

NOAA Data Report ERL PMEL-2



LOW MOLECULAR WEIGHT HYDROCARBON CONCENTRATIONS ($C_1 - C_4$),
ALASKAN CONTINENTAL SHELF, 1975 - 1979

Charles N. Katz
Joel D. Cline

Pacific Marine Environmental Laboratory
Seattle, Washington
December 1980

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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION /

Environmental
Research Laboratories

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**UNITED STATES
DEPARTMENT OF COMMERCE**
Philip M. Klutznick, Secretary

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
Richard A. Frank, Administrator

Environmental Research
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| H.3 RP-4-DI-79A-II: 07 May - 20 May 1979 | |
| H.4 RP-4-DI-76B-IV: 08 Sep. - 24 Sep. 1976 | |

1. INTRODUCTION

Dissolved low molecular weight (LMW) aliphatic hydrocarbons, $C_1 - C_4$, were measured on the Alaskan Continental shelf as a part of the Outer Continental Shelf Environment Assessment Program (OCSEAP) sponsored by the Bureau of Land Management (BLM) and administered by the National Oceanic and Atmospheric Administration (NOAA). The purpose of the program was to establish the spatial distributions and temporal (seasonal and diel) variations in the dissolved gaseous hydrocarbon fraction composed of methane, ethane, ethene, propane, propene, iso- and n-butane. These data were collected in order to establish baseline levels of naturally occurring hydrocarbons in the offshore lease areas prior to development of fossil fuel reserves. The ease with which they are measured and their relative abundance in oil and natural gas have made these compounds attractive as tracers of petroleum introduced to the marine environment as a consequence of offshore oil and natural gas exploration, development, production, or transportation.

This data report summarizes light hydrocarbon concentrations made during 13 cruises from 1975 to 1979. The cruise numbers, geographic locations, inclusive dates, and number of samples analyzed for each cruise are shown chronologically in table 1. Spatial and temporal hydrocarbon distributions were obtained in seven geographical areas of the Alaskan shelf. These areas include the northeast Gulf of Alaska, Cook Inlet, Kodiak Shelf, Shelikof Strait, southeast Bering Sea, Norton Sound, and Chukchi Sea as shown in figure 1.

Vertical profiles at each station usually included samples taken at the surface and within 5 m of the bottom. The number of samples taken at intermediate depths depended on the depth of the water column. Diel variability in hydrocarbon concentrations was determined at one or more 24 to 48 hour time series stations during most visits. Time series stations are listed in table 2.

Table 1. Summary of Cruises in Chronological Order

| <u>Cruise Number</u> | <u>Geographic Locations</u> | <u>Inclusive Dates</u> | <u>Number of Samples</u> |
|----------------------|---|------------------------|--------------------------|
| RP-4-DI-75B-III | Southeast Bering Sea | 12 Sep. - 03 Oct. 1975 | 299 |
| RP-4-DI-75C-I | Northeast Gulf of Alaska | 21 Oct. - 09 Nov. 1975 | 365 |
| RP-4-DI-76A-III | Cook Inlet, Northeast Gulf of Alaska | 04 Apr. - 13 Apr. 1976 | 25,8 |
| RP-4-D-76A-IV | Northeast Gulf of Alaska | 13 Apr. - 30 Apr. 1976 | 310 |
| RP-4-DI-76B-I | Northeast Gulf of Alaska | 19 Jul. - 31 Jul. 1976 | 264 |
| RP-4-MW-76B-VIII | Southeast Bering Sea | 25 Jun. - 08 Jul. 1976 | 321 |
| RP-4-DI-76B-IV | Norton Sound, Chukchi Sea | 08 Sep. - 24 Sep. 1976 | 175,162 |
| RP-4-DI-77A-IV | Cook Inlet, Shelikof Strait, Northeast Gulf of Alaska | 05 Apr. - 22 Apr. 1977 | 81,16,86 |
| ACONA 245-77 | Cook Inlet, Shelikof Strait, Kodiak Shelf | 28 Jun. - 16 Jul. 1977 | 256,101,89 |
| RP-4-DI-78A-III | Cook Inlet | 07 May - 17 May 1978 | 174 |
| RP-4-DI-78B-II | Cook Inlet | 28 Aug. - 06 Sep. 1978 | 118 |
| RP-4-DI-79A-II | Cook Inlet, Shelikof Strait | 07 May - 20 May 1979 | 70,35 |
| RP-4-DI-79A-VI | Norton Sound | 02 Jul. - 18 Jul. 1979 | <u>203</u> |
| | | Total | 3158 |

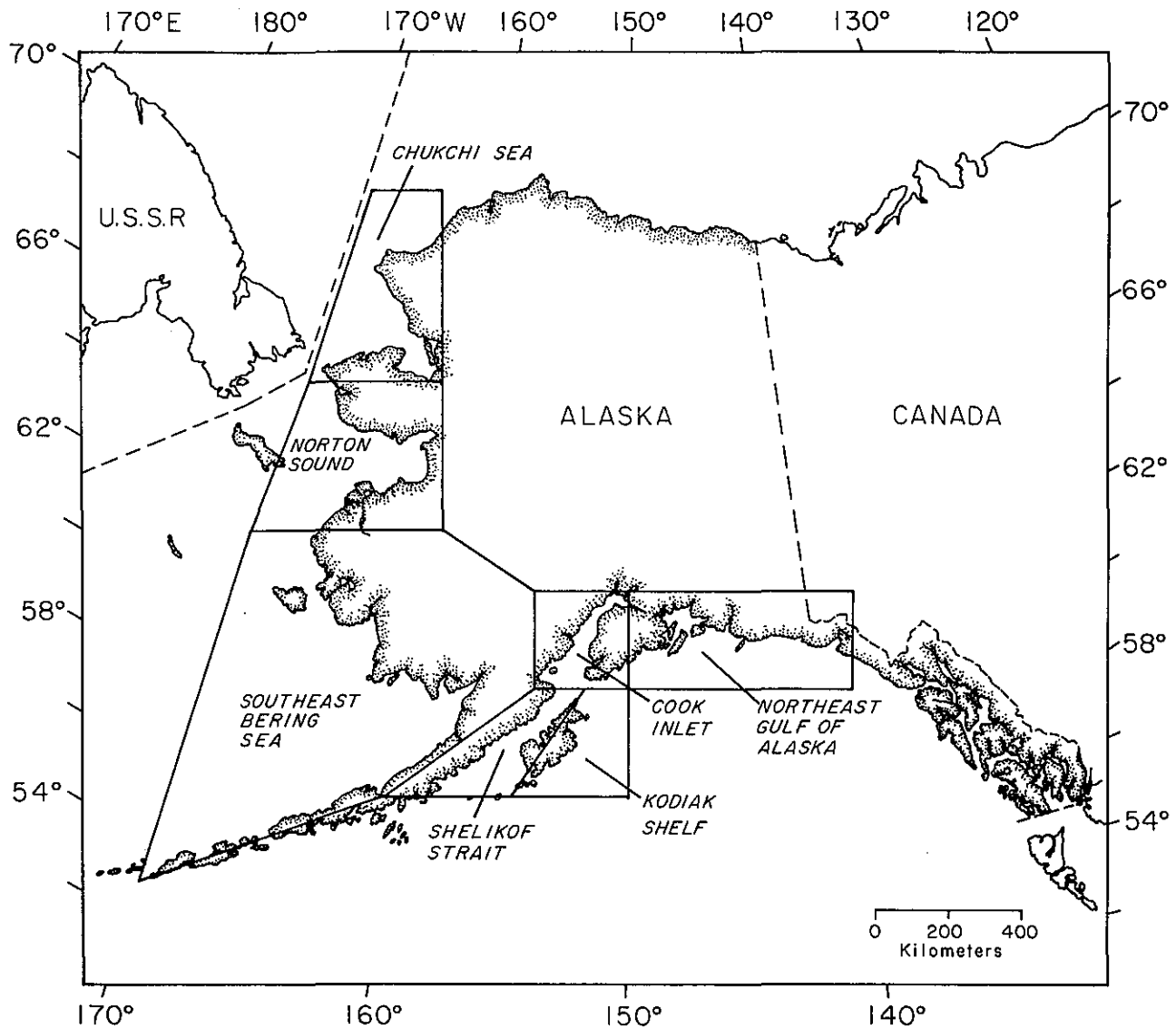


Figure 1. Geographical subdivisions of the Alaskan shelf in which dissolved LMW hydrocarbon concentrations were measured between 1975 and 1979.

Table 2. Time series stations occupied during this study. Numbers or letters in parentheses indicate the sequence of casts taken at a particular station (e.g., PM46(A-I) indicates that PM46A, PM46B, PM46C . . . PM46I are the sequential casts taken at station PM46).

| <u>Location</u> | <u>Cruise Number</u> | <u>Time Series Station</u> |
|--------------------------|----------------------|-----------------------------------|
| Northeast Gulf of Alaska | RP-4-DI-75C-I | PM46(A-I), PM62(A-I) |
| | RP-4-DI-76A-IV | P15(01-31) |
| Cook Inlet | RP-4-DI-76A-III | PM13(A-F) |
| | RP-4-DI-77A-IV | PM11(A-H) |
| | ACONA 245-77 | PM4T(A-E), P28B(1-5) |
| | RP-4-DI-78A-III | CB07(A-M), CB09(A-G) CB10(A-F) |
| | RP-4-DI-78B-II | CB10(A-M) |
| Southeast Bering Sea | RP-4-DI-75B-III | PM46(A-G), EB37(A-J) |
| Norton Sound | RP-4-DI-76B-IV | N15T(A-M) |
| | RP-4-DI-79A-VI | N17(A-F), N21B(1-9) |
| Chukchi Sea | RP-4-DI-76B-IV | C10T(A-N) |

2. METHODS

2.1 Sampling

Water samples were collected using standard 5- or 10-ℓ Niskin[®] bottles mounted with a Plessey Environmental Systems Model 9040 CTD on a General Oceanics Rosette sampler. The bottles were rinsed by raising and lowering them routinely from 20 to 10 m.

Once on deck, water was transferred to clean 1-ℓ glass-stoppered bottles such that air bubbles were not trapped. Approximately 200 mg of sodium azide (NaN_3) was added to each bottle before it was stoppered, shaken to disperse the NaN_3 , and stored in the dark at approximately 5°C. The NaN_3 was added to inhibit biological activity in the sample.

Although storage time varied, samples were never stored for more than a few days. It was determined that storage in the dark for periods of a few days resulted in no significant changes in hydrocarbon composition (Katz, 1980).

2.2 Low Molecular Weight Hydrocarbon Analysis

2.2.1 Preconcentration

Analysis of LMW aliphatics, using a procedure adopted from that proposed by Swinnerton and Linnenbom (1967), was accomplished routinely in both the field and laboratory. A detailed discussion of the methods can be found in Katz (1980). The dissolved gases removed from solution by helium stripping were passed through Ascarite[®], Anhydrone[®], and Tenax G.C.[®] traps to remove carbon dioxide, water vapor, and heavier hydrocarbons respectively. The LMW hydrocarbons were subsequently concentrated on an Activated Alumina[®] trap at -196°C. The trap was then warmed to 100°C and the gases backflushed directly into a gas chromatograph. Quantitative removal of the gases from solution was accomplished in approximately ten minutes with a helium flow rate of 150 mL min⁻¹.

2.2.2 Gas Chromatography

Separation and detection of components were carried out on a Hewlett-Packard 5710A gas chromatograph equipped with flame ionization detectors (FID). Separation was originally effected on a Porapak Q[®], 60- to 80-mesh column (1.2 m x 0.48 cm), in series with an activated alumina column (0.3 m x 0.48 cm) impregnated with silver nitrate (1% by weight). This column configuration (charge transfer complexing) allowed resolution of the alkenes from their corresponding alkanes (e.g., ethene from ethane). However, due to its relatively low decomposition temperature (250°C) and relatively high-bleed characteristics at lower temperatures, the Porapak Q[®] column was replaced with an activated alumina, 60- to 80-mesh column (1.8 m x 0.48 cm) prior to 1978 field work. Chromatographic separation of all components was effected in approximately eight minutes with a column flow rate of 50 mL min⁻¹ and a temperature-programming sequence as follows: two-minute hold at 100°C followed by an 8°C min⁻¹ temperature rate increase to 170°C.

2.2.3 Quantitation

Identification and quantitation of components were obtained by comparing retention times and relative responses of standard hydrocarbon gas mixtures with those of the sample. Standard hydrocarbon mixtures prepared in helium by Matheson Gas Products were reported to ±10% (relative standard deviation) accuracy. One of the standards was also calibrated by the National Bureau of Standards (NBS) and was used to calibrate the other standards. Based on the NBS and Matheson intercalibration, the accuracy of measurement is ≤10% for each component. The total sampling and analytical precision was determined to be ≤8% for all components. The detection limit of this method based on a signal-to-noise ratio of 2 is 0.05 nℓ ℓ⁻¹ for components other than methane. The detection limit for methane is near 1 nℓ ℓ⁻¹ because of baseline noise and a lower detector response.

2.3 Salinity-Temperature Data

Conductivity and temperature versus depth data were collected using Plessey model 9040 systems with model 8400 data loggers. These systems sampled five times per second for values of temperature, conductivity, and pressure. Data were recorded during the down-cast using a lowering rate of 30 m min^{-1} . Nansen bottle samples were taken on every other cast to provide temperature and salinity calibration. The precision of the salinity and temperature data are $\pm 0.01 \text{ g kg}^{-1}$ and $\pm 0.01^\circ\text{C}$ respectively.

3. GENERAL RESULTS

In general, LMW hydrocarbons showed spatial and seasonal variability. Ranges in concentrations for all geographic areas on the Alaskan shelf were: 10 to $4085 \text{ n}\ell \ell^{-1}$ methane; trace (below detection limit) to $21.0 \text{ n}\ell \ell^{-1}$ ethane, trace to $6.9 \text{ n}\ell \ell^{-1}$ ethane; trace to $11 \text{ n}\ell \ell^{-1}$ propane; and trace to $9.5 \text{ n}\ell \ell^{-1}$ propene. Butane concentrations were typically at or near the detection limit of $0.05 \text{ n}\ell \ell^{-1}$. The highest concentrations of methane, ethane, and propane measured over the Alaskan shelf were observed in upper Cook Inlet (Katz, 1980). Summer concentrations increased over spring and fall values. The concentration increases were more pronounced for methane, ethene, and propene which is related to their biological and/or photochemical origin.

4. ORGANIZATION AND EXPLANATION OF DATA TABLES

The data presented in Appendices A-G are organized in a hierarchy of geographic location, cruise (chronological order), station, and depth distribution. Each geographical location is presented in a separate appendix. Within each appendix cruises are headed by cruise number and inclusive dates (local) of the cruise. Station data include: station number, latitude and longitude to the nearest tenth of a degree, local date and time of sampling, Greenwich mean-time zone, and depth to the bottom in meters. Depth information includes: depth of sample in

meters; methane, ethane, propane, and propene concentrations in nanoliters per liter STP (values below the detection limit of $0.05 \text{ n}\ell \ell^{-1}$ are tabulated as "trace" (T)); water temperature in degrees centigrade; salinity in grams per kilogram; and the methane solubility ratio C/C^* ¹. The methane solubility ratio, C/C^* , is the ratio of the observed methane concentration (C) to the equilibrium methane concentration (C^*) calculated from equations given by Yamamoto et al. (1976) and from the atmospheric methane mixing ratio of 1.4 parts per million by volume (Ehhalt, 1974).

During the early stages of the program, chromatographic separation of ethane from ethene and propane from propene was not possible. This occurred during cruise RP-4-DI-75B-III (Appendix E.1) and for Station PM004, Cruise RP-4-DI-76A-III (Appendix B.1). In these cases, the tabulated values are the sums: ethane + ethene; and propane + propene.

Butane concentrations measured in most areas were at or below the analytical detection limit of $0.05 \text{ n}\ell \ell^{-1}$. Butane concentrations significantly above these levels were measured only in upper Cook Inlet and in the vicinity of the Norton Sound gas seep (Cline and Holmes, 1977). The butane data for these areas are tabulated (nanoliter per liter STP) in Appendix H.

¹ A star (*) indicates no data.

5. ACKNOWLEDGMENTS

The authors would like to thank Anthony Young for the design and construction of the LMW hydrocarbon analysis equipment. Those participating in the sample analyses included S. Hamilton, L. Keister, M. Lamb, L. Ohler, J. Quan, and A. Young. We would like to thank Mark Moehring for help in developing the computer programs for data processing. A special thanks goes to the captains and crews of the NOAA ship DISCOVERER, R/V MOANA WAVE, and R/V ACONA for their assistance in the field program.

6. REFERENCES

- Cline, J. D., and M. L. Holmes (1977). Submarine seepage of natural gas in Norton Sound, Alaska. *Science* 198: 1149-1153.
- Ehhalt, D. H. (1974). The atmospheric cycle of methane. *Tellus* 26: 58-70.
- Katz, C. N. (1980). Processes affecting the distribution of low molecular weight aliphatic hydrocarbons in Cook Inlet, Alaska. M.S. Thesis, Univ. of Washington.
- Swinerton, J. W., and V. J. Linnenbom (1967). Determination of the C₁ to C₄ hydrocarbons in seawater by gas chromatography. *J. Gas Chromatogr.* 5: 570-573.
- Yamamoto, S., J. B. Alcauskas, and T. E. Crozier (1976). Solubility of methane in distilled water and seawater. *J. Chem. Eng. Data* 21: 78-80.

APPENDIX A

Northeast Gulf of Alaska

| | | |
|-----|-----------------|------------------------|
| A.1 | RP-4-DI-75C-I | 21 Oct. - 09 Nov. 1975 |
| A.2 | RP-4-DI-76A-III | 04 Apr. - 13 Apr. 1976 |
| A.3 | RP-4-DI-76A-IV | 13 Apr. - 30 Apr. 1976 |
| A.4 | RP-4-DI-76B-I | 19 Jul. - 31 Jul. 1976 |
| A.5 | RP-4-DI-77A-IV | 05 Apr. - 22 Apr. 1977 |

CRUISE NUMBER
RP-4-D1-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM001 59 50.8N 149 30.3W 22 OCT 1100 +10 252

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 155.6 0.58 0.88 0.16 * 8.38 28.11 2.9
10 171.7 0.80 0.91 0.16 * 8.49 28.19 3.2
40 242.8 0.85 1.00 0.29 * 9.47 30.47 4.8
60 249.1 0.71 0.84 0.20 * 9.38 31.23 4.9
247 573.6 0.60 0.89 0.22 * 4.92 33.12 10.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM002 59 23.9N 149 7.1W 23 OCT 1130 +10 205

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 144.0 0.35 0.57 0.09 * 8.85 31.27 2.8
12 166.3 0.81 0.73 0.19 * 8.78 31.69 3.2
41 210.8 0.35 0.88 0.14 * 8.61 31.85 4.1
80 285.5 0.47 1.11 0.12 T 5.98 32.44 5.2
202 477.7 0.76 0.92 0.28 * 5.17 32.97 8.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM003 58 54.4N 148 35.2W 23 OCT 2000 +10 237

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 110.4 0.17 0.47 0.10 * 8.49 32.07 2.1
11 116.5 0.35 0.62 0.11 * 8.49 32.07 2.2
23 112.7 0.18 0.42 0.11 * 8.49 32.07 2.2
44 115.1 0.39 0.84 0.61 * 8.58 32.29 2.2
80 343.9 0.56 1.12 0.49 T 5.96 32.47 6.3
232 170.4 0.67 1.32 0.12 * 5.15 33.47 3.0

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 58 24.0N | 148 4.5W | 24 OCT | 0800 | +10 | 1650 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 92.4 | 0.24 | 0.60 | 0.09 | * | 8.47 | 32.15 | 1.8 |
| 10 | 93.7 | 0.20 | 0.50 | 0.30 | * | 8.45 | 32.16 | 1.8 |
| 30 | 101.7 | 0.18 | 0.53 | 0.11 | * | 8.47 | 32.16 | 1.9 |
| 53 | 250.7 | 0.96 | 1.48 | 0.21 | * | 7.22 | 31.68 | 4.7 |
| 100 | 224.5 | 0.32 | 0.76 | 0.28 | * | 5.35 | 32.69 | 4.0 |
| 198 | 147.2 | 0.33 | 0.55 | 0.16 | * | 5.57 | 33.75 | 2.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM005 | 58 36.1N | 145 13.4W | 31 OCT | 0220 | +10 | 4400 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 72.2 | 0.18 | 0.51 | 0.08 | 0.14 | 7.75 | 32.42 | 1.3 |
| 12 | 72.4 | 0.15 | 0.51 | 0.09 | 0.14 | 7.77 | 32.41 | 1.3 |
| 22 | 77.8 | 0.23 | 0.50 | 0.11 | T | 7.79 | 32.43 | 1.5 |
| 51 | 90.8 | 0.29 | 0.89 | 0.13 | * | 5.03 | 32.78 | 1.6 |
| 102 | 90.4 | 0.28 | 0.58 | 0.14 | 0.12 | 4.48 | 33.41 | 1.6 |
| 151 | 79.2 | 0.20 | 0.49 | 0.11 | T | 4.53 | 33.81 | 1.4 |
| 201 | 80.6 | 0.25 | 0.42 | 0.14 | * | 4.14 | 33.85 | 1.4 |

CRUISE NUMBER
RP-4-01-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM006 | 58 13.1N | 141 55.3W | 08 OCT | 0600 | +10 | 3500 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 67.9 | 0.14 | 0.51 | 0.08 | 0.13 | 6.86 | 32.46 | 1.2 |
| 21 | 65.6 | 0.13 | 0.50 | 0.06 | 0.12 | 6.84 | 32.44 | 1.2 |
| 48 | 65.8 | 0.16 | 1.04 | 0.16 | 0.12 | 4.82 | 32.74 | 1.1 |
| 100 | 69.8 | 0.24 | 0.72 | 0.13 | 0.18 | 3.81 | 33.11 | 1.2 |
| 216 | 72.2 | 0.26 | 0.56 | 0.13 | T | 4.07 | 33.81 | 1.2 |
| 408 | 38.4 | 0.11 | 0.26 | 0.10 | T | 3.80 | 34.04 | 0.6 |
| 592 | 151.7 | 0.09 | 0.29 | 0.11 | * | 3.55 | 41.87 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM006 | 58 13.1N | 141 55.3W | 08 OCT | 0600 | +10 | 3500 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 800 | 14.1 | 0.09 | 0.22 | 0.08 | * | * | * | * |
| 1102 | 8.5 | 0.08 | 0.22 | 0.10 | * | 2.90 | 34.31 | 0.1 |
| 1504 | 13.0 | 0.06 | 0.16 | 0.08 | * | 2.29 | 34.48 | 0.2 |
| 2000 | 9.2 | 0.06 | 0.19 | 0.05 | * | * | * | * |
| 2500 | 11.3 | 0.14 | 0.18 | 0.06 | * | * | * | * |
| 3000 | 6.3 | 0.11 | 0.11 | T | * | * | * | * |
| 3332 | 5.9 | 0.05 | 0.17 | 0.05 | * | * | * | * |

CRUISE NUMBER
RP-4-D1-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM007 58 45.7N 141 13.0W 08 NOV 0225 +10 2800

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 77.5 | 0.30 | 0.63 | 0.15 | 0.16 | 7.92 | 32.20 | 1.4 |
| 11 | 73.1 | 0.14 | 0.55 | 0.12 | * | 7.92 | 32.22 | 1.4 |
| 21 | 74.1 | 0.15 | 0.60 | T | T | 7.92 | 32.22 | 1.4 |
| 51 | 77.0 | 0.16 | 0.61 | 0.09 | 0.05 | 7.75 | 32.41 | 1.4 |
| 101 | 95.1 | 0.26 | 0.88 | 0.21 | 0.21 | 5.71 | 32.99 | 1.7 |
| 201 | 268.9 | 0.42 | 0.62 | 0.16 | T | 5.43 | 33.79 | 4.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM008 59 18.3N 140 33.2W 07 NOV 1805 +10 137

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 0 | 96.1 | 0.13 | 0.59 | 0.11 | 0.21 | 7.97 | 31.64 | 1.8 |
| 10 | 105.4 | 0.38 | 0.50 | 0.12 | 0.14 | 7.99 | 31.64 | 2.0 |
| 18 | 99.6 | 0.15 | 0.56 | 0.10 | 0.09 | 8.01 | 31.67 | 1.9 |
| 48 | 80.2 | 0.16 | 0.59 | 0.12 | 0.18 | 7.92 | 31.74 | 1.5 |
| 88 | 213.5 | 0.30 | 1.29 | 0.22 | 0.32 | 6.88 | 32.58 | 4.0 |
| 125 | 222.3 | 0.46 | 1.05 | 0.17 | 0.20 | 5.55 | 32.86 | 9.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM009 59 34.2N 140 6.2W 07 NOV 1205 +10 21

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 108.7 | 0.14 | 0.56 | 0.09 | 0.15 | 7.70 | 31.47 | 2.0 |
| 1 | 103.4 | 0.15 | 0.86 | 0.12 | 0.17 | 7.70 | 31.47 | 1.9 |
| 10 | 107.5 | 0.10 | 0.55 | 0.08 | 0.13 | 7.70 | 31.55 | 2.0 |
| 17 | 108.0 | 0.12 | 0.53 | 0.09 | 0.16 | 7.75 | 31.52 | 2.0 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM010 59 43.7N 141 31.2W 07 NOV 0530 +10 62

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 116.6 | 0.17 | 0.78 | 0.12 | 0.20 | 7.63 | 31.26 | 2.2 |
| 11 | 108.5 | 0.13 | 0.55 | 0.08 | 0.13 | 7.99 | 31.42 | 2.0 |
| 22 | 103.4 | 0.20 | 0.61 | 0.10 | 0.18 | 8.02 | 31.46 | 1.9 |
| 41 | 100.4 | 0.15 | 0.69 | 0.12 | 0.20 | 8.08 | 31.49 | 1.9 |
| 54 | 101.2 | 0.16 | 0.57 | 0.10 | 0.17 | 8.28 | 31.60 | 1.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM011 59 37.8N 141 37.0W 09 NOV 0135 +10 113

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 2 | 98.9 | 0.16 | 0.79 | 0.08 | 0.16 | 8.11 | 31.56 | 1.9 |
| 12 | 98.8 | 0.13 | 0.56 | 0.08 | 0.11 | 8.11 | 31.53 | 1.9 |
| 22 | 99.5 | 0.11 | 0.59 | 0.08 | 0.17 | 8.15 | 31.53 | 1.9 |
| 53 | 114.7 | 0.12 | 0.66 | 0.12 | T | 8.33 | 31.79 | 2.2 |
| 109 | 203.3 | 0.25 | 1.07 | 0.18 | 0.21 | 6.72 | 32.47 | 4.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM012 59 26.8N 141 48.3W 06 NOV 2130 +10 181

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 2 | 116.3 | 0.35 | 0.98 | 0.14 | 0.18 | 7.92 | 32.06 | 2.2 |
| 11 | 112.8 | 0.28 | 0.79 | 0.10 | 0.18 | 7.72 | 32.06 | 2.1 |
| 22 | 176.9 | 0.36 | 1.25 | 0.14 | 0.25 | 7.88 | 32.79 | 3.4 |
| 51 | 295.7 | 0.46 | 1.40 | 0.23 | 0.30 | 7.04 | 32.35 | 5.5 |
| 101 | 117.3 | * | * | 0.16 | 0.17 | 5.70 | 32.75 | 2.1 |
| 175 | 222.8 | 0.22 | 0.63 | 0.15 | T | 5.44 | 33.53 | 4.0 |

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM013 59 8.6N 142 3.7W 06 NOV 1745 +10 1445

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 83.9 * * 0.12 0.16 7.90 32.11 1.6
11 80.5 0.15 0.59 0.09 0.07 7.92 32.13 1.5
22 73.3 0.11 0.52 0.07 0.11 7.97 32.21 1.4
51 74.9 0.16 0.66 0.08 0.14 7.63 32.31 1.4
101 141.0 0.28 0.98 0.17 0.16 5.78 32.75 2.5
200 187.5 0.35 0.74 0.15 * 5.50 33.60 3.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM014 59 17.1N 142 58.8W 04 NOV 0500 +10 2600

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 77.6 0.44 0.68 0.12 T 7.75 32.38 1.4
11 80.2 0.12 0.54 0.09 0.13 7.75 32.35 1.5
22 41.1 0.14 0.56 0.07 0.09 7.74 32.36 0.7
50 90.0 0.18 0.94 0.15 0.20 6.63 32.34 1.6
102 55.5 0.55 0.98 0.15 0.19 4.51 31.08 1.5
201 118.8 0.29 0.52 0.14 * 5.14 33.80 2.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM015 59 35.7N 142 51.7W 04 NOV 2250 +10 550

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 113.0 0.16 0.75 0.22 0.17 7.65 32.03 2.1
21 * * * T T 7.68 32.07 *
51 113.2 0.40 0.92 0.17 0.08 6.88 32.55 2.1
101 212.8 0.50 1.04 0.18 0.11 5.34 32.83 3.8
196 262.1 0.40 0.73 0.15 * 5.25 33.52 4.7

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM016 | 59 55.0N | 142 40.6W | 04 NOV | 1505 | +10 | 137 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 153.1 | 0.42 | 0.87 | 0.15 | T | 8.08 | 31.58 | 2.9 |
| 10 | 160.6 | 0.49 | 0.73 | 0.12 | 0.05 | 8.01 | 31.73 | 3.0 |
| 19 | 461.4 | 0.16 | 0.69 | 0.12 | 0.17 | 8.40 | 32.02 | 9.0 |
| 32 | 249.7 | 0.49 | 1.06 | 0.10 | 0.05 | 8.38 | 31.99 | 4.8 |
| 49 | 127.3 | * | * | 0.16 | * | 8.27 | 32.03 | 2.4 |
| 126 | 332.2 | 0.57 | 1.38 | 0.17 | 0.08 | 5.90 | 32.57 | 0.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM017 | 59 54.3N | 143 53.1W | 03 NOV | 0310 | +10 | 79 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 377.8 | 0.39 | T | 0.29 | T | 5.61 | 29.07 | 6.7 |
| 11 | 185.2 | 0.65 | 0.66 | 0.20 | T | 7.18 | 30.68 | 3.4 |
| 21 | 220.4 | 0.16 | 0.53 | 0.15 | T | 8.74 | 31.45 | 4.3 |
| 51 | 214.8 | 0.62 | 1.08 | 0.11 | T | 9.08 | 31.72 | 4.2 |
| 72 | 265.7 | 0.16 | 0.67 | 0.11 | T | 8.94 | 31.86 | 5.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM018 | 59 33.1N | 143 55.6W | 02 NOV | 2115 | +10 | 1200 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 150.6 | 0.10 | 0.52 | T | * | 7.99 | 31.94 | 2.9 |
| 10 | 157.9 | 0.06 | 0.36 | * | * | 8.01 | 31.93 | 3.0 |
| 31 | 204.7 | 0.88 | 1.02 | T | T | 8.35 | 32.03 | 3.9 |
| 49 | 217.0 | 0.78 | 1.35 | T | T | 8.08 | 32.18 | 4.2 |
| 98 | 264.0 | 0.83 | 0.96 | T | * | 5.16 | 32.67 | 4.7 |

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM019 59 14.7N 143 53.5W 02 NOV 1630 +10 4300

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 115.8 0.27 0.68 0.15 T 7.99 32.16 2.2
11 111.8 0.11 0.50 * * 7.88 32.20 2.1
30 103.5 0.14 0.48 * * 7.61 32.28 1.9
49 243.8 0.96 1.69 0.62 T 6.16 32.42 4.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM020 59 15.4N 144 40.5W 02 NOV 0640 +10 1500

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 69.5 * * T 0.11 7.84 32.39 1.3
10 68.0 * * * * 7.88 32.35 1.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM021 59 35.7N 144 37.5W 03 NOV 2230 +10 150

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 120.3 0.20 0.56 0.22 T 8.56 31.48 2.3
11 156.6 0.21 0.67 0.14 T 8.65 31.50 3.0
20 192.9 0.20 0.89 0.23 0.16 9.12 31.75 3.8
50 191.2 0.24 0.98 0.30 0.23 9.15 31.98 3.7
100 385.2 0.53 1.01 0.16 0.25 6.95 32.51 7.2
139 283.6 0.59 0.88 0.18 T 5.27 32.85 5.1

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM022 | 59 41.3N | 144 41.0W | 03 NOV | 1930 | +10 | 135 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 348.7 | 0.36 | 0.40 | 0.31 | T | 6.68 | 30.69 | 6.4 |
| 10 | 170.9 | 0.17 | 0.54 | 0.11 | T | 7.77 | 31.49 | 3.2 |
| 20 | 179.1 | 0.55 | 0.93 | 0.08 | 0.13 | 8.15 | 31.66 | 3.4 |
| 50 | 264.4 | 0.22 | 0.86 | 0.16 | 0.20 | 8.31 | 32.06 | 5.1 |
| 99 | 348.3 | 0.70 | 1.34 | 0.20 | 0.19 | 5.93 | 32.56 | 6.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM023 | 59 53.5N | 144 43.5W | 03 NOV | 0955 | +10 | 152 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 192.8 | 1.20 | 0.73 | 0.25 | * | 7.56 | 30.56 | 3.6 |
| 10 | 173.3 | 0.64 | 0.93 | 0.14 | T | 7.27 | 30.83 | 3.2 |
| 21 | 197.0 | 0.63 | 0.70 | 0.14 | T | 7.61 | 30.97 | 3.7 |
| 50 | 871.6 | 0.46 | 0.50 | 0.20 | T | 8.63 | 31.67 | 17.0 |
| 99 | 484.6 | 0.69 | 1.26 | 0.13 | T | 8.83 | 31.95 | 9.5 |
| 149 | 238.6 | 0.65 | 1.15 | 0.20 | T | 5.92 | 32.81 | 4.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM025 | 60 8.0N | 144 49.9W | 29 OCT | 1045 | +10 | 54 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 185.8 | 0.21 | 0.44 | 0.54 | 0.14 | * | * | * |
| 10 | 187.1 | 0.27 | 0.40 | T | T | * | * | * |
| 20 | 192.1 | 0.19 | 0.37 | T | * | * | * | * |
| 40 | 353.7 | 0.33 | 1.02 | 0.16 | 0.20 | * | * | * |
| 50 | 504.4 | 0.44 | 1.24 | 0.18 | 0.23 | 8.76 | 31.94 | 9.9 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM027 | 60 7.5N | 145 5.9W | 29 OCT | 0545 | +10 | 60 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 206.5 | 0.18 | 0.62 | 0.12 | 0.15 | * | * | * |
| 20 | 234.9 | 0.27 | 0.67 | 0.14 | 0.15 | * | * | * |
| 56 | 567.2 | 0.27 | 1.04 | 0.19 | 0.25 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM028 | 59 58.9N | 145 8.1W | 29 OCT | 1955 | +10 | 143 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 242.2 | 0.33 | 0.86 | 0.16 | 0.21 | 8.11 | 31.41 | 4.6 |
| 10 | 245.6 | 0.30 | 0.74 | 0.14 | 0.14 | 8.15 | 31.40 | 4.7 |
| 20 | 246.8 | 0.29 | 0.73 | 0.15 | 0.16 | 8.17 | 31.42 | 4.7 |
| 40 | 497.5 | 0.47 | 1.23 | 0.22 | 0.25 | 8.54 | 32.02 | 9.7 |
| 97 | 792.1 | 0.66 | 1.44 | 0.22 | 0.20 | 6.86 | 32.23 | 14.9 |
| 137 | 421.5 | 0.55 | 0.99 | 0.22 | T | 5.62 | 32.79 | 7.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM030 | 59 37.4N | 145 14.4W | 31 OCT | 1655 | +10 | 121 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 120.3 | T | 0.35 | T | T | 8.26 | 31.86 | 2.3 |
| 12 | 77.1 | * | * | 0.08 | 0.15 | 8.31 | 31.86 | 1.5 |
| 23 | 132.3 | 0.13 | 0.61 | 0.08 | 0.13 | 8.38 | 31.91 | 2.5 |
| 51 | 116.1 | 0.21 | 0.92 | 0.12 | 0.22 | 8.26 | 32.31 | 2.2 |
| 101 | 356.0 | 0.41 | 1.16 | 0.12 | 0.20 | 5.59 | 32.62 | 6.5 |
| 117 | 290.6 | 0.30 | 0.91 | 0.14 | T | 5.43 | 31.07 | 5.2 |

CRUISE NUMBER
RP-4-DI-75C-4

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM031 | 59 18.9N | 145 15.7W | 31 OCT | 1105 | +10 | 2170 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 2 | 80.6 | 0.19 | 0.62 | 0.12 | 0.16 | 7.90 | 32.37 | 1.5 |
| 22 | 78.3 | * | 0.29 | 0.14 | 0.11 | 7.93 | 32.35 | 1.5 |
| 52 | 91.3 | * | * | 0.05 | 0.23 | 5.75 | 32.67 | 1.6 |
| 76 | 88.4 | * | * | 0.13 | 0.19 | 5.28 | 32.85 | 1.6 |
| 103 | 77.9 | 0.35 | 0.72 | 0.17 | T | 5.14 | 33.04 | 1.4 |
| 151 | 106.8 | 0.27 | 0.74 | 0.46 | 0.13 | 5.35 | 33.60 | 1.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM032 | 59 41.3N | 145 53.0W | 30 OCT | 1650 | +10 | 75 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 229.9 | 0.20 | 0.55 | 0.18 | 0.15 | 8.69 | 31.20 | 4.4 |
| 11 | 245.1 | 0.17 | 0.76 | 0.13 | 0.26 | 8.85 | 31.84 | 4.8 |
| 21 | 152.0 | 0.22 | 0.70 | 0.66 | T | 8.81 | 31.97 | 2.9 |
| 41 | 141.6 | 0.22 | 0.74 | 0.69 | 0.19 | 8.61 | 32.08 | 2.7 |
| 65 | 397.9 | 0.48 | 1.25 | 0.22 | 0.28 | 7.36 | 32.30 | 7.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM033 | 59 51.1N | 145 55.2W | 30 OCT | 1300 | +10 | 104 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 2 | 218.4 | 0.29 | 0.52 | 0.19 | 0.13 | 8.09 | 31.03 | 4.2 |
| 11 | 219.5 | 0.30 | 0.52 | 0.14 | 0.12 | 8.04 | 30.99 | 4.2 |
| 21 | 222.7 | 0.27 | 0.51 | 0.12 | 0.06 | 8.06 | 35.48 | 4.4 |
| 41 | 188.1 | 0.26 | 0.57 | 0.12 | 0.06 | 8.51 | 31.59 | 3.6 |
| 99 | 290.0 | 0.38 | 1.11 | 0.19 | 0.20 | 7.84 | 32.23 | 5.5 |

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM034 | 60 0.7N | 145 53.0W | 30 OCT | 0935 | +10 | 86 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 166.4 | 0.14 | 0.45 | 0.11 | 0.08 | 8.18 | 30.82 | 3.2 |
| 11 | 173.9 | 0.19 | 0.45 | 0.11 | 0.12 | 8.17 | 30.80 | 3.3 |
| 21 | 170.7 | 0.17 | 0.41 | 0.12 | 0.14 | 8.17 | 30.82 | 3.2 |
| 40 | 233.7 | 0.32 | 0.66 | 0.13 | 0.18 | 9.15 | 31.13 | 4.6 |
| 82 | 502.5 | 0.42 | 1.20 | 0.20 | 0.20 | 8.79 | 31.92 | 9.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM035 | 60 10.9N | 145 58.1W | 30 OCT | 0555 | +10 | 106 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 126.4 | 0.24 | 0.42 | 0.09 | 0.09 | 7.45 | 30.26 | 2.3 |
| 10 | 146.0 | 0.18 | 0.52 | 0.09 | 0.13 | 7.92 | 30.64 | 2.6 |
| 20 | 147.9 | 0.19 | 0.52 | 0.10 | 0.09 | 8.40 | 30.94 | 2.8 |
| 49 | 434.3 | 0.35 | 1.03 | 0.16 | 0.24 | 9.15 | 31.70 | 8.6 |
| 99 | 594.8 | 0.39 | 1.02 | 0.15 | 0.33 | 8.20 | 31.96 | 11.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM036 | 60 8.2N | 145 29.8W | 30 OCT | 0200 | +10 | 106 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 167.0 | 0.28 | 0.59 | 0.18 | T | 7.93 | 30.61 | 3.1 |
| 10 | 176.2 | 0.18 | 0.43 | 0.12 | * | 7.95 | 30.61 | 3.3 |
| 20 | 168.2 | 0.15 | 0.36 | 0.09 | * | 7.92 | 30.63 | 3.2 |
| 30 | 160.4 | 0.20 | 0.44 | 0.12 | T | 8.06 | 30.69 | 3.0 |
| 80 | 522.4 | 0.35 | 1.03 | 0.15 | 0.24 | 8.31 | 30.80 | 10.0 |
| 100 | 465.8 | 0.15 | 0.77 | 0.14 | 0.20 | 8.45 | 32.02 | 9.1 |

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM037 60 9.0N 145 19.8W 29 OCT 0045 +10 62

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 165.7 0.26 0.53 0.14 T 7.79 30.23 3.1
20 172.3 0.17 0.36 0.08 * 7.77 32.06 2.9
40 178.2 0.19 0.47 0.07 T 8.47 30.73 3.4
55 228.4 0.22 0.50 0.13 0.16 8.88 31.30 4.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM038 60 15.8N 145 42.5W 28 OCT 1900 +10 45

