION HEADINGS INDICATE THAT THE VALUE WAS NOT OBSERVED. IF A WATER PROPERTY WAS NOT OBSERVED AT A STATION (E. G., PHOS.) THE COLUMN HEADING FOR THAT PROPERTY WAS OMITTED. DASHES INDICATE VALUES WERE REJECTED AS BEING QUESTIONABLE.

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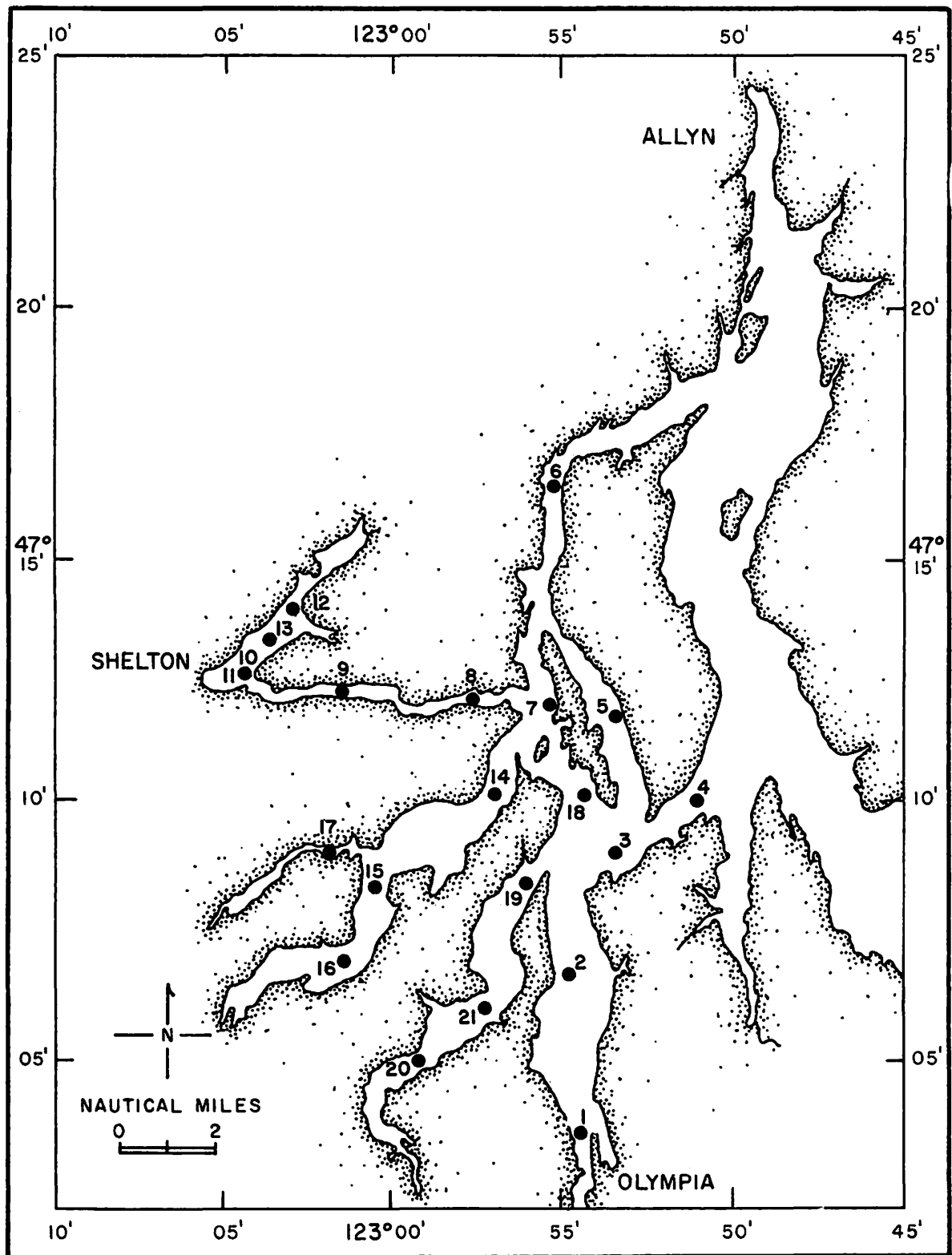
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OCEANOGRAPHIC STATION LOCATIONS
 PSO-01 2-3 AUG. 1957

CRUISE PSO 01 STATION 001 BUDD INLET BUOY NO 12

DATE 08/02/57 HR 927 ZN 08 LAT 47-03.6N LONG 122-54.4W AREA BUD
 TIDE HT 10.0 STG F WSPD 06 DIR 360 WEA 02 SEA 1 BAR * DRY *
 CL AMT SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.78 | 24.183 | 17.54 | 0.457 | 5.12 | 89 | -- | 6 |
| 2 | 14.57 | 28.607 | 21.17 | 0.410 | 4.59 | 80 | -- | 2 |
| 6 | 14.00 | 28.905 | 21.51 | 0.366 | 4.10 | 71 | -- | 3 |

CRUISE PSO 01 STATION 002 GULL HARBOR

DATE 08/02/57 HR 1023 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 08.2 STG F WSPD 07 DIR 360 WEA 02 SEA 1 BAR * DRY 77.0
 CL AMT SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.22 | 28.526 | 20.76 | 0.798 | 8.94 | 161 | 1.85 | 2 |
| 2 | 15.26 | 28.775 | 21.16 | 0.773 | 8.66 | 153 | 2.16 | 2 |
| 5 | 14.49 | 28.968 | 21.46 | 0.644 | 7.21 | 126 | 2.70 | 3 |
| 10 | 13.74 | 29.098 | 21.71 | 0.486 | 5.44 | 93 | 2.63 | 2 |
| 15 | 13.44 | 29.157 | 21.82 | 0.473 | 5.30 | 90 | 2.27 | 3 |

CRUISE PSO 01 STATION 003 DOVER POINT

DATE 08/02/57 HR 1117 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 06.4 STG F WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 77.0
 CL AMT SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.94 | 29.100 | 21.68 | 0.508 | 5.69 | 98 | 2.35 | 3 |
| 5 | 13.58 | 29.170 | 21.80 | 0.495 | 5.54 | 95 | 2.37 | 2 |
| 10 | 13.62 | 29.170 | 21.79 | 0.495 | 5.54 | 95 | 2.23 | 2 |
| 20 | 13.62 | 29.179 | 21.80 | 0.494 | 5.53 | 95 | 1.98 | 3 |
| 30 | 13.52 | 29.193 | 21.83 | 0.492 | 5.51 | 94 | 2.15 | 3 |
| 40 | 13.50 | 29.188 | 21.83 | 0.490 | 5.49 | 94 | 2.03 | 3 |

CRUISE PSO 01 STATION 004 DICKENSON POINT

DATE 08/02/57 HR 1230 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 TIDE HT 03.6 STG F WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 79.0
 CL AMT SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.27 | 29.165 | 21.66 | 0.511 | 5.72 | 99 | 2.29 | 3 |
| 5 | 13.72 | 29.183 | 21.78 | 0.502 | 5.62 | 96 | 2.44 | 2 |
| 10 | 13.46 | 29.228 | 21.87 | 0.495 | 5.54 | 95 | 2.36 | 2 |
| 20 | 13.38 | 29.231 | 21.89 | 0.493 | 5.52 | 94 | 2.18 | 2 |
| 30 | -- | 29.331 | -- | 0.464 | 5.20 | --- | 2.08 | 3 |

CRUISE PSO 01 STATION 005 PEALE PASSAGE

DATE 08/02/57 HR 1330 ZN 08 LAT 47-11.8N LONG 122-53.5W AREA PLE
 TIDE HT 01.7 STG F WSPD 06 DIR 045 WEA 02 SEA 1 BAR * DRY 80.0
 CL AMT SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.99 | 28.921 | 20.89 | 0.559 | 6.26 | 115 | 2.33 | 3 |
| 2 | 15.40 | 28.894 | 21.22 | 0.708 | 7.93 | 140 | 2.24 | 3 |
| 4 | 14.83 | 28.914 | 21.35 | 0.634 | 7.10 | 124 | 2.05 | 4 |
| 8 | 14.44 | 28.993 | 21.49 | 0.557 | 6.24 | 108 | 2.05 | 3 |
| 12 | 14.68 | 29.049 | 21.49 | 0.507 | 5.68 | 99 | 2.11 | 4 |

CRUISE PSO 01 STATION 006 GRANT

DATE 08/02/57 HR 1427 ZN 08 LAT 47-16.3N LONG 122-55.4W AREA PCK
 TIDE HT 00.4 STG L WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 83.0
 CL AMT SCI 06 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.41 | 28.836 | 21.17 | 0.523 | 5.86 | 104 | 2.49 | 3 |
| 5 | 14.83 | 28.906 | 21.35 | 0.518 | 5.80 | 102 | 2.27 | 4 |
| 10 | 14.29 | 28.953 | 21.49 | 0.490 | 5.49 | 95 | 2.28 | 4 |
| 15 | 14.16 | 28.970 | 21.53 | 0.484 | 5.42 | 94 | 2.23 | 4 |

CRUISE PSO 01 STATION 007 ARCADIA

DATE 08/02/57 HR 1519 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 01.2 STG R WSPD 07 DIR 200 WEA 02 SEA 1 BAR * DRY 79.0
 CL AMT SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.98 | 28.695 | 20.94 | 0.526 | 5.89 | 105 | 2.29 | 4 |
| 2 | 15.89 | 28.710 | 20.97 | 0.531 | 5.95 | 106 | 1.93 | 4 |
| 5 | --- | 28.733 | --- | 0.535 | 5.99 | --- | 1.89 | 3 |
| 10 | 15.48 | 28.764 | 21.10 | 0.525 | 5.88 | 104 | 1.92 | 4 |

CRUISE PSO 01 STATION 008 CANNERY POINT

DATE 08/02/57 HR 1557 ZN 08 LAT 47-12.2N LONG 122-58.4W AREA HAM
 TIDE HT 02.7 STG R WSPD 07 DIR 200 WEA 02 SEA 1 BAR * DRY 79.0
 CL AMT SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.28 | 28.406 | 20.65 | 0.478 | 5.35 | 96 | 2.11 | 5 |
| 3 | 16.25 | 28.401 | 20.66 | 0.478 | 5.35 | 96 | 2.21 | 5 |

CRUISE PSO 01 STATION 009 CHURCH POINT, W OF

DATE 08/02/57 HR 1635 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 03.2 STG R WSPD 08 DIR 200 WEA 02 SEA 1 BAR * DRY 77.0
 CL AMT SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.84 | 28.009 | 20.23 | 0.419 | 4.69 | 85 | 2.12 | 3 |
| 2 | 16.82 | 28.011 | 20.23 | 0.417 | 4.67 | 85 | 2.27 | 6 |
| 4 | 16.85 | 28.011 | 20.23 | 0.418 | 4.68 | 85 | 2.37 | 5 |
| 7 | 16.79 | 28.015 | 20.24 | 0.417 | 4.67 | 85 | 2.30 | 5 |
| 10 | 16.79 | 28.022 | 20.25 | 0.416 | 4.66 | 84 | 2.23 | 6 |
| 15 | 16.76 | 28.031 | 20.26 | 0.415 | 4.65 | 84 | 2.06 | 5 |

CRUISE PSO 01 STATION 010 SHELTON

DATE 08/02/57 HR 1712 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 04.0 STG R WSPD 03 DIR 200 WEA 03 SEA 1 BAR * DRY 77.0
 CL 4 AMT 2 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.74 | 27.298 | 19.00 | 0.413 | 4.63 | 88 | 2.37 | 6 |
| 2 | 17.89 | 27.450 | 19.56 | 0.394 | 4.41 | 81 | 2.54 | 5 |
| 4 | 16.90 | 27.769 | 20.03 | 0.374 | 4.19 | 76 | 2.53 | 6 |
| 7 | 16.70 | 27.726 | 20.04 | 0.389 | 4.36 | 79 | 2.32 | 5 |
| 10 | 16.71 | 27.971 | 20.23 | 0.394 | 4.41 | 80 | 2.14 | 5 |
| 13 | 16.59 | --- | --- | --- | --- | --- | --- | --- |

CRUISE PSO 01 STATION 011 SHELTON

DATE 08/03/57 HR 759 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 07.3 STG R WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 63.0
 CL 7 AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.54 | 26.661 | 19.04 | 0.357 | 4.00 | 73 | 2.45 | 14 |
| 2 | 17.32 | 27.565 | 19.78 | 0.364 | 4.08 | 74 | 2.43 | 5 |
| 4 | 17.28 | 27.531 | 19.76 | 0.359 | 4.02 | 73 | 2.33 | 5 |
| 7 | 17.14 | 27.686 | 19.91 | 0.358 | 4.01 | 73 | 2.33 | 3 |
| 10 | 17.09 | 27.767 | 19.99 | 0.364 | 4.08 | 74 | 2.31 | 5 |
| 13 | 15.93 | 27.859 | 20.31 | 0.373 | 4.18 | 74 | 2.32 | 5 |

CRUISE PSO 01 STATION 012 CHAPMAN COVE, NW OF

DATE 08/03/57 HR 834 ZN 08 LAT 47-14.0N LONG 123-02.9W AREA OAK
 TIDE HT 08.4 STG R WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 67.0
 CL 7 AMT 8 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.01 | 26.697 | 18.96 | 0.347 | 3.89 | 71 | 2.76 | 5 |
| 1 | 18.07 | 26.731 | 18.97 | 0.344 | 3.85 | 71 | 2.47 | 5 |
| 2 | 17.38 | 26.937 | 19.29 | 0.340 | 3.81 | 69 | 2.66 | 4 |
| 3 | 17.30 | 27.666 | 19.86 | 0.343 | 3.84 | 70 | 2.60 | 6 |

CRUISE PSO 01 STATION 013 OAKLAND BAY, MIDDLE OF

DATE 08/03/57 HR 851 ZN 08 LAT 47-13.3N LONG 123-03.9W AREA OAK
 TIDE HT 09.1 STG R WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 63.0
 CL 7 AMT 8 SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.88 | 26.937 | 19.17 | 0.354 | 3.96 | 73 | 2.60 | 4 |
| 1 | 17.70 | 27.276 | 19.47 | 0.354 | 3.96 | 73 | 2.37 | 5 |
| 2 | 17.32 | 27.562 | 19.78 | 0.354 | 3.96 | 72 | 2.63 | 5 |

CRUISE PSO 01 STATION 014 WINDY PT, NE OF

DATE 08/03/57 HR 1114 ZN 08 LAT 47-10.2N LONG 122-57.2W AREA TOT
 TIDE HT 08.7 STG F WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 70.0
 CL 7 AMT 8 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.66 | 28.702 | 20.80 | 0.796 | 8.92 | 162 | 1.73 | 3 |
| 2 | 15.96 | 28.820 | 21.04 | 0.667 | 7.47 | 134 | 2.05 | 2 |
| 5 | 15.39 | 28.894 | 21.22 | 0.603 | 6.75 | 120 | 1.88 | 2 |
| 10 | 15.28 | 28.702 | 21.10 | 0.588 | 6.59 | 115 | 1.74 | 3 |
| 20 | 15.24 | 28.906 | 21.26 | 0.585 | 6.55 | 116 | 1.80 | 4 |
| 30 | 15.25 | 28.901 | 21.25 | 0.588 | 6.59 | 116 | 1.85 | 3 |

CRUISE PSO 01 STATION 015 NEW KAMILCHE

DATE 08/03/57 HR 1156 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 07.5 STG F WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 69.0
 CL 7 AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|---------|--------|---------|--------|------|-------|---------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.32 | 28.556 | 20.54 | 0.880 | 9.86 | 181 | 3.50 | 2 |
| 2 | 17.03 | 28.657 | 20.68 | 0.681 | 7.63 | 139 | 2.40 | 2 |
| 4 | 16.96 | 28.665 | 20.70 | 0.683 | 7.65 | 139 | 2.20 | 4 |
| 7 | 15.78 | 28.789 | 21.06 | 0.530 | 5.94 | 106 | 2.07 | 2 |
| 10 | 15.79 | 28.796 | 21.06 | 0.523 | 5.86 | 105 | 1.79 | 2 |
| 15 | ---.--- | 28.793 | ---.--- | 0.379 | 4.24 | --- | ---.--- | 0 |

CRUISE PSO 01 STATION 016 BURNS POINT

DATE 08/03/57 HR 1257 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 05.6 STG F WSPD 05 DIR 360 WEA 63 SEA 1 BAR * DRY 65.0
 CL 7 AMT 8 SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|---------|---------|-------|---------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.30 | 28.426 | 20.21 | 0.583 | 6.53 | 122 | 2.93 | 2 |
| 1 | 18.06 | 28.596 | 20.39 | 0.526 | 5.89 | 110 | 2.33 | 2 |
| 2 | 16.96 | 28.665 | 20.70 | 0.573 | 6.42 | 117 | 2.19 | 2 |
| 4 | 16.82 | 28.677 | 20.74 | 0.571 | 6.40 | 116 | 2.07 | 4 |
| 6 | 16.79 | 28.711 | 20.77 | ---.--- | ---.--- | --- | ---.--- | 0 |

CRUISE PSO 01 STATION 017 SKOOKUM INLET, ENTRANCE

DATE 08/03/57 HR 1341 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 04.0 STG F WSPD 00 DIR WEA 63 SEA 1 BAR * DRY *
 CL 7 AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.71 | 28.636 | 20.74 | 0.584 | 6.54 | 119 | 2.34 | 3 |
| 1 | 16.70 | 28.648 | 20.75 | 0.597 | 6.69 | 121 | 2.29 | 2 |
| 2 | 16.68 | 28.659 | 20.76 | 0.593 | 6.64 | 121 | 2.35 | 3 |
| 4 | 16.71 | 28.650 | 20.75 | 0.594 | 6.65 | 121 | 2.23 | 2 |

CRUISE PSO 01 STATION 018 HUNTER POINT

DATE 08/03/57 HR 1455 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 02.1 STG F WSPD 05 DIR 070 WEA 02 SEA 1 BAR * DRY 67.0
 CL 7 AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.74 | 28.957 | 21.40 | 0.545 | 6.10 | 107 | 2.14 | 3 |
| 5 | 14.66 | 28.970 | 21.43 | 0.541 | 6.06 | 106 | 1.94 | 4 |
| 10 | 14.36 | 29.035 | 21.54 | 0.532 | 5.96 | 104 | 1.75 | 3 |
| 15 | 14.18 | 29.089 | 21.62 | 0.525 | 5.88 | 102 | -.-- | 4 |
| 20 | 14.14 | 29.087 | 21.63 | 0.523 | 5.86 | 101 | 1.80 | 2 |

CRUISE PSO 01 STATION 019 COOPER POINT, SW OF

DATE 08/03/57 HR 1528 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 01.8 STG L WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 67.0
 CL 7 AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.79 | 28.841 | 21.09 | 0.698 | 7.82 | 140 | -.-- | 2 |
| 2 | 14.60 | 29.011 | 21.47 | 0.637 | 7.13 | 124 | -.-- | 2 |
| 4 | 14.36 | 29.056 | 21.56 | 0.592 | 6.63 | 115 | -.-- | 2 |
| 7 | 14.14 | 29.094 | 21.63 | 0.547 | 6.13 | 106 | -.-- | 2 |
| 10 | 14.02 | 29.114 | 21.67 | 0.524 | 5.87 | 101 | -.-- | 3 |
| 15 | 14.01 | 29.121 | 21.68 | 0.523 | 5.86 | 101 | -.-- | 3 |
| 25 | -.-- | 29.127 | -.-- | 0.521 | 5.84 | --- | -.-- | 3 |

CRUISE PSO 01 STATION 020 ELD INLET, HEAD OF

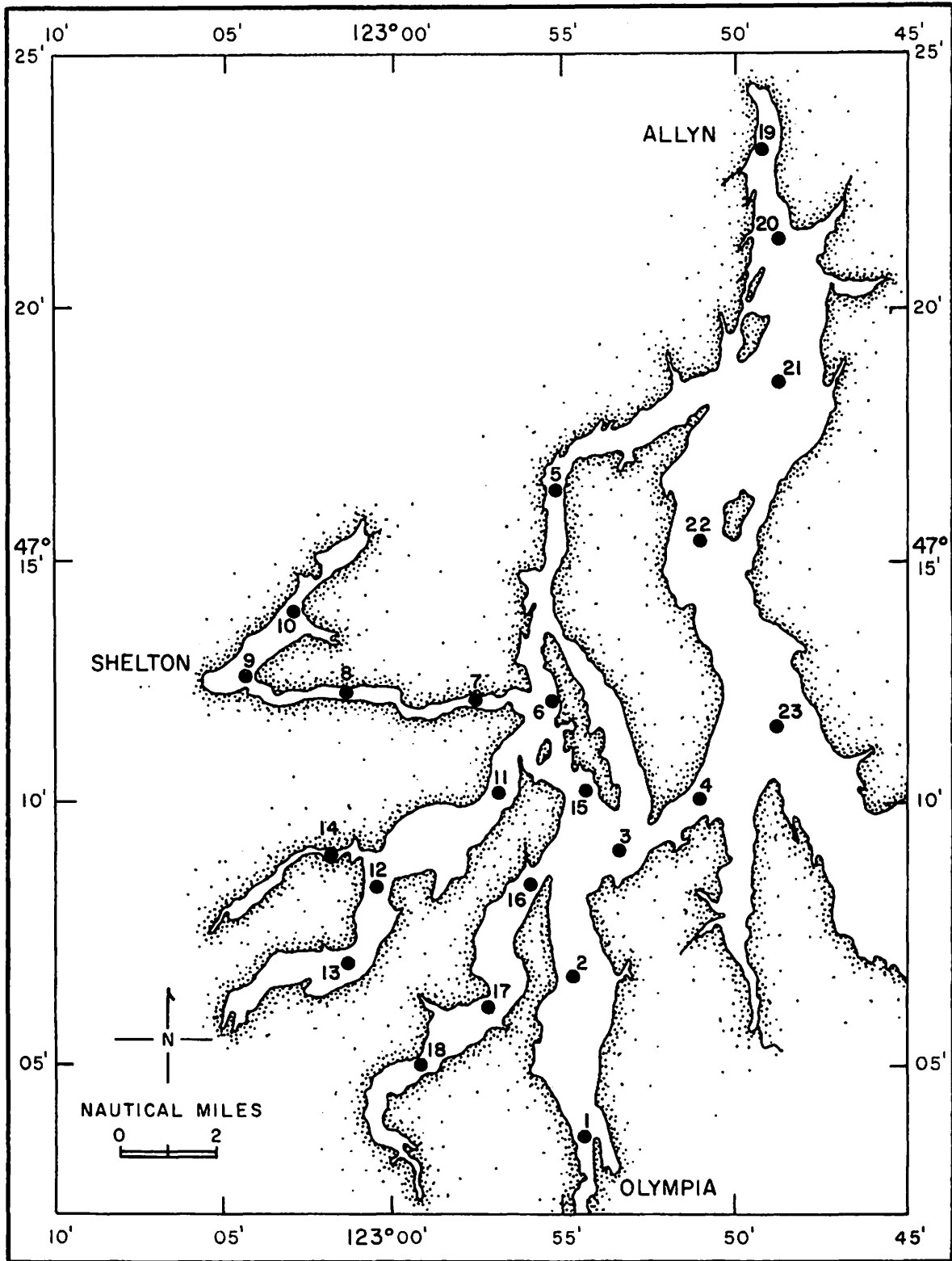
DATE 08/03/57 HR 1654 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 03.3 STG R WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 73.0
 CL 7 AMT 8 SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.80 | 28.513 | 20.62 | 0.814 | 9.12 | 165 | -.-- | 2 |
| 1 | 16.00 | 28.724 | 20.96 | 0.698 | 7.82 | 140 | -.-- | 0 |
| 2 | 15.54 | 28.847 | 21.15 | 0.629 | 7.04 | 125 | -.-- | 2 |
| 4 | 14.78 | 28.939 | 21.38 | 0.478 | 5.35 | 94 | -.-- | 4 |
| 7 | 14.74 | 28.970 | 21.41 | 0.473 | 5.30 | 93 | -.-- | 3 |
| 10 | 14.74 | 28.942 | 21.39 | 0.466 | 5.22 | 91 | -.-- | 4 |

CRUISE PSO 01 STATION 021 FLAPJACK POINT

DATE 08/03/57 HR 1725 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 04.8 STG R WSPD 00 DIR WEA 63 SEA 0 BAR * DRY 68.0
 CL 7 AMT 8 SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.02 | 28.686 | 20.70 | 1.052 | 11.78 | 215 | -.-- | 2 |
| 2 | 15.62 | 28.908 | 21.18 | 0.828 | 9.27 | 165 | -.-- | 2 |
| 4 | 14.53 | 29.000 | 21.48 | 0.520 | 5.82 | 101 | -.-- | 4 |
| 7 | 14.36 | 29.000 | 21.51 | 0.480 | 5.38 | 93 | -.-- | 3 |
| 10 | 14.15 | 29.016 | 21.57 | 0.474 | 5.31 | 92 | -.-- | 4 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-02 19-20 AUG. 1957

CRUISE PSO 02 STATION 001 BUDD INLET BUOY NO 12

DATE 08/19/57 HR 1010 ZN 08 LAT 47 03.5N LONG 122 54.4W AREA BUD
 TIDE HT 07.8 STG R WSPD 07 DIR 340 WEA 02 SEA 1 BAR * DRY 74.0
 CL * AMT 8 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|------|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 15.49 | 26.542 | 19.40 | 0.341 | 3.82 | 67 | --- |
| 2 | 14.68 | 28.952 | 21.41 | 0.321 | 3.60 | 63 | 3.09 |
| 4 | 14.54 | 29.027 | 21.50 | 0.296 | 3.32 | 58 | 2.94 |
| 7 | 14.43 | 29.056 | 21.54 | 0.279 | 3.12 | 54 | 2.84 |
| 10 | 14.64 | 29.062 | 21.51 | 0.246 | 2.76 | 48 | 2.59 |

CRUISE PSO 02 STATION 002 GULL HARBOR

DATE 08/19/57 HR 1053 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 08.7 STG R WSPD 09 DIR 200 WEA 02 SEA 1 BAR * DRY 72.0
 CL * AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|------|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 17.45 | 27.024 | 19.34 | 0.796 | 8.92 | 162 | 2.20 |
| 2 | 16.90 | 28.612 | 20.67 | 0.839 | 9.40 | 171 | --- |
| 5 | 15.07 | 28.912 | 21.30 | 0.715 | 8.01 | 141 | 2.29 |
| 10 | 14.00 | --- | --- | 0.454 | 5.08 | | 2.54 |
| 15 | 13.56 | 29.327 | 21.93 | 0.468 | 5.24 | 90 | 2.18 |

CRUISE PSO 02 STATION 003 DOVER POINT

DATE 08/19/57 HR 1145 ZN 08 LAT 47-09.0N LONG 122-53.5W AREA DNA
 TIDE HT 10.1 STG R WSPD 08 DIR 200 WEA 02 SEA 1 BAR * DRY 77.0
 CL * AMT 8 SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|------|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 14.48 | 29.215 | 21.66 | 0.569 | 6.37 | 111 | 2.09 |
| 5 | 13.84 | 29.325 | 21.87 | 0.514 | 5.76 | 99 | 2.19 |
| 10 | 13.82 | 29.311 | 21.86 | 0.512 | 5.73 | 99 | 2.21 |
| 20 | 13.54 | 29.365 | 21.96 | 0.490 | 5.49 | 94 | 2.17 |

CRUISE PSO 02 STATION 004 DICKENSON POINT

DATE 08/19/57 HR 1219 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 TIDE HT 10.6 STG H WSPD 07 DIR 225 WEA 01 SEA 1 BAR * DRY 68.0
 CL * AMT 5 SCI 09 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|------|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 14.32 | 29.305 | 21.76 | 0.550 | 6.16 | 107 | 1.98 |
| 5 | 13.69 | 29.345 | 21.91 | 0.510 | 5.71 | 98 | 2.15 |
| 10 | 13.37 | 29.374 | 22.00 | 0.485 | 5.43 | 93 | 2.08 |
| 20 | 12.92 | 29.455 | 22.15 | 0.440 | 4.93 | 83 | 2.33 |
| 30 | 12.80 | 29.484 | 22.19 | 0.448 | 5.02 | 85 | 2.36 |

CRUISE PSO 02 STATION 005 GRANT

DATE 08/19/57 HR 1351 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 10.8 STG H WSPD 09 DIR 180 WEA 02 SEA 1 BAR * DRY 75.0
 CL * AMT 5 SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.12 | 29.098 | 21.43 | 0.548 | 6.14 | 108 | 2.21 | 2 |
| 5 | 14.54 | 29.128 | 21.58 | 0.522 | 5.85 | 102 | 2.42 | 2 |
| 10 | 14.40 | 29.123 | 21.60 | 0.499 | 5.59 | 97 | 2.38 | 2 |
| 15 | 13.79 | 29.204 | 21.79 | 0.450 | 5.04 | 87 | 2.39 | 2 |

CRUISE PSO 02 STATION 006 ARCADIA

DATE 08/19/57 HR 1431 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 10.4 STG F WSPD 09 DIR 250 WEA 02 SEA 1 BAR * DRY 76.0
 CL * AMT 5 SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.98 | 28.847 | 21.06 | 0.550 | 6.16 | 110 | 2.11 | 2 |
| 2 | 15.76 | 28.863 | 21.12 | 0.549 | 6.15 | 110 | 1.72 | 3 |
| 5 | 15.57 | 28.890 | 21.18 | 0.532 | 5.96 | 106 | 2.14 | 2 |
| 10 | 15.36 | 28.962 | 21.28 | 0.530 | 5.94 | 105 | 2.19 | 3 |

CRUISE PSO 02 STATION 007 CANNERY POINT

DATE 08/19/57 HR 1513 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 09.9 STG F WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 76.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.32 | 28.720 | 20.89 | 0.531 | 5.95 | 107 | 2.20 | 4 |
| 2 | 16.26 | 28.722 | 20.90 | 0.534 | 5.98 | 108 | 2.23 | 0 |
| 5 | 16.22 | 28.742 | 20.92 | 0.532 | 5.96 | 107 | 2.23 | 2 |

CRUISE PSO 02 STATION 008 CHURCH POINT, W OF

DATE 08/19/57 HR 1557 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 09.3 STG F WSPD 05 DIR 250 WEA 02 SEA 1 BAR * DRY 76.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.50 | 28.051 | 20.11 | 0.434 | 4.86 | 89 | 2.27 | 4 |
| 2 | 16.94 | 28.253 | 20.39 | 0.477 | 5.34 | 97 | 2.18 | 3 |
| 4 | 16.57 | 28.535 | 20.69 | 0.505 | 5.66 | 102 | 2.34 | 3 |
| 7 | 16.56 | 28.553 | 20.71 | 0.506 | 5.67 | 102 | 2.25 | 3 |
| 10 | 16.51 | 28.569 | 20.73 | 0.509 | 5.70 | 103 | 2.19 | 3 |
| 15 | 16.46 | 28.591 | 20.76 | 0.503 | 5.63 | 102 | 2.33 | 4 |

CRUISE PSO 02 STATION 009 SHELTON

DATE 08/19/57 HR 1650 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 08.8 STG F WSPD 09 DIR 250 WEA 03 SEA 1 BAR * DRY 75.0
 CL * AMT 2 SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.43 | 26.869 | 18.99 | 0.352 | 3.94 | 73 | 2.31 | 4 |
| 2 | 17.83 | 27.616 | 19.70 | 0.359 | 4.02 | 74 | 2.18 | 5 |
| 4 | 17.76 | 27.672 | 19.76 | 0.364 | 4.08 | 75 | 2.48 | 4 |
| 7 | 17.50 | 27.733 | 19.87 | 0.390 | 4.37 | 80 | 2.43 | 4 |
| 10 | 17.26 | 27.948 | 20.09 | 0.410 | 4.59 | 84 | 2.34 | 3 |

CRUISE PSO 02 STATION 010 CHAPMAN COVE, NW OF

DATE 08/19/57 HR 1720 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 08.2 STG F WSPD 05 DIR 200 WEA 02 SEA 1 BAR * DRY 76.0
 CL * AMT 8 SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.82 | 26.569 | 18.67 | 0.374 | 4.19 | 78 | 2.58 | 4 |
| 1 | 18.94 | 27.029 | 18.99 | 0.389 | 4.36 | 82 | 2.49 | 5 |
| 2 | 18.84 | 27.163 | 19.12 | 0.378 | 4.23 | 79 | 2.56 | 4 |

CRUISE PSO 02 STATION 011 WINDY POINT, NE OF

DATE 08/20/57 HR 1006 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 05.6 STG R WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 71.0
 CL * AMT 8 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.57 | 28.878 | 20.95 | 0.670 | 7.50 | 136 | 1.76 | 4 |
| 2 | 16.25 | 28.919 | 21.05 | 0.649 | 7.27 | 131 | 1.72 | 4 |
| 5 | 16.04 | 28.944 | 21.12 | 0.631 | 7.07 | 127 | 1.74 | 3 |
| 10 | 15.89 | 28.966 | 21.17 | 0.622 | 6.97 | 125 | 1.96 | 2 |
| 20 | 15.78 | 28.975 | 21.20 | 0.609 | 6.82 | 122 | 1.74 | 3 |
| 30 | 15.63 | 28.989 | 21.24 | 0.602 | 6.74 | 120 | 2.01 | 4 |

CRUISE PSO 02 STATION 012 NEW KAMILCHE

DATE 08/20/57 HR 1051 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 06.8 STG R WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 76.0
 CL * AMT 8 SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.95 | 28.865 | 20.86 | 0.679 | 7.60 | 139 | 1.91 | 3 |
| 2 | 16.78 | 28.858 | 20.89 | 0.654 | 7.32 | 133 | 2.27 | 3 |
| 4 | 16.66 | 28.865 | 20.92 | 0.605 | 6.78 | 123 | 2.19 | 2 |
| 7 | 16.32 | 28.876 | 21.00 | 0.553 | 6.19 | 112 | 2.22 | 3 |
| 10 | 16.19 | 28.899 | 21.05 | 0.521 | 5.84 | 105 | 2.46 | 2 |
| 15 | 16.02 | 28.923 | 21.11 | 0.503 | 5.63 | 101 | 2.17 | 1 |

CRUISE PSO 02 STATION 013 BURNS POINT

DATE 08/20/57 HR 1124 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 08.2 STG R WSPD 05 DIR 250 WEA 02 SEA 1 BAR * DRY 74.0
 CL * AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.21 | 28.713 | 20.45 | 0.622 | 6.97 | 130 | 2.04 | 3 |
| 1 | 16.98 | 28.739 | 20.75 | 0.622 | 6.97 | 127 | --- | 0 |
| 2 | 16.72 | 28.832 | 20.88 | 0.520 | 5.82 | 106 | 2.57 | 2 |
| 4 | 16.69 | 28.834 | 20.89 | 0.487 | 5.45 | 99 | 2.33 | 3 |

CRUISE PSO 02 STATION 014 SKOOKUM INLET, ENTRANCE

DATE 08/20/57 HR 1209 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 10.2 STG R WSPD 05 DIR 250 WEA 02 SEA 1 BAR * DRY 76.0
 CL * AMT 8 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.68 | 28.868 | 20.92 | 0.577 | 6.46 | 117 | 2.26 | 0 |
| 1 | 16.61 | 28.856 | 20.93 | 0.573 | 6.42 | 116 | 2.19 | 1 |
| 2 | 16.58 | 28.865 | 20.94 | 0.568 | 6.36 | 115 | 2.19 | 3 |

CRUISE PSO 02 STATION 015 HUNTER POINT

DATE 08/20/57 HR 1321 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 11.8 STG R WSPD 03 DIR 180 WEA 01 SEA 1 BAR * DRY 83.0
 CL * AMT 5 SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.42 | 29.264 | 21.71 | 0.544 | 6.09 | 106 | 2.14 | 4 |
| 2 | 14.06 | 29.287 | 21.80 | 0.531 | 5.95 | 103 | 2.10 | 3 |
| 5 | 13.99 | 29.307 | 21.82 | 0.494 | 5.53 | 96 | 2.18 | 4 |
| 10 | 13.98 | 29.313 | 21.83 | --- | --- | --- | 2.16 | 4 |
| 15 | 13.95 | 29.316 | 21.84 | 0.500 | 5.60 | 97 | 2.22 | 3 |

CRUISE PSO 02 STATION 016 COOPER POINT, SW OF

DATE 08/20/57 HR 1354 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 12.0 STG H WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 79.0
 CL * AMT 4 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.10 | 29.128 | 21.46 | 0.605 | 6.78 | 120 | 2.10 | 2 |
| 2 | 14.86 | 29.150 | 21.53 | 0.588 | 6.59 | 116 | 2.00 | 3 |
| 5 | 14.58 | 29.188 | 21.61 | 0.565 | 6.33 | 111 | 2.18 | 2 |
| 10 | 14.52 | 29.201 | 21.64 | 0.560 | 6.27 | 109 | 2.21 | 2 |
| 15 | 14.13 | 29.258 | 21.76 | 0.520 | 5.82 | 101 | 2.09 | 3 |
| 20 | 13.82 | 29.320 | 21.87 | 0.511 | 5.72 | 98 | 2.05 | 3 |

CRUISE PSO 02 STATION 017 FLAPJACK POINT

DATE 08/20/57 HR 1436 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 12.0 STG H WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 80.0
 CL * AMT 4 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.46 | 28.948 | 21.03 | 0.709 | 7.94 | 144 | 1.85 | 3 |
| 2 | 15.56 | 29.065 | 21.31 | 0.632 | 7.08 | 126 | 2.19 | 2 |
| 4 | 14.76 | 29.119 | 21.52 | 0.437 | 4.89 | 86 | 2.23 | 3 |
| 7 | 14.45 | 29.165 | 21.62 | 0.384 | 4.30 | 75 | 2.31 | 2 |
| 12 | 14.38 | 29.181 | 21.65 | 0.432 | 4.84 | 84 | 2.24 | 3 |

CRUISE PSO 02 STATION 018 ELD INLET, HEAD OF

DATE 08/20/57 HR 1513 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.8 STG F WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 80.0
 CL * AMT 4 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.62 | 28.755 | 20.38 | 0.444 | 4.97 | 94 | 2.15 | 2 |
| 1 | 16.06 | 28.850 | 21.04 | 0.431 | 4.83 | 87 | 2.19 | 3 |
| 2 | 15.02 | 28.921 | 21.32 | 0.400 | 4.48 | 79 | 2.45 | 1 |
| 4 | 14.76 | 29.100 | 21.51 | 0.384 | 4.30 | 75 | 2.48 | 2 |
| 7 | 14.64 | 29.107 | 21.54 | 0.345 | 3.86 | 68 | 2.74 | 2 |
| 12 | 14.53 | 29.119 | 21.57 | 0.334 | 3.74 | 65 | 2.81 | 3 |

CRUISE PSO 02 STATION 019 ALLYN

DATE 08/21/57 HR 1000 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 03.6 STG R WSPD 10 DIR 360 WEA 01 SEA 2 BAR * DRY 79.0
 CL AMT SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.68 | 27.874 | 19.70 | 0.624 | 6.99 | 131 | 1.96 | 2 |
| 1 | 18.11 | 28.137 | 20.03 | 0.624 | 6.99 | 130 | 1.95 | 2 |
| 2 | 17.56 | 28.417 | 20.37 | 0.670 | 7.50 | 138 | 1.97 | 2 |
| 3 | 13.82 | 28.710 | 21.40 | 0.577 | 6.46 | 111 | 2.38 | 0 |

CRUISE PSO 02 STATION 020 ROCKY POINT

DATE 08/21/57 HR 1040 ZN 08 LAT 47-21.3N LONG 122-48.8W AREA CSE
 TIDE HT 05.0 STG R WSPD 04 DIR 180 WEA 02 SEA 1 BAR * DRY 77.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.12 | 28.036 | 19.71 | 0.616 | 6.90 | 131 | 1.65 | 1 |
| 2 | 16.83 | 28.789 | 20.82 | 0.762 | 8.53 | 156 | 1.98 | 1 |
| 5 | 14.67 | 28.984 | 21.44 | 0.603 | 6.75 | 118 | 2.83 | 0 |
| 10 | 13.04 | 29.172 | 21.91 | --- | --- | --- | 3.05 | 2 |
| 15 | 12.70 | 29.242 | 22.02 | --- | --- | --- | 3.74 | 2 |

CRUISE PSO 02 STATION 021 DUTCHERS COVE

DATE 08/21/57 HR 1119 ZN 08 LAT 47-18.6N LONG 122-48.9W AREA CSE
 TIDE HT 06.4 STG R WSPD 07 DIR 180 WEA 02 SEA 1 BAR * DRY 74.0
 CL AMT SCI 10 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.08 | 28.598 | 20.15 | 0.645 | 7.22 | 137 | 1.47 | 0 |
| 5 | 14.26 | 29.188 | 21.68 | 0.531 | 5.95 | 103 | 2.11 | 0 |
| 10 | 13.82 | 29.244 | 21.81 | 0.482 | 5.40 | 93 | 2.10 | 0 |
| 20 | 12.64 | 29.446 | 22.19 | 0.378 | 4.23 | 71 | 2.26 | 2 |
| 25 | 12.64 | 29.452 | 22.20 | 0.380 | 4.26 | 71 | 2.41 | 3 |

CRUISE PSO 02 STATION 022 HERRON ISLAND

DATE 08/21/57 HR 1222 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 TIDE HT 08.1 STG R WSPD 08 DIR 180 WEA 02 SEA 1 BAR * DRY 80.0
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.76 | 29.081 | 21.06 | 0.828 | 9.27 | 169 | 1.46 | 1 |
| 5 | 14.31 | 29.249 | 21.72 | 0.594 | 6.65 | 116 | 1.82 | 2 |
| 10 | 13.83 | 29.311 | 21.86 | 0.533 | 5.97 | 103 | 1.93 | 2 |
| 20 | 13.52 | 29.313 | 21.92 | 0.447 | 5.01 | 86 | 1.91 | 1 |
| 30 | 12.94 | 29.435 | 22.13 | 0.428 | 4.79 | 81 | 2.19 | 3 |
| 50 | 12.54 | 29.473 | 22.23 | 0.414 | 4.64 | 78 | 1.79 | 2 |

CRUISE PSO 02 STATION 023 JOHNSON POINT, N OF

DATE 08/21/57 HR 1317 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 10.0 STG R WSPD 05 DIR 160 WEA 02 SEA 1 BAR * DRY 78.0
 CL AMT SCI 14 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.80 | 29.253 | 21.41 | 0.553 | 6.19 | 111 | 1.74 | 1 |
| 5 | 14.28 | 29.278 | 21.74 | 0.541 | 6.06 | 105 | 2.01 | 3 |
| 10 | 13.52 | 29.374 | 21.97 | --- | --- | --- | 2.15 | 3 |
| 20 | 12.91 | 29.488 | 22.17 | 0.403 | 4.51 | 76 | 2.11 | 3 |
| 30 | 12.66 | 29.538 | 22.26 | 0.404 | 4.52 | 76 | 2.08 | 4 |
| 50 | 12.46 | 29.580 | 22.33 | 0.400 | 4.48 | 75 | 2.17 | 3 |
| 70 | 12.50 | 29.583 | 22.32 | 0.368 | 4.12 | 69 | --- | 0 |

CRUISE PSO 02 STATION 024 HENDERSON INLET, ENTRANCE

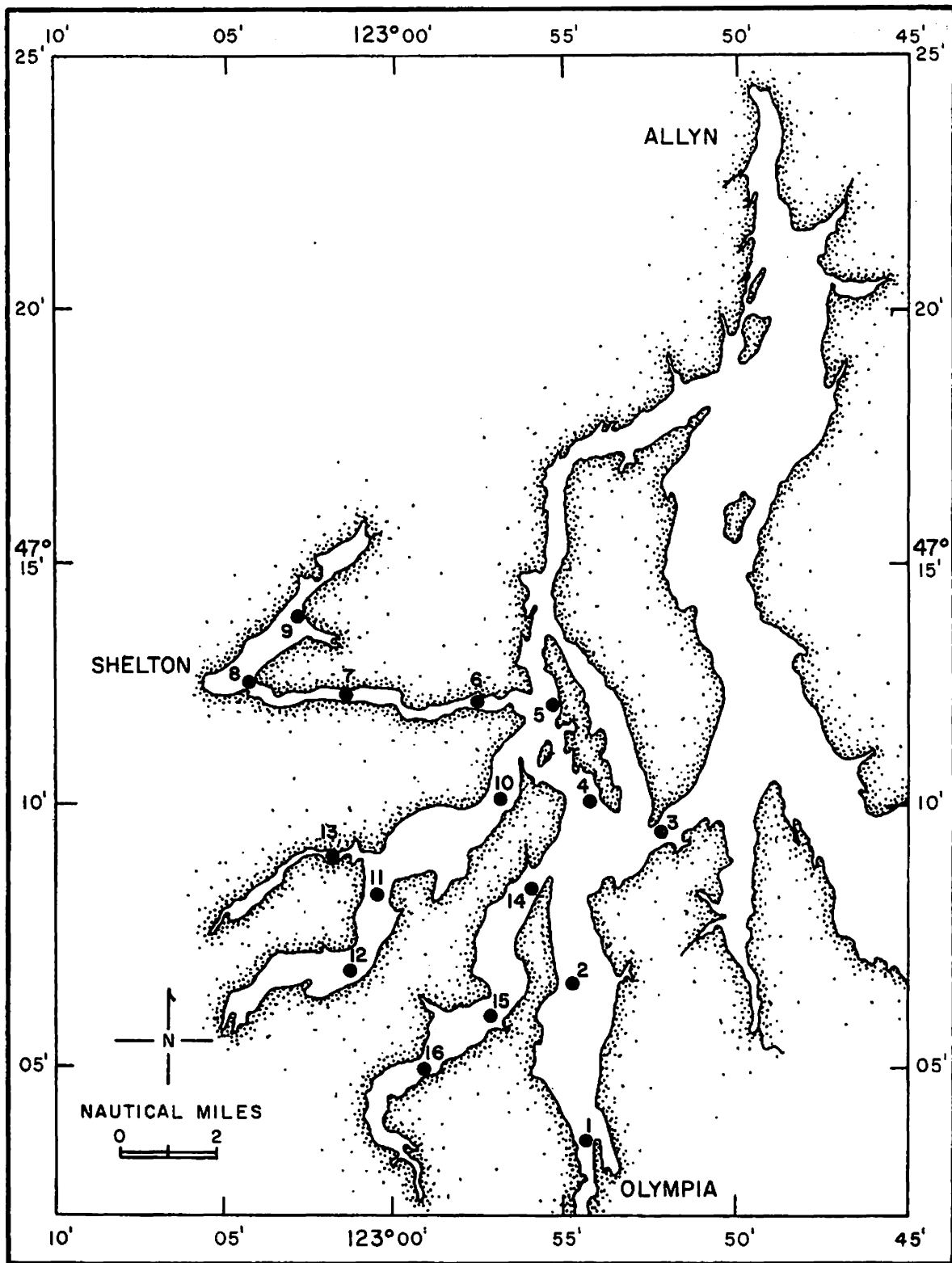
DATE 08/21/57 HR 1417 ZN 08 LAT 47-10.0N LONG 122-49.9W AREA HDR
 TIDE HT 11.3 STG R WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 78.0
 CL AMT SCI 11 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.78 | 29.237 | 21.40 | 0.551 | 6.17 | 110 | 1.93 | 3 |
| 2 | 13.34 | 29.412 | 22.03 | 0.468 | 5.24 | 89 | 2.09 | 3 |
| 4 | 13.05 | 29.471 | 22.13 | 0.453 | 5.07 | 86 | 2.19 | 4 |
| 7 | 13.78 | 29.495 | 22.01 | 0.434 | 4.86 | 84 | 2.04 | 4 |
| 12 | 12.93 | 29.529 | 22.20 | 0.481 | 5.39 | 91 | 1.57 | 4 |

CRUISE PSO 02 STATION 025 WOODWARD CREEK

DATE 08/21/57 HR 1452 ZN 08 LAT 47-08.0N LONG 122-50.0W AREA HDR
 TIDE HT 11.6 STG H WSPD 00 DIR WEA 02 SEA 0 BAR * DRY 90.0
 CL AMT SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|-----|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 17.42 | 28.379 | 20.38 | 0.513 | 5.75 106 | 2.18 | 0 |
| 2 | 15.04 | 29.065 | 21.42 | 0.747 | 8.37 147 | 2.17 | 1 |
| 4 | 14.02 | 29.284 | 21.80 | 0.413 | 4.63 80 | 1.84 | 4 |
| 7 | 13.98 | 29.294 | 21.82 | 0.433 | 4.85 84 | 1.99 | 4 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-03 4-5 SEPT. 1957

CRUISE PSO 03 STATION 001 BUDD INLET BUOY NO 12

DATE 09/04/57 HR 950 ZN 08 LAT 47-03.5N LONG 122-54.4W AREA BUD
 TIDE HT 02.6 STG R WSPD 08 DIR 360 WEA 45 SEA 1 BAR 07 DRY 67.0
 CL * AMT 9 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.53 | 26.262 | 18.96 | 0.283 | 3.17 | 56 | 3.58 | 3 |
| 2 | 14.55 | 29.072 | 21.53 | --- | --- | --- | 2.93 | 3 |
| 4 | 14.50 | 29.233 | 21.67 | 0.183 | 2.05 | 36 | 3.15 | 4 |
| 7 | 14.20 | 29.289 | 21.77 | 0.175 | 1.96 | 34 | 3.11 | 2 |

CRUISE PSO 03 STATION 002 GULL HARBOR

DATE 09/04/57 HR 1043 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 04.8 STG R WSPD 00 DIR WEA 44 SEA 0 BAR 07 DRY 76.0
 CL AMT SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | --- | 28.287 | --- | 0.702 | 7.86 | --- | 1.97 | 3 |
| 2 | 16.18 | 29.087 | 21.20 | 0.690 | 7.73 | 139 | 2.63 | 4 |
| 5 | 14.95 | 29.329 | 21.65 | 0.564 | 6.32 | 111 | 2.06 | 3 |
| 10 | 13.97 | 29.495 | 21.97 | 0.439 | 4.92 | 85 | 2.46 | 4 |
| 15 | --- | 29.520 | --- | 0.442 | 4.95 | --- | 2.37 | 4 |

CRUISE PSO 03 STATION 003 BRISCO POINT

DATE 09/04/57 HR 1157 ZN 08 LAT 47-09.4N LONG 122-53.0W AREA DNA
 TIDE HT 07.6 STG R WSPD 06 DIR 025 WEA 44 SEA 1 BAR 06 DRY 80.0
 CL AMT SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.66 | 29.461 | 21.81 | 0.561 | 6.28 | 110 | 2.01 | 3 |
| 5 | 14.60 | 29.466 | 21.82 | 0.565 | 6.33 | 111 | 2.07 | 3 |
| 10 | 14.59 | 29.470 | 21.83 | 0.566 | 6.34 | 111 | 2.00 | 4 |
| 20 | 14.43 | 29.473 | 21.86 | 0.548 | 6.14 | 107 | 2.04 | 3 |
| 30 | 13.79 | 29.571 | 22.07 | 0.507 | 5.68 | 98 | 2.57 | 3 |

CRUISE PSO 03 STATION 004 HUNTER POINT

DATE 09/04/57 HR 1226 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 08.9 STG R WSPD 05 DIR 160 WEA 01 SEA 1 BAR 06 DRY 78.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.09 | 29.249 | 21.34 | 0.697 | 7.81 | 141 | 1.70 | 3 |
| 3 | 14.80 | 29.412 | 21.74 | 0.546 | 6.12 | 107 | 2.06 | 3 |
| 8 | 14.37 | 29.473 | 21.88 | 0.494 | 5.53 | 96 | 1.97 | 3 |
| 13 | 14.44 | 29.471 | 21.86 | 0.491 | 5.50 | 96 | --- | 3 |

CRUISE PSO 03 STATION 005 ARCADIA

DATE 09/04/57 HR 1312 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 11.5 STG R WSPD 06 DIR 200 WEA 02 SEA 1 BAR 06 DRY 80.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.96 | 29.110 | 21.26 | 0.576 | 6.45 | 116 | 2.11 | 3 |
| 2 | 15.92 | 29.123 | 21.28 | 0.578 | 6.47 | 116 | 2.02 | 3 |
| 5 | 15.90 | 29.118 | 21.28 | 0.569 | 6.37 | 114 | 2.16 | 4 |
| 10 | 15.80 | 29.127 | 21.31 | 0.551 | 6.17 | 110 | 2.02 | 3 |

CRUISE PSO 03 STATION 006 CANNERY POINT

DATE 09/04/57 HR 1334 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 12.0 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 83.0
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.01 | 29.116 | 21.26 | 0.574 | 6.43 | 115 | 2.13 | 2 |
| 2 | 15.98 | 29.130 | 21.27 | 0.575 | 6.44 | 116 | 2.06 | 1 |
| 5 | 15.98 | 29.125 | 21.27 | 0.574 | 6.43 | 115 | 2.07 | 1 |

CRUISE PSO 03 STATION 007 CHURCH POINT, W OF

DATE 09/04/57 HR 1402 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 12.5 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 84.0
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.53 | 28.905 | 20.98 | 0.556 | 6.23 | 113 | 2.18 | 1 |
| 2 | 16.39 | 28.968 | 21.06 | 0.565 | 6.33 | 114 | 2.10 | 1 |
| 4 | 16.40 | 28.964 | 21.05 | 0.565 | 6.33 | 114 | 2.02 | 2 |
| 7 | 16.23 | 29.029 | 21.14 | 0.571 | 6.40 | 115 | 2.02 | 1 |
| 10 | --- | 29.035 | --- | 0.573 | 6.42 | --- | 2.05 | 2 |
| 15 | 16.20 | 29.051 | 21.17 | 0.569 | 6.37 | 115 | 1.98 | 2 |

CRUISE PSO 03 STATION 008 SHELTON

DATE 09/04/57 HR 1443 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 13.0 STG R WSPD 05 DIR 135 WEA 02 SEA 1 BAR 06 DRY 84.0
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.05 | 27.666 | 19.69 | 0.422 | 4.73 | 87 | 2.46 | 2 |
| 2 | 17.29 | 28.444 | 20.46 | 0.482 | 5.40 | 99 | 2.37 | 2 |
| 4 | 17.21 | 28.536 | 20.55 | 0.500 | 5.60 | 102 | 1.72 | 2 |
| 7 | 16.97 | 28.6=4 | 20.66 | 0.509 | 5.70 | 104 | 2.18 | 2 |

CRUISE PSO 03 STATION 009 CHAPMAN COVE, NW OF

DATE 09/04/57 HR 1519 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 13.1 STG H WSPD 05 DIR 180 WEA 02 SEA 1 BAR 06 DRY 86.0
 CL AMT SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.48 | 27.446 | 19.42 | 0.428 | 4.79 | 89 | 2.45 | 2 |
| 1 | 18.28 | 27.724 | 19.68 | 0.417 | 4.67 | 87 | 2.54 | 2 |
| 2 | 18.03 | 27.796 | 19.79 | 0.420 | 4.70 | 87 | 2.28 | 2 |
| 5 | 17.58 | 28.125 | 20.15 | 0.418 | 4.68 | 86 | 2.48 | 3 |

CRUISE PSO 03 STATION 010 WINDY PT, NE OF

DATE 09/05/57 HR 948 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 01.2 STG R WSPD 03 DIR 360 WEA 02 SEA 1 BAR 08 DRY 70.0
 CL * AMT 8 SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.30 | 29.051 | 20.92 | 0.658 | 7.37 | 136 | 1.97 | 2 |
| 2 | 16.91 | 29.101 | 21.04 | 0.664 | 7.44 | 136 | 2.14 | 3 |
| 5 | 15.96 | 29.204 | 21.33 | 0.586 | 6.56 | 118 | 2.10 | 3 |
| 10 | 15.75 | 29.228 | 21.40 | 0.567 | 6.35 | 114 | 1.90 | 3 |
| 20 | --.-- | 29.242 | --.-- | 0.569 | 6.37 | --- | --.-- | 2 |
| 30 | 15.50 | 29.278 | 21.49 | 0.541 | 6.06 | 108 | 1.78 | 3 |

CRUISE PSO 03 STATION 011 NEW KAMILCHE

DATE 09/05/57 HR 1031 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 02.3 STG R WSPD 04 DIR 360 WEA 02 SEA 1 BAR 09 DRY 70.0
 CL * AMT 8 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.55 | 28.989 | 20.81 | 0.631 | 7.07 | 131 | 2.19 | 2 |
| 2 | 17.11 | 29.051 | 20.96 | 0.587 | 6.57 | 121 | 2.45 | 2 |
| 4 | 16.55 | 29.101 | 21.13 | 0.535 | 5.99 | 109 | 2.41 | 2 |
| 7 | 16.47 | 29.130 | 21.17 | 0.511 | 5.72 | 104 | 2.39 | 2 |
| 10 | --.-- | 29.132 | --.-- | 0.520 | 5.82 | --- | 2.32 | 2 |
| 15 | 16.25 | 29.166 | 21.24 | 0.511 | 5.72 | 103 | 2.36 | 3 |

CRUISE PSO 03 STATION 012 BURNS POINT

DATE 09/05/57 HR 1101 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 03.3 STG R WSPD 06 DIR 025 WEA 02 SEA 1 BAR 09 DRY 71.0
 CL * AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.92 | 28.946 | 20.69 | 0.456 | 5.11 | 95 | 2.64 | 3 |
| 1 | 17.55 | 29.006 | 20.83 | 0.497 | 5.57 | 103 | 2.52 | 3 |
| 2 | 17.42 | 29.054 | 20.89 | 0.501 | 5.61 | 104 | 2.41 | 3 |
| 3 | 17.57 | 29.040 | 21.24 | --.-- | --.-- | --- | --.-- | 3 |

CRUISE PSO 03 STATION 013 SKOOKUM INLET, ENTRANCE

DATE 09/05/57 HR 1141 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 04.7 STG R WSPD 04 DIR 025 WEA 02 SEA 1 BAR 09 DRY 73.0
 CL * AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.18 | 28.984 | 20.89 | 0.555 | 6.22 | 114 | 2.40 | 3 |
| 1 | 17.17 | 28.977 | 20.89 | 0.551 | 6.17 | 113 | 2.51 | 3 |
| 2 | 17.17 | 28.962 | 20.88 | 0.548 | 6.14 | 113 | 2.50 | 2 |

CRUISE PSO 03 STATION 014 COOPER POINT, SW OF

DATE 09/05/57 HR 1330 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 08.5 STG R WSPD 02 DIR 025 WEA 02 SEA 1 BAR 09 DRY 77.0
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.10 | 29.423 | 21.69 | 0.602 | 6.74 | 119 | 2.06 | 3 |
| 2 | 14.96 | 29.424 | 21.72 | 0.589 | 6.60 | 116 | 2.02 | 3 |
| 5 | 14.63 | 29.450 | 21.80 | 0.566 | 6.34 | 111 | 2.14 | 3 |
| 10 | 14.51 | 29.471 | 21.85 | 0.550 | 6.16 | 108 | 2.11 | 2 |
| 15 | 14.14 | 29.502 | 21.94 | 0.519 | 5.81 | 101 | 2.15 | 3 |
| 20 | 14.11 | 29.542 | 21.98 | 0.507 | 5.68 | 98 | 2.18 | 3 |

CRUISE PSO 03 STATION 015 FLAPJACK POINT

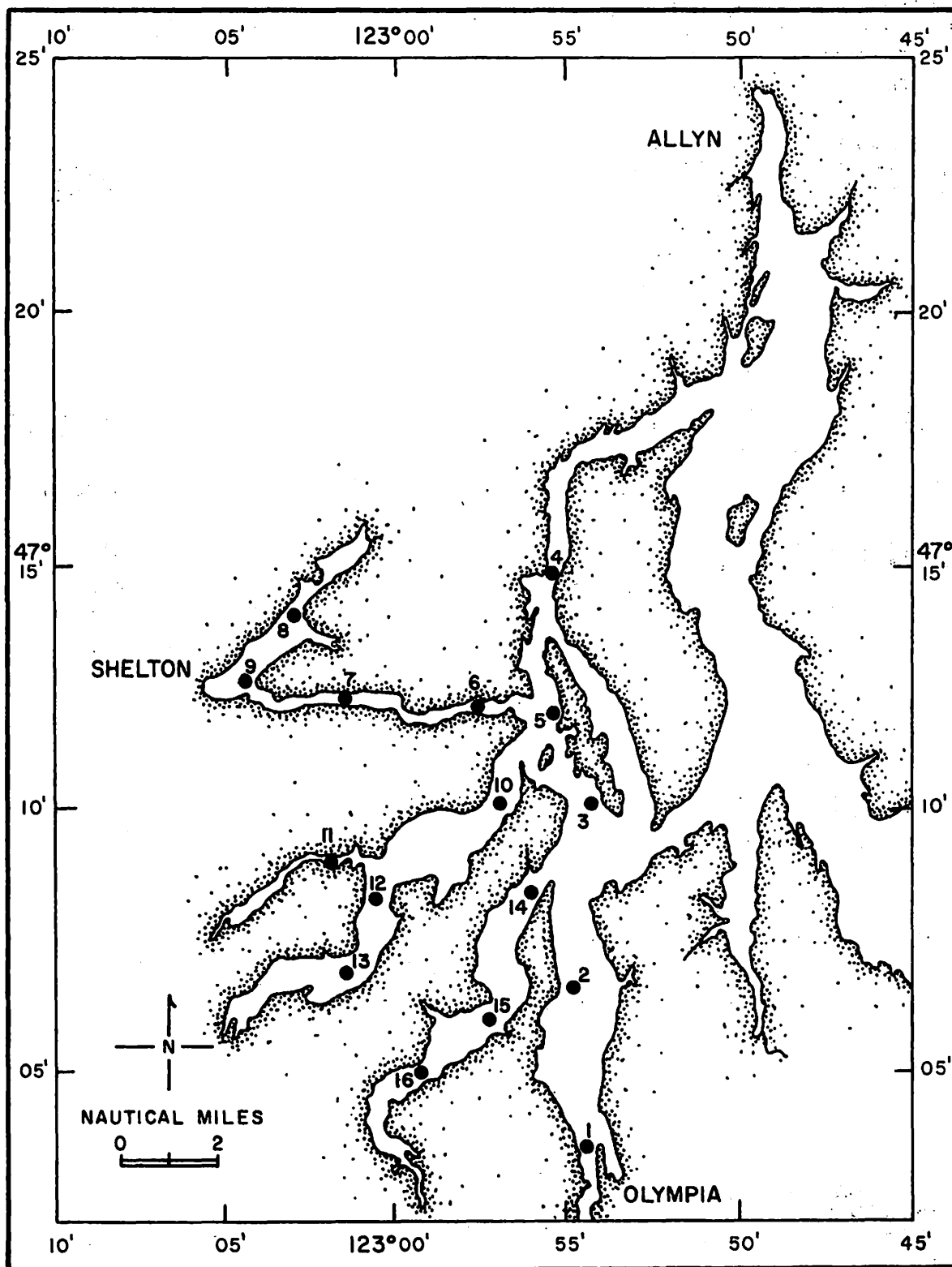
DATE 09/05/57 HR 1405 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 1.1 STG R WSPD 06 DIR 360 WEA 01 SEA 1 BAR 09 DRY 76.0
 CL * AMT 6 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.33 | 29.063 | 20.92 | 0.873 | 9.78 | 180 | 2.89 | 3 |
| 2 | 15.91 | 29.233 | 21.37 | 0.692 | 7.75 | 139 | 2.52 | 2 |
| 4 | 15.02 | 29.365 | 21.66 | 0.515 | 5.77 | 102 | 2.36 | 3 |
| 7 | 14.69 | 29.390 | 21.75 | 0.457 | 5.12 | 90 | 2.31 | 2 |
| 12 | 14.56 | 29.381 | 21.77 | 0.428 | 4.79 | 84 | 2.17 | 2 |

CRUISE PSO 03 STATION 016 ELD INLET, HEAD OF

DATE 09/05/57 HR 1434 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.0 STG R WSPD 04 DIR 160 WEA 02 SEA 1 BAR 09 DRY 78.0
 CL * AMT 6 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.81 | 28.964 | 20.73 | 0.683 | 7.65 | 142 | 2.38 | 3 |
| 1 | 16.85 | 29.036 | 21.01 | 0.694 | 7.77 | 142 | 2.93 | 3 |
| 2 | 16.12 | 29.137 | 21.25 | 0.737 | 8.25 | 149 | 2.98 | 2 |
| 4 | 15.05 | 29.307 | 21.61 | 0.509 | 5.70 | 101 | 2.38 | 3 |
| 7 | 14.96 | 29.314 | 21.63 | 0.413 | 4.63 | 81 | 2.40 | 3 |
| 12 | 14.81 | 29.314 | 21.66 | 0.326 | 3.65 | 64 | --- | 3 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-04 8-9 OCT. 1957

CRUISE PSO 04 STATION 001 BUDD INLET BUOY NO 12

DATE 10/08/57 HR 915 ZN 08 LAT 47-03.5N LONG 122-54.4W AREA BUD
 TIDE HT 06.8 STG F WSPD 07 DIR 360 WEA 02 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.73 | 25.156 | 18.87 | 0.422 | 4.73 | 77 | 2.83 | 3 |
| 2 | 13.13 | 27.979 | 20.97 | 0.453 | 5.07 | 85 | 2.70 | 4 |
| 4 | 13.96 | 29.128 | 21.69 | 0.307 | 3.44 | 59 | 2.91 | 4 |

CRUISE PSO 04 STATION 002 GULL HARBOR

DATE 10/08/57 HR 1019 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 05.2 STG F WSPD 08 DIR 360 WEA 02 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.22 | 29.208 | 21.90 | 0.416 | 4.66 | 79 | 2.46 | 4 |
| 2 | 13.21 | 29.229 | 21.92 | 0.445 | 4.98 | 85 | 2.49 | 1 |
| 5 | 13.42 | 29.484 | 22.07 | 0.457 | 5.12 | 87 | 2.46 | 2 |
| 10 | 13.60 | 29.605 | 22.13 | 0.327 | 3.66 | 63 | 2.76 | 4 |
| 15 | 13.25 | 29.634 | 22.22 | 0.340 | 3.81 | 65 | 2.74 | 3 |

CRUISE PSO 04 STATION 003 HUNTER POINT

DATE 10/08/57 HR 1138 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 04.8 STG L WSPD 05 DIR 340 WEA 02 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.54 | 29.654 | 22.18 | 0.412 | 4.61 | 79 | 2.38 | 4 |
| 2 | 13.51 | 29.663 | 22.19 | 0.344 | 3.85 | 66 | 2.41 | 4 |
| 5 | 13.48 | 29.659 | 22.20 | 0.362 | 4.05 | 69 | 2.40 | 2 |
| 10 | 13.48 | 29.663 | 22.20 | 0.387 | 4.33 | 74 | 2.47 | 5 |
| 15 | 13.44 | 29.679 | 22.22 | 0.386 | 4.32 | 74 | 2.41 | 4 |

CRUISE PSO 04 STATION 004 GRAHAM POINT

DATE 10/08/57 HR 1320 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 06.4 STG R WSPD 10 DIR 360 WEA 02 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.73 | 29.466 | 22.00 | 0.426 | 4.77 | 82 | 2.41 | 2 |
| 2 | 13.72 | 29.470 | 22.00 | 0.437 | 4.89 | 84 | 2.39 | 1 |
| 5 | 13.74 | 29.468 | 22.00 | 0.408 | 4.57 | 79 | 2.37 | 3 |
| 10 | 13.71 | 29.480 | 22.01 | 0.398 | 4.46 | 77 | 2.36 | 4 |
| 15 | 13.71 | 29.480 | 22.01 | 0.362 | 4.05 | 70 | 2.41 | 4 |

CRUISE PSO 04 STATION 005 ARCADIA

DATE 10/08/57 HR 1403 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 08.3 STG R WSPD 07 DIR 360 WEA 02 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.75 | 29.294 | 21.86 | 0.358 | 4.01 | 69 | 2.32 | 3 |
| 2 | 13.72 | 29.361 | 21.92 | 0.428 | 4.79 | 82 | 2.45 | 1 |
| 5 | 13.68 | 29.432 | 21.98 | 0.304 | 3.40 | 58 | 2.45 | 4 |
| 10 | 13.60 | --- | --- | 0.331 | 3.71 | --- | --- | |

CRUISE PSO 04 STATION 006 CANNERY POINT

DATE 10/08/57 HR 1434 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 09.1 STG R WSPD 00 DIR WEA 63 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.70 | 29.437 | 21.98 | 0.423 | 4.74 | 81 | 2.39 | 3 |
| 2 | 13.71 | 29.439 | 21.98 | 0.426 | 4.77 | 82 | 2.36 | 5 |
| 5 | 13.68 | 29.448 | 21.99 | 0.332 | 3.72 | 64 | 2.40 | 3 |

CRUISE PSO 04 STATION 007 CHURCH POINT, W OF

DATE 10/08/57 HR 1514 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 1.2 STG R WSPD 03 DIR 315 WEA 63 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.76 | 29.287 | 21.86 | 0.413 | 4.63 | 79 | 2.35 | 2 |
| 2 | 13.76 | 29.285 | 21.85 | 0.412 | 4.61 | 79 | 2.27 | 2 |
| 4 | 13.76 | 29.262 | 21.84 | 0.377 | 4.22 | 73 | 2.40 | 2 |
| 7 | 13.79 | 29.264 | 21.83 | 0.355 | 3.98 | 68 | 2.14 | 2 |
| 10 | 13.76 | 29.291 | 21.86 | 0.398 | 4.46 | 77 | 2.49 | 2 |
| 15 | 13.76 | 29.278 | 21.85 | 0.390 | 4.37 | 75 | 2.42 | 2 |

CRUISE PSO 04 STATION 008 CHAPMAN COVE, NW OF

DATE 10/08/57 HR 1601 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 12.0 STG R WSPD 05 DIR 360 WEA 63 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.03 | 27.908 | 20.74 | 0.373 | 4.18 | 71 | 2.52 | 2 |
| 1 | 14.06 | 27.982 | 20.79 | 0.362 | 4.05 | 69 | 2.67 | 2 |
| 2 | 14.03 | 28.000 | 20.81 | 0.386 | 4.32 | 74 | 2.74 | 2 |
| 5 | 14.04 | 28.592 | 21.27 | --- | --- | --- | 2.92 | 2 |

CRUISE PSO 04 STATION 009 SHELTON

DATE 10/08/57 HR 1635 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 12.8 STG R WSPD 05 DIR 340 WEA 63 SEA 1 BAR * DRY *
 CL * AMT 8 SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.92 | 28.926 | 21.55 | 0.340 | 3.81 | 66 | 2.44 | 2 |
| 2 | 13.95 | 28.941 | 21.55 | --- | --- | --- | 2.57 | 2 |
| 4 | 13.92 | 28.937 | 21.55 | 0.395 | 4.42 | 76 | 2.64 | 2 |
| 7 | 13.92 | 28.950 | 21.56 | 0.370 | 4.14 | 71 | 2.70 | 1 |
| 10 | 13.92 | 28.961 | 21.57 | 0.406 | 4.55 | 78 | 3.05 | 2 |

CRUISE PSO 04 STATION 010 WINDY PT. NE OF

DATE 10/09/57 HR 834 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 08.9 STG F WSPD 01 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 7 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.53 | 29.618 | 22.15 | 0.435 | 4.87 | 83 | 2.35 | 2 |
| 2 | 13.48 | 29.628 | 22.17 | 0.399 | 4.47 | 76 | 2.36 | 2 |
| 5 | 13.48 | 29.639 | 22.18 | 0.393 | 4.40 | 75 | 2.37 | 2 |
| 10 | 13.46 | 29.634 | 22.18 | 0.403 | 4.51 | 77 | 2.42 | 2 |
| 20 | 13.45 | 29.637 | 22.19 | 0.385 | 4.31 | 74 | 2.45 | 2 |

CRUISE PSO 04 STATION 011 SKOOKUM INLET, ENTRANCE

DATE 10/09/57 HR 929 ZN 08 LAT 47-09.1N LONG 123-02.0W AREA TOT
 TIDE HT 07.2 STG F WSPD 04 DIR 070 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 6 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.94 | 29.224 | 21.77 | 0.375 | 4.20 | 72 | 2.57 | 2 |
| 1 | 13.88 | 29.231 | 21.79 | 0.380 | 4.26 | 73 | 2.42 | 2 |
| 2 | 13.90 | 29.229 | 21.78 | 0.393 | 4.40 | 76 | 2.58 | 2 |

CRUISE PSO 04 STATION 012 NEW KAMILCHE

DATE 10/09/57 HR 1001 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 05.8 STG F WSPD 04 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 6 SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.19 | 29.276 | 21.76 | 0.422 | 4.73 | 82 | 2.27 | 2 |
| 2 | 14.04 | 29.293 | 21.80 | 0.465 | 5.21 | 90 | 2.28 | 1 |
| 4 | 14.05 | 29.303 | 21.81 | 0.453 | 5.07 | 88 | 2.31 | 1 |
| 7 | 14.05 | 29.302 | 21.81 | 0.447 | 5.01 | 86 | 2.29 | 2 |
| 10 | 14.04 | 29.314 | 21.82 | 0.451 | 5.05 | 87 | 2.24 | 2 |
| 15 | --- | 29.329 | --- | 0.445 | 4.98 | -- | 2.23 | 1 |

CRUISE PSO 04 STATION 013 BURNS POINT

DATE 10/09/57 HR 1112 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 05.0 STG L WSPD 05 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 6 SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.32 | 28.749 | 21.53 | 0.279 | 3.12 | 53 | 2.70 | 2 |
| 1 | 13.02 | 28.858 | 21.67 | 0.349 | 3.91 | 66 | 2.68 | 2 |
| 2 | 13.14 | 28.942 | 21.71 | 0.361 | 4.04 | 68 | 2.58 | 1 |

CRUISE PSO 04 STATION 014 COOPER POINT, SW OF

DATE 10/09/57 HR 1321 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 07.0 STG R WSPD 02 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 5 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|---------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.78 | 29.697 | 22.17 | 0.480 | 5.38 | 93 | 2.27 | 1 |
| 2 | 13.64 | 29.699 | 22.20 | 0.522 | 5.85 | 100 | 2.51 | 2 |
| 5 | 13.47 | 29.717 | 22.24 | 0.487 | 5.45 | 93 | 2.46 | 2 |
| 10 | 13.32 | 29.762 | 22.31 | 0.450 | 5.04 | 86 | 2.46 | 2 |
| 15 | 13.30 | 29.771 | 22.32 | 0.437 | 4.89 | 84 | 2.52 | 2 |
| 20 | ---.--- | 29.787 | ---.--- | 0.434 | 4.86 | -- | 2.47 | 2 |

CRUISE PSO 04 STATION 015 FLAPJACK POINT

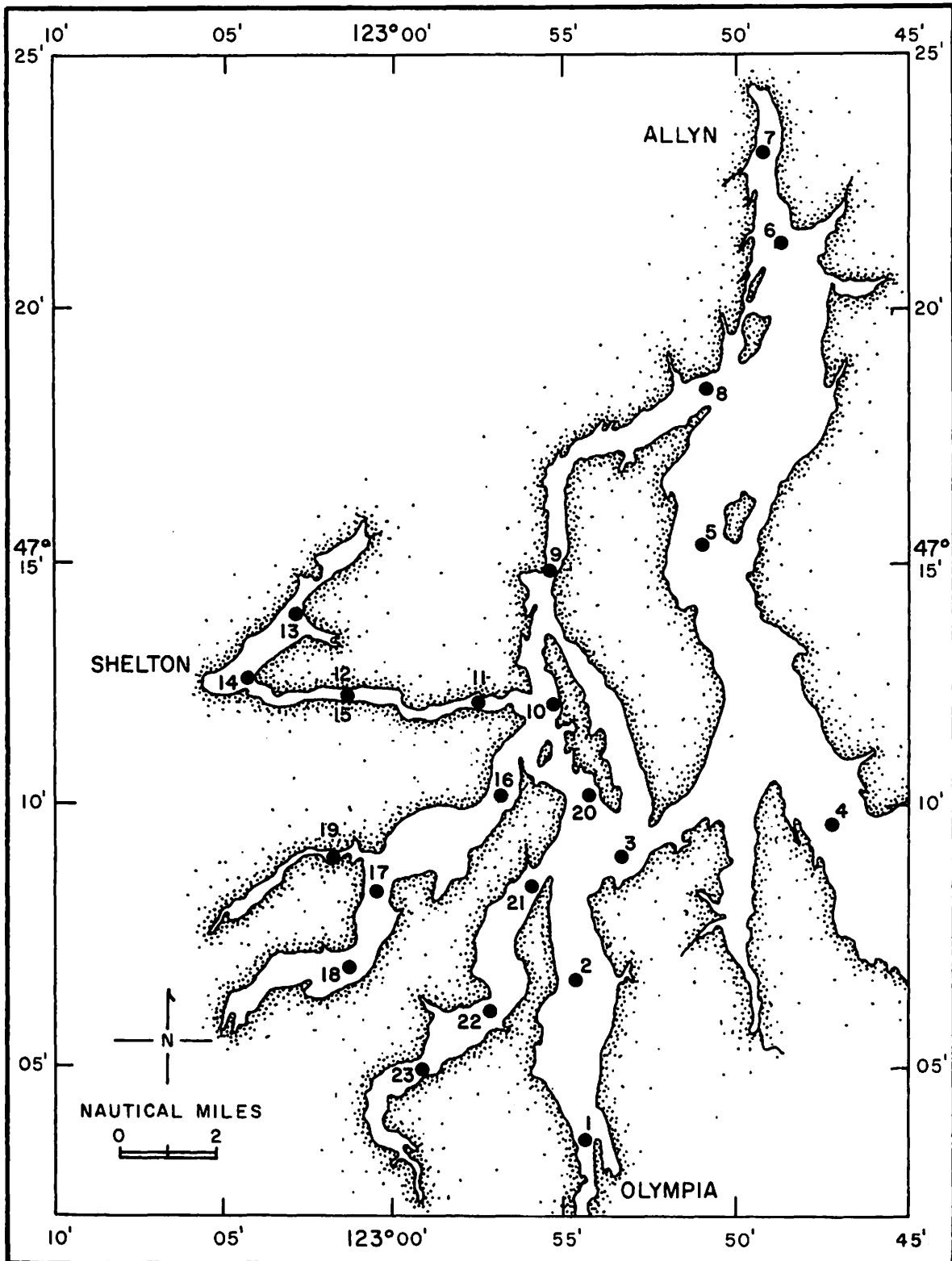
DATE 10/09/57 HR 1405 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 08.8 STG R WSPD 01 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 5 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.13 | 29.461 | 21.92 | 0.432 | 4.84 | 84 | 2.38 | 2 |
| 2 | 13.60 | 29.574 | 22.11 | 0.438 | 4.91 | 84 | 2.60 | 2 |
| 4 | 13.59 | 29.607 | 22.13 | 0.365 | 4.09 | 70 | 2.44 | 1 |
| 7 | 13.53 | 29.663 | 22.19 | 0.437 | 4.89 | 84 | 2.49 | 1 |
| 12 | 13.51 | 29.663 | 22.19 | 0.472 | 5.29 | 91 | 2.49 | 1 |

CRUISE PSO 04 STATION 016 ELD INLET, HEAD OF

DATE 10/09/57 HR 1439 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 09.8 STG R WSPD 02 DIR 360 WEA 01 SEA 1 BAR * DRY *
 CL * AMT 5 SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.82 | 28.964 | 21.59 | 0.506 | 5.67 | 97 | 3.80 | 0 |
| 1 | 13.60 | 29.042 | 21.70 | 0.536 | 6.00 | 103 | 3.71 | 0 |
| 2 | 13.58 | 29.159 | 21.79 | 0.519 | 5.81 | 99 | 3.23 | 0 |
| 4 | 13.54 | 29.260 | 21.88 | 0.540 | 6.05 | 103 | 2.99 | 2 |
| 7 | 13.58 | 29.507 | 22.06 | 0.519 | 5.81 | 100 | 2.53 | 2 |



OCEANOGRAPHIC STATION LOCATIONS
 PSO-05 2-3 NOV. 1957

CRUISE PSO 05 STATION 001 BUDD INLET BUOY NO 12

DATE 11/02/57 HR 825 ZN 08 LAT 47-03.5N LONG 122-54.4W AREA BUD
 TIDE HT 06.3 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 17 DRY 43.0
 CL * AMT 8 SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.83 | 25.318 | 18.79 | 0.291 | 3.26 | 55 | 3.42 | 2 |
| 2 | 12.46 | 29.204 | 22.04 | 0.321 | 3.60 | 60 | 3.19 | 3 |
| 4 | 12.64 | 29.468 | 22.21 | 0.284 | 3.18 | 53 | 3.22 | 4 |
| 7 | 12.57 | 29.618 | 22.34 | 0.300 | 3.36 | 56 | 3.19 | 2 |
| 10 | 12.49 | 29.663 | 22.39 | 0.302 | 3.38 | 57 | 2.96 | 3 |

CRUISE PSO 05 STATION 002 GULL HARBOR

DATE 11/02/57 HR 933 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 08.0 STG R WSPD 00 DIR WEA 01 SEA 1 BAR 17 DRY 51.0
 CL * AMT 7 SCI 10 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.55 | 29.199 | 22.20 | 0.340 | 3.81 | 62 | 2.89 | 3 |
| 2 | 11.63 | 29.271 | 22.24 | 0.402 | 4.50 | 74 | 2.98 | 2 |
| 5 | 12.26 | 29.668 | 22.43 | 0.308 | 3.45 | 58 | 3.12 | 3 |
| 10 | 12.25 | 29.753 | 22.50 | 0.303 | 3.39 | 57 | 3.04 | 3 |
| 15 | 12.30 | 29.775 | 22.51 | 0.330 | 3.70 | 62 | 3.14 | 3 |

CRUISE PSO 05 STATION 003 BRISCO POINT

DATE 11/02/57 HR 1015 ZN 08 LAT 47-09.4N LONG 122-53.0W AREA DNA
 TIDE HT 09.2 STG R WSPD 06 DIR 250 WEA 45 SEA 1 BAR 17 DRY 55.0
 CL * AMT * SCI 11 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | --.-- | 29.785 | --.-- | 0.340 | 3.81 | -- | 2.80 | 3 |
| 5 | 12.11 | 29.780 | 22.55 | 0.351 | 3.93 | 65 | 2.80 | 3 |
| 10 | 12.09 | 29.831 | 22.59 | 0.326 | 3.65 | 61 | 2.89 | 3 |
| 20 | 12.06 | 29.897 | 22.65 | 0.353 | 3.95 | 66 | 2.84 | 3 |
| 30 | 12.05 | 29.941 | 22.68 | 0.308 | 3.45 | 57 | 2.86 | 3 |

CRUISE PSO 05 STATION 004 DEVILS HEAD

DATE 11/02/57 HR 1130 ZN 08 LAT 47-10.0N LONG 122-47.3W AREA CSE
 TIDE HT 11.1 STG R WSPD 12 DIR 360 WEA 01 SEA 1 BAR 18 DRY 52.0
 CL AMT SCI 09 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.78 | 29.273 | 22.22 | 0.372 | 4.17 | 69 | 2.76 | 3 |
| 5 | 12.06 | 29.930 | 22.67 | 0.275 | 3.08 | 51 | 2.85 | 3 |
| 10 | 12.00 | 29.966 | 22.71 | 0.271 | 3.04 | 50 | 2.82 | 4 |
| 20 | 12.02 | 29.986 | 22.72 | 0.240 | 2.69 | 45 | 2.75 | 3 |
| 30 | 12.00 | 30.053 | 22.78 | 0.305 | 3.42 | 57 | 2.84 | 3 |
| 50 | 11.97 | 30.074 | 22.80 | 0.264 | 2.96 | 49 | 2.80 | 3 |
| 75 | 11.89 | 30.078 | 22.82 | 0.316 | 3.54 | 59 | 2.78 | 3 |

CRUISE PSO 05 STATION 005 HERRON ISLAND

DATE 11/02/57 HR 1235 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 TIDE HT 12.7 STG R WSPD 08 DIR 360 WEA 02 SEA 1 BAR 16 DRY 59.0
 CL AMT SCI 12 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.33 | 29.726 | 22.47 | 0.402 | 4.50 | 75 | 2.83 | 3 |
| 5 | 12.20 | 29.762 | 22.52 | 0.389 | 4.36 | 73 | 3.12 | 3 |
| 10 | 12.20 | 29.858 | 22.59 | 0.378 | 4.23 | 71 | 3.31 | 1 |
| 20 | 12.10 | 29.948 | 22.68 | 0.349 | 3.91 | 65 | 3.28 | 3 |
| 30 | 12.10 | 30.020 | 22.73 | 0.357 | 4.00 | 67 | 3.36 | 0 |
| 50 | 12.01 | 30.081 | 22.80 | 0.343 | 3.84 | 64 | 3.25 | 3 |

CRUISE PSO 05 STATION 006 ROCKY POINT

DATE 11/02/57 HR 1356 ZN 08 LAT 47-21.3N LONG 122-48.8W AREA CSE
 TIDE HT 13.6 STG H WSPD 12 DIR 360 WEA 02 SEA 1 BAR 16 DRY 58.0
 CL AMT SCI 11 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.27 | 29.576 | 22.36 | 0.429 | 4.80 | 80 | 2.88 | 3 |
| 2 | 12.22 | 29.580 | 22.37 | 0.400 | 4.48 | 75 | 2.95 | 3 |
| 5 | 12.24 | 29.590 | 22.38 | 0.413 | 4.63 | 77 | 2.93 | 3 |
| 10 | 12.44 | 29.834 | 22.53 | 0.314 | 3.52 | 59 | 3.01 | 3 |
| 15 | 12.17 | 30.002 | 22.71 | 0.303 | 3.39 | 57 | 3.00 | 3 |

CRUISE PSO 05 STATION 007 ALLYN

DATE 11/02/57 HR 1430 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 13.6 STG H WSPD 13 DIR 360 WEA 02 SEA 1 BAR 15 DRY 58.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.27 | 29.370 | 22.20 | 0.394 | 4.41 | 74 | 3.00 | 3 |
| 1 | 12.26 | 29.379 | 22.21 | 0.384 | 4.30 | 72 | 3.01 | 4 |
| 2 | 12.34 | 29.441 | 22.24 | 0.388 | 4.35 | 73 | 3.06 | 4 |
| 5 | 12.49 | 29.674 | 22.40 | 0.351 | 3.93 | 66 | 3.14 | 4 |

CRUISE PSO 05 STATION 008 DOUGALL POINT

DATE 11/02/57 HR 1530 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 13.0 STG F WSPD 13 DIR 360 WEA 02 SEA 1 BAR 15 DRY 56.0
 CL AMT SCI 09 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.08 | 29.596 | 22.41 | 0.421 | 4.72 | 78 | 2.86 | 3 |
| 5 | 12.09 | 29.581 | 22.40 | 0.375 | 4.20 | 70 | 2.90 | 4 |
| 10 | 12.10 | 29.634 | 22.44 | 0.395 | 4.42 | 74 | 2.95 | 4 |
| 15 | 12.04 | 29.701 | 22.50 | 0.390 | 4.37 | 72 | 3.05 | 4 |
| 25 | 12.12 | 29.937 | 22.67 | 0.374 | 4.19 | 70 | 2.93 | 4 |

CRUISE PSO 05 STATION 009 GRAHAM POINT

DATE 11/02/57 HR 1631 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 11.7 STG F WSPD 11 DIR 360 WEA 02 SEA 1 BAR 15 DRY 56.0
 CL AMT SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.25 | 29.437 | 22.26 | 0.333 | 3.73 | 62 | 2.91 | 3 |
| 5 | 12.23 | 29.455 | 22.27 | 0.401 | 4.49 | 75 | 3.11 | 3 |
| 10 | 12.24 | 29.473 | 22.29 | 0.357 | 4.00 | 67 | 3.08 | 3 |
| 15 | 12.21 | 29.498 | 22.31 | 0.270 | 3.02 | 50 | 3.17 | 4 |

CRUISE PSO 05 STATION 010 ARCADIA

DATE 11/02/57 HR 1719 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 1.0 STG F WSPD 08 DIR 360 WEA 02 SEA 1 BAR 14 DRY 52.0
 CL AMT SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.17 | 29.206 | 22.09 | 0.393 | 4.40 | 73 | 2.91 | 4 |
| 2 | 12.13 | 29.222 | 22.11 | 0.394 | 4.41 | 73 | 2.93 | 3 |
| 5 | 12.15 | 29.217 | 22.11 | 0.380 | 4.26 | 71 | 2.97 | 3 |
| 10 | 12.13 | 29.217 | 22.11 | 0.354 | 3.96 | 66 | 3.04 | 3 |

CRUISE PSO 05 STATION 011 CANNERY POINT

DATE 11/02/57 HR 1746 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 09.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 14 DRY 50.0
 CL AMT SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.04 | 28.995 | 21.95 | 0.335 | 3.75 | 62 | 2.96 | 2 |
| 2 | 12.04 | 28.998 | 21.96 | 0.312 | 3.49 | 58 | 2.95 | 3 |
| 5 | 12.05 | 28.993 | 21.95 | 0.320 | 3.58 | 59 | 3.03 | 3 |

CRUISE PSO 05 STATION 012 CHURCH POINT, W OF

DATE 11/02/57 HR 1828 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 08.0 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 14 DRY *
 CL AMT SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.93 | 28.008 | 21.21 | 0.342 | 3.83 | 63 | 2.99 | 3 |
| 2 | 11.94 | 28.074 | 21.26 | 0.320 | 3.58 | 59 | 3.13 | 3 |
| 4 | 11.96 | 28.069 | 21.25 | 0.319 | 3.57 | 59 | 3.18 | 4 |
| 7 | 11.96 | 28.105 | 21.28 | 0.358 | 4.01 | 66 | 3.12 | 4 |
| 12 | 11.96 | 28.130 | 21.30 | 0.336 | 3.76 | 62 | 3.17 | 2 |

CRUISE PSO 05 STATION 013 CHAPMAN COVE, NW OF

DATE 11/03/57 HR 744 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 05.4 STG F WSPD 00 DIR WEA 45 SEA 0 BAR 12 DRY 36.0
 CL X AMT 9 SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.10 | 26.302 | 20.03 | 0.372 | 4.17 | 66 | 3.10 | 3 |
| 1 | 11.40 | 26.589 | 20.21 | 0.342 | 3.83 | 61 | 3.11 | 3 |
| 2 | 11.68 | 27.058 | 20.52 | 0.349 | 3.91 | 63 | 3.26 | 3 |
| 4 | 11.92 | 27.668 | 20.95 | 0.333 | 3.73 | 61 | 3.24 | 3 |

CRUISE PSO 05 STATION 014 SHELTON

DATE 11/03/57 HR 826 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 04.9 STG L WSPD 00 DIR WEA 45 SEA 0 BAR 12 DRY 39.0
 CL X AMT 9 SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.13 | 26.588 | 20.33 | 0.358 | 4.01 | 64 | 2.79 | 4 |
| 1 | 11.42 | 26.979 | 20.50 | 0.329 | 3.68 | 59 | 3.12 | 3 |
| 3 | 11.74 | 27.298 | 20.70 | 0.287 | 3.21 | 52 | 2.93 | 3 |

CRUISE PSO 05 STATION 015 CHURCH POINT, W OF

DATE 11/03/57 HR 858 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 04.9 STG L WSPD 00 DIR WEA 45 SEA 0 BAR 12 DRY 42.0
 CL X AMT 9 SCI 06 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.58 | 27.647 | 20.99 | 0.340 | 3.81 | 62 | 3.12 | 3 |
| 4 | 11.58 | 27.690 | 21.03 | 0.313 | 3.51 | 57 | 3.09 | 3 |
| 12 | 11.62 | 27.674 | 21.01 | 0.323 | 3.62 | 59 | 3.14 | 3 |

CRUISE PSO 05 STATION 016 WINDY PT, NE OF

DATE 11/03/57 HR 1036 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 06.6 STG R WSPD 05 DIR 180 WEA 01 SEA 1 BAR 12 DRY 62.0
 CL AMT SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.02 | 29.358 | 22.24 | 0.349 | 3.91 | 65 | 2.90 | 2 |
| 2 | 12.06 | 29.365 | 22.24 | 0.368 | 4.12 | 68 | 2.97 | 3 |
| 5 | 12.07 | 29.394 | 22.26 | 0.355 | 3.98 | 66 | 2.88 | 3 |
| 10 | 12.05 | 29.435 | 22.29 | 0.362 | 4.05 | 67 | 2.87 | 3 |
| 20 | 11.98 | 29.4-4 | 22.31 | 0.400 | 4.48 | 74 | 3.01 | 4 |
| 30 | 12.00 | 29.475 | 22.33 | 0.409 | 4.58 | 76 | 2.79 | 3 |

CRUISE PSO 05 STATION 017 NEW KAMILCHE

DATE 11/03/57 HR 1135 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 08.6 STG R WSPD 00 DIR WEA 02 SEA 1 BAR 12 DRY 64.0
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.85 | 28.930 | 21.94 | 0.355 | 3.98 | 65 | 2.80 | 3 |
| 2 | 11.86 | 28.930 | 21.94 | 0.333 | 3.73 | 61 | 2.90 | 2 |
| 4 | 11.79 | 28.924 | 21.94 | --- | --- | --- | 2.91 | 3 |
| 7 | 11.68 | 28.924 | 21.96 | 0.368 | 4.12 | 68 | 2.90 | 2 |
| 10 | 11.78 | 29.000 | 22.00 | 0.363 | 4.07 | 67 | 2.99 | 3 |

CRUISE PSO 05 STATION 018 BURNS POINT

DATE 11/03/57 HR 1200 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 09.2 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 12 DRY *
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.78 | 28.881 | 21.91 | 0.293 | 3.28 | 54 | 2.96 | 2 |
| 1 | 11.74 | 28.926 | 21.95 | 0.350 | 3.92 | 64 | 3.00 | 3 |
| 2 | 11.65 | 28.914 | 21.96 | 0.289 | 3.24 | 53 | 2.99 | 3 |
| 4 | 11.63 | 28.917 | 21.97 | 0.262 | 2.93 | 48 | 2.98 | 3 |

CRUISE PSO 05 STATION 019 SKOOKUM INLET, ENTRANCE

DATE 11/03/57 HR 1251 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 1.6 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 11 DRY *
 CL AMT SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.78 | 28.933 | 21.95 | 0.375 | 4.20 | 69 | 2.91 | 3 |
| 1 | 11.74 | 28.948 | 21.97 | 0.347 | 3.89 | 64 | 3.01 | 3 |
| 2 | 11.75 | 28.948 | 21.97 | 0.332 | 3.72 | 61 | 3.05 | 3 |

CRUISE PSO 05 STATION 020 HUNTER POINT

DATE 11/03/57 HR 1407 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 12.4 STG H WSPD 06 DIR 180 WEA 02 SEA 1 BAR 10 DRY *
 CL AMT SCI 12 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.13 | 29.558 | 22.37 | 0.374 | 4.19 | 70 | 2.94 | 4 |
| 2 | 12.08 | 29.607 | 22.42 | 0.301 | 3.37 | 56 | 2.92 | 4 |
| 5 | 12.08 | 29.632 | 22.44 | 0.395 | 4.42 | 73 | 2.97 | 3 |
| 10 | 12.08 | 29.664 | 22.46 | 0.346 | 3.88 | 64 | 2.93 | 3 |
| 15 | 12.08 | 29.702 | 22.49 | 0.363 | 4.07 | 68 | 3.01 | 3 |

CRUISE PS0 05 STATION 021 COOPER POINT, SW OF

DATE 11/03/57 HR 1453 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 12.4 STG H WSPD 00 DIR WEA 02 SEA 0 BAR 10 DRY *
 CL AMT SCI 11 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.05 | 29.695 | 22.49 | 0.227 | 2.54 | 42 | 2.84 | 3 |
| 2 | 12.06 | 29.713 | 22.51 | 0.197 | 2.21 | 37 | 2.87 | 3 |
| 5 | 12.04 | 29.708 | 22.50 | 0.308 | 3.45 | 57 | 2.86 | 3 |
| 10 | 12.02 | 29.731 | 22.53 | 0.290 | 3.25 | 54 | 2.85 | 4 |
| 15 | 12.01 | 29.726 | 22.52 | 0.286 | 3.20 | 53 | 2.91 | 3 |
| 20 | 12.02 | 29.757 | 22.55 | 0.285 | 3.19 | 53 | 2.97 | 3 |

CRUISE PS0 05 STATION 022 FLAPJACK POINT

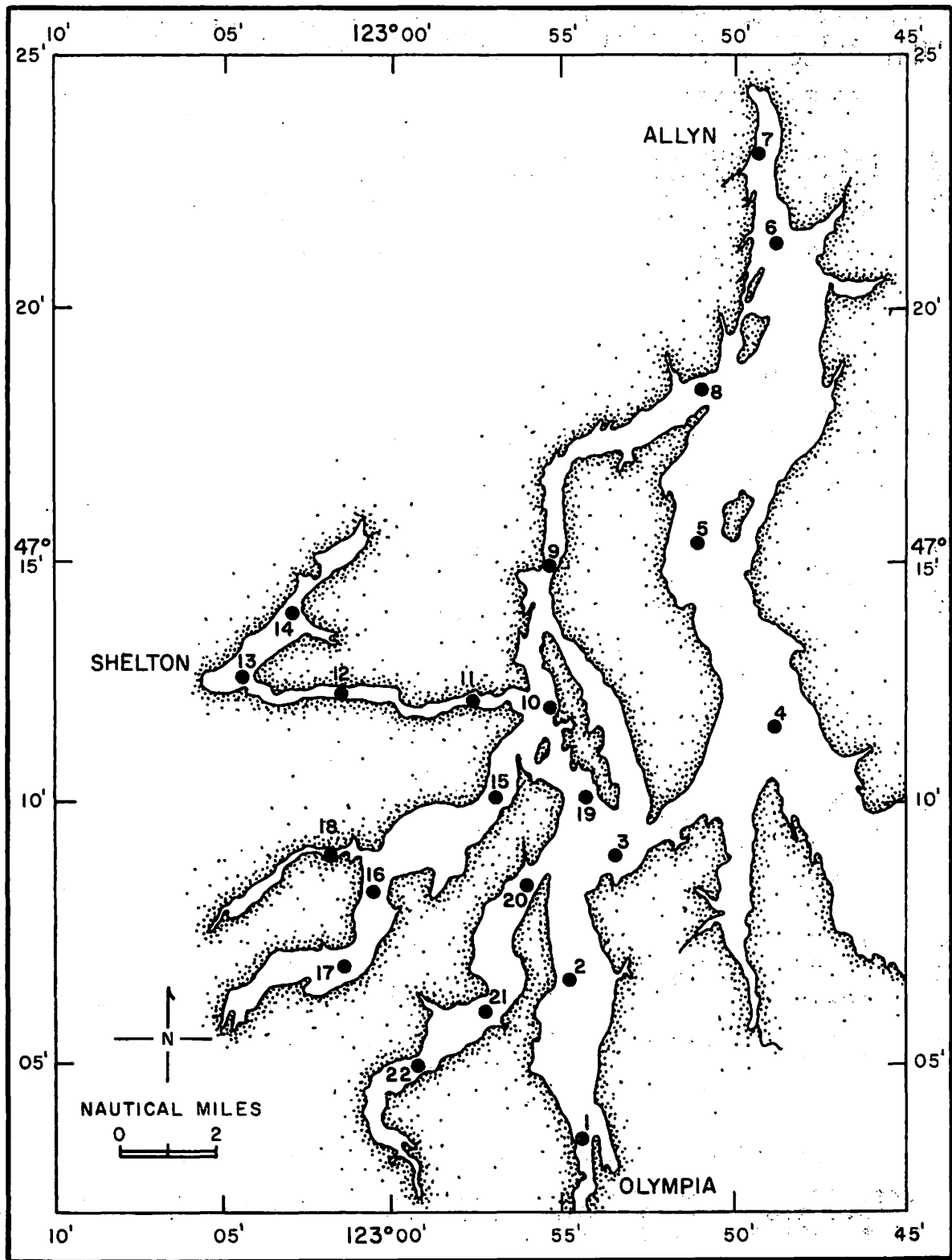
DATE 11/03/57 HR 1533 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 12.0 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 10 DRY *
 CL AMT SCI 09 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.06 | 29.493 | 22.34 | 0.435 | 4.87 | 81 | 2.79 | 2 |
| 2 | 11.99 | 29.486 | 22.34 | 0.438 | 4.91 | 81 | 2.90 | 4 |
| 4 | 11.90 | 29.507 | 22.37 | 0.406 | 4.55 | 75 | 2.96 | 3 |
| 7 | 11.94 | 29.518 | 22.38 | 0.412 | 4.61 | 76 | 2.85 | 3 |
| 12 | 11.94 | 29.551 | 22.40 | 0.413 | 4.63 | 77 | 2.94 | 3 |

CRUISE PS0 05 STATION 023 ELD INLET, HEAD OF

DATE 11/03/57 HR 1605 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.1 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 10 DRY *
 CL AMT SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.92 | 29.249 | 22.17 | 0.445 | 4.98 | 82 | 3.25 | 2 |
| 1 | 11.88 | 29.269 | 22.19 | 0.503 | 5.63 | 93 | 3.33 | 3 |
| 2 | 11.73 | 29.278 | 22.23 | 0.488 | 5.47 | 90 | 3.20 | 2 |
| 4 | 11.73 | 29.322 | 22.26 | 0.423 | 4.74 | 78 | 3.28 | 3 |
| 7 | 11.84 | 29.379 | 22.29 | 0.381 | 4.27 | 70 | 3.22 | 3 |
| 10 | 12.03 | 29.511 | 22.35 | 0.434 | 4.86 | 81 | 3.04 | 3 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-06 23-24 NOV. 1957

CRUISE PSO 06 STATION 001 BUDD INLET BUOY NO 12

DATE 11/23/57 HR 702 ZN 08 LAT 47-03.6N LONG 122-54.4W AREA BUD
 TIDE HT 15.4 STG H WSPD 01 DIR 180 WEA 01 SEA 1 BAR 12 DRY 45.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.44 | 26.369 | 20.19 | 0.318 | 3.56 | 56 | 2.36 | 4 |
| 2 | 10.62 | 28.887 | 22.11 | 0.383 | 4.29 | 69 | 2.44 | 4 |
| 4 | 10.94 | 29.412 | 22.47 | 0.302 | 3.38 | 55 | 2.90 | 3 |
| 7 | 10.94 | 29.453 | 22.50 | 0.353 | 3.95 | 64 | 2.43 | 3 |
| 10 | 10.92 | 29.430 | 22.49 | 0.380 | 4.26 | 69 | 2.79 | 3 |

CRUISE PSO 06 STATION 002 GULL HARBOR

DATE 11/23/57 HR 738 ZN 08 LAT 46-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 15.2 STG F WSPD 11 DIR 180 WEA 01 SEA 1 BAR 12 DRY 47.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.15 | 29.002 | 22.28 | 0.344 | 3.85 | 61 | 2.63 | 4 |
| 2 | 10.25 | 28.919 | 22.20 | 0.371 | 4.16 | 66 | 2.75 | 3 |
| 5 | 10.48 | 29.271 | 22.44 | 0.301 | 3.37 | 54 | 2.82 | 4 |
| 10 | 10.62 | 29.522 | 22.61 | 0.339 | 3.80 | 61 | 2.76 | 3 |
| 15 | 10.70 | 29.702 | 22.73 | 0.360 | 4.03 | 65 | 2.68 | 4 |

CRUISE PSO 06 STATION 003 DOVER POINT

DATE 11/23/57 HR 807 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 14.8 STG F WSPD 10 DIR 225 WEA 01 SEA 1 BAR 12 DRY 48.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.70 | 29.728 | 22.75 | 0.337 | 3.77 | 61 | 2.52 | 4 |
| 5 | 10.69 | 29.729 | 22.76 | 0.308 | 3.45 | 56 | 2.60 | 4 |
| 10 | 10.70 | 29.755 | 22.77 | 0.384 | 4.30 | 69 | 2.67 | 3 |
| 20 | 10.76 | 29.782 | 22.79 | 0.393 | 4.40 | 71 | 2.64 | 3 |
| 30 | 10.76 | 29.748 | 22.76 | 0.323 | 3.62 | 58 | 2.68 | 4 |
| 50 | 10.76 | 29.798 | 22.80 | 0.359 | 4.02 | 65 | 2.68 | 5 |

CRUISE PSO 06 STATION 004 JOHNSON POINT, N OF

DATE 11/23/57 HR 854 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 13.8 STG F WSPD 09 DIR 225 WEA 01 SEA 1 BAR 11 DRY 50.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.76 | 29.852 | 22.84 | 0.404 | 4.52 | 73 | 2.43 | 5 |
| 5 | 10.76 | 29.917 | 22.89 | 0.391 | 4.38 | 71 | 2.67 | 4 |
| 10 | 10.76 | 29.897 | 22.87 | 0.385 | 4.31 | 70 | 2.52 | 4 |
| 20 | 10.88 | 29.852 | 22.82 | 0.400 | 4.48 | 73 | 2.44 | 5 |
| 30 | 10.85 | 29.852 | 22.82 | 0.395 | 4.42 | 72 | 2.44 | 4 |
| 50 | 10.84 | 29.971 | 22.92 | 0.407 | 4.56 | 74 | 2.52 | 4 |

CRUISE PSO 06 STATION 005 HERRON ISLAND

DATE 11/23/57 HR 953 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 TIDE HT 11.6 STG F WSPD 08 DIR 180 WEA 01 SEA 1 BAR 12 DRY 58.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.78 | 29.798 | 22.79 | 0.336 | 3.76 | 61 | 2.52 | 3 |
| 5 | 10.78 | 29.758 | 22.76 | --- | --- | --- | 2.60 | 4 |
| 10 | 10.78 | 29.841 | 22.83 | 0.365 | 4.09 | 66 | 2.60 | 3 |
| 20 | 10.81 | 29.767 | 22.77 | 0.399 | 4.47 | 72 | 2.64 | 4 |
| 30 | 10.76 | 29.822 | 22.82 | 0.321 | 3.60 | 58 | 2.67 | 1 |
| 50 | 10.83 | 29.888 | 22.86 | 0.324 | 3.63 | 59 | 2.64 | 5 |

CRUISE PSO 06 STATION 006 ROCKY POINT

DATE 11/23/57 HR 1056 ZN 08 LAT 47-21.3N LONG 122-48.8W AREA CSE
 TIDE HT 09.5 STG F WSPD 04 DIR 160 WEA 01 SEA 1 BAR 12 DRY 59.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.70 | 29.646 | 22.69 | 0.374 | 4.19 | 68 | 2.56 | 4 |
| 2 | 10.72 | 29.666 | 22.70 | 0.377 | 4.22 | 68 | 2.86 | 3 |
| 5 | 10.74 | 29.726 | 22.75 | 0.395 | 4.42 | 71 | 2.74 | 5 |
| 10 | 10.80 | 29.748 | 22.75 | 0.349 | 3.91 | 63 | 2.82 | 3 |
| 15 | 10.94 | 29.881 | 22.83 | 0.333 | 3.73 | 61 | 2.82 | 3 |

CRUISE PSO 06 STATION 007 ALLYN

DATE 11/23/57 HR 1123 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 08.5 STG F WSPD 06 DIR 180 WEA 01 SEA 1 BAR 12 DRY 59.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.51 | 28.767 | 22.04 | 0.324 | 3.63 | 58 | 2.62 | 4 |
| 1 | 10.93 | 29.471 | 22.52 | 0.324 | 3.63 | 59 | 2.68 | 3 |
| 2 | 10.98 | 29.710 | 22.69 | 0.316 | 3.54 | 57 | 2.74 | 3 |
| 5 | 11.04 | 29.735 | 22.70 | 0.315 | 3.53 | 57 | 3.09 | 4 |

CRUISE PSO 06 STATION 008 DOUGALL POINT

DATE 11/23/57 HR 1215 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 07.5 STG L WSPD 08 DIR 180 WEA 01 SEA 1 BAR 11 DRY 64.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.86 | 29.762 | 22.75 | 0.401 | 4.49 | 73 | 2.60 | 3 |
| 5 | 10.79 | 29.683 | 22.70 | 0.347 | 3.89 | 63 | 2.44 | 3 |
| 10 | 10.81 | 29.717 | 22.73 | 0.356 | 3.99 | 64 | 2.84 | 4 |
| 15 | 10.75 | 29.726 | 22.74 | 0.321 | 3.60 | 58 | 2.82 | 4 |
| 25 | 10.80 | 29.758 | 22.76 | 0.417 | 4.67 | 75 | 2.68 | 3 |

CRUISE PSO 06 STATION 013 SHELTON

DATE 11/23/57 HR 1523 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 09.9 STG R WSPD 00 DIR WEA 01 SEA 0 BAR 10 DRY 61.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.66 | 26.291 | 20.25 | 0.370 | 4.14 | 64 | 2.34 | 5 |
| 2 | 9.72 | 27.360 | 21.07 | 0.373 | 4.18 | 65 | 2.90 | 5 |
| 4 | 9.76 | 27.547 | 21.21 | 0.371 | 4.16 | 65 | 2.83 | 4 |
| 7 | 9.86 | 28.038 | 21.58 | 0.357 | 4.00 | 63 | 2.74 | 5 |
| 10 | 9.85 | 28.006 | 21.55 | 0.375 | 4.20 | 66 | 3.21 | 4 |

CRUISE PSO 06 STATION 014 CHAPMAN COVE, NW OF

DATE 11/23/57 HR 1553 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 10.4 STG R WSPD 00 DIR WEA 01 SEA 0 BAR 10 DRY 65.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.38 | 26.282 | 20.28 | 0.350 | 3.92 | 60 | 2.74 | 4 |
| 1 | 9.34 | 26.282 | 20.29 | 0.380 | 4.26 | 65 | 2.71 | 6 |
| 2 | 9.42 | 26.464 | 20.42 | 0.355 | 3.98 | 61 | 2.79 | 5 |
| 5 | 9.76 | 27.737 | 21.36 | 0.399 | 4.47 | 70 | 3.05 | 4 |

CRUISE PSO 06 STATION 015 WINDY PT, NE OF

DATE 11/24/57 HR 810 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 15.2 STG H WSPD 04 DIR 180 WEA 03 SEA 1 BAR 09 DRY 47.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.24 | 29.161 | 22.39 | 0.314 | 3.52 | 56 | 2.14 | 4 |
| 2 | 10.22 | 29.112 | 22.35 | 0.322 | 3.61 | 57 | 2.68 | 4 |
| 5 | 10.22 | 29.174 | 22.40 | 0.322 | 3.61 | 57 | 2.75 | 4 |
| 10 | 10.22 | --- | --- | 0.332 | 3.72 | --- | 2.64 | 4 |
| 20 | 10.26 | 29.175 | 22.40 | 0.357 | 4.00 | 64 | 2.48 | 4 |
| 30 | 10.36 | 29.332 | 22.40 | --- | --- | --- | 2.83 | 4 |

CRUISE PSO 06 STATION 016 NEW KAMILCHE

DATE 11/24/57 HR 851 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 14.8 STG F WSPD 06 DIR 180 WEA 50 SEA 1 BAR 08 DRY 45.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.69 | 28.711 | 22.13 | 0.350 | 3.92 | 61 | 2.49 | 2 |
| 2 | 9.76 | 28.766 | 22.16 | 0.351 | 3.93 | 62 | 2.67 | 3 |
| 4 | 9.80 | 28.794 | 22.17 | 0.319 | 3.57 | 56 | 2.74 | 3 |
| 7 | 9.80 | 28.829 | 22.20 | --- | --- | --- | 2.90 | 2 |
| 10 | 9.86 | 28.811 | 22.18 | 0.310 | 3.47 | 55 | 2.83 | 3 |