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 154.8 0.28 0.62 0.13 0.13 8.38 30.94 2.9
10 150.2 0.14 0.43 0.08 T 8.38 30.93 2.9
20 159.6 0.18 0.47 0.09 * 8.42 30.91 3.0
40 245.0 0.25 0.79 0.17 0.18 9.14 31.28 4.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM039 60 18.7N 146 0.0W 28 OCT 1620 +10 32

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 168.2 0.15 0.41 0.09 0.05 7.74 30.19 3.1
10 169.1 0.16 0.40 0.10 T 8.49 30.47 3.2
20 166.2 0.19 0.48 0.13 * 8.83 30.64 3.2
26 192.2 0.19 0.52 0.12 0.10 9.04 30.77 3.7

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM040 60 32.8N 146 25.6W 28 OCT 0910 +10 109

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 527.3 | 0.35 | 0.75 | 0.16 | 0.22 | 6.18 | 29.74 | 10.0 |
| 10 | 515.8 | 0.40 | 0.78 | 0.13 | 0.17 | 6.40 | 29.90 | 9.9 |
| 20 | 409.3 | 0.37 | 0.86 | 0.17 | 0.20 | 9.55 | 30.56 | 8.1 |
| 40 | 321.1 | 0.32 | 0.82 | 0.17 | 0.18 | 9.33 | 31.01 | 6.3 |
| 103 | 456.0 | 0.39 | 0.93 | 0.18 | 0.11 | 7.77 | 31.93 | 8.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM041 60 32.9N 146 38.4W 28 OCT 0550 +10 99

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 229.2 | 0.18 | 0.51 | 0.12 | 0.15 | 7.70 | 29.78 | 4.3 |
| 12 | 236.2 | 0.27 | 0.66 | 0.14 | 0.17 | 8.85 | 30.38 | 4.6 |
| 22 | 226.0 | 0.28 | 0.69 | 0.13 | 0.15 | 9.31 | 30.62 | 4.4 |
| 42 | 273.2 | 0.21 | 0.69 | 0.17 | 0.20 | 9.12 | 30.97 | 5.3 |
| 62 | 297.9 | 0.29 | 0.79 | 0.19 | 0.19 | 8.33 | 31.28 | 5.7 |
| 93 | 453.1 | 0.27 | 0.86 | 0.17 | 0.16 | 7.36 | 32.18 | 8.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 60 30.8N 146 47.3W 28 OCT 0240 +10 386

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 152.0 | 0.20 | 0.57 | 0.13 | 0.16 | 7.99 | 29.68 | 2.8 |
| 10 | 172.8 | 0.17 | 0.47 | 0.12 | 0.12 | 8.40 | 29.85 | 3.3 |
| 21 | 322.5 | 0.23 | 0.75 | 0.18 | 0.21 | 9.46 | 30.56 | 6.3 |
| 41 | 314.7 | 0.27 | 1.05 | 0.20 | 0.21 | 8.76 | 30.96 | 6.1 |
| 101 | 312.2 | 0.31 | 0.84 | 0.21 | T | 5.71 | 31.89 | 5.6 |
| 383 | 333.9 | 0.37 | 0.79 | 0.16 | 0.08 | 5.01 | 33.02 | 6.0 |

CRUISE NUMBER
RP-4-D-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM043 60 20.1N 146 53.6W 27 OCT 2140 +10 287

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 185.5 0.18 0.53 0.12 0.13 8.22 29.78 3.5
12 191.9 0.17 0.47 0.11 0.07 8.31 29.77 3.6
21 343.4 0.33 0.91 0.19 0.21 9.37 30.59 6.7
41 298.2 0.31 0.91 0.21 0.20 8.95 30.92 5.8
101 335.7 0.54 1.05 0.24 0.17 6.30 31.79 6.2
282 342.9 0.40 0.74 0.18 * 4.98 32.90 6.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM044 60 14.0N 146 49.7W 27 OCT 1845 +10 214

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 109.8 0.21 0.42 0.06 * 7.63 29.91 2.0
11 115.8 0.13 0.37 0.06 * 8.18 30.24 2.2
22 125.4 0.16 0.43 0.11 * 8.52 30.44 2.4
41 217.2 0.31 0.70 0.15 T 9.55 31.11 4.3
101 393.3 0.40 0.95 0.16 0.17 8.60 31.98 7.7
206 540.5 0.47 0.84 0.19 T 5.50 32.49 9.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM045 60 2.2N 146 42.1W 27 OCT 1500 +10 118

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 260.7 0.30 0.69 0.17 T 8.49 30.35 5.0
10 161.8 0.32 0.64 0.12 0.08 8.44 31.41 3.1
21 186.5 0.35 0.53 0.14 T 8.47 31.41 3.6
42 632.4 0.19 0.69 0.16 0.11 8.52 31.91 12.3
82 976.1 0.48 1.11 0.17 0.19 7.83 32.11 18.8
110 1384.9 0.62 1.21 0.18 0.20 7.44 32.18 26.4

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46A 59 54.7N 146 38.1W 26 OCT 0200 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 6 | 150.9 | 0.34 | 0.68 | 0.11 | * | 8.81 | 31.29 | 2.9 |
| 11 | 150.0 | 0.31 | 0.62 | 0.12 | 0.11 | 8.85 | 31.30 | 2.9 |
| 21 | 165.0 | 0.42 | 0.68 | 0.11 | * | 8.94 | 31.38 | 3.2 |
| 42 | 304.1 | 0.18 | 0.06 | 0.14 | 0.14 | 8.81 | 31.76 | 5.9 |
| 61 | 654.4 | 0.18 | 0.70 | 0.16 | 0.15 | 8.05 | 32.10 | 12.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46B 59 54.7N 146 38.1W 26 OCT 0545 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 156.0 | 0.15 | 0.46 | 0.11 | T | 8.92 | 31.05 | 3.0 |
| 11 | 159.5 | 0.16 | 0.45 | 0.10 | T | 8.94 | 31.07 | 3.1 |
| 22 | 158.8 | 0.16 | 0.46 | 0.10 | T | 8.94 | 31.06 | 3.1 |
| 42 | 225.7 | 0.33 | 0.73 | 0.14 | 0.11 | 9.29 | 31.34 | 4.4 |
| 58 | 387.5 | 0.21 | 0.79 | 0.14 | 0.13 | 8.14 | 32.09 | 7.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46C 59 54.7N 146 38.1W 26 OCT 0945 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 157.9 | 0.18 | 0.51 | 0.14 | 0.07 | 8.88 | 31.05 | 3.0 |
| 11 | 157.4 | 0.19 | 0.44 | 0.12 | T | 8.90 | 31.05 | 3.0 |
| 21 | 180.7 | 0.20 | 0.44 | 0.12 | T | 8.90 | 31.05 | 3.1 |
| 41 | 197.9 | 0.18 | 0.58 | 0.12 | T | 9.06 | 31.42 | 3.9 |
| 56 | 238.5 | 0.23 | 0.66 | 0.16 | T | 9.18 | 31.53 | 4.7 |

CRUISE NUMBER
RP-4-DI-75C-1

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM46D | 59 54.7N | 146 38.1W | 26 OCT | 1345 | +10 | 64 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 147.3 | 0.21 | 0.46 | 0.14 | 0.05 | 8.81 | 30.86 | 2.8 |
| 11 | 146.5 | 0.20 | 0.44 | 0.11 | * | 8.81 | 30.88 | 2.8 |
| 21 | 149.3 | 0.16 | 0.43 | 0.10 | T | 8.88 | 31.01 | 2.9 |
| 42 | 233.9 | 0.23 | 0.61 | 0.15 | T | 9.28 | 31.40 | 4.6 |
| 58 | 273.4 | 0.21 | 0.71 | 0.14 | 0.14 | 8.63 | 31.85 | 5.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM46E | 59 54.7N | 146 38.1W | 26 OCT | 1750 | +10 | 64 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 151.5 | 0.18 | 0.47 | 0.11 | T | 8.78 | 30.96 | 2.9 |
| 10 | 154.7 | 0.30 | 0.51 | 0.16 | T | 8.78 | 30.97 | 3.0 |
| 21 | 158.1 | 0.30 | 0.57 | 0.10 | * | 8.83 | 30.97 | 3.0 |
| 40 | 507.4 | 0.37 | 0.79 | 0.14 | 0.10 | 9.26 | 31.41 | 10.0 |
| 58 | 458.5 | 0.29 | 0.60 | 0.15 | 0.15 | 9.17 | 31.59 | 9.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM46F | 59 54.7N | 146 38.1W | 26 OCT | 2140 | +10 | 64 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 148.6 | 0.22 | 0.54 | 0.15 | T | 8.76 | 30.93 | 2.8 |
| 10 | 149.3 | 0.22 | 0.46 | 0.12 | T | 8.76 | 30.96 | 2.9 |
| 20 | 154.2 | 0.20 | 0.45 | 0.13 | T | 8.79 | 30.92 | 3.0 |
| 40 | 355.0 | 0.24 | 0.63 | 0.17 | T | 9.26 | 31.44 | 7.0 |
| 50 | 350.9 | 0.24 | 0.64 | 0.14 | 0.09 | 8.97 | 31.65 | 6.9 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46G 59 54.7N 146 38.1W 27 OCT 0140 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 149.2 0.18 0.47 0.14 T 8.74 30.98 2.9
11 150.6 0.15 0.41 0.12 T 8.76 30.98 2.9
21 488.3 0.36 0.78 0.13 T 8.86 30.99 9.5
40 402.3 0.15 0.62 0.13 0.11 9.22 31.46 7.9
55 311.5 0.22 0.67 0.15 0.05 8.76 31.78 6.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46H 59 54.7N 146 38.1W 27 OCT 0530 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 178.9 0.18 0.52 0.10 0.09 8.79 31.08 3.5
10 181.1 0.14 0.41 0.10 T 8.81 31.08 3.5
21 185.5 0.16 0.42 0.10 0.06 8.79 31.09 3.6
41 183.8 0.19 0.44 0.13 T 8.85 31.09 3.6
57 286.2 0.31 0.85 0.16 0.18 8.99 31.77 5.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46I 59 54.7N 146 38.1W 27 OCT 0935 +10 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 176.0 0.22 0.53 0.10 T 8.79 31.10 3.4
11 178.3 0.21 0.46 0.13 T 8.79 31.09 3.4
21 181.5 0.23 0.50 0.44 0.08 8.79 31.10 3.5
41 199.7 0.20 0.59 0.13 T 9.08 31.32 3.9
58 262.7 0.25 0.72 0.16 T 8.87 31.80 5.1

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM047 | 59 47.7N | 146 32.6W | 25 OCT | 1945 | +10 | 76 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 155.6 | 0.28 | 0.62 | 0.16 | T | 8.92 | 31.09 | 3.0 |
| 11 | 153.2 | 0.17 | 0.49 | 0.09 | T | 8.92 | 31.08 | 3.0 |
| 21 | 170.9 | 0.20 | 0.52 | 0.12 | * | 9.06 | 31.36 | 3.3 |
| 40 | 230.5 | 0.51 | 0.82 | 0.16 | * | 8.79 | 31.71 | 4.5 |
| 66 | 291.8 | 0.24 | 0.86 | 0.16 | 0.14 | 8.15 | 32.15 | 5.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM048 | 59 16.2N | 146 15.0W | 25 OCT | 1130 | +10 | 395 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 222.2 | 0.20 | 0.59 | 0.17 | T | 8.72 | 31.41 | 4.3 |
| 21 | 253.4 | 0.43 | 0.86 | 0.13 | T | 8.81 | 31.50 | 4.9 |
| 52 | 198.5 | 0.43 | 1.01 | 0.09 | T | 9.10 | 32.01 | 3.9 |
| 77 | 238.1 | 0.43 | 1.13 | 0.14 | T | 8.51 | 32.10 | 4.6 |
| 102 | 286.5 | 0.44 | 1.13 | 0.15 | T | 6.95 | 32.41 | 5.4 |
| 199 | 160.9 | 0.44 | 0.77 | 0.15 | T | 5.39 | 33.50 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM049 | 59 11.2N | 147 36.3W | 24 OCT | 1530 | +10 | 205 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 163.5 | 0.18 | 0.59 | 0.14 | T | 9.01 | 31.33 | 3.2 |
| 12 | 180.7 | 0.39 | 0.82 | 0.11 | T | 9.08 | 31.34 | 3.5 |
| 22 | 232.9 | 0.24 | 0.71 | 0.15 | T | 8.86 | 31.92 | 4.5 |
| 51 | 141.6 | 0.53 | 0.96 | 0.12 | T | 8.49 | 32.20 | 2.7 |
| 99 | 184.6 | 0.44 | 0.97 | 0.20 | T | 5.35 | 32.80 | 3.3 |
| 205 | 112.5 | 0.28 | 0.56 | 0.13 | T | 5.03 | 33.78 | 2.0 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM050 59 28.9N 147 56.0W 24 OCT 2130 +10 148

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 167.6 0.44 0.81 * T 8.85 31.28 3.2
10 180.2 0.21 0.51 0.13 * 8.88 31.30 3.5
31 208.0 0.19 0.59 0.12 * 8.97 31.31 4.0
50 351.7 0.23 0.87 0.15 T 8.42 31.96 6.8
101 346.6 0.31 0.96 0.19 T 6.54 32.35 6.4
144 287.8 0.47 0.92 0.15 * 5.55 32.77 5.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM051 59 50.1N 148 10.8W 25 OCT 0115 +10 76

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 435.2 0.63 0.84 0.19 0.25 8.76 29.92 8.4
11 351.4 0.32 0.49 0.16 T 8.90 30.18 6.8
30 224.7 0.61 0.71 0.18 T 9.22 30.92 4.4
51 282.2 0.74 0.78 0.23 0.07 9.17 31.18 5.5
72 508.7 0.66 1.31 0.24 T 6.04 31.74 9.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62A 59 34.6N 142 10.9W 05 NOV 0240 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 84.4 * * 0.10 T 7.68 32.37 1.6
10 83.1 * * 0.09 0.09 7.70 32.37 1.5
21 81.9 0.14 0.58 0.06 0.05 7.72 32.34 1.5
61 86.2 * * 0.11 0.20 7.27 32.52 1.6
101 89.1 0.24 0.84 0.20 0.26 5.10 32.88 1.6
184 85.4 0.35 0.76 0.11 0.14 5.46 33.53 1.5

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62B 59 34.6N 142 10.9W 05 NOV 0530 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 81.9 | 0.37 | 0.76 | 0.13 | 0.11 | 7.72 | 32.37 | 1.5 |
| 11 | 82.3 | 0.39 | 0.80 | 0.08 | 0.10 | 7.74 | 32.35 | 1.5 |
| 22 | 82.3 | * | * | 0.09 | 0.16 | 7.74 | 32.36 | 1.5 |
| 61 | 83.3 | * | * | 0.10 | 0.18 | 7.74 | 32.36 | 1.6 |
| 100 | 93.4 | 0.25 | 0.82 | 0.18 | 0.16 | 5.28 | 32.75 | 1.6 |
| 186 | 207.4 | 0.38 | 0.65 | 0.18 | T | 5.48 | 33.57 | 3.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62C 59 34.6N 142 10.9W 05 NOV 1015 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 0 | 86.2 | 0.15 | 0.68 | 0.10 | 0.17 | 7.75 | 33.30 | 1.6 |
| 11 | 83.3 | 0.35 | 0.70 | 0.13 | 0.16 | 7.77 | 32.33 | 1.6 |
| 23 | 84.2 | 0.14 | 0.59 | 0.09 | 0.16 | 7.75 | 32.34 | 1.6 |
| 50 | 95.6 | * | * | 0.14 | 0.23 | 7.63 | 32.43 | 1.8 |
| 101 | 89.0 | * | * | 0.16 | 0.16 | 5.39 | 32.82 | 1.6 |
| 191 | 136.5 | 0.43 | 0.75 | 0.21 | * | 5.48 | 33.69 | 2.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62D 59 34.6N 142 10.9W 05 NOV 1345 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 151.0 | * | * | 0.09 | 0.14 | 7.84 | 31.93 | 2.9 |
| 10 | 110.8 | * | * | 0.15 | 0.07 | 7.79 | 32.12 | 2.1 |
| 22 | 89.2 | * | * | * | 0.11 | 7.75 | 32.31 | 1.7 |
| 50 | 83.4 | 0.37 | 0.70 | 0.15 | 0.16 | 7.77 | 32.38 | 1.6 |
| 101 | 89.9 | * | * | 0.14 | 0.16 | 5.22 | 32.87 | 1.6 |
| 183 | 144.8 | 0.34 | 0.72 | 0.14 | T | 5.48 | 33.67 | 2.6 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62E 59 34.6N 142 10.9W 05 NOV 1740 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 119.8 | * | * | 0.14 | 0.16 | 7.79 | 31.06 | 2.2 |
| 11 | 127.2 | * | * | 0.16 | 0.17 | 7.77 | 31.95 | 2.4 |
| 61 | 76.4 | 0.15 | 0.58 | 0.14 | T | 7.77 | 32.37 | 1.4 |
| 97 | 88.3 | 0.26 | 0.79 | 0.14 | T | 5.48 | 32.81 | 1.6 |
| 183 | 142.8 | 0.22 | 0.56 | 0.15 | * | 5.48 | 33.65 | 2.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62F 59 34.6N 142 10.9W 05 NOV 2130 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|------|
| 0 | 104.6 | 0.22 | 0.95 | 0.12 | T | 7.52 | 32.21 | 2.0 |
| 10 | 112.1 | 0.33 | 0.80 | 0.15 | 0.11 | 7.52 | 32.24 | 2.1 |
| 19 | 133.7 | 0.42 | 1.13 | 0.12 | 0.24 | 7.58 | 32.24 | 2.5 |
| 60 | 399.4 | 0.48 | 1.33 | 0.18 | 0.30 | 6.39 | 32.48 | 7.4 |
| 100 | 560.6 | 0.56 | 1.23 | 0.22 | 0.21 | 5.87 | 32.64 | 10.3 |
| 177 | 167.8 | 0.35 | 0.75 | 0.16 | * | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM62G 59 34.6N 142 10.9W 06 NOV 0145 +10 188

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 10 | 83.8 | 0.51 | 0.73 | 0.12 | T | 7.70 | 32.31 | 1.6 |
| 21 | 82.3 | 0.23 | 0.61 | 0.10 | T | 7.70 | 32.36 | 1.5 |
| 59 | 95.7 | * | * | 0.17 | 0.24 | 6.93 | 32.50 | 1.8 |
| 100 | 88.0 | * | * | 0.17 | 0.17 | 5.46 | 32.87 | 1.6 |
| 179 | 208.4 | 0.39 | 0.78 | 0.16 | * | 5.50 | 33.53 | 3.8 |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM62H | 59 34.6N | 142 10.9W | 06 NOV | 0545 | +10 | 188 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 84.6 | * | * | 0.11 | 0.18 | 7.65 | 32.34 | 1.6 |
| 10 | 82.6 | * | * | 0.07 | 0.14 | 7.65 | 32.34 | 1.5 |
| 19 | 82.3 | * | * | 0.12 | 0.16 | 7.63 | 32.35 | 1.5 |
| 58 | 96.4 | * | * | 0.15 | 0.25 | 7.45 | 32.47 | 1.8 |
| 98 | 84.4 | * | * | 0.14 | 0.23 | 5.41 | 32.87 | 1.5 |
| 182 | 213.5 | * | * | 0.16 | * | 5.50 | 33.53 | 3.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM62I | 59 34.6N | 142 10.9W | 06 NOV | 0925 | +10 | 188 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 11 | 84.5 | * | * | 0.12 | 0.20 | 7.61 | 32.34 | 1.6 |
| 22 | 79.9 | * | * | 0.09 | 0.14 | 7.63 | 32.33 | 1.5 |
| 61 | 100.6 | * | * | 0.16 | 0.30 | 7.08 | 32.48 | 1.9 |
| 101 | 1297.8 | * | * | 0.20 | 0.16 | 5.52 | 32.90 | 23.7 |
| 183 | 191.4 | * | * | 0.11 | T | 5.50 | 33.57 | 3.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| X001 | 59 44.0N | 144 37.5W | 03 NOV | 1320 | +10 | 104 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 100 | 482.1 | 0.15 | 0.94 | 0.14 | 0.18 | * | * | * |
| 102 | 414.8 | 0.18 | 0.85 | 0.16 | 0.07 | * | * | * |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| X002 | 59 48.8N | 144 39.4W | 03 NOV | 1420 | +10 | 70 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 66 | 335.0 | 0.61 | 1.08 | 0.25 | T | * | * | * |
| 68 | 280.3 | 0.24 | 0.56 | 0.12 | T | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| X003 | 59 44.0N | 144 39.8W | 03 NOV | 1515 | +10 | 43 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 39 | 359.4 | 0.54 | 0.79 | 0.21 | T | * | * | * |
| 41 | 335.8 | 0.39 | 0.83 | 0.09 | T | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| X004 | 59 43.4N | 144 40.6W | 03 NOV | 1605 | +10 | 59 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 55 | 271.4 | 0.37 | 0.78 | 0.10 | T | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| X005 | 59 43.4N | 144 40.1W | 03 NOV | 1650 | +10 | 59 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 55 | 435.5 | 0.17 | 0.85 | * | T | * | * | * |
| 57 | 430.9 | 0.52 | 1.23 | 0.11 | 0.38 | * | * | * |

CRUISE NUMBER
RP-4-DI-75C-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
21 OCT-09 NOV 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-----|------|
| X006 | 59 43.3N | 144 40.3W | 03 NOV | 1815 | +10 | 74 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 70 | 444.1 | 0.17 | 0.92 | 0.15 | 0.19 | * | * | * |
| 72 | 479.8 | 0.58 | 1.44 | 0.16 | 0.21 | * | * | * |

CRUISE NUMBER
RP-4-DI-76A-111

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
04 APR-13 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM13A | 60 41.5N | 147 40.9W | 11 APR | 1535 | +10 | 700 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 9 | 134.2 | 0.36 | 1.33 | 0.56 | 0.83 | * | * | * |
| 29 | 132.1 | 0.31 | 0.98 | 0.56 | 0.78 | * | * | * |
| 97 | 129.1 | 0.30 | 0.77 | 0.38 | 0.60 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM13F | 60 41.5N | 147 40.9W | 12 APR | 1030 | +10 | 700 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 114.3 | 0.37 | 1.03 | 0.45 | 0.65 | * | * | * |
| 10 | 126.0 | 0.33 | 1.03 | * | * | * | * | * |
| 20 | 120.6 | 0.39 | 1.11 | 0.56 | 0.85 | * | * | * |
| 30 | 142.0 | 0.27 | 0.88 | 0.68 | * | * | * | * |
| 50 | 170.2 | 0.29 | 0.79 | 0.80 | * | * | * | * |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM001 | 59 50.8N | 149 28.6W | 14 APR | 1715 | +10 | 268 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 157.7 | 0.28 | 0.71 | 0.21 | 0.36 | 2.91 | 31.60 | 2.6 |
| 20 | 161.0 | 0.27 | 0.63 | * | * | 2.91 | 31.59 | 2.7 |
| 60 | 226.4 | 0.41 | 0.67 | 0.43 | 0.55 | 3.25 | 31.81 | 3.8 |
| 96 | 254.0 | 0.47 | 0.51 | 0.47 | 0.58 | 3.39 | 31.93 | 4.3 |
| 184 | 169.5 | T | 0.44 | 0.43 | 0.42 | 4.22 | 32.28 | 2.9 |
| 254 | 205.2 | T | 0.43 | 0.36 | 0.40 | 4.59 | 32.66 | 3.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM002 | 59 24.3N | 149 6.8W | 15 APR | 1310 | +10 | 214 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 97.9 | T | 0.53 | * | 0.46 | 4.29 | 32.26 | 1.7 |
| 20 | 99.8 | T | 0.44 | * | 0.33 | 4.25 | 32.28 | 1.7 |
| 50 | 104.9 | T | 0.42 | * | 0.33 | 4.25 | 32.30 | 1.8 |
| 100 | 116.5 | T | 0.41 | * | 0.18 | 4.59 | 32.41 | 2.0 |
| 150 | 149.8 | T | 0.38 | * | 0.30 | 4.57 | 32.53 | 2.6 |
| 205 | 189.1 | T | 0.37 | * | 0.21 | 4.61 | 32.72 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM003 | 58 59.1N | 148 41.2W | 15 APR | 1810 | +10 | 241 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 94.4 | T | 0.57 | 0.11 | 0.45 | 4.52 | 32.31 | 1.6 |
| 18 | 93.8 | T | 0.50 | 0.07 | 0.29 | 4.52 | 32.35 | 1.6 |
| 57 | 92.5 | T | 0.45 | 0.07 | 0.35 | 4.45 | 32.37 | 1.6 |
| 97 | 115.8 | T | 0.35 | 0.09 | 0.24 | 4.64 | 31.97 | 2.0 |
| 143 | 129.5 | T | 0.37 | 0.08 | 0.25 | 4.70 | 32.94 | 2.3 |
| 236 | 121.6 | T | 0.42 | 0.14 | 0.16 | 5.06 | 33.50 | 2.2 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 58 24.9N | 148 4.5W | 16 APR | 0010 | +10 | 1410 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 89.1 | T | 0.44 | 0.06 | 0.26 | 4.61 | 32.29 | 1.5 |
| 19 | 89.7 | T | 0.44 | 0.05 | 0.27 | 4.63 | 32.30 | 1.5 |
| 58 | 109.3 | T | 0.36 | 0.08 | 0.21 | 4.90 | 32.51 | 1.9 |
| 96 | 113.6 | T | 0.35 | * | 0.33 | 4.66 | 32.81 | 2.0 |
| 192 | 158.2 | T | 0.44 | 0.12 | T | 5.72 | 33.56 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM006 | 58 11.4N | 141 56.1W | 28 APR | 0915 | +10 | 2000 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 74.0 | T | 0.57 | * | 0.18 | 4.83 | 32.61 | 1.3 |
| 19 | 74.4 | 0.15 | 0.61 | * | 0.21 | 4.75 | 32.60 | 1.3 |
| 60 | 71.1 | 0.15 | 0.62 | * | 0.16 | 4.25 | 32.71 | 1.2 |
| 99 | 73.0 | 0.14 | 0.44 | * | 0.20 | 4.50 | 33.33 | 1.3 |
| 201 | 69.5 | T | 0.42 | * | 0.16 | 4.20 | 33.84 | 1.2 |
| 400 | 49.4 | T | 0.28 | * | 0.14 | 4.06 | 34.05 | 0.8 |
| 600 | 13.6 | T | 0.15 | * | 0.10 | 3.61 | 34.19 | 0.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM007 | 58 46.0N | 141 16.7W | 28 APR | 0345 | +10 | 1800 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 73.6 | T | 0.68 | * | * | 5.56 | 32.42 | 1.3 |
| 22 | 74.0 | 0.15 | 0.60 | * | * | 5.49 | 32.44 | 1.3 |
| 62 | 76.3 | 0.16 | 0.60 | * | * | 5.00 | 32.63 | 1.3 |
| 101 | 70.6 | T | 0.61 | * | * | 4.20 | 32.68 | 1.2 |
| 202 | 108.9 | 0.21 | 0.40 | 0.14 | 0.20 | 5.74 | 33.76 | 2.0 |
| 399 | 73.0 | * | 0.30 | 0.07 | 0.09 | 4.27 | 33.95 | 1.3 |
| 602 | 37.8 | T | 0.06 | 0.09 | 0.15 | 3.88 | 34.10 | 0.6 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM014 | 59 16.7N | 142 37.8W | 23 APR | 0015 | +10 | 2377 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 82.0 | 0.37 | 0.95 | 0.10 | 0.41 | 5.15 | 32.08 | 1.4 |
| 20 | 81.1 | 0.18 | 0.50 | 0.11 | T | 4.95 | 32.09 | 1.4 |
| 60 | 81.4 | 0.18 | 0.43 | 0.10 | T | 4.90 | 32.07 | 1.4 |
| 101 | 118.8 | 0.18 | 0.33 | 0.10 | T | 5.20 | 32.27 | 2.1 |
| 200 | 102.0 | 0.19 | 0.33 | 0.12 | * | 4.99 | 32.71 | 1.8 |
| 400 | 81.5 | 0.11 | 0.21 | 0.26 | * | 4.54 | 33.92 | 1.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1501 | 59 35.6N | 142 6.5W | 23 APR | 1800 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 179 | 128.1 | 0.24 | 0.40 | 0.21 | 0.22 | 4.99 | 32.94 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1502 | 59 35.6N | 142 6.5W | 23 APR | 1045 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 85.2 | 0.22 | 0.99 | 0.12 | 0.50 | 5.45 | 32.02 | 1.5 |
| 19 | 125.7 | 1.41 | 0.53 | 0.40 | 0.27 | 5.04 | 32.00 | 2.2 |
| 59 | * | * | 0.41 | 0.09 | 0.22 | 5.00 | 32.17 | * |
| 100 | 128.6 | 0.28 | 0.35 | 0.22 | 0.21 | 5.20 | 32.45 | 2.3 |
| 178 | * | * | 0.43 | 0.17 | 0.17 | 4.68 | 32.93 | * |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1503 | 59 35.6N | 142 6.5W | 23 APR | 1250 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 170 | 189.3 | 0.20 | 0.39 | 0.14 | 0.23 | 5.05 | 33.18 | 3.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1504 | 59 35.6N | 142 6.5W | 23 APR | 1415 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 88.0 | 0.22 | 1.49 | 0.16 | 0.73 | 6.01 | 31.95 | 1.6 |
| 57 | 125.9 | 0.20 | 0.47 | 0.11 | 0.24 | 4.88 | 32.11 | 2.2 |
| 100 | 213.6 | 0.17 | 0.36 | 0.22 | 0.25 | 5.17 | 32.34 | 3.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1505 | 59 35.6N | 142 6.5W | 23 APR | 1610 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | * | * | 1.52 | 0.16 | 0.81 | 5.92 | 32.06 | * |
| 189 | 132.6 | 0.20 | 0.39 | 0.15 | 0.18 | 4.91 | 32.95 | 2.3 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1506 | 59 35.6N | 142 6.5W | 23 APR | 1845 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 89.1 | 0.25 | 1.13 | 0.12 | 0.58 | 5.58 | 31.99 | 1.6 |
| 19 | * | * | 0.49 | 0.13 | 0.25 | 5.08 | 32.05 | * |
| 58 | * | * | 0.43 | 0.18 | 0.25 | 4.84 | 32.11 | * |
| 100 | 257.7 | 0.20 | 0.31 | * | * | 5.15 | 31.70 | 4.6 |
| 196 | 127.4 | 0.22 | 0.37 | * | * | 4.77 | 32.86 | 2.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1507 | 59 35.6N | 142 6.5W | 23 APR | 2020 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | * | * | 1.26 | 0.13 | 0.64 | 5.79 | 32.03 | * |
| 200 | 135.0 | 0.22 | 0.42 | 0.13 | T | 5.29 | 33.23 | 2.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1508 | 59 35.6N | 142 6.5W | 23 APR | 2200 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | * | * | 1.30 | 0.13 | 0.69 | 5.66 | 32.01 | * |
| 19 | * | * | 0.49 | 0.11 | 0.28 | * | * | * |
| 60 | 86.4 | 0.20 | 0.46 | 0.10 | 0.25 | 4.99 | 32.09 | 1.5 |
| 100 | 164.8 | 0.21 | 0.35 | 0.09 | 0.27 | 5.10 | 32.31 | 2.9 |
| 177 | * | * | 0.38 | 0.15 | 0.21 | 4.97 | 32.85 | * |

CRUISE NUMBER
RP-4-D1-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1509 | 59 35.6N | 142 6.5W | 24 APR | 0015 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | * | * | 1.16 | 0.11 | 0.63 | 5.60 | 31.99 | * |
| 175 | 203.5 | 0.23 | 0.62 | 0.10 | 0.23 | 5.04 | 32.75 | 3.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1512 | 59 35.6N | 142 6.5W | 24 APR | 0602 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 92.6 | * | 1.03 | 0.12 | 0.56 | 5.60 | 31.94 | 1.6 |
| 19 | 90.8 | 0.21 | 0.58 | * | * | 5.17 | 32.05 | 1.6 |
| 58 | 91.1 | * | 0.44 | 0.28 | * | 4.99 | 32.10 | 1.6 |
| 97 | * | * | 0.33 | 0.16 | * | 5.22 | 32.43 | * |
| 177 | * | * | 0.35 | 0.21 | 0.33 | 5.04 | 32.81 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1513 | 59 35.6N | 142 6.5W | 24 APR | 0800 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 89.4 | 1.15 | 1.31 | 0.35 | 0.57 | 5.70 | 32.00 | 1.6 |
| 174 | 186.6 | 0.98 | 0.40 | 0.12 | 0.50 | 5.04 | 32.63 | 3.3 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1514 | 59 35.6N | 142 6.5W | 24 APR | 1000 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 85.6 | 1.23 | 1.32 | 0.27 | 0.70 | 5.60 | 32.10 | 1.5 |
| 20 | 88.2 | 1.07 | 0.56 | 0.24 | 0.32 | 5.09 | 32.01 | 1.5 |
| 61 | 88.9 | 1.18 | 0.52 | 0.25 | 0.36 | 5.00 | 32.09 | 1.5 |
| 100 | 191.5 | 1.25 | 0.42 | 0.31 | 0.36 | 5.10 | 32.32 | 3.4 |
| 179 | 168.3 | 1.12 | 0.50 | 0.35 | 0.36 | 5.02 | 32.82 | 3.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1515 | 59 35.6N | 142 6.5W | 24 APR | 1155 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 107.3 | 1.37 | 1.00 | 0.25 | 0.59 | 6.04 | 32.02 | 1.9 |
| 176 | 178.0 | 1.16 | 0.47 | 0.15 | 0.28 | 5.06 | 32.81 | 3.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1516 | 59 35.6N | 142 6.5W | 24 APR | 1400 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 92.1 | 1.18 | 1.43 | 0.17 | 0.77 | 5.97 | 31.95 | 1.6 |
| 20 | 87.5 | 1.05 | 0.46 | 0.32 | 0.35 | 5.15 | 31.96 | 1.5 |
| 60 | 85.9 | 0.81 | 0.46 | 0.25 | 0.34 | 4.99 | 32.10 | 1.5 |
| 100 | 222.5 | 0.86 | 0.35 | 0.28 | 0.30 | 5.17 | 32.36 | 4.0 |
| 193 | 150.9 | 1.02 | 0.43 | 0.31 | 0.22 | 4.97 | 32.93 | 2.7 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1517 | 59 35.6N | 142 6.5W | 24 APR | 1600 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 85.7 | 0.96 | 1.51 | 0.35 | 0.89 | 6.37 | 31.95 | 1.5 |
| 172 | * | * | 1.52 | 0.26 | 0.85 | 5.08 | 32.74 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1518 | 59 35.6N | 142 6.5W | 24 APR | 1805 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 86.7 | 0.19 | 1.38 | 0.16 | 0.82 | 5.61 | 32.01 | 1.5 |
| 19 | 93.1 | 0.91 | 0.47 | 0.23 | 0.30 | 5.15 | 32.01 | 1.6 |
| 57 | 92.5 | T | 0.46 | 0.23 | 0.28 | 5.02 | 32.07 | 1.6 |
| 97 | 114.9 | T | 0.36 | 0.31 | 0.22 | 5.21 | 32.35 | 2.0 |
| 169 | 207.8 | T | 0.36 | 0.26 | 0.27 | 5.32 | 32.56 | 3.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1519 | 59 35.6N | 142 6.5W | 24 APR | 2005 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 81.5 | 0.17 | 1.43 | 0.14 | 0.76 | 5.99 | 31.99 | 1.4 |
| 172 | 220.0 | T | 0.36 | 0.15 | 0.28 | 5.18 | 31.77 | 4.0 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1520 | 59 35.6N | 142 6.5W | 24 APR | 2200 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 80.6 | 0.15 | 1.49 | 0.22 | 1.05 | 6.04 | 32.00 | 1.4 |
| 19 | 81.5 | T | 0.54 | 0.14 | 0.40 | 5.11 | 32.02 | 1.4 |
| 60 | 85.2 | T | 0.49 | 0.17 | 0.34 | 4.97 | 32.11 | 1.5 |
| 100 | 166.3 | 0.16 | 0.25 | 0.21 | 0.69 | 5.21 | 32.44 | 3.0 |
| 177 | 215.6 | T | 0.38 | 0.16 | 0.34 | 5.13 | 32.77 | 3.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1521 | 59 35.6N | 142 6.5W | 25 APR | 0005 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 86.1 | 0.15 | 1.34 | 0.27 | 1.03 | 5.86 | 31.99 | 1.5 |
| 176 | 206.4 | T | 0.41 | 0.12 | 0.33 | 5.21 | 32.70 | 3.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1522 | 59 35.6N | 142 6.5W | 25 APR | 0200 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 86.3 | T | 1.38 | 0.23 | 1.05 | 5.86 | 32.02 | 1.5 |
| 20 | 86.4 | T | 0.72 | 0.33 | 0.69 | 5.27 | 32.03 | 1.5 |
| 60 | 93.4 | T | 0.45 | 0.34 | 0.52 | 4.93 | 32.09 | 1.6 |
| 100 | 131.6 | T | 0.39 | 0.21 | 0.41 | 5.17 | 32.47 | 2.3 |
| 182 | 207.8 | 0.16 | 0.38 | 0.32 | 0.48 | 5.11 | 32.61 | 3.7 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1523 | 59 35.6N | 142 6.5W | 25 APR | 0505 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 83.1 | 0.17 | 1.28 | 0.12 | 0.83 | 5.85 | 31.97 | 1.5 |
| 20 | 88.6 | T | 0.58 | 0.11 | 0.42 | 5.15 | 32.04 | 1.5 |
| 59 | 102.6 | T | 0.50 | 0.11 | 0.32 | 5.24 | 32.18 | 1.8 |
| 98 | 227.5 | T | 0.35 | 0.15 | 0.27 | 5.26 | 32.40 | 4.1 |
| 172 | 110.8 | T | 0.36 | 0.11 | 0.27 | 5.15 | 32.73 | 2.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1524 | 59 35.6N | 142 6.5W | 25 APR | 0700 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 85.0 | T | 1.12 | 0.28 | 0.96 | 5.70 | 31.93 | 1.5 |
| 170 | 221.6 | T | 0.36 | 0.25 | 0.46 | 5.13 | 32.74 | 4.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1525 | 59 35.6N | 142 6.5W | 25 APR | 0900 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 86.4 | 0.15 | 1.24 | 0.25 | 0.96 | 5.77 | 31.93 | 1.5 |
| 19 | 106.2 | T | 0.54 | 0.27 | 0.54 | 5.22 | 32.08 | 1.9 |
| 60 | 108.4 | T | 0.46 | 0.16 | 0.41 | 5.29 | 32.24 | 1.9 |
| 100 | 96.6 | T | 0.44 | 0.12 | 0.33 | 4.91 | 32.52 | 1.7 |
| 173 | 210.6 | * | * | * | * | 5.18 | 32.75 | 3.8 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1526 | 59 35.6N | 142 6.5W | 25 APR | 1105 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 93.6 | 0.36 | 1.21 | 0.09 | 0.71 | 5.58 | 31.99 | 1.7 |
| 178 | 175.9 | * | 0.66 | 0.31 | 0.24 | 5.11 | 32.93 | 3.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1527 | 59 35.6N | 142 6.5W | 25 APR | 1305 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 91.9 | 0.45 | 1.21 | 0.10 | 0.79 | 5.63 | 31.96 | 1.6 |
| 20 | 99.0 | T | 0.54 | 0.17 | 0.41 | 5.18 | 32.04 | 1.7 |
| 58 | 110.8 | T | 0.44 | 0.18 | 0.40 | 5.31 | 32.19 | 2.0 |
| 98 | 126.2 | T | 0.37 | 0.23 | 0.31 | 5.23 | 32.41 | 2.2 |
| 173 | 226.6 | T | 0.40 | 0.11 | 0.30 | 5.15 | 32.73 | 4.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1528 | 59 35.6N | 142 6.5W | 25 APR | 1500 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 92.2 | T | 1.00 | 0.17 | 0.79 | 5.54 | 31.95 | 1.6 |
| 170 | 217.4 | T | 0.38 | 0.12 | 0.30 | 5.13 | 32.74 | 3.9 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1529 | 59 35.6N | 142 6.5W | 25 APR | 1700 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 91.5 | T | 0.91 | 0.17 | 0.59 | 5.51 | 32.02 | 1.6 |
| 19 | 95.2 | T | 0.65 | 0.35 | 0.46 | 5.34 | 32.00 | 1.7 |
| 59 | 108.3 | T | 0.45 | 0.32 | 0.29 | 5.22 | 32.16 | 1.9 |
| 98 | 134.8 | T | 0.42 | 0.14 | 0.38 | 5.30 | 32.40 | 2.4 |
| 167 | 228.7 | T | 0.38 | 0.17 | 0.33 | 5.17 | 32.76 | 4.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1530 | 59 35.6N | 142 6.5W | 25 APR | 1900 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 89.6 | T | 0.86 | 0.22 | 0.53 | 5.36 | * | * |
| 175 | 214.6 | T | 0.40 | 0.12 | 0.40 | 5.13 | 32.73 | 3.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| P1531 | 59 35.6N | 142 6.5W | 25 APR | 2100 | +10 | 186 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 96.7 | 0.15 | 0.90 | 0.19 | 0.53 | 5.40 | 31.95 | 1.7 |
| 19 | 96.8 | T | 0.83 | 0.19 | 0.55 | 5.40 | * | * |
| 59 | 102.1 | T | 0.47 | 0.18 | 0.32 | 5.40 | * | * |
| 100 | 137.6 | T | 0.39 | 0.21 | 0.33 | 5.29 | 32.43 | 2.4 |
| 175 | 177.0 | 0.15 | 0.48 | 0.10 | 0.22 | 5.22 | 33.16 | 3.2 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 59 53.3N 141 53.5W 23 APR 0450 +10 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|---|---|------|------|------|------|-------|---|
| 0 | * | * | 1.06 | 0.17 | 0.52 | 4.86 | 31.47 | * |
| 9 | * | * | 1.08 | 0.25 | 0.59 | 4.91 | 31.65 | * |
| 18 | * | * | 0.86 | 0.17 | 0.52 | 4.85 | 31.68 | * |
| 20 | * | * | 0.87 | 0.24 | 0.54 | 4.85 | 31.68 | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM017 59 53.4N 143 54.6W 21 APR 0450 +10 88