CRUISE PSO 06 STATION 017 BURNS POINT

DATE 11/24/57 HR 918 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 14.0 STG F WSPD 04 DIR 180 WEA 50 SEA 1 BAR 08 DRY 46.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.18 | 28.289 | 21.87 | 0.345 | 3.86 | 60 | 2.08 | 3 |
| 1 | 9.24 | 28.101 | 21.72 | 0.303 | 3.39 | 52 | 2.64 | 4 |
| 2 | 9.29 | --- | --- | 0.332 | 3.72 | -- | 2.43 | 3 |
| 4 | 9.36 | 28.343 | 21.89 | 0.322 | 3.61 | 56 | 2.75 | 1 |

CRUISE PSO 06 STATION 018 SKOOKUM INLET, ENTRANCE

DATE 11/24/57 HR 954 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 13.0 STG F WSPD 03 DIR 070 WEA 50 SEA 1 BAR 08 DRY 47.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.42 | 28.403 | 21.93 | 0.325 | 3.64 | 57 | 2.71 | 3 |
| 1 | 9.38 | 28.452 | 21.97 | 0.327 | 3.66 | 57 | 2.86 | 3 |
| 2 | 9.40 | 28.423 | 21.95 | 0.321 | 3.60 | 56 | 2.83 | 4 |
| 3 | 9.39 | 28.406 | 21.93 | 0.302 | 3.38 | 52 | 2.52 | 3 |

CRUISE PSO 06 STATION 019 HUNTER POINT

DATE 11/24/57 HR 1100 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 10.6 STG F WSPD 10 DIR 110 WEA 50 SEA 1 BAR 08 DRY 45.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.48 | 29.291 | 22.45 | 0.385 | 4.31 | 69 | 2.22 | 4 |
| 2 | 10.48 | 29.529 | 22.64 | 0.297 | 3.33 | 53 | 2.45 | 4 |
| 5 | 10.52 | 29.538 | 22.64 | 0.318 | 3.56 | 57 | 2.65 | 3 |
| 10 | 10.51 | 29.538 | 22.64 | 0.320 | 3.58 | 57 | 2.60 | 4 |
| 15 | 10.56 | 29.610 | 22.69 | 0.302 | 3.38 | 54 | 2.64 | 4 |

CRUISE PSO 06 STATION 020 COOPER POINT, SW OF

DATE 11/24/57 HR 1136 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 09.4 STG F WSPD 10 DIR 180 WEA 50 SEA 1 BAR 08 DRY 47.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.24 | 29.432 | 22.60 | 0.300 | 3.36 | 53 | 2.64 | 3 |
| 2 | 10.28 | 29.448 | 22.61 | 0.378 | 4.23 | 68 | 2.74 | 3 |
| 5 | 10.48 | 29.567 | 22.67 | 0.349 | 3.91 | 63 | 2.74 | 3 |
| 10 | 10.56 | 29.636 | 22.71 | 0.384 | 4.30 | 69 | 2.81 | 5 |
| 15 | 10.59 | 29.702 | 22.75 | 0.337 | 3.77 | 61 | 2.67 | 5 |
| 20 | 10.73 | 29.686 | 22.72 | 0.357 | 4.00 | 64 | 2.75 | 5 |

CRUISE PSO 06 STATION 021 FLAPJACK POINT

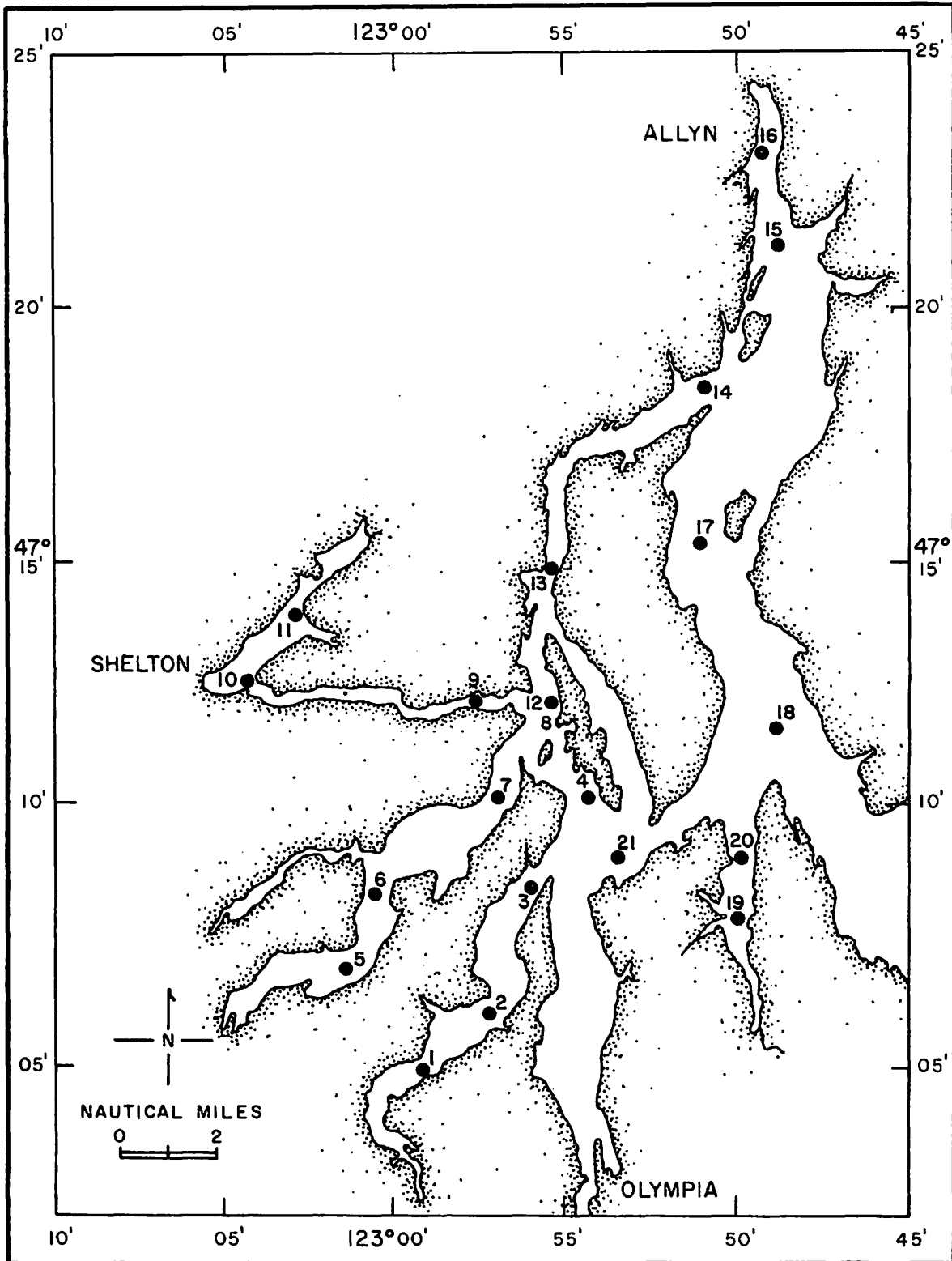
DATE 11/24/57 HR 1256 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 07.8 STG F WSPD 04 DIR 180 WEA 03 SEA 1 BAR 08 DRY 49.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|-----|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 9.74 | 29.146 | 22.46 | 0.401 | 4.49 71 | 2.86 | 4 |
| 2 | 9.72 | 29.109 | 22.43 | 0.374 | 4.19 66 | 2.98 | 3 |
| 4 | 9.74 | 29.161 | 22.47 | 0.292 | 3.27 51 | 2.94 | 3 |
| 7 | 9.97 | 29.217 | 22.48 | 0.335 | 3.75 59 | 2.86 | 5 |
| 12 | 10.38 | 29.433 | 22.58 | 0.382 | 4.28 68 | 2.86 | 3 |

CRUISE PSO 06 STATION 022 ELD INLET, HEAD OF

DATE 11/24/57 HR 1323 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 07.5 STG L WSPD 06 DIR 180 WEA 03 SEA 1 BAR 08 DRY 48.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------------|-------|-----|
| | | | | MG.AT. | ML/L SATN. | | |
| 0 | 9.41 | 28.757 | 22.20 | 0.357 | 4.00 62 | 2.65 | 3 |
| 1 | 9.41 | 28.787 | 22.23 | 0.389 | 4.36 68 | 2.86 | 4 |
| 2 | 9.48 | 28.841 | 22.26 | 0.379 | 4.24 66 | 2.90 | 4 |
| 4 | 9.90 | 29.110 | 22.40 | 0.378 | 4.23 67 | 2.90 | 5 |
| 7 | 10.09 | 29.233 | 22.47 | 0.336 | 3.76 60 | 2.95 | 4 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-07 27-28 DEC. 1957

CRUISE PSO 07 STATION 001 ELD INLET, HEAD OF.

DATE 12/27/57 HR 950 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 15.1 STG H WSPD 14 DIR 180 WEA 03 SEA 2 BAR 02 DRY 42.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.42 | 27.740 | 21.56 | 0.407 | 4.56 | 69 | 2.35 | 6 |
| 1 | 7.82 | 28.027 | 21.86 | 0.326 | 3.65 | 54 | 2.53 | 5 |
| 2 | 8.03 | 28.300 | 22.05 | --- | --- | --- | 2.47 | 3 |
| 4 | 8.64 | 28.533 | 22.14 | 0.228 | 2.55 | 39 | 2.59 | 5 |
| 7 | 8.26 | 29.080 | 22.62 | 0.320 | 3.58 | 54 | 2.61 | 5 |
| 12 | 8.84 | 29.101 | 22.56 | 0.342 | 3.83 | 59 | 2.44 | 5 |

CRUISE PSO 07 STATION 002 FLAPJACK POINT

DATE 12/27/57 HR 1039 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 14.8 STG F WSPD 13 DIR 180 WEA 60 SEA 2 BAR 01 DRY 42.0
 CL * AMT * SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.50 | 28.269 | 21.96 | 0.397 | 4.45 | 67 | 2.58 | 4 |
| 2 | 8.51 | 28.269 | 21.96 | 0.391 | 4.38 | 66 | 2.61 | 5 |
| 4 | 8.51 | 28.278 | 21.96 | 0.347 | 3.89 | 59 | 2.62 | 4 |
| 7 | 8.57 | 28.316 | 21.98 | 0.387 | 4.33 | 66 | 2.39 | 4 |
| 12 | 8.98 | 29.004 | 22.46 | 0.427 | 4.78 | 74 | 2.54 | 5 |

CRUISE PSO 07 STATION 003 COOPER POINT, SW OF

DATE 12/27/57 HR 1111 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 14.5 STG F WSPD 15 DIR 180 WEA 03 SEA 2 BAR 01 DRY 45.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.35 | 27.841 | 21.64 | 0.526 | 5.89 | 89 | 2.39 | 5 |
| 2 | 8.39 | 27.849 | 21.64 | 0.504 | 5.64 | 85 | 2.44 | 5 |
| 5 | 8.60 | 28.318 | 21.98 | 0.396 | 4.44 | 67 | 2.44 | 7 |
| 10 | 8.77 | 28.688 | 22.25 | 0.465 | 5.21 | 80 | 2.54 | 4 |
| 15 | 8.90 | 28.973 | 22.45 | 0.466 | 5.22 | 80 | 2.58 | 5 |
| 20 | 8.94 | 29.015 | 22.48 | 0.480 | 5.38 | 83 | 2.58 | 4 |

CRUISE PSO 07 STATION 004 HUNTER POINT

DATE 12/27/57 HR 1145 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 13.6 STG F WSPD 15 DIR 160 WEA 60 SEA 3 BAR 01 DRY 45.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.44 | 27.935 | 21.71 | --- | --- | --- | 2.42 | 4 |
| 2 | 8.53 | 28.217 | 21.91 | --- | --- | --- | 2.50 | 4 |
| 5 | 8.38 | 28.372 | 22.05 | --- | --- | --- | 2.53 | 4 |
| 10 | 8.76 | 29.136 | 22.60 | --- | --- | --- | 2.54 | 6 |
| 15 | 8.96 | 29.146 | 22.57 | --- | --- | --- | 2.57 | 3 |

CRUISE PSO 07 STATION 005 BURNS POINT

DATE 12/27/57 HR 1311 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 1.3 STG F WSPD 09 DIR 160 WEA 03 SEA 1 BAR 00 DRY 46.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.70 | 23.152 | 18.07 | 0.555 | 6.22 | 89 | 2.42 | 5 |
| 1 | 8.02 | 25.417 | 19.80 | 0.499 | 5.59 | 82 | 2.58 | 5 |
| 2 | 8.14 | 26.849 | 20.90 | 0.499 | 5.59 | 83 | 2.46 | 5 |
| 4 | 8.46 | 27.643 | 21.47 | 0.495 | 5.54 | 84 | 2.57 | 4 |

CRUISE PSO 07 STATION 006 NEW KAMILCHE

DATE 12/27/57 HR 1336 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 08.7 STG F WSPD 12 DIR 160 WEA 03 SEA 1 BAR 00 DRY 46.0
 CL * AMT * SCI 02 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.08 | 26.576 | 20.69 | 0.525 | 5.88 | 87 | 2.63 | 5 |
| 2 | 8.09 | 26.605 | 20.71 | 0.530 | 5.94 | 88 | 2.54 | 6 |
| 4 | 8.12 | 26.838 | 20.89 | 0.509 | 5.70 | 85 | 2.58 | 4 |
| 7 | 8.46 | 27.795 | 21.59 | 0.483 | 5.41 | 82 | 2.61 | 4 |
| 10 | 8.50 | 27.910 | 21.68 | 0.470 | 5.26 | 80 | 2.50 | 4 |
| 15 | 8.54 | 27.986 | 21.73 | 0.498 | 5.58 | 85 | 2.73 | 3 |

CRUISE PSO 07 STATION 007 WINDY PT. NE OF

DATE 12/27/57 HR 1411 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 07.3 STG F WSPD 14 DIR 180 WEA 61 SEA 2 BAR 00 DRY 46.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.99 | 26.636 | 20.75 | 0.494 | 5.53 | 82 | 2.47 | 5 |
| 2 | 8.08 | 26.948 | 20.98 | 0.515 | 5.77 | 86 | 2.57 | 5 |
| 5 | 8.01 | 27.464 | 21.40 | 0.472 | 5.29 | 79 | 2.57 | 5 |
| 10 | 8.25 | 27.663 | 21.52 | 0.454 | 5.08 | 76 | 2.62 | 4 |
| 20 | 8.53 | 28.056 | 21.79 | 0.475 | 5.32 | 81 | 2.64 | 7 |
| 30 | 8.22 | 27.957 | 21.75 | 0.441 | 4.94 | 74 | 2.43 | 7 |

CRUISE 7SO 07 STATION 008 ARCADIA

DATE 12/27/57 HR 1437 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 06.4 STG F WSPD 13 DIR 180 WEA 61 SEA 1 BAR 00 DRY 47.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.11 | 27.033 | 21.05 | 0.496 | 5.56 | 83 | 2.60 | 5 |
| 2 | 8.12 | 27.033 | 21.04 | 0.492 | 5.51 | 82 | 2.63 | 6 |
| 5 | 8.20 | 27.221 | 21.18 | 0.489 | 5.48 | 82 | 2.67 | 5 |
| 10 | 8.22 | 27.307 | 21.25 | 0.509 | 5.70 | 85 | 2.61 | 7 |

CRUISE PSO 07 STATION 009 CHURCH POINT, W OF

DATE 12/27/57 HR 1538 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 05.6 STG F WSPD 00 DIR WEA 61 SEA 0 BAR 00 DRY 48.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.46 | 21.510 | 16.81 | 0.555 | 6.22 | 88 | 2.26 | 6 |
| 2 | 7.47 | 23.387 | 18.28 | 0.525 | 5.88 | 84 | 2.47 | 5 |
| 4 | 7.75 | 23.657 | 18.46 | 0.518 | 5.80 | 84 | 2.32 | 5 |
| 7 | 7.78 | 23.955 | 18.68 | 0.541 | 6.06 | 88 | 2.43 | 4 |
| 10 | 7.80 | 24.109 | 18.80 | 0.530 | 5.94 | 86 | 2.64 | 4 |

CRUISE PSO 07 STATION 010 SHELTON

DATE 12/27/57 HR 1610 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 04.8 STG F WSPD 00 DIR WEA 03 SEA 0 BAR 00 DRY 46.0
 CL * AMT * SCI 02 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.24 | 20.219 | 15.83 | 0.539 | 6.04 | 84 | 2.16 | 6 |
| 2 | 7.48 | 21.961 | 17.16 | 0.521 | 5.84 | 83 | 2.22 | 5 |
| 4 | 7.53 | 22.520 | 17.59 | 0.516 | 5.78 | 82 | 2.23 | 5 |
| 7 | 7.74 | 24.398 | 19.04 | 0.499 | 5.59 | 81 | -- | 4 |

CRUISE PSO 07 STATION 011 CHAPMAN COVE, NW OF

DATE 12/27/57 HR 1632 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 04.4 STG F WSPD 00 DIR WEA 03 SEA 0 BAR 00 DRY 46.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 6.98 | 18.098 | 14.19 | 0.570 | 6.38 | 87 | 2.01 | 6 |
| 1 | 7.45 | 20.508 | 16.03 | 0.543 | 6.08 | 85 | 2.28 | 6 |
| 2 | 7.58 | 22.484 | 17.56 | 0.518 | 5.80 | 83 | 2.21 | 5 |

CRUISE PSO 07 STATION 012 ARCADIA

DATE 12/28/57 HR 824 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 12.1 STG R WSPD 13 DIR 160 WEA 60 SEA 1 BAR 99 DRY 48.0
 CL * AMT * SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.00 | 25.903 | 20.18 | 0.466 | 5.22 | 77 | 2.60 | 6 |
| 2 | 8.14 | 26.614 | 20.71 | 0.472 | 5.29 | 79 | 2.59 | 4 |
| 5 | 8.19 | 27.132 | 21.11 | 0.470 | 5.26 | 79 | 2.65 | 5 |
| 10 | 8.27 | 27.318 | 21.25 | 0.451 | 5.05 | 76 | 2.80 | 4 |

CRUISE PSO 07 STATION 013 GRAHAM POINT

DATE 12/28/57 HR 902 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 13.2 STG R WSPD 17 DIR 180 WEA 60 SEA 1 BAR 99 DRY 48.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.22 | 27.379 | 21.30 | --.--- | --- | --- | 2.69 | 3 |
| 5 | 8.28 | 27.464 | 21.36 | --.--- | --- | --- | 2.73 | 4 |
| 10 | 8.27 | 27.365 | 21.28 | --.--- | --- | --- | 2.65 | 5 |
| 15 | 8.56 | 27.672 | 21.48 | --.--- | --- | --- | 2.66 | 3 |

CRUISE PSO 07 STATION 014 DOUGALL POINT

DATE 12/28/57 HR 956 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 14.2 STG R WSPD 12 DIR 180 WEA 03 SEA 1 BAR 99 DRY 49.0
 CL * AMT * SCI 05 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.42 | 28.471 | 22.13 | 0.546 | 6.12 | 93 | 2.66 | 5 |
| 5 | 8.48 | 28.912 | 22.46 | 0.539 | 6.04 | 92 | 2.72 | 5 |
| 10 | 8.47 | 28.979 | 22.52 | 0.539 | 6.04 | 92 | 2.76 | 4 |
| 15 | 8.48 | 29.222 | 22.70 | 0.524 | 5.87 | 90 | 2.63 | 4 |
| 25 | 8.72 | 29.300 | 22.73 | 0.514 | 5.76 | 88 | 2.61 | 4 |

CRUISE PSO 07 STATION 015 ROCKY POINT

DATE 12/28/57 HR 1037 ZN 08 LAT 47-21.3N LONG 122-48.8W AREA CSE
 TIDE HT 14.3 STG H WSPD 16 DIR 180 WEA 60 SEA 2 BAR 00 DRY 47.0
 CL * AMT * SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.72 | 27.403 | 21.39 | 0.583 | 6.53 | 97 | 2.44 | 4 |
| 2 | 7.74 | 27.446 | 21.42 | 0.583 | 6.53 | 97 | 2.63 | 4 |
| 5 | 7.98 | 28.072 | 21.87 | 0.574 | 6.43 | 96 | 2.64 | 4 |
| 10 | 8.24 | 28.661 | 22.30 | 0.557 | 6.24 | 94 | 2.56 | 3 |
| 15 | 8.34 | 28.796 | 22.39 | 0.549 | 6.15 | 93 | 2.61 | 4 |

CRUISE PSO 07 STATION 016 ALLYN

DATE 12/28/57 HR 1103 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 14.3 STG H WSPD 14 DIR 180 WEA 03 SEA 2 BAR 00 DRY 47.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|--------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.78 | 18.739 | 14.37 | 0.603 | 6.75 | 99 | --.--- | 4 |
| 1 | 9.77 | 22.277 | 17.12 | 0.615 | 6.89 | 103 | 2.35 | 5 |
| 2 | 9.64 | 25.246 | 19.44 | 0.583 | 6.53 | 100 | 2.46 | 5 |
| 5 | 9.73 | 27.430 | 21.12 | 0.554 | 6.20 | 96 | 2.61 | 4 |

CRUISE PSO 07 STATION 017 HERRON ISLAND

DATE 12/28/57 HR 1224 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 TIDE HT 13.0 STG F WSPD 19 DIR 250 WEA 01 SEA 3 BAR 02 DRY 50.0
 CL * AMT * SCI 06 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.88 | 29.300 | 22.71 | 0.501 | 5.61 | 87 | 2.65 | 5 |
| 5 | 8.90 | 29.327 | 22.72 | 0.480 | 5.38 | 83 | 2.58 | 4 |
| 10 | 8.85 | 29.327 | 22.73 | 0.412 | 4.61 | 71 | 2.62 | 3 |
| 20 | 8.87 | 29.394 | 22.78 | 0.489 | 5.48 | 84 | 2.47 | 6 |
| 30 | 9.25 | 29.692 | 22.96 | 0.472 | 5.29 | 82 | 2.59 | 4 |
| 50 | 9.42 | 29.903 | 23.10 | 0.467 | 5.23 | 82 | 2.64 | 5 |

CRUISE PSO 07 STATION 018 JOHNSON POINT, N OF

DATE 12/28/57 HR 1311 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 1.8 STG F WSPD 23 DIR 225 WEA 01 SEA 4 BAR 03 DRY 49.0
 CL * AMT * SCI 05 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.77 | 29.296 | 22.57 | 0.509 | 5.70 | 90 | 2.58 | 4 |
| 5 | 9.74 | 29.320 | 22.59 | 0.489 | 5.48 | 86 | 2.72 | 4 |
| 10 | 9.78 | 29.325 | 22.59 | 0.484 | 5.42 | 85 | 2.59 | 4 |
| 19 | 9.71 | 29.356 | 22.62 | 0.482 | 5.40 | 85 | 2.73 | 5 |
| 29 | 9.68 | 29.887 | 23.04 | 0.397 | 4.45 | 70 | 2.61 | 4 |
| 48 | 9.75 | 29.912 | 23.05 | 0.457 | 5.12 | 81 | 2.64 | 4 |
| 67 | 9.74 | 30.016 | 23.13 | 0.439 | 4.92 | 78 | 2.56 | 5 |

CRUISE PSO 07 STATION 019 WOODWARD CREEK

DATE 12/28/57 HR 1415 ZN 08 LAT 47-08.0N LONG 122-50.0W AREA HDR
 TIDE HT 07.5 STG F WSPD 12 DIR 270 WEA 01 SEA 1 BAR 05 DRY 48.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.74 | 27.360 | 21.21 | 0.500 | 5.60 | 85 | 2.65 | 5 |
| 1 | 8.77 | 27.367 | 21.22 | 0.502 | 5.62 | 85 | 2.61 | 7 |
| 2 | 8.78 | 28.152 | 21.83 | 0.507 | 5.68 | 87 | 2.58 | 4 |
| 5 | 9.14 | 29.419 | 22.76 | 0.456 | 5.11 | 79 | 2.74 | 6 |

CRUISE PSO 07 STATION 020 HENDERSON INLET, ENTRANCE

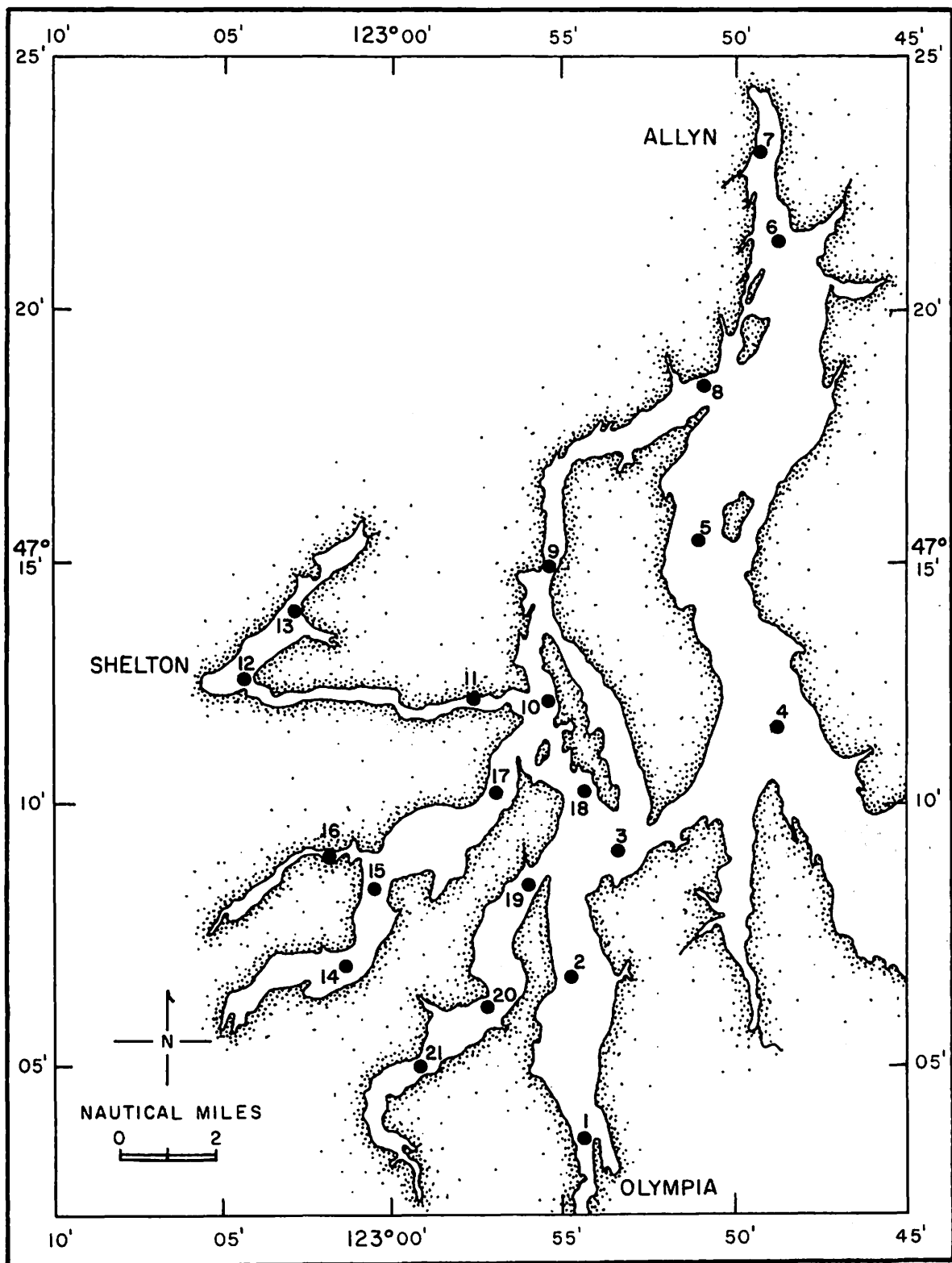
DATE 12/28/57 HR 1439 ZN 08 LAT 47-10.0N LONG 122-49.9W AREA HDR
 TIDE HT 06.4 STG F WSPD 14 DIR 250 WEA 01 SEA 1 BAR 05 DRY 48.0
 CL * AMT * SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.78 | 28.578 | 22.16 | 0.487 | 5.45 | 84 | 2.57 | 5 |
| 2 | 8.80 | 28.623 | 22.19 | 0.441 | 4.94 | 76 | 2.61 | 4 |
| 4 | 8.88 | 28.816 | 22.33 | 0.464 | 5.20 | 80 | 2.59 | 4 |
| 7 | 9.09 | 29.341 | 22.71 | 0.437 | 4.89 | 76 | 2.65 | 4 |
| 10 | 9.22 | 29.554 | 22.85 | 0.444 | 4.97 | 77 | 2.58 | 6 |

CRUISE PSO 07 STATION 021 DOVER POINT

DATE 12/28/57 HR 1519 ZN 08 LAT 47-09.0N LONG 122-53.5W AREA DNA
 TIDE HT 05.1 STG F WSPD 14 DIR 250 WEA 01 SEA 2 BAR 06 DRY 48.0
 CL * AMT * SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.73 | 28.172 | 21.85 | 0.480 | 5.38 | 82 | 2.61 | 5 |
| 5 | 8.80 | 28.275 | 21.92 | 0.504 | 5.64 | 86 | 2.65 | 4 |
| 10 | 8.80 | 28.127 | 21.80 | 0.435 | 4.87 | 74 | 2.63 | 5 |
| 20 | 8.96 | 28.502 | 22.07 | 0.511 | 5.72 | 88 | 2.64 | 5 |
| 30 | 9.06 | 29.024 | 22.47 | 0.481 | 5.39 | 83 | 2.66 | 4 |
| 50 | 9.13 | 29.374 | 22.73 | 0.444 | 4.97 | 77 | 2.91 | 3 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-08 25-26 JAN. 1958

CRUISE PSO 08 STATION 001 BUDD INLET BUOY NO 12

DATE 01/25/58 HR 745 ZN 08 LAT 47-03.6N LONG 122-54.4W AREA BUD
 TIDE HT 13.5 STG R WSPD 05 DIR 180 WEA 60 SEA 1 BAR 02 DRY 49.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.06 | 20.589 | 16.02 | 0.512 | 5.73 | 82 | -.-- | 4 |
| 2 | 8.52 | 28.226 | 21.92 | 0.451 | 5.05 | 77 | -.-- | 6 |
| 4 | 8.51 | 28.554 | 22.18 | 0.299 | 3.35 | 51 | -.-- | 6 |
| 7 | 8.56 | 28.578 | 22.19 | 0.218 | 2.44 | 37 | -.-- | 5 |
| 10 | 8.56 | 28.632 | 22.23 | 0.149 | 1.67 | 25 | -.-- | 5 |

CRUISE PSO 08 STATION 002 GULL HARBOR

DATE 01/25/58 HR 847 ZN 08 LAT 46-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 14.5 STG H WSPD 05 DIR 180 WEA 01 SEA 1 BAR 02 DRY 46.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.16 | 26.022 | 20.25 | 0.492 | 5.51 | 81 | -.-- | 5 |
| 2 | 8.28 | 27.096 | 21.07 | 0.513 | 5.75 | 86 | -.-- | 4 |
| 5 | 8.53 | 28.526 | 22.15 | 0.485 | 5.43 | 83 | -.-- | 5 |
| 10 | 8.59 | 28.784 | 22.35 | 0.486 | 5.44 | 82 | -.-- | 5 |
| 15 | 8.61 | 28.892 | 22.43 | 0.486 | 5.44 | 83 | -.-- | 5 |

CRUISE PSO 08 STATION 003 DOVER POINT

DATE 01/25/58 HR 923 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 14.4 STG H WSPD 05 DIR 150 WEA 00 SEA 1 BAR 03 DRY 53.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.54 | 28.607 | 22.22 | 0.488 | 5.47 | 83 | -.-- | 5 |
| 5 | 8.59 | 28.823 | 22.38 | 0.483 | 5.41 | 83 | -.-- | 5 |
| 10 | 8.56 | 28.859 | 22.41 | 0.472 | 5.29 | 81 | -.-- | 5 |
| 20 | 8.60 | 28.885 | 22.42 | 0.472 | 5.29 | 81 | -.-- | 5 |
| 30 | 8.59 | 28.937 | 22.47 | 0.465 | 5.21 | 79 | -.-- | 6 |
| 50 | 8.64 | 29.029 | 22.53 | 0.478 | 5.35 | 82 | -.-- | 4 |

CRUISE PSO 08 STATION 004 JOHNSON POINT, N OF

DATE 01/25/58 HR 1013 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 13.7 STG F WSPD 05 DIR 180 WEA 03 SEA 1 BAR 04 DRY 48.
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.56 | 28.802 | 22.36 | 0.451 | 5.05 | 77 | -.-- | 4 |
| 5 | 8.64 | 28.964 | 22.48 | 0.423 | 4.74 | 72 | -.-- | 4 |
| 10 | 8.62 | 29.074 | 22.57 | 0.377 | 4.22 | 65 | -.-- | 5 |
| 20 | 8.72 | 29.264 | 22.70 | 0.350 | 3.92 | 60 | -.-- | 5 |
| 30 | 8.74 | 29.448 | 22.84 | -.--- | -.--- | -.--- | -.-- | 5 |
| 50 | 8.78 | 29.397 | 22.80 | 0.349 | 3.91 | 60 | -.-- | 6 |
| 70 | 8.80 | 29.507 | 22.88 | 0.346 | 3.88 | 60 | -.-- | 4 |

CRUISE PSO 08 STATION 005 HERRON ISLAND

DATE 01/25/58 HR 1109 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 TIDE HT 12.0 STG F WSPD 05 DIR 180 WEA 00 SEA 2 BAR 04 DRY 56.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.34 | 28.484 | 22.15 | 0.522 | 5.85 | 88 | --- | 3 |
| 5 | 8.42 | 28.749 | 22.34 | 0.507 | 5.68 | 86 | --- | 6 |
| 10 | 8.42 | 28.847 | 22.42 | 0.508 | 5.69 | 87 | --- | 2 |
| 20 | 8.59 | 29.035 | 22.54 | 0.495 | 5.54 | 85 | --- | 6 |
| 30 | 8.70 | 29.285 | 22.72 | 0.473 | 5.30 | 81 | --- | 3 |
| 50 | 8.76 | 29.421 | 22.82 | 0.466 | 5.22 | 80 | --- | 6 |

CRUISE PSO 08 STATION 006 ROCKY POINT

DATE 01/25/58 HR 1212 ZN 08 LAT 47-21.3N LONG 122-48.8W AREA CSE
 TIDE HT 09.7 STG F WSPD 05 DIR 180 WEA 00 SEA 1 BAR 05 DRY 55.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.06 | 26.730 | 20.82 | 0.547 | 6.13 | 91 | --- | 5 |
| 2 | 8.03 | 26.762 | 20.84 | 0.550 | 6.16 | 92 | --- | 4 |
| 5 | 8.22 | 28.239 | 21.97 | 0.505 | 5.66 | 85 | --- | 5 |
| 10 | 8.38 | 28.583 | 22.22 | 0.505 | 5.66 | 86 | --- | 5 |
| 15 | 8.53 | 28.896 | 22.44 | 0.472 | 5.29 | 81 | --- | 6 |

CRUISE PSO 08 STATION 007 ALLYN

DATE 01/25/58 HR 1238 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 08.6 STG F WSPD 04 DIR 160 WEA 00 SEA 1 BAR 05 DRY 52.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.92 | 15.012 | 11.69 | 0.626 | 7.01 | 96 | 2.07 | 5 |
| 2 | 8.05 | 27.452 | 21.38 | 0.516 | 5.78 | 86 | 2.91 | 5 |
| 4 | 8.23 | 28.258 | 21.99 | 0.495 | 5.54 | 83 | 2.91 | 6 |

CRUISE PSO 08 STATION 008 DOUGALL POINT

DATE 01/25/58 HR 1341 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 06.3 STG F WSPD 04 DIR 180 WEA 02 SEA 1 BAR 05 DRY 59.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.57 | 27.804 | 21.58 | 0.515 | 5.77 | 87 | 2.82 | 5 |
| 5 | 8.33 | 28.186 | 21.92 | 0.515 | 5.77 | 87 | 2.68 | 4 |
| 10 | 8.38 | 28.488 | 22.14 | 0.500 | 5.60 | 85 | 2.96 | 4 |
| 15 | 8.48 | 28.751 | 22.34 | 0.496 | 5.56 | 84 | 2.97 | 2 |
| 25 | 8.62 | 29.026 | 22.53 | 0.476 | 5.33 | 82 | 3.10 | 5 |

CRUISE PSO 08 STATION 009 GRAHAM POINT

DATE 01/25/58 HR 1446 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 04.7 STG F WSPD 02 DIR WEA 03 SEA 1 BAR 06 DRY 52.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.33 | 26.955 | 20.96 | 0.512 | 5.73 | 86 | 2.54 | 5 |
| 5 | 8.33 | 27.262 | 21.20 | 0.508 | 5.69 | 85 | 2.74 | 5 |
| 10 | 8.33 | 27.361 | 21.27 | 0.510 | 5.71 | 86 | 2.83 | 7 |
| 15 | 8.32 | 27.480 | 21.37 | 0.507 | 5.68 | 85 | 2.67 | 6 |

CRUISE PSO 08 STATION 010 ARCADIA

DATE 01/25/58 HR 1521 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 04.2 STG L WSPD 05 DIR 160 WEA 10 SEA 1 BAR 06 DRY 52.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.16 | 24.831 | 19.32 | 0.522 | 5.85 | 85 | 2.16 | 5 |
| 2 | 8.24 | 25.426 | 19.77 | 0.523 | 5.86 | 87 | 2.25 | 5 |
| 5 | 8.28 | 25.758 | 20.03 | 0.525 | 5.88 | 87 | 2.22 | 5 |
| 10 | 8.34 | 26.513 | 20.61 | 0.530 | 5.94 | 89 | 2.39 | 5 |

CRUISE PSO 08 STATION 011 CHURCH POINT, W OF

DATE 01/25/58 HR 1613 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 03.8 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 53.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.95 | 21.130 | 16.46 | 0.529 | 5.92 | 85 | 2.10 | 6 |
| 2 | 7.93 | 22.511 | 17.54 | 0.519 | 5.81 | 84 | 2.20 | 6 |
| 4 | 7.90 | 23.098 | 18.00 | 0.519 | 5.81 | 84 | 2.19 | 5 |
| 7 | 7.90 | 23.116 | 18.02 | 0.518 | 5.80 | 84 | 2.56 | 7 |
| 10 | 7.90 | 23.152 | 18.04 | 0.518 | 5.80 | 84 | 2.38 | 4 |

CRUISE PSO 08 STATION 012 SHELTON

DATE 01/25/58 HR 1640 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 03.6 STG L WSPD 00 DIR WEA 02 SEA 0 BAR 05 DRY 50.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.96 | 18.603 | 14.49 | 0.544 | 6.09 | 86 | 1.91 | 6 |
| 2 | 7.85 | 21.022 | 16.39 | 0.524 | 5.87 | 83 | 2.15 | 7 |
| 4 | 7.79 | 21.798 | 17.00 | 0.520 | 5.82 | 83 | 2.14 | 5 |
| 7 | 7.84 | 23.152 | 18.05 | 0.514 | 5.76 | 83 | 2.34 | 6 |

CRUISE PSO 08 STATION 013 CHAPMAN COVE, NW OF

DATE 01/25/58 HR 1703 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 03.5 STG L WSPD 03 DIR 020 WEA 03 SEA 1 BAR 04 DRY 49.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.88 | 16.546 | 12.89 | 0.536 | 6.00 | 83 | 1.55 | 7 |
| 1 | 7.83 | 20.102 | 15.67 | 0.525 | 5.88 | 83 | 1.86 | 5 |
| 2 | 7.75 | 21.239 | 16.57 | 0.519 | 5.81 | 83 | 2.15 | 7 |

CRUISE PSO 08 STATION 014 BURNS POINT

DATE 01/26/58 HR 820 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 13.7 STG F WSPD 04 DIR 200 WEA 03 SEA 1 BAR 02 DRY 38.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.13 | 25.065 | 19.51 | 0.524 | 5.87 | 86 | 2.30 | 5 |
| 1 | 8.23 | 26.522 | 20.63 | 0.512 | 5.73 | 85 | 2.45 | 5 |
| 2 | 8.18 | 26.782 | 20.84 | 0.507 | 5.68 | 85 | 2.25 | 5 |
| 4 | 8.18 | 27.159 | 21.13 | 0.503 | 5.63 | 84 | 2.44 | 6 |

CRUISE PSO 08 STATION 015 NEW KAMILCHE

DATE 01/26/58 HR 848 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 14.1 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 02 DRY 38.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.98 | 25.851 | 20.14 | 0.524 | 5.87 | 86 | 2.28 | 4 |
| 2 | 8.21 | 26.215 | 20.39 | 0.519 | 5.81 | 86 | 2.22 | 5 |
| 4 | 8.18 | 26.874 | 20.91 | 0.510 | 5.71 | 85 | 2.38 | 4 |
| 7 | 8.18 | 27.058 | 21.06 | 0.510 | 5.71 | 85 | 2.41 | 5 |
| 12 | 8.20 | 27.269 | 21.22 | 0.508 | 5.69 | 85 | 2.45 | 5 |

CRUISE PSO 08 STATION 016 SKOOKUM INLET, ENTRANCE

DATE 01/26/58 HR 913 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 14.3 STG H WSPD 05 DIR 225 WEA 02 SEA 1 BAR 02 DRY 38.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.02 | 26.562 | 20.69 | 0.514 | 5.76 | 85 | 2.51 | 5 |
| 1 | 8.06 | 26.569 | 20.69 | 0.511 | 5.72 | 85 | 2.37 | 6 |
| 2 | 8.08 | 26.686 | 20.78 | 0.509 | 5.70 | 85 | 2.68 | 6 |

CRUISE PSO 08 STATION 017 WINDY PT, NE OF

DATE 01/26/58 HR 955 ZN 08 LAT 47-10.3N LONG 122-57.1W AREA TOT
 TIDE HT 14.2 STG F WSPD 06 DIR 360 WEA 01 SEA * BAR 02 DRY 54.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.28 | 27.331 | 21.26 | 0.512 | 5.73 | 86 | 2.44 | 5 |
| 2 | 8.30 | 27.332 | 21.25 | 0.511 | 5.72 | 86 | 2.45 | 5 |
| 5 | 8.29 | 27.374 | 21.29 | 0.513 | 5.75 | 86 | 2.52 | 5 |
| 10 | 8.29 | 27.421 | 21.32 | 0.507 | 5.68 | 85 | 2.56 | 5 |
| 20 | 8.32 | 27.576 | 21.44 | 0.509 | 5.70 | 86 | 2.48 | 6 |
| 30 | 8.32 | 27.589 | 21.45 | 0.508 | 5.69 | 86 | 2.56 | 5 |

CRUISE PSO 08 STATION 018 HUNTER POINT

DATE 01/26/58 HR 1027 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 13.7 STG F WSPD 03 DIR 225 WEA 00 SEA 1 BAR 02 DRY 44.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.36 | 28.184 | 21.91 | 0.506 | 5.67 | 86 | 2.75 | 5 |
| 2 | 8.51 | 28.572 | 22.19 | 0.498 | 5.58 | 85 | 2.75 | 6 |
| 5 | 8.52 | 28.675 | 22.27 | 0.494 | 5.53 | 84 | 2.96 | 6 |
| 10 | 8.56 | 28.767 | 22.34 | 0.490 | 5.49 | 84 | 2.68 | 5 |
| 15 | 8.57 | 28.807 | 22.37 | 0.489 | 5.48 | 84 | 2.68 | 5 |

CRUISE PSO 08 STATION 019 COOPER POINT, SW OF

DATE 01/26/58 HR 1051 ZN 08 LAT 47-08.2N LONG 122-56.3W AREA ELD
 TIDE HT 13.2 STG F WSPD 04 DIR 200 WEA * SEA 1 BAR 02 DRY 52.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.32 | 27.775 | 21.60 | 0.502 | 5.62 | 85 | 2.56 | 5 |
| 5 | 8.54 | 28.473 | 22.11 | 0.313 | 3.51 | 53 | 2.75 | 5 |
| 10 | 8.52 | 28.627 | 22.23 | 0.444 | 4.97 | 76 | 2.59 | 5 |
| 15 | 8.57 | 28.720 | 22.30 | 0.420 | 4.70 | 72 | 2.67 | 5 |
| 25 | 8.56 | 28.787 | 22.35 | 0.425 | 4.76 | 73 | 2.60 | 4 |

CRUISE PSO 08 STATION 020 FLAPJACK POINT

DATE 01/26/58 HR 1125 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 12.1 STG F WSPD 03 DIR 135 WEA 00 SEA 1 BAR 02 DRY 46.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

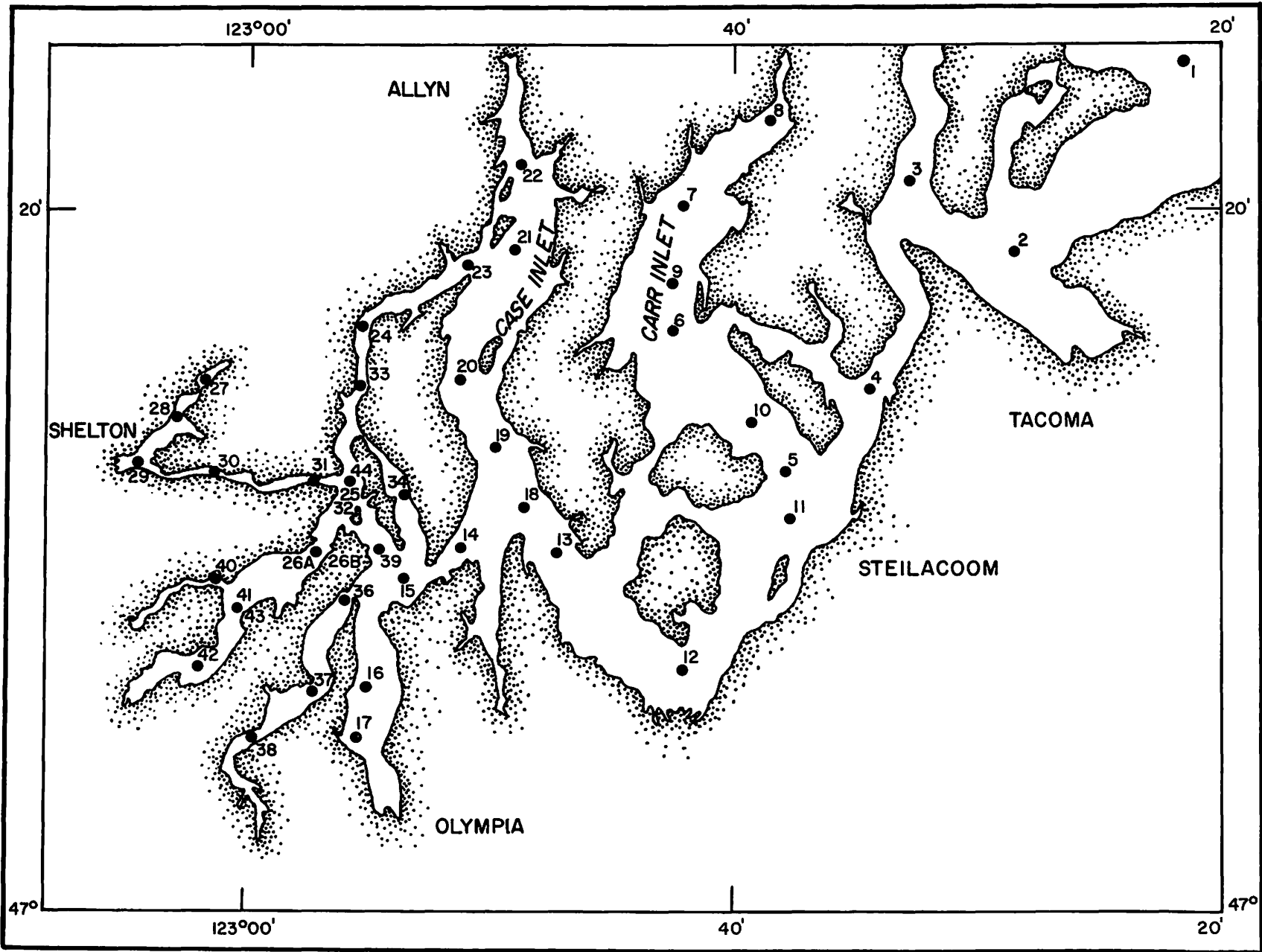
| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.09 | 26.702 | 20.79 | 0.476 | 5.33 | 79 | 2.56 | 4 |
| 2 | 8.48 | 27.432 | 21.31 | 0.525 | 5.88 | 89 | 2.33 | 5 |
| 4 | 8.45 | 27.924 | 21.70 | 0.513 | 5.75 | 87 | 2.24 | 5 |
| 7 | 8.44 | 28.323 | 22.01 | 0.498 | 5.58 | 85 | 2.58 | 5 |
| 12 | 8.46 | 28.542 | 22.18 | 0.484 | 5.42 | 82 | 2.67 | 5 |

CRUISE PSO 08 STATION 021 ELD INLET, HEAD OF

DATE 01/26/58 HR 1151 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.4 STG F WSPD 00 DIR WEA 00 SEA 0 BAR 04 DRY 54.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.28 | 24.289 | 18.88 | 0.520 | 5.82 | 86 | 2.26 | 7 |
| 1 | 8.61 | 27.453 | 21.31 | 0.517 | 5.79 | 88 | 2.44 | 6 |
| 2 | 8.48 | 27.858 | 21.64 | 0.506 | 5.67 | 86 | 2.60 | 4 |
| 4 | 8.45 | 28.168 | 21.89 | 0.484 | 5.42 | 82 | 2.68 | 6 |
| 7 | 8.42 | 28.228 | 21.94 | 0.491 | 5.50 | 83 | 2.83 | 6 |
| 10 | 8.48 | 28.305 | 21.99 | 0.476 | 5.33 | 81 | 2.83 | 4 |

OCEANOGRAPHIC STATION LOCATIONS
BB 187 10-14 FEB. 1958



CRUISE BB187 STATION 001 POINT VASHON

DATE 02/10/58 HR 1156 ZN 08 LAT 47-30.7N LONG 122-29.1W AREA CLV
 SDG 109M TIDE HT 8.1 STG F WSPD 04 DIR 18 WEA 1 SEA 1 BAR 24
 DRY 50.0 WET 47.5 RELHU 84 CL 5 AMT 5 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.82 | 29.397 | 22.79 | 0.500 | 5.60 | 86 | 2.71 | 5 |
| 5 | 8.82 | 29.466 | 22.84 | 0.500 | 5.60 | 86 | 2.74 | 4 |
| 10 | 8.78 | 29.432 | 22.82 | 0.500 | 5.60 | 86 | 3.04 | 4 |
| 20 | 8.76 | 29.430 | 22.83 | 0.481 | 5.39 | 83 | 2.72 | 5 |
| 30 | 8.74 | 29.448 | 22.84 | 0.468 | 5.24 | 81 | 2.53 | 5 |
| 50 | 8.73 | 29.448 | 22.84 | 0.499 | 5.59 | 86 | 2.67 | 4 |
| 75 | 8.72 | 29.448 | 22.85 | 0.490 | 5.49 | 84 | 2.62 | 5 |
| 100 | 8.69 | 29.527 | 22.91 | 0.488 | 5.47 | 84 | 2.66 | 5 |

CRUISE BB187 STATION 002 BROWN POINT

DATE 02/10/58 HR 1413 ZN 08 LAT 47-19.3N LONG 122-28.0W AREA PSB
 SDG 171M TIDE HT 2.8 STG F WSPD 05 DIR 21 WEA 1 SEA 1 BAR 24
 DRY 52.5 WET 48.5 RELHU 75 CL 5 AMT 5 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.92 | 29.053 | 22.51 | 0.514 | 5.76 | 89 | 2.64 | 5 |
| 5 | 8.83 | 29.285 | 22.70 | 0.506 | 5.67 | 87 | 2.58 | 6 |
| 10 | 8.78 | 29.358 | 22.77 | 0.502 | 5.62 | 87 | 2.65 | 4 |
| 20 | 8.76 | 29.323 | 22.74 | 0.495 | 5.54 | 85 | 2.64 | 4 |
| 30 | 8.73 | 29.535 | 22.91 | 0.491 | 5.50 | 85 | 2.65 | 5 |
| 50 | 8.76 | 29.549 | 22.92 | 0.491 | 5.50 | 85 | 2.59 | 5 |
| 75 | 8.74 | 29.594 | 22.96 | 0.490 | 5.49 | 84 | 2.80 | 5 |
| 100 | 8.78 | 29.845 | 23.15 | 0.488 | 5.47 | 84 | 2.80 | 4 |
| 130 | 8.80 | 29.809 | 23.12 | 0.478 | 5.35 | 83 | 3.03 | 4 |
| 160 | 8.78 | 29.914 | 23.20 | 0.475 | 5.32 | 82 | 2.80 | 5 |

CRUISE BB187 STATION 003 SPRING BEACH

DATE 02/10/58 HR 1505 ZN 08 LAT 47-21.0N LONG 122-14.9W AREA CLV
 SDG 093M TIDE HT 1.6 STG F WSPD 04 DIR 01 WEA 1 SEA 1 BAR 24
 DRY 52.5 WET 48.5 RELHU 75 CL 5 AMT 5 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.72 | 29.294 | 22.73 | 0.499 | 5.59 | 86 | 2.65 | 4 |
| 5 | 8.74 | 29.287 | 22.72 | 0.500 | 5.60 | 86 | 2.73 | 5 |
| 10 | 8.74 | 29.322 | 22.74 | 0.497 | 5.57 | 86 | 2.74 | 5 |
| 20 | 8.74 | 29.271 | 22.70 | 0.500 | 5.60 | 86 | 2.71 | 6 |
| 30 | 8.75 | 29.331 | 22.75 | 0.500 | 5.60 | 86 | 2.78 | 4 |
| 50 | 8.76 | 29.320 | 22.74 | 0.498 | 5.58 | 86 | 2.76 | 4 |
| 75 | 8.74 | 29.358 | 22.77 | 0.495 | 5.54 | 85 | 2.89 | 4 |
| 95 | 8.78 | 29.401 | 22.80 | 0.494 | 5.53 | 85 | 2.88 | 5 |

CRUISE BB187 STATION 004 DAY ISLAND

DATE 02/10/58 HR 1637 ZN 08 LAT 47-14.9N LONG 122-34.2W AREA NRR
 SDG 073M TIDE HT 0.9 STG L WSPD 00 DIR WEA 1 SEA 0 BAR 24
 DRY 61.0 WET 55.0 RELHU 68 CL 6 AMT 1 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.83 | 28.822 | 22.34 | 0.504 | 5.64 | 87 | 2.73 | 3 |
| 5 | 8.74 | 29.098 | 22.57 | 0.486 | 5.44 | 84 | 2.67 | 5 |
| 10 | 8.74 | 29.116 | 22.58 | 0.488 | 5.47 | 84 | 2.65 | 5 |
| 20 | 8.73 | 29.188 | 22.64 | 0.495 | 5.54 | 85 | 2.66 | 5 |
| 30 | 8.70 | 29.251 | 22.69 | 0.495 | 5.54 | 85 | 2.80 | 5 |
| 50 | 8.74 | 29.307 | 22.73 | 0.443 | 4.96 | 76 | 2.82 | 4 |