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 215.2 | 0.25 | 0.60 | 0.21 | T | 4.81 | 31.67 | 3.8 |
| 11 | 204.5 | 0.19 | 0.55 | 0.22 | 0.42 | 4.91 | 32.03 | 3.6 |
| 19 | 209.5 | 0.20 | 0.56 | 0.16 | 0.44 | 4.90 | 32.03 | 3.7 |
| 39 | 240.4 | 0.18 | 0.54 | 0.12 | 0.43 | 4.88 | 32.04 | 4.2 |
| 82 | 133.1 | 0.19 | 0.52 | 0.27 | 0.47 | 4.97 | 32.10 | 2.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 59 34.5N 143 59.4W 22 APR 1745 +10 1200

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|---|------|-------|-----|
| 0 | 79.2 | 0.23 | 1.30 | 0.13 | * | 5.95 | 31.93 | 1.4 |
| 19 | 81.5 | 0.19 | 0.47 | 0.12 | * | 5.15 | 32.23 | 1.4 |
| 59 | 89.8 | 0.20 | 0.37 | 0.12 | * | 5.08 | 32.49 | 1.6 |
| 99 | 142.6 | 0.23 | 0.35 | 0.13 | * | 4.93 | 32.84 | 2.5 |
| 203 | 104.4 | 0.22 | 0.37 | 0.14 | * | 5.45 | 33.55 | 1.9 |
| 400 | 77.8 | 0.33 | 0.17 | 0.16 | * | 4.22 | 33.97 | 1.3 |
| 599 | 36.4 | T | * | 0.10 | * | 3.89 | 34.12 | 0.6 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM019 | 59 13.9N | 143 57.7W | 22 APR | 1115 | +10 | 3933 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 44.6 | 0.13 | 0.76 | 0.08 | T | 4.86 | 32.54 | 0.7 |
| 20 | 76.1 | 0.19 | 0.54 | 0.12 | * | 4.54 | 32.66 | 1.3 |
| 60 | 75.3 | 0.19 | 0.48 | 0.11 | * | 3.82 | 32.78 | 1.3 |
| 100 | 77.3 | 0.16 | 0.39 | 0.12 | * | * | * | * |
| 200 | 84.4 | 0.17 | 0.42 | 0.12 | * | * | * | * |
| 400 | 56.2 | T | 0.23 | 0.05 | * | * | * | * |
| 600 | 30.5 | T | 0.15 | 0.10 | * | 3.70 | 34.18 | 0.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM020 | 59 16.5N | 144 41.1W | 20 APR | 1815 | +10 | 3000 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 76.9 | 0.25 | 1.02 | 0.16 | 0.42 | 5.85 | 32.20 | 1.4 |
| 21 | 80.4 | 0.22 | 0.54 | 0.13 | 0.31 | 4.93 | 32.50 | 1.4 |
| 59 | 81.6 | 0.23 | 0.54 | * | 0.25 | 4.65 | 32.58 | 1.4 |
| 101 | 87.2 | 0.22 | 0.41 | 0.24 | 0.19 | 4.61 | 32.91 | 1.5 |
| 196 | 97.0 | 0.21 | 0.40 | 0.26 | T | 5.15 | 33.78 | 1.7 |
| 393 | * | 0.20 | 0.16 | 0.20 | * | 4.09 | 34.00 | * |
| 600 | 27.9 | T | 0.09 | 0.13 | * | 3.72 | 34.14 | 0.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM021 | 59 36.5N | 144 37.0W | 20 APR | 2050 | +10 | 146 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 91.1 | 0.20 | 0.80 | 0.18 | 0.53 | 5.36 | 32.17 | 1.6 |
| 20 | 88.8 | 0.19 | 0.54 | 0.21 | 0.38 | 5.22 | 32.18 | 1.6 |
| 60 | 93.4 | 0.18 | 0.46 | 0.18 | 0.35 | 5.17 | 32.21 | 1.6 |
| 99 | 112.8 | 0.18 | 0.41 | 0.23 | 0.28 | 5.04 | 32.47 | 2.0 |
| 140 | 105.4 | 0.18 | 0.43 | 0.13 | 0.28 | 4.88 | 32.55 | 1.8 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM022 | 59 42.1N | 144 41.2W | 21 APR | 0120 | +10 | 130 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 132.6 | 0.22 | 0.98 | 0.16 | 0.61 | 5.22 | 32.05 | 2.3 |
| 20 | 89.6 | 0.18 | 0.55 | 0.12 | 0.39 | 5.08 | 32.11 | 1.6 |
| 60 | 95.4 | 0.17 | 0.52 | 0.17 | 0.42 | 5.02 | 32.14 | 1.7 |
| 122 | 97.1 | 0.18 | 0.52 | 0.20 | 0.40 | 5.02 | 32.14 | 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM023 | 59 52.4N | 144 43.9W | 19 APR | 2120 | +10 | 139 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 308.9 | 0.32 | 0.62 | * | * | 4.47 | 31.64 | 5.4 |
| 19 | 325.0 | 0.32 | 0.54 | * | * | 4.43 | 31.67 | 5.7 |
| 58 | 325.4 | 0.28 | 0.55 | 0.15 | 0.33 | 4.47 | 31.80 | 5.7 |
| 97 | 270.6 | 0.22 | 0.56 | * | * | 4.59 | 31.94 | 4.7 |
| 131 | 256.7 | 0.23 | 0.58 | * | * | 4.59 | 32.00 | 4.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM024 | 60 3.2N | 144 45.5W | 19 APR | 1425 | +10 | 203 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 181.2 | 0.31 | 0.83 | * | * | 4.22 | 31.76 | 3.1 |
| 20 | 192.2 | 0.26 | 0.70 | * | * | 4.11 | 31.78 | 3.3 |
| 60 | 278.2 | 0.26 | 0.74 | * | * | 4.09 | 31.88 | 4.8 |
| 100 | 232.8 | 0.25 | 0.66 | * | * | 4.16 | 32.05 | 4.0 |
| 190 | 189.3 | 0.24 | 0.66 | * | * | 4.74 | 32.43 | 3.3 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 60 7.0N 144 50.0W 19 APR 1015 +10 70

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 225.7 T 0.58 * * 4.22 31.73 3.9
10 226.2 T 0.52 * * 4.20 31.74 3.9
19 227.3 T 0.51 * * 4.18 31.74 3.9
40 280.0 T 0.53 * * 4.12 31.85 4.8
60 268.2 T 0.54 * * 4.18 31.89 4.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM027 60 0.6N 145 7.9W 19 APR 0830 +10 86

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 217.1 T 0.57 * * 4.04 31.78 3.7
10 220.2 T 0.55 * * 4.02 31.67 3.8
20 221.9 T 0.52 * * 4.02 31.86 3.8
40 221.7 T 0.49 * * 4.03 31.68 3.8
80 241.4 T 0.51 T 0.32 4.06 31.70 4.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM028 59 57.6N 145 7.8W 19 APR 1735 +10 143

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 180.7 0.27 0.76 * * 4.22 31.79 3.1
17 177.1 0.26 0.79 * * 4.24 31.83 3.1
57 179.4 0.23 0.65 0.27 0.41 4.09 31.83 3.1
96 249.9 0.26 0.58 * * 4.11 32.02 4.3
135 288.7 0.25 0.62 0.22 0.37 4.29 31.71 5.0

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM029 59 46.9N 145 11.6W 19 APR 2340 +10 165

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 285.1 0.24 0.58 * * 4.49 31.89 5.0
19 271.2 0.22 0.55 * * 4.54 31.91 4.7
60 259.2 0.23 0.58 * * 4.63 31.97 4.5
100 200.0 0.21 0.50 * * 4.38 32.03 3.5
155 389.6 0.23 0.45 * * 4.36 32.16 6.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM030 59 37.5N 145 12.6W 20 APR 0250 +10 117

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 137.9 0.21 0.71 * * 4.70 32.02 2.4
19 141.9 0.20 0.66 * * 4.77 32.04 2.5
58 160.5 0.18 0.55 * * 4.72 32.08 2.8
109 186.1 0.26 0.55 * * 4.56 32.12 3.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM031 59 18.4N 145 17.2W 20 APR 0635 +10 2000

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 81.1 0.22 0.63 * * 4.93 32.47 1.4
20 80.6 0.19 0.63 * * 4.91 32.48 1.4
60 100.5 0.22 0.59 * * 4.60 32.72 1.7
98 101.9 0.24 0.55 * * 5.04 33.14 1.8
196 112.0 0.24 0.56 0.28 0.14 5.54 33.74 2.0

CRUISE NUMBER
RP-4-D1-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM032 | 59 40.4N | 145 53.0W | 18 APR | 0840 | +10 | 77 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 218.6 | T | 0.49 | T | 0.32 | 4.56 | 32.10 | 3.8 |
| 10 | 218.4 | T | 0.46 | T | 0.31 | 4.56 | 32.09 | 3.8 |
| 19 | 223.7 | T | 0.49 | 0.08 | 0.24 | 4.56 | 32.09 | 3.9 |
| 38 | 228.1 | T | 0.53 | T | 0.24 | 4.56 | 32.11 | 4.0 |
| 70 | 231.5 | T | 0.50 | T | 0.26 | 4.57 | 32.11 | 4.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM033 | 59 51.7N | 145 54.1W | 18 APR | 1035 | +10 | 104 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 154.6 | T | 0.53 | T | 0.31 | 4.25 | 31.96 | 2.7 |
| 20 | 155.4 | T | 0.48 | T | 0.24 | 4.25 | 32.05 | 2.7 |
| 69 | 201.2 | T | 0.45 | * | 0.24 | 4.24 | 32.13 | 3.5 |
| 92 | 188.9 | T | 0.45 | * | * | 4.31 | 32.13 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM034 | 60 0.6N | 145 50.4W | 18 APR | 1545 | +10 | 77 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 134.0 | T | 0.51 | * | * | 4.22 | 31.99 | 2.3 |
| 10 | 134.1 | T | 0.51 | * | 0.38 | 4.22 | 32.01 | 2.3 |
| 20 | 132.2 | T | 0.51 | 0.17 | 0.32 | 4.22 | 32.00 | 2.3 |
| 40 | 133.2 | T | 0.49 | 0.14 | 0.35 | 4.27 | 32.03 | 2.3 |
| 74 | 138.2 | T | 0.49 | 0.17 | 0.31 | 4.29 | 32.10 | 2.4 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM035 | 60 10.5N | 145 58.9W | 18 APR | 1845 | +10 | 106 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 157.6 | T | 0.53 | * | * | 3.93 | 31.87 | 2.7 |
| 19 | 156.0 | T | 0.50 | 0.20 | 0.29 | 3.93 | 31.87 | 2.7 |
| 36 | 184.0 | T | 0.45 | * | * | 3.73 | 31.88 | 3.1 |
| 58 | 174.2 | T | 0.46 | 0.14 | 0.34 | 3.75 | 31.89 | 3.0 |
| 95 | 151.9 | T | 0.48 | 0.16 | 0.38 | 3.93 | 32.00 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM036 | 60 11.0N | 145 32.4W | 19 APR | 0210 | +10 | 69 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 261.1 | T | 0.57 | * | * | 3.82 | 31.81 | 4.5 |
| 20 | 254.4 | T | 0.46 | * | * | 3.95 | 31.70 | 4.4 |
| 40 | 280.3 | T | 0.47 | * | * | 3.89 | 31.70 | 4.8 |
| 61 | 326.9 | T | 0.49 | * | * | 3.89 | 31.69 | 5.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM037 | 60 9.3N | 145 22.3W | 19 APR | 0605 | +10 | 58 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 210.1 | T | 0.44 | * | * | 4.00 | 31.81 | 3.6 |
| 10 | 204.4 | T | 0.46 | * | * | 4.02 | 31.70 | 3.5 |
| 20 | 193.6 | T | 0.46 | * | * | 4.04 | 31.70 | 3.3 |
| 53 | 188.3 | T | 0.46 | 0.18 | 0.31 | 4.05 | 31.69 | 3.2 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM038 60 16.2N 145 44.6W 18 APR 2045 +10 47

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|---|------|------|------|------|-------|-----|
| 0 | 310.6 | T | 0.53 | 0.09 | 0.33 | 3.82 | 31.47 | 5.3 |
| 10 | 308.0 | T | 0.49 | * | * | 3.82 | 31.48 | 5.3 |
| 19 | 286.8 | T | 0.50 | * | * | 3.80 | 31.54 | 4.9 |
| 43 | 221.3 | T | 0.51 | T | 0.29 | 3.80 | 31.61 | 3.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM039 60 18.3N 145 59.3W 18 APR 2215 +10 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|---|------|------|------|------|-------|-----|
| 1 | 290.6 | T | 0.48 | * | * | 3.73 | 31.42 | 5.0 |
| 10 | 289.6 | T | 0.48 | * | * | 3.73 | 31.41 | 4.9 |
| 19 | 283.4 | T | 0.47 | * | * | 3.73 | 31.43 | 4.8 |
| 35 | 291.5 | T | 0.50 | 0.05 | 0.32 | 3.77 | 31.43 | 5.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 60 31.8N 146 46.7W 16 APR 2145 +10 396

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|---|------|------|------|------|-------|-----|
| 0 | 163.8 | T | 0.49 | 0.08 | 0.31 | 3.48 | 31.84 | 2.8 |
| 19 | 162.3 | T | 0.48 | 0.08 | 0.31 | 3.43 | 31.86 | 2.7 |
| 58 | 172.0 | T | 0.46 | 0.11 | 0.28 | 3.37 | 31.88 | 2.9 |
| 99 | 213.5 | T | 0.36 | 0.07 | 0.26 | 3.52 | 31.95 | 3.6 |
| 196 | 232.3 | T | 0.35 | 0.05 | 0.29 | 4.02 | 32.16 | 4.0 |
| 382 | 114.6 | T | 0.54 | 0.22 | 0.25 | 4.99 | 32.86 | 2.0 |

CRUISE NUMBER
RP-4-D1-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM043 | 60 21.7N | 146 52.9W | 17 APR | 0600 | +10 | 281 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 188.8 | 0.23 | 0.45 | 0.19 | 0.26 | 3.59 | 31.84 | 3.2 |
| 11 | 184.2 | T | 0.47 | 0.11 | 0.28 | 3.57 | 31.85 | 3.1 |
| 59 | 194.8 | T | 0.49 | 0.11 | 0.28 | 3.57 | 31.89 | 3.3 |
| 98 | * | * | 0.35 | 0.08 | 0.25 | 3.59 | 31.93 | * |
| 146 | 199.4 | T | 0.43 | 0.07 | 0.32 | 3.59 | 31.99 | 3.4 |
| 277 | 201.5 | T | 0.42 | 0.14 | 0.29 | 4.38 | 32.33 | 3.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM044 | 60 15.0N | 146 48.9W | 17 APR | 1045 | +10 | 222 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 196.5 | T | 0.57 | 0.09 | 0.31 | 3.94 | 31.78 | 3.4 |
| 19 | 183.2 | T | 0.54 | 0.16 | 0.42 | 3.86 | 31.83 | 3.1 |
| 59 | 180.7 | T | 0.50 | 0.13 | 0.32 | 3.84 | 31.82 | 3.1 |
| 98 | 185.4 | T | 0.47 | 0.20 | 0.35 | 3.82 | 31.85 | 3.2 |
| 147 | 191.0 | T | 0.48 | 0.17 | 0.47 | 3.79 | 31.86 | 3.3 |
| 214 | 213.8 | T | 0.55 | 0.20 | 0.41 | 3.91 | 32.04 | 3.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM045 | 60 4.0N | 146 43.5W | 17 APR | 1615 | +10 | 124 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 249.9 | T | 0.63 | 0.24 | 0.48 | * | * | * |
| 18 | 282.3 | 0.41 | 0.49 | 0.11 | 0.22 | * | * | * |
| 38 | 283.0 | 0.23 | 0.48 | 0.15 | 0.27 | * | * | * |
| 57 | 294.4 | T | 0.49 | 0.22 | 0.35 | * | * | * |
| 96 | 398.2 | T | 0.52 | 0.07 | 0.25 | * | * | * |
| 115 | * | T | 0.50 | 0.19 | 0.33 | * | * | * |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM046 59 55.2N 146 35.8W 17 APR 1830 +10 66

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|---|------|---|---|------|-------|-----|
| 0 | 121.9 | T | 0.52 | * | * | 4.43 | 32.08 | 2.1 |
| 10 | 124.5 | T | 0.49 | * | * | 4.43 | 32.08 | 2.1 |
| 24 | 125.1 | T | 0.47 | * | * | 4.43 | 32.07 | 2.2 |
| 38 | 124.4 | T | 0.46 | * | * | 4.38 | 32.09 | 2.1 |
| 57 | 121.6 | T | 0.51 | * | * | 4.40 | 32.09 | 2.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM047 59 45.2N 146 34.2W 17 APR 2030 +10 77

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|---|------|---|---|------|-------|-----|
| 1 | 207.6 | T | 0.48 | * | * | 4.45 | 32.10 | 3.6 |
| 9 | 208.4 | T | 0.50 | * | * | 4.45 | 32.10 | 3.6 |
| 19 | 206.7 | T | 0.53 | * | * | 4.45 | 32.08 | 3.6 |
| 38 | 208.0 | T | 0.45 | * | * | 4.40 | 32.11 | 3.6 |
| 65 | 205.0 | T | 0.45 | * | * | 4.40 | 32.10 | 3.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM048 59 14.0N 146 17.0W 18 APR 0550 +10 360

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|---|------|------|------|------|-------|-----|
| 0 | 94.9 | T | 0.53 | * | 0.29 | 4.90 | 32.20 | 1.6 |
| 21 | 102.1 | T | 0.51 | * | 0.39 | 5.02 | 32.33 | 1.8 |
| 55 | 107.0 | T | 0.47 | T | 0.36 | 5.04 | 32.41 | 1.9 |
| 98 | 81.2 | T | 0.49 | * | 0.26 | 4.99 | 32.46 | 1.4 |
| 193 | 93.9 | T | 0.46 | 0.07 | 0.22 | 5.52 | 33.38 | 1.7 |
| 354 | 76.8 | T | 0.32 | 0.10 | T | 4.49 | 31.93 | 1.3 |

CRUISE NUMBER
RP-4-DI-76A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
13 APR-30 APR 1976

STATION PM049 LATITUDE 59 46.2N LONGITUDE 147 4.4W DATE 16 APR TIME 1530 GMT +10 BOTTOM DEPTH 210

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 145.2 | T | 0.57 | 0.09 | 0.33 | 4.47 | 32.13 | 2.5 |
| 20 | 147.7 | T | 0.48 | 0.09 | 0.32 | 4.41 | 32.13 | 2.6 |
| 60 | 167.1 | T | 0.49 | 0.08 | 0.27 | 4.38 | 32.13 | 2.9 |
| 100 | 310.8 | T | 0.41 | 0.08 | 0.28 | 4.11 | 32.15 | 5.4 |
| 161 | 330.8 | T | 0.42 | 0.09 | 0.29 | 4.27 | 32.24 | 5.8 |

STATION PM050 LATITUDE 60 4.3N LONGITUDE 147 5.6W DATE 17 APR TIME 1315 GMT +10 BOTTOM DEPTH 274

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | * | T | 0.57 | 0.08 | * | 3.84 | 31.89 | * |
| 19 | 205.7 | T | 0.52 | 0.20 | 0.43 | 3.89 | 31.96 | 3.5 |
| 59 | 200.1 | T | 0.53 | 0.21 | * | 3.93 | 31.98 | 3.4 |
| 95 | 216.8 | T | 0.49 | 0.11 | 0.31 | 4.27 | 32.09 | 3.8 |
| 254 | 396.6 | T | 0.68 | 0.31 | 0.92 | 4.20 | 32.14 | 6.9 |

STATION PM051 LATITUDE 59 50.5N LONGITUDE 148 7.8W DATE 16 APR TIME 1010 GMT +10 BOTTOM DEPTH 132

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 216.1 | 0.59 | 0.46 | 0.21 | 0.27 | 3.66 | 32.00 | 3.7 |
| 11 | 217.9 | 0.59 | 0.45 | 0.18 | 0.28 | 3.64 | 32.01 | 3.7 |
| 20 | 217.1 | 0.59 | 0.43 | 0.22 | 0.32 | 3.64 | 32.01 | 3.7 |
| 38 | 216.4 | 0.58 | 0.48 | 0.21 | 0.24 | 3.66 | 31.99 | 3.7 |
| 118 | 302.4 | 0.85 | 0.47 | 0.37 | 0.50 | 3.80 | 32.03 | 5.2 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM001 | 59 50.2N | 149 31.0W | 29 JUL | 1215 | + 9 | 208 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 2 | 201.2 | 0.63 | 3.12 | 0.37 | 1.48 | 12.52 | 26.36 | 4.1 |
| 11 | 236.2 | 1.94 | 3.38 | 0.63 | 1.67 | 11.86 | 30.58 | 4.9 |
| 20 | 222.2 | 1.04 | 3.30 | 0.62 | 1.14 | 10.86 | 31.58 | 4.5 |
| 60 | 339.9 | 0.94 | 1.17 | 0.38 | 0.34 | 5.44 | 31.78 | 6.1 |
| 102 | 291.5 | 0.38 | 0.71 | 0.18 | 0.22 | 5.12 | 32.07 | 5.2 |
| 154 | 333.2 | 0.39 | 0.49 | 0.18 | 0.21 | 4.70 | 32.48 | 5.9 |
| 202 | 394.5 | 0.30 | 0.63 | 0.16 | 0.27 | 5.06 | 32.84 | 7.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM002 | 59 23.9N | 149 9.2W | 29 JUL | 1820 | + 9 | 197 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 98.6 | 0.43 | 2.16 | 0.42 | 0.83 | 11.95 | 31.61 | 2.0 |
| 20 | 123.5 | 0.41 | 2.29 | 0.38 | 0.44 | 9.43 | 32.15 | 2.4 |
| 62 | 158.2 | 0.28 | 0.67 | 0.18 | 0.23 | 6.00 | 32.35 | 2.9 |
| 102 | 388.6 | 0.28 | 0.50 | 0.15 | 0.23 | 5.01 | 32.50 | 6.9 |
| 153 | 402.8 | 0.24 | 0.57 | 0.15 | 0.21 | 5.05 | 32.64 | 7.2 |
| 193 | 312.4 | 0.21 | 0.55 | 0.14 | T | 5.08 | 32.90 | 5.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM003 | 58 59.5N | 148 38.4W | 29 JUL | 2100 | + 9 | 238 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 68.8 | 0.30 | 2.16 | 0.31 | 0.79 | 12.80 | 32.11 | 1.4 |
| 21 | 92.5 | 0.37 | 2.14 | 0.36 | 0.51 | 10.04 | 32.03 | 1.8 |
| 62 | 100.5 | 0.25 | 0.99 | 0.20 | 0.21 | 5.92 | 32.65 | 1.8 |
| 102 | 104.9 | 0.24 | 0.68 | 0.16 | 0.15 | 5.04 | 32.76 | 1.8 |
| 153 | 128.2 | 0.23 | 0.44 | 0.15 | 0.14 | 4.94 | 33.20 | 2.3 |
| 229 | 102.3 | 0.23 | * | 0.11 | T | 5.07 | 33.72 | 1.8 |

CRUISE NUMBER
RP-4-DI-768-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 58 23.5N | 148 7.7W | 30 JUL | 0345 | + 9 | 1360 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 96.9 | 0.51 | 2.35 | 0.43 | 0.72 | 12.49 | 31.77 | 2.0 |
| 62 | 151.4 | 0.29 | 1.04 | 0.20 | 0.70 | 6.86 | 32.30 | 2.8 |
| 101 | 145.2 | 0.25 | 0.76 | 0.16 | 0.26 | 5.93 | 32.58 | 2.6 |
| 203 | 93.1 | 0.20 | 0.39 | 0.14 | 0.08 | 5.41 | 33.76 | 1.7 |
| 406 | 67.0 | 0.28 | 0.12 | 0.09 | 0.21 | 4.05 | 34.05 | 1.1 |
| 608 | 33.6 | * | 0.07 | T | 0.21 | 3.72 | 34.13 | 0.5 |
| 808 | 18.3 | 0.28 | T | T | T | 3.48 | 34.27 | 0.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM007 | 58 45.9N | 141 12.3W | 21 JUL | 1140 | + 9 | 1485 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 79.1 | 0.70 | 2.97 | 0.37 | 1.24 | 14.09 | 31.58 | 1.7 |
| 22 | 93.5 | 0.56 | 2.55 | 0.44 | 0.80 | 9.55 | 31.87 | 1.8 |
| 62 | 304.8 | 0.69 | 1.13 | 0.32 | 0.34 | 6.26 | 32.17 | 5.6 |
| 102 | 231.6 | 0.38 | 0.88 | 0.23 | 0.29 | 6.02 | 32.55 | 4.2 |
| 197 | 212.1 | 0.43 | 0.49 | 0.20 | 0.12 | 5.79 | 33.67 | 3.9 |
| 404 | 83.0 | 0.10 | 0.21 | 0.37 | 0.08 | 4.26 | 34.01 | 1.4 |
| 602 | 64.3 | T | 0.08 | 0.14 | T | 3.93 | 34.05 | 1.1 |
| 802 | 37.8 | T | 0.11 | 0.14 | 0.06 | 6.64 | 34.21 | 0.7 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM008 59 17.3N 140 30.3W 21 JUL 1825 + 9 133

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

7 78.7 0.46 3.14 0.34 1.43 14.13 31.47 1.7
22 92.1 0.56 3.12 0.50 0.82 12.53 31.60 1.9
65 121.4 0.40 1.51 0.25 0.52 6.60 32.28 2.2
101 245.9 0.35 0.97 0.21 0.25 5.96 32.56 4.5
126 518.5 0.27 0.82 0.17 0.26 5.60 32.59 9.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM009 59 34.5N 140 5.8W 21 JUL 2015 + 9 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 1471.2 9.95 2.35 3.97 0.93 10.23 28.80 29.3
12 183.5 1.36 1.57 0.37 0.25 7.49 31.82 3.4
21 236.4 0.34 1.10 0.22 0.26 6.36 32.01 4.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM010 59 38.5N 140 57.0W 21 JUL 2320 + 9 71

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 338.2 2.07 2.52 1.11 1.25 13.62 27.58 7.2
12 2075.1 12.56 1.58 5.90 0.62 6.45 29.87 38.0
22 751.8 3.53 1.59 1.90 0.44 7.20 31.49 14.1
39 243.1 1.18 1.28 0.51 0.22 6.94 31.88 4.5
64 299.3 0.35 1.06 0.23 0.29 6.20 32.11 5.5

CRUISE NUMBER
RP-4-DI-768-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM011 | 59 25.4N | 141 13.7W | 22 JUL | 0230 | + 9 | 331 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 71.7 | 0.38 | 2.72 | 0.29 | 1.38 | 14.85 | 29.61 | 1.5 |
| 28 | 107.9 | 0.62 | 2.07 | 0.46 | 0.22 | 8.45 | 31.81 | 2.1 |
| 56 | 151.0 | 0.31 | 0.93 | 0.20 | 0.24 | 6.01 | 32.26 | 2.7 |
| 103 | 360.3 | 0.27 | 0.75 | 0.18 | 0.28 | 5.38 | 32.63 | 6.5 |
| 153 | 183.3 | 0.29 | 0.53 | 0.18 | 0.17 | 5.41 | 33.18 | 3.3 |
| 322 | 107.1 | 0.19 | 0.35 | 0.14 | 0.08 | 4.61 | 33.96 | 1.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM012 | 59 14.0N | 141 24.2W | 22 JUL | 0625 | + 9 | 340 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 4 | 67.5 | 0.29 | 2.32 | 0.38 | 1.11 | 14.35 | 31.14 | 1.5 |
| 23 | 107.9 | 0.53 | 1.91 | 0.41 | 0.14 | 8.05 | 32.10 | 2.0 |
| 59 | 248.0 | 0.33 | 1.11 | 0.21 | 0.26 | 6.42 | 32.17 | 4.6 |
| 105 | 169.9 | 0.31 | 0.96 | 0.19 | 0.30 | 6.20 | 32.34 | 3.1 |
| 152 | 169.1 | 0.26 | 0.64 | 0.16 | 0.22 | 5.44 | 32.96 | 3.0 |
| 336 | 95.5 | T | 0.35 | 0.14 | 0.09 | 4.63 | 33.91 | 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM013 | 59 1.5N | 141 40.5W | 22 JUL | 0930 | + 9 | 1100 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 23 | 92.9 | 0.42 | 1.34 | 0.25 | 0.16 | 7.21 | 31.86 | 1.7 |
| 40 | 98.3 | 0.28 | 0.96 | 0.21 | 0.35 | 6.72 | 31.98 | 1.8 |
| 62 | 171.8 | 0.30 | 0.97 | 0.22 | 0.32 | 6.51 | 32.20 | 3.2 |
| 106 | 226.5 | 0.31 | 1.13 | 0.20 | 0.32 | 6.06 | 32.51 | 4.1 |
| 206 | 130.6 | 0.23 | 0.47 | 0.19 | 0.18 | 5.61 | 33.35 | 2.3 |
| 407 | 63.6 | * | 0.33 | 0.13 | 0.10 | 4.16 | 33.89 | 1.1 |
| 504 | 58.3 | 2.24 | 0.07 | 0.15 | 0.08 | 4.02 | 34.11 | 1.0 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM014 59 17.2N 142 44.5W 22 JUL 1430 + 9 2000

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 69.6 0.41 2.64 0.40 1.29 13.50 32.03 1.5
20 72.9 0.36 2.57 0.46 1.23 11.89 32.24 1.5
61 101.0 0.30 0.94 0.21 0.36 6.39 32.54 1.8
100 106.0 0.28 0.66 0.20 0.30 5.69 32.89 1.9
200 102.3 0.24 0.46 0.18 0.10 5.35 33.87 1.8
407 60.1 0.09 0.23 0.10 T 4.18 33.99 1.0
602 38.0 T 0.07 0.07 0.14 3.85 34.16 0.6
808 17.9 0.21 0.19 0.10 T 3.41 34.26 0.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM015 59 34.9N 142 9.2W 22 JUL 1750 + 9 184

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 70.4 0.34 2.71 0.28 1.19 14.09 31.40 1.5
24 75.2 0.37 2.67 0.37 0.99 10.08 31.76 1.5
59 162.0 0.27 0.88 0.16 0.28 6.04 32.01 2.9
101 245.9 0.28 0.75 0.30 0.31 5.76 32.47 4.5
177 150.6 0.28 0.51 0.17 0.15 5.45 33.51 2.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 59 48.8N 142 5.2W 22 JUL 2010 + 9 86

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 524.5 1.75 2.87 1.92 1.35 12.70 28.25 11.0
12 166.4 1.01 2.94 0.75 0.76 11.03 31.42 3.4
22 135.2 0.36 1.31 0.27 0.30 6.91 31.94 2.5
41 242.3 0.30 0.99 0.20 0.29 6.19 32.05 4.4
79 231.9 0.29 0.83 0.21 0.29 5.91 32.17 4.2

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM017 59 53.8N 143 54.3W 23 JUL 0200 + 9 84

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 2 | 305.6 | 0.87 | 2.15 | 0.83 | 1.17 | 13.08 | 28.78 | 6.5 |
| 21 | 110.4 | 0.54 | 2.34 | 0.45 | 0.43 | 9.16 | 31.97 | 2.1 |
| 41 | 408.9 | 0.34 | 1.00 | 0.25 | 0.31 | 6.28 | 32.04 | 7.5 |
| 61 | 254.8 | 0.35 | 0.81 | 0.19 | 0.28 | 6.07 | 32.16 | 4.6 |
| 77 | 639.5 | 0.28 | 0.85 | 0.21 | 0.27 | 6.02 | 32.19 | 11.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 59 34.0N 143 56.7W 23 JUL 0700 + 9 940

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 2 | 63.8 | 0.30 | 2.10 | 0.23 | 0.94 | 13.65 | 31.59 | 1.4 |
| 22 | 87.8 | 0.42 | 1.41 | 0.29 | 0.10 | 7.46 | 31.92 | 1.6 |
| 62 | 285.7 | 0.30 | 0.99 | 0.18 | 0.27 | 6.29 | 32.11 | 5.2 |
| 102 | 266.8 | 0.27 | 0.88 | 0.18 | 0.31 | 6.11 | 32.31 | 4.9 |
| 205 | 131.7 | 0.24 | 0.48 | 0.15 | 0.13 | 5.45 | 33.41 | 2.4 |
| 402 | 83.2 | 0.13 | 0.28 | 0.11 | 0.10 | 4.33 | 33.96 | 1.4 |
| 607 | 50.1 | T | 0.13 | 0.09 | T | 3.89 | 34.13 | 0.8 |
| 809 | 31.6 | T | 0.11 | 0.06 | T | 3.55 | 34.25 | 0.5 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM019 | 59 14.3N | 144 0.1W | 23 JUL | 1200 | + 9 | 2129 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 63.2 | 0.32 | 2.58 | 0.29 | 1.27 | 12.93 | 32.46 | 1.3 |
| 27 | 76.2 | 0.38 | 2.30 | 0.46 | 0.96 | 8.60 | 32.69 | 1.5 |
| 60 | 73.6 | 0.27 | 0.98 | 0.21 | 0.18 | 5.60 | 32.70 | 1.3 |
| 101 | 84.5 | 0.25 | 0.53 | 0.14 | 0.19 | 5.17 | 33.02 | 1.5 |
| 207 | 78.5 | T | 0.41 | 0.15 | 0.08 | 4.99 | 33.87 | 1.4 |
| 405 | 60.1 | 0.09 | * | 0.08 | T | 3.93 | 34.00 | 1.0 |
| 606 | 28.9 | T | * | 0.10 | T | 3.65 | 34.13 | 0.5 |
| 811 | 12.4 | 0.15 | 0.14 | 0.12 | 0.10 | 3.33 | 34.30 | 0.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM020 | 59 15.0N | 144 42.2W | 23 JUL | 1715 | + 9 | 2000 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 4 | 70.3 | 0.57 | 2.71 | 0.41 | 1.30 | 13.33 | 32.24 | 1.5 |
| 21 | 74.9 | 0.39 | 2.27 | 0.47 | 0.90 | 9.21 | 32.37 | 1.4 |
| 62 | 100.0 | 0.25 | 0.76 | 0.17 | 0.28 | 6.11 | 32.62 | 1.8 |
| 102 | 75.2 | 0.23 | 0.62 | 0.14 | 0.21 | 4.53 | 32.84 | 1.3 |
| 203 | 85.0 | 0.16 | 0.45 | 0.12 | 0.07 | 5.14 | 33.89 | 1.5 |
| 405 | 52.0 | T | * | 0.08 | T | 3.98 | 34.06 | 0.9 |
| 606 | 23.3 | T | 0.19 | 0.08 | T | 3.64 | 34.22 | 0.4 |
| 808 | 15.5 | T | 0.19 | 0.07 | 0.11 | 3.35 | 34.28 | 0.2 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM021 59 36.6N 144 35.9W 23 JUL 2020 + 9 146

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 3 | 62.2 | 0.27 | 2.22 | 0.25 | 1.00 | 13.70 | 31.62 | 1.3 |
| 21 | 85.2 | 0.52 | 2.58 | 0.43 | 0.59 | 7.92 | 32.00 | 1.6 |
| 40 | 128.9 | 0.31 | 1.03 | 0.21 | 0.30 | 6.63 | 31.93 | 2.4 |
| 61 | 142.0 | 0.25 | 0.90 | 0.16 | 0.29 | 6.29 | 32.22 | 2.6 |
| 100 | 245.9 | 0.24 | 0.74 | 0.16 | 0.29 | 5.84 | 32.35 | 4.5 |
| 138 | 202.9 | 0.25 | 0.73 | 0.18 | 0.31 | 5.49 | 32.59 | 3.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM022 59 41.6N 144 42.4W 24 JUL 0000 + 9 139

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 2 | 149.6 | 0.48 | 2.25 | 0.38 | 1.00 | 13.34 | 31.07 | 3.2 |
| 21 | 155.6 | 0.49 | 2.21 | 0.40 | 0.47 | 9.87 | 31.87 | 3.1 |
| 62 | 208.6 | 0.31 | 0.86 | 0.18 | 0.27 | 6.13 | 32.13 | 3.8 |
| 102 | 488.3 | 0.50 | 0.77 | 0.25 | 0.26 | 5.94 | 32.26 | 8.9 |
| 133 | 524.5 | 0.36 | 0.76 | 0.19 | 0.26 | 5.83 | 32.38 | 9.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM023 59 52.8N 144 43.2W 24 JUL 0255 + 9 150

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|------|
| 1 | 170.1 | 0.52 | 1.89 | 0.42 | 0.94 | 13.27 | 28.92 | 3.6 |
| 21 | 264.7 | 0.58 | 2.52 | 0.54 | 0.75 | 10.67 | 31.26 | 5.4 |
| 61 | 264.7 | 0.33 | 0.80 | 0.19 | 0.24 | 5.52 | 31.92 | 4.8 |
| 102 | 756.8 | 0.30 | 0.77 | 0.17 | 0.25 | 5.45 | 32.24 | 13.7 |
| 138 | 215.2 | 0.28 | 0.60 | 0.16 | 0.24 | 5.13 | 32.68 | 3.8 |

CRUISE NUMBER
RP-4-DI-768-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM024 60 3.2N 144 47.4W 24 JUL 0545 + 9 196

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 206.0 0.47 1.96 0.38 1.04 13.53 28.63 4.4
21 284.6 0.66 2.78 0.56 0.87 10.93 30.58 5.8
62 930.1 0.35 1.07 0.25 0.33 5.83 31.99 17.0
102 456.6 0.26 0.65 0.14 0.29 5.01 32.19 8.1
188 171.1 0.34 0.61 0.21 0.22 5.03 32.98 3.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 60 8.2N 144 49.5W 24 JUL 0815 + 9 50

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 183.1 0.49 2.22 0.45 1.43 13.85 30.78 4.0
11 254.1 0.63 2.49 0.57 1.28 13.67 29.06 5.4
20 365.6 0.66 2.70 0.65 0.99 11.89 30.67 7.6
41 632.7 0.46 1.45 0.34 0.41 7.27 31.87 11.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM027 60 7.1N 145 8.8W 24 JUL 1050 + 9 77

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 107.0 0.34 2.36 0.31 1.19 13.56 29.74 2.3
10 232.2 0.62 2.60 0.51 1.04 12.51 30.62 4.9
21 386.6 0.59 2.25 0.54 0.64 9.40 31.45 7.7
41 521.7 0.39 1.18 0.28 0.39 6.59 31.90 9.7
67 628.9 0.29 0.97 0.19 0.29 5.94 32.13 11.5

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM028 59 58.6N 145 4.5W 24 JUL 1540 + 9 140

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 110.8 0.41 3.11 0.38 1.54 14.06 30.04 2.4
21 259.0 0.55 2.00 0.43 0.55 8.62 31.54 5.0
62 457.8 0.30 0.87 0.18 0.24 5.41 32.04 8.2
102 754.2 0.29 0.68 0.15 0.27 5.15 32.22 13.5
137 334.3 0.30 0.67 0.14 0.24 5.15 32.56 6.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM029 59 48.5N 145 12.3W 24 JUL 1820 + 9 159

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 333.3 0.90 2.76 0.72 1.40 13.46 28.61 7.1
21 324.6 0.80 2.48 0.61 0.95 12.60 29.96 6.8
62 205.5 0.28 0.96 0.21 0.19 6.32 32.14 3.8
102 458.9 0.25 0.75 0.15 0.14 5.86 32.35 8.4
146 278.3 0.27 0.65 0.15 0.26 5.17 32.59 5.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM030 59 36.0N 145 13.9W 25 JUL 0525 + 9 117

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 105.9 0.58 2.48 0.39 1.16 13.41 31.12 2.3
12 70.1 0.30 2.21 0.28 0.87 13.32 31.63 1.5
21 262.0 0.46 1.93 0.43 0.36 8.54 31.78 5.1
61 648.4 0.29 0.78 0.19 0.25 5.72 32.04 11.8
103 431.9 0.26 0.70 0.19 0.27 5.63 32.46 7.8

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM031 | 59 18.6N | 145 18.2W | 25 JUL | 1045 | + 9 | 2195 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 63.2 | 0.31 | 2.44 | 0.47 | 1.11 | 14.06 | 31.83 | 1.4 |
| 21 | 96.7 | 0.43 | 1.64 | 0.41 | 0.26 | 8.92 | 31.92 | 1.9 |
| 62 | 92.8 | 0.31 | 1.23 | 0.33 | 0.35 | 7.31 | 32.43 | 1.7 |
| 103 | 83.3 | 0.30 | 0.71 | 0.37 | * | 5.58 | 32.72 | 1.5 |
| 204 | 91.7 | 0.25 | 0.35 | 0.15 | T | 5.53 | 33.85 | 1.6 |
| 406 | 73.2 | 0.14 | 0.12 | 0.12 | T | 4.21 | 34.09 | 1.3 |
| 606 | 29.6 | 0.10 | 0.07 | 0.10 | T | 3.73 | 34.19 | 0.5 |
| 808 | 27.5 | T | T | 0.07 | T | 3.41 | 34.26 | 0.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM032 | 59 39.7N | 145 56.2W | 27 JUL | 0630 | + 9 | 76 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 4 | 113.1 | 0.33 | 2.10 | 0.34 | 0.81 | 12.95 | 31.22 | 2.4 |
| 13 | 125.2 | 0.33 | 1.98 | 0.31 | 0.78 | 12.92 | 31.17 | 2.6 |
| 21 | 135.6 | 0.36 | 2.20 | 0.35 | 0.83 | 12.55 | 31.19 | 2.9 |
| 41 | 336.9 | 0.35 | 0.91 | 0.21 | 0.25 | 8.11 | 31.74 | 6.5 |
| 70 | 594.3 | 0.30 | 0.84 | 0.19 | 0.27 | 5.63 | 31.98 | 10.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM033 | 59 52.1N | 145 57.8W | 27 JUL | 0830 | + 9 | 100 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 111.5 | 0.34 | 2.09 | 0.33 | 0.83 | 13.14 | 30.85 | 2.4 |
| 12 | 141.3 | 0.48 | 2.53 | 0.45 | 0.76 | 11.87 | 30.93 | 2.9 |
| 21 | 242.5 | 0.57 | 1.98 | 0.48 | 0.37 | 8.60 | 31.63 | 4.7 |
| 41 | 611.2 | 0.26 | 0.84 | 0.17 | 0.26 | 5.90 | 31.94 | 11.2 |
| 92 | 449.9 | 0.29 | 2.41 | 0.42 | 0.20 | 5.46 | 32.28 | 8.1 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM034 60 1.3N 145 53.2W 27 JUL 1115 + 9 82

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 120.7 0.40 2.11 0.36 0.84 12.88 30.83 2.5
11 164.3 0.68 2.27 0.46 0.73 12.06 30.97 3.4
21 271.7 0.43 1.51 0.31 0.35 7.22 31.74 5.1
41 547.8 0.36 0.87 0.20 0.29 5.58 32.03 9.9
76 880.8 0.38 0.86 0.18 0.26 5.35 32.09 15.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM035 60 11.7N 145 58.5W 27 JUL 1350 + 9 109

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 113.0 0.40 2.27 0.36 1.04 13.73 29.47 2.4
12 165.6 0.53 2.52 0.51 0.86 13.32 30.13 3.5
22 265.2 0.63 1.93 0.50 0.41 8.59 31.59 5.1
41 275.8 0.53 1.29 0.29 0.33 6.56 31.72 5.1
82 873.3 0.35 0.82 0.20 0.27 5.31 32.08 15.7
106 1349.1 0.38 0.87 0.20 0.29 5.18 32.26 24.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM036 60 10.9N 145 35.7W 27 JUL 1710 + 9 91

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 205.0 0.41 1.63 0.35 0.86 13.85 27.72 4.4
14 193.2 0.40 1.86 0.37 0.90 13.56 29.19 4.1
23 297.8 0.67 2.78 0.68 0.96 11.70 30.87 6.2
40 854.5 0.73 1.80 0.68 0.70 7.65 31.56 16.3
87 845.6 0.45 0.88 0.30 0.28 5.77 32.14 15.4

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM037 60 9.5N 145 20.3W 27 JUL 1900 + 9 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 244.9 0.61 1.79 0.50 1.32 13.45 28.93 5.2
13 183.8 0.42 1.84 0.38 0.92 13.38 29.49 3.9
22 515.6 0.49 1.57 0.38 0.46 10.08 31.12 10.4
42 360.6 0.70 2.34 0.59 0.64 7.93 31.63 6.9
61 1135.1 0.46 1.27 0.29 0.44 6.53 32.00 21.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM038 60 16.0N 145 44.2W 27 JUL 2040 + 9 49

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 182.8 0.33 1.40 0.29 0.73 13.89 26.84 3.9
11 181.0 0.33 1.59 0.31 0.86 13.87 27.53 3.8
21 206.0 0.34 2.66 0.34 0.90 13.89 28.05 4.4
42 391.0 0.63 1.98 0.48 0.46 8.92 31.47 7.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM039 60 18.9N 146 2.0W 27 JUL 2145 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 183.0 0.37 1.71 0.33 0.86 13.69 22.91 3.8
11 168.9 0.35 1.60 0.29 0.80 13.78 27.73 3.6
20 210.5 0.50 2.21 0.45 0.99 13.32 29.41 4.5

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM040 60 33.0N 146 26.2W 28 JUL 0210 + 9 112

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 143.6 0.38 2.14 0.32 1.12 13.72 25.74 3.0
20 499.0 0.93 2.95 0.68 0.91 9.00 30.23 9.7
62 316.0 0.63 0.84 0.28 0.32 4.59 31.71 5.5
82 272.2 0.33 0.42 0.18 0.26 3.81 31.89 4.7
112 391.9 0.37 0.48 0.19 0.27 4.22 32.12 6.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 60 31.8N 146 47.0W 28 JUL 0745 + 9 408

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 115.0 0.44 2.78 0.46 1.41 13.73 27.87 2.4
21 319.9 0.87 3.13 0.71 0.69 9.01 30.34 6.2
61 237.4 0.41 0.82 0.20 0.28 4.18 31.83 4.1
103 186.3 0.30 0.55 0.17 0.21 3.88 32.02 3.2
205 251.3 0.23 0.60 0.15 0.38 4.84 32.56 4.5
306 234.1 0.24 0.57 0.16 0.24 4.95 32.79 4.2
406 200.7 0.26 0.54 0.17 0.22 4.95 32.93 3.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM043 60 31.7N 146 47.3W 28 JUL 1015 + 9 285

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 212.0 0.38 1.94 0.37 0.87 12.81 26.42 4.4
22 455.0 1.16 2.19 0.57 0.65 7.65 31.20 8.6
62 266.3 0.47 0.87 0.25 0.32 4.52 31.79 4.7
102 221.0 0.39 0.67 0.19 0.25 3.95 31.87 3.8
203 239.1 T 0.56 0.17 0.25 4.66 32.39 4.2
279 215.0 0.26 0.55 0.18 0.21 4.96 32.80 3.8

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM044 60 15.0N 146 50.6W 28 JUL 1315 + 9 249

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 234.1 0.36 1.33 0.27 0.65 13.77 22.86 4.8
21 192.2 0.47 2.19 0.40 0.77 11.99 30.21 4.0
62 227.9 0.48 1.94 0.34 0.77 5.97 31.75 4.1
102 613.7 0.39 0.88 0.25 0.32 5.27 32.17 11.0
204 446.2 0.31 0.65 0.18 0.24 5.06 32.51 8.0
248 424.9 0.28 0.60 0.19 0.21 5.10 32.67 7.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM045 60 4.7N 146 46.1W 28 JUL 1820 + 9 115

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 151.1 * * * 0.98 13.84 28.06 3.2
21 410.0 0.66 1.69 0.39 0.51 7.24 31.39 7.7
62 571.4 0.39 1.01 0.22 0.32 5.56 31.89 10.3
98 1400.7 * 0.82 0.20 0.28 5.21 32.24 25.2
111 1265.2 0.38 0.79 0.20 0.26 5.25 32.19 22.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM046 59 55.1N 146 36.7W 28 JUL 2010 + 9 63

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 153.9 0.38 2.11 0.31 0.98 12.85 28.64 3.2
11 332.4 0.70 2.46 0.54 0.65 9.27 31.20 6.5
21 443.5 0.48 1.53 0.32 0.47 6.78 31.81 8.3
41 507.0 0.41 1.20 0.25 0.31 6.16 31.98 9.3
59 497.0 0.37 1.14 0.26 0.42 6.06 31.97 9.1

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM047 59 46.1N 146 33.3W 28 JUL 2150 + 9 69

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 2 | 129.2 | 0.33 | 2.38 | 0.32 | 0.94 | 13.00 | 30.55 | 2.7 |
| 11 | 138.9 | 0.34 | 1.95 | 0.33 | 0.75 | 12.35 | 31.07 | 2.9 |
| 21 | 278.6 | 0.58 | 1.98 | 0.45 | 0.60 | 9.03 | 30.78 | 5.4 |
| 41 | 532.2 | 0.37 | 1.13 | 0.28 | 0.28 | 6.11 | 32.00 | 9.8 |
| 63 | 507.2 | * | 1.45 | 0.25 | 0.35 | 5.82 | 32.06 | 9.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM048 59 15.8N 146 19.3W 27 JUL 0200 + 9 283

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 67.7 | 0.30 | 2.15 | 0.27 | 0.93 | 13.56 | 31.83 | 1.4 |
| 21 | 98.5 | 0.60 | 1.63 | 0.43 | 0.11 | 7.82 | 31.77 | 1.8 |
| 62 | 208.7 | 0.28 | 0.79 | 0.16 | 0.26 | 6.29 | 32.24 | 3.8 |
| 103 | 140.9 | 0.30 | 0.75 | 0.19 | 0.30 | 5.83 | 32.58 | 2.5 |
| 204 | 122.6 | 0.25 | 0.39 | 0.17 | 0.09 | 5.64 | 33.52 | 2.2 |
| 283 | 93.8 | 0.20 | 0.35 | 0.12 | T | 4.98 | 33.88 | 1.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM049 59 47.0N 147 7.1W 29 JUL 0300 + 9 197

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|------|
| 1 | 151.3 | 0.40 | 2.27 | 0.34 | 1.03 | 13.06 | 27.96 | 3.2 |
| 21 | 142.5 | 0.30 | 2.02 | 0.29 | 0.82 | 11.96 | 31.40 | 3.0 |
| 62 | 469.2 | 0.35 | 1.13 | 0.21 | 0.33 | 6.11 | 32.03 | 9.0 |
| 102 | 331.6 | 0.33 | 0.98 | 0.21 | 0.36 | 6.05 | 32.17 | 6.1 |
| 193 | 740.9 | 0.25 | 0.59 | 0.14 | 0.27 | 5.18 | 33.03 | 13.4 |

CRUISE NUMBER
RP-4-DI-76B-I

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
19 JUL-31 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM050 | 60 4.4N | 147 2.3W | 29 JUL | 0100 | + 9 | 224 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 162.6 | 0.37 | 1.93 | 0.31 | 1.01 | 13.31 | 27.21 | 3.4 |
| 22 | 390.3 | 0.85 | 2.16 | 0.47 | 0.81 | 8.45 | 30.73 | 7.5 |
| 62 | 500.6 | 0.50 | 1.14 | 0.30 | 0.42 | 5.61 | 31.86 | 9.1 |
| 203 | 567.4 | 0.31 | 0.63 | 0.17 | 0.23 | 5.16 | 32.74 | 10.2 |
| 219 | 601.9 | 0.30 | 0.60 | 0.16 | 0.31 | 5.14 | 32.86 | 10.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM051 | 59 49.5N | 148 10.5W | 29 JUL | 0705 | + 9 | 128 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 261.0 | 0.74 | 2.39 | 0.48 | 1.07 | 11.72 | 29.40 | 5.4 |
| 21 | 305.0 | 1.13 | 2.19 | 0.53 | 0.71 | 10.71 | 30.69 | 6.2 |
| 61 | 398.5 | 1.98 | 1.80 | 0.74 | 0.52 | 8.59 | 31.45 | 7.7 |
| 101 | 497.1 | 0.64 | 0.88 | 0.31 | 0.26 | 5.37 | 32.15 | 8.9 |
| 125 | 515.4 | 0.37 | 1.43 | 0.22 | 0.22 | 4.58 | 32.13 | 9.1 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM061 60 5.5N 146 57.5W 22 APR 0920 +10 129

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 168.3 0.17 0.51 0.07 0.45 5.71 31.70 3.0
19 194.5 0.17 0.44 0.09 0.39 5.65 31.73 3.5
119 159.2 T 0.31 0.05 0.18 5.88 32.26 2.9
124 134.6 0.21 0.45 0.09 0.50 5.87 32.30 2.4
127 205.6 0.16 0.40 0.08 0.30 5.85 32.33 3.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM062 59 54.3N 147 5.4W 18 APR 1515 +10 208

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 161.0 0.30 0.72 0.09 * 5.61 31.93 2.9
20 233.4 0.23 0.40 0.12 0.51 5.61 31.93 4.2
95 388.5 0.31 0.52 0.15 0.50 5.90 32.22 7.1
176 194.3 0.25 0.46 0.11 0.43 5.73 32.88 3.5
199 189.9 0.28 0.47 0.11 0.31 5.54 33.19 3.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM064 59 35.4N 147 4.4W 18 APR 0200 +10 205

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 145.4 0.24 0.58 * * 5.82 32.06 2.6
22 170.1 0.32 0.48 0.33 * 5.81 32.07 3.1
101 323.6 0.38 0.46 0.12 0.35 5.94 32.43 5.9
177 433.3 0.36 0.62 0.15 0.36 5.35 33.48 7.9
187 517.5 0.18 0.51 0.20 0.42 5.31 33.52 9.4

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM065 59 40.1N 146 30.7W 18 APR 0730 +10 90

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 108.3 | 0.32 | 0.70 | 0.16 | * | 5.94 | 32.06 | 1.9 |
| 22 | 167.9 | 0.21 | 0.48 | 0.09 | * | 6.00 | 32.26 | 3.0 |
| 62 | 127.6 | 0.21 | 0.46 | 0.10 | 0.17 | 6.00 | 32.28 | 2.3 |
| 87 | 124.1 | 0.32 | 0.56 | 0.11 | 0.39 | 6.00 | 32.28 | 2.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM066 59 49.8N 146 29.3W 18 APR 1200 +10 73

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 163.2 | 0.23 | 0.53 | 0.14 | 0.47 | 5.60 | 31.68 | 2.9 |
| 20 | 238.6 | 0.69 | * | * | 0.65 | 5.62 | 31.80 | 4.3 |
| 40 | 206.1 | 0.24 | 0.46 | 0.11 | 0.43 | 5.73 | 31.85 | 3.7 |
| 68 | 208.1 | * | 0.50 | 0.11 | 0.83 | 5.85 | 31.91 | 3.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM067 60 0.2N 146 30.9W 18 APR 2130 +10 66

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 155.1 | 0.56 | 0.51 | 0.15 | * | 5.72 | 31.73 | 2.8 |
| 20 | 141.9 | 0.20 | 0.57 | 0.09 | 0.15 | 5.72 | 31.74 | 2.5 |
| 39 | 195.1 | 0.40 | 0.73 | 0.16 | * | 5.69 | 31.85 | 3.5 |
| 59 | 150.5 | 0.31 | 0.67 | 0.11 | 0.27 | 5.69 | 31.85 | 2.7 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM068 60 10.5N 146 30.9W 19 APR 0000 +10 135

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 121.2 T 0.25 0.06 * 5.64 31.80 2.2
20 168.5 0.45 0.91 0.18 0.29 5.70 31.84 3.0
118 458.7 0.32 0.44 0.10 0.12 5.81 32.05 8.3
124 651.9 0.33 0.46 0.10 0.23 5.81 32.08 11.9
128 527.1 0.22 0.44 0.10 0.20 5.81 32.08 9.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM069 60 14.2N 146 0.0W 21 APR 2000 +10 103

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 109.0 0.17 0.71 0.08 0.37 5.24 31.43 1.9
19 117.7 0.26 0.49 0.09 0.26 5.23 31.45 2.1
91 115.9 0.18 0.34 0.07 * 5.32 31.52 2.0
96 121.4 0.23 0.42 0.10 * 5.33 31.52 2.1
100 125.5 0.23 0.41 0.10 * 5.34 31.53 2.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM070 60 7.1N 145 59.9W 22 APR 0200 +10 87

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

21 134.3 T 0.44 0.11 0.19 5.36 31.53 2.4
70 137.7 0.38 0.18 0.08 0.18 5.66 31.83 2.5
84 193.4 0.27 0.51 0.09 0.23 5.88 31.88 3.5

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM071 59 55.8N 146 0.0W 22 APR 0510 +10 86

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 145.6 0.38 0.51 0.12 0.27 5.76 31.54 2.6
24 169.0 0.28 0.46 0.11 0.28 5.73 31.73 3.0
74 178.4 0.20 0.45 0.10 0.21 5.88 31.91 3.2
78 182.1 0.35 0.45 0.11 * 5.89 31.91 3.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM074 59 35.0N 145 36.2W 21 APR 0745 +10 132

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 138.7 0.35 0.43 0.12 0.28 6.03 31.86 2.5
24 103.5 0.31 0.53 0.11 0.25 6.00 32.10 1.9
119 91.6 0.23 0.53 0.12 0.23 5.70 32.68 1.6
124 89.8 0.25 0.50 0.10 0.19 5.70 32.70 1.6
129 115.0 0.22 0.54 0.12 * 5.69 32.74 2.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM075 59 43.5N 145 35.0W 21 APR 1105 +10 104

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 138.1 0.23 0.67 0.11 0.24 6.11 31.91 2.5
20 142.2 0.19 0.46 0.09 0.17 6.08 31.91 2.6
91 107.4 0.26 0.50 0.12 0.18 6.09 31.98 1.9
97 112.2 0.22 0.44 0.10 0.18 6.09 32.10 2.0
101 107.7 0.17 0.45 0.09 0.28 6.08 32.17 1.9

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM076 | 59 53.3N | 145 35.0W | 20 APR | 0920 | +10 | 80 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 222.2 | 2.53 | 9.43 | 2.57 | 3.59 | 5.97 | 31.84 | 4.0 |
| 20 | 181.8 | 0.52 | 1.19 | 0.28 | 0.52 | 5.98 | 31.84 | 3.3 |
| 40 | 184.1 | 0.21 | 0.44 | 0.09 | 0.24 | 5.98 | 31.84 | 3.3 |
| 78 | 304.3 | 0.27 | 0.39 | 0.11 | 0.22 | 6.24 | 31.99 | 5.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM077 | 60 6.6N | 145 34.2W | 21 APR | 1645 | +10 | 126 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 135.0 | 0.29 | 0.66 | 0.13 | 0.37 | 5.61 | 31.21 | 2.4 |
| 23 | 124.8 | 0.25 | 0.44 | 0.10 | 0.22 | 5.40 | 31.49 | 2.2 |
| 115 | 260.8 | 0.21 | 0.37 | 0.09 | 0.23 | 6.16 | 31.97 | 4.8 |
| 120 | 252.2 | 0.23 | 0.39 | 0.10 | 0.27 | 6.27 | 31.98 | 4.6 |
| 124 | 246.6 | 0.21 | 0.35 | 0.10 | 0.24 | 6.28 | 31.97 | 4.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM078 | 60 0.0N | 145 5.2W | 19 APR | 0530 | +10 | 114 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 143.3 | 0.23 | 0.58 | 0.10 | 0.67 | 5.59 | 31.59 | 2.6 |
| 18 | 149.0 | 0.28 | 0.50 | 0.11 | 0.44 | 5.80 | 31.74 | 2.7 |
| 103 | 372.8 | 0.13 | 0.28 | 0.06 | 0.53 | 6.21 | 32.11 | 6.8 |
| 107 | 461.8 | * | * | * | * | 6.22 | 32.11 | 8.5 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM079 59 47.5N 145 4.7W 20 APR 1230 +10 186

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 199.9 0.33 0.58 0.12 0.18 5.74 31.40 3.6
24 192.8 0.27 0.55 0.09 0.23 5.84 31.56 3.5
148 180.8 0.27 0.59 0.13 0.21 6.06 32.31 3.3
168 121.8 0.29 0.48 0.12 0.19 6.02 32.46 2.2
179 122.2 0.25 0.46 0.11 0.12 5.97 32.67 2.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM080 59 41.2N 144 48.1W 21 APR 0045 +10 111

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 173.7 0.34 0.33 0.18 0.13 5.47 31.18 3.1
23 140.0 0.21 0.46 0.10 0.17 6.07 31.89 2.5
97 82.7 0.25 0.45 0.09 0.17 6.10 31.92 1.5
104 92.0 0.36 0.48 0.12 0.20 6.10 31.92 1.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM081 60 2.2N 144 39.6W 19 APR 1130 +10 205

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 149.6 0.33 0.63 0.14 0.30 5.51 31.32 2.7
19 150.6 0.32 0.68 0.13 0.39 5.55 31.38 2.7
189 130.5 0.31 0.50 0.12 0.28 6.05 32.55 2.4
193 124.1 0.20 0.52 0.10 0.24 6.02 32.56 2.2
198 124.0 0.25 0.55 0.13 0.34 6.02 32.57 2.2

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
NORTHEAST GULF OF ALASKA

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM082 | 59 55.3N | 144 39.6W | 19 APR | 1530 | +10 | 177 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 4 | 195.6 | 0.47 | 0.55 | 0.17 | 0.33 | 5.56 | 31.35 | 3.5 |
| 24 | 171.1 | 0.27 | 0.49 | 0.14 | 0.27 | 5.56 | 31.36 | 3.0 |
| 168 | 133.3 | 0.22 | 0.47 | 0.11 | 0.18 | 6.04 | 32.29 | 2.4 |
| 172 | 117.6 | 0.22 | 0.56 | 0.11 | 0.20 | 6.04 | 32.39 | 2.1 |
| 177 | 131.8 | 0.20 | 0.42 | 0.12 | 0.19 | 6.04 | 32.41 | 2.4 |

APPENDIX B

Cook Inlet

| | | |
|-----|-----------------|------------------------|
| B.1 | RP-4-PI-76A-III | 04 Apr. - 13 Apr. 1976 |
| B.2 | RP-4-DI-77A-IV | 05 Apr. - 22 Apr. 1977 |
| B.3 | ACONA 245-77 | 28 Jun. - 16 Jul. 1977 |
| B.4 | RP-4-DI-78A-III | 04 May - 17 May 1978 |
| B.5 | RP-4-DI-78B-II | 28 Aug. - 06 Sep. 1978 |
| B.6 | RP-4-DI-79A-II | 07 May - 20 May 1979 |

CRUISE NUMBER
RP-4-01-76A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 APR-13 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM001 | 00 04.0N | 152 02.0W | 07 APR | 0255 | +10 | 170 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 7 | 135.7 | * | * | 0.77 | 0.30 | * | * | * |
| 50 | * | * | 0.21 | 0.75 | 0.30 | * | * | * |
| 165 | 118.8 | 0.24 | 0.39 | 0.77 | 0.34 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM02A | 09 24.2N | 152 41.2W | 09 APR | 2020 | +10 | 66 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 107.2 | 0.35 | 1.03 | 0.46 | 0.53 | * | * | * |
| 9 | 120.7 | 0.40 | 1.06 | 0.59 | 0.73 | * | * | * |
| 18 | 128.4 | * | * | 0.44 | 0.40 | * | * | * |
| 49 | 109.3 | 0.38 | 1.00 | 0.54 | 0.80 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 00 40.0N | 151 34.0W | 07 APR | 1935 | +10 | 64 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|------|
| 0 | 1387.3 | 1.79 | * | 0.31 | * | * |
| 10 | 1270.3 | 2.54 | * | 0.82 | * | * |
| 30 | 1273.2 | 1.63 | * | 0.25 | * | * |
| 40 | 1251.5 | 1.43 | * | 0.52 | * | * |
| 55 | 1221.2 | 2.12 | * | 0.49 | * | * |

CRUISE NUMBER
RP-4-DI-76A-111

LOCATION
COOK INLET

INCLUSIVE DATES
04 APR-13 APR 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM05A 59 30.3N 151 46.1W 09 APR 1110 +10 88

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|---|---|---|
| 0 | 144.1 | 0.40 | 1.41 | 1.11 | 0.72 | * | * | * |
| 10 | 143.9 | 0.39 | 1.06 | 0.32 | 0.70 | * | * | * |
| 32 | 136.9 | 0.38 | 1.13 | 0.30 | 0.69 | * | * | * |
| 77 | 147.9 | 0.37 | 1.18 | 0.30 | 0.60 | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM006 59 36.8N 151 18.0W 08 APR 1840 +10 81

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|---|---|------|------|---|---|---|
| 0 | 540.8 | * | * | 0.61 | 0.71 | * | * | * |
| 8 | 542.3 | * | * | 0.34 | 0.59 | * | * | * |
| 28 | 587.9 | * | * | 0.53 | 0.50 | * | * | * |
| 66 | 494.2 | * | * | 0.37 | 0.44 | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM007 59 30.1N 153 10.0W 09 APR 2250 +10 38

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|---|---|---|
| 0 | 199.5 | 0.29 | 0.73 | 0.42 | 0.41 | * | * | * |
| 9 | 204.9 | 0.29 | 0.63 | 0.51 | 0.29 | * | * | * |
| 31 | 187.6 | 0.28 | 0.67 | 0.43 | 0.34 | * | * | * |

CRUISE NUMBER
RP-4-D1-76A-111

LOCATION
COOK INLET

INCLUSIVE DATES
04 APR-13 APR 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-----|------|
| PM008 | 29 14.5N | 153 39.7W | 09 APR | 1640 | +10 | 25 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 509.2 | * | 0.81 | 1.90 | 0.89 | * | * | * |
| 17 | 527.7 | * | 0.67 | 0.34 | 0.44 | * | * | * |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM005 60 20.4N 151 53.0W 06 APR 0050 +10 42

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 355.1 * 0.22 0.30 0.07 1.28 28.97 5.6
12 349.1 * 0.57 0.36 0.09 1.29 28.99 5.5
21 369.0 * * * 0.05 1.31 29.00 5.8
33 364.6 * * 0.28 0.08 1.32 29.02 5.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM008 60 10.6N 151 41.2W 05 APR 2110 +10 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 427.6 0.47 0.37 0.13 0.15 1.86 29.76 6.9
10 411.2 0.48 * 0.14 0.13 2.23 30.18 6.7
33 685.1 0.27 0.29 0.10 0.10 2.93 30.80 11.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM009 60 10.0N 151 56.2W 06 APR 0435 +10 60

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

54 189.0 0.47 0.42 * * 3.07 30.81 3.1

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11A | 60 9.6N | 152 24.7W | 06 APR | 2120 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 29 | * | * | 0.98 | 0.41 | 0.61 | 2.32 | 30.19 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11B | 60 9.6N | 152 24.7W | 07 APR | 0100 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 24 | 277.1 | 0.48 | 0.47 | 0.08 | 0.12 | 2.35 | 30.17 | 4.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11C | 60 9.6N | 152 24.7W | 07 APR | 0500 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 26 | 235.2 | 0.55 | 0.42 | 0.13 | 0.18 | 2.27 | 30.16 | 3.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11D | 60 9.6N | 152 24.7W | 07 APR | 0920 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 33 | * | 1.33 | 0.79 | 0.40 | 0.36 | 2.27 | 30.16 | * |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11E | 60 9.6N | 152 24.7W | 07 APR | 1100 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 285.4 | 1.10 | * | 0.18 | 0.25 | 2.32 | 30.16 | 4.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11F | 60 9.6N | 152 24.7W | 07 APR | 1700 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 264.9 | 0.71 | 0.50 | 0.26 | 0.19 | 2.31 | 30.10 | 4.3 |
| 23 | 240.9 | 0.47 | 0.44 | 0.12 | 0.08 | 2.29 | 30.10 | 3.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11G | 60 9.6N | 152 24.7W | 07 APR | 2115 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 293.2 | 0.37 | 0.26 | 0.08 | 0.10 | 2.31 | 30.12 | 4.8 |
| 32 | 200.8 | 0.35 | 0.23 | 0.17 | 0.24 | 2.33 | 30.12 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM11H | 60 9.6N | 152 24.7W | 08 APR | 0310 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 189.9 | 0.30 | 0.19 | 0.13 | 0.18 | 2.26 | 30.10 | 3.1 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 59 48.5N 151 58.6W 09 APR 1600 +10 34

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 308.8 0.39 0.77 0.21 0.41 4.27 31.41 5.4
26 355.8 0.37 0.67 0.10 0.37 4.28 31.41 6.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 59 47.8N 152 32.0W 08 APR 1830 +10 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

33 186.6 0.34 0.35 0.19 0.26 2.87 30.72 3.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM019 59 47.6N 152 51.4W 08 APR 2130 +10 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 211.2 0.36 0.39 0.15 0.24 2.56 30.61 3.5
20 219.2 0.18 0.29 0.09 0.24 2.74 30.69 3.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM021 59 40.8N 152 38.6W 09 APR 0200 +10 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 215.3 0.29 0.35 T 0.26 2.80 30.61 3.6
22 214.9 0.35 0.38 0.05 0.28 2.82 30.61 3.5

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM022 59 40.9N 152 14.1W 09 APR 0415 +10 48

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

5 122.3 0.31 0.41 0.11 0.29 4.06 31.38 2.1
34 123.2 0.28 0.39 0.15 0.25 4.05 31.39 2.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM023 59 37.6N 151 52.4W 09 APR 0610 +10 32

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 219.8 0.24 0.56 0.05 0.28 4.38 31.44 3.8
24 214.4 0.24 0.52 T 0.24 4.38 31.44 3.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM024 59 33.5N 151 36.4W 09 APR 0720 +10 90

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 128.0 0.73 * * * 4.45 31.39 2.2
87 286.0 0.40 0.48 0.14 0.23 4.39 31.47 5.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 59 30.0N 151 58.0W 09 APR 2130 +10 77

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 126.5 0.37 0.49 0.13 0.37 4.60 31.38 2.2
71 124.9 0.37 0.55 0.17 0.35 4.61 31.38 2.2

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM026 59 27.0N 152 23.2W 10 APR 0415 +10 74

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 85.9 0.33 0.45 0.12 0.26 4.66 31.45 1.5
63 80.1 0.34 0.46 0.17 0.29 4.47 31.50 1.4
68 88.7 0.34 0.45 0.11 0.26 4.47 31.50 1.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM26A 59 33.3N 152 18.7W 10 APR 0620 +10 60

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 91.0 0.23 0.40 0.11 0.17 4.66 31.45 1.6
55 88.3 0.33 0.51 0.16 0.26 4.66 31.45 1.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM027 59 21.6N 152 48.5W 11 APR 1435 +10 76

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 120.8 0.31 0.49 0.14 0.25 3.42 31.15 2.0
73 97.8 0.35 0.47 0.15 0.24 4.63 31.48 1.7

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM27A | 59 31.4N | 152 41.0W | 10 APR | 0815 | +10 | 66 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 103.0 | 0.36 | 0.52 | 0.13 | * | 3.67 | 31.24 | 1.7 |
| 52 | 85.5 | 0.38 | 0.48 | 0.13 | 0.30 | 4.39 | 31.46 | 1.5 |
| 63 | 85.7 | 0.32 | 0.52 | 0.15 | 0.22 | 4.41 | 31.46 | 1.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM028 | 59 18.2N | 153 14.3W | 10 APR | 1500 | +10 | 49 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 113.1 | 0.26 | 0.38 | 0.13 | 0.24 | 3.27 | 31.09 | 1.9 |
| 20 | 119.6 | 0.34 | 0.11 | 0.09 | 0.08 | 3.28 | 31.09 | 2.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM28A | 59 29.9N | 153 13.6W | 10 APR | 1155 | +10 | 33 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 144.9 | 0.28 | 0.33 | 0.15 | 0.25 | 3.12 | 30.97 | 2.4 |
| 20 | 124.9 | 0.27 | 0.33 | 0.13 | 0.15 | 3.13 | 30.97 | 2.1 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM029 | 59 14.2N | 153 39.7W | 10 APR | 1920 | +10 | 36 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 320.7 | 0.27 | 0.32 | 0.14 | 0.19 | 2.73 | 30.78 | 5.3 |
| 14 | 330.0 | 0.48 | 0.48 | 0.23 | 0.24 | 2.78 | 30.82 | 5.5 |
| 29 | 110.2 | 0.33 | 0.42 | 0.16 | 0.20 | 2.93 | 30.89 | 1.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM030 | 58 59.4N | 153 12.9W | 11 APR | 0255 | +10 | 104 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 117.6 | 0.38 | 0.44 | 0.14 | 0.24 | 5.00 | 31.49 | 2.0 |
| 20 | 118.9 | 0.37 | 0.46 | 0.14 | 0.17 | 5.01 | 31.49 | 2.1 |
| 80 | 135.4 | 0.62 | 0.50 | 0.24 | 0.25 | 5.20 | 31.63 | 2.4 |
| 104 | 116.0 | 0.33 | 0.47 | 0.15 | 0.21 | 5.22 | 31.70 | 2.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM031 | 59 0.9N | 153 2.7W | 12 APR | 2330 | +10 | 152 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 5 | 119.9 | 0.48 | 0.56 | 0.23 | 0.32 | 4.82 | 31.67 | 2.1 |
| 10 | 111.6 | 0.30 | 0.40 | 0.12 | 0.24 | 4.84 | 31.67 | 1.9 |
| 106 | 111.6 | 0.27 | 0.39 | 0.13 | 0.13 | 4.87 | 31.66 | 1.9 |
| 147 | 120.3 | 0.23 | 0.39 | 0.14 | 0.45 | 5.38 | 32.01 | 2.1 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM31A 59 9.9N 153 8.5W 11 APR 0100 +10 77

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

5 115.6 0.64 0.55 0.29 0.24 4.88 31.50 2.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM032 59 6.3N 152 43.1W 12 APR 1900 +10 148

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

6 115.4 0.45 0.53 0.23 0.25 4.99 31.61 2.0
22 124.1 0.53 0.56 0.26 0.25 5.00 31.61 2.2
106 185.0 0.29 0.44 0.17 0.20 5.22 32.00 3.3
141 128.8 0.33 0.47 0.21 0.31 5.42 32.10 2.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM32A 59 14.7N 152 45.5W 12 APR 1520 +10 104

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

6 110.7 0.25 0.45 0.13 0.19 4.92 31.59 1.9
21 133.9 0.24 0.50 0.13 0.20 4.92 31.61 2.3
95 114.9 0.38 0.49 0.35 0.25 5.39 31.89 2.0

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM033 59 9.7N 152 20.3W 13 APR 1310 +10 110

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 95.6 * 0.52 0.14 * 4.60 31.52 1.6
19 96.2 0.23 0.41 * * 4.58 31.53 1.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM33A 59 17.3N 152 22.8W 10 APR 0135 +10 86

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 118.4 0.37 0.48 0.15 0.29 5.01 31.46 2.1
73 116.4 0.35 0.45 0.14 0.24 5.04 31.49 2.0
82 109.1 0.39 0.45 0.14 0.26 5.04 31.49 1.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM036 59 0.4N 152 0.6W 13 APR 2000 +10 202

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

5 98.1 0.28 0.37 0.16 0.23 4.75 31.47 1.7
152 115.8 0.38 0.35 0.14 0.22 5.23 31.72 2.0

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
COOK INLET

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM037 | 58 48.8N | 152 11.9W | 14 APR | 0530 | +10 | 122 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 101.4 | 0.26 | 0.40 | 0.08 | 0.22 | 4.67 | 31.72 | 1.7 |
| 22 | 109.2 | 0.16 | 0.33 | 0.06 | 0.11 | 4.68 | 31.72 | 1.9 |
| 100 | 121.1 | 0.29 | 0.33 | 0.05 | 0.11 | 5.30 | 32.05 | 2.1 |
| 121 | 119.5 | 0.31 | 0.43 | T | 0.19 | 5.31 | 32.09 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM038 | 58 43.2N | 152 24.3W | 14 APR | 0830 | +10 | 137 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 5 | 106.8 | 0.37 | 0.44 | 0.10 | 0.15 | 4.94 | 31.95 | 1.9 |
| 20 | 99.6 | 0.33 | 0.46 | 0.17 | 0.23 | 4.94 | 31.96 | 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM040 | 58 52.6N | 152 52.3W | 13 APR | 0530 | +10 | 166 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 106.2 | 0.36 | 0.34 | 0.26 | 0.28 | 4.93 | 31.81 | 1.8 |
| 21 | 90.6 | 0.20 | 0.32 | 0.17 | 0.18 | 4.94 | 31.79 | 1.6 |

CRUISE NUMBER
ACUNA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM001 | 60 33.7N | 151 30.4W | 02 JUL | 0600 | + 9 | 28 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 319.4 | 0.38 | 0.07 | 0.18 | T | 10.24 | 26.62 | 6.2 |
| 10 | 332.4 | 0.40 | 0.78 | 0.18 | 0.26 | 10.23 | 26.62 | 6.5 |
| 20 | 336.5 | 0.41 | 0.91 | 0.20 | 0.37 | 10.23 | 26.62 | 6.6 |
| 23 | 339.3 | 0.43 | 1.02 | 0.17 | 0.45 | 10.24 | 26.61 | 6.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM002 | 60 34.2N | 151 37.0W | 02 JUL | 0415 | + 9 | 67 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 423.2 | 1.58 | * | * | * | 10.22 | 26.08 | 8.3 |
| 10 | 419.1 | 1.41 | 0.81 | 0.75 | 0.21 | 10.33 | 26.12 | 8.2 |
| 19 | 406.8 | 1.33 | 0.79 | 0.69 | 0.18 | 10.29 | 26.31 | 8.0 |
| 59 | 409.9 | 1.28 | 0.83 | 0.67 | 0.24 | 10.27 | 26.36 | 8.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM003 | 60 43.1N | 151 36.0W | 02 JUL | 0100 | + 9 | 109 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 785.7 | 7.69 | 0.46 | 4.45 | T | 10.68 | 22.78 | 15.2 |
| 11 | 824.0 | 9.39 | 0.44 | 5.60 | T | 10.67 | 22.78 | 15.9 |
| 20 | 654.1 | 4.85 | 0.23 | 2.61 | T | 10.67 | 22.79 | 12.6 |
| 97 | 683.1 | 3.93 | 0.30 | 1.98 | T | 10.62 | 23.33 | 13.2 |

CRUISE NUMBER
ACUNA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM03A 60 50.6N 151 18.1W 01 JUL 2030 + 9 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

10 657.4 2.91 0.41 1.60 T 10.87 22.33 12.3
19 668.2 3.09 0.41 1.68 T 10.87 22.33 12.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM03B 60 58.5N 151 7.8W 01 JUL 2100 + 9 32

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 628.9 2.21 0.59 0.85 0.15 11.15 20.43 12.1
10 622.8 1.81 0.49 0.67 T 11.06 20.76 12.0
26 669.3 2.46 0.47 1.26 T 10.89 21.51 12.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM03C 60 55.6N 151 22.1W 01 JUL 1945 + 9 44

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

10 642.6 5.51 0.58 3.03 T 10.58 23.50 12.4
20 659.2 5.94 0.70 3.07 0.22 10.58 23.50 12.8
40 685.7 6.25 0.65 3.13 0.24 10.58 23.50 13.3

CRUISE NUMBER
ACONA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM03D | 60 50.3N | 151 33.6W | 01 JUL | 2330 | + 9 | 69 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 729.4 | 5.18 | 0.45 | 2.79 | T | 10.59 | 23.31 | 14.1 |
| 10 | 675.2 | 5.69 | 0.45 | 3.01 | T | 10.59 | 23.41 | 13.1 |
| 65 | 667.7 | 5.71 | 0.50 | 3.19 | T | 10.60 | 23.55 | 12.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM004 | 60 18.4N | 152 18.5W | 02 JUL | 1050 | + 9 | 40 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 319.3 | 0.35 | 1.68 | 0.19 | 0.58 | 9.82 | 29.11 | 6.3 |
| 10 | 343.1 | 0.32 | 1.71 | 0.18 | 0.63 | 9.75 | 29.12 | 6.7 |
| 20 | 350.4 | 0.32 | 1.77 | 0.19 | 0.66 | 9.65 | 29.19 | 6.9 |
| 36 | 348.8 | 0.33 | 1.86 | 0.20 | 0.69 | 9.64 | 29.21 | 6.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM4TA | 60 18.4N | 152 18.5W | 30 JUN | 1900 | + 9 | 41 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 296.9 | 0.31 | 1.77 | 0.16 | 0.63 | 9.52 | 28.94 | 5.8 |
| 10 | 354.4 | 0.30 | 1.59 | 0.15 | 0.60 | 9.50 | 28.95 | 6.9 |
| 18 | 375.3 | 0.94 | 1.55 | 0.21 | 0.65 | 9.46 | 28.97 | 7.3 |
| 36 | 350.8 | 0.30 | 1.51 | 0.16 | 0.50 | 9.29 | 29.16 | 6.8 |