CRUISE BB187 STATION 005 GIBSON POINT, SW OF

DATE 02/10/58 HR 1737 ZN 08 LAT 47-12.8N LONG 122-37.2W AREA CRR
 SDG 159M TIDE HT 1.2 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 24
 DRY 49.0 WET 48.0 RELHU 93 CL 6 AMT 1 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.74 | 29.174 | 22.63 | 0.519 | 5.81 | 89 | 2.53 | 4 |
| 5 | 8.72 | 29.188 | 22.64 | 0.519 | 5.81 | 89 | 2.54 | 4 |
| 10 | 8.72 | 29.188 | 22.64 | 0.506 | 5.67 | 87 | 2.61 | 5 |
| 20 | 8.72 | 29.192 | 22.65 | 0.503 | 5.63 | 86 | 2.61 | 5 |
| 30 | 8.70 | 29.231 | 22.68 | 0.499 | 5.59 | 86 | 2.57 | 6 |
| 40 | 8.73 | 29.267 | 22.70 | 0.497 | 5.57 | 86 | 2.65 | 5 |
| 50 | 8.68 | 29.284 | 22.72 | 0.496 | 5.56 | 85 | 2.82 | 5 |
| 75 | 8.70 | 29.309 | 22.74 | 0.493 | 5.52 | 85 | 2.61 | 6 |
| 100 | 8.70 | 29.307 | 22.74 | 0.500 | 5.60 | 86 | 2.61 | 3 |
| 130 | 8.71 | 29.376 | 22.79 | 0.493 | 5.52 | 85 | 2.53 | 5 |
| 150 | 8.76 | 29.414 | 22.81 | 0.495 | 5.54 | 85 | 2.57 | 5 |

CRUISE BB187 STATION 006 SOUTH HEAD

DATE 02/10/58 HR 1839 ZN 08 LAT 47-15.8N LONG 122-41.7W AREA CRR
 SDG 089M TIDE HT 2.4 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 24
 DRY 46.0 WET 45.0 RELHU 93 CL 6 AMT 1 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.71 | 29.183 | 22.64 | 0.516 | 5.78 | 89 | 2.54 | 4 |
| 5 | 8.74 | 29.210 | 22.66 | 0.515 | 5.77 | 89 | 2.31 | 4 |
| 10 | 8.66 | 29.213 | 22.67 | 0.516 | 5.78 | 89 | 2.55 | 4 |
| 20 | 8.66 | 29.242 | 22.69 | 0.510 | 5.71 | 88 | 2.61 | 5 |
| 30 | 8.65 | 29.239 | 22.69 | 0.509 | 5.70 | 87 | 2.57 | 4 |
| 40 | 8.72 | 29.285 | 22.72 | 0.506 | 5.67 | 87 | 2.64 | 5 |
| 50 | 8.66 | 29.302 | 22.74 | 0.502 | 5.62 | 86 | 2.61 | 5 |
| 75 | 8.65 | 29.316 | 22.75 | 0.502 | 5.62 | 86 | 2.65 | 5 |

CRUISE BB187 STATION 007 GLEN COVE, E OF

DATE 02/10/58 HR 1938 ZN 08 LAT 47-20.6N LONG 122-41.7W AREA CRR
 SDG 054M TIDE HT 4.5 STG R WSPD 04 DIR 01 WEA SEA 1 BAR 25
 DRY 43.9 WET 43.5 RELHU 97 CL * AMT * SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.26 | 27.394 | 21.31 | 0.577 | 6.46 | 97 | 2.49 | 4 |
| 5 | 8.66 | 29.080 | 22.57 | 0.550 | 6.16 | 94 | 2.57 | 2 |
| 10 | 8.67 | 29.074 | 22.56 | 0.539 | 6.04 | 92 | 2.65 | 4 |
| 20 | 8.66 | 29.081 | 22.57 | 0.537 | 6.01 | 92 | 2.72 | 4 |
| 30 | 8.65 | 29.136 | 22.61 | 0.524 | 5.87 | 90 | 2.69 | 5 |
| 40 | 8.70 | 29.210 | 22.66 | 0.506 | 5.67 | 87 | 2.73 | 3 |
| 50 | 8.62 | 29.258 | 22.71 | 0.521 | 5.84 | 89 | 2.65 | 4 |

CRUISE BB187 STATION 008 WAUNA

DATE 02/10/58 HR 2019 ZN 08 LAT 47-22.5N LONG 122-38.1W AREA CRR
 SDG 014M TIDE HT 6.3 STG R WSPD 06 DIR 04 WEA 2 SEA 1 BAR 24
 DRY 42.0 WET 42.0 RELHU 99 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.78 | 27.439 | 21.27 | 0.565 | 6.33 | 96 | 2.58 | 5 |
| 2 | 8.84 | 28.607 | 22.17 | 0.559 | 6.26 | 96 | 2.61 | 5 |
| 6 | 8.66 | 28.948 | 22.46 | 0.547 | 6.13 | 94 | 2.68 | 5 |
| 10 | 8.66 | 28.973 | 22.48 | 0.551 | 6.17 | 94 | 2.65 | 5 |

CRUISE BB187 STATION 009 GREEN POINT

DATE 02/10/58 HR 2123 ZN 08 LAT 47-16.9N LONG 122-42.3W AREA CRR
 SDG 109M TIDE HT 9.0 STG R WSPD 06 DIR 01 WEA 2 SEA 1 BAR 24
 DRY 44.0 WET 43.5 RELHU 96 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.68 | 29.184 | 22.65 | 0.520 | 5.82 | 89 | 2.57 | 5 |
| 5 | 8.71 | 29.195 | 22.65 | 0.517 | 5.79 | 89 | 2.55 | 5 |
| 10 | 8.72 | 29.195 | 22.65 | 0.516 | 5.78 | 89 | 2.55 | 3 |
| 20 | 8.65 | 29.217 | 22.68 | 0.509 | 5.70 | 87 | 2.61 | 5 |
| 30 | 8.68 | 29.242 | 22.69 | 0.501 | 5.61 | 86 | 2.64 | 5 |
| 50 | 8.72 | 29.285 | 22.72 | 0.501 | 5.61 | 86 | 2.55 | 6 |
| 70 | 8.66 | 29.260 | 22.71 | 0.502 | 5.62 | 86 | 2.78 | 4 |
| 90 | 8.65 | 29.266 | 22.71 | 0.501 | 5.61 | 86 | 2.73 | 5 |

CRUISE BB187 STATION 010 STILL HARBOR

DATE 02/10/58 HR 2216 ZN 08 LAT 47-14.0N LONG 122-39.3W AREA CRR
 SDG 122M TIDE HT 10.4 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 23
 DRY 44.0 WET 43.0 RELHU 93 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.76 | 29.116 | 22.58 | 0.536 | 6.00 | 92 | 2.14 | 4 |
| 5 | 8.74 | 29.143 | 22.60 | 0.531 | 5.95 | 91 | 2.59 | 5 |
| 10 | 8.74 | 29.152 | 22.61 | 0.528 | 5.91 | 91 | 2.49 | - |
| 20 | 8.68 | 29.190 | 22.65 | 0.520 | 5.82 | 89 | 2.65 | - |
| 30 | 8.66 | 29.242 | 22.69 | 0.513 | 5.75 | 88 | 2.69 | - |
| 60 | 8.70 | 29.323 | 22.75 | 0.502 | 5.62 | 86 | 2.58 | - |
| 90 | 8.68 | 29.349 | 22.77 | 0.499 | 5.59 | 86 | 2.55 | - |
| 120 | 8.70 | 29.316 | 22.75 | 0.490 | 5.49 | 84 | 2.73 | - |

CRUISE BB187 STATION 011 GORDON POINT

DATE 02/10/58 HR 2302 ZN 08 LAT 47-11.1N LONG 122-37.9W AREA NSQ
 SDG 169M TIDE HT 11.0 STG H WSPD 00 DIR WEA 2 SEA 0 BAR 23
 DRY 43.0 WET 43.0 RELHU 99 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.56 | 28.646 | 22.24 | 0.461 | 5.16 | 79 | 2.54 | 5 |
| 5 | 8.70 | 28.789 | 22.33 | 0.460 | 5.15 | 79 | 2.58 | 4 |
| 10 | 8.71 | 28.946 | 22.46 | 0.460 | 5.15 | 79 | 2.53 | 5 |
| 20 | 8.72 | 29.056 | 22.54 | 0.459 | 5.14 | 79 | 2.57 | 5 |
| 30 | 8.74 | 29.134 | 22.60 | 0.457 | 5.12 | 79 | 2.50 | 5 |
| 50 | 8.74 | 29.152 | 22.61 | 0.457 | 5.12 | 79 | 2.64 | 5 |
| 75 | 8.72 | 29.228 | 22.67 | 0.455 | 5.10 | 78 | 2.66 | 4 |
| 100 | 8.76 | 29.271 | 22.70 | 0.459 | 5.14 | 79 | 2.52 | 3 |
| 130 | 8.74 | 29.289 | 22.72 | 0.459 | 5.14 | 79 | 2.54 | 6 |
| 160 | 8.72 | 29.289 | 22.72 | 0.458 | 5.13 | 79 | 2.64 | 6 |

CRUISE BB187 STATION 012 NISQUALLY REACH

DATE 02/10/58 HR 2359 ZN 08 LAT 47-07.2N LONG 122-42.8W AREA NSQ
 SDG 059M TIDE HT 10.8 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 22
 DRY 42.0 WET 42.0 RELHU 99 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.62 | 28.621 | 22.21 | 0.450 | 5.04 | 77 | 2.73 | 6 |
| 10 | 8.68 | 29.116 | 22.59 | 0.455 | 5.10 | 78 | 2.64 | 4 |
| 20 | 8.72 | 29.249 | 22.69 | 0.454 | 5.08 | 78 | 2.64 | 5 |
| 40 | 8.74 | 29.219 | 22.66 | 0.457 | 5.12 | 79 | 2.65 | 4 |
| 55 | 8.72 | 29.267 | 22.70 | 0.442 | 4.95 | 76 | 2.55 | 4 |

CRUISE BB187 STATION 013 DEVILS HEAD

DATE 02/11/58 HR 101 ZN 08 LAT 47-10.0N LONG 122-47.5W AREA CSE
 SDG 087M TIDE HT 9.9 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 22
 DRY 42.0 WET 42.0 RELHU 99 CL AMT 0 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.56 | 28.605 | 22.21 | 0.460 | 5.15 | 78 | 2.53 | 4 |
| 5 | 8.68 | 28.659 | 22.24 | 0.453 | 5.07 | 78 | 2.51 | 4 |
| 10 | 8.68 | 28.690 | 22.26 | 0.447 | 5.01 | 77 | 2.56 | 5 |
| 20 | 8.68 | 28.957 | 22.47 | 0.442 | 4.95 | 76 | 2.53 | 3 |
| 30 | 8.68 | 29.058 | 22.55 | 0.439 | 4.92 | 75 | 2.49 | 5 |
| 50 | 8.72 | 29.121 | 22.59 | 0.443 | 4.96 | 76 | 2.53 | 6 |
| 75 | 8.70 | 29.192 | 22.65 | 0.441 | 4.94 | 76 | 2.65 | 6 |

CRUISE BB187 STATION 014 DICKERSON POINT

DATE 02/11/58 HR 201 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 SDG 038M TIDE HT 8.3 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 22
 DRY 42.0 WET 42.0 RELHU 99 CL AMT 0 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.57 | 28.655 | 22.25 | 0.449 | 5.03 | 77 | 2.64 | 5 |
| 5 | 8.65 | 28.711 | 22.28 | 0.446 | 5.00 | 76 | 2.65 | 5 |
| 10 | 8.64 | 28.769 | 22.33 | 0.443 | 4.96 | 76 | 2.56 | 5 |
| 20 | 8.68 | 29.044 | 22.54 | 0.440 | 4.93 | 75 | 2.59 | 5 |
| 30 | 8.69 | 29.071 | 22.56 | 0.440 | 4.93 | 75 | 2.59 | 4 |

CRUISE BB187 STATION 015 DOVER POINT

DATE 02/11/58 HR 257 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 SDG 056M TIDE HT 8.0 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 22
 DRY 41.5 WET 41.5 RELHU 99 CL AMT 0 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.54 | 28.181 | 21.88 | 0.450 | 5.04 | 77 | 2.65 | 5 |
| 5 | 8.54 | 28.244 | 21.93 | 0.458 | 5.13 | 78 | 2.59 | 5 |
| 10 | 8.57 | 28.334 | 22.00 | 0.452 | 5.06 | 77 | 2.58 | 4 |
| 20 | 8.64 | 28.527 | 22.14 | 0.445 | 4.98 | 76 | 2.64 | 4 |
| 30 | 8.67 | 28.614 | 22.20 | 0.442 | 4.95 | 76 | 2.76 | 4 |
| 40 | 8.68 | 28.6-1 | 22.22 | 0.445 | 4.98 | 76 | 2.80 | 5 |
| 50 | 8.66 | 28.621 | 22.21 | 0.440 | 4.93 | 75 | 2.65 | 2 |

CRUISE BB187 STATION 016 GULL HARBOR

DATE 02/11/58 HR 402 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 SDG 018M TIDE HT 6.2 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 21
 DRY 41.5 WET 41.5 RELHU 99 CL AMT 0 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.51 | 27.367 | 21.25 | 0.464 | 5.20 | 78 | 2.54 | 6 |
| 2 | 8.64 | 27.905 | 21.65 | 0.455 | 5.10 | 77 | 2.65 | 5 |
| 5 | 8.66 | 28.094 | 21.80 | 0.447 | 5.01 | 76 | 2.57 | 5 |
| 10 | 8.66 | 28.352 | 22.00 | 0.438 | 4.91 | 75 | 2.66 | 4 |
| 15 | 8.65 | 28.558 | 22.16 | 0.430 | 4.82 | 74 | 2.80 | 5 |

CRUISE BB187 STATION 017 OLYMPIA SHOAL

DATE 02/11/58 HR 444 ZN 08 LAT 47-05.1N LONG 122-55.4W AREA BUD
 SDG 015M TIDE HT 5.9 STG L WSPD 01 DIR 26 WEA 2 SEA 1 BAR 21
 DRY 40.5 WET 40.0 RELHU 96 CL AMT 0 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.30 | 26.953 | 20.96 | 0.455 | 5.10 | 76 | 2.96 | 3 |
| 2 | 8.72 | 27.609 | 21.41 | 0.449 | 5.03 | 76 | 2.82 | 5 |
| 5 | 8.70 | 28.029 | 21.74 | 0.446 | 5.00 | 76 | 2.91 | 5 |
| 10 | 8.65 | 28.354 | 22.00 | 0.432 | 4.84 | 74 | 2.90 | 5 |
| 13 | 8.62 | 28.406 | 22.05 | 0.431 | 4.83 | 74 | 3.00 | 4 |

CRUISE BB187 STATION 018 JOHNSON POINT, N OF

DATE 02/11/58 HR 617 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 SDG 076M TIDE HT 7.1 STG R WSPD 03 DIR 36 WEA SEA 1 BAR 19
 DRY 41.7 WET 41.4 RELHU 98 CL AMT 0 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.56 | 28.453 | 22.09 | 0.450 | 5.04 | 77 | 2.83 | 4 |
| 5 | 8.62 | 28.486 | 22.11 | 0.446 | 5.00 | 76 | 2.91 | 5 |
| 10 | 8.60 | 28.567 | 22.18 | 0.447 | 5.01 | 76 | 2.95 | 4 |
| 20 | 8.64 | 28.730 | 22.30 | 0.446 | 5.00 | 76 | 2.84 | 4 |
| 30 | 8.66 | 28.986 | 22.49 | 0.440 | 4.93 | 75 | 2.88 | 5 |
| 50 | 8.73 | 29.170 | 22.63 | 0.441 | 4.94 | 76 | 2.90 | 6 |
| 70 | 8.72 | 29.175 | 22.63 | 0.433 | 4.85 | 74 | 2.80 | 5 |

CRUISE BB187 STATION 019 WHITEMAN COVE

DATE 02/11/58 HR 658 ZN 08 LAT 47-13.0N LONG 122-48.8W AREA CSE
 SDG 68M TIDE HT 8.3 STG F WSPD 03 DIR 01 WEA 3 SEA 1 BAR 19
 DRY 41.0 WET 41.0 RELHU 99 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.50 | 28.695 | 22.29 | 0.452 | 5.06 | 77 | 2.96 | 4 |
| 5 | 8.62 | 28.730 | 22.30 | 0.455 | 5.10 | 78 | 3.03 | 5 |
| 10 | 8.64 | 28.730 | 22.30 | 0.451 | 5.05 | 77 | 2.96 | 5 |
| 20 | 8.69 | 28.793 | 22.34 | 0.444 | 4.97 | 76 | 2.95 | 5 |
| 30 | 8.66 | 28.928 | 22.45 | 0.441 | 4.94 | 76 | 2.95 | 5 |
| 55 | 8.72 | 29.170 | 22.63 | 0.440 | 4.93 | 76 | 3.11 | 6 |

CRUISE BB187 STATION 020 HERRON ISLAND

DATE 02/11/58 HR 830 ZN 08 LAT 47-15.4N LONG 122-51.0W AREA CSE
 SDG 070M TIDE HT 12.2 STG R WSPD 03 DIR 01 WEA 2 SEA 1 BAR 18
 DRY 42.0 WET 41.0 RELHU 92 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.40 | 28.101 | 21.84 | 0.471 | 5.28 | 80 | 2.96 | 6 |
| 5 | 8.56 | 28.464 | 22.10 | 0.465 | 5.21 | 79 | 2.95 | 4 |
| 10 | 8.65 | 28.522 | 22.13 | 0.456 | 5.11 | 78 | 2.96 | 6 |
| 20 | 8.68 | 28.932 | 22.45 | 0.435 | 4.87 | 75 | 3.03 | 4 |
| 30 | 8.66 | 28.946 | 22.46 | 0.436 | 4.88 | 75 | 2.96 | 4 |
| 50 | 8.72 | 29.116 | 22.59 | 0.431 | 4.83 | 74 | 3.00 | 6 |

CRUISE BB187 STATION 021 DUTCHERS COVE

DATE 02/11/58 HR 912 ZN 08 LAT 47-18.6N LONG 122-48.9W AREA CSE
 SDG 34M TIDE HT 13.7 STG R WSPD 04 DIR 01 WEA 2 SEA 1 BAR 17
 DRY 42.0 WET 41.0 RELHU 92 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.48 | 27.885 | 21.66 | 0.477 | 5.34 | 81 | 2.66 | 5 |
| 5 | 8.66 | 28.038 | 21.75 | 0.465 | 5.21 | 79 | 2.78 | 2 |
| 10 | 8.62 | 28.430 | 22.07 | 0.446 | 5.00 | 76 | 2.88 | 5 |
| 20 | 8.64 | 28.715 | 22.29 | 0.434 | 4.86 | 74 | 2.89 | 5 |
| 25 | 8.63 | 28.858 | 22.40 | 0.430 | 4.82 | 74 | 2.96 | 5 |

CRUISE BB187 STATION 022 ROCKY POINT

DATE 02/11/58 HR 1009 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 SDG 015M TIDE HT 14.5 STG H WSPD 04 DIR 01 WEA 2 SEA 1 BAR 17
 DRY 42.0 WET 41.0 RELHU 92 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.23 | 26.152 | 20.34 | 0.482 | 5.40 | 80 | 2.65 | 5 |
| 2 | 8.64 | 27.798 | 21.57 | 0.465 | 5.21 | 79 | 2.85 | 5 |
| 5 | 8.64 | 28.230 | 21.91 | 0.465 | 5.21 | 79 | 2.80 | 6 |
| 10 | 8.59 | 28.383 | 22.03 | 0.444 | 4.97 | 76 | 3.19 | 5 |
| 15 | 8.60 | 28.675 | 22.26 | 0.362 | 4.05 | 62 | --- | 7 |

CRUISE BB187 STATION 023 DOUGALL POINT

DATE 02/11/58 HR 1050 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 SDG 040M TIDE HT 14.2 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 16
 DRY 44.5 WET 43.5 RELHU 93 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.31 | 27.504 | 21.39 | 0.480 | 5.38 | 81 | 3.07 | 5 |
| 5 | 8.66 | 28.038 | 21.75 | 0.466 | 5.22 | 79 | 2.67 | 4 |
| 10 | 8.64 | 28.470 | 22.09 | 0.455 | 5.10 | 78 | 2.81 | 4 |
| 15 | 8.64 | 28.748 | 22.31 | 0.434 | 4.86 | 74 | 2.90 | 5 |
| 25 | 8.64 | 28.912 | 22.44 | 0.424 | 4.75 | 73 | 3.27 | 4 |

CRUISE BB187 STATION 024 GRANT

DATE 02/11/58 HR 1135 ZN 08 LAT 47-16.3N LONG 122-55.4W AREA PCK
 SDG 017M TIDE HT 13.4 STG F WSPD 00 DIR WEA 2 SEA 0 BAR 15
 DRY 47.5 WET 45.5 RELHU 86 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.32 | 27.650 | 21.50 | 0.456 | 5.11 | 77 | 3.18 | 5 |
| 5 | 8.44 | 27.905 | 21.68 | 0.452 | 5.06 | 76 | 2.80 | 5 |
| 10 | 8.61 | 28.219 | 21.90 | 0.452 | 5.06 | 77 | 2.90 | 5 |
| 15 | 8.63 | 28.443 | 22.07 | 0.439 | 4.92 | 75 | 2.57 | 5 |

CRUISE BB187 STATION 025 ARCADIA

DATE 02/11/58 HR 1230 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 SDG 017M TIDE HT 11.7 STG F WSPD 10 DIR 02 WEA 52 SEA 1 BAR 14
 DRY 47.5 WET 46.0 RELHU 90 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.54 | 26.930 | 20.91 | 0.460 | 5.15 | 78 | 2.88 | 6 |
| 2 | 8.57 | 27.188 | 21.10 | 0.454 | 5.08 | 77 | 2.74 | 5 |
| 5 | 8.60 | 27.493 | 21.34 | 0.447 | 5.01 | 76 | 2.72 | 5 |
| 10 | 8.63 | 27.834 | 21.60 | 0.447 | 5.01 | 76 | 2.73 | 4 |

CRUISE BB187 STATION 26A WINDY POINT

DATE 02/11/58 HR 1347 ZN 08 LAT 47-A0.4N LONG 122-57.2W AREA TOT
 SDG 037M TIDE HT 7.8 STG F WSPD 02 DIR 19 WEA 2 SEA BAR 13
 DRY 47.5 WET 46.0 RELHU 90 CL 6 AMT 8 SCD * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.43 | 26.710 | 20.75 | 0.469 | 5.25 | 79 | 2.65 | 3 |
| 2 | 8.47 | 26.710 | 20.75 | 0.464 | 5.20 | 78 | 2.26 | 5 |
| 5 | 8.56 | 27.067 | 21.01 | 0.457 | 5.12 | 77 | 2.39 | 4 |
| 10 | 8.62 | 27.275 | 21.17 | 0.453 | 5.07 | 77 | 2.47 | 5 |
| 20 | 8.56 | 27.479 | 21.33 | 0.453 | 5.07 | 77 | 2.50 | 5 |
| 30 | 8.59 | 27.760 | 21.55 | 0.445 | 4.98 | 76 | 2.69 | 5 |

CRUISE BB187 STATION 26B WINDY POINT

DATE 02/12/58 HR 518 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 SDG 037M TIDE HT 12.2 STG F WSPD * DIR * WEA 61 SEA 0 BAR
 DRY 43.0 WET 43.0 RELHU 99 CL 0 AMT 8 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.42 | 26.825 | 20.84 | 0.509 | 5.70 | 85 | 2.62 | - |
| 2 | 8.50 | 26.984 | 20.96 | 0.506 | 5.67 | 85 | 2.65 | - |
| 5 | 8.51 | 27.018 | 20.98 | 0.507 | 5.68 | 85 | 2.65 | - |
| 10 | 8.52 | 27.082 | 21.03 | 0.504 | 5.64 | 85 | 2.68 | - |
| 20 | 8.52 | 27.222 | 21.14 | 0.503 | 5.63 | 85 | 2.61 | - |
| 30 | 8.59 | 27.446 | 21.30 | 0.506 | 5.67 | 86 | 2.62 | - |

CRUISE BB187 STATION 027 NARROWS, N OF

DATE 02/12/58 HR 732 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 SDG 011M TIDE HT 6.5 STG R WSPD 00 DIR WEA 60 SEA 0 BAR 91
 DRY 46.0 WET * RELHU * CL * AMT * SCD 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.16 | 18.567 | 14.44 | 0.532 | 5.96 | 84 | 1.97 | 6 |
| 1 | 8.33 | 20.408 | 15.85 | 0.521 | 5.84 | 84 | 2.22 | 3 |
| 2 | 8.36 | 21.130 | 16.41 | 0.515 | 5.77 | 83 | 2.36 | 5 |
| 4 | 8.34 | 21.203 | 16.47 | 0.510 | 5.71 | 82 | 2.19 | 6 |
| 7 | 8.39 | 21.347 | 16.58 | 0.502 | 5.62 | 81 | -.-- | |

CRUISE BB187 STATION 028 CHAPMAN COVE

DATE 02/12/58 HR 801 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 SDG 007M TIDE HT 6.8 STG R WSPD 00 DIR WEA 60 SEA 0 BAR 91
 DRY 47.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.32 | 21.185 | 16.46 | 0.511 | 5.72 | 82 | 2.07 | 6 |
| 1 | 8.42 | 21.925 | 17.02 | 0.510 | 5.71 | 83 | 2.27 | 7 |
| 2 | 8.42 | 22.412 | 17.40 | 0.512 | 5.73 | 83 | 2.30 | 6 |
| 4 | 8.42 | 22.954 | 17.82 | 0.505 | 5.66 | 83 | 2.27 | 6 |

CRUISE BB187 STATION 029 SHELTON

DATE 02/12/58 HR 829 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 SDG 023M TIDE HT 7.3 STG R WSPD 00 DIR WEA 60 SEA 0 BAR 91
 DRY 47.0 WET * RELHU * CL * AMT * SCD 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.00 | 16.456 | 12.81 | 0.552 | 6.18 | 86 | 2.02 | 9 |
| 2 | 8.36 | 22.177 | 17.23 | 0.521 | 5.84 | 85 | 2.19 | 6 |
| 4 | 8.37 | 22.629 | 17.58 | 0.521 | 5.84 | 85 | 2.31 | 8 |
| 7 | 8.42 | 24.379 | 18.94 | 0.513 | 5.75 | 85 | 2.42 | 7 |
| 10 | 8.45 | 24.704 | 19.18 | 0.511 | 5.72 | 85 | 2.50 | 7 |
| 15 | 8.46 | 25.174 | 19.55 | 0.514 | 5.76 | 85 | 2.13 | 7 |

CRUISE BB187 STATION 030 CHURCH POINT, W OF

DATE 02/12/58 HR 1926 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 SDG * TIDE HT 8.1 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 91
 DRY 48.0 WET * RELHU * CL * AMT * SCD 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.34 | 22.881 | 17.78 | 0.521 | 5.84 | 85 | 2.23 | 7 |
| 2 | 8.38 | 23.188 | 18.01 | 0.519 | 5.81 | 85 | 2.20 | 8 |
| 4 | 8.39 | 23.351 | 18.14 | 0.520 | 5.82 | 85 | 2.26 | 7 |
| 7 | 8.38 | 23.441 | 18.21 | 0.516 | 5.78 | 85 | 2.38 | 7 |
| 10 | 8.44 | 24.235 | 18.82 | 0.519 | 5.81 | 86 | 2.41 | 7 |

CRUISE BB187 STATION 031 CANNERY POINT

DATE 02/12/58 HR 936 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 SDG 009M TIDE HT 12.2 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 91
 DRY 48.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.52 | 27.044 | 21.00 | 0.510 | 5.71 | 86 | 2.65 | 5 |
| 2 | 8.56 | 27.065 | 21.01 | 0.511 | 5.72 | 86 | 2.53 | 5 |
| 4 | 8.53 | 27.008 | 20.97 | 0.512 | 5.73 | 86 | 2.53 | 6 |

CRUISE BB187 STATION 032 ARCADIA

DATE 02/12/58 HR 1008 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 SDG 017M TIDE HT 13.1 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 91
 DRY 49.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.51 | 26.506 | 20.58 | 0.514 | 5.76 | 86 | 2.55 | 10 |
| 2 | 8.56 | 27.011 | 20.97 | 0.510 | 5.71 | 86 | 2.73 | 5 |
| 5 | 8.54 | 27.136 | 21.07 | 0.510 | 5.71 | 86 | 2.42 | 5 |
| 10 | 8.52 | 27.291 | 21.19 | 0.503 | 5.63 | 85 | 2.49 | 6 |

CRUISE BB187 STATION 033 GRAHAM POINT

DATE 02/12/58 HR 1041 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 SDG 025M TIDE HT 13.6 STG R WSPD 00 DIR WEA 2 SEA 0 BAR 92
 DRY 49.0 WET * RELHU * CL * AMT * SCD 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.52 | 27.423 | 21.29 | 0.508 | 5.69 | 86 | 2.42 | 5 |
| 5 | 8.56 | 27.859 | 21.63 | 0.505 | 5.66 | 86 | 2.49 | 5 |
| 10 | 8.60 | 28.119 | 21.83 | 0.493 | 5.52 | 84 | 2.42 | 6 |
| 15 | 8.60 | 28.134 | 21.84 | 0.487 | 5.45 | 83 | 2.44 | 6 |

CRUISE BB187 STATION 034 PEALE PASSAGE

DATE 02/12/58 HR 1116 ZN 08 LAT 47-11.8N LONG 122-53.5W AREA PLE
 SDG 013M TIDE HT 13.9 STG H WSPD 09 DIR 18 WEA 2 SEA 1 BAR 92
 DRY 50.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.52 | 27.536 | 21.38 | 0.503 | 5.63 | 85 | 2.49 | 5 |
| 2 | 8.57 | 27.634 | 21.45 | 0.502 | 5.62 | 85 | 2.55 | 6 |
| 4 | 8.58 | 27.769 | 21.56 | 0.506 | 5.67 | 86 | 2.49 | 6 |
| 8 | 8.60 | 28.334 | 21.99 | 0.498 | 5.58 | 85 | 2.31 | 5 |

CRUISE BB187 STATION 036 COOPER POINT

DATE 02/12/58 HR 1201 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 SDG 035M TIDE HT 13.8 STG F WSPD 10 DIR 18 WEA 2 SEA 2 BAR 92
 DRY 51.0 WET * RELHU * CL * AMT * SCD 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.58 | 27.742 | 21.54 | 0.510 | 5.71 | 86 | 2.65 | 5 |
| 2 | 8.60 | 27.870 | 21.63 | 0.510 | 5.71 | 87 | 2.48 | 4 |
| 5 | 8.58 | 28.047 | 21.77 | 0.506 | 5.67 | 86 | 2.64 | 6 |
| 10 | 8.56 | 28.181 | 21.88 | 0.502 | 5.62 | 85 | 2.65 | 6 |
| 15 | 8.61 | 28.217 | 21.90 | 0.503 | 5.63 | 86 | 2.73 | 6 |
| 20 | 8.62 | --- | --- | 0.502 | 5.62 | -- | 2.66 | 6 |

CRUISE BB187 STATION 037 FLAPJACK POINT

DATE 02/12/58 HR 1236 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 SDG 020M TIDE HT 13.2 STG F WSPD 09 DIR 18 WEA 50 SEA 1 BAR 92
 DRY 50.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.52 | 25.390 | 19.71 | 0.527 | 5.90 | 88 | 2.57 | 6 |
| 2 | 8.53 | 27.206 | 21.12 | 0.527 | 5.90 | 89 | 2.64 | 6 |
| 4 | 8.53 | 27.444 | 21.31 | 0.519 | 5.81 | 88 | 2.66 | 6 |
| 7 | 8.61 | 27.896 | 21.65 | 0.501 | 5.61 | 85 | 2.68 | 6 |
| 12 | 8.68 | 28.168 | 21.85 | 0.480 | 5.38 | 82 | 2.81 | 6 |

CRUISE BB187 STATION 038 ELD INLET, HEAD OF

DATE 02/12/58 HR 1304 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 SDG 011M TIDE HT 12.5 STG F WSPD 12 DIR 18 WEA 50 SEA 1 BAR 92
 DRY 50.0 WET * RELHU * CL * AMT * SCD 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.36 | 23.657 | 18.38 | 0.542 | 6.07 | 89 | 2.01 | 5 |
| 2 | 8.44 | 27.062 | 21.02 | 0.531 | 5.95 | 89 | 2.39 | 6 |
| 5 | 8.57 | 27.536 | 21.38 | 0.513 | 5.75 | 87 | 2.50 | 5 |

CRUISE BB187 STATION 039 HUNTER POINT

DATE 02/11/58 HR 1608 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 SDG * TIDE HT 2.1 STG F WSPD 00 DIR WEA 60 SEA 0 BAR 03
 DRY 48.0 WET * RELHU * CL * AMT * SCD 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.54 | 27.349 | 21.23 | 0.505 | 5.66 | 85 | 2.49 | 5 |
| 2 | 8.58 | 27.367 | 21.24 | 0.506 | 5.67 | 86 | 2.47 | 6 |
| 5 | 8.56 | 27.403 | 21.27 | 0.505 | 5.66 | 85 | 2.46 | 6 |
| 10 | 8.56 | 27.540 | 21.38 | 0.503 | 5.63 | 85 | 2.47 | 6 |
| 15 | 8.60 | 27.500 | 21.34 | 0.503 | 5.63 | 85 | 2.49 | 8 |

CRUISE BB187 STATION 040 SKOOKUM INLET, ENTRANCE

DATE 02/11/58 HR 1511 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 SDG 005M TIDE HT 3.8 STG F WSPD 00 DIR WEA 60 SEA 0 BAR 03
 DRY 47.0 WET * RELHU * CL * AMT * SCD 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.28 | 23.477 | 18.25 | 0.520 | 5.82 | 85 | 2.38 | 7 |
| 1 | 8.32 | 23.910 | 18.58 | 0.513 | 5.75 | 84 | 2.38 | 6 |
| 2 | 8.34 | 23.883 | 18.56 | 0.516 | 5.78 | 85 | 2.24 | 7 |
| 3 | 8.32 | 25.083 | 19.50 | 0.510 | 5.71 | 84 | 2.34 | 6 |

CRUISE BB187 STATION 041 NEW KAMILCHE

DATE 02/11/58 HR 1404 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 SDG * TIDE HT 6.8 STG F WSPD 00 DIR WEA 60 SEA 0 BAR 04
 DRY * WET * RELHU * CL * AMT * SCD 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.25 | 25.490 | 19.82 | 0.527 | 5.90 | 87 | 2.50 | 7 |
| 2 | 8.66 | 26.224 | 20.34 | 0.518 | 5.80 | 87 | 2.48 | 5 |
| 4 | 8.62 | 26.513 | 20.57 | 0.514 | 5.76 | 87 | 2.53 | 7 |
| 7 | 8.62 | 26.769 | 20.77 | 0.498 | 5.58 | 84 | 2.55 | 7 |
| 10 | 8.64 | 26.944 | 20.90 | 0.495 | 5.54 | 84 | 2.25 | 7 |

CRUISE BB187 STATION 042 BURNS POINT

DATE 02/11/58 HR 1437 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 SDG * TIDE HT 5.1 STG F WSPD 00 DIR WEA 60 SEA 0 BAR 04
 DRY 46.0 WET * RELHU * CL * AMT * SCD 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.22 | 23.477 | 18.26 | 0.534 | 5.98 | 87 | 2.25 | 6 |
| 1 | 8.60 | 25.625 | 19.88 | 0.505 | 5.66 | 84 | 2.54 | 5 |
| 2 | 8.64 | 26.163 | 20.30 | 0.502 | 5.62 | 84 | 2.49 | 6 |
| 4 | 8.62 | 26.513 | 20.57 | 0.499 | 5.59 | 84 | 2.53 | 6 |

CRUISE BB187 STATION 043 NEW KAMILCHE

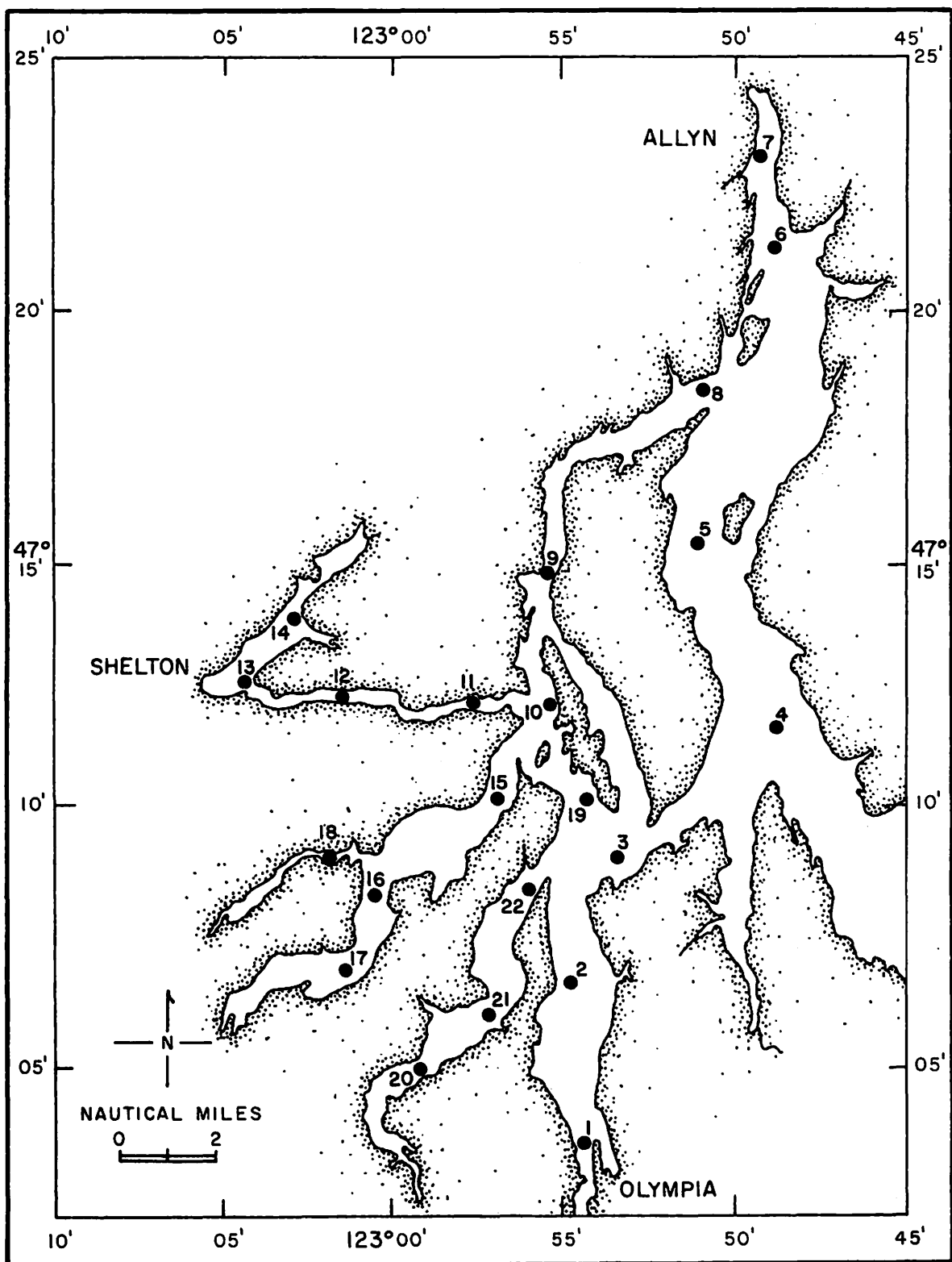
DATE 02/14/58 HR 611 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 SDG 018M TIDE HT 10.5 STG F WSPD * DIR * WEA 61 SEA 0 BAR
 DRY 42.5 WET 42.5 RELHU 99 CL 0 AMT 8 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.28 | 25.605 | 19.91 | 0.526 | 5.89 | 87 | 2.68 | - |
| 2 | 8.49 | 26.134 | 20.29 | 0.513 | 5.75 | 86 | 2.69 | - |
| 4 | 8.52 | 26.313 | 20.43 | 0.510 | 5.71 | 86 | 2.76 | - |
| 7 | 8.59 | 26.881 | 20.86 | 0.499 | 5.59 | 84 | 2.91 | - |
| 10 | 8.54 | 26.953 | 20.93 | 0.492 | 5.51 | 83 | 2.91 | - |
| 15 | 8.56 | 27.018 | 20.97 | 0.496 | 5.56 | 84 | 2.96 | - |

CRUISE BB187 STATION 044 ARCADIA

DATE 02/14/58 HR 710 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 SDG 016M TIDE HT 8.3 STG F WSPD * DIR * WEA 61 SEA 0 BAR
 DRY 41.2 WET 41.2 RELHU 99 CL 0 AMT 8 SCD * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.49 | 26.964 | 20.94 | 0.502 | 5.62 | 85 | 2.69 | - |
| 2 | 8.51 | 26.950 | 20.93 | 0.502 | 5.62 | 85 | 2.71 | - |
| 5 | 8.51 | 26.973 | 20.95 | 0.500 | 5.60 | 84 | 2.71 | - |
| 10 | 8.51 | 26.946 | 20.92 | 0.501 | 5.61 | 84 | 2.72 | - |



OCEANOGRAPHIC STATION LOCATIONS
PSO-09 8-9 MAR. 1958

CRUISE PSO 09 STATION 001 BUDD INLET BUOY NO 12

DATE 03/08/58 HR 638 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 15.4 STG H WSPD 00 DIR WEA * SEA 0 BAR 01 DRY *
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.30 | 23.676 | 18.40 | 0.513 | 5.75 | 84 | 2.29 | 5 |
| 4 | 8.66 | 27.946 | 21.68 | 0.492 | 5.51 | 84 | 2.61 | 5 |
| 7 | 8.64 | 27.946 | 21.69 | 0.492 | 5.51 | 84 | 2.17 | 5 |
| 10 | 8.61 | 27.957 | 21.70 | 0.488 | 5.47 | 83 | 2.09 | 5 |

CRUISE PSO 09 STATION 002 GULL HARBOR

DATE 03/08/58 HR 737 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 15.1 STG F WSPD 11 DIR 180 WEA 03 SEA 2 BAR 02 DRY 39.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.32 | 27.498 | 21.38 | 0.523 | 5.86 | 88 | 2.40 | 7 |
| 2 | 8.31 | 27.565 | 21.43 | 0.519 | 5.81 | 87 | 2.49 | 4 |
| 5 | 8.41 | 27.619 | 21.46 | 0.421 | 4.72 | 71 | 2.34 | 4 |
| 10 | 8.45 | 27.845 | 21.63 | 0.513 | 5.75 | 87 | -.-- | 7 |
| 15 | 8.46 | 27.955 | 21.72 | 0.491 | 5.50 | 83 | 2.16 | 5 |

CRUISE PSO 09 STATION 003 DOVER POINT

DATE 03/08/58 HR 809 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 14.4 STG F WSPD 08 DIR 180 WEA 03 SEA 2 BAR 03 DRY 39.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.48 | 28.058 | 21.80 | 0.514 | 5.76 | 87 | 2.29 | 5 |
| 5 | 8.59 | 28.062 | 21.78 | 0.510 | 5.71 | 87 | 2.42 | 7 |
| 10 | 8.58 | 28.206 | 21.90 | 0.508 | 5.69 | 86 | 2.64 | 6 |
| 20 | 8.56 | 28.296 | 21.97 | 0.507 | 5.68 | 86 | 2.45 | 4 |
| 30 | 8.53 | 28.305 | 21.98 | 0.506 | 5.67 | 86 | 2.36 | 4 |
| 50 | 8.53 | 28.311 | 21.99 | 0.506 | 5.67 | 86 | 2.27 | 4 |

CRUISE PSO 09 STATION 004 JOHNSON POINT, N OF

DATE 03/08/58 HR 851 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 12.7 STG F WSPD 02 DIR 360 WEA 03 SEA 1 BAR 03 DRY 40.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.45 | 28.139 | 21.86 | 0.516 | 5.78 | 87 | 2.02 | 4 |
| 5 | 8.63 | 28.529 | 22.14 | 0.507 | 5.68 | 87 | 2.00 | 4 |
| 10 | 8.65 | 28.661 | 22.24 | 0.499 | 5.59 | 85 | 2.35 | 5 |
| 20 | 8.69 | 28.498 | 22.11 | 0.498 | 5.58 | 85 | -.-- | 5 |
| 30 | 8.64 | 28.475 | 22.10 | 0.502 | 5.62 | 86 | 2.20 | 6 |
| 50 | 8.61 | 28.749 | 22.32 | 0.497 | 5.57 | 85 | 2.30 | 7 |
| 70 | 8.62 | 28.778 | 22.34 | 0.501 | 5.61 | 86 | 2.29 | 5 |

CRUISE PSO 09 STATION 005 HERRON ISLAND

DATE 03/08/58 HR 944 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 09.6 STG F WSPD 12 DIR 180 WEA 60 SEA 2 BAR 03 DRY 40.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.49 | 28.285 | 21.97 | 0.524 | 5.87 | 89 | 2.33 | - |
| 5 | 8.54 | 28.340 | 22.01 | 0.518 | 5.80 | 88 | 2.18 | 7 |
| 10 | 8.55 | 28.381 | 22.04 | 0.513 | 5.75 | 87 | 2.51 | 7 |
| 20 | 8.60 | 28.455 | 22.09 | 0.503 | 5.63 | 86 | 2.50 | 6 |
| 30 | 8.59 | 28.563 | 22.17 | 0.498 | 5.58 | 85 | 2.33 | 7 |
| 50 | 8.65 | 28.578 | 22.18 | 0.489 | 5.48 | 84 | 1.89 | 6 |

CRUISE PSO 09 STATION 006 ROCKY POINT

DATE 03/08/58 HR 1043 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 05.4 STG F WSPD 10 DIR 150 WEA 60 SEA 2 BAR 04 DRY 40.0
 CL * AMT * SCI * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.23 | 27.305 | 21.24 | 0.577 | 6.46 | 97 | 1.87 | 7 |
| 2 | 8.45 | 27.571 | 21.42 | 0.564 | 6.32 | 95 | 2.11 | 5 |
| 5 | 8.47 | 27.582 | 21.43 | 0.563 | 6.31 | 95 | 2.21 | 6 |
| 10 | 8.51 | 27.693 | 21.51 | 0.552 | 6.18 | 93 | 2.15 | 7 |
| 15 | 8.58 | 27.820 | 21.60 | 0.533 | 5.97 | 90 | 2.13 | 5 |

CRUISE PSO 09 STATION 007 ALLYN

DATE 03/08/58 HR 1106 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 04.2 STG F WSPD 07 DIR 160 WEA * SEA * BAR 04 DRY 40.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.54 | 24.813 | 19.26 | 0.598 | 6.70 | 99 | 2.03 | 7 |
| 2 | 8.12 | 26.531 | 20.65 | 0.574 | 6.43 | 96 | 1.93 | 8 |

CRUISE PSO 09 STATION 008 DOUGALL POINT

DATE 03/08/58 HR 1155 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 01.9 STG F WSPD 08 DIR 145 WEA 60 SEA 2 BAR 04 DRY 40.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.47 | 27.737 | 21.55 | 0.529 | 5.92 | 90 | 2.25 | 7 |
| 5 | 8.50 | 27.973 | 21.73 | 0.524 | 5.87 | 89 | 1.89 | 7 |
| 10 | 8.45 | 27.993 | 21.75 | 0.524 | 5.87 | 89 | 1.88 | 7 |
| 15 | 8.51 | 28.040 | 21.78 | 0.525 | 5.88 | 89 | 2.27 | 6 |
| 25 | 8.49 | 28.053 | 21.79 | 0.523 | 5.86 | 89 | 2.47 | 6 |

CRUISE PSO 09 STATION 009 GRAHAM POINT

DATE 03/08/58 HR 1257 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 00.8 STG F WSPD 10 DIR 175 WEA 02 SEA 1 BAR 04 DRY 41.5
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.31 | 26.621 | 20.70 | 0.532 | 5.96 | 89 | 1.80 | 6 |
| 5 | 8.31 | 26.628 | 20.70 | 0.534 | 5.98 | 89 | 2.29 | 9 |
| 10 | 8.32 | 26.670 | 20.73 | 0.530 | 5.94 | 89 | 2.38 | 8 |
| 15 | 8.41 | 26.701 | 20.75 | 0.494 | 5.53 | 83 | 2.37 | 8 |

CRUISE PSO 09 STATION 010 ARCADIA

DATE 03/08/58 HR 1335 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 00.6 STG L WSPD 10 DIR 180 WEA 03 SEA 2 BAR 05 DRY 43.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.23 | 26.267 | 20.43 | 0.545 | 6.10 | 90 | 2.19 | 6 |
| 2 | 8.28 | 26.531 | 20.63 | 0.534 | 5.98 | 89 | 2.13 | 5 |
| 5 | 8.27 | 26.721 | 20.78 | 0.533 | 5.97 | 89 | 2.18 | 5 |
| 10 | 8.24 | 26.809 | 20.85 | 0.534 | 5.98 | 89 | 2.02 | 5 |

CRUISE PSO 09 STATION 011 CANNERY POINT

DATE 03/08/58 HR 1401 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 00.7 STG L WSPD 04 DIR 175 WEA * SEA * BAR 05 DRY 43.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 1 | 8.23 | 24.037 | 18.69 | 0.540 | 6.05 | 89 | 2.05 | 5 |
| 3 | 8.21 | 24.037 | 18.70 | 0.540 | 6.05 | 89 | 1.81 | 5 |

CRUISE PSO 09 STATION 012 CHURCH POINT, W OF

DATE 03/08/58 HR 1444 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 00.2 STG L WSPD 02 DIR 175 WEA * SEA * BAR 05 DRY 43.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.19 | 23.215 | 18.06 | 0.540 | 6.05 | 88 | 2.00 | 5 |
| 2 | 8.21 | 23.251 | 18.08 | 0.541 | 6.06 | 88 | 1.93 | 6 |
| 4 | 8.21 | 23.305 | 18.12 | 0.539 | 6.04 | 88 | 2.13 | 6 |
| 7 | 8.20 | 23.360 | 18.17 | 0.540 | 6.05 | 88 | 1.95 | 6 |
| 10 | 8.30 | 23.396 | 18.18 | 0.537 | 6.01 | 88 | 2.29 | 6 |

CRUISE PSO 09 STATION 013 SHELTON

DATE 03/08/58 HR 1511 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 00.3 STG R WSPD * DIR * WEA 70 SEA * BAR 06 DRY 40.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.69 | 18.387 | 14.35 | 0.572 | 6.41 | 89 | 1.80 | 7 |
| 2 | 8.08 | 21.889 | 17.04 | 0.550 | 6.16 | 89 | 1.76 | 6 |
| 4 | 8.16 | 22.538 | 17.53 | 0.545 | 6.10 | 88 | 2.01 | 5 |
| 7 | 8.21 | 23.540 | 18.31 | 0.538 | 6.03 | 88 | 1.93 | 6 |

CRUISE PSO 09 STATION 014 CHAPMAN COVE, NW OF

DATE 03/08/58 HR 1543 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 00.8 STG F WSPD 01 DIR 190 WEA 60 SEA * BAR 05 DRY 42.5
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 1 | 7.61 | 17.737 | 13.85 | 0.577 | 6.46 | 89 | 1.36 | 5 |
| 2 | 8.07 | 20.697 | 16.11 | 0.556 | 6.23 | 88 | 2.01 | 6 |

CRUISE PSO 09 STATION 015 WINDY PT, NE OF

DATE 03/08/58 HR 1714 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 10.1 STG R WSPD 00 DIR WEA * SEA 0* BAR 06 DRY 40.5
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.29 | 26.591 | 20.68 | 0.536 | 6.00 | 90 | 2.42 | 4 |
| 2 | 8.32 | 26.645 | 20.72 | 0.536 | 6.00 | 90 | 2.20 | 5 |
| 5 | 8.33 | 26.784 | 20.82 | 0.533 | 5.97 | 89 | 2.33 | 6 |
| 10 | 8.33 | 26.811 | 20.84 | 0.535 | 5.99 | 90 | 2.29 | 7 |
| 20 | 8.37 | 26.829 | 20.85 | 0.534 | 5.98 | 90 | 2.21 | 8 |
| 30 | 8.36 | 26.849 | 20.87 | 0.534 | 5.98 | 90 | 2.21 | 5 |

CRUISE PSO 09 STATION 016 NEW KAMILCHE

DATE 03/08/58 HR 1748 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 11.9 STG R WSPD 00 DIR WEA 60 SEA 0 BAR 06 DRY 41.5
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.15 | 25.542 | 19.88 | 0.549 | 6.15 | 91 | 2.05 | 5 |
| 2 | 8.33 | 26.022 | 20.23 | 0.542 | 6.07 | 90 | 2.21 | 5 |
| 4 | 8.38 | 26.475 | 20.57 | 0.532 | 5.96 | 89 | 2.34 | 5 |
| 7 | 8.41 | 26.558 | 20.64 | 0.529 | 5.92 | 89 | 2.29 | 6 |
| 12 | 8.45 | 26.565 | 20.64 | 0.526 | 5.89 | 88 | 2.17 | 5 |

CRUISE PSO 09 STATION 017 BURNS POINT

DATE 03/08/58 HR 1806 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 12.6 STG R WSPD 07 DIR 170 WEA * SEA * BAR 06 DRY 40.3
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.08 | 24.957 | 19.43 | 0.557 | 6.24 | 92 | 2.34 | 7 |
| 1 | 8.37 | 26.006 | 20.21 | 0.534 | 5.98 | 89 | 2.38 | 5 |
| 2 | 8.39 | 26.045 | 20.24 | 0.532 | 5.96 | 89 | --- | 5 |
| 4 | 8.40 | 26.181 | 20.34 | 0.526 | 5.89 | 88 | 2.29 | 5 |

CRUISE PSO 09 STATION 018 SKOOKUM INLET, ENTRANCE

DATE 03/08/58 HR 1838 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 13.6 STG R WSPD 00 DIR WEA * SEA 0 BAR 06 DRY 40.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.23 | 26.116 | 20.31 | 0.544 | 6.09 | 91 | --- | 4 |
| 1 | 8.30 | 26.083 | 20.28 | 0.540 | 6.05 | 90 | 2.46 | 6 |
| 2 | 8.34 | 26.226 | 20.39 | 0.532 | 5.96 | 89 | 2.25 | 5 |

CRUISE PSO 09 STATION 019 HUNTER POINT

DATE 03/09/58 HR 812 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 14.9 STG F WSPD 06 DIR 160 WEA * SEA * BAR 14 DRY 40.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 8.17 | 27.753 | 21.60 | 0.531 | 5.95 | 89 | 2.53 | 6 |
| 2 | 8.42 | 28.069 | 21.81 | 0.521 | 5.84 | 88 | 2.61 | 5 |
| 5 | 8.41 | 28.125 | 21.86 | 0.517 | 5.79 | 88 | 2.29 | 6 |
| 10 | 8.43 | 28.121 | 21.85 | 0.518 | 5.80 | 88 | 2.20 | 5 |
| 15 | 8.49 | 28.127 | 21.85 | 0.517 | 5.79 | 88 | 2.38 | 6 |

CRUISE PSO 09 STATION 020 ELD INLET, HEAD OF

DATE 03/09/58 HR 948 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.9 STG F WSPD * DIR * WEA * SEA * BAR * DRY *
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 7.38 | 25.804 | 20.18 | 0.568 | 6.36 | 92 | 2.17 | 6 |
| 1 | 8.47 | 27.376 | 21.26 | 0.516 | 5.78 | 87 | 2.30 | 6 |
| 3 | 8.48 | 27.607 | 21.44 | 0.508 | 5.69 | 86 | 2.40 | 5 |
| 5 | 8.53 | 27.654 | 21.47 | 0.507 | 5.68 | 86 | 2.78 | 5 |
| 8 | 8.51 | 27.665 | 21.48 | 0.505 | 5.66 | 85 | 2.62 | 7 |