CRUISE NUMBER
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INCLUSIVE DATES
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM4TB 60 18.4N 152 18.5W 30 JUN 2320 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 343.9 0.28 1.46 0.12 0.47 9.67 28.84 6.7
11 344.3 0.27 1.39 0.13 0.41 9.66 28.84 6.7
18 343.0 0.29 1.40 0.13 * 9.65 28.85 6.7
33 366.6 0.53 1.49 0.17 0.43 9.43 29.07 7.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM4TC 60 18.4N 152 18.5W 01 JUL 0300 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 325.0 0.29 1.50 0.16 0.49 9.50 29.02 6.3
36 365.7 0.38 1.62 0.19 0.47 9.32 29.33 7.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM4TD 60 18.4N 152 18.5W 01 JUL 0500 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 336.3 0.34 1.69 0.27 0.57 9.31 29.30 6.5
10 344.5 0.32 1.63 0.18 0.45 9.33 29.31 6.7
20 343.3 0.31 1.67 0.19 0.40 9.33 29.33 6.7
29 341.9 0.34 1.68 0.17 0.43 9.33 29.35 6.7

CRUISE NUMBER
AGONA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM4TE 60 18.4N 152 18.5W 01 JUL 0700 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 243.4 T 0.83 0.09 0.28 9.49 28.83 4.7
20 310.3 0.27 1.29 0.14 0.40 9.41 29.15 6.0
34 364.5 0.35 1.81 0.19 0.50 9.35 29.27 7.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM005 60 20.4N 151 53.0W 02 JUL 1510 + 9 28

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 332.9 0.61 2.58 0.33 0.61 10.39 27.44 6.6
10 332.0 0.53 1.18 0.25 0.43 10.39 27.44 6.5
23 328.5 0.53 1.23 0.24 0.47 10.39 27.43 6.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM006 60 19.7N 151 42.2W 02 JUL 1655 + 9 46

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 397.5 0.31 1.07 0.14 0.19 10.12 27.88 7.8
10 386.0 0.36 1.31 0.15 0.48 10.05 27.99 7.6
19 414.6 0.33 1.61 0.17 0.58 10.07 28.00 8.1
41 416.8 0.31 1.44 0.16 0.48 10.05 28.00 8.2

CRUISE NUMBER
ACUNA 245-77

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM007 60 19.0N 151 33.3W 02 JUL 1820 + 9 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|--------|------|------|------|------|-------|-------|------|
| 0 | 634.1 | 0.28 | 1.63 | 0.16 | 0.58 | 10.31 | 28.26 | 12.6 |
| 10 | 632.3 | 0.27 | 1.38 | 0.14 | 0.39 | 10.25 | 28.34 | 12.5 |
| 19 | 1047.7 | 0.53 | 3.15 | 0.39 | 1.17 | 10.36 | 30.13 | 21.1 |
| 26 | 1061.2 | 0.56 | 3.34 | 0.41 | 1.17 | 10.39 | 30.15 | 21.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM008 60 10.6N 151 41.2W 02 JUL 2100 + 9 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 0 | 887.0 | 0.08 | 3.48 | 0.41 | 1.28 | 10.16 | 30.47 | 17.8 |
| 10 | 927.5 | 0.76 | 3.75 | 0.50 | 1.29 | 10.17 | 30.54 | 18.7 |
| 20 | 980.3 | 0.80 | 4.51 | 0.55 | 1.29 | 10.21 | 30.63 | 19.7 |
| 32 | 954.3 | 0.73 | 4.27 | 0.52 | 1.35 | 10.24 | 30.79 | 19.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM009 60 10.0N 151 56.2W 03 JUL 0000 + 9 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 0 | 425.2 | 0.35 | 1.11 | 0.14 | 0.36 | 10.15 | 28.00 | 8.4 |
| 9 | 531.5 | 0.51 | 1.32 | 0.15 | 0.29 | 10.13 | 28.31 | 10.5 |
| 20 | 545.1 | 0.29 | 1.45 | 0.15 | 0.37 | 10.08 | 28.84 | 10.8 |
| 50 | 539.2 | 0.38 | 2.12 | 0.21 | 0.67 | 9.86 | 29.62 | 10.7 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM010 60 9.6N 152 15.0W 03 JUL 0210 + 9 58

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 367.4 | 0.33 | 1.70 | 0.19 | 0.62 | 9.67 | 29.31 | 7.2 |
| 10 | 376.8 | 0.34 | 1.70 | 0.16 | 0.56 | 9.67 | 29.31 | 7.4 |
| 20 | 378.6 | 0.34 | 1.47 | 0.16 | 1.44 | 9.67 | 29.31 | 7.4 |
| 54 | 377.0 | 0.33 | 1.54 | 0.15 | 0.41 | 9.64 | 29.38 | 7.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM011 60 9.6N 152 24.7W 03 JUL 0420 + 9 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 349.9 | 0.32 | 1.82 | 0.22 | 0.48 | 9.61 | 29.52 | 6.9 |
| 10 | 349.6 | 0.33 | 1.86 | 0.22 | 0.49 | 9.62 | 29.50 | 6.9 |
| 19 | 350.2 | 0.34 | 1.82 | 0.22 | 0.51 | 9.62 | 29.50 | 6.9 |
| 33 | 342.8 | 0.32 | 1.77 | 0.20 | 0.51 | 9.62 | 29.49 | 6.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM012 59 59.8N 152 29.3W 03 JUL 0615 + 9 45

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 0 | 551.9 | 0.33 | 1.73 | 0.21 | 0.62 | 9.92 | 28.90 | 10.9 |
| 10 | 516.5 | 0.38 | 2.02 | 0.23 | 0.67 | 9.74 | 29.01 | 10.2 |
| 19 | 474.1 | 0.38 | 1.98 | 0.25 | 0.71 | 9.91 | 29.24 | 9.4 |
| 41 | 424.8 | 0.39 | 2.22 | 0.26 | 0.72 | 9.98 | 29.38 | 9.0 |

CRUISE NUMBER
ACDNA 245-77

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COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM013 | 60 0.0N | 152 17.5W | 03 JUL | 0845 | + 9 | 51 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 437.4 | 0.39 | 2.07 | 0.23 | 0.80 | 9.75 | 29.38 | 8.6 |
| 10 | 424.8 | 0.40 | 2.35 | 0.27 | 0.80 | 9.42 | 30.12 | 8.3 |
| 20 | 355.0 | 0.44 | 2.54 | 0.29 | 0.87 | 9.29 | 30.44 | 6.6 |
| 46 | 273.1 | 0.49 | 2.76 | 0.38 | 0.95 | 9.18 | 30.73 | 5.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM014 | 59 59.2N | 152 5.5W | 03 JUL | 1125 | + 9 | 55 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 366.4 | 0.45 | 2.65 | 0.26 | 0.79 | 9.60 | 30.19 | 7.2 |
| 10 | 345.4 | 0.45 | 2.47 | 0.30 | 0.79 | 9.57 | 30.22 | 6.8 |
| 20 | 354.4 | 0.45 | 2.72 | 0.32 | 0.89 | 9.51 | 30.29 | 7.0 |
| 50 | 315.6 | 0.47 | 2.89 | 0.32 | * | 9.43 | 30.42 | 6.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM015 | 60 0.0N | 151 54.5W | 03 JUL | 1315 | + 9 | 32 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 642.8 | 0.79 | 4.61 | 0.60 | 1.44 | 10.52 | 30.88 | 13.0 |
| 10 | 651.3 | 0.76 | 4.52 | 0.56 | 1.41 | 10.42 | 30.86 | 13.2 |
| 19 | 653.0 | 0.72 | 4.37 | 0.67 | 1.38 | 10.41 | 30.85 | 13.2 |
| 27 | 700.7 | 0.74 | 4.51 | 0.55 | 1.39 | 10.38 | 30.86 | 14.2 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 59 48.6N 151 58.9W 03 JUL 1530 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 419.8 0.84 4.54 0.59 1.35 9.50 31.24 8.3
10 414.2 0.80 4.41 0.59 1.33 9.50 31.23 8.2
19 415.2 0.81 4.43 0.62 1.30 9.49 31.23 8.2
30 420.6 0.82 4.45 0.61 1.32 9.49 31.23 8.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM017 59 48.5N 152 15.8W 03 JUL 1830 + 9 73

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 181.8 0.50 2.91 0.39 0.86 9.02 31.13 3.5
10 181.4 0.46 2.53 0.36 0.69 8.84 31.17 3.5
19 179.2 0.50 2.50 0.40 0.68 8.80 31.20 3.5
67 177.3 0.48 2.55 0.36 0.66 8.78 31.22 3.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 59 47.8N 152 32.0W 03 JUL 2220 + 9 33

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 373.9 0.42 2.31 0.30 0.81 9.54 30.09 7.4
11 359.1 0.38 2.24 0.24 0.73 9.53 30.08 7.1
21 366.8 0.38 2.20 0.24 0.71 9.54 30.07 7.2

CRUISE NUMBER
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM019 59 47.6N 152 51.4W 04 JUL 0000 + 9 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 368.4 0.41 2.29 0.24 0.82 9.75 29.91 7.7
10 384.0 0.38 2.46 0.22 0.74 9.70 29.92 7.6
19 391.2 0.39 2.31 0.24 0.78 9.69 29.93 7.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM020 59 38.5N 152 59.1W 04 JUL 0230 + 9 38

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 257.8 0.37 2.15 0.25 0.67 9.17 30.37 5.0
11 256.4 0.36 2.50 0.25 0.66 9.15 30.45 5.0
20 256.4 0.37 2.21 0.26 0.66 9.15 30.45 5.0
35 256.2 0.37 2.15 0.25 0.65 9.15 30.45 5.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM021 59 40.8N 152 38.6W 04 JUL 0515 + 9 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 275.0 0.40 2.15 0.29 0.71 9.31 30.34 5.4
10 281.7 0.39 2.30 0.28 0.68 9.29 30.40 5.5
20 283.8 0.41 2.36 0.29 0.68 9.28 30.40 5.5
32 285.3 0.41 2.37 0.28 0.69 9.29 30.40 5.6

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INCLUSIVE DATES
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM022 59 40.9N 152 14.1W 04 JUL 0710 + 9 50

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 139.7 | 0.54 | 2.67 | 0.46 | 0.73 | 8.72 | 31.48 | 2.7 |
| 10 | 136.2 | 0.54 | 2.70 | 0.44 | 0.69 | 8.72 | 31.49 | 2.7 |
| 20 | 139.4 | 0.54 | 2.70 | 0.46 | 0.67 | 8.70 | 31.47 | 2.7 |
| 45 | 140.3 | 0.55 | 2.72 | 0.47 | 0.73 | 8.70 | 31.47 | 2.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM023 59 37.0N 151 52.4W 04 JUL 1130 + 9 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 273.8 | 0.63 | 3.23 | 0.49 | 0.76 | 8.76 | 31.51 | 5.3 |
| 10 | 255.9 | 0.59 | 2.92 | 0.44 | 0.80 | 8.74 | 31.52 | 5.0 |
| 20 | 240.7 | 0.49 | 2.59 | 0.35 | 0.70 | 8.73 | 31.52 | 4.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM024 59 33.5N 151 36.4W 04 JUL 1400 + 9 87

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|--------|------|------|------|------|-------|-------|------|
| 0 | 573.8 | 0.74 | 6.90 | 0.54 | 2.45 | 10.80 | 29.86 | 11.6 |
| 9 | 270.0 | 0.68 | 3.76 | 0.60 | 1.03 | 9.34 | 31.35 | 5.3 |
| 21 | 330.0 | 0.66 | 3.74 | 0.50 | 1.02 | 8.83 | 31.42 | 5.5 |
| 62 | 928.0 | 0.54 | 2.44 | 0.38 | 0.55 | 7.46 | 31.50 | 17.6 |
| 84 | 1320.3 | 0.58 | 2.42 | 0.39 | 0.62 | 7.23 | 31.50 | 24.9 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 59 30.0N 151 58.0W 04 JUL 1715 + 9 79

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 171.8 | 0.48 | 2.39 | 0.35 | 0.52 | 8.60 | 31.71 | 3.3 |
| 12 | 177.9 | 0.51 | 2.38 | 0.42 | 0.62 | 8.30 | 31.74 | 3.4 |
| 22 | 176.8 | 0.49 | 2.35 | 0.38 | 0.57 | 8.23 | 31.76 | 3.4 |
| 42 | 175.1 | 0.48 | 2.12 | * | 0.37 | 8.22 | 31.77 | 3.3 |
| 77 | 173.4 | 0.47 | 2.26 | 0.35 | 0.60 | 8.21 | 31.79 | 3.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM026 59 27.0N 152 23.2W 05 JUL 1630 + 9 70

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 158.6 | 0.63 | 2.38 | 0.42 | 0.55 | 8.47 | 31.67 | 3.0 |
| 10 | 155.7 | 0.49 | 2.47 | 0.38 | 0.56 | 8.42 | 31.64 | 3.0 |
| 21 | 156.7 | 0.51 | 2.56 | 0.39 | 0.57 | 8.42 | 31.64 | 3.0 |
| 66 | 155.5 | 0.48 | 2.49 | 0.36 | 0.52 | 8.42 | 31.65 | 2.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM26A 59 33.5N 152 18.7W 04 JUL 0940 + 9 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 137.5 | 0.54 | 2.55 | 0.45 | 0.69 | 8.75 | 31.43 | 2.6 |
| 11 | 139.3 | 0.53 | 2.63 | 0.44 | 0.64 | 8.64 | 31.48 | 2.7 |
| 20 | 137.9 | 0.54 | 2.66 | 0.43 | 0.65 | 8.64 | 31.47 | 2.6 |
| 45 | 141.7 | 0.54 | 2.50 | 0.43 | 0.65 | 8.61 | 31.50 | 2.7 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM27 59 22.2N 152 47.0W 05 JUL 2300 + 9 71

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 120.7 | 0.47 | 2.16 | 0.36 | 0.57 | 8.41 | 31.65 | 2.5 |
| 10 | 131.0 | 0.44 | 2.32 | 0.32 | 0.50 | 8.26 | 31.67 | 2.5 |
| 20 | 137.0 | 0.45 | 2.05 | 0.33 | 0.47 | 8.18 | 31.69 | 2.6 |
| 41 | 140.2 | 0.44 | 1.87 | 0.32 | 0.46 | 8.02 | 31.75 | 2.7 |
| 67 | 145.7 | 0.45 | 1.65 | 0.29 | 0.39 | 7.92 | 31.79 | 2.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM27A 59 29.6N 152 38.5W 05 JUL 1845 + 9 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 125.0 | 0.46 | 2.48 | 0.35 | 0.56 | 8.67 | 31.55 | 2.4 |
| 11 | 129.7 | 0.46 | 2.11 | 0.23 | 0.38 | 8.52 | 31.53 | 2.5 |
| 20 | 132.7 | 0.48 | 2.30 | 0.39 | 0.56 | 8.51 | 31.54 | 2.5 |
| 60 | 126.6 | 0.45 | 2.36 | 0.34 | 0.54 | 8.51 | 31.54 | 2.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM27B 59 31.1N 152 41.5W 05 JUL 1940 + 9 62

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 58 | 141.3 | 0.46 | 2.23 | 0.35 | 0.52 | 8.40 | 31.48 | 2.7 |
|----|-------|------|------|------|------|------|-------|-----|

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| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM27C | 59 32.6N | 152 38.9W | 05 JUL | 2030 | + 9 | 58 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 204.6 | 0.43 | 1.50 | 0.29 | 0.72 | 9.30 | 30.47 | 5.2 |
| 54 | 149.0 | 0.47 | 2.30 | 0.33 | 0.51 | 8.55 | 31.37 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM27D | 59 31.1N | 152 35.5W | 05 JUL | 2120 | + 9 | 56 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 249.9 | 0.45 | 2.66 | 0.31 | 0.69 | 9.30 | 30.67 | 4.9 |
| 50 | 156.2 | 0.47 | 2.31 | 0.34 | 0.53 | 8.49 | 31.50 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM028 | 59 18.2N | 153 13.0W | 06 JUL | 0200 | + 9 | 44 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 207.0 | 0.37 | 2.19 | 0.26 | 0.69 | 9.41 | 30.58 | 4.0 |
| 11 | 209.1 | 0.42 | 2.20 | 0.28 | 0.62 | 9.25 | 30.68 | 4.1 |
| 21 | 207.8 | 0.39 | 2.10 | 0.26 | 0.60 | 9.11 | 30.73 | 4.0 |
| 41 | 213.3 | 0.41 | 2.15 | 0.26 | 0.60 | 8.98 | 30.79 | 4.1 |

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| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM28A | 59 29.9N | 153 13.0W | 06 JUL | 0500 | + 9 | 30 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 251.4 | 0.33 | 2.04 | 0.23 | 0.63 | 9.51 | 30.24 | 4.9 |
| 9 | 253.7 | 0.33 | 2.02 | 0.20 | 0.63 | 9.51 | 30.24 | 5.0 |
| 21 | 257.5 | 0.33 | 1.99 | 0.19 | 0.62 | 9.51 | 30.25 | 5.1 |
| 27 | 258.3 | 0.32 | 2.02 | 0.20 | 0.63 | 9.51 | 30.25 | 5.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| P28B1 | 59 35.1N | 153 28.0W | 06 JUL | 0630 | + 9 | 15 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 305.9 | 0.36 | 2.11 | 0.24 | 0.70 | 10.03 | 29.96 | 6.1 |
| 12 | 307.3 | 0.36 | 2.01 | 0.23 | 0.73 | 10.03 | 29.96 | 6.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| P28B2 | 59 35.1N | 153 28.0W | 06 JUL | 1120 | + 9 | 15 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 364.5 | 0.41 | 2.50 | 0.26 | 0.81 | 10.16 | 29.91 | 7.3 |
| 5 | 361.9 | 0.41 | 2.24 | 0.29 | 0.78 | 10.15 | 29.93 | 7.2 |
| 9 | 381.0 | 0.38 | 2.02 | 0.25 | 0.76 | 10.15 | 29.93 | 7.6 |

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INCLUSIVE DATES
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| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| P2833 | 59 35.1N | 153 28.0W | 06 JUL | 1500 | + 9 | 15 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 297.1 | 0.41 | 2.20 | 0.27 | 0.79 | 10.06 | 30.02 | 5.9 |
| 4 | 296.8 | 0.37 | 2.20 | 0.23 | 0.68 | 10.15 | 29.93 | 5.9 |
| 9 | 298.4 | 0.38 | 2.20 | 0.25 | 0.72 | 10.00 | 30.02 | 5.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| P2884 | 59 35.1N | 153 28.0W | 06 JUL | 1915 | + 9 | 15 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 327.2 | 0.37 | 2.16 | 0.29 | 0.75 | 10.10 | 29.98 | 6.5 |
| 5 | 309.9 | 0.37 | 2.17 | 0.29 | 0.72 | 10.10 | 29.98 | 6.2 |
| 11 | 324.0 | 0.38 | 2.22 | 0.32 | 0.72 | 10.06 | 29.99 | 6.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| P2885 | 59 35.1N | 153 28.0W | 06 JUL | 2310 | + 9 | 15 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 377.3 | 0.42 | 2.16 | 0.31 | 0.80 | 10.32 | 29.88 | 7.6 |
| 5 | 374.3 | 0.36 | 2.13 | 0.32 | 0.75 | 10.30 | 29.89 | 7.5 |
| 12 | 356.2 | 0.37 | 2.12 | 0.25 | 0.70 | 10.11 | 29.97 | 6.7 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM28C 59 22.8N 153 42.9W 07 JUL 0130 + 9 14

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 1 | 888.8 | 0.52 | 1.92 | 0.39 | 0.73 | 10.48 | 30.15 | 18.0 |
| 6 | 938.7 | 0.53 | 1.87 | 0.36 | 0.77 | 10.48 | 30.15 | 18.4 |
| 10 | 949.4 | 0.55 | 2.02 | 0.37 | 0.76 | 10.22 | 30.22 | 19.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM029 59 14.2N 153 39.7W 07 JUL 0400 + 9 32

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 1 | 588.8 | 0.49 | 1.77 | 0.30 | 0.72 | 10.82 | 29.67 | 11.5 |
| 10 | 736.4 | 0.49 | 2.14 | 0.33 | 0.73 | 10.05 | 30.24 | 15.1 |
| 20 | 750.5 | 0.56 | 2.17 | 0.35 | 0.72 | 9.87 | 30.33 | 15.0 |
| 27 | 838.0 | 0.55 | 2.23 | 0.33 | 0.71 | 9.78 | 30.32 | 16.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM29A 59 6.7N 153 34.1W 07 JUL 0635 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 1 | 494.4 | 0.48 | 1.64 | 0.33 | 0.66 | 10.77 | 29.13 | 10.0 |
| 10 | 512.3 | 0.50 | 2.06 | 0.40 | 0.72 | 10.16 | 29.98 | 10.2 |
| 20 | 615.7 | 0.52 | 2.13 | 0.34 | 0.71 | 9.60 | 30.33 | 12.2 |
| 31 | 674.7 | 0.55 | 2.20 | 0.34 | 0.73 | 9.55 | 30.33 | 13.3 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM030 58 56.9N 153 16.5W 07 JUL 1100 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 1 | 500.1 | 0.75 | 2.08 | 0.43 | 0.67 | 9.69 | 30.13 | 11.1 |
| 10 | 523.2 | 0.79 | 1.94 | 0.48 | 0.66 | 9.38 | 30.34 | 10.3 |
| 20 | 504.2 | 0.77 | 2.19 | 0.37 | 0.60 | 9.18 | 30.67 | 5.9 |
| 36 | 246.7 | 0.74 | 2.25 | 0.55 | 0.66 | 8.91 | 30.88 | 4.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM30A 59 1.2N 153 25.1W 07 JUL 0915 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 1 | 495.5 | 0.60 | 2.55 | 0.39 | 0.64 | 10.55 | 29.54 | 10.0 |
| 10 | 528.6 | 0.62 | 1.69 | 0.36 | 0.62 | 9.73 | 30.16 | 10.5 |
| 20 | 362.4 | 0.78 | 1.94 | 0.38 | 0.60 | 9.41 | 30.39 | 7.5 |
| 37 | 346.5 | 1.03 | 2.08 | 0.48 | 0.57 | 9.05 | 30.68 | 6.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM031 59 0.9N 153 2.7W 08 JUL 0710 + 9 150

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 103.0 | 0.48 | 2.40 | 0.39 | 0.69 | 9.50 | 31.87 | 2.0 |
| 10 | 108.3 | 0.45 | 2.41 | 0.45 | 0.66 | 9.20 | 31.81 | 2.1 |
| 20 | 127.8 | 0.40 | 2.27 | 0.41 | 0.65 | 8.74 | 31.91 | 2.5 |
| 61 | 150.4 | 0.44 | 1.73 | 0.34 | 0.45 | 7.55 | 32.05 | 2.9 |
| 147 | 157.0 | 0.39 | 1.29 | 0.25 | 0.33 | 6.72 | 32.20 | 2.9 |

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| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM31A | 59 9.9N | 153 8.5W | 07 JUL | 1345 | + 9 | 75 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 136.4 | 0.49 | 2.29 | 0.40 | 0.58 | 8.54 | 31.55 | 2.6 |
| 12 | 136.4 | 0.46 | 2.10 | 0.37 | 0.51 | 8.43 | 31.54 | 2.6 |
| 21 | 134.1 | 0.45 | 2.03 | 0.47 | 0.45 | 8.24 | 31.62 | 2.6 |
| 41 | 134.5 | 0.43 | 1.92 | 0.33 | 0.42 | 8.10 | 31.64 | 2.6 |
| 71 | 149.4 | 0.43 | 1.67 | 0.27 | 0.36 | 7.60 | 31.85 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM032 | 59 6.3N | 152 43.1W | 08 JUL | 0400 | + 9 | 147 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 126.9 | 0.50 | 2.23 | 0.37 | 0.60 | 8.83 | 31.97 | 2.5 |
| 11 | 127.0 | 0.44 | 2.25 | 0.33 | 0.62 | 8.47 | 31.96 | 2.4 |
| 21 | 142.8 | 0.40 | 1.80 | 0.28 | 0.49 | 6.10 | 32.00 | 2.7 |
| 62 | 157.7 | 0.40 | 1.56 | 0.32 | 0.38 | 7.59 | 32.05 | 3.0 |
| 144 | 164.2 | 0.40 | 1.42 | 0.25 | 0.36 | 7.05 | 32.14 | 3.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM32A | 59 14.7N | 152 45.5W | 07 JUL | 1630 | + 9 | 111 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 144.3 | 0.40 | 2.01 | 0.45 | 0.62 | 8.99 | 31.74 | 2.8 |
| 12 | 153.0 | 0.44 | 1.95 | 0.29 | 0.45 | 8.54 | 31.86 | 2.9 |
| 21 | 149.3 | 0.43 | 2.10 | 0.29 | 0.46 | 8.43 | 31.87 | 2.9 |
| 61 | 154.7 | 0.41 | 1.78 | 0.29 | 0.37 | 7.90 | 31.98 | 2.9 |
| 108 | 155.2 | 0.40 | 1.70 | 0.27 | 0.35 | 7.55 | 32.07 | 2.9 |

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| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM033 | 59 9.7N | 152 20.3W | 08 JUL | 0100 | + 9 | 107 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 150.5 | 0.40 | 1.83 | 0.44 | 0.43 | 8.15 | 31.88 | 2.9 |
| 12 | 153.0 | 0.41 | 1.84 | 0.41 | 0.46 | 8.10 | 31.84 | 2.9 |
| 20 | 159.1 | 0.43 | 1.83 | 0.32 | 0.45 | 8.07 | 31.85 | 3.0 |
| 61 | 166.8 | 0.45 | 1.58 | 0.27 | 0.33 | 7.56 | 31.91 | 3.5 |
| 108 | 166.1 | 0.45 | 1.53 | 0.29 | 0.35 | 7.57 | 32.08 | 3.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM33A | 59 17.3N | 152 22.8W | 07 JUL | 1930 | + 9 | 88 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 134.5 | 0.49 | 2.46 | 0.60 | 0.71 | 9.27 | 31.72 | 2.6 |
| 10 | 163.0 | 0.49 | 1.79 | 0.46 | 0.39 | 7.81 | 31.89 | 3.1 |
| 20 | 169.2 | 0.44 | 1.80 | 0.36 | 0.37 | 7.83 | 31.88 | 3.2 |
| 41 | 167.2 | 0.46 | 1.77 | 0.31 | 0.36 | 7.79 | 31.91 | 3.2 |
| 83 | 169.0 | 0.44 | 1.69 | 0.27 | 0.34 | 7.78 | 31.92 | 3.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM034 | 59 14.9N | 152 1.5W | 07 JUL | 2205 | + 9 | 65 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 149.9 | 0.48 | 2.29 | 0.37 | 0.63 | 8.87 | 31.70 | 2.9 |
| 10 | 163.0 | 0.48 | 2.10 | 0.40 | 0.56 | 8.63 | 31.70 | 3.1 |
| 20 | 172.2 | 0.47 | 1.95 | 0.44 | 0.48 | 8.35 | 31.71 | 3.3 |
| 41 | 169.0 | 0.47 | 1.95 | 0.32 | 0.44 | 8.25 | 31.70 | 3.2 |
| 61 | 174.8 | 0.46 | 1.74 | 0.42 | 0.40 | 8.17 | 31.72 | 3.3 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM035 59 5.2N 151 56.4W 08 JUL 1855 + 9 170

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 140.2 | 0.56 | 3.53 | 0.55 | 1.03 | 10.15 | 31.39 | 2.8 |
| 20 | 170.0 | 0.54 | 2.27 | 0.41 | 0.57 | 8.79 | 31.55 | 3.3 |
| 40 | 172.8 | 0.52 | 2.09 | 0.41 | 0.53 | 8.62 | 31.60 | 3.3 |
| 101 | 191.8 | 0.40 | 1.26 | 0.26 | 0.28 | 7.13 | 32.01 | 3.6 |
| 165 | 187.3 | 0.42 | 1.24 | 0.24 | 0.27 | 6.87 | 32.16 | 3.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM036 59 0.4N 152 0.6W 08 JUL 2200 + 9 199

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 127.9 | 0.57 | 3.47 | 0.49 | 1.02 | 11.10 | 31.36 | 2.6 |
| 10 | 164.6 | 0.54 | 2.20 | 0.35 | 0.49 | 8.88 | 31.55 | 3.2 |
| 20 | 174.2 | 0.52 | 1.93 | 0.32 | 0.42 | 8.23 | 31.63 | 3.4 |
| 61 | 190.5 | 0.44 | 1.42 | 0.26 | 0.33 | 7.37 | 31.91 | 3.6 |
| 101 | 188.2 | 0.44 | 1.37 | 0.26 | 0.30 | 7.32 | 31.94 | 3.5 |
| 194 | 188.9 | 0.45 | 1.22 | 0.25 | 0.27 | 6.93 | 32.14 | 3.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM037 58 48.8N 152 11.9W 09 JUL 0000 + 9 120

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 2 | 110.8 | 0.47 | 3.11 | 0.48 | 0.93 | 10.71 | 31.51 | 2.2 |
| 11 | 136.9 | 0.44 | 2.05 | 0.35 | 0.55 | 9.07 | 31.76 | 2.7 |
| 20 | 143.7 | 0.43 | 2.01 | 0.40 | 0.55 | 8.89 | 31.81 | 2.8 |
| 61 | 152.7 | 0.40 | 1.66 | 0.28 | 0.40 | 7.98 | 31.93 | 2.9 |
| 117 | 165.8 | 0.41 | 1.51 | 0.27 | 0.34 | 7.40 | 32.11 | 3.1 |

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM038 58 43.2N 152 24.3W 09 JUL 0300 + 9 138

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 191.9 | 0.63 | 2.67 | 0.40 | 1.03 | 10.37 | 30.90 | 3.8 |
| 11 | 154.0 | 0.61 | 2.50 | 0.43 | 0.81 | 9.11 | 31.57 | 3.0 |
| 21 | 141.6 | 0.55 | 2.27 | 0.40 | 0.73 | 8.88 | 31.70 | 2.7 |
| 61 | 172.7 | 0.42 | 1.62 | 0.29 | 0.47 | 7.32 | 32.13 | 3.2 |
| 101 | 203.4 | 0.39 | 1.35 | 0.27 | 0.40 | 6.74 | 32.31 | 3.8 |
| 131 | 263.6 | 0.36 | 1.03 | 0.30 | 0.30 | 6.03 | 32.53 | 4.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM039 58 54.8N 152 29.4W 08 JUL 1520 + 9 157

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 1 | 126.5 | 0.64 | 3.48 | 0.46 | 1.01 | 9.74 | 31.69 | 2.5 |
| 19 | 151.7 | 0.54 | 2.21 | 0.40 | 0.62 | 8.22 | 31.85 | 2.9 |
| 62 | 161.0 | 0.47 | 1.96 | 0.32 | 0.53 | 7.69 | 32.06 | 3.0 |
| 101 | 161.5 | 0.40 | 1.70 | 0.27 | 0.40 | 7.43 | 32.15 | 3.0 |
| 153 | 275.5 | 0.37 | 1.19 | 0.28 | 0.29 | 5.78 | 32.65 | 5.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM040 58 52.9N 152 52.1W 08 JUL 1245 + 9 165

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 114.8 | 0.53 | 3.24 | 0.58 | 1.05 | 10.39 | 31.19 | 2.3 |
| 20 | 118.6 | 0.46 | 2.34 | 0.44 | 0.61 | 8.64 | 31.90 | 2.3 |
| 41 | 142.1 | 0.43 | 1.76 | 0.30 | 0.44 | 7.43 | 32.00 | 2.7 |
| 101 | 147.5 | 0.37 | 1.28 | 0.24 | 0.29 | 6.66 | 32.18 | 2.7 |
| 161 | 244.2 | 0.52 | 1.08 | 0.47 | 0.36 | 6.23 | 32.34 | 4.5 |

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LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB001 | 59 14.3N | 153 38.7W | 06 MAY | 1300 | + 9 | 32 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 15 | 1000.1 | * | 0.91 | 0.33 | 0.22 | 4.37 | 31.21 | 17.5 |
| 25 | 1033.6 | 0.82 | 0.90 | * | * | 4.37 | 31.21 | 18.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB002 | 59 16.7N | 153 19.8W | 15 MAY | 1330 | + 9 | 38 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 32 | 134.1 | T | 0.31 | T | * | 4.95 | 31.33 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB003 | 59 19.8N | 152 59.6W | 15 MAY | 1800 | + 9 | 60 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 111.7 | 0.25 | 0.86 | T | * | 5.40 | 31.55 | 2.0 |
| 54 | 108.6 | 0.24 | 0.74 | 0.07 | * | 4.93 | 31.63 | 1.9 |

CRUISE NUMBER
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LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C8004 | 59 24.1N | 152 38.5W | 15 MAY | 2230 | + 9 | 66 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 55.3 | 0.44 | 1.37 | 0.18 | * | 5.55 | 31.79 | 1.0 |
| 11 | 87.9 | 0.31 | 1.08 | 0.13 | * | 5.56 | 31.79 | 1.5 |
| 20 | 94.2 | 0.36 | 0.86 | 0.14 | * | 5.39 | 31.84 | 1.7 |
| 41 | 98.4 | 0.34 | 0.85 | 0.15 | * | 5.13 | 31.88 | 1.7 |
| 61 | 101.2 | 0.32 | 0.89 | 0.14 | * | 5.18 | 31.91 | 1.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C8005 | 59 25.0N | 152 20.5W | 09 MAY | 0945 | + 9 | 59 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 116.0 | 0.40 | 1.40 | 0.22 | * | 5.00 | 31.90 | 2.0 |
| 20 | 143.3 | 0.42 | 1.31 | 0.29 | * | * | * | * |
| 55 | 121.8 | 0.77 | 1.41 | 0.33 | * | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C8006 | 59 29.2N | 151 59.9W | 10 MAY | 1230 | + 9 | 56 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 143.8 | 0.49 | 1.29 | 0.29 | * | 5.12 | 31.84 | 2.5 |
| 9 | 106.8 | 0.16 | 0.64 | * | * | 5.11 | 31.84 | 1.9 |
| 20 | 174.1 | 0.41 | 1.10 | * | * | 5.11 | 31.85 | 3.1 |
| 40 | 135.8 | 0.67 | 1.68 | * | * | 5.11 | 31.85 | 2.4 |
| 51 | 139.3 | 0.34 | 1.08 | * | * | 5.10 | 31.85 | 2.5 |

CRUISE NUMBER
RP-4-DI-78A-III

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INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| CB07A | 59 35.4N | 151 45.9W | 07 MAY | 0345 | + 9 | 51 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 3 | 252.5 | 1.33 | 4.09 | 0.31 | 0.86 | 5.58 | 31.79 | 4.5 |
| 11 | 271.1 | 0.55 | 1.56 | 0.28 | 0.68 | 5.12 | 31.81 | 4.8 |
| 22 | 292.7 | 0.47 | 1.43 | 0.24 | 0.62 | 4.83 | 31.83 | 5.2 |
| 45 | 357.2 | 0.91 | 1.69 | 0.23 | 0.54 | 4.77 | 31.85 | 6.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| CB07B | 59 35.4N | 151 45.9W | 07 MAY | 0740 | + 9 | 51 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 4 | 511.4 | 0.90 | 2.36 | 0.26 | 0.46 | 5.79 | 31.78 | 9.3 |
| 9 | 421.5 | 0.44 | 1.51 | 0.25 | 0.89 | 5.55 | 31.75 | 7.6 |
| 19 | 470.4 | 0.51 | 1.90 | 0.31 | 0.49 | 4.93 | 31.81 | 8.3 |
| 42 | 492.7 | 1.42 | 1.76 | 0.41 | 0.52 | 4.77 | 31.85 | 8.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| CB07C | 59 35.4N | 151 45.9W | 07 MAY | 1130 | + 9 | 51 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 3 | 234.3 | 0.67 | 2.44 | 0.44 | 0.58 | 5.30 | 31.76 | 4.2 |
| 10 | 390.1 | 0.80 | 1.81 | 0.35 | 0.46 | 5.24 | 31.79 | 7.0 |
| 20 | 474.5 | 0.74 | 1.76 | 0.31 | 1.09 | 5.21 | 31.78 | 8.5 |
| 44 | 412.1 | 0.50 | 1.65 | 0.48 | * | 5.08 | 31.82 | 7.3 |

CRUISE NUMBER
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LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07D 59 35.4N 151 45.9W 07 MAY 1530 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 286.3 | 1.55 | 1.67 | 0.50 | 1.09 | 5.74 | 31.79 | 5.2 |
| 11 | 296.2 | 0.48 | 1.50 | 0.26 | 0.46 | 5.51 | 31.77 | 5.3 |
| 20 | 214.3 | 0.60 | 1.91 | 0.34 | * | 5.09 | 31.84 | 3.8 |
| 46 | 323.7 | 0.45 | 1.36 | 0.28 | 0.37 | 4.91 | 31.86 | 5.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07E 59 35.4N 151 45.9W 07 MAY 1930 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 216.1 | 0.71 | 2.69 | 0.42 | * | 5.78 | 31.81 | 3.9 |
| 20 | 455.2 | 0.79 | 1.52 | 0.30 | 0.38 | 5.08 | 31.81 | 8.1 |
| 42 | 494.3 | 0.92 | 1.62 | 0.25 | 0.41 | 4.86 | 31.83 | 8.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07F 59 35.4N 151 45.9W 08 MAY 0000 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 281.4 | 1.18 | 2.69 | 0.33 | 0.61 | 5.39 | 31.81 | 5.0 |
| 10 | 302.9 | 0.89 | 1.77 | 0.31 | 0.55 | 5.39 | 31.81 | 5.4 |
| 20 | 454.7 | 1.11 | 1.74 | 0.27 | 0.47 | 5.09 | 31.81 | 8.1 |
| 43 | 388.6 | 0.82 | 1.47 | 0.27 | 0.38 | 5.07 | 31.82 | 6.9 |

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07G 59 35.4N 151 45.9W 08 MAY 0415 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 200.6 0.96 1.92 0.35 0.65 5.71 31.79 3.6
10 230.3 1.22 1.75 * 0.25 5.69 31.76 4.1
20 332.5 0.75 1.38 * 0.35 4.99 31.84 5.9
45 358.5 0.71 1.29 * 0.33 4.85 31.85 6.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07H 59 35.4N 151 45.9W 08 MAY 0830 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 325.4 1.18 2.45 0.28 * 5.27 31.78 5.8
12 335.9 0.86 1.55 0.29 0.30 5.30 31.82 6.0
21 371.1 0.72 1.52 * 0.33 5.24 31.80 6.6
38 437.8 0.89 1.53 0.26 * 5.04 31.79 7.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07I 59 35.4N 151 45.9W 08 MAY 1200 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 232.0 0.83 1.75 0.36 0.83 5.40 31.77 4.1
10 306.1 0.96 1.84 0.28 0.75 5.37 31.76 5.5
20 373.5 0.70 1.61 0.30 0.72 5.12 31.79 6.7
45 452.7 0.70 1.59 0.57 0.67 5.05 31.82 8.1

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07J 59 35.4N 151 45.9W 08 MAY 1615 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

8 374.6 1.16 1.58 0.35 * 5.82 31.83 6.8
21 363.9 0.75 1.53 0.29 0.62 5.08 31.83 6.5
44 366.2 0.73 1.41 0.27 0.52 4.96 31.85 6.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07K 59 35.4N 151 45.9W 08 MAY 2030 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 308.7 1.19 2.26 0.36 0.74 5.54 31.82 5.6
10 315.0 1.14 2.05 0.25 0.62 5.47 31.80 5.7
18 346.3 0.81 1.77 0.33 0.67 5.36 31.81 6.2
43 488.2 0.77 1.50 0.24 0.61 4.94 31.82 8.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB07L 59 35.4N 151 45.9W 09 MAY 0000 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 307.7 0.88 1.76 0.30 0.69 5.43 31.78 5.5
10 379.8 0.86 1.66 0.29 0.67 5.39 31.77 6.8
19 371.5 0.76 1.67 0.29 0.71 5.28 31.79 6.6
45 413.1 1.10 1.88 0.28 0.65 5.16 31.82 7.4

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C807M | 59 35.4N | 151 45.9W | 09 MAY | 0415 | + 9 | 51 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 300.7 | 1.55 | 2.39 | * | * | 5.52 | 31.81 | 5.4 |
| 10 | 292.1 | 0.58 | 1.86 | 0.35 | 0.66 | 5.51 | 31.81 | 5.2 |
| 20 | 287.3 | 0.54 | 1.61 | 0.30 | 0.67 | 5.39 | 31.82 | 5.1 |
| 49 | 330.7 | 0.56 | 1.39 | 0.32 | 0.32 | 5.05 | 31.84 | 5.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C8008 | 59 39.3N | 151 16.7W | 09 MAY | 1830 | + 9 | 31 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 1375.8 | 0.88 | 2.37 | 0.38 | 0.70 | 5.59 | 31.54 | 24.9 |
| 10 | 1458.2 | 0.90 | 2.21 | * | 0.65 | 5.30 | 31.55 | 26.2 |
| 27 | 1710.0 | 0.85 | 1.87 | * | * | 4.92 | 31.65 | 30.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C809A | 60 28.2N | 152 12.2W | 12 MAY | 2030 | + 9 | 35 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 315.7 | 0.73 | 1.11 | * | * | 4.68 | 30.68 | 5.5 |
| 20 | 304.8 | 0.17 | 0.47 | 0.08 | * | 4.68 | 30.67 | 5.3 |
| 32 | 304.2 | 0.17 | 0.46 | 0.07 | * | 4.68 | 30.67 | 5.3 |

CRUISE NUMBER
RP-4-DI-78A-111

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09B 60 28.2N 152 12.2W 13 MAY 0900 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

10 327.0 0.68 1.02 0.15 0.20 4.82 30.41 5.7
19 300.3 0.78 1.43 0.08 * 4.71 30.55 5.2
31 281.5 0.69 1.00 0.11 0.14 4.73 30.59 4.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09C 60 28.2N 152 12.2W 13 MAY 1500 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

5 354.9 0.60 0.81 0.08 0.12 4.75 30.44 6.2
10 360.3 0.63 1.05 0.10 0.13 4.72 30.44 6.3
20 365.4 0.67 1.05 0.06 * 4.71 30.42 6.4
29 366.0 0.58 0.96 0.11 * 4.71 30.42 6.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09D 60 28.2N 152 12.2W 13 MAY 2145 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

19 302.0 * * 0.35 0.25 4.79 30.57 5.3
33 273.3 0.12 0.19 * * 4.79 30.58 4.8

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09E 60 28.2N 152 12.2W 14 MAY 0300 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 394.6 0.22 0.59 * * 4.89 30.41 6.9
32 311.6 0.27 0.51 * * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09F 60 28.2N 152 12.2W 14 MAY 0930 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 298.5 * 0.51 0.20 0.25 4.98 30.39 5.2
33 281.0 T 0.27 0.10 * 4.82 30.57 4.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB09G 60 28.2N 152 12.2W 14 MAY 2200 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 311.5 0.43 1.01 0.24 * 4.89 30.56 5.5
33 312.2 0.40 0.50 * * 4.89 30.56 5.5

CRUISE NUMBER
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LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10A | 60 31.1N | 151 30.9W | 10 MAY | 2030 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 427.2 | 0.39 | 0.26 | 0.08 | * | 4.09 | 29.53 | 7.3 |
| 10 | 425.8 | 0.53 | 0.33 | * | * | 4.09 | 29.52 | 7.3 |
| 21 | 428.1 | 0.44 | 0.28 | 0.10 | * | 4.09 | 29.52 | 7.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10B | 60 31.1N | 151 30.9W | 11 MAY | 0200 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 3 | 437.8 | 0.98 | 0.28 | 0.26 | * | * | * | * |
| 10 | 433.4 | 0.98 | 0.22 | * | * | * | * | * |
| 18 | 426.8 | 0.91 | 0.15 | 0.21 | * | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10C | 60 31.1N | 151 30.9W | 11 MAY | 0800 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 417.8 | 0.46 | 0.76 | 0.13 | 0.22 | 4.16 | 29.59 | 7.1 |
| 10 | 412.4 | 0.38 | 0.30 | * | * | 4.11 | 29.57 | 7.0 |
| 23 | 410.1 | 0.38 | 0.18 | 0.07 | * | 4.10 | 29.56 | 7.0 |

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LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10D 60 31.1N 151 30.9W 11 MAY 1400 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 339.5 0.60 0.28 0.15 0.19 4.41 29.30 5.8
10 358.2 0.54 0.35 T * 4.39 29.28 6.1
17 359.2 0.42 * * * 4.31 29.29 6.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10E 60 31.1N 151 30.9W 11 MAY 2000 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 415.0 0.42 T 0.07 * 4.22 29.49 7.1
10 407.0 0.41 0.15 * * 4.22 29.50 7.0
20 404.3 0.38 T 0.09 * 4.22 29.49 6.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10F 60 31.1N 151 30.9W 12 MAY 0200 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 412.2 0.68 0.07 0.16 * 4.17 29.14 7.0
10 409.9 0.59 T 0.10 * 4.18 29.16 7.0
17 403.4 0.48 0.15 0.10 * 4.18 29.16 6.9

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COOK INLET

INCLUSIVE DATES
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC002 61 5.3N 150 59.2W 12 MAY 1150 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 659.9 0.71 0.44 0.26 0.26 * 23.75 *
30 690.7 1.56 0.46 0.58 0.21 3.80 25.50 11.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC003 60 59.7N 151 0.5W 12 MAY 1230 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 639.1 0.24 0.37 * * * 24.90 *
30 634.4 0.43 0.28 * * 3.78 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC005 61 0.6N 151 11.1W 12 MAY 1310 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 748.7 1.10 0.34 0.48 * 4.02 24.68 12.4
20 750.6 1.10 0.34 0.43 0.10 * 24.68 *

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COOK INLET

INCLUSIVE DATES
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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC006 60 56.0N 151 29.0W 12 MAY 1355 + 9 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 1718.2 3.43 0.43 1.02 0.20 * 25.53 *
15 1754.4 3.44 0.31 1.01 0.17 4.41 25.56 29.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC007 60 55.2N 151 22.0W 12 MAY 1435 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 771.5 3.14 0.34 1.55 0.71 3.83 26.28 12.8
30 816.0 2.99 0.26 1.27 0.12 3.98 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC008 60 55.2N 151 9.5W 12 MAY 1540 + 9 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 704.3 1.88 0.25 0.32 0.15 * * *
15 866.8 3.29 0.48 0.77 0.32 3.85 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC010 60 49.4N 151 11.0W 12 MAY 1600 + 9 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 138.0 0.40 0.63 0.37 * 4.61 25.60 2.3

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STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC011 60 48.9N 151 25.0W 12 MAY 1700 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 295.1 1.15 0.48 0.41 * * 27.44 *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC012 60 49.6N 151 35.0W 11 MAY 1525 + 9 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 770.9 2.39 0.23 0.88 0.12 * 26.56 *
50 864.0 3.47 0.18 1.44 * 3.81 27.04 14.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC013 60 46.8N 151 41.5W 11 MAY 1610 + 9 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 1015.0 9.12 0.24 4.83 0.37 * 27.15 *
10 971.4 5.98 0.20 2.45 0.07 4.01 27.36 16.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC014 60 46.5N 151 28.7W 11 MAY 1705 + 9 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 553.2 4.29 0.23 2.08 0.35 * 28.19 *
15 538.8 4.03 0.27 1.98 * * 28.18 *

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INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UCC15 | 60 47.3N | 151 20.5W | 11 MAY | 1430 | + 9 | 21 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 150.1 | 0.17 | 0.23 | * | 0.11 | * | 26.72 | * |
| 21 | 150.2 | 0.18 | 0.29 | * | * | 4.44 | 26.75 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC016 | 60 42.8N | 151 26.0W | 11 MAY | 1340 | + 9 | 49 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 162.9 | 0.36 | 0.22 | 0.08 | 0.05 | 4.67 | 27.30 | 2.7 |
| 30 | 168.3 | 0.17 | 0.32 | 0.11 | * | * | 27.56 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UCC17 | 60 41.0N | 151 36.8W | 10 MAY | 1240 | + 9 | 128 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 751.2 | 2.37 | 0.40 | 0.69 | 0.08 | 3.91 | 28.39 | 12.7 |
| 50 | 744.0 | 2.24 | 0.13 | 0.81 | T | * | 28.40 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC19A | 59 35.1N | 152 1.2W | 10 MAY | 1100 | + 9 | 27 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 378.4 | 0.35 | 0.39 | 0.11 | 0.13 | 4.49 | 30.16 | 0.6 |
| 20 | 362.6 | 0.32 | 0.42 | 0.08 | 0.14 | * | 30.16 | * |

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC026 60 18.9N 152 12.2W 14 MAY 2345 + 9 101

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 307.2 * 0.60 * * 4.92 30.67 5.4
98 324.1 0.22 0.57 * * 4.87 30.70 5.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC027 60 9.5N 152 20.4W 15 MAY 0030 + 9 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 337.9 0.24 0.67 * * 4.91 30.68 5.9
49 370.8 0.45 0.62 * * 4.83 30.69 6.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC028 60 9.8N 151 57.0W 15 MAY 0300 + 9 58

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 283.4 0.55 0.49 * 0.28 5.35 30.34 5.0
53 331.9 0.85 1.38 0.22 * 5.56 31.40 6.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC030 60 9.4N 151 45.2W 15 MAY 0400 + 9 38

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

33 427.1 0.67 1.07 * * 5.42 30.85 7.6

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC032 | 59 50.8N | 152 21.2W | 15 MAY | 0750 | + 9 | 78 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 257.9 | 0.53 | 0.48 | * | * | 5.28 | 30.90 | 4.6 |
| 73 | 179.1 | 1.33 | 1.43 | * | * | 5.04 | 31.54 | 3.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC033 | 59 49.7N | 151 59.5W | 15 MAY | 0630 | + 9 | 37 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 372.0 | 0.74 | 2.17 | 0.36 | 1.11 | 5.78 | 31.65 | 6.7 |
| 32 | 353.0 | 1.10 | 2.31 | 0.33 | 1.20 | 5.78 | 31.66 | 6.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| ST001 | 59 10.9N | 153 19.3W | 15 MAY | 1500 | + 9 | 38 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 152.4 | 0.31 | 0.85 | * | * | 5.47 | 30.73 | 2.7 |
| 33 | 155.9 | 0.20 | 0.35 | * | * | 4.73 | 31.36 | 2.7 |

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
MFO01 59 14.0N 153 40.0W 09 MAY 0330 + 9 34

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 1 | 370.7 | 0.37 | 0.52 | 0.09 | * | * | * | * |
| 2 | 377.9 | 0.27 | 0.40 | 0.08 | * | * | * | * |
| 3 | 376.8 | 0.24 | 0.44 | 0.07 | * | * | * | * |
| 5 | 369.3 | 0.32 | 0.38 | 0.08 | * | * | * | * |
| 10 | 338.6 | 0.29 | 0.38 | T | * | * | * | * |
| 15 | 392.8 | 0.31 | 0.42 | 0.13 | * | * | * | * |
| 20 | 388.5 | 0.38 | 0.45 | 0.07 | * | * | * | * |
| 25 | 475.0 | 0.42 | 0.47 | 0.08 | * | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
MFO7A 59 33.3N 151 40.0W 09 MAY 1130 + 9 73

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 237.9 | 0.57 | 1.80 | 0.24 | 0.68 | 5.37 | 31.80 | 4.2 |
| 2 | 235.9 | 0.64 | 1.61 | 0.23 | 0.68 | 5.37 | 31.80 | 4.2 |
| 3 | 220.2 | 0.72 | 1.58 | 0.45 | * | 5.37 | 31.80 | 3.9 |
| 5 | 228.0 | 0.57 | 1.67 | 0.21 | 0.73 | 5.36 | 31.80 | 4.1 |
| 7 | 223.3 | 0.68 | 1.72 | 0.26 | 0.80 | 5.35 | 31.79 | 4.0 |
| 8 | 225.5 | 0.66 | 1.74 | 0.23 | 0.67 | 5.35 | 31.78 | 4.0 |
| 12 | 263.5 | 0.67 | 1.66 | 0.24 | 0.62 | 5.21 | 31.76 | 4.7 |
| 15 | 294.2 | 0.64 | 1.61 | 0.28 | 0.59 | 5.07 | 31.78 | 5.2 |
| 25 | 346.7 | 0.58 | 1.39 | 0.23 | 0.45 | 4.85 | 31.81 | 6.1 |
| 50 | 592.2 | 0.62 | 1.14 | 0.22 | 0.20 | 4.64 | 31.84 | 10.4 |

CRUISE NUMBER
RP-4-DI-78A-III

LOCATION
COOK INLET

INCLUSIVE DATES
04 MAY-17 MAY 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| MFG7B | 59 33.3N | 151 40.0W | 10 MAY | 0300 | + 9 | 73 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 260.0 | 0.75 | 1.41 | 0.56 | * | 5.22 | 31.80 | 4.6 |
| 3 | 257.4 | 1.01 | 1.34 | 0.29 | * | 5.22 | 31.80 | 4.6 |
| 7 | 255.9 | 0.49 | 1.50 | 0.27 | * | 5.22 | 31.80 | 4.6 |
| 9 | 245.2 | 0.44 | 1.41 | 0.25 | * | 5.22 | 31.80 | 4.4 |
| 12 | 242.5 | 0.43 | 1.36 | 0.25 | * | 5.23 | 31.80 | 4.3 |
| 15 | 244.1 | 0.43 | 1.45 | 0.26 | 0.36 | 5.22 | 31.81 | 4.3 |
| 25 | 258.3 | 0.84 | 1.45 | 0.26 | 0.36 | 5.13 | 31.82 | 4.6 |
| 50 | 269.6 | 0.43 | 1.38 | 0.26 | * | 5.04 | 31.82 | 4.8 |

CRUISE NUMBER
RP-4-DI-788-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB001 59 14.0N 153 41.7W 30 AUG 2245 + 9 33

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 440.9 0.09 0.65 0.13 0.19 12.02 29.97 9.2
10 475.6 0.28 1.35 0.19 0.46 11.93 30.01 9.9
28 605.5 0.29 1.72 0.24 0.41 11.63 30.10 12.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB002 59 16.8N 153 19.6W 30 AUG 1745 + 9 36

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 226.3 0.36 1.81 0.29 * 11.49 29.88 4.6
10 225.2 0.31 1.62 0.24 0.43 11.49 29.89 4.6
20 221.0 0.39 1.64 0.25 * 11.49 29.92 4.5
31 218.5 0.36 1.75 0.25 0.45 11.47 30.04 4.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB003 59 19.5N 153 0.4W 30 AUG 1410 + 9 64

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 228.7 0.49 2.00 0.29 0.43 11.00 30.21 4.6
9 224.4 0.40 1.90 0.29 0.48 11.00 30.20 4.6
19 212.5 0.42 1.80 0.26 0.52 10.61 30.63 4.3
56 231.0 0.50 1.87 0.34 0.41 9.51 31.76 4.5

CRUISE NUMBER
RP-4-D1-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB004 59 22.6N 152 40.5W 30 AUG 0835 + 9 60

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3. 236.8 0.31 1.66 0.24 * 11.50 29.76 4.8
10 239.9 0.34 1.79 0.27 0.24 11.50 29.76 4.9
21 250.3 0.41 2.20 * 0.73 10.89 30.49 5.1
57 195.3 0.52 * 0.60 1.26 9.24 31.53 3.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB005 59 25.9N 152 20.4W 30 AUG 0525 + 9 71

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 168.3 0.41 1.79 0.26 0.41 10.71 30.65 3.4
9 167.2 0.35 1.79 0.27 0.62 9.91 31.20 3.3
20 196.8 0.40 2.82 0.30 * 9.14 31.63 3.9
66 209.9 0.45 2.25 0.29 0.69 8.92 31.65 4.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB006 59 30.5N 151 39.3W 29 AUG 2335 + 9 49

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 164.0 0.48 2.00 0.33 0.54 11.04 30.56 3.3
10 160.9 0.43 1.83 0.31 0.53 9.37 31.47 3.2
21 213.5 0.46 1.99 0.31 0.53 9.19 31.55 4.2
46 227.7 0.44 2.04 0.31 0.55 9.17 31.55 4.5

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB007 59 33.2N 151 40.0W 29 AUG 1835 + 9 82

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 3 | 768.6 | 0.76 | 4.77 | 0.62 | 1.39 | 10.88 | 30.44 | 15.7 |
| 5 | 817.9 | 0.86 | 4.79 | 0.73 | 1.45 | 10.79 | 30.47 | 16.7 |
| 20 | 859.1 | 0.74 | 3.31 | 0.66 | 0.92 | 9.60 | 31.36 | 17.1 |
| 75 | 376.2 | 0.53 | 2.03 | 0.43 | 0.55 | 9.01 | 31.55 | 7.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB008 59 39.2N 151 17.1W 29 AUG 1400 + 9 29

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|--------|------|------|------|------|-------|-------|------|
| 6 | 1269.8 | 1.07 | 3.35 | 0.61 | 1.14 | 12.01 | 27.52 | 26.1 |
| 10 | 3071.7 | 0.60 | 3.46 | 0.66 | 0.88 | 9.57 | 30.93 | 61.2 |
| 26 | 2946.4 | 0.84 | 3.43 | 0.74 | 0.77 | 9.10 | 31.29 | 58.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10A 60 22.8N 151 51.5W 31 AUG 1045 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 2 | 281.9 | 0.77 | 0.89 | 0.39 | 0.23 | 12.85 | 25.50 | 5.8 |
| 16 | 282.1 | 0.47 | 1.07 | 0.26 | 0.25 | 12.22 | 27.60 | 5.8 |

CRUISE NUMBER
RP-4-D1-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB108 | 60 22.8N | 151 51.5W | 31 AUG | 1435 | + 9 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 408.0 | 1.01 | 1.04 | 0.54 | T | 12.83 | 25.35 | 8.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10C | 60 22.8N | 151 51.5W | 31 AUG | 1810 | + 9 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 21 | 404.4 | 0.62 | 1.64 | 0.33 | 0.47 | 11.83 | 28.44 | 8.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10D | 60 22.8N | 151 51.5W | 31 AUG | 2350 | + 9 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 276.5 | 0.64 | 0.80 | 0.38 | 0.23 | 12.65 | 25.92 | 5.7 |
| 16 | 303.1 | 0.55 | 1.15 | 0.29 | 0.33 | 12.28 | 27.54 | 6.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CB10E | 60 22.8N | 151 51.5W | 01 SEP | 0220 | + 9 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 383.3 | 1.36 | 0.73 | 0.76 | 0.17 | 12.72 | 25.04 | 7.9 |
| 20 | 392.3 | 0.93 | 1.22 | 0.53 | 0.33 | 12.37 | 26.50 | 8.1 |

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10F 60 22.8N 151 51.5W 01 SEP 0600 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 354.9 1.25 0.69 0.73 0.17 12.56 25.01 7.2
19 393.3 0.76 1.30 0.42 0.23 12.17 27.46 8.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10G 60 22.8N 151 51.5W 01 SEP 1035 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 221.5 0.46 0.77 0.27 0.22 12.42 27.12 4.5
16 305.3 0.45 1.08 0.27 0.30 12.22 27.48 6.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10H 60 22.8N 151 51.5W 01 SEP 1410 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 396.7 0.89 1.07 0.46 T 12.65 26.09 8.2
20 388.1 0.79 1.17 0.43 0.29 12.22 27.16 8.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10I 60 22.8N 151 51.5W 01 SEP 1800 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 367.0 0.84 1.14 0.45 0.30 12.37 26.92 8.0
19 383.3 0.66 1.39 0.38 0.38 11.86 28.17 7.9

CRUISE NUMBER
RP-4-DI-788-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10J 60 22.8N 151 51.5W 01 SEP 2240 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 262.6 0.41 1.05 0.25 0.27 12.51 27.25 5.4
16 279.6 0.43 1.08 0.26 0.27 12.45 27.39 5.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10K 60 22.8N 151 51.5W 02 SEP 0200 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 394.5 0.95 1.06 0.51 0.35 12.40 26.72 8.1
20 370.7 0.71 1.25 0.35 0.30 12.15 27.58 7.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10L 60 22.8N 151 51.5W 02 SEP 0600 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 369.4 0.60 1.45 0.33 0.47 12.28 26.89 7.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CB10M 60 22.8N 151 51.5W 02 SEP 1010 + 9 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 308.2 0.43 1.11 0.26 0.29 12.19 27.53 6.3
16 311.6 0.42 1.12 0.27 0.31 12.20 27.54 6.4

CRUISE NUMBER
RP-4-DI-78B-11

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC001 61 8.4N 150 47.3W 31 AUG 1350 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 352.2 0.43 0.50 0.17 0.18 14.36 12.96 6.9
23 351.4 0.45 0.42 0.19 0.16 14.18 14.39 6.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC002 61 0.3N 151 5.4W 31 AUG 1530 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

5 442.4 1.94 0.36 1.09 0.12 13.62 18.72 8.9
30 465.4 2.93 0.43 1.84 0.11 13.64 20.11 9.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC003 61 1.8N 150 56.7W 31 AUG 1610 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 349.6 0.89 0.26 0.41 T 13.50 19.26 7.0
30 364.1 1.07 0.29 0.49 0.06 13.80 19.43 7.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC005 60 55.0N 151 26.4W 01 SEP 1229 + 9 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 412.1 2.09 0.40 1.28 T 13.78 18.96 8.3
30 483.9 2.22 0.44 1.30 0.11 13.62 19.63 9.8

CRUISE NUMBER
RP-4-DI-788-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC006 | 60 55.6N | 151 4.5W | 31 AUG | 1710 | + 9 | 29 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 3 | 482.4 | 1.95 | 0.37 | 1.02 | T | 13.52 | 21.06 | 9.8 |
| 20 | 481.8 | 2.01 | 0.51 | 1.08 | 0.12 | 13.56 | 21.16 | 9.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC008 | 60 46.4N | 151 23.0W | 01 SEP | 1500 | + 9 | 23 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 3 | 329.4 | 0.81 | 0.71 | 0.41 | 0.14 | 13.27 | 23.22 | 6.7 |
| 10 | 338.1 | 0.94 | 1.23 | 0.43 | 0.25 | 13.27 | 23.22 | 6.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC009 | 60 48.2N | 151 40.0W | 01 SEP | 1410 | + 9 | 50 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 3 | 659.3 | 5.21 | 0.52 | 3.60 | 0.00 | 13.38 | 21.42 | 13.4 |
| 30 | 692.0 | 5.47 | 0.51 | 4.45 | 0.11 | 13.27 | 21.76 | 14.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC09A | 60 52.1N | 151 30.5W | 01 SEP | 1315 | + 9 | 55 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 3 | 523.7 | 3.18 | 0.48 | 2.04 | T | 13.46 | 21.32 | 10.7 |
| 30 | 535.7 | 3.12 | 0.47 | 0.81 | 0.09 | 13.40 | 21.41 | 10.9 |

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC010 | 60 41.3N | 151 40.8W | 01 SEP | 1715 | + 9 | 23 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 3 | 469.1 | 1.96 | 0.88 | 1.17 | 0.24 | 12.68 | 24.98 | 9.6 |
| 10 | 457.1 | 1.64 | 1.00 | 1.00 | 0.25 | 12.59 | 25.98 | 9.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| CBS1A | 59 14.1N | 153 38.5W | 16 AUG | 1315 | + 9 | 33 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 1061.0 | 0.66 | 2.94 | 0.39 | 0.92 | 12.56 | 30.10 | 21.2 |
| 2 | 1219.6 | 0.85 | 3.06 | 1.05 | 1.02 | 12.54 | 30.11 | 25.8 |
| 4 | 1152.7 | 0.77 | 2.85 | 0.39 | 0.91 | 12.55 | 30.09 | 24.4 |
| 5 | 1129.2 | 0.70 | 2.90 | 0.40 | 0.99 | 12.56 | 30.10 | 23.9 |
| 7 | 915.0 | 0.56 | 2.56 | 0.37 | 0.82 | 12.52 | 30.10 | 19.4 |
| 10 | 1168.0 | 1.20 | 2.58 | 0.46 | 0.93 | 12.09 | 30.13 | 24.5 |
| 14 | 1924.1 | 0.61 | 2.64 | 0.39 | 0.73 | 11.93 | 30.13 | 40.2 |
| 20 | 1410.4 | 0.57 | 2.30 | 0.38 | 0.31 | 11.81 | 30.14 | 29.4 |
| 25 | 1496.1 | 1.05 | 2.31 | 0.36 | 0.64 | 11.80 | 30.14 | 31.2 |

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CBS18 59 14.3N 153 37.4W 18 AUG 1310 + 9 35

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 328.8 | 0.59 | 2.25 | 0.33 | 0.64 | 12.23 | 30.09 | 6.9 |
| 2 | 344.9 | 0.53 | 2.16 | 0.33 | 0.65 | 12.24 | 30.08 | 7.2 |
| 3 | 345.3 | 0.63 | 2.40 | 0.33 | 0.80 | 12.25 | 30.09 | 7.2 |
| 4 | 341.9 | 0.67 | 2.26 | 0.35 | 0.72 | 12.25 | 30.07 | 7.2 |
| 6 | 339.6 | 0.66 | 2.16 | 0.33 | 0.62 | 12.23 | 30.09 | 7.1 |
| 7 | 362.3 | 0.61 | 2.35 | 0.33 | 0.64 | 12.23 | 30.08 | 7.6 |
| 9 | 364.9 | 0.75 | 2.32 | 0.34 | 0.70 | 12.19 | 30.06 | 7.6 |
| 12 | 410.7 | 0.58 | 2.37 | 0.29 | * | 12.03 | 30.08 | 8.6 |
| 20 | 619.1 | 0.65 | 2.31 | 0.36 | 0.83 | 11.95 | 30.09 | 12.9 |
| 25 | 668.2 | 0.66 | 2.36 | 0.36 | 0.74 | 11.94 | 30.09 | 13.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CBS04 59 24.3N 152 39.3W 15 AUG 1935 + 9 60

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 136.3 | 0.58 | 2.43 | 0.43 | 0.94 | 9.99 | 30.93 | 2.7 |
| 6 | 157.0 | 0.80 | 2.67 | 0.46 | 0.66 | 9.74 | 31.31 | 3.1 |
| 9 | 152.1 | 0.58 | 2.45 | 0.40 | * | 9.70 | 31.33 | 3.0 |
| 11 | 150.4 | 0.59 | 2.49 | 0.40 | 0.75 | 9.60 | 31.35 | 3.0 |
| 16 | 149.6 | 0.56 | 2.38 | 0.38 | 0.58 | 9.52 | 31.43 | 2.9 |
| 19 | 163.2 | 0.64 | 2.52 | 0.40 | 0.75 | 9.50 | 31.44 | 3.2 |
| 25 | 172.3 | 0.65 | 2.51 | 0.40 | 0.68 | 9.29 | 31.55 | 3.4 |
| 30 | 169.8 | 0.62 | 2.45 | 0.36 | 0.69 | 9.23 | 31.57 | 3.3 |
| 40 | 155.7 | 0.63 | 2.24 | 0.40 | 0.61 | 9.12 | 31.63 | 3.0 |
| 50 | 165.7 | 0.56 | 2.12 | 0.36 | 0.62 | 8.82 | 31.71 | 3.2 |

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CBS7A 59 33.2N 151 37.7W 15 AUG 1340 + 9 80

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 1 | 387.9 | 0.87 | 5.52 | 0.57 | 1.78 | 11.60 | 29.55 | 8.0 |
| 2 | 359.1 | 0.83 | 5.13 | 0.54 | 1.67 | 11.60 | 29.53 | 7.4 |
| 4 | 422.9 | 0.93 | 5.82 | 0.56 | 1.88 | 11.59 | 29.55 | 8.7 |
| 5 | 430.1 | 0.83 | 5.35 | 0.55 | 1.99 | 11.55 | 29.76 | 8.9 |
| 7 | * | 0.70 | 3.75 | 0.56 | 1.42 | 11.04 | 30.98 | * |
| 10 | 286.4 | 0.97 | 4.43 | 0.65 | * | 10.83 | 31.19 | 5.8 |
| 15 | 238.9 | 1.00 | 3.45 | 0.54 | 0.95 | 10.42 | 31.34 | 4.8 |
| 21 | 255.0 | 0.82 | 3.40 | 0.55 | 0.90 | 9.90 | 31.37 | 5.1 |
| 30 | 362.2 | 0.77 | 3.37 | 0.57 | 1.15 | 9.42 | 31.52 | 7.2 |
| 50 | 556.4 | 0.77 | 3.05 | 0.47 | 0.79 | 9.05 | 31.53 | 10.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
CBS7B 59 33.7N 151 40.0W 16 AUG 2030 + 9 82

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 0 | 283.0 | 1.00 | 4.06 | 0.60 | 1.33 | 10.52 | 31.28 | 5.7 |
| 2 | 305.1 | 0.87 | 3.85 | 0.57 | 1.32 | 10.48 | 31.30 | 6.2 |
| 4 | 314.3 | 0.94 | 3.92 | 0.60 | 1.29 | 10.44 | 31.31 | 6.4 |
| 6 | 304.9 | 0.81 | 3.66 | 0.60 | 1.24 | 10.30 | 31.30 | 6.1 |
| 18 | 644.0 | 1.22 | 5.41 | 0.57 | 0.94 | 9.57 | 31.42 | 12.8 |
| 24 | 310.8 | 0.69 | 3.27 | 0.48 | 0.92 | 9.41 | 31.48 | 6.1 |
| 35 | 304.1 | 0.61 | 2.91 | 0.47 | 0.84 | 9.35 | 31.49 | 6.0 |
| 50 | 459.6 | 0.98 | 3.02 | 0.53 | 0.52 | 9.10 | 31.53 | 9.0 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| LCC01 | 58 58.1N | 153 10.0W | 13 MAY | 0200 | + 9 | 143 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 154.4 | 1.30 | * | 0.23 | 0.31 | 4.76 | 31.49 | 2.7 |
| 20 | 123.3 | 0.62 | 0.98 | 0.25 | 0.33 | 5.22 | 32.06 | 2.2 |
| 42 | 123.7 | 0.58 | 1.12 | 0.26 | * | 4.87 | 32.11 | 2.2 |
| 101 | 130.3 | 0.56 | 0.75 | 0.19 | 0.19 | 4.64 | 32.52 | 2.3 |
| 134 | 130.3 | 0.45 | 0.78 | 0.17 | T | 4.64 | 32.25 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| LCC07 | 59 28.2N | 153 13.4W | 13 MAY | 1100 | + 9 | 35 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 316.0 | * | * | 0.23 | 0.38 | 4.37 | 31.27 | 5.5 |
| 10 | 339.3 | 0.55 | 1.02 | 0.18 | 0.33 | 4.55 | 31.35 | 5.9 |
| 22 | 339.6 | 0.46 | 1.00 | 0.14 | 0.32 | 4.55 | 31.41 | 5.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| LC010 | 59 33.3N | 152 5.1W | 12 MAY | 1915 | + 9 | 44 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 146.9 | 0.79 | 1.67 | 0.32 | 0.53 | 5.06 | 32.01 | 2.6 |
| 20 | 143.9 | 0.75 | 1.31 | 0.22 | 0.48 | 5.01 | 32.08 | 2.5 |
| 36 | 143.6 | 0.73 | 1.31 | 0.23 | 0.39 | 5.01 | 32.07 | 2.5 |

CRUISE NUMBER
RP-4-DI-79A-11

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC012 59 48.2N 152 12.4W 13 MAY 2030 + 9 52

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 194.7 | * | * | * | 0.50 | 4.96 | 31.97 | 3.4 |
| 20 | 179.0 | 0.65 | 1.42 | 0.37 | 0.48 | 4.97 | 32.05 | 3.2 |
| 40 | 174.3 | * | 2.21 | 0.27 | 0.47 | 4.98 | 32.05 | 3.1 |
| 45 | 173.2 | 0.94 | 1.72 | 0.29 | 0.71 | 4.98 | 32.05 | 3.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC014 59 47.0N 152 54.9W 13 MAY 1755 + 9 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 549.5 | * | * | 0.15 | 0.42 | 4.64 | 30.98 | 9.6 |
| 9 | 544.0 | 0.63 | 1.21 | 0.19 | 0.45 | 4.63 | 31.02 | 9.5 |
| 23 | 550.2 | 0.36 | 1.15 | 0.14 | 0.39 | 4.63 | 31.00 | 9.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC020 60 20.2N 151 41.2W 14 MAY 0245 + 9 42

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|--------|------|------|------|------|------|-------|------|
| 1 | 2721.5 | 0.85 | 0.44 | 0.14 | 0.14 | 4.13 | 29.68 | 46.8 |
| 20 | 2701.8 | 0.71 | 0.39 | 0.10 | 0.08 | 4.15 | 29.75 | 46.5 |
| 35 | 2705.9 | 0.94 | 0.42 | 0.18 | 0.09 | 4.15 | 29.75 | 46.6 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC021 59 18.7N 152 11.7W 16 MAY 1900 + 9 104

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 0 | 861.6 | 0.41 | 0.70 | 0.11 | 0.17 | 4.58 | 30.74 | 15.1 |
| 21 | 894.1 | 0.38 | 0.78 | 0.11 | 0.22 | 4.57 | 30.73 | 15.6 |
| 40 | 894.1 | 0.43 | 0.86 | * | 0.18 | 4.56 | 30.74 | 15.6 |
| 63 | 850.3 | 0.35 | 0.85 | 0.11 | 0.16 | 4.54 | 30.75 | 14.9 |
| 94 | 862.2 | 0.41 | 0.91 | 0.11 | 0.11 | 4.54 | 30.74 | 15.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC032 59 14.5N 152 33.5W 12 MAY 1130 + 9 73

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 115.2 | 0.77 | 1.76 | 0.24 | 0.43 | 4.81 | 32.13 | 2.0 |
| 11 | 110.3 | 0.54 | 1.02 | 0.16 | 0.33 | 4.80 | 32.13 | 1.9 |
| 20 | 114.0 | 0.65 | 1.08 | 0.20 | 0.36 | 4.80 | 32.12 | 2.0 |
| 66 | 112.6 | 0.75 | 1.08 | 0.18 | 0.42 | 4.79 | 32.12 | 2.0 |
| 73 | 112.6 | 0.64 | 1.06 | 0.18 | 0.34 | 4.79 | 32.12 | 2.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC033 59 18.6N 153 12.4W 13 MAY 0000 + 9 61

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 258.0 | 0.53 | 1.06 | 0.14 | 0.23 | 4.39 | 31.41 | 4.5 |
| 20 | 242.4 | 0.56 | 1.00 | 0.15 | 0.28 | 4.37 | 31.48 | 4.2 |
| 41 | 232.4 | 0.49 | 0.90 | 0.14 | 0.28 | 4.29 | 31.70 | 4.0 |
| 54 | 161.7 | 0.67 | 0.79 | 0.15 | 0.22 | 4.43 | 31.99 | 2.8 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC034 59 40.6N 152 39.5W 13 MAY 1600 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 406.7 | * | * | 0.24 | 0.34 | 4.59 | 31.36 | 7.1 |
| 9 | 405.3 | 0.52 | 1.22 | 0.19 | 0.36 | 4.55 | 31.35 | 7.1 |
| 20 | 406.2 | 1.62 | 2.22 | 0.21 | 0.34 | 4.55 | 31.41 | 7.1 |
| 36 | 419.7 | 1.63 | 2.39 | 0.22 | 0.31 | 4.56 | 31.40 | 7.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
LC035 60 7.2N 152 2.2W 14 MAY 0100 + 9 62

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|--------|------|------|------|------|------|-------|------|
| 0 | 1217.9 | 0.37 | 0.70 | 0.11 | 0.22 | 4.22 | 30.34 | 21.1 |
| 20 | 1045.7 | 0.92 | 1.28 | 0.09 | 0.15 | 4.38 | 30.53 | 18.2 |
| 41 | 849.6 | 0.42 | 0.76 | 0.10 | 0.22 | 4.49 | 30.84 | 14.8 |
| 54 | 739.5 | 0.57 | 0.66 | 0.13 | 0.19 | 4.50 | 30.89 | 12.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC001 60 57.2N 151 8.5W 14 MAY 1530 + 9 42

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|---|--------|------|------|---|---|------|-------|------|
| 0 | 1583.6 | 0.23 | 0.52 | T | T | 3.86 | 23.68 | 25.9 |
|---|--------|------|------|---|---|------|-------|------|

CRUISE NUMBER
RP-4-D1-79A-11

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC002 60 56.8N 151 18.3W 14 MAY 1630 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 529.8 0.46 0.22 0.12 T 3.83 25.80 6.8
15 1509.0 1.16 0.55 0.50 0.12 3.72 25.08 24.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC003 60 56.7N 151 26.9W 14 MAY 1730 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

7 2637.0 10.79 0.25 4.76 0.07 * 25.99 *
20 2642.4 11.52 0.22 4.84 T 3.84 26.00 43.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC004 60 53.1N 151 35.5W 17 MAY 1525 + 9 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 4085.9 19.37 0.27 8.56 T 4.34 25.72 68.8
13 4051.6 21.34 0.27 9.94 T 4.29 25.76 68.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC005 60 53.8N 151 29.2W 17 MAY 1445 + 9 61

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 1996.2 2.32 * 0.74 T 4.18 26.01 33.5
38 2016.4 2.73 0.24 0.98 T 4.14 26.08 33.8

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC008 60 48.3N 151 32.1W 14 MAY 1330 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 2004.5 1.71 0.94 * T 3.70 26.59 33.3
20 1989.4 1.66 0.28 0.48 T 3.68 26.58 33.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC009 60 47.4N 151 35.4W 17 MAY 1330 + 9 78

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 2396.4 5.28 1.66 2.14 * 4.13 27.63 40.6
45 2560.4 4.87 * 2.05 T 4.07 27.76 43.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC010 60 50.3N 151 39.5W 17 MAY 1555 + 9 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

9 2328.7 4.02 * 1.05 T 4.27 26.24 39.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC10A 60 48.8N 151 43.3W 17 MAY 1620 + 9 7

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 2290.9 5.15 0.27 1.77 T 4.39 26.32 38.8

CRUISE NUMBER
RP-4-D1-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC011 | 60 48.0N | 151 42.7W | 17 MAY | 1725 | + 9 | 13 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 2481.0 | 19.00 | * | 11.18 | T | 4.18 | 26.55 | 41.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC11A | 60 47.3N | 151 43.0W | 17 MAY | 1755 | + 9 | 8 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 2378.5 | 15.34 | 0.64 | 8.58 | * | 4.23 | 26.64 | 40.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC012 | 60 49.8N | 151 40.3W | 14 MAY | 1900 | + 9 | 28 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 5 | 2555.8 | 5.00 | 0.24 | 1.66 | 0.05 | 4.06 | 27.35 | 43.2 |
| 20 | 2932.4 | 3.35 | 0.33 | 1.06 | 0.07 | 4.14 | 28.24 | 50.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC12A | 60 49.5N | 151 40.4W | 17 MAY | 1655 | + 9 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 2552.2 | 16.99 | * | 9.27 | T | 4.13 | 26.68 | 43.0 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC013 | 60 42.4N | 151 39.6W | 17 MAY | 1840 | + 9 | 17 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 7 | 2227.6 | 5.26 | 0.14 | 2.09 | T | 4.24 | 27.68 | 37.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC014 | 60 42.3N | 151 32.8W | 17 MAY | 1920 | + 9 | 28 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 1976.1 | 2.75 | 0.37 | 1.05 | T | 4.22 | 28.19 | 33.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC015 | 60 32.0N | 151 30.3W | 15 MAY | 1340 | + 9 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 15 | 689.3 | 0.31 | 0.43 | 0.07 | 0.17 | * | 29.31 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC016 | 60 32.6N | 151 40.8W | 15 MAY | 1435 | + 9 | 45 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 2809.6 | 4.16 | 0.37 | 1.95 | 0.10 | 4.00 | 28.01 | 47.0 |
| 44 | 2872.9 | 3.80 | 0.31 | 1.04 | 0.10 | * | 28.09 | * |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC017 | 60 36.3N | 151 45.5W | 15 MAY | 1530 | + 9 | 21 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 2845.2 | 3.65 | 0.39 | 1.57 | 0.16 | 4.09 | 28.06 | 48.3 |
| 10 | 3063.4 | 3.86 | 0.40 | 1.61 | 0.12 | 4.00 | 28.06 | 51.9 |

APPENDIX C

Kodiak Shelf

C.1

ACONA 245-77

28 Jun. - 16 Jul. 1977

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM01K 58 35.0N 152 0.0W 13 JUL 0100 + 9 157

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 0 | 100.5 | 0.58 | 3.15 | 0.48 | 1.07 | 11.49 | 31.56 | 2.1 |
| 21 | 169.9 | 0.51 | 1.76 | 0.37 | 0.40 | 8.40 | 31.68 | 3.3 |
| 41 | 205.0 | 0.45 | 1.21 | 0.26 | 0.24 | 6.93 | 32.03 | 3.8 |
| 101 | 164.4 | 0.32 | 0.98 | 0.20 | 0.20 | 6.08 | 32.56 | 3.0 |
| 141 | 175.0 | 0.26 | 0.72 | 0.18 | T | 5.76 | 32.75 | 3.2 |
| 151 | 170.4 | 0.24 | 0.68 | 0.16 | T | 5.75 | 32.76 | 3.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM02K 58 29.0N 151 25.0W 13 JUL 0330 + 9 158

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 0 | 79.7 | 0.41 | 3.38 | 0.36 | 1.05 | 13.03 | 31.67 | 1.7 |
| 20 | 147.8 | 0.74 | 2.60 | 0.51 | 0.55 | 9.74 | 31.80 | 2.9 |
| 41 | 155.2 | 0.44 | 2.06 | 0.35 | 0.50 | 8.10 | 32.03 | 3.0 |
| 101 | 187.1 | 0.32 | 0.75 | 0.21 | 0.21 | 5.86 | 32.66 | 3.4 |
| 141 | 190.7 | 0.27 | 0.72 | 0.18 | T | 5.71 | 32.76 | 3.4 |
| 152 | 192.1 | 0.27 | 0.50 | 0.18 | T | 5.71 | 32.77 | 3.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM03K 58 22.0N 150 50.0W 13 JUL 0720 + 9 65

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 81.6 | 0.45 | 3.58 | 0.41 | 1.14 | 12.66 | 31.68 | 1.7 |
| 11 | 116.1 | 0.46 | 2.55 | 0.39 | 0.64 | 9.10 | 31.87 | 2.3 |
| 21 | 147.4 | 0.46 | 2.08 | 0.36 | 0.49 | 8.06 | 32.02 | 2.8 |
| 41 | 195.8 | 0.41 | 1.56 | 0.30 | 0.37 | 7.22 | 32.24 | 3.7 |
| 61 | 206.7 | 0.42 | 1.59 | 0.33 | 0.40 | 7.21 | 32.25 | 3.9 |