CRUISE PSO 09 STATION 021 FLAPJACK POINT

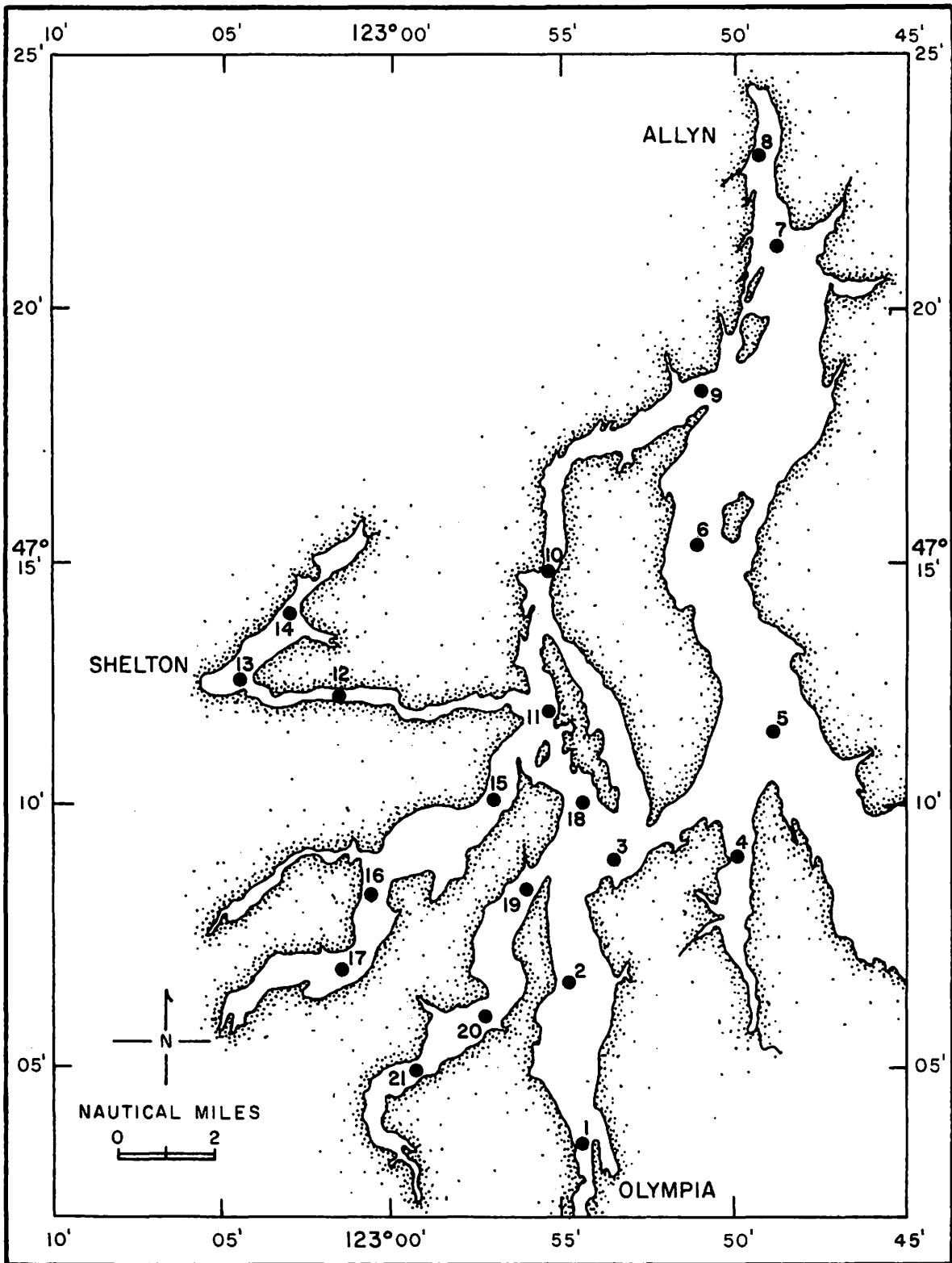
DATE 03/09/58 HR 1020 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 10.4 STG F WSPD 03 DIR 180 WEA * SEA 1 BAR 15 DRY 42.5
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.01 | 27.060 | 21.08 | 0.554 | 6.20 | 92 | 2.45 | 7 |
| 2 | 8.39 | 27.643 | 21.48 | 0.521 | 5.84 | 88 | 2.49 | 7 |
| 4 | 8.39 | 27.701 | 21.53 | 0.518 | 5.80 | 88 | 2.62 | 9 |
| 7 | 8.40 | 27.713 | 21.54 | 0.518 | 5.80 | 88 | 2.20 | 7 |
| 12 | 8.51 | 27.778 | 21.57 | 0.514 | 5.76 | 87 | 2.50 | 5 |

CRUISE PSO 09 STATION 022 COOPER POINT, SW OF

DATE 03/09/58 HR 1048 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 08.8 STG F WSPD 09 DIR 145 WEA 03 SEA 1 BAR * DRY *
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 8.11 | 27.428 | 21.35 | 0.544 | 6.09 | 91 | 2.79 | 6 |
| 5 | 8.39 | 27.905 | 21.69 | 0.519 | 5.81 | 88 | 2.37 | 8 |
| 10 | 8.43 | 27.959 | 21.73 | 0.517 | 5.79 | 87 | 2.64 | 5 |
| 15 | 8.44 | 28.036 | 21.78 | 0.517 | 5.79 | 88 | 2.48 | 6 |
| 25 | 8.52 | 28.125 | 21.84 | 0.511 | 5.72 | 87 | 2.70 | 7 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-10 5-6 APRIL 1958

CRUISE PS0010 STATION 001 BUDD INLET BUOY NO 12

DATE 04/05/58 HR 617 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 14.8 STG F WSPD 04 DIR 180 WEA 42 SEA 1 BAR 03 DRY 38.0
 CL * AMT * SCI * SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.38 | --- | --- | 0.532 | 5.96 | -- | 1.72 | - |
| 2 | 9.39 | 27.724 | 21.40 | 0.534 | 5.98 | 92 | 1.87 | 5 |
| 4 | 9.30 | 27.840 | 21.51 | 0.532 | 5.96 | 92 | 1.86 | 4 |
| 7 | 9.00 | 28.013 | --- | 0.526 | 5.89 | -- | 2.21 | 4 |
| 10 | 9.21 | 28.022 | 21.66 | 0.521 | 5.84 | 90 | 2.21 | 3 |

CRUISE PS0010 STATION 002 GULL HARBOR

DATE 04/05/58 HR 707 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 13.7 STG F WSPD 03 DIR 180 WEA 42 SEA 1 BAR 04 DRY 41.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.06 | 27.112 | 20.98 | 0.548 | 6.14 | 94 | 2.23 | 5 |
| 2 | 9.25 | 27.390 | 21.17 | 0.545 | 6.10 | 94 | 1.92 | 2 |
| 5 | 9.21 | 28.013 | 21.66 | 0.543 | 6.08 | 94 | 1.97 | 3 |
| 10 | 9.18 | 28.100 | 21.73 | 0.542 | 6.07 | 93 | 1.98 | 4 |
| 15 | 9.13 | 28.204 | 21.82 | 0.541 | 6.06 | 93 | 2.04 | 2 |

CRUISE PS0010 STATION 003 DOVER POINT

DATE 04/05/58 HR 748 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 12.2 STG F WSPD 00 DIR WEA 01 SEA 0 BAR 05 DRY 46.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.05 | 28.053 | 21.71 | 0.540 | 6.05 | 93 | 2.07 | 2 |
| 5 | 9.13 | 28.054 | 21.70 | 0.539 | 6.04 | 93 | 1.79 | 4 |
| 10 | 9.11 | 28.065 | 21.71 | 0.539 | 6.04 | 93 | 1.97 | 3 |
| 20 | 9.10 | 28.087 | 21.73 | 0.538 | 6.03 | 93 | 1.99 | 6 |
| 30 | 9.12 | 28.098 | 21.74 | 0.539 | 6.04 | 93 | 1.99 | 5 |
| 50 | 9.12 | 28.092 | 21.73 | 0.540 | 6.05 | 93 | 2.11 | 2 |

CRUISE PS0010 STATION 004 HENDERSON, MIDDLE OF

DATE 04/05/58 HR 830 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 1.0 STG F WSPD 05 DIR 360 WEA 46 SEA 1 BAR 05 DRY 46.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.23 | 27.836 | 21.52 | 0.551 | 6.17 | 95 | 1.99 | 4 |
| 2 | 9.18 | 28.026 | 21.67 | 0.537 | 6.01 | 93 | 1.96 | 4 |
| 4 | 9.19 | 28.202 | 21.81 | 0.526 | 5.89 | 91 | 2.11 | 4 |
| 7 | 9.10 | 28.294 | 21.89 | 0.488 | 5.47 | 84 | 2.28 | 4 |
| 10 | 9.11 | 28.271 | 21.87 | 0.488 | 5.47 | 84 | 2.00 | 5 |

CRUISE PS0010 STATION 005 JOHNSON POINT, N OF

DATE 04/05/58 HR 908 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 07.8 STG F WSPD 04 DIR 360 WEA 01 SEA 1 BAR 05 DRY 46.0
 CL * AMT * SCI 08 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.08 | 28.332 | 21.92 | 0.541 | 6.06 | 93 | 2.13 | 6 |
| 5 | 9.05 | 28.401 | 21.98 | 0.530 | 5.94 | 91 | 2.00 | |
| 10 | 9.47 | 28.435 | 21.95 | 0.533 | 5.97 | 93 | 2.09 | 7 |
| 20 | 8.98 | 28.430 | 22.01 | 0.490 | 5.49 | 84 | 2.02 | 8 |
| 30 | 8.99 | 28.435 | 22.02 | 0.469 | 5.25 | 81 | 1.94 | 6 |
| 50 | 8.95 | 28.601 | 22.15 | 0.509 | 5.70 | 88 | 2.15 | 6 |
| 70 | 8.93 | 28.717 | 22.25 | 0.507 | 5.68 | 87 | 2.42 | |

CRUISE PS0010 STATION 006 HERRON ISLAND

DATE 04/05/58 HR 1004 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 04.6 STG F WSPD 05 DIR 360 WEA 01 SEA 1 BAR 05 DRY 49.0
 CL * AMT * SCI 09 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.36 | 28.062 | 21.67 | 0.657 | 7.36 | 114 | 1.54 | 5 |
| 5 | 9.21 | 28.228 | 21.82 | 0.604 | 6.76 | 104 | 1.93 | 3 |
| 10 | 9.12 | 28.230 | 21.84 | 0.599 | 6.71 | 103 | 1.79 | 7 |
| 20 | 9.08 | 28.311 | 21.91 | 0.576 | 6.45 | 99 | 1.97 | 7 |
| 30 | 9.06 | 28.363 | 21.95 | 0.558 | 6.25 | 96 | 1.95 | 7 |
| 50 | 8.97 | 28.594 | 22.14 | 0.513 | 5.75 | 88 | 2.14 | 7 |

CRUISE PS0010 STATION 007 ROCKY POINT

DATE 04/05/58 HR 1120 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT .3 STG F WSPD 00 DIR WEA 00 SEA 0 BAR 05 DRY 58.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.17 | 26.468 | 20.31 | 0.579 | 6.48 | 101 | 1.47 | 5 |
| 2 | 9.87 | 27.464 | 21.13 | 0.705 | 7.90 | 123 | 1.35 | 4 |
| 5 | 9.78 | 27.780 | 21.39 | 0.686 | 7.68 | 120 | 1.33 | 4 |
| 10 | 9.09 | 28.260 | 21.87 | 0.562 | 6.29 | 97 | 2.07 | 6 |
| 15 | 9.04 | 28.327 | 21.93 | 0.529 | 5.92 | 91 | 2.01 | 4 |

CRUISE PS0010 STATION 008 ALLYN

DATE 04/05/58 HR 1155 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT .6 STG L WSPD 00 DIR WEA 00 SEA 0 BAR 05 DRY 63.0
 CL * AMT * SCI * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.08 | 26.455 | 20.16 | 0.656 | 7.35 | 117 | 1.55 | 6 |
| 1 | 10.24 | 27.580 | 21.16 | 0.650 | 7.28 | 114 | 1.61 | 6 |

CRUISE PS0010 STATION 009 DOUGALL POINT

DATE 04/05/58 HR 1250 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT .7 STG L WSPD 00 DIR WEA 00 SEA 0 BAR 05 DRY 63.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.07 | 27.730 | 21.31 | 0.443 | 4.96 | 78 | 1.79 | 4 |
| 5 | 9.22 | 27.883 | 21.55 | --- | --- | --- | 1.75 | 5 |
| 10 | 9.22 | 27.950 | 21.61 | 0.557 | 6.24 | 96 | 1.89 | 5 |
| 15 | 9.14 | 27.997 | 21.65 | 0.535 | 5.99 | 91 | 2.10 | 7 |
| 25 | 9.15 | 28.002 | 21.66 | 0.454 | 5.08 | 78 | 2.04 | 7 |

CRUISE PS0010 STATION 010 GRAHAM POINT

DATE 04/05/58 HR 1353 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 01.2 STG R WSPD 07 DIR 315 WEA 00 SEA 0 BAR 05 DRY 58.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.70 | 26.921 | 20.73 | 0.498 | 5.58 | 86 | 2.14 | 5 |
| 5 | 9.44 | 26.948 | 20.79 | 0.518 | 5.80 | 89 | 2.39 | 5 |
| 10 | 9.62 | 26.964 | 20.78 | 0.519 | 5.81 | 90 | 1.78 | 6 |
| 15 | 9.60 | 27.036 | 20.84 | 0.482 | 5.40 | 83 | 1.92 | 5 |

CRUISE PS0010 STATION 011 ARCADIA

DATE 04/05/58 HR 1424 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 02.8 STG R WSPD 05 DIR 290 WEA 00 SEA 1 BAR 04 DRY 58.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.00 | 26.305 | 20.21 | 0.485 | 5.43 | 84 | 1.93 | 6 |
| 2 | 9.73 | 26.645 | 20.51 | 0.481 | 5.39 | 83 | 2.07 | 5 |
| 5 | 9.65 | 27.063 | 20.85 | 0.496 | 5.56 | 86 | 2.04 | 5 |
| 10 | 9.59 | 27.119 | 20.90 | 0.525 | 5.88 | 91 | 1.86 | 5 |

CRUISE PS0010 STATION 012 CHURCH POINT, W OF

DATE 04/05/58 HR 1505 ZN 08 LAT 47-12.4N LONG 122-01.0W AREA HAM
 TIDE HT 01.7 STG R WSPD 00 DIR WEA 00 SEA 0 BAR 04 DRY 64.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.21 | 24.759 | 18.98 | 0.531 | 5.95 | 92 | 1.82 | 6 |
| 2 | 9.97 | 24.813 | 19.06 | 0.479 | 5.36 | 82 | 1.85 | 4 |
| 4 | 9.97 | 24.831 | 19.07 | 0.537 | 6.01 | 92 | 1.89 | 4 |
| 7 | 9.93 | 24.849 | 19.09 | 0.527 | 5.90 | 90 | 1.94 | 6 |

CRUISE PS0010 STATION 013 SHELTON

DATE 04/05/58 HR 1527 ZN 08 LAT 47-12.7N LONG 122-04.4W AREA OAK
 TIDE HT 03.0 STG R WSPD 00 DIR WEA 00 SEA 0 BAR 04 DRY 73.0
 CL * AMT * SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.23 | 24.172 | 18.52 | 0.539 | 6.04 | 93 | 1.90 | 6 |
| 2 | 10.23 | 24.271 | 18.60 | 0.520 | 5.82 | 90 | 2.02 | 6 |
| 4 | 10.17 | 24.361 | 18.68 | 0.541 | 6.06 | 93 | 1.91 | 7 |
| 7 | 10.13 | 24.379 | 18.70 | 0.544 | 6.09 | 93 | 2.06 | 5 |

CRUISE PS0010 STATION 014 CHAPMAN COVE, NW OF

DATE 04/05/58 HR 1650 ZN 08 LAT 47-14.1N LONG 122-03.0W AREA OAK
 TIDE HT 07.9 STG R WSPD 03 DIR 270 WEA 00 SEA 1 BAR 03 DRY 63.0
 CL * AMT * SCI 04 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.21 | 22.358 | 16.97 | 0.602 | 6.74 | 105 | 1.85 | 5 |
| 1 | 10.50 | 23.008 | 17.58 | 0.592 | 6.63 | 102 | 1.82 | 6 |
| 2 | 10.02 | 23.991 | 18.41 | 0.564 | 6.32 | 96 | 1.93 | 6 |

CRUISE PS0010 STATION 015 WINDY PT. NE OF

DATE 04/05/58 HR 1748 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 14.0 STG R WSPD 00 DIR WEA 00 SEA 0 BAR 02 DRY 62.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.68 | 27.358 | 21.08 | 0.506 | 5.67 | 88 | 2.17 | 6 |
| 2 | 9.75 | 27.367 | 21.07 | 0.498 | 5.58 | 87 | 2.19 | 6 |
| 5 | 9.73 | 27.367 | 21.08 | 0.525 | 5.88 | 91 | 2.21 | 6 |
| 10 | 9.69 | 27.378 | 21.09 | 0.549 | 6.15 | 95 | 2.36 | 5 |
| 20 | 9.67 | 27.423 | 21.13 | 0.507 | 5.68 | 88 | 2.42 | 6 |
| 30 | 9.56 | 27.686 | 21.35 | 0.545 | 6.10 | 95 | 2.24 | 6 |

CRUISE PS0010 STATION 016 NEW KAMILCHE

DATE 04/05/58 HR 1825 ZN 08 LAT 47-08.4N LONG 122-00.8W AREA TOT
 TIDE HT 14.6 STG H WSPD 00 DIR WEA 00 SEA 0 BAR 02 DRY 57.0
 CL * AMT * SCI * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.98 | 26.793 | 20.43 | 0.489 | 5.48 | 87 | 2.02 | 6 |
| 2 | 9.93 | 27.018 | 20.77 | 0.545 | 6.10 | 95 | 2.17 | 7 |
| 4 | 9.72 | 27.152 | 20.91 | 0.525 | 5.88 | 91 | 2.19 | 8 |
| 7 | 9.64 | 27.172 | 20.94 | 0.521 | 5.84 | 90 | 2.30 | 7 |
| 12 | 9.66 | 27.183 | 20.94 | 0.436 | 4.88 | 76 | 2.33 | 8 |

CRUISE PS0010 STATION 017 BURNS POINT

DATE 04/05/58 HR 1849 ZN 08 LAT 47-07.0N LONG 122-01.6W AREA TOT
 TIDE HT 14.7 STG H WSPD 00 DIR WEA 00 SEA 0 BAR 02 DRY 56.0
 CL * AMT * SCI * SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.11 | 26.726 | 20.52 | 0.538 | 6.03 | 94 | 2.17 | 5 |
| 1 | 10.11 | 26.757 | 20.54 | 0.548 | 6.14 | 96 | 2.17 | 5 |
| 2 | 10.06 | 26.776 | 20.57 | 0.501 | 5.61 | 87 | 2.28 | 5 |
| 4 | 10.00 | 26.775 | 20.57 | 0.545 | 6.10 | 95 | 2.28 | 5 |

CRUISE PS0010 STATION 018 HUNTER POINT

DATE 04/06/58 HR 635 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 14.8 STG H WSPD 00 DIR WEA 00 SEA 0 BAR 01 DRY 45.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.15 | 28.249 | 21.85 | 0.530 | 5.94 | 91 | 2.25 | 4 |
| 2 | 9.22 | 28.248 | 21.84 | --- | --- | --- | 2.23 | 5 |
| 5 | 9.22 | 28.246 | 21.84 | 0.544 | 6.09 | 94 | 2.28 | 6 |
| 10 | 9.19 | 28.258 | 21.85 | 0.539 | 6.04 | 93 | 2.11 | 4 |
| 15 | 9.22 | 28.249 | 21.84 | 0.524 | 5.87 | 91 | 2.17 | 8 |

CRUISE PS0010 STATION 019 COOPER POINT, SW OF

DATE 04/06/58 HR 708 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 14.2 STG F WSPD 03 DIR 180 WEA 00 SEA 1 BAR 01 DRY 50.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.25 | 28.036 | 21.67 | 0.542 | 6.07 | 94 | 2.14 | 7 |
| 5 | 9.28 | 28.094 | 21.71 | 0.542 | 6.07 | 94 | 2.01 | 8 |
| 10 | 9.27 | 28.098 | 21.71 | 0.544 | 6.09 | 94 | 2.11 | 7 |
| 15 | 9.22 | 28.146 | 21.76 | 0.544 | 6.09 | 94 | 2.24 | 6 |
| 25 | 9.18 | 28.275 | 21.86 | 0.543 | 6.08 | 94 | 2.42 | 6 |

CRUISE PS0010 STATION 020 FLAPJACK POINT

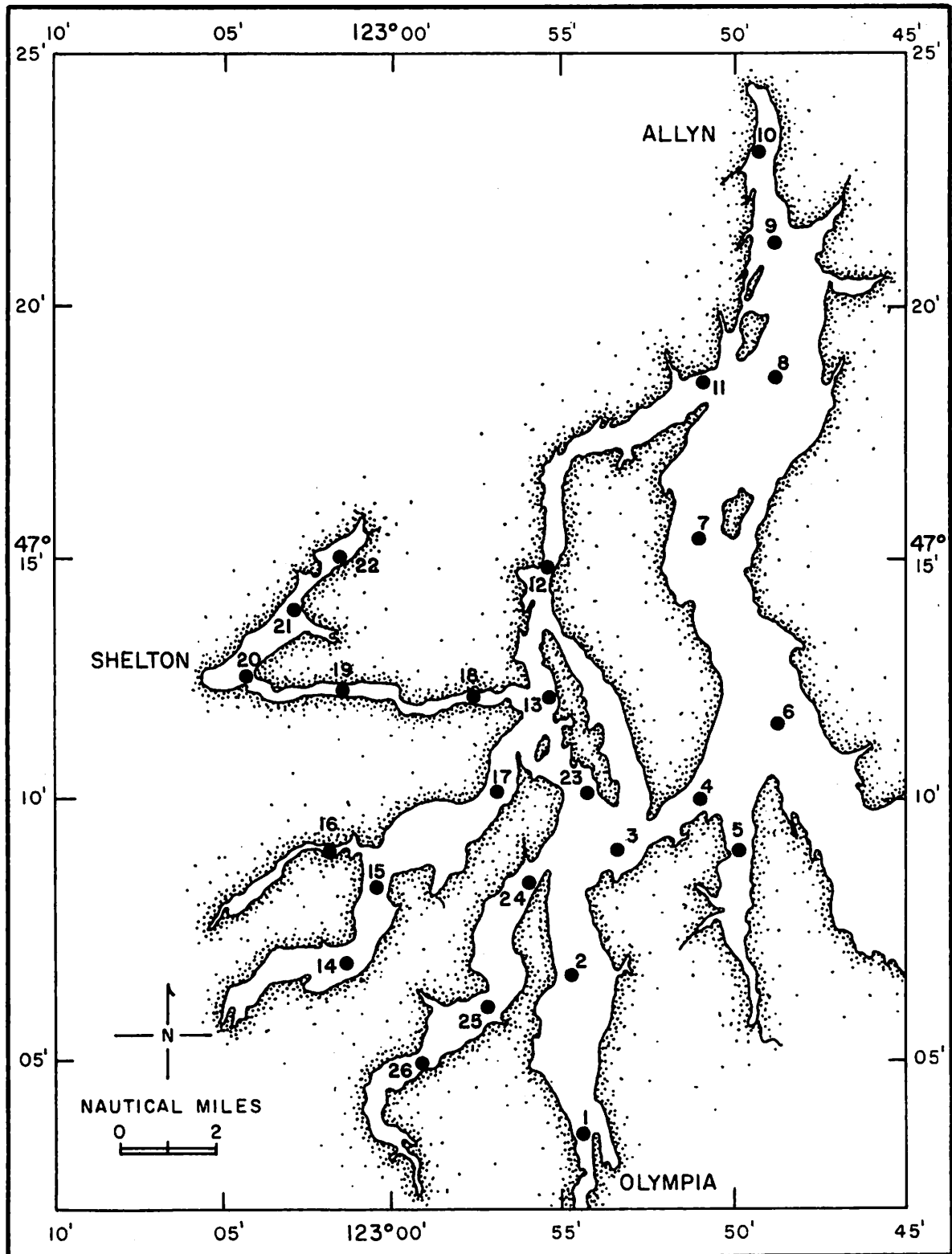
DATE 04/06/58 HR 745 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 12.8 STG F WSPD 04 DIR 200 WEA 00 SEA 1 BAR 01 DRY 53.0
 CL * AMT * SCI 07 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.69 | 27.466 | 21.16 | 0.485 | 5.43 | 84 | 2.17 | 5 |
| 2 | 9.77 | 27.609 | 21.26 | 0.557 | 6.24 | 97 | 2.10 | 6 |
| 4 | 9.58 | 27.854 | 21.48 | 0.554 | 6.20 | 96 | 2.21 | 6 |
| 7 | 9.47 | 27.897 | 21.53 | 0.548 | 6.14 | 95 | 2.14 | 6 |
| 12 | 9.39 | 27.932 | 21.57 | 0.540 | 6.61 | 102 | 2.83 | 7 |

CRUISE PS0010 STATION 021 ELD INLET, HEAD OF

DATE 04/06/58 HR 813 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.4 STG F WSPD 04 DIR 225 WEA 00 SEA 1 BAR 01 DRY 60.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.82 | 26.906 | 20.70 | 0.594 | 6.65 | 103 | 1.73 | 4 |
| 1 | 9.91 | 27.132 | 20.87 | 0.584 | 6.54 | 102 | 1.82 | 5 |
| 2 | 9.88 | 27.276 | 20.98 | 0.577 | 6.46 | 101 | 1.97 | 4 |
| 4 | 9.65 | 27.717 | 21.36 | 0.559 | 6.26 | 97 | 1.83 | 5 |
| 7 | 9.54 | 27.791 | 21.43 | 0.544 | 6.09 | 94 | 1.66 | 5 |
| 10 | 9.49 | 27.849 | 21.49 | 0.534 | 5.98 | 93 | 1.93 | 5 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-II 26-27 APRIL 1958

CRUISE PSO 11 STATION 001 BUDD INLET BUOY NO 12

DATE 04/26/58 HR 551 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 06.6 STG R WSPD 04 DIR 180 WEA 00 SEA * BAR 11 DRY 35.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.82 | 19.140 | 14.68 | 0.593 | 6.64 | 98 | 1.39 | 6 |
| 2 | 10.62 | 26.750 | 20.46 | 0.651 | 7.29 | 115 | 1.12 | 6 |
| 4 | 9.88 | 27.860 | 21.44 | 0.561 | 6.28 | 98 | 1.54 | 6 |
| 7 | 9.92 | 27.970 | 21.51 | 0.533 | 5.97 | 93 | 1.49 | 7 |
| 10 | 9.82 | 27.992 | 21.55 | 0.505 | 5.66 | 88 | 1.49 | 6 |

CRUISE PSO 11 STATION 002 GULL HARBOR

DATE 04/26/58 HR 653 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 08.1 STG R WSPD 05 DIR 180 WEA 02 SEA 1 BAR 11 DRY 38.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.30 | 25.985 | 19.92 | 0.624 | 6.99 | 109 | 1.31 | 7 |
| 2 | 9.74 | 28.013 | 21.58 | 0.547 | 6.13 | 95 | 1.66 | 5 |
| 5 | 9.73 | 28.126 | 21.67 | 0.525 | 5.88 | 92 | 1.90 | 6 |
| 10 | 9.74 | 28.129 | 21.67 | 0.519 | 5.81 | 91 | 1.82 | 7 |
| 15 | 9.72 | 28.150 | 21.69 | 0.532 | 5.96 | 93 | 1.78 | 6 |

CRUISE PSO 11 STATION 003 DOVER POINT

DATE 04/26/58 HR 738 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 09.8 STG R WSPD 01 DIR 300 WEA 46 SEA 1 BAR 11 DRY 43.5
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.88 | 26.307 | 20.23 | 0.646 | 7.24 | 112 | 1.49 | 5 |
| 5 | 9.64 | 28.142 | 21.69 | 0.532 | 5.96 | 93 | 1.67 | 8 |
| 10 | 9.56 | 28.329 | 21.85 | 0.537 | 6.01 | 94 | 1.86 | 5 |
| 20 | 9.58 | 28.404 | 21.90 | 0.530 | 5.94 | 92 | 1.80 | 5 |
| 30 | 9.54 | 28.417 | 21.92 | 0.530 | 5.94 | 92 | 2.01 | 7 |
| 50 | 9.54 | 28.393 | 21.90 | 0.532 | 5.96 | 93 | 1.68 | - |

CRUISE PSO 11 STATION 004 DICKENSON POINT

DATE 04/26/58 HR 809 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 TIDE HT 10.6 STG R WSPD 00 DIR WEA 44 SEA 0 BAR 11 DRY 45.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|---------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | ---.--- | 27.974 | ---.--- | 0.606 | 6.79 | --- | 1.63 | 6 |
| 5 | ---.--- | 28.183 | ---.--- | 0.562 | 6.29 | --- | 1.94 | 6 |
| 10 | ---.--- | 28.517 | ---.--- | 0.532 | 5.96 | --- | 2.20 | 7 |
| 20 | ---.--- | 28.595 | ---.--- | 0.519 | 5.81 | --- | 2.15 | 8 |
| 30 | ---.--- | 28.695 | ---.--- | 0.519 | 5.81 | --- | 2.13 | 9 |

CRUISE PSO 11 STATION 005 HENDERSON INLET, MIDDLE OF

DATE 04/26/58 HR 839 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 11.2 STG R WSPD 00 DIR WEA 42 SEA 0 BAR 10 DRY 45.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.44 | 27.171 | 20.81 | 0.621 | 6.96 | 110 | 1.67 | 6 |
| 2 | 9.99 | 28.008 | 21.53 | 0.604 | 6.76 | 106 | 1.63 | 5 |
| 4 | 9.92 | 28.031 | 21.56 | 0.577 | 6.46 | 101 | 1.59 | 5 |
| 7 | 9.81 | 28.213 | 21.72 | 0.543 | 6.08 | 95 | 2.01 | 5 |
| 10 | 9.65 | 28.328 | 21.83 | 0.531 | 5.95 | 93 | 2.13 | 6 |
| 13 | 9.52 | 28.416 | 21.92 | 0.504 | 5.64 | 88 | -.-- | - |

CRUISE PSO 11 STATION 006 JOHNSON POINT, N OF

DATE 04/26/58 HR 915 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 11.5 STG H WSPD 00 DIR WEA 00 SEA 0 BAR 11 DRY 49.5
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 9.62 | 28.108 | 21.67 | 0.575 | 6.44 | 100 | 1.94 | 8 |
| 5 | 9.36 | 28.674 | 22.15 | 0.518 | 5.80 | 90 | 2.06 | 8 |
| 10 | 9.34 | 28.738 | 22.20 | 0.513 | 5.75 | 89 | 2.29 | 6 |
| 20 | 9.35 | 28.741 | 22.20 | 0.511 | 5.72 | 89 | 2.17 | 6 |
| 30 | 9.35 | 28.750 | 22.21 | 0.510 | 5.71 | 89 | 2.17 | 6 |
| 50 | 9.36 | 28.743 | 22.20 | 0.508 | 5.69 | 88 | 2.44 | 6 |
| 70 | 9.35 | 28.644 | 22.13 | 0.514 | 5.76 | 89 | 2.25 | 7 |

CRUISE PSO 11 STATION 007 HERRON ISLAND

DATE 04/26/58 HR 1006 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 11.2 STG F WSPD 03 DIR 175 WEA 00 SEA 1 BAR 11 DRY 50.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.83 | 26.994 | 20.61 | 0.765 | 8.57 | 136 | 0.66 | 4 |
| 5 | 9.35 | 28.662 | 22.14 | 0.509 | 5.70 | 89 | 1.89 | 4 |
| 10 | 9.36 | 28.656 | 22.13 | 0.510 | 5.71 | 89 | 2.18 | 6 |
| 20 | 9.36 | 28.728 | 22.19 | 0.504 | 5.64 | 88 | 2.08 | 5 |
| 30 | 9.32 | 28.692 | 22.17 | 0.507 | 5.68 | 88 | 2.29 | 6 |
| 50 | 9.37 | 28.639 | 22.12 | 0.509 | 5.70 | 89 | 2.17 | 6 |

CRUISE PSO 11 STATION 008 DUTCHERS COVE

DATE 04/26/58 HR 1056 ZN 08 LAT 47-18.6N LONG 122-48.9W AREA CSE
 TIDE HT 10.2 STG F WSPD 06 DIR 185 WEA 00 SEA * BAR 10 DRY 51.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.62 | 25.859 | 19.61 | 0.737 | 8.25 | 132 | 0.68 | 7 |
| 5 | 9.54 | 28.291 | 21.82 | 0.536 | 6.00 | 93 | 1.98 | 5 |
| 10 | 9.47 | 28.487 | 21.99 | 0.533 | 5.97 | 93 | 2.42 | 7 |
| 25 | 9.42 | 28.584 | 22.07 | 0.502 | 5.62 | 87 | 2.25 | 8 |

CRUISE PSO 11 STATION 009 ROCKY POINT

DATE 04/26/58 HR 1130 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 09.1 STG F WSPD 10 DIR 180 WEA 01 SEA 1 BAR 11 DRY 52.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.96 | 24.720 | 18.67 | 0.718 | 8.04 | 129 | 0.68 | 7 |
| 2 | 11.14 | 27.788 | 21.18 | 0.697 | 7.81 | 125 | 1.16 | 8 |
| 5 | 9.74 | 28.189 | 21.71 | 0.498 | 5.58 | 87 | 1.79 | 9 |
| 10 | 9.56 | 28.301 | 21.83 | 0.484 | 5.42 | 84 | 2.03 | 7 |
| 15 | 9.50 | 28.366 | 21.89 | 0.478 | 5.35 | 83 | 1.98 | 7 |

CRUISE PSO 11 STATION 010 ALLYN

DATE 04/26/58 HR 1152 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 08.4 STG F WSPD 07 DIR 180 WEA 02 SEA 1 BAR 10 DRY 52.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.98 | 23.880 | 18.02 | 0.808 | 9.05 | 144 | 0.87 | 7 |
| 1 | 10.74 | 27.497 | 21.02 | 0.763 | 8.55 | 136 | 0.81 | 6 |
| 2 | 10.61 | 27.524 | 21.06 | 0.630 | 7.06 | 112 | 0.89 | 8 |
| 4 | 10.46 | 27.589 | 21.13 | 0.591 | 6.62 | 105 | 1.18 | 5 |

CRUISE PSO 11 STATION 011 DOUGALL POINT

DATE 04/26/58 HR 1245 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 06.6 STG F WSPD 04 DIR 190 WEA 00 SEA 1 BAR 10 DRY 55.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.01 | 26.452 | 20.00 | 0.789 | 8.84 | 143 | 0.50 | 7 |
| 5 | 9.81 | 28.032 | 21.58 | 0.591 | 6.62 | 103 | 1.53 | 7 |
| 10 | 9.62 | 28.238 | 21.77 | 0.550 | 6.16 | 96 | 1.96 | 9 |
| 15 | 9.49 | 28.473 | 21.97 | 0.510 | 5.71 | 89 | 1.94 | 10 |
| 25 | 9.40 | 28.520 | 22.02 | 0.501 | 5.61 | 87 | 1.94 | 8 |

CRUISE PSO 11 STATION 012 GRAHAM POINT

DATE 04/26/58 HR 1324 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 05.2 STG F WSPD * DIR * WEA 00 SEA * BAR 10 DRY 56.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.80 | 26.781 | 20.45 | 0.606 | 6.79 | 107 | 1.55 | 8 |
| 5 | 10.30 | 27.082 | 20.77 | 0.580 | 6.50 | 102 | 1.78 | 10 |
| 10 | 9.93 | 27.641 | 21.26 | 0.550 | 6.16 | 96 | 1.90 | 8 |
| 15 | 9.90 | 27.733 | 21.33 | 0.540 | 6.05 | 94 | 1.85 | 10 |

CRUISE PSO 11 STATION 013 ARCADIA

DATE 04/26/58 HR 1423 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 03.3 STG F WSPD * DIR * WEA 00 SEA BAR 10 DRY 54.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.25 | 26.419 | 20.10 | 0.647 | 7.25 | 116 | 1.28 | 9 |
| 3 | 11.10 | 26.499 | 20.19 | 0.633 | 7.09 | 113 | 1.30 | 8 |
| 8 | 11.29 | 26.473 | 20.13 | 0.650 | 7.28 | 116 | 1.52 | 7 |

CRUISE PSO 11 STATION 014 BURNS POINT

DATE 04/26/58 HR 1525 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 01.8 STG F WSPD * DIR * WEA 00 SEA * BAR 10 DRY 52.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.86 | 23.620 | 17.84 | 0.602 | 6.74 | 107 | 1.44 | 6 |
| 1 | 12.46 | 24.515 | 18.42 | 0.581 | 6.51 | 105 | 1.51 | 7 |

CRUISE PSO 11 STATION 015 NEW KAMILCHE

DATE 04/26/58 HR 1553 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 01.4 STG F WSPD 06 DIR 180 WEA 00 SEA 1 BAR 10 DRY 52.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|---------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.58 | 24.640 | 18.50 | 0.624 | 6.99 | 113 | 1.38 | 4 |
| 2 | 10.94 | 26.084 | 19.89 | 0.647 | 7.25 | 115 | 1.05 | 4 |
| 5 | 10.66 | 26.591 | 20.33 | 0.607 | 6.80 | 107 | 1.78 | 4 |
| 10 | ---.--- | 26.605 | ---.--- | 0.594 | 6.65 | --- | 1.70 | 5 |

CRUISE PSO 11 STATION 016 SKOOKUM INLET, ENTRANCE

DATE 04/26/58 HR 1619 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 01.2 STG F WSPD 10 DIR 190 WEA 00 SEA 1 BAR 10 DRY 51.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|---------|---------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 1 | 12.46 | 19.620 | 14.66 | 0.660 | 7.39 | 116 | 1.32 | 6 |
| 2 | ---.--- | ---.--- | ---.--- | 0.619 | 6.93 | --- | 1.51 | 6 |

CRUISE PSO 11 STATION 017 WINDY PT. NE OF

DATE 04/26/58 HR 1709 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 01.1 STG L WSPD 18 DIR 190 WEA 00 SEA 2 BAR 09 DRY *
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.56 | 25.829 | 19.59 | 0.668 | 7.48 | 120 | 1.48 | 5 |
| 3 | 11.32 | --- | --- | --- | --- | --- | --- | --- |
| 8 | 10.36 | 26.909 | 20.62 | 0.561 | 6.28 | 99 | 1.70 | 6 |
| 18 | 10.26 | 26.936 | 20.66 | 0.570 | 6.38 | 100 | 1.75 | 7 |
| 28 | 10.30 | 26.951 | 20.66 | 0.574 | 6.43 | 101 | 1.52 | 6 |

CRUISE PSO 11 STATION 018 CANNERY POINT

DATE 04/26/58 HR 1745 ZN 08 LAT 47-12.2N LONG 122-57.7W AREA HAM
 TIDE HT 01.4 STG R WSPD 04 DIR 190 WEA 03 SEA 1 BAR 09 DRY 52.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.17 | 23.070 | 17.52 | 0.477 | 5.34 | 83 | 1.51 | 6 |
| 2 | 11.24 | 23.080 | 17.52 | 0.521 | 5.84 | 91 | 1.48 | 6 |

CRUISE PSO 11 STATION 019 CHURCH POINT, W OF

DATE 04/26/58 HR 1814 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 0.7 STG L WSPD 08 DIR 240 WEA 00 SEA 1 BAR 09 DRY 50.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.36 | 21.950 | 16.63 | 0.558 | 6.25 | 97 | 1.32 | 8 |
| 2 | 11.32 | 22.565 | 17.11 | 0.429 | 4.80 | 75 | 1.51 | 8 |
| 5 | 11.13 | 23.080 | 17.54 | 0.457 | 5.12 | 80 | 1.39 | 6 |
| 8 | 11.21 | 23.080 | 17.53 | 0.547 | 6.13 | 95 | 1.98 | 5 |

CRUISE PSO 11 STATION 020 SHELTON

DATE 04/26/58 HR 1838 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 01.0 STG R WSPD 07 DIR 240 WEA 00 SEA 1 BAR * DRY *
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.57 | 19.060 | 14.37 | 0.529 | 5.92 | 91 | 1.20 | 7 |
| 2 | 11.46 | 21.680 | 16.40 | 0.538 | 6.03 | 94 | 1.43 | 6 |
| 4 | 11.14 | 23.180 | 17.61 | 0.543 | 6.08 | 95 | 1.53 | 8 |
| 7 | 11.07 | 23.480 | 17.86 | 0.544 | 6.09 | 95 | 1.66 | 9 |

CRUISE PSO 11 STATION 021 CHAPMAN COVE, NW OF

DATE 04/26/58 HR 1904 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 01.6 STG R WSPD 02 DIR 240 WEA 00 SEA 1 BAR 08 DRY 48.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.54 | 18.780 | 14.00 | 0.555 | 6.22 | 97 | 1.31 | 6 |
| 1 | 12.56 | 20.730 | 15.49 | 0.599 | 6.71 | 106 | 1.51 | 5 |
| 2 | 11.24 | 22.475 | 17.05 | 0.572 | 6.41 | 100 | 1.77 | 5 |
| 4 | 11.09 | 23.170 | 17.61 | 0.551 | 6.17 | 96 | 1.73 | 4 |

CRUISE PSO 11 STATION 022 NARROWS, N OF

DATE 04/26/58 HR 1929 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 02.4 STG R WSPD 02 DIR 200 WEA 00 SEA 1 BAR 08 DRY 45.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.26 | --- | --- | 0.508 | 5.69 | --- | 1.16 | 7 |
| 1 | 12.06 | 20.470 | 15.38 | 0.514 | 5.76 | 90 | 1.47 | 7 |
| 2 | 11.37 | 21.685 | 16.42 | --- | --- | --- | 1.56 | 5 |
| 4 | 11.32 | 21.830 | 16.54 | --- | --- | --- | 1.70 | 5 |
| 7 | 11.34 | 21.910 | 16.60 | 0.590 | 6.61 | 103 | 1.85 | 5 |

CRUISE PSO 11 STATION 023 HUNTER POINT

DATE 04/27/58 HR 709 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 06.0 STG R WSPD 01 DIR 240 WEA 00 SEA 1 BAR 10 DRY 42.0
 CL * AMT * SCI 05 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.30 | 27.037 | 20.73 | 0.579 | 6.48 | 102 | 1.39 | 3 |
| 2 | 10.26 | 27.326 | 20.96 | 0.504 | 5.64 | 89 | 1.54 | 4 |
| 5 | 9.86 | 27.993 | 21.54 | 0.564 | 6.32 | 99 | 1.62 | 4 |
| 10 | 9.80 | 27.959 | 21.52 | 0.539 | 6.04 | 94 | 1.59 | 4 |
| 15 | 9.82 | 28.000 | 21.55 | 0.591 | 6.62 | 103 | 1.71 | 4 |

CRUISE PSO 11 STATION 024 COOPER POINT, SW OF

DATE 04/27/58 HR 751 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 07.0 STG R WSPD 01 DIR 210 WEA 00 SEA 1 BAR 10 DRY 43.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.85 | 26.750 | 20.42 | 0.843 | 9.44 | 150 | 0.69 | 3 |
| 5 | 9.88 | 27.834 | 21.42 | 0.532 | 5.96 | 93 | 1.85 | 4 |
| 10 | 9.91 | 27.887 | 21.45 | 0.565 | 6.33 | 99 | 1.80 | 5 |
| 15 | 9.84 | 27.979 | 21.53 | 0.554 | 6.20 | 97 | 1.87 | 6 |
| 25 | 9.82 | 28.087 | 21.62 | 0.515 | 5.77 | 90 | 1.90 | 5 |

CRUISE PSO 11 STATION Q25 FLAPJACK POINT

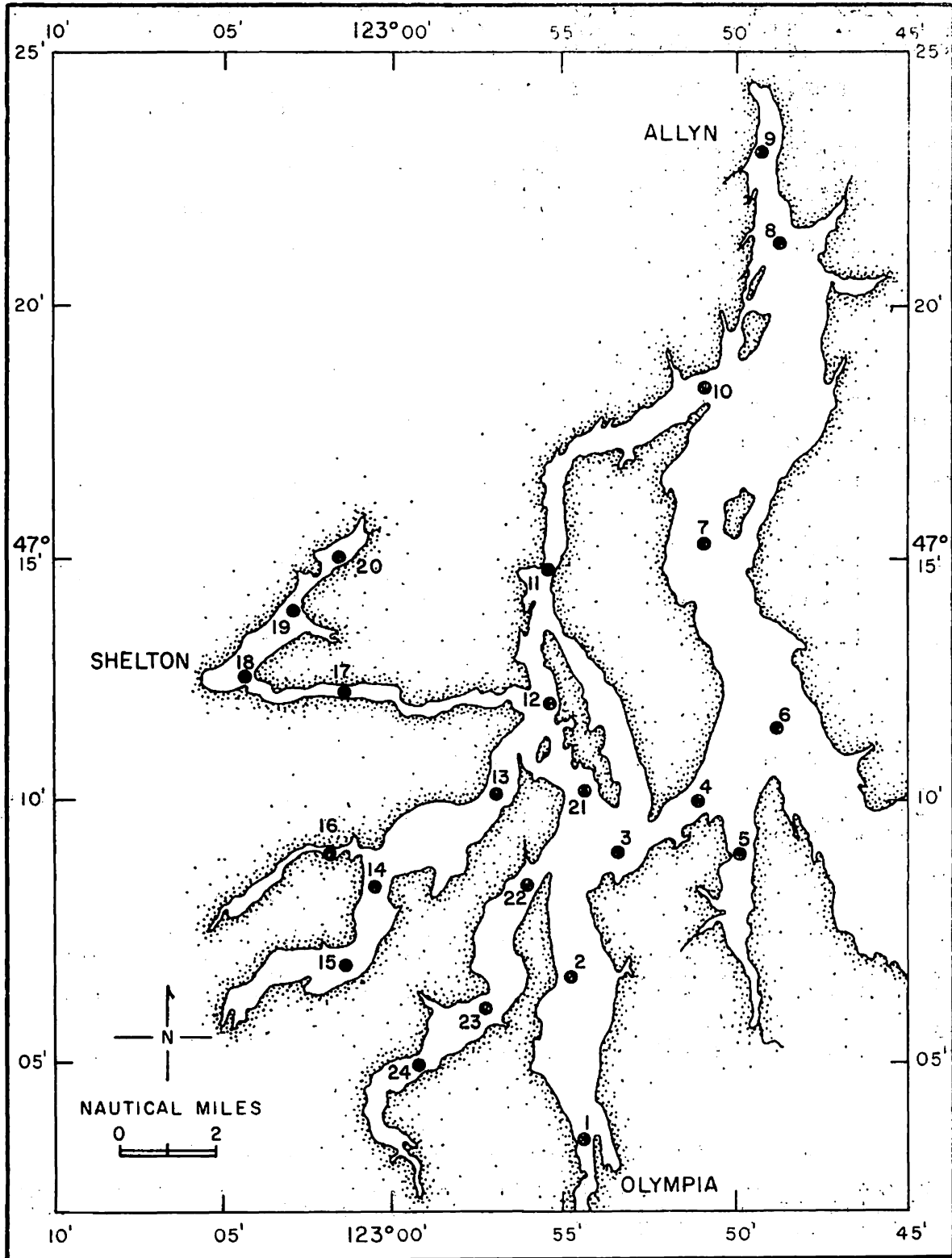
DATE 04/27/58 HR 823 ZN 08 LAT 47-06.3N LONG 122-57.3W AREA ELD
 TIDE HT 08.1 STG R WSPD 06 DIR 200 WEA 00 SEA 1 BAR 10 DRY 43.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.47 | 26.225 | 19.91 | 0.908 | 10.17 | 163 | 0.74 | 4 |
| 2 | 10.22 | 27.620 | 21.20 | 0.590 | 6.61 | 104 | 1.42 | 6 |
| 4 | 10.00 | 27.810 | 21.38 | 0.458 | 5.13 | 80 | 1.82 | 5 |
| 7 | 9.96 | 27.803 | 21.38 | 0.493 | 5.52 | 86 | 1.99 | 7 |
| 12 | 9.98 | 27.822 | 21.39 | 0.451 | 5.05 | 79 | 1.98 | 6 |

CRUISE PSO 11 STATION 026 ELD INLET, HEAD OF

DATE 04/27/58 HR 950 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 1.6 STG R WSPD 02 DIR 100 WEA 46 SEA 1 BAR 10 DRY 43.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 10.97 | 26.065 | 19.87 | 0.741 | 8.30 | 131 | 0.86 | 5 |
| 1 | 10.70 | 27.356 | 20.92 | 0.728 | 8.15 | 129 | 1.09 | 7 |
| 2 | 10.50 | 27.519 | 21.07 | 0.503 | 5.63 | 89 | 1.16 | 4 |
| 4 | 10.32 | 27.595 | 21.16 | 0.635 | 7.11 | 112 | 1.19 | 4 |
| 7 | 10.36 | 27.756 | 21.28 | 0.585 | 6.55 | 103 | 1.40 | 6 |
| 10 | 10.26 | 27.612 | 21.18 | 0.560 | 6.27 | 99 | 1.51 | 4 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-12 24-25 MAY 1958

CRUISE PSO 12 STATION 001 BUDD INLET BUOY NO 12

DATE 05/24/58 HR 609 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 09.2 STG R WSPD 03 DIR 020 WEA 03 SEA 1 BAR 06 DRY 60.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.31 | 21.310 | 15.44 | 0.645 | 7.22 | 122 | 2.20 | 4 |
| 2 | 13.56 | 27.993 | 20.90 | 0.856 | 9.59 | 162 | 1.30 | 5 |
| 4 | 12.74 | 28.198 | 21.21 | 0.754 | 8.44 | 141 | 1.44 | 7 |
| 7 | 12.15 | 28.193 | 21.32 | 0.667 | 7.47 | 123 | 1.80 | 8 |
| 10 | 12.02 | 28.234 | 21.37 | 0.653 | 7.31 | 120 | 2.02 | 7 |

CRUISE PSO 12 STATION 002 GULL HARBOR

DATE 05/24/58 HR 657 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 1.8 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 61.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.71 | 26.226 | 19.11 | 0.780 | 8.74 | 153 | 1.23 | 7 |
| 2 | 12.96 | 28.247 | 21.21 | 0.703 | 7.87 | 132 | 1.37 | 7 |
| 5 | 12.12 | 28.355 | 21.45 | 0.637 | 7.13 | 118 | 1.66 | 7 |
| 10 | 11.80 | 28.381 | 21.52 | 0.622 | 6.97 | 114 | 1.56 | 7 |
| 15 | 11.91 | 28.426 | 21.54 | 0.607 | 6.80 | 112 | 1.84 | 8 |

CRUISE PSO 12 STATION 003 DOVER POINT

DATE 05/24/58 HR 738 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 11.6 STG R WSPD 08 DIR 045 WEA 01 SEA 1 BAR 06 DRY 59.5
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.92 | 28.405 | 21.52 | 0.614 | 6.88 | 113 | 1.73 | 6 |
| 5 | 11.91 | 28.422 | 21.53 | 0.612 | 6.85 | 113 | 1.60 | 2 |
| 10 | 11.95 | 28.431 | 21.53 | 0.614 | 6.88 | 113 | 1.74 | 9 |
| 20 | 11.78 | 28.443 | 21.57 | 0.620 | 6.94 | 114 | 1.73 | 9 |
| 30 | 11.66 | 28.502 | 21.64 | 0.600 | 6.72 | 110 | 1.84 | 7 |
| 50 | 11.27 | 28.593 | 21.78 | 0.580 | 6.50 | 105 | 1.81 | 8 |

CRUISE PSO 12 STATION 004 DICKENSON POINT

DATE 05/24/58 HR 811 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 TIDE HT 11.7 STG H WSPD 03 DIR 020 WEA 02 SEA 1 BAR 06 DRY 59.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 12.33 | 28.314 | 21.38 | 0.643 | 7.20 | 119 | 1.62 | 7 |
| 5 | 11.78 | 28.464 | 21.59 | 0.608 | 6.81 | 112 | 2.07 | 7 |
| 10 | 11.70 | 28.489 | 21.62 | 0.571 | 6.40 | 105 | 1.88 | 7 |
| 20 | 11.36 | 28.559 | 21.74 | 0.575 | 6.44 | 105 | 1.88 | 7 |
| 30 | 11.58 | 28.623 | 21.75 | 0.578 | 6.47 | 106 | 1.86 | 7 |

CRUISE PSO 12 STATION 005 HENDERSON INLET, ENTRANCE

DATE 05/24/58 HR 844 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 11.5 STG F WSPD 06 DIR 045 WEA 02 SEA 1 BAR 06 DRY 60.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.27 | 27.677 | 20.52 | 0.689 | 7.72 | 133 | 1.41 | 7 |
| 2 | 12.36 | 28.368 | 21.41 | 0.679 | 7.60 | 126 | 1.73 | 7 |
| 4 | 12.20 | 28.394 | 21.46 | 0.656 | 7.35 | 121 | 1.77 | 8 |
| 7 | 12.02 | 28.437 | 21.53 | 0.631 | 7.07 | 116 | 1.73 | 6 |
| 10 | 11.97 | 28.459 | 21.55 | 0.621 | 6.96 | 114 | 1.88 | 7 |
| 13 | 11.78 | 28.495 | 21.61 | 0.614 | 6.88 | 113 | 2.06 | 8 |

CRUISE PSO 12 STATION 006 JOHNSON POINT, N OF

DATE 05/24/58 HR 920 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 10.8 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 60.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 11.86 | 28.456 | 21.57 | 0.626 | 7.01 | 115 | 1.87 | 8 |
| 5 | 11.73 | 28.492 | 21.62 | 0.612 | 6.85 | 112 | 1.84 | 7 |
| 10 | 11.67 | 28.504 | 21.64 | 0.605 | 6.78 | 111 | 1.95 | 7 |
| 20 | 10.97 | 28.701 | 21.91 | 0.574 | 6.43 | 104 | 1.87 | 8 |
| 30 | 10.92 | 28.759 | 21.97 | 0.565 | 6.33 | 102 | 2.06 | 8 |
| 50 | 10.88 | 28.768 | 21.98 | 0.566 | 6.34 | 102 | 2.09 | 5 |
| 70 | 10.86 | 28.787 | 22.00 | 0.537 | 6.01 | 97 | 2.09 | 8 |

CRUISE PSO 12 STATION 007 HERRON ISLAND

DATE 05/24/58 HR 1021 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 09.2 STG F WSPD * DIR * WEA 01 SEA 1 BAR 06 DRY 61.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.37 | 28.161 | 20.87 | 0.715 | 8.01 | 138 | 1.36 | 8 |
| 5 | 12.17 | 28.398 | 21.47 | 0.682 | 7.64 | 126 | 1.72 | 7 |
| 10 | 11.56 | 28.486 | 21.65 | 0.616 | 6.90 | 112 | 1.77 | 9 |
| 20 | 10.92 | 28.630 | 21.87 | 0.559 | 6.26 | 101 | 1.90 | 7 |
| 30 | 10.76 | 28.632 | 21.89 | 0.540 | 6.05 | 97 | 2.18 | 7 |
| 50 | 10.73 | 28.694 | 21.95 | 0.541 | 6.06 | 97 | 2.16 | - |

CRUISE PSO 12 STATION 008 ROCKY POINT

DATE 05/24/58 HR 1141 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 05.6 STG F WSPD 07 DIR 200 WEA 02 SEA 1 BAR 06 DRY 64.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.82 | 27.480 | 19.83 | 0.633 | 7.09 | 128 | 1.65 | 6 |
| 2 | 14.54 | 28.082 | 20.77 | 0.734 | 8.22 | 142 | 1.57 | 6 |
| 5 | 12.61 | 28.223 | 21.25 | 0.697 | 7.81 | 130 | 1.90 | 7 |
| 10 | 11.02 | 28.374 | 21.65 | 0.542 | 6.07 | 98 | 2.18 | 6 |
| 15 | --- | 28.320 | --- | 0.596 | 6.68 | --- | 2.18 | 8 |