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM04K | 58 15.0N | 150 15.0W | 13 JUL | 1115 | + 9 | 44 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 335.6 | 0.60 | 3.89 | 0.53 | 1.24 | 11.06 | 32.03 | 6.9 |
| 10 | 447.7 | 0.63 | 3.71 | 0.52 | 1.10 | 10.17 | 31.86 | 9.1 |
| 21 | 532.3 | 0.64 | 3.31 | 0.54 | 0.95 | 9.28 | 32.14 | 10.6 |
| 40 | 567.0 | 0.65 | 3.36 | 0.54 | 0.92 | 9.24 | 32.15 | 11.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM05K | 58 10.0N | 149 40.0W | 13 JUL | 1400 | + 9 | 113 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 80.7 | 0.48 | 3.97 | 0.46 | 1.35 | 13.62 | 31.82 | 1.7 |
| 20 | 130.8 | 0.42 | 2.24 | 0.35 | 0.37 | 8.66 | 31.99 | 2.5 |
| 41 | 173.5 | 0.52 | 1.02 | 0.28 | 0.19 | 6.55 | 32.32 | 3.2 |
| 61 | 158.9 | 0.29 | 0.92 | 0.21 | 0.20 | 6.11 | 32.56 | 2.9 |
| 101 | 267.1 | 0.32 | 0.79 | 0.17 | * | 5.40 | 32.96 | 4.8 |
| 109 | 402.1 | 0.39 | 1.00 | 0.21 | 0.23 | 5.45 | 33.02 | 7.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM06K | 58 3.0N | 149 3.0W | 13 JUL | 1740 | + 9 | 130 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 83.0 | 0.40 | 3.87 | 0.37 | 1.05 | 13.65 | 31.96 | 1.8 |
| 10 | 81.7 | 0.40 | 3.65 | 0.37 | 1.00 | 12.64 | 31.85 | 1.7 |
| 20 | 117.2 | 0.38 | 2.74 | 0.35 | 0.58 | 11.00 | 32.07 | 2.4 |
| 41 | 117.2 | 0.34 | 1.78 | 0.26 | 0.25 | 8.21 | 32.41 | 2.2 |
| 100 | 267.3 | 0.25 | 0.73 | 0.15 | T | 5.40 | 32.96 | 4.8 |
| 125 | 409.8 | 0.23 | 0.65 | 0.17 | T | 5.40 | 33.08 | 7.4 |

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM07K | 57 39.0N | 150 15.0W | 14 JUL | 0445 | + 9 | 137 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 129.6 | 0.71 | 4.33 | 0.60 | 1.37 | 11.38 | 32.11 | 2.7 |
| 11 | 124.0 | 0.64 | 4.02 | 0.54 | 1.25 | 11.35 | 32.12 | 2.5 |
| 21 | 146.9 | 0.67 | 3.44 | 0.56 | 1.05 | 11.23 | 32.10 | 3.0 |
| 41 | 232.5 | 0.62 | 2.22 | 0.47 | 0.61 | 8.12 | 32.19 | 4.5 |
| 101 | 360.3 | 0.40 | 1.01 | 0.27 | 0.24 | 5.85 | 32.68 | 6.6 |
| 132 | 324.2 | 0.34 | 0.76 | * | 0.13 | 5.44 | 33.06 | 5.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM08K | 57 47.0N | 150 50.0W | 14 JUL | 1000 | + 9 | 80 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 133.5 | 0.81 | 4.15 | 0.65 | 1.38 | 11.03 | 32.14 | 2.7 |
| 10 | 154.5 | 0.74 | * | 0.60 | 1.24 | 10.85 | 32.11 | 3.1 |
| 20 | 214.5 | 0.63 | 1.67 | 0.69 | 0.71 | 8.10 | 32.16 | 4.1 |
| 40 | 279.7 | 0.50 | 1.97 | 0.37 | 0.49 | 6.80 | 32.26 | 5.2 |
| 75 | 289.8 | 0.54 | 2.01 | 0.41 | 0.52 | 6.76 | 32.26 | 5.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM8KA | 57 57.1N | 150 29.9W | 15 JUL | 2050 | + 9 | 146 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 123.8 | 0.44 | 3.32 | 0.45 | 0.93 | 11.76 | 32.02 | 2.6 |
| 20 | 169.4 | 0.43 | 2.40 | 0.38 | 0.53 | 9.47 | 32.08 | 3.3 |
| 41 | 429.2 | 0.40 | 1.33 | 0.28 | 0.25 | 6.70 | 32.36 | 8.0 |
| 101 | 347.7 | 0.31 | 0.83 | 0.21 | T | 5.68 | 32.84 | 6.3 |
| 131 | 314.1 | 0.32 | 0.77 | 0.22 | T | 5.50 | 32.98 | 5.7 |
| 140 | 295.9 | 1.19 | 1.09 | 0.28 | T | 5.43 | 33.04 | 5.3 |

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM09K 57 57.0N 151 25.0W 14 JUL 1230 + 9 70

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 205.6 | 0.73 | 5.03 | 0.62 | 1.94 | 12.06 | 31.95 | 4.3 |
| 11 | 213.8 | 0.70 | 4.38 | 0.59 | 1.41 | 11.23 | 32.05 | 4.4 |
| 21 | 286.7 | 0.76 | 4.27 | 0.65 | 1.30 | 10.98 | 31.98 | 5.9 |
| 41 | 274.1 | 0.59 | 2.13 | 0.47 | 0.55 | 7.38 | 32.23 | 5.2 |
| 64 | 280.4 | * | * | * | * | 7.06 | 32.26 | 5.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM10K 58 6.0N 152 0.0W 12 JUL 2100 + 9 62

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 103.7 | 0.61 | 4.35 | 0.50 | 1.31 | 11.52 | 31.79 | 2.1 |
| 11 | 143.2 | 0.60 | 2.82 | 0.46 | 0.77 | 8.83 | 31.95 | 2.8 |
| 20 | 147.9 | 0.56 | 2.52 | 0.46 | 0.69 | 8.38 | 31.99 | 2.8 |
| 41 | 157.4 | 0.53 | 2.19 | 0.38 | 0.59 | 7.90 | 32.08 | 3.0 |
| 56 | 164.4 | 0.55 | 2.03 | 0.39 | 0.53 | 7.68 | 32.13 | 3.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM11K 57 33.0N 152 0.0W 14 JUL 1730 + 9 69

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 2 | 170.6 | 0.80 | 4.48 | 0.67 | 1.36 | 10.85 | 31.87 | 3.5 |
| 12 | 173.5 | 0.81 | 4.39 | 0.68 | 1.32 | 10.73 | 31.84 | 3.5 |
| 22 | 235.0 | 0.75 | 3.86 | 0.59 | 1.10 | 10.28 | 31.96 | 4.7 |
| 41 | 685.2 | 0.80 | 2.62 | 0.53 | 0.63 | 8.23 | 32.02 | 13.3 |
| 65 | 894.3 | 0.76 | 2.37 | 0.46 | 0.56 | 7.40 | 32.19 | 17.0 |

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM12K | 57 22.0N | 151 30.0W | 15 JUL | 1350 | + 9 | 80 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 209.9 | 0.57 | 4.11 | 0.49 | 1.38 | 11.67 | 32.09 | 4.4 |
| 11 | 322.1 | 0.80 | 3.86 | 0.63 | 1.23 | 11.58 | 32.06 | 6.7 |
| 21 | 392.1 | 0.80 | 2.91 | 0.54 | 0.79 | 8.53 | 32.15 | 7.6 |
| 41 | 1018.0 | 0.84 | 2.29 | 0.51 | 0.54 | 7.25 | 32.18 | 19.3 |
| 62 | 864.1 | 0.66 | 1.93 | 0.43 | 0.42 | 6.62 | 32.28 | 16.1 |
| 76 | 1882.2 | 0.68 | 1.67 | 0.45 | 0.40 | 6.19 | 32.43 | 34.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM15K | 57 0.0N | 152 10.0W | 15 JUL | 0915 | + 9 | 71 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 125.1 | 0.33 | 2.83 | 0.32 | 0.80 | 12.22 | 31.98 | 2.6 |
| 11 | 133.8 | 0.33 | 2.71 | 0.31 | 0.75 | 12.22 | 31.99 | 2.8 |
| 20 | 233.4 | 0.62 | 3.09 | 0.49 | 0.78 | 9.67 | 31.92 | 4.6 |
| 67 | 679.2 | 0.50 | 1.53 | 0.32 | 0.27 | 6.35 | 32.42 | 12.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| PM16K | 57 12.0N | 152 39.0W | 14 JUL | 2200 | + 9 | 65 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 369.2 | 0.88 | 4.65 | 0.77 | 1.60 | 10.74 | 31.62 | 7.5 |
| 11 | 432.9 | 0.81 | 4.09 | 0.67 | 1.26 | 9.64 | 31.89 | 8.6 |
| 21 | 644.6 | 0.76 | 3.01 | 0.64 | 0.87 | 7.75 | 32.10 | 12.3 |
| 41 | 1054.9 | 0.68 | 2.22 | 0.48 | 0.53 | 7.05 | 32.20 | 19.9 |
| 62 | 1178.3 | 0.72 | 2.09 | 0.51 | 0.48 | 6.81 | 32.23 | 22.1 |

CRUISE NUMBER
ACONA 245-77

LOCATION
KODIAK SHELF

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM17K | 56 53.0N | 153 20.0W | 15 JUL | 0215 | + 9 | 170 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 333.7 | 0.72 | 4.34 | 0.74 | 1.64 | 11.32 | 31.59 | 6.9 |
| 21 | 190.7 | 0.44 | 1.81 | 0.35 | 0.30 | 8.03 | 32.00 | 3.6 |
| 41 | 302.8 | 0.40 | 1.41 | 0.28 | 0.30 | 7.00 | 32.15 | 5.7 |
| 165 | 1235.2 | 0.45 | 0.72 | 0.36 | 0.20 | 5.77 | 32.67 | 22.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM18K | 56 40.0N | 152 58.0W | 15 JUL | 0500 | + 9 | 77 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 132.4 | 0.33 | 2.77 | 0.30 | 0.95 | 12.26 | 31.98 | 2.8 |
| 12 | 276.9 | 0.57 | 2.36 | 0.48 | 0.51 | 9.12 | 31.86 | 5.4 |
| 21 | 732.7 | 0.46 | 1.63 | 0.39 | 0.30 | 7.56 | 32.13 | 14.0 |
| 41 | 1095.1 | 0.48 | 1.29 | 0.31 | 0.25 | 6.36 | 32.32 | 20.3 |
| 72 | 1002.1 | 0.62 | 1.24 | 0.45 | 0.36 | 5.98 | 32.45 | 18.4 |

APPENDIX D

Shelikof Strait

| | | |
|-----|----------------|------------------------|
| D.1 | RP-4-77A-IV | 05 Apr. - 22 Apr. 1977 |
| D.2 | ACONA 245-77 | 28 Jun. - 16 Jul. 1977 |
| D.3 | RP-4-DI-79A-II | 07 May - 20 May 1979 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM041 | 58 50.7N | 153 9.2W | 13 APR | 0210 | +10 | 182 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 111.3 | 0.27 | 0.48 | 0.19 | 0.32 | 4.85 | 31.58 | 1.9 |
| 22 | 123.1 | 0.24 | 0.44 | 0.16 | 0.24 | 4.86 | 31.58 | 2.1 |
| 101 | * | 0.29 | 0.47 | 0.16 | 0.26 | 4.93 | 31.62 | * |
| 174 | 209.4 | 0.37 | 0.37 | 0.15 | 0.20 | 5.14 | 31.92 | 3.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM042 | 58 35.7N | 153 25.5W | 14 APR | 1600 | +10 | 110 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 4 | 193.2 | 0.46 | 0.53 | 0.18 | 0.27 | 4.67 | 31.60 | 3.4 |
| 21 | 147.6 | 0.47 | 0.48 | 0.17 | 0.22 | 4.67 | 31.62 | 2.6 |
| 110 | 101.2 | 0.27 | 0.61 | 0.11 | 0.27 | 4.67 | 31.77 | 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM043 | 58 29.0N | 153 10.8W | 14 APR | 1900 | +10 | 169 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 5 | 106.5 | 0.32 | 0.51 | 0.16 | 0.28 | 4.78 | 31.79 | 1.8 |
| 168 | 136.0 | 0.45 | 0.65 | 0.15 | 0.42 | 5.43 | 32.17 | 2.5 |

CRUISE NUMBER
RP-4-DI-77A-IV

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
05 APR-22 APR 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM044 | 58 24.9N | 153 0.0W | 14 APR | 2010 | +10 | 202 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 20 | 110.2 | 0.57 | 0.94 | 0.09 | 0.16 | 4.15 | 31.89 | 1.9 |
| 151 | 93.5 | 0.22 | 0.48 | 0.11 | 0.20 | 4.34 | 31.43 | 1.6 |
| 199 | 214.1 | 0.20 | 0.37 | 0.12 | 0.22 | 5.63 | 32.46 | 3.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM045 | 58 2.0N | 153 29.5W | 15 APR | 0120 | +10 | 96 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 21 | 110.0 | 0.27 | 0.87 | 0.17 | 0.48 | 4.22 | 31.70 | 1.9 |
| 60 | 123.0 | 0.21 | 0.46 | 0.10 | 0.72 | 4.26 | 31.75 | 2.1 |
| 89 | 110.3 | 0.36 | 0.81 | * | * | 4.98 | 31.89 | 1.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM046 | 58 10.0N | 153 44.2W | 15 APR | 0500 | +10 | 192 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 108.3 | 0.34 | 0.57 | 0.16 | 0.80 | 4.54 | 31.69 | 1.9 |

CRUISE NUMBER
ACDNA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM041 58 50.7N 153 9.2W 08 JUL 1035 + 9 182

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 0 | 253.7 | 0.43 | 2.16 | 0.35 | 0.74 | 9.38 | 30.71 | 5.0 |
| 20 | 265.5 | 1.52 | 2.08 | 0.59 | 0.50 | 8.70 | 31.06 | 5.5 |
| 41 | 140.4 | 0.43 | 1.71 | 0.34 | 0.36 | 7.68 | 31.79 | 2.8 |
| 101 | 158.8 | 0.41 | 1.37 | 0.25 | 0.35 | 7.04 | 32.09 | 2.9 |
| 179 | 273.4 | 0.49 | 0.98 | 0.34 | 0.26 | 6.06 | 32.40 | 5.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 58 35.7N 153 25.5W 09 JUL 0720 + 9 119

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 440.5 | 0.86 | 2.31 | 0.39 | 0.89 | 10.32 | 29.87 | 8.8 |
| 10 | 500.7 | 1.05 | 2.07 | 0.44 | 0.75 | 9.50 | 30.22 | 9.9 |
| 20 | 475.6 | 1.21 | 1.98 | 0.47 | 0.65 | 9.03 | 30.56 | 9.3 |
| 61 | 170.6 | 0.61 | 1.76 | 0.37 | 0.39 | 8.08 | 31.40 | 3.2 |
| 114 | 156.0 | 0.54 | 1.52 | 0.41 | 0.41 | 7.23 | 32.05 | 2.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM043 58 29.0N 153 10.8W 09 JUL 1025 + 9 173

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 375.3 | 0.85 | 2.85 | 0.48 | 0.98 | 10.26 | 30.26 | 7.5 |
| 10 | 187.6 | 0.48 | 2.51 | 0.45 | 0.61 | 9.08 | 31.01 | 3.6 |
| 20 | 150.0 | 0.46 | 2.18 | 0.32 | 0.58 | 8.63 | 31.34 | 2.9 |
| 61 | 146.1 | 0.50 | 1.65 | 0.31 | 0.40 | 7.35 | 32.02 | 2.7 |
| 101 | 147.7 | 0.41 | 1.21 | 0.23 | 0.30 | 6.33 | 32.14 | 2.7 |
| 169 | 390.9 | 0.32 | 1.00 | 0.25 | 0.31 | 5.53 | 32.63 | 7.1 |

CRUISE NUMBER
ACONA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM044 58 24.9N 153 0.0W 09 JUL 1200 + 9 200

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 131.9 0.63 3.95 0.46 1.61 11.94 30.07 2.7
11 151.0 0.65 2.83 0.58 0.99 10.26 31.09 3.0
21 226.6 0.68 2.18 0.48 0.59 8.51 31.58 4.4
61 140.0 0.45 1.43 0.30 0.37 7.05 32.05 2.6
101 183.9 0.35 1.13 0.23 0.29 6.31 32.19 3.4
196 552.7 0.36 1.00 0.38 1.14 5.35 33.03 10.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM045 58 2.0N 153 29.5W 09 JUL 2220 + 9 102

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 199.9 0.61 3.15 0.42 1.15 10.12 31.19 4.0
10 146.1 0.53 2.27 0.48 0.66 8.82 31.48 2.8
20 107.8 0.55 2.75 0.46 0.73 9.54 31.74 2.1
61 137.1 0.37 1.26 0.24 0.24 6.62 32.05 2.5
98 167.9 0.40 1.07 0.23 0.24 6.32 32.17 3.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM046 58 10.0N 153 44.2W 09 JUL 1910 + 9 196

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 321.9 0.68 2.57 0.45 0.53 10.90 29.98 6.5
10 212.6 0.56 2.06 0.52 0.61 9.78 30.90 4.2
20 188.9 0.66 1.78 0.37 0.37 8.38 31.31 3.6
61 148.3 0.51 1.32 0.33 0.24 7.20 31.90 2.8
101 153.2 0.40 1.30 0.24 0.24 6.72 32.11 2.9
192 773.6 0.38 0.72 0.27 0.16 5.22 33.28 14.0

CRUISE NUMBER
ACDNA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM047 | 58 17.5N | 153 57.4W | 09 JUL | 1645 | + 9 | 250 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 488.7 | 0.82 | 3.06 | 0.49 | 1.28 | 11.59 | 28.72 | 10.0 |
| 11 | 463.5 | 0.97 | 2.44 | 0.61 | 0.89 | 10.43 | 29.81 | 9.3 |
| 20 | 533.5 | 1.05 | 2.29 | 0.55 | 0.76 | 9.66 | 30.19 | 10.6 |
| 61 | 119.2 | 0.52 | 2.48 | 0.41 | 0.67 | 8.09 | 31.74 | 2.3 |
| 101 | 156.4 | 0.39 | 1.20 | 0.24 | 0.27 | 6.43 | 32.05 | 2.9 |
| 248 | 599.8 | 0.35 | 0.72 | 0.23 | 0.16 | 5.05 | 33.41 | 10.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM048 | 57 58.2N | 154 36.8W | 10 JUL | 0300 | + 9 | 208 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 207.7 | 0.69 | 3.57 | 0.46 | 1.37 | 12.16 | 29.68 | 4.3 |
| 11 | 223.0 | 0.66 | 2.35 | 0.44 | 0.92 | 11.29 | 29.74 | 4.5 |
| 21 | 254.3 | 0.83 | 2.74 | 0.57 | 0.94 | 10.31 | 30.33 | 5.1 |
| 41 | 353.5 | 1.00 | 1.65 | 0.41 | 0.40 | 7.77 | 30.80 | 6.7 |
| 61 | 354.1 | 0.40 | 1.89 | 0.35 | 0.32 | 7.95 | 31.54 | 6.8 |
| 101 | 158.3 | 0.39 | 1.21 | 0.25 | 0.16 | 6.42 | 31.95 | 2.9 |
| 205 | 642.4 | 0.35 | 0.77 | 0.24 | T | 5.10 | 33.36 | 11.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM049 | 57 50.4N | 154 25.7W | 10 JUL | 0600 | + 9 | 216 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 118.6 | 0.56 | 3.43 | 0.48 | 1.17 | 11.21 | 29.82 | 2.4 |
| 11 | 119.2 | 0.63 | 2.72 | 0.49 | 0.84 | 9.96 | 30.97 | 2.3 |
| 20 | 142.9 | 0.57 | 1.82 | 0.40 | 0.32 | 8.22 | 31.60 | 2.7 |
| 61 | 150.0 | 0.40 | 1.07 | 0.25 | * | 6.40 | 32.01 | 2.7 |
| 101 | 190.4 | 0.34 | 0.94 | 0.21 | T | 5.94 | 32.16 | 3.4 |
| 212 | 572.5 | 0.41 | 0.72 | 0.24 | T | 5.17 | 33.26 | 10.3 |

CRUISE NUMBER
ACONA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM050 57 42.2N 154 18.4W 10 JUL 0915 + 9 177

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 0 | 108.9 | 0.54 | 3.24 | 0.40 | 1.09 | 11.03 | 30.75 | 2.2 |
| 10 | 134.8 | 0.66 | 2.60 | 0.47 | 0.79 | 9.61 | 31.07 | 2.6 |
| 20 | 327.7 | 0.72 | 2.72 | 0.55 | 0.72 | 8.87 | 31.67 | 6.4 |
| 61 | 161.5 | 0.39 | 1.22 | 0.24 | 0.22 | 6.25 | 32.01 | 2.9 |
| 101 | 234.2 | 0.33 | 0.90 | 0.19 | 0.16 | 5.81 | 32.22 | 4.2 |
| 173 | 335.5 | 0.29 | 0.87 | 0.20 | T | 5.25 | 33.11 | 6.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM051 56 56.0N 154 44.5W 11 JUL 0015 + 9 48

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|------|
| 2 | 113.6 | 0.43 | 3.53 | 0.47 | 1.25 | 11.79 | 31.59 | 2.3 |
| 12 | 468.7 | 0.66 | 3.35 | 0.59 | 1.03 | 10.13 | 31.82 | 9.5 |
| 21 | 479.5 | 0.65 | 3.17 | 0.56 | 0.98 | 9.66 | 31.86 | 9.6 |
| 44 | 594.0 | 0.91 | 3.02 | 0.66 | 0.90 | 8.93 | 31.95 | 11.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM052 57 5.3N 154 59.1W 10 JUL 2225 + 9 170

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 91.7 | 0.56 | 3.78 | 0.47 | 1.37 | 11.24 | 31.41 | 1.9 |
| 10 | 94.6 | 0.51 | 2.34 | 0.47 | 0.96 | 10.01 | 31.49 | 1.9 |
| 20 | 156.6 | 0.59 | 2.05 | 0.54 | 0.87 | 9.09 | 31.61 | 3.0 |
| 61 | 157.7 | 0.43 | 0.76 | 0.27 | T | 5.44 | 32.04 | 2.8 |
| 101 | 271.7 | 0.33 | 0.71 | 0.23 | T | 5.39 | 32.51 | 4.9 |
| 165 | 547.9 | 0.40 | 0.57 | 0.27 | T | 5.16 | 33.02 | 5.9 |

CRUISE NUMBER
ACONA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM053 57 13.5N 155 13.0W 10 JUL 2000 + 9 234

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 102.6 | 0.66 | 3.96 | 0.49 | 1.37 | 11.57 | 31.09 | 2.1 |
| 10 | 134.1 | 0.57 | 2.41 | 0.48 | 0.77 | 8.70 | 31.28 | 2.6 |
| 20 | 297.0 | 0.71 | 2.06 | 0.52 | 0.56 | 8.09 | 31.78 | 5.7 |
| 61 | 155.6 | 0.49 | 0.96 | 0.28 | T | 6.15 | 31.99 | 2.8 |
| 101 | 191.5 | 0.32 | 0.58 | 0.20 | T | 5.65 | 32.21 | 3.4 |
| 230 | 512.9 | 0.40 | 0.62 | 0.20 | T | 4.88 | 33.47 | 9.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM054 57 22.2N 155 26.6W 10 JUL 1700 + 9 267

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 1 | 100.3 | 0.52 | 4.10 | 0.35 | 1.40 | 11.33 | 30.79 | 2.0 |
| 11 | 127.2 | 0.69 | 2.96 | 0.62 | 0.87 | 9.69 | 31.29 | 2.5 |
| 20 | 153.8 | 0.61 | 1.86 | 0.55 | 0.41 | 7.39 | 31.81 | 2.9 |
| 61 | 144.3 | 0.42 | 1.26 | 0.29 | 0.23 | 6.13 | 31.99 | 2.6 |
| 101 | 161.4 | 0.36 | 0.86 | 0.32 | 0.17 | 6.07 | 32.14 | 2.9 |
| 263 | 454.4 | 0.34 | 0.52 | 0.28 | T | 4.90 | 33.50 | 8.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM055 57 30.2N 155 36.6W 10 JUL 1345 + 9 296

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|-------|-------|-----|
| 0 | 252.0 | 0.70 | 3.04 | 0.43 | 1.12 | 10.87 | 30.08 | 5.1 |
| 11 | 297.9 | 0.90 | 2.51 | 0.48 | 0.71 | 10.26 | 30.11 | 6.0 |
| 21 | 181.7 | 0.67 | 2.40 | 0.41 | 0.63 | 8.84 | 31.31 | 3.5 |
| 62 | 162.7 | 0.50 | 1.42 | 0.33 | 0.27 | 7.09 | 31.86 | 3.0 |
| 101 | 141.3 | 0.37 | 1.14 | 0.23 | 0.23 | 6.20 | 32.05 | 2.6 |
| 292 | 447.9 | 0.44 | 0.71 | 0.22 | T | 4.89 | 33.51 | 8.0 |

CRUISE NUMBER
ACONA 245-77

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM057 56 45.0N 155 54.0W 11 JUL 0530 + 9 292

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 90.8 | 0.49 | 3.95 | 0.36 | 1.35 | 11.54 | 31.04 | 1.8 |
| 10 | 112.8 | 0.58 | 2.95 | 0.44 | 1.07 | 10.26 | 31.12 | 2.2 |
| 20 | 122.2 | 0.49 | 2.11 | 0.43 | 0.72 | 9.64 | 31.36 | 2.4 |
| 61 | 219.4 | 0.55 | 1.39 | 0.38 | 0.32 | 6.55 | 31.77 | 4.0 |
| 101 | 160.4 | 0.41 | 0.81 | 0.25 | T | 5.53 | 32.03 | 2.9 |
| 290 | 514.0 | 0.33 | 0.59 | 0.22 | T | 4.79 | 33.59 | 9.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM058 56 27.0N 155 27.0W 11 JUL 0900 + 9 55

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 635.2 | 0.80 | 4.26 | 0.55 | 1.27 | 10.30 | 32.00 | 12.9 |
| 10 | 823.7 | 0.86 | 3.25 | 0.57 | 1.02 | 9.06 | 32.01 | 16.3 |
| 20 | 856.2 | 0.79 | 2.72 | 0.56 | 0.84 | 8.72 | 32.03 | 16.8 |
| 41 | 279.3 | 0.74 | 2.19 | 0.41 | 0.52 | 7.11 | 32.01 | 5.2 |
| 50 | 282.5 | 0.69 | 1.72 | 0.40 | 0.44 | 6.62 | 32.07 | 5.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM059 56 13.0N 155 5.0W 11 JUL 1130 + 9 29

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 681.9 | 0.78 | 2.78 | 0.56 | 0.93 | 9.39 | 31.99 | 13.6 |
| 10 | 609.0 | 0.70 | 2.72 | 0.59 | 0.90 | 9.32 | 31.99 | 13.7 |
| 20 | 712.1 | 0.79 | 2.79 | 0.54 | 0.89 | 9.28 | 31.99 | 14.1 |
| 24 | 651.0 | 0.76 | 2.61 | 0.46 | * | 9.27 | 32.00 | 12.9 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS002 | 56 44.2N | 155 56.0W | 08 MAY | 2230 | + 9 | 302 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 127.0 | 0.71 | 1.68 | 0.28 | 0.50 | 5.29 | 31.99 | 2.2 |
| 248 | 440.1 | 0.50 | 0.66 | 0.16 | 0.16 | 4.66 | 33.07 | 7.6 |
| 274 | 322.1 | 0.48 | 0.65 | 0.21 | 0.16 | 4.78 | 33.17 | 5.7 |
| 289 | 267.6 | 0.33 | 0.68 | 0.20 | 0.17 | 4.78 | 33.17 | 4.8 |
| 300 | 251.6 | 0.33 | 0.68 | 0.19 | 0.17 | 4.79 | 33.18 | 4.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS003 | 57 42.2N | 154 28.6W | 10 MAY | 0400 | + 9 | 206 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 2 | 186.2 | 0.98 | 1.26 | 0.34 | 0.44 | * | * | * |
| 183 | 399.9 | 0.63 | 0.55 | 0.18 | 0.15 | * | * | * |
| 193 | 415.4 | 0.29 | 0.35 | 0.13 | 0.11 | * | * | * |
| 201 | 304.6 | 0.36 | 0.44 | 0.17 | 0.15 | * | * | * |
| 203 | 277.3 | T | 0.32 | 0.13 | 0.09 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS009 | 58 25.5N | 153 12.4W | 11 MAY | 0745 | + 9 | 168 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 133.0 | 0.81 | 1.73 | 0.27 | 0.56 | 5.57 | 31.89 | 2.4 |
| 146 | 366.0 | 0.26 | 0.26 | 0.16 | 0.10 | 4.36 | 32.54 | 6.4 |
| 157 | 448.5 | 0.37 | 0.40 | 0.16 | 0.12 | 4.37 | 32.56 | 7.9 |
| 164 | 554.9 | 0.47 | 0.48 | 0.17 | 0.15 | 4.39 | 32.64 | 9.8 |
| 167 | 323.8 | T | T | T | T | 4.41 | 32.63 | 5.7 |

CRUISE NUMBER
RP-4-01-79A-II

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS014 | 58 50.6N | 152 53.5W | 19 MAY | 2000 | + 9 | 160 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 124.3 | 0.59 | 1.12 | 0.24 | 0.31 | 5.97 | 32.17 | 2.2 |
| 20 | 128.4 | 0.49 | 0.96 | 0.22 | 0.30 | 5.87 | 32.23 | 2.3 |
| 50 | 126.6 | 0.64 | * | 0.24 | 0.26 | 5.26 | 32.27 | 2.2 |
| 101 | 127.6 | 0.38 | 0.84 | 0.20 | 0.22 | 5.04 | 32.36 | 2.2 |
| 160 | 169.1 | 0.30 | 0.57 | 0.17 | 0.14 | 4.45 | 32.44 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS015 | 58 50.0N | 152 52.5W | 19 MAY | 1900 | + 9 | 164 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 111.6 | 1.13 | 2.80 | 0.53 | 0.39 | 5.96 | 32.19 | 2.0 |
| 20 | 116.7 | 0.47 | 1.00 | 0.20 | 0.27 | 5.52 | 32.24 | 2.1 |
| 50 | 113.0 | 0.67 | 1.45 | 0.15 | 0.31 | 5.19 | 32.30 | 2.0 |
| 101 | 86.4 | 0.60 | 0.65 | 0.13 | 0.17 | 4.99 | 32.38 | 1.6 |
| 150 | 192.9 | 0.41 | 0.65 | 0.19 | 0.25 | 4.48 | 32.44 | 3.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS016 | 58 51.2N | 153 8.5W | 19 MAY | 1730 | + 9 | 162 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 463.2 | 0.58 | 1.36 | 0.29 | * | 5.48 | 31.08 | 5.3 |
| 21 | 129.6 | 0.68 | 0.85 | 0.24 | 0.21 | 5.02 | 32.06 | 2.3 |
| 50 | 129.9 | 0.54 | 0.85 | 0.20 | 0.24 | 5.01 | 32.10 | 2.3 |
| 103 | 133.8 | 0.55 | 0.93 | 0.21 | 0.25 | 5.04 | 32.14 | 2.4 |
| 152 | 132.6 | 0.52 | 1.01 | 0.24 | 0.21 | 5.00 | 32.18 | 2.3 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
SHELIKOF STRAIT

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| SS017 | 59 4.3N | 151 52.8W | 20 MAY | 0100 | + 9 | 124 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 141.3 | 0.42 | 0.90 | 0.22 | 0.24 | 5.18 | 31.88 | 2.5 |
| 20 | 151.2 | 0.45 | 0.83 | 0.22 | 0.28 | 5.18 | 31.92 | 2.7 |
| 50 | 144.5 | 0.67 | * | 0.19 | 0.29 | 5.12 | 31.94 | 2.5 |
| 81 | 145.7 | 0.50 | 0.80 | 0.20 | 0.32 | 5.08 | 31.97 | 2.6 |
| 114 | 146.0 | 0.46 | 1.00 | 0.21 | 0.28 | 5.04 | 31.98 | 2.6 |

APPENDIX E
Southeast Bering Sea

| | | |
|-----|------------------|------------------------|
| E.1 | RP-4-DI-75B-III | 12 Sep. - 03 Oct. 1975 |
| E.2 | RP-4-MW-76B-VIII | 25 Jun. - 08 Jul. 1976 |

CRUISE NUMBER
RP-4-D1-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM001 | 58 43.4N | 167 21.2W | 16 SEP | 0335 | +10 | 44 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 58.1 | 0.66 | * | 0.41 | * | 6.32 31.44 1.0 |
| 39 | 56.1 | 1.31 | * | 0.35 | * | 6.31 31.45 1.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM002 | 59 3.0N | 166 49.3W | 16 SEP | 0900 | +10 | 35 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 54.2 | 1.06 | * | 0.33 | * | 7.09 31.24 1.0 |
| 10 | 50.4 | 1.09 | * | 0.47 | * | 7.08 31.24 0.9 |
| 26 | 49.8 | 1.03 | * | 0.34 | * | 7.05 31.25 0.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM003 | 59 25.5N | 166 10.7W | 16 SEP | 1253 | +10 | 47 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 54.1 | 0.66 | * | 0.35 | * | 6.81 31.07 1.0 |
| 10 | 46.5 | 0.76 | * | 0.36 | * | 6.79 31.07 0.9 |
| 21 | 44.9 | 0.73 | * | * | * | 6.78 31.08 0.8 |

CRUISE NUMBER
RP-4-DI-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 59 38.5N | 165 51.5W | 16 SEP | 1450 | +10 | 25 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 44.6 | 0.66 | * | 0.37 | * | 9.27 30.66 0.8 |
| 10 | 45.3 | 0.63 | * | 0.32 | * | 9.27 30.66 0.8 |
| 20 | 45.3 | 0.67 | * | 0.30 | * | 9.26 30.65 0.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM005 | 59 30.1N | 164 23.9W | 16 SEP | 1905 | +10 | 18 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|-----------------|
| 1 | 47.9 | 0.69 | * | 0.17 | * | 10.34 28.34 0.9 |
| 10 | 48.7 | 0.74 | * | 0.37 | * | 10.34 28.33 0.9 |
| 15 | 46.6 | 0.75 | * | 0.21 | * | 10.34 28.33 0.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM006 | 59 8.1N | 164 55.2W | 16 SEP | 2130 | +10 | 25 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 49.5 | 0.70 | * | 0.53 | * | 9.50 30.84 0.9 |
| 9 | 47.8 | 0.75 | * | 0.43 | * | 9.50 30.85 0.9 |
| 18 | 48.3 | 0.77 | * | 0.43 | * | 9.49 30.87 0.9 |

CRUISE NUMBER
RP-4-01-758-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM007 | 58 47.4N | 165 27.1W | 16 SEP | 2345 | +10 | 30 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 50.2 | 0.79 | * | 0.41 | * | 8.68 31.39 0.9 |
| 10 | 47.8 | 0.72 | * | * | * | 8.68 31.39 0.9 |
| 22 | 45.9 | 0.77 | * | 0.46 | * | 8.67 31.39 0.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM008 | 58 24.0N | 166 50.5W | 17 SEP | 0436 | +10 | 44 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 57.8 | 1.16 | * | 0.34 | * | 7.08 31.52 1.0 |
| 6 | 54.2 | 1.17 | * | 0.59 | * | 7.08 31.51 1.0 |
| 36 | 53.9 | 1.20 | * | 0.09 | * | 7.08 31.52 1.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM009 | 57 52.3N | 164 53.2W | 24 SEP | 0803 | +10 | 50 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 66.3 | 1.30 | * | 0.39 | * | 5.79 31.42 1.2 |
| 11 | 59.1 | 1.48 | * | 0.38 | * | 5.73 31.44 1.0 |
| 47 | 70.4 | 2.10 | * | 0.50 | * | 5.40 31.51 1.2 |

CRUISE NUMBER
RP-4-DI-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM010 58 13.6N 164 21.9W 24 SEP 1050 +10 42

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

2 58.9 1.40 * 0.88 * 7.19 31.24 1.1
10 56.1 1.28 * 0.92 * 7.18 31.24 1.0
36 60.5 1.33 * 0.51 * 7.16 31.28 1.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM011 58 35.7N 163 49.8W 24 SEP 1327 +10 36

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 60.1 0.27 * 0.29 * 8.20 30.85 1.1
10 57.3 0.88 * 0.29 * 8.21 30.85 1.1
25 60.4 0.94 * 0.27 * 8.22 30.85 1.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM012 58 54.8N 163 21.9W 18 SEP 0050 +10 27

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

2 58.5 0.71 * 1.26 * 9.40 30.22 1.1
10 58.2 0.28 * * * 9.40 30.22 1.1
20 54.4 0.94 * * * 9.40 30.22 1.0

CRUISE NUMBER
RP-4-DI-758-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM013 58 31.9N 162 9.7W 18 SEP 1710 +10 40

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

2 69.5 0.78 * 0.40 * 8.96 29.37 1.3
10 66.7 0.77 * 0.41 * 8.38 29.72 1.2
36 90.0 1.53 * * * 8.33 30.67 1.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM014 58 9.8N 162 40.3W 18 SEP 2000 +10 38

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 74.3 1.40 * 0.54 * 8.57 30.73 1.3
10 74.0 1.48 * 0.35 * 8.57 30.72 1.3
30 69.4 1.21 * 0.37 * 8.53 30.72 1.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM015 57 48.0N 163 14.2W 18 SEP 2240 +10 36

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 71.0 1.65 * 0.48 * 4.95 31.47 1.2
10 80.0 1.56 * 0.41 * 4.96 31.47 1.1
33 64.3 1.57 * * * 4.97 31.47 1.1

CRUISE NUMBER
RP-4-01-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 57 20.3N 163 48.7W 19 SEP 0113 +10 57

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 51.0 0.93 * 0.38 * 6.26 31.62 0.9
10 47.9 0.89 * 0.35 * 6.27 31.63 0.8
30 64.2 1.00 * 0.28 * 2.75 31.81 1.0
48 64.7 1.67 * 0.35 * 2.75 31.80 1.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM017 57 6.0N 161 57.8W 19 SEP 0655 +10 53

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 68.9 1.08 * 0.36 * * * *
10 67.9 1.30 * 0.42 * 2.75 31.60 1.2
46 75.4 1.55 * 0.46 * 4.39 31.70 1.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 57 34.2N 161 40.1W 19 SEP 1011 +10 48

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 83.2 1.36 * 0.40 * 4.61 31.31 1.4
5 80.9 1.34 * 0.43 * 4.01 31.32 1.4
40 83.0 1.43 * 0.43 * 4.60 31.32 1.4

CRUISE NUMBER
RP-4-01-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM019 | 58 2.1N | 161 29.5W | 19 SEP | 1245 | +10 | 46 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 74.3 | 0.90 | * | * | * | * |
| 10 | 67.9 | 1.38 | * | 0.42 | * | * |
| 42 | 69.0 | 1.41 | * | 0.55 | * | 6.03 31.03 1.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM020 | 58 28.2N | 161 23.5W | 19 SEP | 1550 | +10 | 24 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 81.8 | 0.97 | * | 0.45 | * | 8.53 29.46 1.5 |
| 10 | 80.0 | 0.95 | * | 0.43 | * | 6.54 29.47 1.5 |
| 18 | 89.8 | 1.27 | * | 0.59 | * | 7.99 29.90 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM021 | 58 27.2N | 159 46.1W | 19 SEP | 2130 | +10 | 31 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 2 | 93.7 | 0.25 | * | * | * | 9.74 28.91 1.6 |
| 11 | 95.1 | 0.34 | * | 0.49 | * | 9.74 28.91 1.6 |
| 26 | 74.6 | 1.01 | * | 0.60 | * | 9.26 29.37 1.4 |

CRUISE NUMBER
RP-4-01-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM022 | 58 0.3N | 159 46.0W | 20 SEP | 0156 | +10 | 46 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 2 | 55.8 | 1.56 | * | 0.91 | * | 8.32 30.40 1.0 |
| 10 | 55.3 | 1.36 | * | 1.07 | * | * * * |
| 40 | 74.0 | 1.77 | * | * | * | 8.18 30.57 1.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM023 | 57 31.2N | 159 42.2W | 20 SEP | 0433 | +10 | 55 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 72.1 | 1.54 | * | 0.87 | * | 7.48 31.31 1.3 |
| 10 | 70.2 | 1.58 | * | 1.04 | * | 7.48 31.32 1.3 |
| 30 | 70.7 | 1.49 | * | 0.85 | * | 7.44 31.31 1.3 |
| 49 | 70.5 | 1.62 | * | 0.50 | * | 7.40 31.30 1.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM024 | 57 3.3N | 159 48.0W | 20 SEP | 0700 | +10 | 58 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 63.1 | 1.04 | * | 0.36 | * | 8.31 31.60 1.2 |
| 10 | 64.4 | 1.08 | * | 0.44 | * | 8.31 31.59 1.2 |
| 51 | 70.5 | 1.24 | * | 1.02 | * | 8.09 31.61 1.3 |

CRUISE NUMBER
RP-4-D1-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 58 22.8N 158 24.0W 20 SEP 1420 +10 24