CRUISE PSO 12 STATION 009 ALLYN

DATE 05/24/58 HR 1212 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 04.3 STG F WSPD 08 DIR 200 WEA 00 SEA * BAR 06 DRY 64.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.10 | 27.062 | 19.45 | 0.584 | 6.54 | 118 | 1.56 | 6 |
| 1 | 16.10 | 27.252 | 19.81 | 0.598 | 6.70 | 119 | 1.73 | 6 |
| 2 | 14.86 | 27.909 | 20.58 | 0.643 | 7.20 | 125 | 1.56 | 7 |

CRUISE PSO 12 STATION 010 DOUGALL POINT

DATE 05/24/58 HR 1309 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 02.3 STG F WSPD 10 DIR 200 WEA 02 SEA 1 BAR 06 DRY 67.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.89 | 27.781 | 20.04 | 0.655 | 7.34 | 133 | 1.33 | 7 |
| 5 | 13.91 | 28.050 | 20.87 | 0.677 | 7.58 | 129 | 1.45 | 6 |
| 10 | 12.35 | 28.272 | 21.34 | 0.645 | 7.22 | 120 | 1.69 | 7 |
| 15 | 11.57 | 28.363 | 21.55 | 0.583 | 6.53 | 106 | 1.37 | 6 |
| 25 | 10.99 | 28.475 | 21.73 | 0.534 | 5.98 | 96 | 1.98 | 7 |

CRUISE PSO 12 STATION 011 GRAHAM POINT

DATE 05/24/58 HR 1418 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 00.8 STG F WSPD 09 DIR 225 WEA 02 SEA 1 BAR 06 DRY 70.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.04 | 27.786 | 20.65 | 0.663 | 7.43 | 127 | 1.50 | 7 |
| 5 | 13.95 | 27.806 | 20.68 | 0.543 | 6.08 | 104 | 1.69 | 5 |
| 10 | 13.86 | 27.845 | 20.73 | 0.621 | 6.96 | 119 | 1.69 | 8 |
| 15 | 13.69 | 27.883 | 20.79 | 0.640 | 7.17 | 122 | 1.77 | 9 |

CRUISE PSO 12 STATION 012 ARCADIA

DATE 05/24/58 HR 1459 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 00.3 STG F WSPD 08 DIR 200 WEA 02 SEA 1 BAR 05 DRY 70.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.47 | 27.179 | 19.89 | 0.669 | 7.49 | 130 | 1.45 | 6 |
| 2 | 15.55 | 27.284 | 19.95 | 0.651 | 7.29 | 128 | 1.51 | 5 |
| 5 | 15.35 | 27.778 | 20.37 | 0.679 | 7.60 | 134 | 1.22 | 5 |
| 10 | 13.67 | 27.804 | 20.73 | 0.673 | 7.54 | 128 | 1.40 | 7 |

CRUISE PSO 12 STATION 013 WINDY PT. NE OF

DATE 05/24/58 HR 1526 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 00.2 STG L WSPD 00 DIR WEA 02 SEA 0 BAR 05 DRY 76.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.45 | 27.476 | 19.68 | 0.669 | 7.49 | 137 | 1.13 | 6 |
| 2 | 16.26 | 27.617 | 20.06 | 0.687 | 7.69 | 137 | 1.19 | 9 |
| 5 | 14.78 | 27.720 | 20.45 | 0.727 | 8.14 | 141 | 1.23 | 5 |
| 10 | 14.09 | 27.854 | 20.69 | 0.682 | 7.64 | 131 | 1.35 | 7 |
| 20 | 14.36 | 27.929 | 20.69 | 0.658 | 7.37 | 127 | 1.48 | 5 |
| 30 | 13.50 | 27.994 | 20.91 | 0.646 | 7.24 | 123 | 1.69 | 5 |

CRUISE PSO 12 STATION 014 NEW KAMILCHE

DATE 05/24/58 HR 1618 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 00.7 STG R WSPD 05 DIR 160 WEA 00 SEA 1 BAR 04 DRY 74.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.37 | 27.373 | 19.39 | 0.568 | 6.36 | 118 | 1.55 | 5 |
| 2 | 16.78 | 27.520 | 19.87 | 0.618 | 6.92 | 125 | 1.55 | 7 |
| 4 | 15.00 | 27.662 | 20.36 | 0.676 | 7.57 | 132 | 1.55 | 7 |
| 7 | 14.60 | 27.724 | 20.49 | 0.662 | 7.41 | 128 | 1.48 | 5 |
| 12 | 14.49 | 27.768 | 20.54 | 0.660 | 7.39 | 128 | 1.62 | 4 |

CRUISE PSO 12 STATION 015 BURNS POINT

DATE 05/24/58 HR 1642 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 01.4 STG R WSPD 07 DIR 200 WEA 02 SEA 1 BAR * DRY 74.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.79 | 27.281 | 19.46 | 0.555 | 6.22 | 114 | 1.55 | 6 |
| 1 | 16.40 | 27.476 | 19.92 | 0.575 | 6.44 | 115 | 1.52 | 5 |
| 2 | 16.05 | 27.520 | 20.03 | 0.615 | 6.89 | 123 | 1.42 | 4 |
| 4 | 15.08 | 27.633 | 20.32 | 0.650 | 7.28 | 127 | 1.73 | 5 |

CRUISE PSO 12 STATION 016 SKOOKUM INLET, ENTRANCE

DATE 05/24/58 HR 1710 ZN 08 LAT 47 09.2N LONG 123 01.9W AREA TOT
 TIDE HT 02.5 STG R WSPD 05 DIR 315 WEA 02 SEA 1 BAR 04 DRY 80.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.65 | 26.580 | 18.96 | 0.523 | 5.86 | 107 | 1.78 | 5 |
| 1 | 16.32 | 27.244 | 19.76 | 0.587 | 6.57 | 117 | 1.81 | 5 |
| 2 | 15.09 | 27.414 | 20.15 | 0.624 | 6.99 | 122 | 1.65 | 5 |

CRUISE PSO 12 STATION 017 CHURCH POINT, W OF

DATE 05/24/58 HR 1826 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 02.9 STG R WSPD 12 DIR 315 WEA 00 SEA 1 BAR 04 DRY 74.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.35 | 26.350 | 19.07 | 0.617 | 6.91 | 123 | 1.56 | 4 |
| 2 | 16.47 | 26.354 | 19.05 | 0.616 | 6.90 | 123 | 1.59 | 6 |
| 4 | 16.46 | 26.344 | 19.04 | 0.611 | 6.84 | 122 | 1.52 | 7 |
| 7 | 16.43 | 26.347 | 19.05 | 0.619 | 6.93 | 123 | 1.65 | 7 |
| 11 | 16.42 | 26.334 | 19.04 | 0.614 | 6.88 | 122 | 1.15 | 7 |

CRUISE PSO 12 STATION 018 SHELTON

DATE 05/24/58 HR 1852 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 04.2 STG R WSPD 19 DIR 225 WEA 03 SEA 2 BAR 06 DRY 70.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.03 | 25.720 | 18.44 | 0.589 | 6.60 | 118 | 1.70 | 8 |
| 2 | 16.97 | 25.730 | 18.46 | 0.593 | 6.64 | 119 | 1.69 | 5 |
| 4 | 16.68 | 26.021 | 18.75 | 0.601 | 6.73 | 120 | 1.55 | 5 |
| 7 | 16.29 | 26.233 | 18.99 | 0.604 | 6.76 | 120 | 1.55 | 7 |

CRUISE PSO 12 STATION 019 CHAPMAN COVE, NW OF

DATE 05/24/58 HR 1923 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 06.0 STG R WSPD 07 DIR 225 WEA 00 SEA 1 BAR 06 DRY 69.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.83 | 24.420 | 17.04 | 0.540 | 6.05 | 111 | 1.74 | 6 |
| 1 | 18.73 | 24.690 | 17.27 | 0.524 | 5.87 | 108 | 1.73 | 5 |
| 2 | 18.68 | 24.810 | 17.37 | 0.535 | 5.99 | 110 | 1.77 | 4 |

CRUISE PSO 12 STATION 020 NARROWS, N OF

DATE 05/24/58 HR 1942 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 07.0 STG R WSPD 08 DIR 225 WEA 02 SEA 1 BAR 06 DRY 68.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.22 | 23.440 | 16.21 | 0.536 | 6.00 | 111 | 1.91 | 6 |
| 1 | 18.69 | 24.170 | 16.88 | 0.542 | 6.07 | 111 | 1.91 | 6 |
| 2 | 18.22 | 24.530 | 17.27 | 0.547 | 6.13 | 111 | 1.95 | 7 |
| 4 | 17.17 | 25.140 | 17.97 | 0.535 | 5.99 | 107 | 1.97 | 7 |

CRUISE PSO 12 STATION 021 HUNTER POINT

DATE 05/25/58 HR 700 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 07.8 STG R WSPD 04 DIR 200 WEA 46 SEA 1 BAR 06 DRY 58.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.07 | 27.895 | 20.72 | 0.680 | 7.62 | 131 | 1.26 | 5 |
| 2 | 13.73 | 27.939 | 20.82 | 0.657 | 7.36 | 125 | 1.48 | 8 |
| 5 | 12.68 | 28.265 | 21.27 | 0.637 | 7.13 | 119 | 1.45 | 7 |
| 10 | 12.02 | 28.455 | 21.54 | 0.607 | 6.80 | 112 | 1.84 | 8 |
| 15 | 12.03 | 28.439 | 21.53 | 0.605 | 6.78 | 111 | 1.77 | 6 |

CRUISE PSO 12 STATION 022 COOPER POINT SW OF

DATE 05/25/58 HR 729 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 08.8 STG R WSPD 04 DIR 225 WEA 44 SEA 1 BAR 06 DRY 58.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.27 | 27.940 | 20.51 | 0.696 | 7.80 | 137 | 1.34 | 4 |
| 5 | 12.96 | 28.191 | 21.17 | 0.658 | 7.37 | 123 | 1.54 | 5 |
| 10 | 12.67 | 28.275 | 21.28 | 0.644 | 7.21 | 120 | 1.58 | 8 |
| 15 | 12.60 | 28.286 | 21.31 | 0.642 | 7.19 | 120 | 1.70 | 8 |
| 25 | 12.04 | 28.436 | 21.52 | 0.606 | 6.79 | 112 | 1.73 | 7 |

CRUISE PSO 12 STATION 023 FLAPJACK POINT

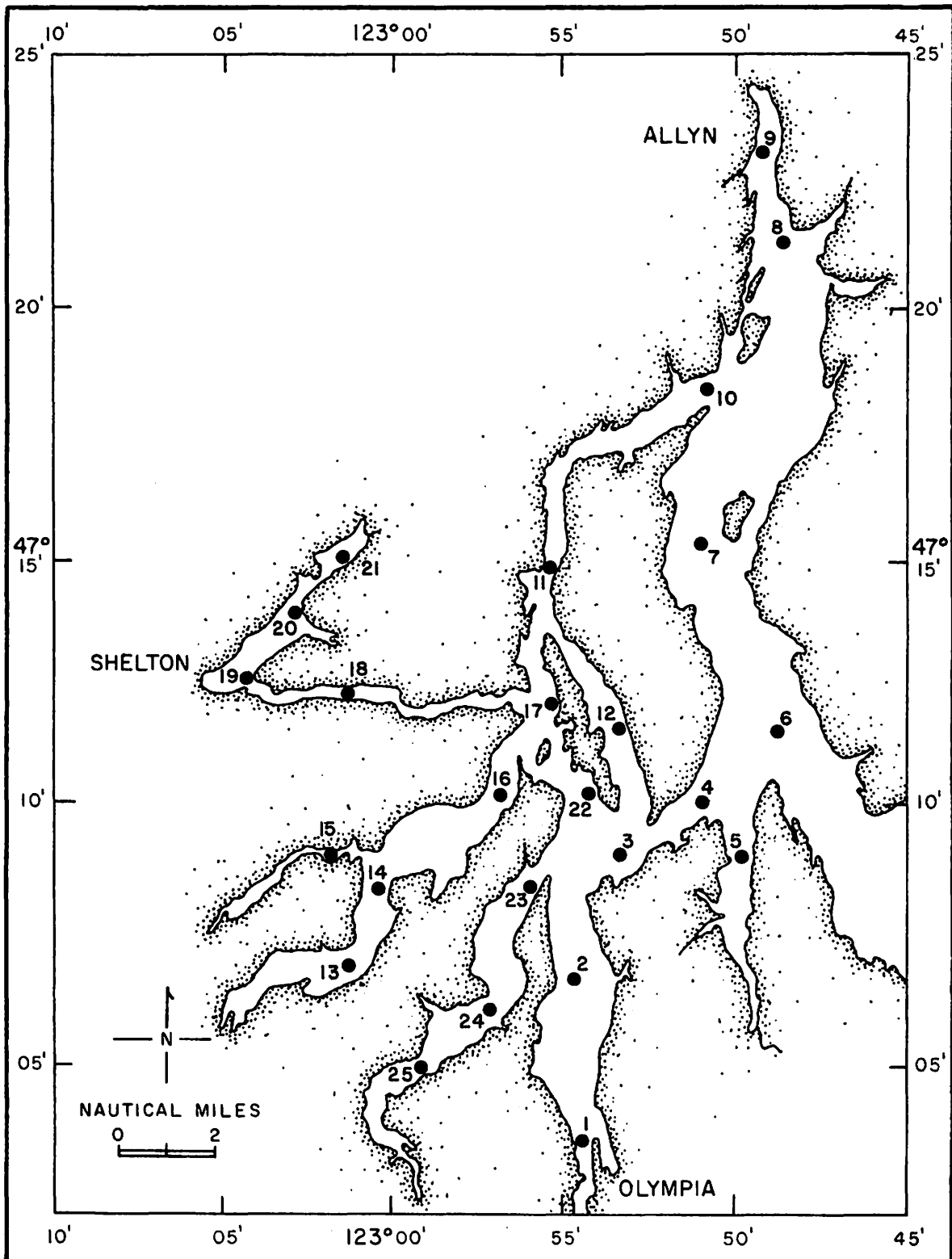
DATE 05/25/58 HR 810 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 10.0 STG R WSPD 00 DIR WEA 44 SEA 0 BAR 06 DRY 62.0
 CL * AMT * SCI 08 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.67 | 27.758 | 20.29 | 0.645 | 7.22 | 128 | 1.66 | 7 |
| 2 | 14.26 | 27.937 | 20.72 | 0.633 | 7.09 | 122 | 1.55 | 5 |
| 4 | 12.93 | 28.181 | 21.16 | 0.672 | 7.53 | 126 | 1.62 | 5 |
| 7 | 12.80 | 28.232 | 21.23 | 0.693 | 7.76 | 130 | 1.68 | 5 |
| 12 | 12.52 | 28.280 | 21.32 | 0.627 | 7.02 | 117 | 1.86 | 5 |

CRUISE PSO 12 STATION 024 ELD INLET, HEAD OF

DATE 05/25/58 HR 835 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 10.6 STG R WSPD 04 DIR 135 WEA 00 SEA 1 BAR 06 DRY 62.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.13 | 27.757 | 20.40 | 0.652 | 7.30 | 128 | 1.66 | 5 |
| 1 | 15.04 | 27.762 | 20.43 | 0.654 | 7.32 | 128 | 1.83 | 6 |
| 2 | 14.60 | 27.940 | 20.65 | 0.691 | 7.74 | 134 | 1.61 | 5 |
| 4 | 14.40 | 27.980 | 20.72 | 0.699 | 7.83 | 135 | 1.47 | 7 |
| 7 | 12.84 | 28.210 | 21.20 | 0.689 | 7.72 | 129 | 1.96 | 6 |
| 10 | 12.63 | 28.590 | 21.53 | 0.661 | 7.40 | 124 | 1.95 | 5 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-13 16-17 JUNE 1958

CRUISE PSO 13 STATION 001 BUDD INLET BUOY NO 12

DATE 06/16/58 HR 523 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 11.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 04 DRY 56.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.34 | 21.058 | 15.43 | 0.484 | 5.42 | 89 | 2.14 | 4 |
| 2 | 14.13 | 28.134 | 20.90 | 0.629 | 7.04 | 121 | 1.75 | 4 |
| 4 | 14.70 | 28.403 | 20.99 | 0.543 | 6.08 | 106 | 1.38 | 5 |
| 7 | 14.75 | 28.441 | 21.01 | 0.425 | 4.76 | 83 | 1.71 | 4 |
| 10 | 13.43 | 28.488 | 21.30 | 0.399 | 4.47 | 76 | 2.10 | 5 |

CRUISE PSO 13 STATION 002 GULL HARBOR

DATE 06/16/58 HR 605 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 09.7 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 04 DRY 61.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.01 | 26.706 | 19.20 | 0.765 | 8.57 | 155 | 1.67 | 4 |
| 2 | 13.93 | 28.392 | 21.13 | 0.659 | 7.38 | 126 | 1.59 | 5 |
| 5 | 13.28 | 28.542 | 21.38 | 0.543 | 6.08 | 103 | 1.30 | 4 |
| 10 | 13.43 | 28.558 | 21.36 | 0.528 | 5.91 | 100 | 1.82 | 4 |
| 15 | 12.95 | 28.650 | 21.52 | 0.522 | 5.85 | 98 | 1.47 | 5 |

CRUISE PSO 13 STATION 003 DOVER POINT

DATE 06/16/58 HR 724 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 05.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 04 DRY 64.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.43 | 28.556 | 21.36 | 0.537 | 6.01 | 102 | 2.06 | 4 |
| 5 | 13.41 | 28.551 | 21.36 | 0.536 | 6.00 | 102 | 1.73 | 4 |
| 10 | 13.31 | 28.565 | 21.39 | 0.533 | 5.97 | 101 | 1.60 | 4 |
| 20 | 13.21 | 28.596 | 21.43 | 0.543 | 6.08 | 103 | 1.49 | 4 |
| 30 | 12.66 | 28.724 | 21.63 | 0.510 | 5.71 | 96 | --- | 5 |
| 50 | 12.45 | 28.804 | 21.73 | 0.504 | 5.64 | 94 | 1.69 | 5 |

CRUISE PSO 13 STATION 004 DICKENSON POINT

DATE 06/16/58 HR 752 ZN 08 LAT 47-10.5N LONG 122-51.1W AREA DNA
 TIDE HT 03.8 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 04 DRY 64.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.16 | 28.637 | 21.47 | 0.528 | 5.91 | 100 | 1.80 | 4 |
| 5 | 13.12 | 28.643 | 21.48 | 0.533 | 5.97 | 101 | 1.71 | 5 |
| 10 | 12.96 | 28.665 | 21.53 | 0.532 | 5.96 | 100 | 1.65 | 6 |
| 20 | 12.91 | 28.688 | 21.56 | 0.530 | 5.94 | 100 | 1.86 | 5 |
| 30 | 12.78 | 28.715 | 21.60 | 0.525 | 5.88 | 98 | 1.62 | 4 |

CRUISE PSO 13 STATION 005 HENDERSON INLET, ENTRANCE

DATE 06/16/58 HR 816 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 02.4 STG F WSPD 04 DIR 360 WEA 02 SEA 1 BAR 05 DRY 76.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.18 | 28.018 | 20.38 | 0.564 | 6.32 | 113 | 1.71 | 5 |
| 2 | 13.76 | 28.486 | 21.24 | 0.523 | 5.86 | 100 | 1.67 | 5 |
| 4 | 13.20 | 28.612 | 21.44 | 0.525 | 5.88 | 99 | --- | 4 |
| 7 | 12.95 | 28.672 | 21.54 | 0.519 | 5.81 | 98 | 1.54 | 4 |
| 10 | 12.84 | 28.684 | 21.54 | ---- | ---- | --- | --- | 4 |

CRUISE PSO 13 STATION 006 JOHNSON POINT, N OF

DATE 06/16/58 HR 849 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 01.0 STG F WSPD 05 DIR 225 WEA 02 SEA 1 BAR 05 DRY 64.0
 CL * AMT * SCI 09 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.94 | 28.526 | 21.23 | 0.647 | 7.25 | 124 | 2.10 | 4 |
| 5 | 13.65 | 28.614 | 21.36 | 0.595 | 6.66 | 114 | 1.87 | 4 |
| 10 | 13.48 | 28.612 | 21.39 | 0.589 | 6.60 | 112 | --- | 4 |
| 20 | 13.24 | 28.610 | 21.44 | 0.605 | 6.78 | 115 | 1.91 | 4 |
| 30 | 13.06 | 28.655 | 21.50 | 0.532 | 5.96 | 100 | --- | 3 |
| 50 | 12.32 | 28.794 | 21.75 | 0.550 | 6.16 | 102 | 1.55 | 4 |
| 70 | 11.78 | 28.928 | 21.75 | ---- | ---- | --- | --- | 4 |

CRUISE PSO 13 STATION 007 HERRON ISLAND

DATE 06/16/58 HR 935 ZN 08 LAT 47-14.5N LONG 122-50.7W AREA CSE
 TIDE HT .3 STG F WSPD 00 DIR WEA 02 SEA 1 BAR 05 DRY 66.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.31 | 28.372 | 20.84 | 0.734 | 8.22 | 145 | 1.12 | 4 |
| 5 | 13.25 | 28.630 | 21.45 | 0.574 | 6.43 | 109 | 1.80 | 3 |
| 10 | 12.52 | 28.717 | 21.65 | 0.523 | 5.86 | 98 | 2.08 | 4 |
| 20 | 12.35 | 28.766 | 21.72 | 0.510 | 5.71 | 95 | 1.75 | 5 |
| 30 | 12.01 | 28.814 | 21.82 | 0.491 | 5.50 | 91 | 1.95 | 4 |
| 50 | 11.80 | 28.879 | 21.91 | 0.485 | 5.43 | 89 | 1.82 | 4 |

CRUISE PSO 13 STATION 008 ROCKY POINT

DATE 06/16/58 HR 1051 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 1.4 STG L WSPD 05 DIR 360 WEA 02 SEA 1 BAR 05 DRY 70.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.76 | 27.417 | 19.57 | 0.598 | 6.70 | 123 | 2.04 | 4 |
| 2 | 16.41 | 27.753 | 20.13 | 0.549 | 6.15 | 110 | 1.91 | 3 |
| 5 | 14.03 | 28.322 | 21.06 | 0.542 | 6.07 | 104 | 2.62 | 3 |
| 10 | 12.14 | 28.540 | 21.58 | ---- | ---- | --- | --- | 4 |
| 15 | 11.78 | ---- | ---- | ---- | ---- | --- | --- | |

CRUISE PSO 13 STATION 009 ALLYN

DATE 06/16/58 HR 1119 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 01.3 STG R WSPD 08 DIR 360 WEA 02 SEA 1 BAR 05 DRY 79.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.63 | 26.934 | 19.00 | 0.556 | 6.23 | 116 | 1.78 | 4 |
| 1 | 18.70 | 26.957 | 19.00 | 0.578 | 6.47 | 121 | 1.05 | 3 |
| 2 | 18.24 | 27.183 | 19.28 | 0.526 | 5.89 | 109 | -.-- | 3 |

CRUISE PSO 13 STATION 010 DOUGALL POINT

DATE 06/16/58 HR 1211 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 00.7 STG R WSPD 07 DIR 020 WEA 02 SEA 1 BAR 05 DRY 80.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.93 | 28.175 | 20.33 | 0.645 | 7.22 | 131 | 1.24 | 4 |
| 5 | 13.76 | 28.432 | 21.20 | 0.507 | 5.68 | 97 | 1.42 | 3 |
| 10 | 13.40 | 28.470 | 21.30 | 0.503 | 5.63 | 95 | 1.42 | 2 |
| 15 | 12.49 | 28.639 | 21.60 | 0.490 | 5.49 | 91 | 1.67 | 4 |
| 25 | 12.18 | 28.715 | 21.71 | 0.464 | 5.20 | 86 | 1.70 | 5 |

CRUISE PSO 13 STATION 011 GRAHAM POINT

DATE 06/16/58 HR 1300 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 01.0 STG R WSPD 06 DIR 360 WEA 02 SEA 1 BAR 05 DRY 80.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.83 | 27.917 | 20.38 | 0.547 | 6.13 | 109 | 1.32 | 4 |
| 5 | 15.15 | 28.013 | 20.60 | 0.549 | 6.15 | 108 | 1.36 | 4 |
| 10 | 15.00 | 28.018 | 20.63 | 0.542 | 6.07 | 106 | 1.59 | 4 |
| 15 | 14.99 | 28.045 | 20.65 | 0.541 | 6.06 | 106 | 1.65 | 4 |

CRUISE PSO 13 STATION 012 PEALE PASSAGE

DATE 06/16/58 HR 1339 ZN 08 LAT 47-11.8N LONG 122-53.5W AREA PLE
 TIDE HT 03.1 STG R WSPD 08 DIR 360 WEA 02 SEA 1 BAR 05 DRY 80.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.30 | 28.376 | 20.63 | 0.556 | 6.23 | 112 | 1.56 | 3 |
| 2 | 14.87 | 28.381 | 20.94 | 0.577 | 6.46 | 113 | 1.95 | 4 |
| 4 | 14.02 | 28.435 | 21.15 | 0.570 | 6.38 | 110 | 1.98 | 4 |
| 8 | 13.65 | 28.513 | 21.28 | 0.540 | 6.05 | 103 | 1.75 | 5 |

CRUISE PSO 13 STATION 013 BURNS POINT

DATE 06/16/58 HR 1510 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 08.4 STG R WSPD 07 DIR 360 WEA 02 SEA 1 BAR 04 DRY 82.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.36 | 27.892 | 19.55 | 0.709 | 7.94 | 151 | 1.61 | 3 |
| 1 | 17.47 | 27.970 | 20.05 | 0.708 | 7.93 | 145 | --- | 4 |
| 2 | 17.02 | 27.959 | 20.15 | 0.686 | 7.68 | 140 | 1.75 | 4 |
| 4 | 15.75 | 28.112 | 20.54 | 0.615 | 6.89 | 122 | 1.78 | 4 |

CRUISE PSO 13 STATION 014 NEW KAMILCHE

DATE 06/16/58 HR 1536 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 10.2 STG R WSPD 00 DIR WEA 02 SEA 1 BAR 04 DRY 84.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.20 | 27.973 | 19.89 | 0.655 | 7.34 | 136 | 1.32 | 5 |
| 2 | 17.28 | 28.008 | 20.13 | 0.657 | 7.36 | 134 | 1.63 | 4 |
| 4 | 17.02 | 27.998 | 20.18 | 0.654 | 7.32 | 133 | 1.35 | 4 |
| 7 | 15.35 | 28.157 | 20.66 | 0.629 | 7.04 | 124 | 1.51 | 5 |
| 12 | 15.21 | 28.159 | 20.70 | 0.578 | 6.47 | 114 | --- | 3 |

CRUISE PSO 13 STATION 015 SKOOKUM INLET, ENTRANCE

DATE 06/16/58 HR 1555 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 11.1 STG R WSPD 05 DIR 270 WEA 02 SEA 1 BAR 03 DRY 85.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.06 | 27.850 | 20.06 | 0.620 | 6.94 | 126 | 1.55 | 4 |
| 1 | 16.78 | 27.845 | 20.12 | 0.628 | 7.03 | 127 | 1.74 | 4 |
| 2 | 16.62 | 27.870 | 20.17 | 0.627 | 7.02 | 127 | 1.64 | 4 |

CRUISE PSO 13 STATION 016 WINDY PT, NE OF

DATE 06/16/58 HR 1641 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 13.1 STG R WSPD 00 DIR WEA 02 SEA 1 BAR 03 DRY 88.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.32 | 28.237 | 20.73 | 0.608 | 6.81 | 120 | 1.38 | 4 |
| 2 | 15.20 | 28.237 | 20.76 | 0.618 | 6.92 | 122 | 1.47 | 4 |
| 5 | 15.05 | 28.237 | 20.79 | 0.609 | 6.82 | 119 | 1.69 | 5 |
| 10 | 15.11 | 28.233 | 20.77 | 0.608 | 6.81 | 119 | 1.66 | 4 |
| 20 | 14.80 | 28.282 | 20.87 | 0.595 | 6.66 | 116 | 1.62 | 4 |
| 30 | 14.71 | 28.276 | 20.89 | 0.582 | 6.52 | 113 | 1.67 | 4 |

CRUISE PSO 13 STATION 017 ARCADIA

DATE 06/16/58 HR 1710 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 13.7 STG R WSPD 09 DIR 360 WEA 02 SEA 1 BAR 03 DRY 88.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.56 | 28.017 | 20.51 | 0.556 | 6.23 | 109 | 2.18 | 4 |
| 2 | 15.30 | 28.063 | 20.60 | 0.552 | 6.18 | 108 | 1.93 | 4 |
| 5 | 15.09 | 28.091 | 20.67 | 0.545 | 6.10 | 106 | 1.58 | 4 |
| 10 | 15.10 | 28.100 | 20.67 | 0.543 | 6.08 | 106 | 1.57 | 4 |

CRUISE PSO 13 STATION 018 CHURCH POINT, W OF

DATE 06/16/58 HR 1745 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 13.2 STG R WSPD 07 DIR 090 WEA 02 SEA 1 BAR 03 DRY 84.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.40 | 28.033 | 20.56 | 0.543 | 6.08 | 107 | 2.02 | 4 |
| 2 | 15.38 | 28.027 | 20.56 | 0.537 | 6.01 | 106 | 1.94 | 4 |
| 4 | 15.32 | 28.031 | 20.57 | 0.533 | 5.97 | 105 | 1.97 | 4 |
| 7 | 15.36 | 28.053 | 20.58 | 0.530 | 5.94 | 105 | 2.09 | 4 |
| 10 | 15.38 | 28.027 | 20.56 | 0.543 | 6.08 | 107 | 1.80 | 5 |

CRUISE PSO 13 STATION 019 SHELTON

DATE 06/16/58 HR 1814 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 13.8 STG R WSPD 05 DIR 090 WEA 02 SEA 1 BAR 03 DRY 84.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.94 | 27.022 | 19.45 | 0.511 | 5.72 | 103 | 1.98 | 4 |
| 2 | 16.93 | 27.026 | 19.46 | 0.507 | 5.68 | 102 | 2.01 | 4 |
| 4 | 16.84 | 27.038 | 19.49 | 0.509 | 5.70 | 103 | 2.07 | 4 |
| 7 | 16.81 | 27.069 | 19.52 | 0.517 | 5.79 | 104 | 1.85 | 4 |

CRUISE PSO 13 STATION 020 CHAPMAN COVE, NW OF

DATE 06/16/58 HR 1900 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 14.0 STG H WSPD 03 DIR 090 WEA 02 SEA 1 BAR 03 DRY 94.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.94 | 25.984 | 18.44 | 0.498 | 5.58 | 102 | 2.06 | 5 |
| 1 | 17.63 | 26.293 | 18.74 | 0.473 | 5.30 | 96 | 2.26 | 5 |
| 2 | 17.30 | 26.491 | 18.97 | 0.485 | 5.43 | 98 | 2.16 | 5 |
| 4 | 17.22 | 26.605 | 19.07 | 0.472 | 5.29 | 96 | 2.33 | 5 |

CRUISE PSO 13 STATION 021 OAKLAND BAY.

DATE 06/16/58 HR 1922 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 13.9 STG F WSPD 01 DIR 090 WEA 02 SEA 1 BAR 03 DRY 89.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|---------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.34 | 25.183 | 17.50 | 0.517 | 5.79 | 108 | 2.64 | 4 |
| 1 | 19.20 | 25.219 | 17.56 | 0.531 | 5.95 | 111 | 2.18 | 4 |
| 2 | 19.03 | 25.327 | 17.68 | 0.503 | 5.63 | 105 | 2.38 | 4 |
| 4 | 18.92 | 25.399 | 17.76 | 0.511 | 5.72 | 106 | 2.22 | 4 |
| 7 | 18.53 | 25.679 | 17.76 | -.--- | ---.--- | --- | 2.01 | 4 |

CRUISE PSO 13 STATION 022 HUNTER POINT

DATE 06/17/58 HR 619 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 09.8 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 03 DRY 70.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.15 | 28.446 | 21.13 | 0.575 | 6.44 | 111 | 1.39 | 3 |
| 2 | 13.46 | 28.517 | 21.32 | 0.570 | 6.38 | 108 | 1.65 | 4 |
| 5 | 13.47 | 28.571 | 21.36 | 0.564 | 6.32 | 107 | 1.73 | 4 |
| 10 | 13.41 | 28.616 | 21.41 | 0.556 | 6.23 | 106 | -.--- | 3 |
| 15 | 13.30 | 28.634 | 21.44 | 0.553 | 6.19 | 105 | 1.63 | 4 |

CRUISE PSO 13 STATION 023 COOPER POINT, SW OF

DATE 06/17/58 HR 646 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 08.5 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 03 DRY 76.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.55 | 28.325 | 20.75 | 0.698 | 7.82 | 138 | 1.30 | 3 |
| 5 | 13.66 | 28.544 | 21.30 | 0.570 | 6.38 | 109 | 1.59 | 4 |
| 10 | 13.60 | 28.556 | 21.32 | 0.566 | 6.34 | 108 | 1.63 | 4 |
| 15 | 13.61 | 28.578 | 21.34 | 0.562 | 6.29 | 107 | -.--- | 4 |
| 25 | 13.23 | 28.650 | 21.47 | 0.549 | 6.15 | 104 | 1.90 | 3 |

CRUISE PSO 13 STATION 024 FLAPJACK POINT

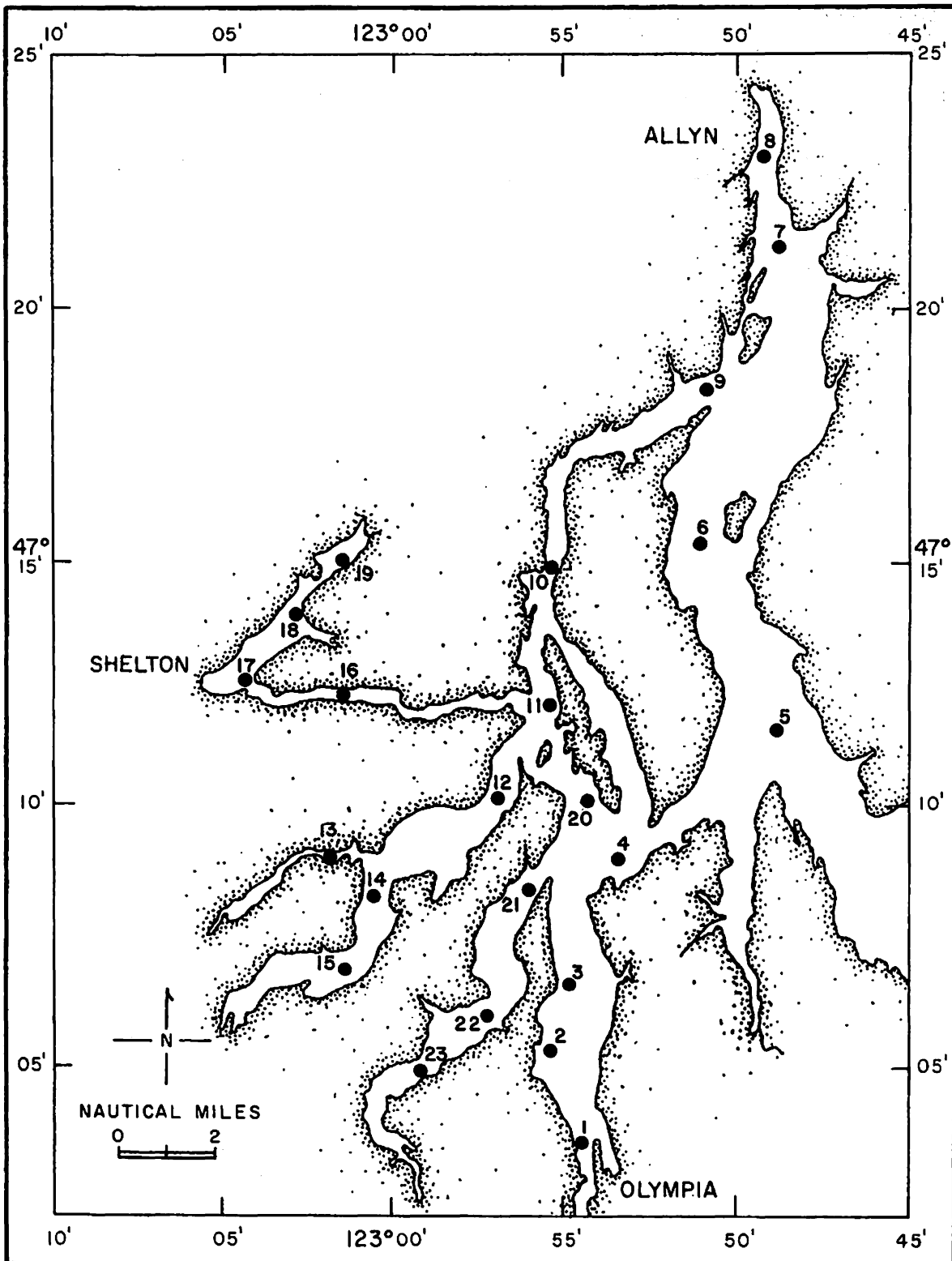
DATE 06/17/58 HR 723 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 06.8 STG F WSPD 02 DIR 360 WEA 02 SEA 1 BAR 03 DRY 79.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.07 | 27.917 | 19.87 | 0.621 | 6.96 | 129 | 1.85 | 4 |
| 2 | 16.33 | 28.226 | 20.51 | 0.753 | 8.43 | 152 | 1.94 | 3 |
| 4 | 14.46 | 28.419 | 21.05 | 0.649 | 7.27 | 126 | 1.59 | 4 |
| 7 | 13.74 | 28.488 | 21.24 | 0.563 | 6.31 | 108 | 1.79 | 5 |
| 12 | 13.67 | 28.517 | 21.28 | 0.553 | 6.19 | 106 | 1.81 | 4 |

CRUISE PSO 13 STATION 025 ELD INLET, HEAD OF

DATE 06/17/58 HR 754 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 05.2 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 03 DRY 76.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.11 | 27.724 | 19.72 | 0.595 | 6.66 | 123 | 1.78 | 4 |
| 1 | 16.96 | 28.024 | 20.21 | 0.618 | 6.92 | 126 | 1.84 | 4 |
| 2 | 14.60 | 28.354 | 20.97 | 0.592 | 6.63 | 115 | 1.98 | 4 |
| 4 | 14.39 | 28.396 | 21.05 | 0.543 | 6.08 | 105 | 2.03 | 4 |
| 7 | 14.38 | 28.397 | 21.05 | 0.524 | 5.87 | 102 | 1.89 | 4 |
| 10 | 14.33 | 28.396 | 21.06 | 0.526 | 5.89 | 102 | 1.97 | 4 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-14 8-9 JULY 1958

CRUISE PSO 14 STATION 001 BUDD INLET BUOY NO 12

DATE 07/08/58 HR 621 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 03.9 STG R WSPD 06 DIR 180 WEA 02 SEA 1 BAR 04 DRY 60.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.65 | 22.340 | 15.51 | -- | 2 |
| 2 | 15.91 | 28.504 | 20.81 | -- | 3 |
| 4 | 14.67 | 28.646 | 21.18 | -- | 3 |
| 7 | 14.50 | 28.684 | 21.24 | -- | 2 |

CRUISE PSO 14 STATION 002 GULL HARBOR

DATE 07/08/58 HR 713 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 05.1 STG R WSPD 05 DIR 180 WEA 02 SEA 1 BAR 04 DRY 61.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.85 | 26.807 | 18.85 | 1.48 | 2 |
| 2 | 17.56 | 27.850 | 19.94 | 1.15 | 3 |
| 5 | 14.39 | 28.849 | 21.39 | 1.94 | 3 |
| 10 | 14.19 | 28.831 | 21.42 | 2.00 | 4 |
| 15 | 14.15 | 28.829 | 21.43 | 2.19 | 3 |

CRUISE PSO 14 STATION 003 DOVER POINT

DATE 07/08/58 HR 752 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 06.5 STG R WSPD 08 DIR 090 WEA 02 SEA 1 BAR 04 DRY 61.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 15.50 | 28.829 | 21.15 | 1.83 | 3 |
| 5 | 14.95 | 28.822 | 21.26 | 1.81 | 3 |
| 10 | 14.98 | 28.818 | 21.25 | 1.81 | 3 |
| 20 | 14.89 | 28.829 | 21.28 | 1.65 | 3 |
| 30 | 14.81 | 28.829 | 21.29 | 1.93 | 3 |
| 50 | 13.20 | 29.033 | 21.77 | 2.07 | 3 |

CRUISE PSO 14 STATION 004 HENDERSON INLET, ENTRANCE

DATE 07/08/58 HR 840 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 08.3 STG R WSPD 06 DIR 135 WEA 02 SEA 1 BAR 04 DRY 62.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 17.09 | 28.302 | 20.39 | 1.64 | 3 |
| 2 | 16.12 | 28.683 | 20.90 | 1.49 | 3 |
| 4 | 15.35 | 28.784 | 21.14 | 1.60 | 3 |
| 7 | 14.24 | 28.921 | 21.48 | 1.96 | 3 |
| 10 | 14.23 | 28.928 | 21.49 | 2.10 | 4 |

CRUISE PSO 14 STATION 005 JONHSON POINT, N OF

DATE 07/08/58 HR 917 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 09.7 STG R WSPD 09 DIR 225 WEA 02 SEA 1 BAR 04 DRY 61.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 14.37 | 28.932 | 21.46 | 1.81 | 3 |
| 5 | 13.89 | 28.955 | 21.57 | 1.91 | 4 |
| 10 | 13.70 | 28.993 | 21.64 | 1.95 | 3 |
| 20 | 12.85 | 29.109 | 21.89 | 2.03 | 4 |
| 30 | 12.80 | 29.123 | 21.91 | 2.08 | 4 |
| 50 | 12.70 | 29.137 | 21.94 | 2.08 | 4 |
| 70 | 12.74 | 29.132 | 21.93 | 2.13 | 4 |

CRUISE PSO 14 STATION 006 HERRON ISLAND

DATE 07/08/58 HR 1011 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 1.4 STG R WSPD 05 DIR 225 WEA 02 SEA 1 BAR 04 DRY 61.0
 CL * AMT * SCI * SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 15.42 | 28.827 | 21.16 | 1.36 | 3 |
| 5 | 14.88 | 28.847 | 21.29 | 1.59 | 4 |
| 10 | 14.67 | 28.859 | 21.34 | 1.59 | 4 |
| 20 | 13.40 | 28.962 | 21.68 | 2.17 | 4 |
| 30 | 12.98 | 29.009 | 21.79 | 2.28 | 4 |

CRUISE PSO 14 STATION 007 ROCKY POINT

DATE 07/08/58 HR 1115 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 1.4 STG F WSPD 05 DIR 360 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 19.96 | 28.336 | 19.73 | 1.17 | 4 |
| 2 | 19.96 | 28.341 | 19.74 | 1.21 | 3 |
| 5 | 17.30 | 28.646 | 20.61 | 1.27 | 4 |
| 10 | 17.69 | 28.605 | 20.49 | 1.42 | 4 |
| 15 | 16.16 | 28.722 | 20.92 | 2.00 | 6 |

CRUISE PSO 14 STATION 008 ALLYN

DATE 07/08/58 HR 1142 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 1.1 STG F WSPD 00 DIR 315 WEA 02 SEA 0 BAR 04 DRY 62.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 20.91 | 27.565 | 18.90 | 1.72 | 3 |
| 1 | 20.90 | 27.565 | 18.91 | 1.81 | 3 |
| 2 | 20.41 | 27.825 | 19.23 | 1.69 | 2 |
| 4 | 17.68 | 28.515 | 20.42 | 1.64 | 3 |

CRUISE PSO 14 STATION 009 DOUGALL POINT

DATE 07/08/58 HR 1242 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 08.8 STG F WSPD 10 DIR 270 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.08 | 28.580 | 20.38 | 1.26 | 4 |
| 5 | 15.28 | 28.764 | 21.14 | 1.66 | 5 |
| 10 | 14.52 | 28.805 | 21.33 | 1.94 | 4 |
| 15 | 14.19 | 28.961 | 21.52 | 2.14 | 3 |
| 25 | 12.88 | 28.822 | 21.67 | 2.41 | 3 |

CRUISE PSO 14 STATION 010 GRAHAM POINT

DATE 07/08/58 HR 1342 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 06.8 STG F WSPD 04 DIR 135 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|---------|---------|---------|-----|
| 0 | 16.87 | 28.495 | 20.59 | 1.45 | 3 |
| 5 | 15.91 | 28.598 | 20.88 | 1.78 | 2 |
| 10 | 15.07 | 28.711 | 21.15 | 2.04 | 3 |
| 15 | 14.19 | ---.--- | ---.--- | ---.--- | |

CRUISE PSO 14 STATION 011 ARCADIA

DATE 07/08/58 HR 1415 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 05.8 STG F WSPD 04 DIR 135 WEA 02 SEA 1 BAR 04 DRY 64.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 16.78 | 28.462 | 20.59 | 1.68 | 4 |
| 2 | 16.78 | 28.470 | 20.59 | 1.72 | 3 |
| 5 | 16.77 | 28.471 | 20.60 | 1.63 | 3 |
| 10 | 16.71 | 28.470 | 20.61 | 1.79 | 3 |

CRUISE PSO 14 STATION 012 WINDY PT, NE OF

DATE 07/08/58 HR 1445 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 05.2 STG F WSPD 07 DIR 180 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 17.12 | 28.574 | 20.60 | 1.71 | 3 |
| 2 | 17.03 | 28.572 | 20.61 | 1.84 | 3 |
| 5 | 16.72 | 28.607 | 20.71 | 1.82 | 4 |
| 10 | 16.44 | 28.636 | 20.80 | 1.73 | 2 |
| 20 | 16.31 | 28.643 | 20.83 | 1.76 | 3 |
| 30 | 16.20 | 28.655 | 20.86 | 1.83 | 3 |

CRUISE PSO 14 STATION 013 SKOOKUM INLET, ENTRANCE

DATE 07/08/58 HR 1531 ZN 08 LAT 47-09.3N LONG 123-01.4W AREA TOT
 TIDE HT 04.4 STG F WSPD 02 DIR 090 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.20 | 28.192 | 20.05 | 2.29 | 3 |
| 1 | 18.17 | 28.201 | 20.07 | 2.27 | 3 |
| 2 | 18.16 | 28.201 | 20.07 | 2.30 | 3 |

CRUISE PSO 14 STATION 014 NEW KAMILCHE

DATE 07/08/58 HR 1551 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 04.3 STG F WSPD 05 DIR 360 WEA 02 SEA 1 BAR 04 DRY 62.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.05 | 28.444 | 20.28 | 2.51 | 2 |
| 2 | 17.97 | 28.448 | 20.30 | 2.08 | 3 |
| 4 | 17.32 | 28.475 | 20.47 | 1.92 | 3 |
| 7 | 17.17 | 28.515 | 20.54 | 1.94 | 3 |
| 12 | 17.02 | 28.542 | 20.59 | 1.88 | 2 |

CRUISE PSO 14 STATION 015 BURNS POINT

DATE 07/08/58 HR 1617 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 04.2 STG L WSPD 09 DIR 360 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.34 | 28.401 | 20.18 | 2.28 | 3 |
| 1 | 18.29 | 28.415 | 20.20 | 2.46 | 2 |
| 2 | 18.18 | 28.417 | 20.23 | 2.45 | 2 |
| 4 | 18.13 | 28.421 | 20.24 | 2.33 | 2 |

CRUISE PSO 14 STATION 016 CHURCH POINT, W OF

DATE 07/08/58 HR 1848 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 04.7 STG R WSPD 06 DIR 315 WEA 02 SEA 1 BAR 03 DRY 63.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.56 | 27.511 | 19.45 | 2.03 | 4 |
| 2 | 18.74 | 27.515 | 19.41 | 1.97 | 4 |
| 4 | 18.67 | 27.560 | 19.46 | 1.96 | 4 |
| 7 | 18.57 | 27.612 | 19.52 | 1.99 | 3 |
| 10 | 18.55 | 27.618 | 19.53 | 2.02 | 4 |

CRUISE PSO 14 STATION 017 SHELTON

DATE 07/08/58 HR 1958 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 07.1 STG R WSPD 07 DIR 045 WEA 02 SEA 1 BAR 03 DRY 62.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 19.16 | 26.717 | 18.70 | 2.19 | 5 |
| 2 | 19.00 | 27.017 | 18.97 | 2.13 | 4 |
| 4 | 18.94 | 27.179 | 19.11 | 2.19 | 4 |
| 7 | 18.66 | 27.502 | 19.42 | 2.08 | 4 |

CRUISE PSO 14 STATION 018 CHAPMAN COVE, NW OF

DATE 07/08/58 HR 2013 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 07.9 STG R WSPD 07 DIR 315 WEA 02 SEA 1 BAR 03 DRY 63.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 19.98 | 26.179 | 18.09 | 2.93 | 3 |
| 1 | 19.96 | 26.199 | 18.11 | 3.01 | 4 |
| 2 | 20.20 | 26.692 | 18.43 | 2.89 | 4 |

CRUISE PSO 14 STATION 019 NARROWS, N OF

DATE 07/08/58 HR 2033 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 08.8 STG R WSPD 05 DIR 045 WEA 02 SEA 1 BAR 03 DRY 62.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 19.92 | 24.316 | 16.70 | 3.51 | 4 |
| 1 | 20.16 | 25.504 | 17.54 | 3.27 | 4 |
| 2 | 20.13 | 25.650 | 17.66 | 3.17 | 4 |
| 4 | 20.07 | 25.796 | 17.78 | 3.13 | 4 |
| 7 | 19.99 | 26.242 | 18.14 | 3.00 | 3 |

CRUISE PSO 14 STATION 020 HUNTER POINT

DATE 07/09/58 HR 641 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 02.9 STG L WSPD 03 DIR 135 WEA 02 SEA 1 BAR 04 DRY 61.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 15.90 | 28.728 | 20.98 | 1.61 | 4 |
| 2 | 15.90 | 28.726 | 20.98 | 1.48 | 4 |
| 5 | 15.75 | 28.717 | 21.01 | 1.64 | 3 |

CRUISE PSO 14 STATION 021 COOPER POINT, SW OF

DATE 07/09/58 HR 712 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 03.1 STG R WSPD 04 DIR 135 WEA 02 SEA 1 BAR 04 DRY 63.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 16.85 | 28.619 | 20.69 | 1.51 | 3 |
| 5 | 15.83 | 28.744 | 21.01 | 1.68 | 4 |
| 10 | 15.11 | 28.814 | 21.22 | 1.77 | 4 |
| 15 | 14.66 | 28.859 | 21.35 | 1.91 | 4 |
| 25 | 14.08 | 28.926 | 21.51 | 2.07 | 5 |

CRUISE PSO 14 STATION 022 FLAPJACK POINT

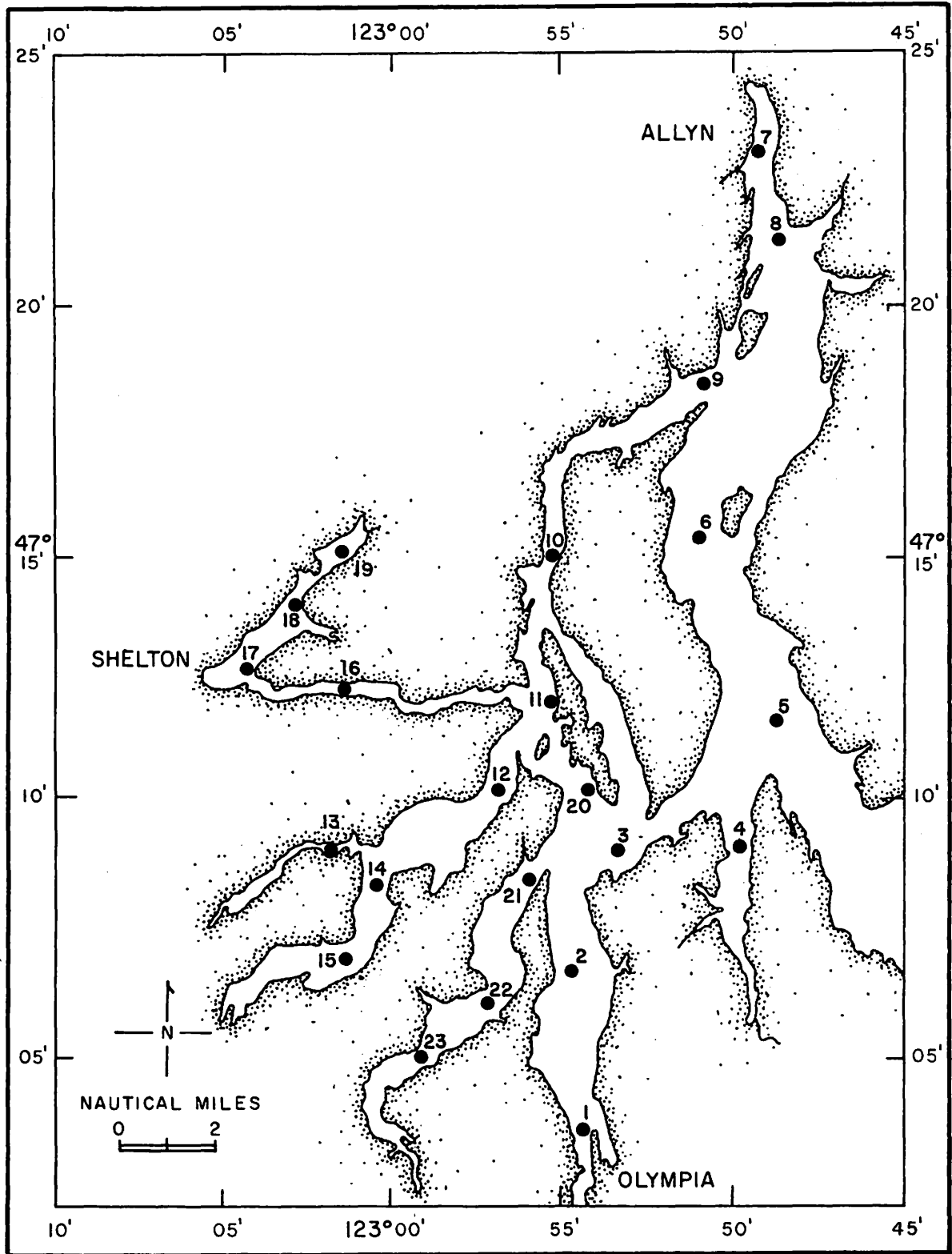
DATE 07/09/58 HR 749 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 03.7 STG R WSPD 00 DIR WEA 00 SEA 0 BAR 04 DRY 63.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 16.68 | 28.560 | 20.68 | 1.78 | 3 |
| 2 | 16.14 | 28.668 | 20.89 | 1.48 | 3 |
| 4 | 15.93 | 28.701 | 20.96 | 1.92 | 2 |
| 7 | 14.87 | 28.791 | 21.25 | 1.86 | 3 |
| 12 | 14.78 | 28.804 | 21.28 | 2.05 | 2 |

CRUISE PSO 14 STATION 023 ELD INLET, HEAD OF

DATE 07/09/58 HR 815 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 04.3 STG R WSPD 00 DIR WEA 01 SEA 0 BAR 04 DRY 68.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 16.49 | 28.506 | 20.68 | 2.36 | 3 |
| 1 | 16.14 | 28.518 | 20.77 | 2.75 | 3 |
| 2 | 15.94 | 28.596 | 20.87 | 2.32 | 3 |
| 4 | 15.70 | 28.637 | 20.96 | 2.18 | 3 |
| 7 | 15.54 | 28.677 | 21.02 | 2.50 | 3 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-15 31 JULY - 1 AUG. 1958

CRUISE PSO 15 STATION 001 BUDD INLET BUOY NO 12

DATE 07/31/58 HR 631 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 11.3 STG F WSPD 04 DIR 360 WEA 02 SEA 1 BAR 99 DRY 60.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.00 | 25.982 | 18.42 | -- | 4 |
| 2 | 16.96 | 28.695 | 20.72 | -- | 4 |
| 4 | 15.97 | 28.959 | 21.15 | 2.81 | 4 |
| 7 | 15.76 | 28.995 | 21.22 | 2.94 | 4 |
| 10 | 15.47 | 28.997 | 21.28 | 2.23 | 3 |

CRUISE PSO 15 STATION 002 GULL HARBOR

DATE 07/31/58 HR 713 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 09.5 STG F WSPD 05 DIR 225 WEA 02 SEA 1 BAR 99 DRY 62.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | PHOS. | SSL |
|-------|-------|--------|---------|-------|-----|
| 0 | 18.34 | 28.491 | 20.25 | 3.00 | 4 |
| 2 | 15.82 | 29.022 | 21.23 | 2.55 | 5 |
| 5 | 15.56 | 29.065 | 21.31 | 2.33 | 4 |
| 10 | 14.99 | 29.136 | 21.49 | 2.10 | 4 |
| 15 | 14.88 | 29.141 | 21.52 | 2.12 | 4 |

CRUISE PSO 15 STATION 003 DOVER POINT

DATE 07/31/58 HR 745 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 07.8 STG F WSPD 00 DIR WEA 02 SEA * BAR 99 DRY 64.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.12 | 28.975 | 21.12 | 0.568 | 6.36 | 114 | 2.14 | 4 |
| 5 | 15.26 | 29.116 | 21.42 | 0.503 | 5.63 | 100 | 1.98 | 4 |
| 10 | 14.98 | 29.141 | 21.50 | --- | --- | --- | 2.01 | 4 |
| 20 | 14.95 | 29.148 | 21.51 | 0.478 | 5.35 | 94 | 2.02 | 3 |
| 30 | 14.80 | 29.154 | 21.54 | --- | --- | --- | 2.00 | 4 |
| 50 | 14.58 | 29.175 | 21.60 | 0.489 | 5.48 | 96 | 2.02 | 4 |

CRUISE PSO 15 STATION 004 HENDERSON INLET, MIDDLE

DATE 07/31/58 HR 826 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 05.2 STG F WSPD 02 DIR 270 WEA 02 SEA 1 BAR 04 DRY 65.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.91 | 28.939 | 21.14 | 0.439 | 4.92 | 88 | 1.52 | 4 |
| 2 | 15.74 | 29.035 | 21.25 | 0.582 | 6.52 | 116 | 1.73 | 4 |
| 4 | 15.55 | 29.063 | 21.32 | 0.538 | 6.03 | 107 | 1.83 | 4 |
| 7 | 15.04 | 29.143 | 21.48 | 0.520 | 5.82 | 103 | 1.97 | 4 |
| 10 | 14.78 | 29.155 | 21.55 | 0.506 | 5.67 | 99 | 2.10 | 4 |
| 13 | 14.77 | 29.165 | 21.56 | 0.467 | 5.23 | 92 | 2.20 | 4 |

CRUISE PSO 15 STATION 005 JOHNSON POINT, N OF

DATE 07/31/58 HR 958 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 0.0 STG F WSPD * DIR * WEA 02 SEA 0 BAR 04 DRY 67.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.97 | 29.074 | 21.23 | 0.735 | 8.23 | 148 | 1.09 | 4 |
| 5 | 15.60 | 29.109 | 21.34 | 0.672 | 7.53 | 134 | 1.30 | 4 |
| 10 | 15.29 | 29.128 | 21.42 | 0.568 | 6.36 | 113 | 1.46 | 3 |
| 20 | 14.41 | 29.208 | 21.66 | 0.500 | 5.60 | 97 | 2.03 | 4 |
| 30 | 14.27 | 29.217 | 21.70 | 0.499 | 5.59 | 97 | 2.06 | 4 |
| 50 | 14.04 | 29.248 | 21.77 | 0.486 | 5.44 | 94 | 2.10 | 3 |
| 70 | 13.69 | --- | 21.74 | 0.466 | 5.45 | 96 | 2.16 | 4 |

CRUISE PSO 15 STATION 006 HERRON ISLAND

DATE 07/31/58 HR 1017 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 0.4 STG F WSPD 03 DIR 225 WEA 02 SEA 1 BAR 04 DRY 68.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.17 | 28.912 | 20.61 | 0.584 | 6.54 | 122 | 0.95 | 3 |
| 5 | 15.83 | 29.018 | 21.22 | 0.584 | 6.54 | 117 | 1.32 | 4 |
| 10 | 14.69 | 29.094 | 21.52 | 0.333 | 3.73 | 65 | 2.15 | 4 |
| 20 | 14.37 | 29.183 | 21.65 | 0.346 | 3.88 | 67 | 2.02 | 4 |
| 30 | 13.73 | 29.237 | 21.82 | 0.347 | 3.89 | 67 | 2.32 | 4 |
| 50 | 13.66 | 29.262 | 21.86 | 0.381 | 4.27 | 73 | 2.41 | 4 |

CRUISE PSO 15 STATION 007 ALLYN

DATE 07/31/58 HR 1128 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT .7 STG F WSPD 07 DIR 135 WEA 02 SEA 1 BAR 05 DRY 70.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 21.15 | 26.239 | 17.84 | 0.285 | 3.19 | 62 | 1.96 | 4 |
| 1 | --- | 27.762 | --- | 0.264 | 2.96 | --- | 2.17 | 2 |
| 2 | 18.50 | 28.329 | 20.09 | 0.456 | 5.11 | 96 | 2.20 | 3 |

CRUISE PSO 15 STATION 008 ROCKY POINT

DATE 07/31/58 HR 1154 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT .8 STG L WSPD 05 DIR 180 WEA 02 SEA 1 BAR 09 DRY 72.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 21.00 | 28.444 | 19.55 | 0.703 | 7.87 | 155 | 2.25 | 4 |
| 2 | 20.39 | 28.491 | 19.74 | 0.671 | 7.52 | 146 | --- | 3 |
| 5 | 16.86 | 28.915 | 20.91 | 0.512 | 5.73 | 104 | 2.14 | 3 |
| 10 | 15.17 | 28.915 | 21.28 | 0.431 | 4.83 | 85 | 2.35 | 4 |

CRUISE PSO 15 STATION 009 DOUGALL POINT

DATE 07/31/58 HR 1233 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 00.6 STG R WSPD 03 DIR 135 WEA 02 SEA 1 BAR 09 DRY 79.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 17.00 | 28.935 | 20.90 | 0.593 | 6.64 | 122 | 1.78 | 3 |
| 5 | 15.92 | 28.964 | 21.16 | 0.557 | 6.24 | 112 | 1.90 | 4 |
| 10 | 15.66 | 29.009 | 21.25 | 0.537 | 6.01 | 107 | 2.01 | 3 |
| 15 | 15.53 | 29.007 | 21.28 | 0.534 | 5.98 | 106 | 2.11 | 3 |
| 25 | 14.40 | 29.109 | 21.59 | 0.451 | 5.05 | 88 | 2.45 | 3 |

CRUISE PSO 15 STATION 010 GRAHAM POINT

DATE 07/31/58 HR 1329 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 01.0 STG R WSPD 08 DIR 180 WEA 02 SEA 1 BAR 09 DRY 75.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 17.74 | 28.731 | 20.57 | 0.541 | 6.06 | 112 | 1.84 | 3 |
| 5 | 17.38 | 28.767 | 20.68 | 0.567 | 6.35 | 117 | 1.92 | 4 |
| 10 | 17.29 | 28.798 | 20.73 | 0.556 | 6.23 | 114 | 2.01 | 4 |

CRUISE PSO 15 STATION 011 ARCADIA

DATE 07/31/58 HR 1401 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 02.5 STG R WSPD 11 DIR 090 WEA 02 SEA 1 BAR 06 DRY 74.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 18.47 | 28.491 | 20.22 | 0.585 | 6.55 | 123 | 1.90 | 3 |
| 2 | 18.27 | 28.551 | 20.31 | 0.616 | 6.90 | 129 | 1.92 | 4 |
| 5 | 18.15 | 28.598 | 20.37 | 0.612 | 6.85 | 128 | 1.96 | 4 |
| 10 | 17.99 | 28.666 | 20.46 | 0.604 | 6.76 | 126 | 1.90 | 3 |

CRUISE PSO 15 STATION 012 WINDY PT. NE OF

DATE 07/31/58 HR 1426 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 04.3 STG R WSPD 10 DIR 135 WEA 02 SEA 2 BAR 04 DRY 76.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 17.37 | 28.906 | 20.79 | 0.607 | 6.80 | 125 | 1.86 | 3 |
| 2 | 17.25 | 28.903 | 20.82 | 0.606 | 6.79 | 125 | 1.90 | 3 |
| 5 | 17.18 | 28.914 | 20.84 | 0.549 | 6.15 | 113 | 1.96 | 3 |
| 10 | 17.18 | 28.919 | 20.84 | 0.589 | 6.60 | 121 | 2.16 | 3 |
| 20 | 17.09 | 28.910 | 20.86 | 0.598 | 6.70 | 123 | 1.96 | 3 |
| 30 | 17.13 | 28.917 | 20.85 | 0.586 | 6.56 | 120 | --- | 3 |

CRUISE PSO 15 STATION 013 SKOOKUM INLET, ENTRANCE

DATE 07/31/58 HR 1505 ZN 08 LAT 47-09.3N LONG 123-01.4W AREA TOT
 TIDE HT 07.2 STG R WSPD 12 DIR 135 WEA 02 SEA 2 BAR 04 DRY 78.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.80 | 28.654 | 20.01 | 0.442 | 4.95 | 95 | 2.57 | 2 |
| 1 | 19.55 | 28.652 | 20.07 | 0.499 | 5.59 | 107 | 2.46 | 3 |
| 2 | 19.31 | 28.695 | 20.17 | 0.551 | 6.17 | 118 | 2.46 | 2 |

CRUISE PSO 15 STATION 014 NEW KAMILCHE

DATE 07/31/58 HR 1526 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 08.8 STG R WSPD 06 DIR 180 WEA 02 SEA 1 BAR 04 DRY 74.0
 CL * AMT * SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.40 | 28.740 | 20.18 | 0.492 | 5.51 | 105 | 2.37 | 3 |
| 2 | 19.37 | 28.744 | 20.19 | 0.469 | 5.25 | 100 | 2.35 | 2 |
| 4 | 18.72 | 28.764 | 20.36 | 0.311 | 3.48 | 66 | --- | 2 |
| 7 | 18.36 | 28.805 | 20.48 | 0.392 | 4.39 | 82 | 2.35 | 2 |
| 12 | 18.09 | 28.814 | 20.55 | 0.464 | 5.20 | 97 | 2.42 | 4 |

CRUISE PSO 15 STATION 015 BURNS POINT

DATE 07/31/58 HR 1550 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 1.2 STG R WSPD 10 DIR 090 WEA 02 SEA 2 BAR 04 DRY 76.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.60 | 28.780 | 20.16 | 0.489 | 5.48 | 105 | 3.36 | 2 |
| 1 | 19.59 | 28.775 | 20.16 | 0.528 | 5.91 | 113 | 2.57 | 2 |
| 2 | 19.38 | 28.766 | 20.20 | 0.481 | 5.39 | 103 | 2.77 | 2 |
| 4 | 18.66 | 28.785 | 20.39 | 0.313 | 3.51 | 66 | 2.76 | 2 |

CRUISE PSO 15 STATION 016 CHURCH POINT, W OF

DATE 07/31/58 HR 1715 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 11.1 STG R WSPD 10 DIR 090 WEA 01 SEA 1 BAR 04 DRY 78.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.96 | 28.661 | 20.47 | 0.620 | 6.94 | 129 | 1.91 | 5 |
| 2 | 17.91 | 28.670 | 20.49 | 0.556 | 6.23 | 116 | 1.91 | 3 |
| 4 | 17.78 | 28.744 | 20.57 | 0.612 | 6.85 | 127 | 2.01 | 4 |
| 7 | 17.73 | 28.746 | 20.59 | 0.557 | 6.24 | 116 | 1.94 | 3 |
| 10 | 17.65 | 28.730 | 20.59 | 0.576 | 6.45 | 119 | 1.90 | 3 |

CRUISE PSO 15 STATION 017 SHELTON

DATE 07/31/58 HR 1738 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 12.2 STG R WSPD 16 DIR 225 WEA 02 SEA 2 BAR 04 DRY 78.0
 CL * AMT * SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.85 | 28.325 | 20.00 | 0.586 | 6.56 | 124 | 3.20 | 3 |
| 2 | 18.85 | 28.345 | 20.01 | 0.595 | 6.66 | 126 | 2.08 | 4 |
| 4 | 18.80 | 28.345 | 20.03 | 0.598 | 6.70 | 126 | 2.11 | 3 |
| 7 | 18.81 | 28.340 | 20.02 | 0.577 | 6.46 | 122 | 2.16 | 4 |

CRUISE PSO 15 STATION 018 CHAPMAN COVE, NW OF

DATE 07/31/58 HR 1857 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 14.4 STG R WSPD 06 DIR 090 WEA 02 SEA 1 BAR 03 DRY 70.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 20.69 | 27.392 | 18.83 | 0.521 | 5.84 | 113 | 2.58 | 4 |
| 1 | 20.56 | 27.412 | 18.88 | 0.497 | 5.57 | 108 | 2.58 | 5 |
| 2 | 20.12 | 27.699 | 19.21 | 0.485 | 5.43 | 105 | 2.55 | 4 |
| 4 | 19.83 | 27.764 | 19.33 | 0.501 | 5.61 | 107 | 2.40 | 4 |

CRUISE PSO 15 STATION 019 NARROWS, N OF

DATE 07/31/58 HR 1917 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 14.5 STG H WSPD 10 DIR 225 WEA 02 SEA 2 BAR 03 DRY 72.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 20.75 | 27.188 | 18.66 | 0.427 | 4.78 | 93 | 2.88 | 3 |
| 1 | 20.71 | 27.282 | 18.74 | 0.462 | 5.17 | 100 | 3.21 | 4 |
| 2 | 20.68 | 27.276 | 18.75 | 0.436 | 4.88 | 95 | 2.79 | 3 |
| 4 | 20.67 | 27.266 | 18.74 | 0.462 | 5.17 | 100 | 2.80 | 3 |
| 7 | 20.56 | 27.323 | 18.81 | 0.469 | 5.25 | 102 | 2.77 | 3 |

CRUISE PSO 15 STATION 020 HUNTER POINT

DATE 08/01/58 HR 717 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 11.6 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 04 DRY 58.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.00 | 29.026 | 21.19 | 0.587 | 6.57 | 118 | 1.21 | 4 |
| 2 | 15.44 | 29.098 | 21.37 | 0.550 | 6.16 | 109 | 1.96 | 2 |
| 5 | 15.38 | 29.112 | 21.39 | 0.518 | 5.80 | 103 | 1.97 | 3 |
| 10 | 15.33 | 29.127 | 21.41 | 0.536 | 6.00 | 106 | 2.01 | 3 |
| 15 | 15.26 | 29.125 | 21.42 | 0.534 | 5.98 | 106 | 1.97 | 4 |

CRUISE PSO 15 STATION 021 COOPER POINT, SW OF

DATE 08/01/58 HR 744 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 10.6 STG F WSPD 02 DIR 180 WEA 02 SEA 1 BAR 05 DRY 65.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.88 | 29.056 | 21.24 | 0.586 | 6.56 | 117 | 1.83 | 3 |
| 5 | 15.66 | 29.080 | 21.30 | 0.551 | 6.17 | 110 | 1.83 | 4 |
| 10 | 15.47 | 29.101 | 21.36 | 0.545 | 6.10 | 108 | 1.98 | 3 |
| 15 | 15.45 | 29.100 | 21.36 | 0.542 | 6.07 | 108 | 1.99 | 2 |
| 25 | 15.17 | 29.123 | 21.44 | 0.530 | 5.94 | 105 | -- | 3 |

CRUISE PSO 15 STATION 022 FLAPJACK POINT

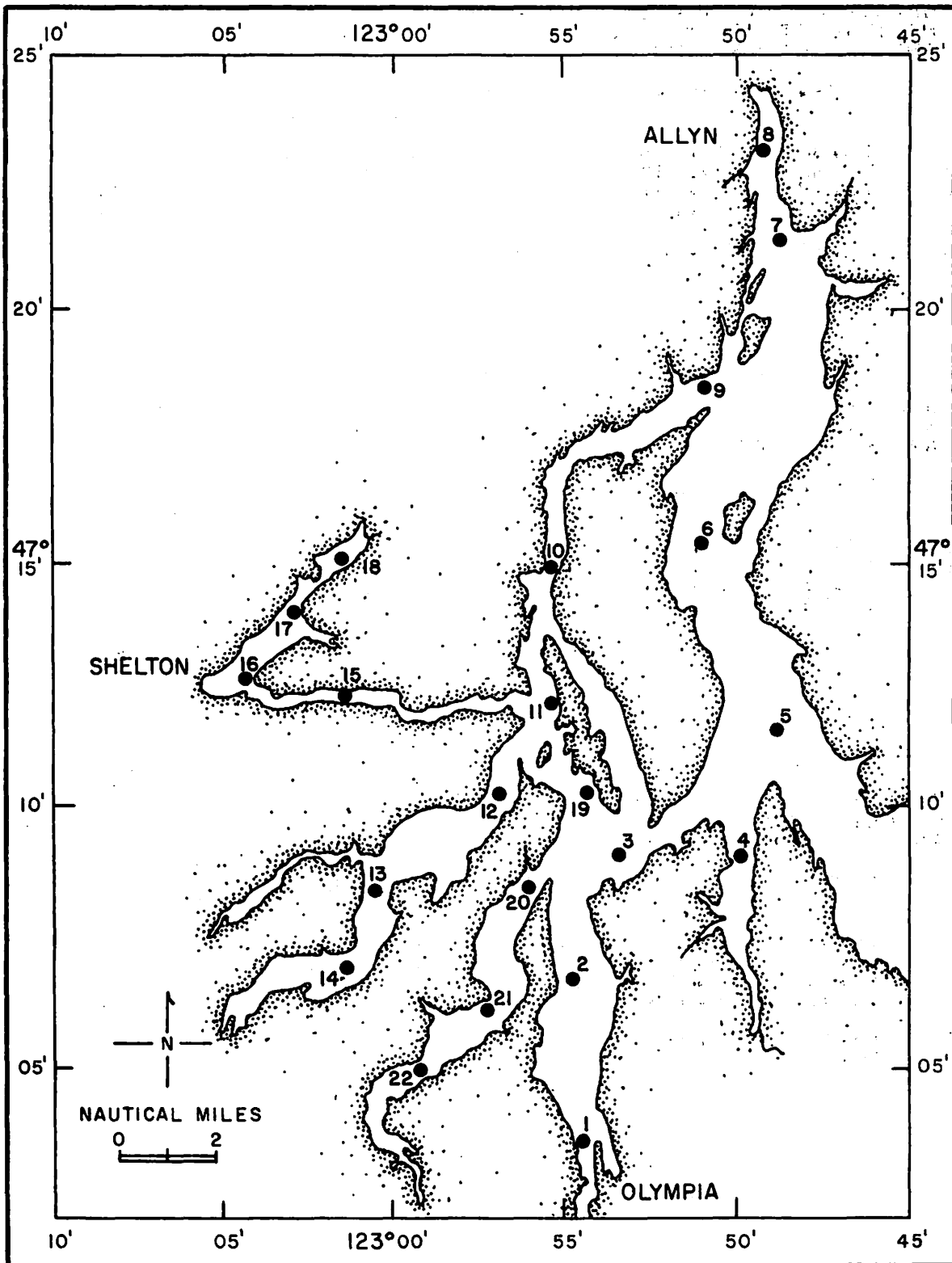
DATE 08/01/58 HR 821 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 09.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 05 DRY 72.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.23 | 28.921 | 20.83 | 0.555 | 6.22 | 114 | 2.32 | 2 |
| 2 | 16.99 | 28.942 | 20.91 | 0.549 | 6.15 | 113 | 2.51 | 2 |
| 4 | 16.05 | 29.020 | 21.17 | 0.500 | 5.60 | 101 | 2.39 | 3 |
| 7 | 15.72 | 29.067 | 21.28 | 0.513 | 5.75 | 103 | 2.41 | 4 |
| 12 | 15.62 | 29.080 | 21.31 | 0.516 | 5.78 | 103 | 2.24 | 4 |

CRUISE PSO 15 STATION 023 ELD INLET, HEAD OF

DATE 08/01/58 HR 849 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 08.2 STG F WSPD 03 DIR 270 WEA 02 SEA 1 BAR 05 DRY 74.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.97 | 28.874 | 20.86 | 0.500 | 5.60 | 102 | 2.79 | 2 |
| 1 | 16.79 | 28.903 | 20.92 | 0.510 | 5.71 | 104 | 3.02 | 3 |
| 2 | 16.51 | 28.906 | 20.99 | 0.509 | 5.70 | 103 | 3.11 | 3 |
| 4 | 16.41 | 28.914 | 21.01 | 0.474 | 5.31 | 96 | 2.66 | 3 |
| 7 | 16.10 | 29.011 | 21.16 | 0.456 | 5.11 | 92 | 2.51 | 2 |
| 10 | 16.00 | 29.024 | 21.19 | 0.464 | 5.20 | 93 | 2.78 | 3 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-16 19-20 AUG. 1958

CRUISE PSO 16 STATION 001 BUDD INLET BUOY NO 12

DATE 08/19/58 HR 723 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 12.5 STG R WSPD 03 DIR 225 WEA 42 SEA 1 BAR 08 DRY 56.0
 CL * AMT * SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.64 | 26.491 | 18.41 | 0.699 | 7.83 | 148 | -- | 4 |
| 2 | 17.00 | 28.901 | 20.87 | 0.400 | 4.48 | 82 | -- | 5 |
| 4 | 16.64 | 29.022 | 21.05 | 0.390 | 4.37 | 79 | -- | 4 |
| 7 | 16.20 | 29.170 | 21.26 | 0.337 | 3.77 | 68 | -- | 4 |
| 10 | 16.10 | 29.170 | 21.28 | 0.330 | 3.70 | 67 | -- | 3 |

CRUISE PSO 16 STATION 002 GULL HARBOR

DATE 08/19/58 HR 802 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 13.0 STG H WSPD 00 DIR WEA 42 SEA 0 BAR 08 DRY 58.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.79 | 28.648 | 20.50 | 0.788 | 8.83 | 163 | 2.38 | 2 |
| 2 | 17.05 | 28.919 | 20.87 | 0.686 | 7.68 | 141 | 2.55 | 4 |
| 5 | 16.20 | 29.179 | 21.26 | 0.547 | 6.13 | 111 | 2.17 | 4 |
| 10 | 15.63 | 29.273 | 21.46 | 0.466 | 5.22 | 93 | 2.30 | 4 |
| 15 | 15.36 | 29.266 | 21.51 | 0.469 | 5.25 | 93 | 2.17 | 4 |

CRUISE PSO 16 STATION 003 DOVER POINT

DATE 08/19/58 HR 838 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 12.8 STG F WSPD 00 DIR WEA 01 SEA 0 BAR 08 DRY 64.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 15.87 | 29.311 | 21.44 | 0.502 | 5.62 | 101 | 2.00 | 4 |
| 5 | 15.56 | 29.314 | 21.51 | 0.481 | 5.39 | 96 | 2.07 | 5 |
| 10 | 15.53 | 29.325 | 21.52 | 0.487 | 5.45 | 97 | 2.05 | 3 |
| 20 | 15.37 | 29.323 | 21.55 | 0.478 | 5.35 | 95 | 1.95 | 4 |
| 30 | 15.25 | 29.331 | 21.58 | 0.473 | 5.30 | 94 | 2.09 | 4 |
| 50 | 15.18 | 29.358 | 21.62 | 0.467 | 5.23 | 92 | 2.36 | 3 |

CRUISE PSO 16 STATION 004 HENDERSON INLET, ENTRANCE

DATE 08/19/58 HR 924 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 12.1 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 08 DRY 70.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.25 | 29.220 | 21.28 | 0.522 | 5.85 | 105 | 2.08 | 3 |
| 2 | 15.82 | 29.276 | 21.42 | 0.494 | 5.53 | 99 | 2.13 | 4 |
| 4 | 15.76 | 29.276 | 21.43 | 0.480 | 5.38 | 96 | 2.16 | 3 |
| 7 | 15.64 | 29.293 | 21.47 | 0.484 | 5.42 | 97 | 1.85 | 4 |
| 10 | 15.61 | 29.293 | 21.48 | 0.478 | 5.35 | 95 | 2.00 | 3 |
| 13 | 15.44 | 29.313 | 21.53 | 0.471 | 5.28 | 94 | 2.13 | 4 |

CRUISE PSO 16 STATION 005 JOHNSON POINT, N OF

DATE 08/19/58 HR 954 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 11.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 08 DRY 70.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 15.59 | 29.313 | 21.50 | 0.512 | 5.73 | 102 | 1.41 | 3 |
| 5 | 15.28 | 29.347 | 21.59 | 0.491 | 5.50 | 97 | 1.97 | 4 |
| 10 | 15.25 | 29.361 | 21.61 | 0.480 | 5.38 | 95 | 2.04 | 3 |
| 20 | 14.77 | 29.437 | 21.77 | 0.456 | 5.11 | 90 | 2.13 | 3 |
| 30 | 14.47 | 29.507 | 21.88 | 0.441 | 4.94 | 86 | 2.13 | 3 |
| 50 | 14.22 | 29.600 | 22.00 | 0.432 | 4.84 | 84 | 2.21 | 4 |
| 70 | 14.07 | 29.533 | 21.98 | 0.426 | 4.77 | 83 | 2.68 | 4 |

CRUISE PSO 16 STATION 006 HERRON ISLAND

DATE 08/19/58 HR 1046 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 09.3 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 08 DRY 70.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 16.39 | 29.251 | 21.28 | 0.567 | 6.35 | 115 | 1.81 | 3 |
| 5 | 15.57 | 29.291 | 21.49 | 0.513 | 5.75 | 102 | 1.78 | 4 |
| 10 | 15.24 | 29.307 | 21.57 | 0.473 | 5.30 | 94 | 2.00 | 4 |
| 20 | 14.86 | 29.383 | 21.71 | 0.451 | 5.05 | 89 | 2.18 | 3 |
| 30 | 14.80 | 29.410 | 21.74 | 0.451 | 5.05 | 89 | --- | 3 |
| 50 | 14.43 | 29.446 | 21.84 | --- | --- | --- | 2.29 | 4 |

CRUISE PSO 16 STATION 007 ROCKY POINT

DATE 08/19/58 HR 1149 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 05.9 STG F WSPD 03 DIR 135 WEA 02 SEA 1 BAR 08 DRY 73.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 20.34 | 28.574 | 19.82 | 0.754 | 8.44 | 164 | 1.02 | 2 |
| 2 | 20.11 | 28.623 | 19.91 | 0.797 | 8.93 | 173 | 1.01 | 3 |
| 5 | 16.68 | 28.807 | 20.87 | 0.484 | 5.42 | 98 | 2.12 | 3 |
| 10 | 15.19 | 28.975 | 21.32 | 0.314 | 3.52 | 62 | 2.98 | 3 |

CRUISE PSO 16 STATION 008 ALLYN

DATE 08/19/58 HR 1211 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 05.1 STG F WSPD 07 DIR 090 WEA 02 SEA 1 BAR 08 DRY 72.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 20.13 | 28.468 | 19.79 | 0.686 | 7.68 | 148 | 1.62 | 1 |
| 1 | 19.43 | 28.554 | 20.03 | 0.710 | 7.95 | 152 | 1.75 | 2 |
| 3 | 17.33 | 28.953 | 20.84 | 0.461 | 5.16 | 95 | 2.55 | 3 |

CRUISE PSO 16 STATION 009 DOUGALL POINT

DATE 08/19/58 HR 1303 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 03.2 STG F WSPD 05 DIR 225 WEA 02 SEA 1 BAR 08 DRY 78.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 18.53 | 29.094 | 20.66 | 0.706 | 7.91 | 149 | 1.34 | 2 |
| 5 | 16.43 | 29.210 | 21.24 | 0.560 | 6.27 | 114 | 1.92 | 3 |
| 10 | 15.72 | 29.235 | 21.41 | 0.483 | 5.41 | 97 | 2.12 | 4 |
| 15 | 15.47 | 29.253 | 21.48 | 0.474 | 5.31 | 94 | 2.00 | 3 |
| 25 | 15.12 | 29.287 | 21.58 | 0.437 | 4.89 | 86 | 2.30 | 3 |

CRUISE PSO 16 STATION 010 GRAHAM POINT

DATE 08/19/58 HR 1403 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 02.6 STG L WSPD 05 DIR 135 WEA 02 SEA 1 BAR 08 DRY 77.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 17.46 | 29.029 | 20.86 | 0.518 | 5.80 | 107 | 1.95 | 3 |
| 5 | 17.41 | 29.033 | 20.88 | 0.519 | 5.81 | 107 | 1.93 | 3 |
| 10 | 17.48 | 29.029 | 20.86 | 0.514 | 5.76 | 106 | 2.05 | 2 |
| 15 | 17.40 | 29.035 | 20.88 | 0.518 | 5.80 | 107 | 2.06 | 2 |

CRUISE PSO 16 STATION 011 ARCADIA

DATE 08/19/58 HR 1441 ZN 08 LAT 47-12.2N LONG 122-55.4W AREA PCK
 TIDE HT 02.6 STG L WSPD 07 DIR 180 WEA 02 SEA 1 BAR 08 DRY 77.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 17.98 | 28.841 | 20.60 | 0.519 | 5.81 | 108 | 1.96 | 2 |
| 2 | 17.86 | 28.968 | 20.72 | 0.537 | 6.01 | 112 | 1.74 | 3 |
| 5 | 17.59 | 29.040 | 20.84 | 0.528 | 5.91 | 110 | 2.04 | 3 |
| 10 | 17.18 | 29.114 | 20.99 | 0.530 | 5.94 | 109 | 2.01 | 2 |

CRUISE PSO 16 STATION 012 WINDY PT. NE OF

DATE 08/19/58 HR 1511 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 03.1 STG R WSPD 02 DIR 360 WEA 02 SEA 1 BAR 08 DRY 82.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 20.01 | 29.076 | 20.28 | 0.575 | 6.44 | 125 | 1.80 | 2 |
| 2 | 18.19 | 29.051 | 20.71 | 0.552 | 6.18 | 116 | 1.87 | 3 |
| 5 | 17.95 | 29.058 | 20.77 | 0.509 | 5.70 | 106 | 2.04 | 3 |
| 10 | 17.66 | 29.072 | 20.85 | 0.526 | 5.89 | 109 | 2.03 | 2 |
| 20 | 17.26 | 29.094 | 20.96 | 0.480 | 5.38 | 99 | 2.05 | 2 |
| 30 | 16.90 | 29.114 | 21.06 | 0.496 | 5.56 | 101 | 2.17 | 3 |

CRUISE PSO 16 STATION 013 NEW KAMILCHE

DATE 08/19/58 HR 1547 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 04.0 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 08 DRY 80.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 20.37 | 29.049 | 20.17 | 0.572 | 6.41 | 125 | 2.97 | 3 |
| 2 | 18.95 | 29.022 | 20.50 | 0.529 | 5.92 | 113 | 2.35 | 3 |
| 4 | 18.79 | 29.031 | 20.55 | 0.512 | 5.73 | 108 | 2.46 | 3 |
| 7 | 18.67 | 29.026 | 20.57 | 0.490 | 5.49 | 104 | 2.30 | 3 |
| 12 | 18.58 | 29.027 | 20.60 | 0.483 | 5.41 | 102 | 3.18 | 3 |

CRUISE PSO 16 STATION 014 BURNS POINT

DATE 08/19/58 HR 1608 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 04.8 STG R WSPD 03 DIR 360 WEA 02 SEA 1 BAR 08 DRY 82.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.75 | 29.026 | 20.31 | 0.413 | 4.63 | 89 | 3.40 | 3 |
| 1 | 19.56 | 29.029 | 20.36 | 0.411 | 4.60 | 88 | 3.51 | 4 |
| 3 | 19.58 | 29.027 | 20.35 | 0.410 | 4.59 | 88 | 3.61 | 3 |

CRUISE PSO 16 STATION 015 CHURCH POINT, W OF

DATE 08/19/58 HR 1737 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 05.9 STG R WSPD 05 DIR 225 WEA 02 SEA 1 BAR 08 DRY 82.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.97 | 28.569 | 20.15 | 0.483 | 5.41 | 102 | 2.23 | 3 |
| 2 | 18.95 | 28.580 | 20.17 | 0.480 | 5.38 | 102 | 2.22 | 3 |
| 4 | 18.89 | 28.572 | 20.18 | 0.482 | 5.40 | 102 | 2.26 | 4 |
| 7 | 18.89 | 28.571 | 20.18 | 0.483 | 5.41 | 102 | 2.29 | 2 |
| 10 | 18.89 | 28.580 | 20.18 | 0.483 | 5.41 | 102 | 2.05 | 3 |

CRUISE PSO 16 STATION 016 SHELTON

DATE 08/19/58 HR 1758 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 06.9 STG R WSPD 05 DIR 135 WEA 02 SEA 1 BAR 07 DRY 80.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.32 | 28.356 | 19.91 | 0.453 | 5.07 | 97 | 2.66 | 3 |
| 2 | 19.31 | 28.358 | 19.91 | 0.451 | 5.05 | 96 | 2.34 | 2 |
| 4 | 19.27 | 28.345 | 19.91 | 0.451 | 5.05 | 95 | --- | 2 |
| 7 | 19.34 | 28.341 | 19.89 | 0.450 | 5.04 | 96 | 2.29 | 2 |

CRUISE PSO 16 STATION 017 CHAPMAN COVE, NW OF

DATE 08/19/58 HR 1821 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 08.8 STG R WSPD 03 DIR 180 WEA 02 SEA 1 BAR 06 DRY 84.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 21.56 | 27.591 | 18.75 | 0.391 | 4.38 | 86 | 2.93 | 3 |
| 1 | 21.16 | 27.605 | 18.87 | 0.384 | 4.30 | 84 | 3.05 | 2 |
| 2 | 20.87 | 27.594 | 18.94 | 0.372 | 4.17 | 81 | 3.01 | 3 |
| 4 | 19.36 | 28.179 | 19.76 | 0.381 | 4.27 | 81 | -- | 3 |

CRUISE PSO 16 STATION 018 NARROWS, N OF

DATE 08/19/58 HR 1838 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 1.2 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 06 DRY 85.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 20.76 | 27.434 | 18.84 | 0.362 | 4.05 | 79 | -- | 3 |
| 1 | 20.77 | 27.320 | 18.76 | 0.358 | 4.01 | 78 | 3.36 | 4 |
| 2 | 20.77 | 27.325 | 18.76 | 0.362 | 4.05 | 79 | 3.23 | 2 |
| 4 | 20.77 | 27.367 | 18.79 | 0.357 | 4.00 | 78 | 3.22 | 3 |
| 7 | 20.62 | 27.432 | 18.88 | 0.351 | 3.93 | 76 | 3.42 | 3 |

CRUISE PSO 16 STATION 019 HUNTER POINT

DATE 08/2 /58 HR 632 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 07.3 STG R WSPD 02 DIR 360 WEA 02 SEA 1 BAR 06 DRY 64.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 16.38 | 29.233 | 21.26 | 0.518 | 5.80 | 105 | 2.05 | 2 |
| 2 | 16.36 | 29.213 | 21.25 | 0.524 | 5.87 | 106 | 2.05 | 2 |
| 5 | 16.03 | 29.255 | 21.36 | 0.518 | 5.80 | 104 | -- | 3 |
| 10 | 15.51 | 29.325 | 21.52 | 0.479 | 5.36 | 96 | -- | 4 |
| 15 | --- | 29.325 | --- | 0.480 | 5.38 | --- | 2.09 | 3 |

CRUISE PSO 16 STATION 020 COOPER POINT, SW OF

DATE 08/2 /58 HR 706 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 09.1 STG R WSPD 03 DIR 045 WEA 02 SEA 1 BAR 08 DRY 65.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | PHOS. | SSL | |
|-------|-------|--------|---------|--------|------------|-------|------|---|
| | | | | MG.AT. | ML/L SATN. | | | |
| 0 | 16.41 | 29.269 | 21.29 | 0.517 | 5.79 | 105 | 1.96 | 2 |
| 5 | 16.05 | 29.249 | 21.35 | 0.501 | 5.61 | 101 | 2.07 | 2 |
| 10 | 15.91 | 29.269 | 21.40 | 0.497 | 5.57 | 100 | 2.11 | 3 |
| 15 | 15.87 | 29.282 | 21.41 | 0.501 | 5.61 | 101 | 2.10 | 2 |
| 25 | 15.85 | 29.271 | 21.41 | 0.502 | 5.62 | 101 | 2.21 | 3 |

CRUISE PSO 16 STATION 021 FLAPJACK POINT

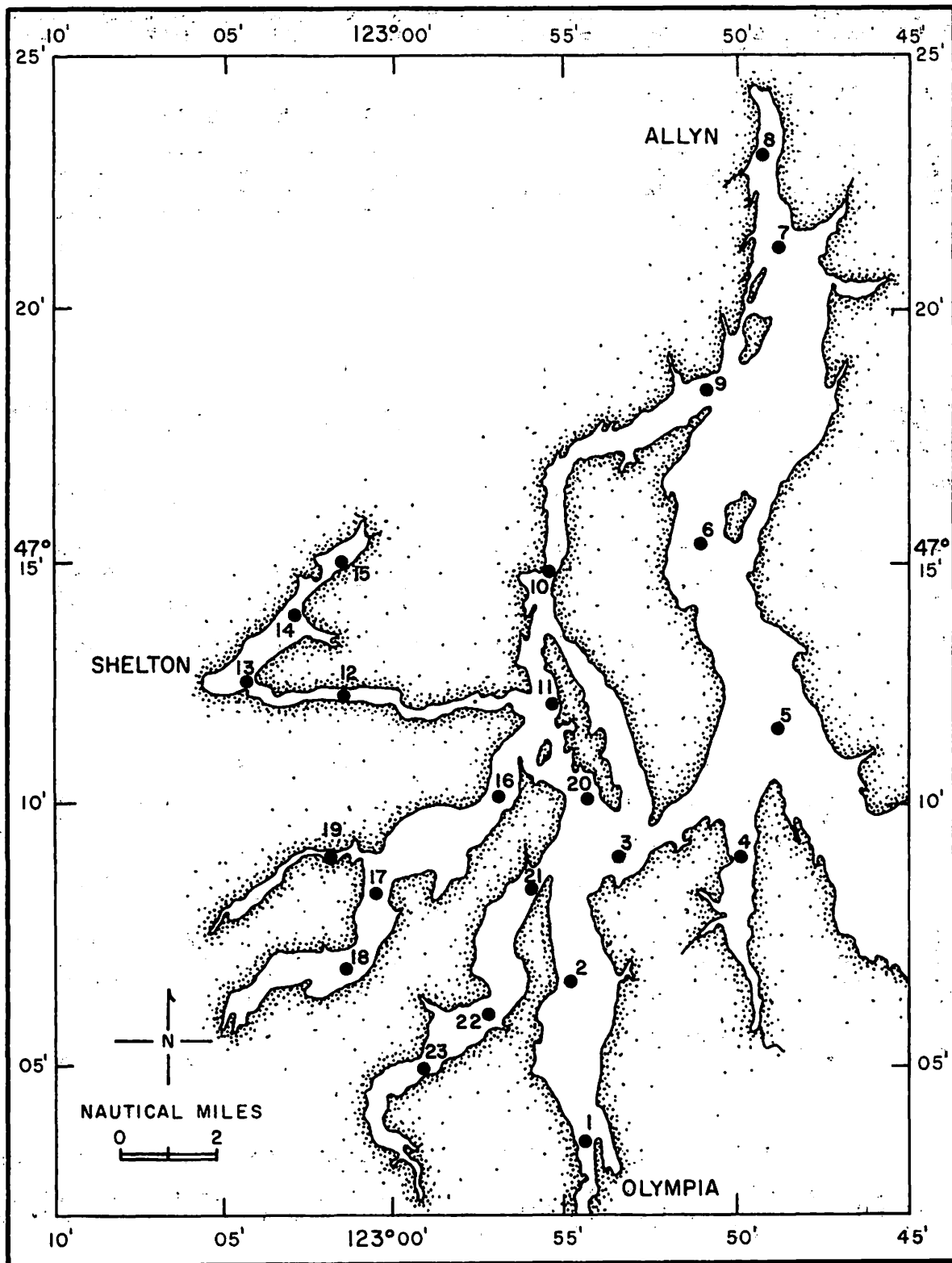
DATE 08/2 /58 HR 740 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 10.6 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 07 DRY 68.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.16 | 29.127 | 20.77 | 0.686 | 7.68 | 144 | 2.35 | 2 |
| 2 | 17.34 | 29.165 | 21.00 | 0.633 | 7.09 | 131 | 2.38 | 3 |
| 4 | 16.89 | 29.170 | 21.10 | 0.592 | 6.63 | 121 | 2.52 | 3 |
| 7 | 16.66 | 29.188 | 21.17 | 0.564 | 6.32 | 115 | 2.51 | 2 |
| 12 | 16.00 | 29.240 | 21.35 | 0.454 | 5.08 | 91 | 2.59 | 3 |

CRUISE PSO 16 STATION 022 ELD INLET, HEAD OF

DATE 08/2 /58 HR 807 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 11.6 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 07 DRY 80.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.94 | 29.002 | 20.73 | 0.483 | 5.41 | 101 | 3.04 | 2 |
| 1 | 17.74 | 29.042 | 20.81 | 0.509 | 5.70 | 106 | 3.02 | 2 |
| 2 | 17.60 | 29.042 | 20.84 | 0.536 | 6.00 | 111 | 3.27 | 2 |
| 4 | 17.51 | 29.081 | 20.89 | 0.565 | 6.33 | 117 | 3.06 | 2 |
| 7 | 16.66 | 29.170 | 21.15 | 0.464 | 5.20 | 95 | 2.82 | 3 |
| 10 | 16.47 | 29.188 | 21.21 | 0.429 | 4.80 | 87 | 2.85 | 2 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-17 9-10 SEPT. 1958

CRUISE PSO 17 STATION 001 BUDD INLET BUOY NO 12

DATE 09/09/58 HR 600 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 02.4 STG F WSPD 06 DIR 180 WEA * SEA 1 BAR 01 DRY 65.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.86 | 24.037 | 17.20 | --- | --- | --- | 2.87 | 4 |
| 2 | 16.00 | 28.957 | 21.14 | --- | --- | --- | --- | 4 |
| 4 | 15.76 | 29.322 | 21.47 | --- | --- | --- | 3.05 | 4 |
| 7 | 15.68 | --- | --- | --- | --- | --- | 3.03 | 4 |
| 10 | 15.56 | 29.350 | 21.53 | --- | --- | --- | 3.11 | 4 |

CRUISE PSO 17 STATION 002 GULL HARBOR

DATE 09/09/58 HR 650 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 01.3 STG F WSPD 05 DIR 180 WEA 01 SEA 1 BAR 01 DRY 65.0
 CL * AMT * SCI 04 SPOB 2 PLK 0=5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.68 | 27.782 | 19.63 | --- | --- | --- | 2.10 | 4 |
| 2 | 16.38 | 29.345 | 21.35 | 0.682 | 7.64 | 138 | 2.08 | 4 |
| 5 | 15.76 | 29.387 | 21.52 | --- | --- | --- | 2.46 | 4 |
| 10 | 15.47 | 29.491 | 21.66 | 0.406 | 4.55 | 81 | 2.23 | 5 |
| 15 | 15.36 | 29.526 | 21.71 | 0.423 | 4.74 | 84 | 2.68 | 5 |

CRUISE PSO 17 STATION 003 DOVER POINT

DATE 09/09/58 HR 724 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 00.9 STG F WSPD 00 DIR WEA 02 SEA 0 BAR 01 DRY 68.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.46 | 29.311 | 21.31 | 0.588 | 6.59 | 120 | 1.96 | 4 |
| 5 | 16.43 | 29.350 | 21.34 | 0.577 | 6.46 | 117 | 1.92 | 5 |
| 10 | 16.11 | 29.457 | 21.50 | 0.539 | 6.04 | 109 | --- | 4 |
| 20 | 15.65 | 29.495 | 21.62 | 0.450 | 5.04 | 90 | 2.07 | 5 |
| 30 | 14.94 | 29.625 | 21.87 | 0.439 | 4.92 | 87 | 2.07 | 5 |
| 50 | 14.68 | 29.652 | 21.95 | 0.422 | 4.73 | 83 | 2.26 | 4 |

CRUISE PSO 17 STATION 004 HENDERSON INLET, ENTRANCE

DATE 09/09/58 HR 805 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 00.8 STG L WSPD 05 DIR 180 WEA * SEA * BAR 01 DRY 73.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.61 | 28.757 | 20.62 | 0.618 | 6.92 | 128 | 2.50 | 6 |
| 2 | 15.93 | 29.453 | 21.53 | 0.444 | 4.97 | 89 | 2.53 | 4 |
| 4 | 15.61 | 29.522 | 21.65 | 0.394 | 4.41 | 79 | 2.22 | 4 |
| 7 | 15.52 | 29.540 | 21.69 | 0.386 | 4.32 | 77 | 2.11 | 5 |
| 10 | 15.25 | 29.567 | 21.77 | 0.411 | 4.60 | 82 | 2.45 | 5 |

CRUISE PSO 17 STATION 005 JOHNSON POINT, N OF

DATE 09/09/58 HR 837 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 01.1 STG R WSPD 00 DIR WEA * SEA * BAR 02 DRY 69.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.07 | 29.466 | 21.51 | 0.522 | 5.85 | 105 | 1.92 | 5 |
| 5 | 15.31 | 29.562 | 21.75 | 0.469 | 5.25 | 93 | 2.07 | 5 |
| 10 | 15.09 | 29.601 | 21.83 | 0.457 | 5.12 | 90 | 2.14 | 5 |
| 20 | 15.04 | 29.621 | 21.85 | 0.448 | 5.02 | 89 | 2.18 | 5 |
| 30 | 15.01 | 29.619 | 21.86 | 0.450 | 5.04 | 89 | 2.19 | 5 |
| 50 | 14.24 | 29.720 | 22.09 | 0.404 | 4.52 | 79 | 2.24 | 5 |
| 70 | 14.20 | 29.717 | 22.10 | 0.381 | 4.27 | 74 | 2.35 | 5 |

CRUISE PSO 17 STATION 006 HERRON ISLAND

DATE 09/09/58 HR 924 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 01.8 STG R WSPD 08 DIR 155 WEA 01 SEA 1 BAR 02 DRY 67.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.89 | 29.401 | 21.28 | 0.558 | 6.25 | 114 | 1.53 | 8 |
| 5 | 16.41 | 29.412 | 21.39 | 0.533 | 5.97 | 108 | 1.62 | 5 |
| 10 | 15.41 | 29.506 | 21.68 | 0.451 | 5.05 | 90 | 1.88 | 6 |
| 20 | 14.64 | 29.639 | 21.95 | 0.378 | 4.23 | 74 | 2.23 | 5 |
| 30 | 14.46 | 29.670 | 22.01 | 0.348 | 3.90 | 68 | 2.42 | 4 |
| 50 | 14.18 | 29.735 | 22.12 | 0.349 | 3.91 | 68 | 2.65 | 5 |

CRUISE PSO 17 STATION 007 ROCKY POINT

DATE 09/09/58 HR 1021 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 03.7 STG R WSPD 08 DIR 150 WEA 02 SEA 1 BAR 02 DRY 72.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.29 | 28.984 | 20.63 | 0.603 | 6.75 | 127 | 1.57 | 4 |
| 2 | 18.00 | 29.045 | 20.75 | 0.627 | 7.02 | 131 | 1.58 | 4 |
| 5 | 16.98 | 29.211 | 21.11 | 0.490 | 5.49 | 100 | 2.19 | 3 |
| 10 | 15.44 | 29.444 | 21.63 | 0.316 | 3.54 | 63 | 2.43 | 4 |
| 15 | 14.82 | 29.509 | 21.81 | 0.252 | 2.82 | 50 | 3.49 | 4 |

CRUISE PSO 17 STATION 008 ALLYN

DATE 09/09/58 HR 1044 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 04.7 STG R WSPD 09 DIR 090 WEA 02 SEA 1 BAR 02 DRY 73.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.12 | 28.652 | 20.42 | 0.509 | 5.70 | 106 | 2.26 | 4 |
| 1 | 18.06 | 28.650 | 20.43 | 0.518 | 5.80 | 108 | 2.30 | 4 |
| 2 | 17.88 | 28.838 | 20.62 | 0.522 | 5.85 | 109 | 2.38 | 4 |
| 4 | 17.84 | 28.957 | 20.72 | 0.521 | 5.84 | 109 | 2.11 | 4 |

CRUISE PSO 17 STATION 009 DOUGALL POINT

DATE 09/09/58 HR 1134 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 07.5 STG R WSPD 00 DIR WEA 02 SEA 0 BAR 02 DRY *
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.48 | 29.408 | 21.38 | 0.522 | 5.85 | 106 | 1.84 | 4 |
| 5 | 15.66 | 29.473 | 21.61 | 0.449 | 5.03 | 90 | 2.16 | 4 |
| 10 | 15.40 | 29.498 | 21.68 | 0.421 | 4.72 | 84 | 2.27 | 5 |
| 15 | 15.43 | 29.493 | 21.67 | 0.419 | 4.69 | 83 | 2.27 | 6 |
| 25 | 14.78 | 29.601 | 21.89 | 0.357 | 4.00 | 70 | 2.45 | 5 |

CRUISE PSO 17 STATION 010 GRAHAM POINT

DATE 09/09/58 HR 1233 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 10.5 STG R WSPD 06 DIR 150 WEA 03 SEA 1 BAR 02 DRY 69.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.53 | 29.307 | 21.29 | 0.501 | 5.61 | 102 | 1.92 | 4 |
| 5 | 16.27 | 29.338 | 21.37 | 0.486 | 5.44 | 98 | 2.07 | 5 |
| 10 | 16.01 | 29.370 | 21.45 | 0.460 | 5.15 | 93 | 2.10 | 5 |
| 15 | 15.95 | 29.405 | 21.49 | 0.449 | 5.03 | 90 | 2.26 | 5 |

CRUISE PSO 17 STATION 011 ARCADIA

DATE 09/09/58 HR 1253 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 11.2 STG R WSPD 04 DIR 300 WEA * SEA * BAR 02 DRY 70.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.09 | 29.132 | 21.03 | 0.535 | 5.99 | 110 | 1.99 | 5 |
| 2 | 17.07 | 29.141 | 21.04 | 0.537 | 6.01 | 110 | 1.96 | 4 |
| 5 | 16.96 | 29.184 | 21.10 | 0.534 | 5.98 | 109 | 1.92 | 7 |
| 10 | 16.95 | 29.186 | 21.10 | 0.529 | 5.92 | 108 | 2.11 | 5 |

CRUISE PSO 17 STATION 012 CHURCH POINT, W OF

DATE 09/09/58 HR 1325 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 09.8 STG R WSPD 00 DIR WEA * SEA * BAR 02 DRY 76.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.38 | 29.044 | 20.89 | 0.539 | 6.04 | 111 | 1.85 | 8 |
| 2 | 17.33 | 29.016 | 20.88 | 0.541 | 6.06 | 112 | 2.03 | 5 |
| 4 | 17.32 | 29.027 | 20.89 | 0.542 | 6.07 | 112 | 1.99 | 5 |
| 7 | 17.35 | 29.026 | 20.89 | 0.545 | 6.10 | 112 | 1.99 | 4 |
| 10 | 17.34 | 29.026 | 20.89 | 0.542 | 6.07 | 112 | 1.92 | 4 |

CRUISE PSO 17 STATION 013 SHELTON

DATE 09/09/58 HR 1344 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 10.6 STG R WSPD 00 DIR WEA * SEA * BAR 02 DRY 75.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.20 | 28.244 | 20.09 | 0.483 | 5.41 | 101 | 2.07 | 6 |
| 2 | 18.13 | 28.504 | 20.31 | 0.515 | 5.77 | 108 | 2.07 | 4 |
| 4 | 18.04 | 28.437 | 20.28 | 0.507 | 5.68 | 106 | 2.16 | 5 |
| 7 | 18.10 | 28.356 | 20.20 | 0.499 | 5.59 | 104 | 2.23 | 5 |

CRUISE PSO 17 STATION 014 CHAPMAN COVE, NW OF

DATE 09/09/58 HR 1407 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 11.6 STG R WSPD 03 DIR 180 WEA * SEA * BAR 02 DRY 73.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 19.13 | 27.457 | 19.27 | 0.412 | 4.61 | 87 | 2.42 | 5 |
| 1 | 18.95 | 27.480 | 19.33 | 0.407 | 4.56 | 85 | 2.26 | 5 |
| 2 | 18.67 | 27.589 | 19.48 | 0.413 | 4.63 | 87 | 2.50 | 5 |
| 4 | 18.26 | 28.035 | 19.92 | 0.435 | 4.87 | 91 | 2.34 | 5 |

CRUISE PSO 17 STATION 015 NARROWS, N OF

DATE 09/09/58 HR 1422 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 12.0 STG R WSPD 00 DIR WEA * SEA * BAR 02 DRY 71.0
 CL * AMT * SCI 01 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.99 | 27.186 | 19.10 | 0.355 | 3.98 | 75 | 2.70 | 6 |
| 1 | 18.93 | 27.213 | 19.14 | 0.352 | 3.94 | 74 | 2.99 | 6 |
| 2 | 18.97 | 27.213 | 19.13 | 0.351 | 3.93 | 74 | 2.93 | 5 |
| 4 | 18.89 | 27.269 | 19.19 | 0.346 | 3.88 | 73 | 2.94 | 5 |

CRUISE PSO 17 STATION 016 WINDY PT, NE OF

DATE 09/09/58 HR 1600 ZN 08 LAT 47-10.4N LONG 122-57.4W AREA TOT
 TIDE HT 13.1 STG F WSPD 05 DIR 200 WEA * SEA 1 BAR 02 DRY 73.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.98 | 29.284 | 21.17 | 0.562 | 6.29 | 115 | 1.94 | 4 |
| 2 | 16.96 | 29.285 | 21.17 | 0.565 | 6.33 | 116 | 2.04 | 5 |
| 5 | 16.93 | 29.287 | 21.18 | 0.566 | 6.34 | 116 | 1.57 | 5 |
| 10 | 16.96 | 29.282 | 21.17 | 0.556 | 6.23 | 114 | 1.89 | 5 |
| 20 | 16.61 | 29.323 | 21.28 | 0.545 | 6.10 | 111 | 2.23 | 4 |
| 30 | 16.23 | 29.381 | 21.41 | 0.527 | 5.90 | 107 | 2.07 | 4 |

CRUISE PSO 17 STATION 017 NEW KAMILCHE

DATE 09/09/58 HR 1638 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 12.4 STG F WSPD 04 DIR 220 WEA * SEA 1 BAR 02 DRY 72.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.32 | 29.154 | 20.76 | 0.573 | 6.42 | 120 | 2.16 | 4 |
| 2 | 17.87 | 29.204 | 20.90 | 0.563 | 6.31 | 118 | 2.04 | 5 |
| 4 | 17.08 | 29.276 | 21.14 | 0.511 | 5.72 | 105 | 2.16 | 4 |
| 7 | 17.02 | 29.282 | 21.16 | 0.503 | 5.63 | 103 | 2.18 | 4 |
| 12 | --.-- | 29.278 | --.-- | 0.498 | 5.58 | --- | 2.22 | 5 |

CRUISE PSO 17 STATION 018 BURNS POINT

DATE 09/09/58 HR 1700 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 11.8 STG F WSPD 08 DIR 250 WEA * SEA 1 BAR 02 DRY 70.0
 CL * AMT * SCI 02 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 18.45 | 29.134 | 20.71 | 0.552 | 6.18 | 116 | 2.43 | 4 |
| 1 | 18.46 | 29.134 | 20.71 | 0.552 | 6.18 | 116 | 2.48 | 3 |
| 2 | 18.14 | 29.150 | 20.80 | 0.555 | 6.22 | 116 | 2.30 | 4 |
| 4 | 17.46 | 29.215 | 21.01 | 0.495 | 5.54 | 102 | 2.30 | 4 |

CRUISE PSO 17 STATION 019 SKOOKUM INLET, ENTRANCE

DATE 09/09/58 HR 1728 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 10.9 STG F WSPD 03 DIR 200 WEA * SEA 1 BAR 02 DRY 70.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.78 | 29.204 | 20.92 | 0.463 | 5.19 | 96 | 2.34 | 4 |
| 1 | 17.78 | 29.154 | 20.88 | 0.465 | 5.21 | 97 | 2.30 | 4 |
| 2 | 17.75 | 29.188 | 20.92 | 0.464 | 5.20 | 96 | 2.38 | 4 |

CRUISE PSO 17 STATION 020 HUNTER POINT

DATE 09/10/58 HR 658 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 02.3 STG F WSPD 06 DIR 120 WEA 60 SEA 1 BAR 97 DRY 59.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.61 | 29.379 | 21.32 | 0.531 | 5.95 | 108 | 1.96 | 5 |
| 2 | 16.64 | 29.379 | 21.32 | 0.471 | 5.28 | 96 | 1.97 | 5 |
| 5 | 16.64 | 29.367 | 21.31 | 0.527 | 5.90 | 108 | 1.92 | 4 |
| 10 | 16.65 | 29.397 | 21.33 | 0.526 | 5.89 | 107 | 2.03 | 5 |
| 15 | 16.60 | 29.432 | 21.37 | 0.527 | 5.90 | 108 | 1.96 | 4 |

CRUISE PSO 17 STATION 021 COOPER POINT, SW OF

DATE 09/10/58 HR 726 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 01.6 STG F WSPD 10 DIR 010 WEA * SEA 1 BAR 96 DRY 60.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.67 | 29.179 | 20.93 | 0.796 | 8.92 | 165 | 2.14 | 4 |
| 5 | 16.70 | 29.374 | 21.30 | 0.635 | 7.11 | 130 | 1.91 | 5 |
| 10 | 15.88 | 29.468 | 21.55 | 0.501 | 5.61 | 101 | 2.07 | 6 |
| 15 | 15.77 | 29.506 | 21.61 | 0.475 | 5.32 | 95 | 2.00 | 6 |
| 25 | 15.53 | 29.520 | 21.67 | 0.463 | 5.19 | 92 | 2.18 | 4 |

CRUISE PSO 17 STATION 022 FLAPJACK POINT

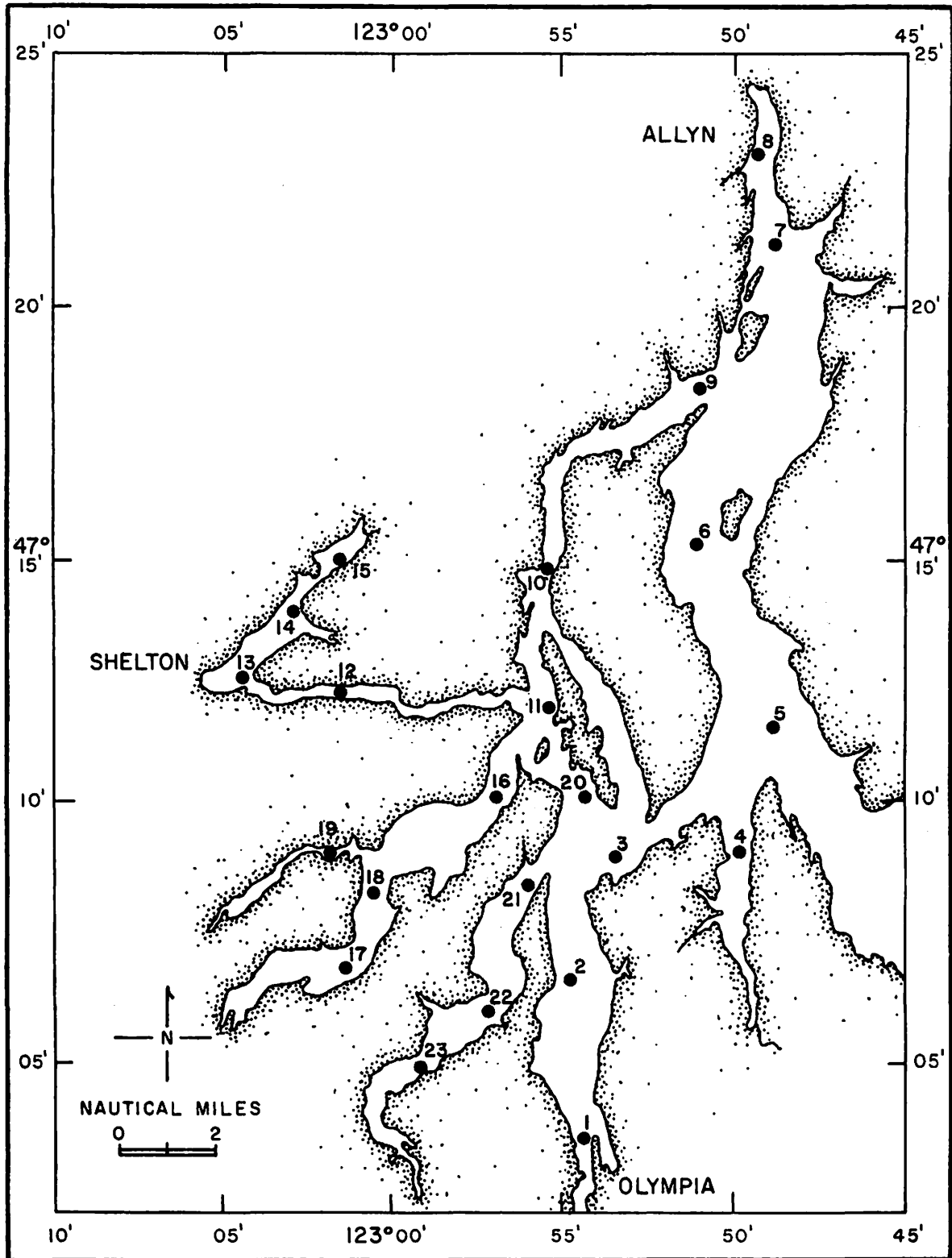
DATE 09/10/58 HR 758 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 00.9 STG F WSPD 00 DIR WEA * SEA 0 BAR 96 DRY 61.0
 CL * AMT * SCI 03 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 17.00 | 29.179 | 21.08 | 0.570 | 6.38 | 117 | 2.84 | 5 |
| 2 | 16.97 | 29.193 | 21.10 | 0.537 | 6.01 | 110 | 2.98 | 5 |
| 4 | 16.54 | 29.397 | 21.35 | 0.499 | 5.59 | 102 | 2.92 | 6 |
| 7 | 16.13 | 29.446 | 21.48 | 0.418 | 4.68 | 84 | 2.46 | 5 |
| 12 | 16.00 | 29.464 | 21.52 | 0.336 | 3.76 | 68 | 2.65 | 4 |

CRUISE PSO 17 STATION 023 ELD INLET, HEAD OF

DATE 09/10/58 HR 822 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 00.6 STG F WSPD 00 DIR WEA * SEA * BAR 96 DRY 62.0
 CL * AMT * SCI 03 SPOB *

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 16.95 | 29.045 | 20.99 | 0.315 | 3.53 | 65 | 3.27 | 3 |
| 1 | 16.80 | 29.143 | 21.10 | 0.300 | 3.36 | 61 | 3.32 | 5 |
| 2 | 16.56 | 29.278 | 21.26 | 0.312 | 3.49 | 64 | 3.07 | 5 |
| 4 | 16.46 | 29.305 | 21.30 | 0.317 | 3.55 | 64 | 2.99 | 4 |
| 9 | 16.26 | 29.403 | 21.42 | 0.306 | 3.43 | 62 | 2.84 | 5 |



OCEANOGRAPHIC STATION LOCATIONS
PSO-18 11-12 OCT. 1958

CRUISE PSO 18 STATION 001 BUDD INLET BUOY NO 12

DATE 10/11/58 HR 635 ZN 08 LAT 47-03.7N LONG 122-54.4W AREA BUD
 TIDE HT 08.5 STG F WSPD 06 DIR 180 WEA * SEA * BAR * DRY *
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.20 | 27.795 | 20.62 | 0.413 | 4.63 | 79 | 2.28 | 4 |
| 2 | 14.17 | 29.493 | 21.93 | 0.436 | 4.88 | 95 | 2.27 | 4 |
| 4 | 14.19 | --- | --- | 0.427 | 4.78 | -- | 2.14 | 3 |
| 7 | 14.15 | 29.674 | 22.07 | 0.437 | 4.89 | 85 | 2.10 | 4 |
| 10 | 14.18 | 29.674 | 22.07 | 0.437 | 4.89 | 85 | 2.15 | 4 |

CRUISE PSO 18 STATION 002 GULL HARBOR

DATE 10/11/58 HR 717 ZN 08 LAT 47-06.9N LONG 122-54.8W AREA BUD
 TIDE HT 06.1 STG F WSPD 12 DIR 180 WEA * SEA 2 BAR 03 DRY 57.0
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.00 | 29.450 | 21.93 | 0.478 | 5.35 | 92 | 1.99 | 4 |
| 2 | 14.05 | 29.457 | 21.93 | 0.484 | 5.42 | 94 | 2.02 | 5 |
| 5 | 14.09 | 29.571 | 22.01 | 0.477 | 5.34 | 93 | 1.88 | 4 |
| 10 | 13.84 | 29.758 | 22.20 | 0.442 | 4.95 | 85 | 2.24 | 3 |
| 15 | 13.84 | 29.773 | 22.21 | 0.431 | 4.83 | 83 | 2.40 | 5 |

CRUISE PSO 18 STATION 003 DOVER POINT

DATE 10/11/58 HR 759 ZN 08 LAT 47-09.1N LONG 122-53.6W AREA DNA
 TIDE HT 04.3 STG F WSPD 10 DIR 180 WEA * SEA * BAR 04 DRY 57.5
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.93 | 29.706 | 22.14 | 0.450 | 5.04 | 87 | 2.06 | 6 |
| 5 | 13.92 | 29.724 | 22.16 | 0.448 | 5.02 | 87 | 1.99 | 5 |
| 10 | 13.91 | 29.722 | 22.16 | 0.443 | 4.96 | 86 | 1.91 | 5 |
| 20 | 13.88 | 29.720 | 22.16 | 0.443 | 4.96 | 86 | 2.07 | 4 |
| 30 | 13.91 | 29.731 | 22.17 | 0.442 | 4.95 | 85 | 2.04 | 4 |
| 50 | 13.85 | 29.766 | 22.21 | 0.436 | 4.88 | 84 | 2.01 | 5 |

CRUISE PSO 18 STATION 004 HENDERSON INLET, MIDDLE

DATE 10/11/58 HR 834 ZN 08 LAT 47-09.2N LONG 122-49.9W AREA HDR
 TIDE HT 03.2 STG F WSPD 10 DIR 170 WEA * SEA * BAR 04 DRY 57.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.95 | 29.600 | 22.06 | 0.455 | 5.10 | 88 | 2.23 | 5 |
| 2 | 13.96 | 29.601 | 22.06 | 0.458 | 5.13 | 89 | 2.23 | 6 |
| 4 | 13.94 | 29.652 | 22.10 | 0.461 | 5.16 | 89 | 2.17 | 5 |
| 7 | 13.91 | 29.735 | 22.17 | 0.444 | 4.97 | 86 | 2.28 | 6 |
| 10 | 13.86 | 29.809 | 22.24 | 0.425 | 4.76 | 82 | 2.31 | 5 |

CRUISE PSO 18 STATION 005 JOHNSON POINT, N OF

DATE 10/11/58 HR 909 ZN 08 LAT 47-11.8N LONG 122-48.4W AREA CSE
 TIDE HT 02.7 STG F WSPD 15 DIR 170 WEA * SEA * BAR 03 DRY 58.5
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.85 | 29.643 | 22.11 | 0.426 | 4.77 | 82 | 2.10 | 6 |
| 5 | 13.82 | 29.697 | 22.16 | 0.446 | 5.00 | 86 | 2.10 | 5 |
| 10 | 13.78 | 29.726 | 22.19 | 0.424 | 4.75 | 82 | 2.06 | 5 |
| 20 | 13.76 | 29.697 | 22.17 | 0.422 | 4.73 | 81 | 2.10 | 4 |
| 29 | 13.80 | 29.805 | 22.25 | 0.419 | 4.69 | 81 | 1.92 | 4 |
| 49 | 13.82 | 29.829 | 22.25 | -.--- | -.--- | --- | 2.21 | 4 |

CRUISE PSO 18 STATION 006 HERRON ISLAND

DATE 10/11/58 HR 1037 ZN 08 LAT 47-15.5N LONG 122-51.2W AREA CSE
 TIDE HT 02.6 STG R WSPD 10 DIR 170 WEA * SEA * BAR * DRY 61.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.08 | 29.580 | 22.02 | 0.492 | 5.51 | 96 | 1.98 | 3 |
| 5 | 14.07 | 29.668 | 22.09 | 0.492 | 5.51 | 96 | 1.99 | 4 |
| 10 | 14.16 | 29.664 | 22.07 | 0.489 | 5.48 | 95 | 1.95 | 5 |
| 20 | 13.98 | 29.832 | 22.23 | 0.423 | 4.74 | 82 | 2.20 | 5 |
| 30 | 13.90 | 29.825 | 22.24 | 0.418 | 4.68 | 81 | 2.20 | 5 |
| 50 | 13.73 | 29.887 | 22.32 | 0.376 | 4.21 | 73 | 2.42 | 4 |

CRUISE PSO 18 STATION 007 ROCKY POINT

DATE 10/11/58 HR 1140 ZN 08 LAT 47-21.2N LONG 122-48.6W AREA CSE
 TIDE HT 04.2 STG R WSPD 10 DIR 180 WEA * SEA * BAR 03 DRY 63.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|-------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.54 | 28.785 | 21.31 | 0.537 | 6.01 | 105 | 1.70 | 2 |
| 2 | 14.50 | 29.289 | 21.71 | 0.545 | 6.10 | 106 | 1.74 | 3 |
| 5 | 14.45 | 29.439 | 21.83 | 0.542 | 6.07 | 106 | 1.63 | 4 |
| 10 | 14.31 | 29.526 | 21.83 | -.--- | -.--- | --- | 1.48 | 3 |
| 15 | 14.30 | 29.666 | 22.04 | 0.484 | 5.42 | 94 | 2.15 | 3 |

CRUISE PSO 18 STATION 008 ALLYN

DATE 10/11/58 HR 1204 ZN 08 LAT 47-23.0N LONG 122-49.3W AREA CSE
 TIDE HT 05.3 STG R WSPD 10 DIR 190 WEA * SEA * BAR 03 DRY 64.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.66 | 29.042 | 21.49 | 0.525 | 5.88 | 103 | 1.76 | 4 |
| 1 | 14.66 | 29.031 | 21.48 | 0.546 | 6.12 | 107 | 1.52 | 3 |
| 2 | 14.60 | 29.029 | 21.49 | 0.543 | 6.08 | 106 | 1.62 | 3 |
| 4 | 14.59 | 29.033 | 21.49 | 0.538 | 6.03 | 105 | 1.52 | 2 |

CRUISE PSO 18 STATION 009 DOUGALL POINT

DATE 10/11/58 HR 1301 ZN 08 LAT 47-18.4N LONG 122-51.0W AREA PCK
 TIDE HT 09.5 STG R WSPD 10 DIR 190 WEA * SEA * BAR 03 DRY 62.0
 CL * AMT * SCI 07 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.16 | 29.753 | 22.13 | 0.461 | 5.16 | 90 | 2.28 | 4 |
| 5 | 14.14 | 29.746 | 22.13 | 0.461 | 5.16 | 90 | 2.10 | 4 |
| 10 | 14.14 | 29.753 | 22.14 | 0.462 | 5.17 | 90 | 1.99 | 3 |
| 15 | 14.13 | 29.751 | 22.14 | 0.454 | 5.08 | 88 | 2.08 | 4 |
| 25 | 13.92 | 29.751 | 22.18 | 0.456 | 5.11 | 88 | 2.12 | 5 |

CRUISE PSO 18 STATION 010 GRAHAM POINT

DATE 10/11/58 HR 1349 ZN 08 LAT 47-15.0N LONG 122-55.4W AREA PCK
 TIDE HT 12.6 STG R WSPD 08 DIR 180 WEA * SEA * BAR 03 DRY 61.0
 CL * AMT * SCI 05 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.30 | 29.437 | 21.86 | 0.467 | 5.23 | 91 | 2.16 | 3 |
| 5 | 14.34 | 29.439 | 21.86 | 0.466 | 5.22 | 91 | 2.20 | 3 |
| 10 | 14.30 | 29.430 | 21.86 | --- | --- | --- | 2.19 | 4 |
| 15 | 14.29 | 29.437 | 21.86 | 0.201 | 2.25 | 39 | 2.14 | 4 |

CRUISE PSO 18 STATION 011 ARCADIA

DATE 10/11/58 HR 1423 ZN 08 LAT 47-12.2N LONG 122-55.5W AREA PCK
 TIDE HT 13.7 STG R WSPD 06 DIR 170 WEA * SEA * BAR 03 DRY 61.5
 CL * AMT * SCI 06 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.33 | 29.345 | 21.79 | 0.473 | 5.30 | 92 | 1.84 | 4 |
| 5 | 14.30 | 29.358 | 21.80 | 0.473 | 5.30 | 92 | 2.25 | 4 |
| 10 | 14.32 | 29.347 | 21.79 | 0.473 | 5.30 | 92 | 2.13 | 4 |

CRUISE PSO 18 STATION 012 CHURCH POINT, W OF

DATE 10/11/58 HR 1457 ZN 08 LAT 47-12.4N LONG 123-01.0W AREA HAM
 TIDE HT 13.2 STG R WSPD 02 DIR 170 WEA * SEA * BAR 03 DRY 64.0
 CL * AMT * SCI 04 SPOB 2 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.42 | 29.165 | 21.63 | 0.472 | 5.29 | 92 | 2.12 | 4 |
| 2 | 14.33 | 29.085 | 21.59 | 0.470 | 5.26 | 91 | 2.10 | 5 |
| 4 | 14.42 | 29.080 | 21.56 | 0.472 | 5.29 | 92 | 2.06 | 4 |
| 7 | 14.40 | 29.152 | 21.62 | 0.470 | 5.26 | 92 | 2.17 | 4 |
| 10 | 14.38 | 29.217 | 21.68 | 0.472 | 5.29 | 92 | 2.13 | 4 |

CRUISE PSO 18 STATION 013 SHELTON

DATE 10/11/58 HR 1519 ZN 08 LAT 47-12.7N LONG 123-04.4W AREA OAK
 TIDE HT 13.8 STG R WSPD * DIR * WEA * SEA * BAR 03 DRY 63.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.58 | 28.551 | 21.13 | 0.456 | 5.11 | 89 | 2.17 | 6 |
| 2 | 14.48 | 28.596 | 21.18 | 0.456 | 5.11 | 89 | 2.13 | 6 |
| 4 | 14.52 | 28.666 | 21.23 | 0.460 | 5.15 | 89 | 2.17 | 5 |
| 7 | 14.48 | 28.919 | 21.43 | 0.468 | 5.24 | 91 | 1.95 | 2 |

CRUISE PSO 18 STATION 014 CHAPMAN COVE, NW OF

DATE 10/11/58 HR 1545 ZN 08 LAT 47-14.1N LONG 123-03.0W AREA OAK
 TIDE HT 14.2 STG R WSPD 10 DIR 210 WEA * SEA * BAR 03 DRY *
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.82 | 27.123 | 19.98 | 0.422 | 4.73 | 82 | 2.46 | 4 |
| 1 | 14.74 | 27.304 | 20.14 | 0.417 | 4.67 | 81 | 2.39 | 6 |
| 2 | 14.72 | 27.498 | 20.29 | 0.418 | 4.68 | 81 | 2.28 | 5 |
| 4 | 14.82 | 27.495 | 20.27 | 0.411 | 4.60 | 80 | 2.27 | 4 |

CRUISE PSO 18 STATION 015 NARROWS, N OF

DATE 10/11/58 HR 1609 ZN 08 LAT 47-15.0N LONG 123-01.6W AREA OAK
 TIDE HT 14.3 STG R WSPD 06 DIR 200 WEA * SEA * BAR 03 DRY 62.0
 CL * AMT * SCI 02 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.85 | 26.370 | 19.40 | 0.409 | 4.58 | 79 | 2.42 | 4 |
| 1 | 14.84 | 26.634 | 19.40 | --- | --- | --- | 2.50 | 5 |
| 2 | 14.82 | 26.632 | 19.61 | 0.406 | 4.55 | 78 | 2.50 | 4 |
| 4 | 14.82 | 26.863 | 19.78 | 0.407 | 4.56 | 79 | 2.42 | 4 |
| 7 | 14.85 | 26.892 | 19.80 | 0.409 | 4.58 | 79 | 2.53 | 5 |

CRUISE PSO 18 STATION 016 WINDY PT, NE OF

DATE 10/11/58 HR 1744 ZN 08 LAT 47-10.4N LONG 122-57.2W AREA TOT
 TIDE HT 12.6 STG F WSPD 00 DIR WEA * SEA * BAR 03 DRY 61.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.20 | 29.500 | 21.93 | 0.471 | 5.28 | 92 | 2.09 | 4 |
| 2 | 14.20 | 29.515 | 21.94 | 0.472 | 5.29 | 92 | 1.88 | 5 |
| 5 | 14.21 | 29.509 | 21.94 | 0.471 | 5.28 | 92 | 2.15 | 4 |
| 10 | 14.20 | 29.511 | 21.94 | 0.464 | 5.20 | 90 | 1.81 | 4 |
| 20 | 14.17 | 29.518 | 21.95 | 0.499 | 5.59 | 97 | 1.66 | 4 |
| 30 | 14.20 | 29.515 | 21.94 | 0.467 | 5.23 | 91 | 1.99 | 4 |

CRUISE PSO 18 STATION 017 BURNS POINT

DATE 10/12/58 HR 629 ZN 08 LAT 47-07.0N LONG 123-01.6W AREA TOT
 TIDE HT 11.8 STG F WSPD 00 DIR WEA * SEA * BAR 02 DRY 58.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.66 | 28.901 | 21.38 | 0.442 | 4.95 | 86 | 2.31 | 3 |
| 1 | 14.59 | 28.997 | 21.47 | 0.448 | 5.02 | 88 | 2.31 | 4 |
| 2 | 14.61 | 29.013 | 21.47 | 0.448 | 5.02 | 88 | 2.22 | 5 |
| 4 | 14.60 | 29.089 | 21.53 | 0.450 | 5.04 | 88 | 2.32 | 3 |

CRUISE PSO 18 STATION 018 NEW KAMILCHE

DATE 10/12/58 HR 650 ZN 08 LAT 47-08.4N LONG 123-00.8W AREA TOT
 TIDE HT 11.0 STG F WSPD 00 DIR WEA * SEA * BAR 02 DRY *
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.50 | 29.161 | 21.61 | 0.450 | 5.04 | 88 | 2.34 | 3 |
| 2 | 14.54 | 29.174 | 21.61 | 0.453 | 5.07 | 88 | 2.25 | 4 |
| 4 | 14.50 | 29.177 | 21.62 | 0.456 | 5.11 | 89 | 2.59 | 4 |
| 7 | 14.52 | 29.190 | 21.63 | 0.472 | 5.29 | 92 | 1.84 | 4 |
| 12 | 14.51 | 29.276 | 21.70 | 0.463 | 5.19 | 90 | 2.31 | 3 |

CRUISE PSO 18 STATION 019 SKOOKUM INLET, ENTRANCE

DATE 10/12/58 HR 710 ZN 08 LAT 47-09.2N LONG 123-01.9W AREA TOT
 TIDE HT 10.1 STG F WSPD 01 DIR WEA * SEA * BAR 02 DRY 58.0
 CL * AMT * SCI 03 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.57 | 29.056 | 21.52 | 0.422 | 4.73 | 82 | 2.02 | 4 |
| 1 | 14.56 | 29.056 | 21.52 | 0.421 | 4.72 | 82 | 2.37 | 4 |
| 2 | 14.54 | 29.058 | 21.52 | 0.420 | 4.70 | 82 | 2.31 | 4 |

CRUISE PSO 18 STATION 020 HUNTER POINT

DATE 10/12/58 HR 815 ZN 08 LAT 47-10.3N LONG 122-54.5W AREA SQX
 TIDE HT 06.4 STG F WSPD 07 DIR 160 WEA * SEA * BAR 02 DRY 60.0
 CL * AMT * SCI 06 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.12 | 29.529 | 21.97 | 0.454 | 5.08 | 88 | 1.99 | 4 |
| 2 | 14.12 | 29.527 | 21.97 | 0.453 | 5.07 | 88 | 2.10 | 4 |
| 5 | 14.12 | 29.526 | 21.97 | 0.452 | 5.06 | 88 | 2.13 | 4 |
| 10 | 14.10 | 29.545 | 21.99 | 0.453 | 5.07 | 88 | 2.06 | 6 |
| 15 | 14.10 | 29.553 | 21.99 | 0.451 | 5.05 | 88 | 1.89 | 5 |

CRUISE PSO 18 STATION 021 COOPER POINT, SW OF

DATE 10/12/58 HR 836 ZN 08 LAT 47-08.3N LONG 122-56.3W AREA ELD
 TIDE HT 05.5 STG F WSPD 09 DIR 140 WEA * SEA * BAR 02 DRY 59.0
 CL * AMT * SCI 07 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 13.98 | 29.690 | 22.12 | 0.453 | 5.07 | 88 | 2.09 | 4 |
| 5 | 13.94 | 29.740 | 22.17 | 0.444 | 4.97 | 86 | 2.21 | 4 |
| 10 | 13.92 | 29.738 | 22.17 | 0.439 | 4.92 | 85 | 2.21 | 3 |
| 15 | 13.90 | 29.760 | 22.19 | 0.438 | 4.91 | 85 | 2.17 | 5 |
| 25 | 13.90 | 29.757 | 22.19 | 0.432 | 4.84 | 84 | 2.20 | 4 |

CRUISE PSO 18 STATION 022 FLAPJACK POINT

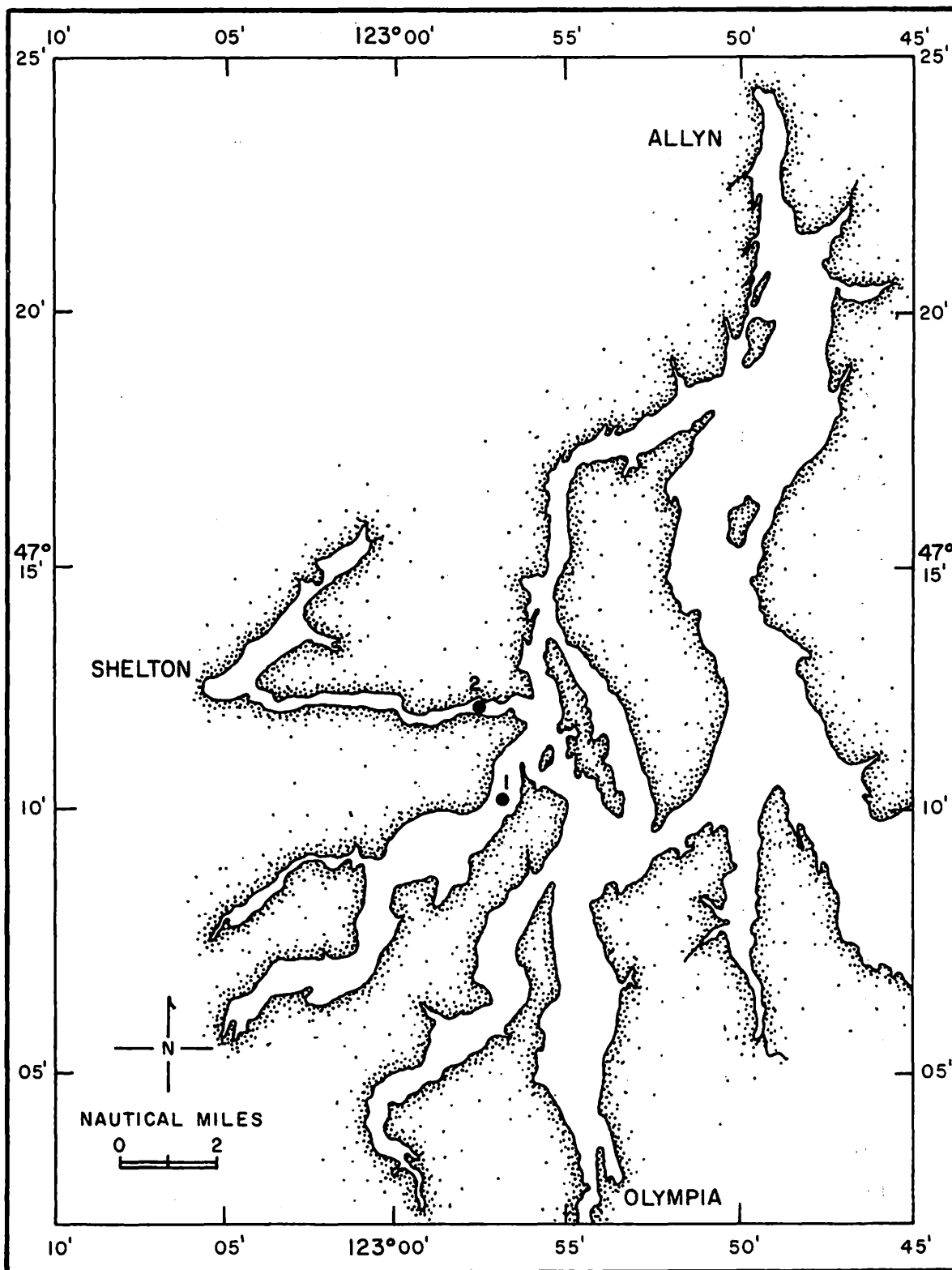
DATE 10/12/58 HR 909 ZN 08 LAT 47-06.0N LONG 122-57.3W AREA ELD
 TIDE HT 04.3 STG F WSPD 10 DIR 200 WEA * SEA * BAR 02 DRY 60.0
 CL * AMT * SCI 07 SPOB 1 PLK 0.1

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.23 | 29.529 | 21.95 | 0.465 | 5.21 | 90 | 2.24 | 3 |
| 2 | 14.20 | 29.524 | 21.95 | 0.470 | 5.26 | 91 | 2.24 | 4 |
| 4 | 14.20 | 29.533 | 21.96 | 0.465 | 5.21 | 90 | 2.20 | 4 |
| 7 | 14.19 | 29.526 | 21.95 | 0.464 | 5.20 | 90 | 2.37 | 4 |
| 12 | 14.18 | 29.535 | 21.96 | 0.460 | 5.15 | 89 | 2.26 | 5 |

CRUISE PSO 18 STATION 023 ELD INLET, HEAD OF

DATE 10/12/58 HR 939 ZN 08 LAT 47-05.0N LONG 122-59.3W AREA ELD
 TIDE HT 03.5 STG F WSPD 05 DIR 190 WEA * SEA * BAR 03 DRY 60.0
 CL * AMT * SCI 04 SPOB 1 PLK 0.5

| DEPTH | TEMP. | SAL. | SIGMA-T | OXYGEN | | | PHOS. | SSL |
|-------|-------|--------|---------|--------|------|-------|-------|-----|
| | | | | MG.AT. | ML/L | SATN. | | |
| 0 | 14.26 | 29.303 | 21.77 | 0.405 | 4.54 | 79 | 2.53 | 4 |
| 1 | 14.26 | 29.307 | 21.77 | 0.407 | 4.56 | 79 | 2.53 | 3 |
| 2 | 14.24 | 29.340 | 21.80 | 0.411 | 4.60 | 80 | 2.55 | 3 |
| 4 | 14.24 | 29.388 | 21.84 | 0.412 | 4.61 | 80 | 2.51 | 4 |
| 7 | 14.21 | 29.430 | 21.88 | 0.417 | 4.67 | 81 | 2.53 | 4 |
| 10 | 14.21 | 29.430 | 21.88 | 0.422 | 4.73 | 82 | 2.45 | 5 |



**CURRENT STATION LOCATIONS
BB 187 11-14 FEB. 1958**

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 0 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 11, 1958 | | | FEB. 12, 1958 | | |
| 1426 | 0.75 | 012 | 1739 | 0.76 | 037 |
| 1518 | 0.81 | 350 | 1852 | 0.63 | 020 |
| 1621 | 0.62 | 010 | 1955 | 0.14 | 015 |
| 1713 | 0.67 | 102 | 2035 | 0.00 | --- |
| 1819 | 0.07 | 102 | 2122 | 0.15 | 235 |
| 1938 | 0.64 | 235 | 2203 | 0.09 | 062 |
| 2028 | 0.76 | 217 | 2244 | 0.23 | 200 |
| 2112 | 1.16 | 220 | 2327 | 0.87 | 164 |
| 2155 | 1.64 | 212 | FEB. 13, 1958 | | |
| 2240 | 0.68 | --- | 0017 | 0.47 | 124 |
| 2322 | 0.36 | --- | 0110 | 0.77 | 164 |
| FEB. 12, 1958 | | | 0209 | 0.65 | 119 |
| 0012 | 0.64 | 202 | 0301 | 0.62 | 050 |
| 0110 | 0.54 | 182 | 0400 | 0.55 | 039 |
| 0300 | 0.10 | 032 | 0502 | 0.50 | 055 |
| 0421 | 0.00 | --- | 0605 | 0.58 | 032 |
| 0543 | 0.00 | --- | 0616 | 0.52 | 045 |
| 0702 | 0.00 | --- | 0714 | 0.45 | 040 |
| 0813 | 0.23 | 214 | 0813 | 0.34 | 020 |
| 0901 | 0.14 | 212 | 0855 | 0.19 | 015 |
| 0940 | 0.41 | 222 | 1002 | 0.09 | --- |
| 1018 | 0.31 | 238 | 1050 | 0.10 | --- |
| 1058 | 0.08 | 345 | 1147 | 0.44 | 036 |
| 1148 | 0.22 | 030 | 1302 | 0.55 | 044 |
| 1251 | 0.14 | 050 | 1408 | 0.52 | 012 |
| 1306 | 0.65 | 008 | 1508 | 0.70 | 037 |
| 1405 | 0.82 | 037 | 1609 | 0.81 | 029 |
| 1525 | 0.83 | --- | 1707 | 0.84 | 027 |
| 1534 | 0.85 | 040 | 1808 | 0.80 | 032 |
| 1636 | 0.79 | 037 | 1918 | 0.77 | 011 |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 0 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 13, 1958 | | | FEB. 14, 1958 | | |
| 2020 | 0.37 | 355 | 0003 | 1.08 | 192 |
| 2112 | 0.17 | 334 | 0103 | 0.92 | 173 |
| 2225 | 0.15 | 252 | 0155 | 1.04 | 224 |
| 2319 | 1.13 | 235 | 0246 | 0.54 | 154 |
| | | | 0335 | 0.78 | 147 |
| | | | 0440 | 0.26 | 118 |

DEPTH - 5 M.

| FEB. 11, 1958 | | | FEB. 12, 1958 | | |
|---------------|------|-----|---------------|------|-----|
| 1437 | 0.81 | 002 | 0909 | 0.26 | 236 |
| 1530 | 0.70 | 015 | 0948 | 0.32 | 216 |
| 1631 | 0.00 | --- | 1026 | 0.05 | --- |
| 1723 | 1.51 | 000 | 1110 | 0.23 | 313 |
| 1833 | 0.15 | 122 | 1156 | 0.12 | 262 |
| 1948 | 0.26 | 260 | 1323 | 0.40 | 007 |
| 2037 | 0.59 | 227 | 1414 | 0.51 | 012 |
| 2119 | 0.98 | --- | 1546 | 0.65 | 014 |
| 2204 | 1.43 | 196 | 1647 | 0.71 | 015 |
| 2248 | 0.59 | 191 | 1750 | 0.06 | --- |
| 2330 | 0.49 | 192 | 1800 | 0.08 | --- |
| FEB. 12, 1958 | | | 1903 | 0.41 | 032 |
| 0020 | 0.30 | 187 | 2003 | 0.14 | 332 |
| 0142 | 0.25 | 082 | 2044 | 0.19 | 242 |
| 0315 | 0.37 | 051 | 2130 | 0.54 | 202 |
| 0438 | 0.32 | 012 | 2210 | 0.35 | 202 |
| 0558 | 0.07 | 067 | 2252 | 0.91 | 187 |
| 0716 | 0.00 | --- | 2337 | 0.96 | 172 |
| 0837 | 0.20 | 217 | | | |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 5 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
| 0027 | 0.51 | 188 | 1619 | 0.70 | 026 |
| 0120 | 0.87 | --- | 1715 | 0.69 | 015 |
| 0219 | 0.70 | 179 | 1816 | 0.62 | 015 |
| 0311 | 0.53 | 018 | 1928 | 0.44 | 030 |
| 0411 | 0.41 | 020 | 2033 | 0.20 | 352 |
| 0513 | 0.46 | 012 | 2125 | 0.13 | 189 |
| 0627 | 0.05 | --- | 2238 | 0.52 | 221 |
| 0724 | 0.46 | 014 | 2326 | 1.06 | 212 |
| 0820 | 0.22 | 342 | FEB. 14, 1958 | | |
| 0908 | 0.28 | 232 | 0014 | 1.26 | 195 |
| 1010 | 0.07 | 152 | 0112 | 1.07 | 206 |
| 1058 | 0.04 | --- | 0205 | 0.73 | 202 |
| 1159 | 0.15 | 045 | 0255 | 0.50 | 179 |
| 1316 | 0.39 | 052 | 0346 | 0.59 | 149 |
| 1418 | 0.32 | 026 | 0448 | 0.26 | 060 |
| 1516 | 0.56 | 024 | | | |

DEPTH - 10 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 11, 1958 | | | FEB. 11, 1958 | | |
| 1448 | 0.41 | 035 | 2256 | 0.55 | 188 |
| 1538 | 0.50 | 034 | 2338 | 0.39 | 197 |
| 1642 | 0.33 | 018 | FEB. 12, 1958 | | |
| 1737 | 0.04 | --- | 0032 | 0.39 | 152 |
| 1848 | 0.16 | 205 | 0157 | 0.37 | 069 |
| 1958 | 0.45 | 190 | 0332 | 0.33 | 055 |
| 2046 | 0.76 | 192 | 0455 | 0.15 | 010 |
| 2128 | 0.86 | 205 | 0613 | 0.00 | --- |
| 2213 | 0.92 | 172 | 0730 | 0.10 | 189 |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 10 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|--------------------|----------------|----------------|---------------|----------------|----------------|
| FEBRUARY. 12, 1958 | | | FEB. 13, 1958 | | |
| 0835 | 0.23 | 212 | 1026 | 0.30 | 212 |
| 0917 | 0.35 | 206 | 1105 | 0.05 | 172 |
| 0955 | 0.31 | 202 | 1214 | 0.29 | 171 |
| 1033 | 0.35 | 184 | 1327 | 0.20 | 182 |
| 1123 | 0.27 | 246 | 1428 | 0.20 | 332 |
| 1205 | 0.17 | 010 | 1527 | 0.20 | 032 |
| 1331 | 0.63 | 015 | 1629 | 0.22 | 010 |
| 1422 | 0.39 | --- | 1724 | 0.36 | 047 |
| 1431 | 0.49 | --- | 1825 | 0.05 | --- |
| 1555 | 0.54 | 047 | 1837 | 0.31 | 019 |
| 1656 | 0.33 | 032 | 1943 | 0.12 | 032 |
| 1811 | 0.17 | 359 | 2040 | 0.00 | --- |
| 1913 | 0.12 | 022 | 2138 | 0.52 | 212 |
| 2010 | 0.33 | 192 | 2252 | 0.89 | 202 |
| 2057 | 0.40 | 194 | 2336 | 0.85 | 183 |
| 2138 | 0.58 | 198 | FEB. 14, 1958 | | |
| 2218 | 0.50 | 209 | 0025 | 1.41 | 172 |
| 2300 | 0.98 | 172 | 0122 | 0.90 | 187 |
| 2347 | 0.68 | 158 | 0214 | 0.49 | 188 |
| FEB. 13, 1958 | | | 0305 | 0.49 | 151 |
| 0038 | 0.87 | 154 | 0359 | 0.36 | 155 |
| 0130 | 0.63 | --- | 0456 | 0.23 | 072 |
| 0229 | 0.55 | 145 | | | |
| 0321 | 0.29 | 068 | | | |
| 0421 | 0.17 | 002 | | | |
| 0524 | 0.35 | 334 | | | |
| 0637 | 0.16 | 297 | | | |
| 0735 | 0.16 | 260 | | | |
| 0828 | 0.24 | 206 | | | |
| 0922 | 0.31 | 183 | | | |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 20 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 11, 1958 | | | FEB. 12, 1958 | | |
| 1459 | 0.53 | 002 | 2018 | 0.59 | 198 |
| 1549 | 0.45 | 004 | 2106 | 0.69 | 182 |
| 1650 | 0.38 | --- | 2147 | 0.76 | 192 |
| 1748 | 0.00 | --- | 2226 | 0.72 | 211 |
| 1903 | 0.32 | 194 | 2308 | 1.13 | 191 |
| 2008 | 0.72 | 191 | 2355 | 0.88 | 180 |
| 2055 | 0.55 | 205 | FEB. 13, 1958 | | |
| 2137 | 1.24 | 227 | 0049 | 0.64 | 200 |
| 2223 | 0.10 | --- | 0139 | 0.35 | 200 |
| 2305 | 0.53 | 192 | 0239 | 0.34 | 170 |
| 2346 | 0.37 | 178 | 0333 | 0.08 | 082 |
| FEB. 12, 1958 | | | 0432 | 0.11 | 059 |
| 0042 | 0.41 | 152 | 0535 | 0.08 | 205 |
| 0213 | 0.20 | 182 | 0645 | 0.00 | --- |
| 0345 | 0.13 | --- | 0745 | 0.20 | 219 |
| 0511 | 0.04 | --- | 0838 | 0.29 | 220 |
| 0629 | 0.00 | --- | 0936 | 0.62 | 193 |
| 0744 | 0.20 | 202 | 1034 | 0.69 | 187 |
| 0843 | 0.36 | 195 | 1117 | 0.00 | --- |
| 0924 | 0.45 | 202 | 1230 | 0.38 | 179 |
| 1002 | 0.46 | 189 | 1336 | 0.29 | 153 |
| 1042 | 0.05 | --- | 1436 | 0.23 | 268 |
| 1132 | 0.27 | 216 | 1536 | 0.25 | 039 |
| 1218 | 0.08 | 117 | 1638 | 0.22 | 015 |
| 1340 | 0.27 | 314 | 1736 | 0.26 | 354 |
| 1443 | 0.42 | 006 | 1847 | 0.00 | --- |
| 1611 | 0.29 | 252 | 1952 | 0.00 | --- |
| 1706 | 0.39 | 337 | 2049 | 0.00 | --- |
| 1822 | 0.12 | 152 | 2152 | 0.45 | 205 |
| 1924 | 0.34 | 187 | 2302 | 0.78 | 189 |
| | | | 2345 | 0.78 | 226 |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 20 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 14, 1958 | | | FEB. 14, 1958 | | |
| 0037 | 0.71 | 163 | 0314 | 0.22 | 184 |
| 0133 | 0.84 | 186 | 0412 | 0.05 | --- |
| 0225 | 0.35 | 210 | | | |

DEPTH - 30 M.

| FEB. 11, 1958 | | | FEB. 12, 1958 | | |
|---------------|------|-----|---------------|------|-----|
| 1510 | 0.15 | --- | 1050 | 0.00 | --- |
| 1605 | 0.09 | 112 | 1140 | 0.06 | --- |
| 1703 | 0.23 | 032 | 1234 | 0.12 | 160 |
| 1802 | 0.04 | --- | 1350 | 0.06 | 102 |
| 1920 | 0.13 | 175 | 1350 | 0.06 | 102 |
| 2019 | 0.44 | 193 | 1455 | 0.13 | --- |
| 2104 | 0.40 | --- | 1512 | 0.19 | --- |
| 2147 | 1.31 | 222 | 1624 | 0.15 | 247 |
| 2231 | 0.80 | 182 | 1722 | 0.17 | 168 |
| 2313 | 0.80 | 191 | 1837 | 0.00 | --- |
| 355 | 0.84 | 182 | 1940 | 0.00 | --- |
| FEB. 12, 1958 | | | 2027 | 0.08 | 202 |
| 0053 | 0.36 | --- | 2114 | 0.74 | 184 |
| 0027 | 0.74 | --- | 2155 | 0.52 | 183 |
| 0245 | 0.05 | --- | 2234 | 0.12 | 197 |
| 0406 | 0.00 | --- | 2318 | 0.17 | 172 |
| 0527 | 0.10 | 202 | FEB. 13, 1958 | | |
| 0644 | 0.35 | 182 | 0006 | 1.03 | 177 |
| 0759 | 0.39 | 202 | 0100 | 0.82 | 185 |
| 0852 | 0.41 | 193 | 0152 | 0.07 | 222 |
| 0932 | 0.40 | 174 | 0250 | 0.23 | 229 |
| 1010 | 0.32 | 192 | 0343 | 0.15 | 014 |
| | | | 0448 | 0.07 | --- |

CURRENTS IN TOTTEN INLET

47-10.5 N LAT. 122-57.1 W LONG.

DEPTH - 30 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
| 0550 | 0.09 | 132 | 1751 | 0.05 | 002 |
| 0659 | 0.12 | 212 | 1903 | 0.00 | --- |
| 0800 | 0.26 | 142 | 2007 | 0.19 | 182 |
| 0847 | 0.00 | --- | 2058 | 0.07 | --- |
| 0950 | 0.39 | 188 | 2206 | 0.65 | 200 |
| 1042 | 0.59 | 170 | 2311 | 0.43 | 228 |
| 1134 | 0.50 | 174 | 2354 | 1.55 | 216 |
| 1246 | 0.56 | 194 | FEB. 14, 1958 | | |
| 1352 | 0.34 | 175 | 0050 | 1.42 | 189 |
| 1452 | 0.11 | 322 | 0145 | 0.87 | 187 |
| 1550 | 0.25 | 011 | 0235 | 0.89 | 198 |
| 1654 | 0.21 | 342 | 0325 | 0.32 | 185 |
| | | | 0426 | 0.00 | --- |

CURRENTS IN HAMMERSLEY INLET
47-12.1 N LAT. 122-58.5 W LONG.

DEPTH - 0 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 12, 1958 | | | FEB. 13, 1958 | | |
| 1558 | 1.76 | 071 | 0000 | 4.28 | 268 |
| 1601 | 3.12 | 084 | 0020 | 2.99 | 287 |
| 1634 | 1.97 | 132 | 0040 | 2.97 | 256 |
| 1645 | 1.14 | 095 | 0110 | 2.36 | 255 |
| 1655 | 3.05 | 101 | 0140 | 1.88 | 265 |
| 1707 | 3.96 | 087 | 0205 | 1.33 | 252 |
| 1719 | 2.51 | 058 | 0225 | 0.40 | --- |
| 1732 | 2.98 | 118 | 0245 | 0.17 | --- |
| 1745 | 2.53 | --- | 0305 | 0.47 | 092 |
| 1759 | 3.50 | --- | 0325 | 1.07 | 090 |
| 1811 | 2.58 | 088 | 0345 | 1.62 | 104 |
| 1830 | 2.43 | 082 | 0405 | 0.95 | 084 |
| 1905 | 2.04 | EBB | 0425 | 1.58 | 069 |
| 1920 | 2.01 | 092 | 0450 | 1.55 | 080 |
| 1940 | 1.60 | 084 | 0510 | 1.46 | 086 |
| 2005 | 1.07 | --- | 0530 | 1.43 | 090 |
| 2025 | 0.56 | 122 | 0550 | 0.70 | 082 |
| 2040 | 0.04 | --- | 0611 | 1.50 | 092 |
| 2055 | 1.04 | --- | 0631 | 1.08 | 084 |
| 2110 | 2.18 | 260 | 0648 | 1.38 | 087 |
| 2130 | 2.63 | --- | 0707 | 1.19 | 075 |
| 2150 | 2.30 | 266 | 0722 | 1.03 | 072 |
| 2200 | 3.42 | 269 | 0738 | 0.94 | --- |
| 2220 | 4.18 | 256 | 0802 | 0.47 | 087 |
| 2240 | 3.52 | --- | 0827 | 0.56 | 142 |
| 2300 | 4.25 | 293 | 0841 | 0.21 | 272 |
| 2320 | 3.83 | 271 | | | |
| 2340 | 4.03 | 271 | | | |

CURRENTS IN HAMMERSLEY INLET
47-12.1 N LAT. 122-58.5 W LONG.

DEPTH - 0 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
| 0858 | 0.07 | --- | 1342 | 2.03 | 102 |
| 0916 | 1.17 | 274 | 1402 | 0.88 | 085 |
| 0945 | 0.98 | 292 | 1435 | 1.76 | 082 |
| 1005 | 1.17 | 285 | 1450 | 1.66 | 075 |
| 1017 | 2.41 | 258 | 1510 | 1.78 | 070 |
| 1045 | 1.67 | 268 | 1525 | 1.79 | 092 |
| 1100 | 1.47 | 270 | 1536 | 1.97 | 093 |
| 1115 | 1.62 | 267 | 1549 | 2.07 | 085 |
| 1132 | 1.40 | 262 | 1609 | 2.09 | 101 |
| 1145 | 2.01 | 158 | 1626 | 2.37 | 103 |
| 1200 | 1.21 | 252 | 1641 | 2.40 | 118 |
| 1230 | 0.92 | 035 | 1656 | 2.39 | 099 |
| 1246 | 0.84 | --- | 1710 | 2.52 | 112 |

DEPTH - 2 M.

| FEB. 12, 1958 | | |
|---------------|------|-----|
| 1305 | 0.37 | 262 |
| 1319 | 0.55 | 242 |

CURRENTS IN HAMMERSLEY INLET
47-12.1 N LAT. 122-58.5 W LONG.

DEPTH - 3 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 12, 1958 | | | FEB. 13, 1958 | | |
| 1639 | 2.46 | --- | 0846 | 0.76 | 267 |
| 1650 | 2.35 | 082 | 0904 | 0.62 | 279 |
| 1703 | 2.47 | 042 | 0925 | 1.24 | 290 |
| 1711 | 2.44 | 082 | 0948 | 1.48 | 276 |
| 1726 | 2.21 | 337 | 1008 | 1.65 | 267 |
| FEB. 13, 1958 | | | 1021 | 0.97 | 250 |
| 0525 | 1.36 | 078 | 1050 | 1.58 | 272 |
| 0545 | 0.38 | 082 | 1107 | 1.44 | 272 |
| 0608 | 1.24 | 080 | 1120 | 2.27 | 262 |
| 0628 | 1.46 | 084 | 1135 | 1.41 | 270 |
| 0644 | 1.21 | 077 | 1150 | 1.30 | 277 |
| 0703 | 1.26 | 082 | 1204 | 1.47 | 286 |
| 0719 | 1.11 | 090 | 1234 | 1.03 | 262 |
| 0734 | 0.94 | 087 | 1250 | 0.64 | 265 |
| 0755 | 1.10 | --- | 1629 | 2.16 | 081 |
| 0759 | 0.51 | 057 | 1644 | 2.17 | 083 |
| 0815 | 0.83 | 085 | 1658 | 2.29 | 087 |
| 0831 | 0.63 | 137 | 1713 | 2.30 | 085 |

DEPTH - 4 M.

| FEB. 12, 1958 | | | FEB. 12, 1958 | | |
|---------------|------|-----|---------------|------|-----|
| 1614 | 3.35 | --- | 1912 | 1.29 | 075 |
| 1618 | 1.62 | 166 | 1928 | 1.36 | 092 |
| 1738 | 2.04 | --- | 1950 | 0.96 | 072 |
| 1749 | 2.45 | 100 | 2010 | 1.20 | 078 |
| 1806 | 2.04 | --- | 2030 | 0.48 | 297 |
| 1822 | 2.09 | 077 | 2048 | 1.33 | 272 |
| 1840 | 1.76 | 044 | 2100 | 1.54 | --- |

CURRENTS IN HAMMERSLEY INLET
47-12.1 N LAT. 122-58.5 W LONG.

DEPTH - 4 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 12, 1958 | | | FEB. 13, 1958 | | |
| 2120 | 1.97 | 272 | 0315 | 0.66 | 029 |
| 2140 | 2.60 | 262 | 0335 | 1.14 | 082 |
| 2210 | 2.67 | 264 | 0355 | 2.03 | 100 |
| 2230 | 3.08 | --- | 0415 | 1.36 | 282 |
| 2250 | 2.92 | 282 | 1039 | 0.79 | 292 |
| 2310 | 3.71 | 260 | 1323 | 0.67 | 322 |
| 2330 | 4.79 | 257 | 1350 | 0.80 | 062 |
| 2350 | 3.85 | 258 | 1410 | 1.99 | 067 |
| FEB. 13, 1958 | | | 1443 | 1.93 | 077 |
| 0010 | 5.54 | 256 | 1458 | 1.63 | 076 |
| 0030 | 2.96 | 251 | 1515 | 1.64 | 076 |
| 0100 | 1.59 | 272 | 1528 | 1.55 | 084 |
| 0130 | 1.96 | 252 | 1540 | 1.69 | 100 |
| 0150 | 2.47 | 257 | 1553 | 1.76 | 086 |
| 0215 | 0.29 | 265 | 1612 | 1.95 | 079 |
| 0235 | 0.69 | 265 | 1612 | 1.95 | 079 |
| 0255 | 0.30 | 022 | | | |

DEPTH - 6 M.

| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
|---------------|------|-----|---------------|------|-----|
| 0440 | 1.14 | 074 | 0624 | 1.06 | 082 |
| 0500 | 1.20 | 072 | 0640 | 0.90 | 087 |
| 0520 | 1.19 | 069 | 0700 | 0.72 | 092 |
| 0540 | 1.06 | 082 | 0715 | 1.15 | 088 |
| 0600 | 2.24 | 084 | 0730 | 0.82 | 105 |

CURRENTS IN HAMMERSLEY INLET
47-12.1 N LAT. 122-58.5 W LONG.

DEPTH - 6 M.

| TIME (+8) | SPD. (KTS.) | DIR. (TRUE) | TIME (+8) | SPD. (KTS.) | DIR. (TRUE) |
|---------------|----------------|----------------|---------------|----------------|----------------|
| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
| 0750 | 0.83 | 102 | 1126 | 1.28 | --- |
| 0852 | 0.97 | 257 | 1214 | 0.99 | 270 |
| 0909 | 0.86 | 282 | 1241 | 0.58 | 272 |
| 0936 | 0.91 | 272 | 1255 | 0.37 | --- |
| 0959 | 0.69 | --- | 1259 | 0.54 | 247 |
| 0822 | 0.40 | 352 | 1138 | 1.30 | 282 |
| 0837 | 0.61 | 232 | 1153 | 1.12 | 290 |
| 1014 | 1.42 | 264 | 1614 | 1.70 | 086 |
| 1025 | 1.40 | 282 | 1633 | 1.64 | 087 |
| 1054 | 1.46 | 262 | 1647 | 1.71 | 082 |
| 1112 | 1.29 | 279 | 1701 | 1.64 | 094 |

DEPTH - 7 M.

| FEB. 13, 1958 | | | FEB. 13, 1958 | | |
|---------------|------|-----|---------------|------|-----|
| 1142 | 0.94 | 269 | 1507 | 0.05 | 079 |
| 1314 | 0.49 | 242 | 1518 | 1.13 | 089 |
| 1329 | 0.70 | --- | 1531 | 1.02 | 076 |
| 1356 | 0.58 | 095 | 1543 | 1.28 | 080 |
| 1415 | 0.73 | 082 | 1556 | 1.16 | --- |
| 1447 | 0.81 | 089 | | | |

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