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 87.8 0.65 * 0.46 * 9.81 30.21 1.7
10 49.7 0.25 * 0.42 * * * *
18 49.4 0.50 * 0.38 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM25A 57 17.0N 157 55.0W 20 SEP 1700 +10 26

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 47.1 0.59 * 0.42 * 10.97 26.57 0.9
11 43.1 0.27 * 0.15 * 10.96 26.59 0.8
21 44.5 0.50 * 0.27 * 10.96 25.62 0.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM026 57 25.2N 158 23.5W 20 SEP 1155 +10 39

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 47.5 0.86 * 0.50 * 9.81 30.21 0.9
10 47.7 0.83 * 0.60 * 9.81 30.21 0.9
35 48.0 0.85 * 0.43 * 9.81 30.21 0.9

CRUISE NUMBER
RP-4-DI-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM26A 57 54.1N 157 57.8W 20 SEP 1900 +10 24

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|-------|-------|-----|
| 1 | 48.7 | 0.66 | * | 0.39 | * | 10.46 | 29.34 | 0.9 |
| 10 | 50.5 | 0.85 | * | 0.51 | * | 10.45 | 29.44 | 1.0 |
| 20 | 51.2 | 0.63 | * | 0.58 | * | 10.38 | 29.64 | 1.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM027 57 26.1N 158 23.6W 20 SEP 2140 +10 33

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|-------|-------|-----|
| 1 | 67.5 | 1.03 | * | 0.63 | * | 10.07 | 30.91 | 1.3 |
| 8 | 65.0 | 1.00 | * | 0.52 | * | 10.08 | 30.91 | 1.3 |
| 27 | 64.5 | 0.95 | * | 0.50 | * | 10.06 | 30.92 | 1.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM27A 56 38.1N 159 44.9W 21 SEP 0302 +10 31

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|---|------|---|------|-------|-----|
| 1 | 125.2 | 1.05 | * | 0.30 | * | * | * | * |
| 10 | 111.9 | 0.92 | * | 0.76 | * | 9.90 | 30.85 | 2.2 |
| 26 | 111.1 | 0.94 | * | 0.84 | * | 9.90 | 30.87 | 2.2 |

CRUISE NUMBER
RP-4-DI-753-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM028 56 5.9N 160 39.4W 21 SEP 0645 +10 17

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|---|------|---|---|---|---|
| 2 | 283.5 | 1.13 | * | 1.16 | * | * | * | * |
| 10 | 141.2 | 1.05 | * | 0.97 | * | * | * | * |
| 12 | 161.6 | 0.49 | * | 1.12 | * | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM029 56 29.1N 161 7.0W 21 SEP 1415 +10 69

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 2 | 56.1 | 0.98 | * | 0.39 | * | 7.83 | 31.83 | 1.1 |
| 10 | 57.4 | 0.89 | * | 0.37 | * | 7.81 | 31.82 | 1.1 |
| 30 | 57.6 | 0.84 | * | 0.37 | * | 7.74 | 31.83 | 1.1 |
| 64 | 91.5 | 1.48 | * | 0.83 | * | 2.78 | 31.92 | 1.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM030 56 53.8N 162 35.6W 21 SEP 2005 +10 71

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|-------|---|------|---|------|-------|-----|
| 1 | 62.4 | 0.96 | * | 1.41 | * | 7.37 | 31.74 | 1.1 |
| 11 | 51.9 | 0.85 | * | 0.25 | * | 7.37 | 31.71 | 0.9 |
| 30 | 84.8 | 1.75 | * | 0.64 | * | 6.58 | 31.53 | 1.5 |
| 67 | 78.6 | 11.69 | * | 0.77 | * | 5.10 | 31.66 | 1.4 |

CRUISE NUMBER
RP-4-DI-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM031 56 44.7N 163 37.3W 22 SEP 0045 +10 68

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 2 | 48.5 | 0.65 | * | 0.20 | * | 5.51 | 31.77 | 0.8 |
| 10 | 49.4 | 0.67 | * | 0.58 | * | 5.51 | 31.77 | 0.8 |
| 30 | 50.7 | 0.87 | * | 0.65 | * | 5.51 | 31.77 | 0.9 |
| 63 | 65.6 | 1.38 | * | 0.33 | * | 1.68 | 31.95 | 1.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM032 56 33.3N 164 0.6W 22 SEP 0310 +10 78

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 47.5 | 0.39 | * | 0.12 | * | 6.23 | 31.78 | 0.8 |
| 10 | 46.6 | 0.38 | * | 0.23 | * | 6.24 | 31.77 | 0.8 |
| 30 | 70.8 | 1.22 | * | 0.29 | * | 5.76 | 30.98 | 1.2 |
| 74 | 72.5 | 1.20 | * | 0.88 | * | 1.77 | 32.06 | 1.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM033 56 9.2N 162 38.4W 22 SEP 0630 +10 77

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 50.6 | 0.67 | * | 0.11 | * | 7.60 | 31.86 | 1.0 |
| 10 | 57.5 | 0.70 | * | 0.25 | * | 7.61 | 31.86 | 1.1 |
| 30 | 58.6 | 0.80 | * | 0.10 | * | 7.52 | 31.56 | 1.1 |
| 71 | 50.7 | 1.53 | * | 0.30 | * | 2.93 | 32.10 | 1.0 |

CRUISE NUMBER
RP-4-DI-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM034 | 55 44.3N | 162 13.4W | 22 SEP | 1154 | +10 | 20 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 137.6 | 1.17 | * | 0.80 | * | 8.79 31.03 2.6 |
| 10 | 71.8 | 1.16 | * | 0.75 | * | 8.80 31.37 1.4 |
| 15 | 69.9 | 1.01 | * | 0.68 | * | 8.79 31.37 1.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM34A | 55 36.9N | 162 28.6W | 22 SEP | 1305 | +10 | 31 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|-------|
| 0 | 70.1 | 1.19 | * | 0.71 | * | * * * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM34B | 55 27.2N | 162 42.5W | 22 SEP | 1435 | +10 | 20 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|-------|
| 0 | 62.0 | 0.78 | * | 0.57 | * | * * * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM34C | 55 24.9N | 162 53.5W | 22 SEP | 1820 | +10 | 32 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|-------|
| 0 | 76.9 | 0.90 | * | 0.48 | * | * * * |

CRUISE NUMBER
RP-4-D1-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34D 55 32.5N 163 5.0W 22 SEP 1915 +10 52

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 75.1 1.27 * 0.63 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34E 55 40.3N 163 15.6W 22 SEP 2025 +10 62

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 79.5 1.03 * 0.48 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34F 55 48.1N 163 27.5W 22 SEP 2125 +10 76

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 67.7 0.88 * 0.41 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34G 55 55.7N 163 38.4W 22 SEP 2215 +10 89

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 74.6 0.89 * 0.47 * * * *

CRUISE NUMBER
RP-4-DI-75B-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34H 55 17.5N 163 4.5W 23 SEP 0140 +10 27

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 66.6 0.81 * 0.44 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM34I 55 10.9N 163 16.7W 23 SEP 0240 +10 26

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 80.6 0.74 * 0.38 * * * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM35 55 5.9N 163 32.5W 23 SEP 0405 +10 24

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 101.8 0.81 * 0.40 * * * *
10 88.5 0.80 * 0.46 * 8.21 31.57 1.3
18 70.7 1.04 * 0.50 * 8.22 31.59 1.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM35A 55 14.7N 163 40.7W 23 SEP 0530 +10 60

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

0 73.2 1.03 * 0.46 * * * *

CRUISE NUMBER
RP-4-DI-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM356 | 55 22.8N | 163 48.9W | 23 SEP | 0625 | +10 | 74 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | | |
|-------|---------|-----------------|-------------------|------|-----|------|---|---|
| 0 | 82.9 | 0.99 | * | 0.32 | * | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM356 | 55 31.5N | 163 56.9W | 23 SEP | 0735 | +10 | 91 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | | |
|-------|---------|-----------------|-------------------|------|-----|------|-------|-----|
| 2 | 74.8 | 0.99 | * | 0.39 | * | 7.85 | 31.85 | 1.5 |
| 10 | 74.7 | 0.91 | * | 0.41 | * | 7.86 | 31.85 | 1.4 |
| 30 | 77.3 | 1.07 | * | 0.42 | * | 7.78 | 31.85 | 1.4 |
| 80 | 151.4 | 1.97 | * | 0.46 | * | 5.18 | 32.43 | 2.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM357 | 55 53.1N | 164 19.3W | 23 SEP | 1155 | +10 | 92 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | | |
|-------|---------|-----------------|-------------------|------|-----|------|-------|-----|
| 2 | 74.4 | 0.34 | * | 0.33 | * | 7.67 | 31.92 | 1.4 |
| 10 | 66.3 | 0.65 | * | 0.25 | * | 7.67 | 31.92 | 1.2 |
| 30 | 67.2 | 0.70 | * | 0.27 | * | 7.66 | 31.91 | 1.2 |
| 86 | 163.0 | 1.93 | * | 0.43 | * | 5.23 | 32.57 | 2.7 |

CRUISE NUMBER
RP-4-DI-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM038 | 56 18.2N | 164 41.4W | 23 SEP | 2105 | +10 | 88 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 2 | 57.2 | 0.37 | * | 0.25 | * | 6.64 31.85 1.0 |
| 10 | 57.2 | 0.80 | * | 0.86 | * | 6.61 31.82 1.0 |
| 29 | 57.2 | 0.86 | * | 0.87 | * | 6.49 31.84 1.0 |
| 59 | 154.6 | 1.81 | * | 0.41 | * | 3.99 32.45 2.7 |
| 83 | 160.5 | 2.11 | * | 0.48 | * | 4.00 32.46 2.9 |
| 86 | 157.4 | 2.09 | * | 0.45 | * | 4.01 32.46 2.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM039 | 56 42.0N | 165 5.0W | 23 SEP | 2340 | +10 | 75 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 0 | 56.0 | 0.76 | * | * | * | 4.73 31.73 0.9 |
| 10 | 54.5 | 0.76 | * | 0.76 | * | 4.70 31.75 0.9 |
| 30 | 55.9 | 0.71 | * | 0.72 | * | 4.47 31.71 0.9 |
| 72 | 105.7 | 1.55 | * | 0.40 | * | 1.38 32.06 1.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM040 | 57 5.0N | 165 28.0W | 24 SEP | 0115 | +10 | 71 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 57.7 | 0.35 | * | 0.21 | * | 4.95 31.67 1.0 |
| 11 | 57.1 | 0.81 | * | 0.71 | * | 4.94 31.67 1.0 |
| 30 | 57.4 | 0.76 | * | 0.19 | * | 4.67 31.55 1.0 |
| 67 | 09.8 | 2.68 | * | 1.29 | * | 1.11 31.83 1.4 |

CRUISE NUMBER
RP-4-01-758-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM041 50 44.3N 166 56.9W 28 SEP 0100 +10 88

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|---|------|---|------|-------|-----|
| 2 | 42.1 | 0.54 | * | 0.33 | * | 5.50 | 31.60 | 0.7 |
| 10 | 42.1 | 0.20 | * | 0.57 | * | 5.50 | 31.80 | 0.7 |
| 41 | 118.1 | 1.04 | * | 0.67 | * | 5.44 | 31.65 | 2.0 |
| 64 | 206.4 | 1.15 | * | 0.27 | * | 1.76 | 32.19 | 3.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 50 18.8N 166 59.3W 28 SEP 0340 +10 110

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|------|
| 3 | 54.5 | 0.53 | * | 0.28 | * | 6.98 | 32.00 | 1.0 |
| 10 | 54.9 | 0.57 | * | 0.33 | * | 6.98 | 31.99 | 1.0 |
| 41 | 55.0 | 0.57 | * | 0.24 | * | 6.98 | 31.99 | 1.0 |
| 103 | 614.9 | 1.55 | * | 0.32 | * | 3.46 | 32.66 | 10.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM043 55 54.0N 166 20.6W 28 SEP 0610 +10 126

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|------|
| 1 | 48.9 | 0.55 | * | 0.26 | * | 7.36 | 32.08 | 0.9 |
| 10 | 48.0 | 0.50 | * | 0.26 | * | 7.35 | 32.09 | 0.8 |
| 38 | 50.0 | 0.00 | * | 0.25 | * | 7.34 | 32.09 | 0.9 |
| 122 | 581.4 | 1.30 | * | 0.28 | * | 3.03 | 32.88 | 10.1 |

CRUISE NUMBER
RP-4-DI-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM044 55 29.2N 160 1.0W 28 SEP 0905 +10 121

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PRUPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 3 | 54.2 | 0.58 | * | 0.28 | * | 7.26 | 32.10 | 1.0 |
| 10 | 52.2 | 0.59 | * | 0.24 | * | 7.26 | 32.10 | 0.9 |
| 40 | 62.8 | 0.74 | * | 0.26 | * | 7.10 | 32.25 | 1.1 |
| 114 | 502.1 | 1.23 | * | 0.23 | * | 3.95 | 32.92 | 9.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM045 55 8.5N 165 42.5W 28 SEP 1335 +10 128

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PRUPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 2 | 60.3 | 0.22 | * | * | * | 7.12 | 31.92 | 1.1 |
| 11 | 62.8 | 0.69 | * | 0.35 | * | 7.12 | 31.93 | 1.1 |
| 42 | 105.7 | 0.97 | * | 0.41 | * | 5.38 | 32.63 | 1.9 |
| 121 | 171.0 | 1.02 | * | 0.36 | * | 4.21 | 33.05 | 3.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM43A 55 23.5N 164 20.0W 28 SEP 1655 +10 106

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PRUPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 2 | 59.2 | 3.47 | * | 0.37 | * | 7.18 | 32.03 | 1.1 |
| 11 | 62.4 | 0.72 | * | 0.35 | * | 7.18 | 32.03 | 1.1 |
| 41 | 78.3 | 0.87 | * | 0.39 | * | 6.95 | 32.18 | 1.4 |
| 80 | 100.1 | 1.04 | * | 0.30 | * | 4.81 | 32.84 | 1.9 |
| 101 | 113.2 | 0.44 | * | 0.41 | * | 4.71 | 32.88 | 2.0 |

CRUISE NUMBER
RP-4-01-758-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM45B | 55 40.1N | 164 3.6W | 28 SEP | 2220 | +10 | 95 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 54.9 | 0.73 | * | 0.35 | * | 7.62 31.87 1.0 |
| 9 | 50.0 | 0.70 | * | 0.34 | * | 7.62 31.88 0.9 |
| 40 | 71.5 | 0.76 | * | 0.34 | * | 7.16 32.04 1.3 |
| 80 | 118.3 | 1.45 | * | 0.47 | * | 4.99 32.56 2.1 |
| 90 | 117.7 | 1.41 | * | 0.44 | * | 4.99 32.57 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM46A | 54 38.4N | 165 24.7W | 29 SEP | 0505 | +10 | 136 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 2 | 65.7 | 0.67 | * | 0.32 | * | * * * |
| 10 | 66.4 | 0.64 | * | 0.38 | * | * * * |
| 48 | 93.8 | 0.77 | * | 0.35 | * | 5.57 32.75 1.7 |
| 99 | 67.0 | 0.55 | * | 0.26 | * | 3.71 33.24 1.1 |
| 109 | 62.1 | 0.52 | * | 0.14 | * | 3.57 33.27 1.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM46B | 54 38.4N | 165 24.7W | 29 SEP | 0950 | +10 | 136 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 2 | 203.9 | 0.83 | * | 0.34 | * | 6.87 31.80 3.8 |
| 47 | 66.7 | 0.80 | * | 0.29 | * | 6.60 32.53 1.6 |
| 97 | 95.3 | 0.94 | * | 0.32 | * | 4.53 33.00 1.6 |
| 120 | 61.5 | 0.57 | * | 0.23 | * | 3.52 33.28 1.0 |

CRUISE NUMBER
RP-4-D1-753-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46C 54 38.4N 165 24.7W 29 SEP 1355 +10 136

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 1 | 193.4 | 0.81 | * | 0.25 | * | 7.43 | 31.62 | 3.0 |
| 10 | 192.5 | 0.72 | * | 0.22 | * | 7.43 | 31.62 | 3.6 |
| 50 | 170.0 | 0.87 | * | 0.23 | * | 6.60 | 32.07 | 3.1 |
| 98 | 73.0 | 0.66 | * | 0.10 | * | 3.77 | 33.20 | 1.2 |
| 148 | 59.1 | 0.48 | * | 0.15 | * | 3.54 | 33.31 | 1.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46D 54 38.4N 165 24.7W 29 SEP 1805 +10 136

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 0 | 102.0 | 0.81 | * | * | * | * | * | * |
| 11 | 226.0 | 0.72 | * | 0.20 | * | 7.49 | 31.59 | 4.3 |
| 46 | 214.3 | 0.90 | * | 0.23 | * | 6.63 | 31.96 | 4.0 |
| 93 | 143.3 | 0.87 | * | 0.19 | * | 6.20 | 32.39 | 2.6 |
| 128 | 128.8 | 0.91 | * | 0.20 | * | 5.92 | 32.49 | 2.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46E 54 38.4N 165 24.7W 29 SEP 2200 +10 136

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|---|------|---|------|-------|-----|
| 1 | 192.1 | 0.84 | * | 0.21 | * | 6.61 | 31.87 | 3.5 |
| 50 | 151.3 | 1.31 | * | 0.30 | * | 6.39 | 32.26 | 2.6 |
| 100 | 132.1 | 0.83 | * | 0.31 | * | 6.22 | 32.45 | 2.4 |
| 143 | 116.2 | 0.76 | * | 0.12 | * | 5.29 | 32.78 | 2.1 |

CRUISE NUMBER
RP-4-01-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46F 54 38.4N 165 24.7W 30 SEP 0210 +10 136

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 161.7 0.78 * 0.14 * 6.57 31.96 3.0
11 102.0 0.64 * 0.14 * 6.55 32.23 1.9
51 96.1 0.69 * 0.16 * 6.18 32.67 1.7
99 81.0 0.61 * * * 5.00 32.88 1.4
121 70.2 0.59 * 0.07 * 4.31 33.07 1.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM46G 54 38.4N 165 24.7W 30 SEP 0555 +10 136

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 61.3 0.49 * 0.24 * 6.71 32.49 1.1
10 51.0 0.51 * 0.26 * 6.80 32.64 0.9
50 85.4 0.72 * 0.27 * 5.65 32.78 1.5
101 65.9 0.57 * 0.21 * 5.71 33.20 1.1
128 64.8 0.56 * 0.23 * 5.58 33.28 1.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM47 54 12.5N 165 5.1W 30 SEP 1155 +10 91

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

1 150.5 1.05 * 0.78 * 6.74 32.00 2.9
10 145.5 0.22 * 0.10 * 6.74 32.00 2.7
41 129.4 0.81 * 0.31 * 6.70 32.07 2.4
88 161.0 0.92 * 0.28 * 5.96 32.47 2.9

CRUISE NUMBER
RP-4-01-750-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB035 | 57 13.5N | 168 20.0W | 26 SEP | 0420 | +10 | 160 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 39.1 | 0.54 | * | 0.26 | * | 7.17 32.04 0.7 |
| 21 | 39.9 | 0.21 | * | 0.20 | * | 7.17 32.07 0.7 |
| 50 | 50.2 | 0.69 | * | 0.24 | * | 7.01 32.19 0.9 |
| 101 | 189.8 | 0.95 | * | 0.26 | * | 3.34 32.79 3.2 |
| 148 | 256.4 | 0.56 | * | 0.25 | * | 3.23 33.48 4.4 |
| 151 | 257.9 | 0.65 | * | 0.22 | * | * * * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB37A | 57 5.5N | 167 0.6W | 26 SEP | 1155 | +10 | 74 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 15.7 | 0.07 | * | 1 | * | 5.23 31.67 0.2 |
| 11 | 22.1 | 0.32 | * | 0.20 | * | 5.19 31.66 0.3 |
| 31 | 39.5 | 0.64 | * | 0.39 | * | 5.14 31.67 0.7 |
| 71 | 66.6 | 1.58 | * | 0.54 | * | 1.87 31.96 1.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB37B | 57 5.3N | 167 0.6W | 26 SEP | 1500 | +10 | 74 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 1 | 41.9 | 0.70 | * | 0.41 | * | 5.35 31.70 0.7 |
| 11 | 39.2 | 0.64 | * | 0.38 | * | 5.31 31.58 0.7 |
| 31 | 39.9 | 0.70 | * | 0.39 | * | 5.06 31.70 0.7 |
| 70 | 72.4 | 1.60 | * | 0.51 | * | 1.99 31.97 1.1 |

CRUISE NUMBER
RP-4-01-758-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37C 57 5.3N 167 0.6W 26 SEP 1900 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 38.5 | 0.20 | * | 0.32 | * | 5.32 | 31.67 | 0.6 |
| 10 | 39.9 | 0.72 | * | 0.33 | * | 5.31 | 31.67 | 0.7 |
| 30 | 40.2 | 0.70 | * | 0.30 | * | 5.19 | 31.65 | 0.7 |
| 69 | 74.9 | 1.70 | * | 0.44 | * | 1.95 | 31.69 | 1.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37D 57 5.3N 167 0.6W 26 SEP 2300 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 42.5 | 0.77 | * | 0.30 | * | 5.29 | 31.67 | 0.7 |
| 11 | 39.9 | 0.63 | * | 0.29 | * | 5.29 | 31.67 | 0.7 |
| 31 | 39.6 | 0.62 | * | 0.25 | * | 5.11 | 31.68 | 0.7 |
| 69 | 73.3 | 1.58 | * | 0.39 | * | 2.03 | 31.97 | 1.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37E 57 5.3N 167 0.6W 27 SEP 0255 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 30.8 | 0.63 | * | 0.34 | * | 5.28 | 31.67 | 0.6 |
| 11 | 38.9 | 0.63 | * | 0.31 | * | 5.28 | 31.67 | 0.7 |
| 30 | 40.5 | 0.64 | * | 0.31 | * | 5.10 | 31.68 | 0.7 |
| 69 | 75.0 | 1.55 | * | 0.44 | * | 1.97 | 31.96 | 1.2 |

CRUISE NUMBER
RP-4-01-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37F 57 5.3N 167 0.6W 27 SEP 0700 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 45.1 | 0.80 | * | 0.41 | * | * | * | * |
| 10 | 39.3 | 0.61 | * | 0.33 | * | * | * | * |
| 30 | 39.9 | 0.57 | * | 0.28 | * | 5.17 | 31.65 | 0.7 |
| 69 | 73.9 | 1.67 | * | 0.48 | * | 1.86 | 31.95 | 1.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37G 57 5.3N 167 0.6W 27 SEP 1050 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 39.7 | 0.64 | * | 0.33 | * | 5.31 | 31.69 | 0.7 |
| 9 | 41.6 | 0.66 | * | 0.33 | * | 5.29 | 31.67 | 0.7 |
| 29 | 39.2 | 0.56 | * | 0.31 | * | 5.01 | 31.72 | 0.7 |
| 69 | 71.9 | 1.61 | * | 0.44 | * | 2.02 | 31.96 | 1.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB37H 57 5.3N 167 0.5W 27 SEP 1505 +10 74

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 2 | 46.7 | 0.36 | * | 0.37 | * | 5.31 | 31.69 | 0.8 |
| 10 | 39.5 | 0.65 | * | 0.32 | * | 5.29 | 31.67 | 0.7 |
| 30 | 41.3 | 0.79 | * | 0.30 | * | 5.01 | 31.72 | 0.7 |
| 69 | 75.2 | 1.59 | * | 0.33 | * | 2.02 | 31.96 | 1.2 |

CRUISE NUMBER
RP-4-01-756-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB37I | 57 5.3N | 167 0.6W | 27 SEP | 1900 | +10 | 74 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|------|-------|
| 1 | 40.9 | 0.67 | * | 0.28 | * | * |
| 10 | 39.4 | 0.70 | * | 0.34 | * | * |
| 31 | 41.3 | 0.76 | * | 0.30 | 5.04 | 31.70 |
| 69 | 75.1 | 1.62 | * | 0.47 | 1.99 | 31.96 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB37J | 57 5.3N | 167 0.6W | 27 SEP | 2300 | +10 | 74 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|------|
| 1 | 40.0 | 0.73 | * | 0.65 | * | 5.25 |
| 10 | 39.3 | 0.65 | * | 0.64 | * | 5.25 |
| 29 | 39.7 | 0.61 | * | 0.63 | * | 5.13 |
| 69 | 74.6 | 1.59 | * | 0.39 | * | 2.04 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB038 | 57 40.4N | 166 6.3W | 24 SEP | 2220 | +10 | 64 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|------|
| 1 | 70.7 | 1.22 | * | 1.19 | * | 4.95 |
| 10 | 59.6 | 0.51 | * | 0.35 | * | 4.95 |
| 20 | 61.5 | 1.07 | * | 0.79 | * | 4.95 |
| 41 | 95.8 | 2.13 | * | 0.51 | * | 0.76 |
| 60 | 90.6 | 2.30 | * | 0.54 | * | * |

CRUISE NUMBER
RP-4-01-75B-III

LOCATION
SOUTHEAST BEKING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM048 53 37.6N 164 43.0W 30 SEP 1645 +10 558

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|-----|------|------|---|------|---|---|---|---|
| 0 | 61.9 | 0.56 | * | 0.36 | * | * | * | * |
| 22 | 60.8 | 0.60 | * | 0.32 | * | * | * | * |
| 296 | 65.3 | 0.41 | * | 0.29 | * | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB038 57 40.4N 166 0.3W 24 SEP 2220 +10 64

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|---|------|---|------|-------|-----|
| 1 | 70.7 | 1.22 | * | 1.19 | * | 4.95 | 31.63 | 1.2 |
| 10 | 59.8 | 0.51 | * | 0.36 | * | 4.95 | 31.63 | 1.0 |
| 20 | 61.5 | 1.07 | * | 0.79 | * | 4.95 | 31.63 | 1.0 |
| 41 | 95.8 | 2.13 | * | 0.51 | * | 0.76 | 31.83 | 1.5 |
| 60 | 96.0 | 2.30 | * | 0.54 | * | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB041 58 46.9N 164 14.2W 24 SEP 1510 +10 36

DEPTH METHANE (ETHANE+ETHENE) (PROPANE+PROPENE) TEMP SAL C/C*

| | | | | | | | | |
|---|------|------|---|------|---|------|-------|-----|
| 0 | 59.5 | 0.44 | * | 0.26 | * | 6.68 | 30.80 | 1.1 |
| 0 | 53.2 | 0.78 | * | 0.76 | * | 6.68 | 30.80 | 1.0 |
| 0 | 54.7 | 0.78 | * | 0.23 | * | 6.68 | 30.80 | 1.0 |

CRUISE NUMBER
RP-4-DI-758-III

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB043 | 58 42.3N | 166 16.5W | 17 SEP | 0200 | +10 | 37 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | |
|-------|---------|-----------------|-------------------|------|------|-------|-----|
| 30 | 53.7 | 1.03 | * | * | 7.50 | 31.35 | 1.0 |
| 30 | 53.6 | 1.04 | * | 0.66 | 7.50 | 31.35 | 1.0 |
| 30 | 51.2 | 1.01 | * | 0.72 | 7.50 | 31.35 | 0.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB046 | 57 34.0N | 166 4.2W | 25 SEP | 0350 | +10 | 70 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | |
|-------|---------|-----------------|-------------------|------|------|-------|-----|
| 2 | 53.0 | 0.74 | * | 0.55 | * | * | * |
| 10 | 53.1 | 0.80 | * | 0.65 | 5.16 | 31.65 | 0.9 |
| 22 | 54.2 | 0.78 | * | 0.71 | 5.17 | 31.65 | 0.9 |
| 41 | 67.9 | 2.38 | * | 0.75 | 0.29 | 31.87 | 1.3 |
| 55 | 90.2 | 2.40 | * | 0.59 | 0.24 | 31.94 | 1.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB051 | 55 49.2N | 170 47.5W | 25 SEP | 1730 | +10 | 2286 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* | |
|-------|---------|-----------------|-------------------|------|------|-------|-----|
| 1 | 52.5 | 0.85 | * | 0.29 | 7.20 | 32.54 | 0.9 |
| 51 | 63.9 | 1.14 | * | 0.44 | 5.53 | 32.62 | 1.5 |
| 101 | 92.7 | 1.02 | * | 0.35 | 3.73 | 33.05 | 1.6 |
| 199 | 64.9 | 0.76 | * | 0.32 | 2.86 | 33.19 | 1.1 |
| 298 | 67.5 | 0.67 | * | 0.30 | 3.16 | 33.42 | 1.1 |
| 401 | 60.6 | 0.25 | * | 0.31 | 3.50 | 33.70 | 1.0 |

CRUISE NUMBER
RP-4-D1-75B-111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
12 SEP-03 OCT 1975

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| EB059 | 59 11.8N | 167 17.8W | 16 SEP | 0035 | +10 | 38 |

| DEPTH | METHANE | (ETHANE+ETHENE) | (PROPANE+PROPENE) | TEMP | SAL | C/C* |
|-------|---------|-----------------|-------------------|------|-----|----------------|
| 32 | 56.4 | 1.19 | * | 0.44 | * | 6.89 31.26 1.0 |
| 32 | 53.7 | 1.17 | * | 0.43 | * | 6.89 31.26 1.0 |
| 32 | 52.4 | 1.06 | * | 0.42 | * | 6.89 31.26 0.9 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM001 58 45.9N 167 22.7W 29 JUN 1635 + 9 44

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 118.3 | 1.20 | 4.06 | 0.59 | 1.02 | 2.33 | 31.51 | 1.9 |
| 11 | 115.0 | 0.89 | 3.77 | 0.47 | 0.86 | 2.04 | 31.44 | 1.8 |
| 22 | 109.1 | 0.77 | 3.42 | 0.46 | 0.73 | 1.82 | 31.51 | 1.7 |
| 38 | 112.5 | 0.86 | 3.59 | 0.47 | 0.78 | 1.81 | 31.52 | 1.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM002 59 4.5N 166 48.2W 29 JUN 2010 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 2 | 83.0 | 0.70 | 3.37 | 0.35 | 0.98 | 2.63 | 31.36 | 1.3 |
| 12 | 77.5 | 0.63 | 2.83 | 0.29 | 0.78 | 2.46 | 31.34 | 1.2 |
| 22 | 74.8 | 0.51 | 2.49 | 0.26 | 0.76 | 2.43 | 31.35 | 1.2 |
| 30 | 73.2 | 0.52 | 2.47 | 0.26 | 0.77 | 2.43 | 31.36 | 1.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM003 59 24.5N 166 16.3W 30 JUN 1815 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 2 | 87.0 | 0.64 | 3.16 | 0.34 | 1.15 | 3.57 | 31.69 | 1.4 |
| 11 | 80.5 | 0.52 | 2.48 | 0.21 | 0.99 | 3.41 | 31.70 | 1.3 |
| 21 | 74.5 | 0.54 | 2.33 | 0.20 | 0.88 | 3.40 | 31.71 | 1.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM004 | 59 39.5N | 165 53.2W | 30 JUN | 2045 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 95.2 | 0.80 | 4.50 | 0.33 | 1.70 | 4.56 | 31.60 | 1.6 |
| 11 | 99.0 | 0.74 | 3.17 | 0.34 | 1.42 | 4.53 | 31.60 | 1.7 |
| 20 | 95.9 | 0.82 | 3.19 | 0.29 | 1.36 | 4.53 | 31.61 | 1.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM005 | 59 31.2N | 164 23.9W | 01 JUL | 1037 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 148.3 | 0.91 | 3.55 | 1.55 | 6.15 | 5.72 | 30.71 | 2.6 |
| 11 | 147.6 | 0.50 | 3.20 | 0.40 | 1.63 | 5.61 | 30.90 | 2.6 |
| 13 | 143.2 | 0.61 | 3.30 | 0.39 | 1.62 | 5.51 | 31.03 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM006 | 59 8.3N | 164 56.5W | 01 JUL | 0515 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 93.1 | 0.91 | 3.39 | 0.66 | 2.54 | 3.95 | 31.14 | 1.6 |
| 11 | 91.6 | 0.79 | 3.19 | 0.31 | 1.26 | 3.95 | 31.14 | 1.5 |
| 21 | 93.1 | 0.65 | 3.24 | 0.32 | 1.27 | 3.95 | 31.14 | 1.6 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM007 58 47.7N 165 27.0W 01 JUL 0755 + 9 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 2 | 95.4 | 0.94 | 3.41 | 0.39 | 1.24 | 3.22 | 31.20 | 1.6 |
| 12 | 95.3 | 0.75 | 3.29 | 0.32 | 1.16 | 3.21 | 31.21 | 1.6 |
| 22 | 91.9 | 0.74 | 3.54 | 0.32 | 1.17 | 3.21 | 31.20 | 1.5 |
| 27 | 93.2 | 0.79 | 3.27 | 0.32 | 1.13 | 3.21 | 31.20 | 1.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM008 58 24.6N 165 56.3W 29 JUN 1240 + 9 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 2 | 74.3 | 0.71 | 3.03 | 0.37 | 1.01 | 3.07 | 31.45 | 1.2 |
| 12 | 80.2 | 0.79 | 2.63 | 0.35 | 0.73 | 1.35 | 31.46 | 1.2 |
| 22 | 78.6 | 0.71 | 2.46 | 0.35 | 0.74 | 1.30 | 31.46 | 1.2 |
| 36 | 79.3 | 0.68 | 2.57 | 0.35 | 0.73 | 1.28 | 31.48 | 1.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM009 57 50.8N 164 54.2W 29 JUN 0730 + 9 50

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 4 | 51.7 | 0.57 | 1.93 | 0.27 | 0.64 | 3.09 | 31.60 | 0.8 |
| 11 | 49.4 | 0.33 | 1.35 | 0.21 | 0.41 | 1.60 | 31.62 | 0.8 |
| 21 | 49.6 | 0.28 | 1.42 | 0.21 | 0.42 | 1.58 | 31.62 | 0.8 |
| 41 | 58.3 | 0.50 | 1.44 | 0.26 | 0.46 | 1.55 | 31.63 | 0.9 |
| 45 | 61.9 | 0.51 | 1.55 | 0.28 | 0.46 | 1.55 | 31.66 | 1.0 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM010 58 14.0N 164 23.3W 01 JUL 1240 + 9 45

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 100.0 | 0.57 | 3.61 | 0.38 | 1.18 | 3.25 | 31.54 | 1.7 |
| 11 | 99.4 | 0.65 | 3.15 | 0.39 | 0.90 | 2.23 | 31.50 | 1.6 |
| 21 | 100.0 | 0.69 | 3.08 | 0.40 | 0.89 | 1.94 | 31.56 | 1.7 |
| 41 | 100.9 | 0.70 | 3.09 | 0.39 | 0.80 | 1.91 | 31.57 | 1.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM011 58 37.5N 163 51.3W 01 JUL 1710 + 9 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 100.7 | 0.73 | 3.80 | 0.37 | 1.36 | 4.01 | 31.35 | 1.7 |
| 11 | 98.7 | 0.54 | 3.28 | 0.33 | 1.16 | 3.36 | 31.40 | 1.6 |
| 21 | 97.6 | 0.59 | 3.08 | 0.57 | 1.39 | 3.33 | 31.45 | 1.6 |
| 30 | 101.0 | 0.69 | 3.38 | 0.36 | 1.31 | 3.35 | 31.48 | 1.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM012 58 55.0N 163 21.4W 01 JUL 1940 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 102.5 | 0.70 | 3.76 | 0.49 | 1.69 | 4.57 | 31.86 | 1.8 |
| 11 | 103.3 | 0.65 | 3.70 | 0.40 | 1.64 | 4.54 | 31.85 | 1.8 |
| 22 | 100.8 | 0.73 | 3.05 | 0.44 | 1.00 | 4.53 | 31.85 | 1.7 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM013 58 33.3N 162 9.1W 02 JUL 0019 + 9 35

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 435.0 | 0.85 | 3.32 | 0.53 | 1.45 | 4.86 | 31.60 | 7.7 |
| 12 | 428.2 | 0.75 | 3.23 | 0.49 | 1.44 | 4.86 | 31.60 | 7.6 |
| 22 | 426.3 | 0.75 | 3.34 | 0.51 | 1.46 | 4.84 | 31.60 | 7.5 |
| 31 | 425.0 | 0.77 | 3.34 | 0.48 | 1.40 | 4.84 | 31.61 | 7.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM014 58 9.9N 162 40.8W 02 JUL 0319 + 9 36

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 134.6 | 0.70 | 3.31 | 0.41 | 1.35 | 3.99 | 31.55 | 2.3 |
| 12 | 136.4 | 0.79 | 3.36 | 0.42 | 1.30 | 3.89 | 31.55 | 2.3 |
| 21 | 137.3 | 0.79 | 3.39 | 0.46 | 1.35 | 3.85 | 31.55 | 2.3 |
| 32 | 141.1 | 0.88 | 3.44 | 0.46 | 1.35 | 3.83 | 31.55 | 2.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM015 57 48.2N 163 14.7W 02 JUL 0625 + 9 45

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 3 | 109.0 | 0.61 | 3.64 | 0.40 | 1.33 | 3.96 | 31.83 | 1.8 |
| 11 | 109.9 | 0.79 | 3.54 | 0.40 | 1.27 | 3.34 | 31.59 | 1.8 |
| 22 | 123.0 | 0.93 | 3.24 | 0.47 | 0.99 | 2.56 | 31.85 | 2.0 |
| 42 | 124.3 | 0.87 | 3.15 | 0.49 | 1.01 | 2.53 | 31.86 | 2.0 |

CRUISE NUMBER
RP-4-MW-70-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM016 57 26.7N 163 48.3W 02 JUL 0945 + 9 52

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 96.2 1.00 3.28 0.46 1.16 2.99 31.91 1.6
12 95.0 0.90 3.26 0.46 1.08 2.81 31.85 1.6
22 101.5 1.27 3.05 0.50 0.77 1.39 31.88 1.6
50 101.0 1.17 3.05 0.49 0.73 1.32 31.93 1.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM017 57 7.1N 161 47.7W 02 JUL 2145 + 9 50

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 112.6 1.18 4.53 0.62 1.33 3.32 31.77 1.9
11 108.1 0.99 4.45 0.55 1.31 3.25 31.75 1.8
22 113.9 1.13 3.46 0.59 1.00 2.01 31.69 1.8
41 116.2 1.22 3.28 0.61 0.96 1.86 31.76 1.9
47 117.2 1.28 3.28 0.60 0.90 1.86 31.77 1.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM018 57 35.5N 161 39.4W 03 JUL 0035 + 9 49

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 88.2 0.71 3.59 0.28 1.19 4.94 31.75 1.5
12 107.3 0.85 3.12 0.36 0.80 2.46 31.52 1.7
22 117.7 0.99 2.95 0.42 0.54 1.95 31.85 1.9
46 119.3 1.07 2.99 0.43 0.57 1.94 31.66 1.9

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM019 58 5.4N 161 29.1W 03 JUL 0320 + 9 42

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 107.2 | 0.96 | 3.28 | 0.37 | 1.20 | 5.78 | 31.40 | 1.9 |
| 11 | 116.0 | 0.84 | 3.40 | 0.37 | 1.08 | 3.79 | 31.63 | 2.0 |
| 22 | 128.8 | 0.85 | 3.46 | 0.40 | 1.07 | 3.76 | 31.65 | 2.2 |
| 39 | 131.0 | 0.87 | 3.50 | 0.40 | 1.07 | 3.75 | 31.65 | 2.2 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM020 58 27.6N 161 26.6W 03 JUL 0730 + 9 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 134.3 | 0.74 | 3.03 | 0.43 | 1.34 | 6.94 | 31.16 | 2.5 |
| 11 | 134.4 | 0.65 | 3.05 | 0.41 | 1.32 | 6.92 | 31.17 | 2.5 |
| 20 | 134.9 | 0.67 | 3.08 | 0.43 | 1.41 | 6.92 | 31.17 | 2.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM021 58 26.8N 159 46.3W 03 JUL 1355 + 9 29

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 111.2 | 0.95 | 4.68 | 0.49 | 1.70 | 5.19 | 30.19 | 1.9 |
| 11 | 120.1 | 0.97 | 4.45 | 0.52 | 1.46 | 5.07 | 30.21 | 2.1 |
| 22 | 141.8 | 1.08 | 4.09 | 0.55 | 1.30 | 4.47 | 30.36 | 2.4 |
| 24 | 140.3 | 1.32 | 4.15 | 0.56 | 1.34 | 4.47 | 30.37 | 2.4 |

CRUISE NUMBER
RP-4-MW-78-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM022 58 1.0N 159 44.9W 03 JUL 1705 + 9 44

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 98.2 1.44 4.46 0.35 1.53 5.83 30.44 1.7
11 112.7 1.62 4.10 0.47 0.91 2.38 30.98 1.8
22 113.2 1.59 4.08 0.47 0.90 2.30 31.01 1.8
39 113.5 1.59 4.21 0.49 0.92 2.28 31.01 1.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM023 57 32.3N 159 47.3W 04 JUL 1340 + 9 52

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 118.9 1.46 4.29 0.50 1.17 2.54 31.54 1.9
11 120.7 1.56 3.96 0.48 0.93 2.17 31.53 1.9
21 120.0 1.59 4.04 0.49 0.96 2.08 31.55 1.9
41 120.9 1.58 4.01 0.47 0.95 2.06 31.56 1.9
47 120.8 1.49 4.00 0.44 0.94 2.05 31.56 1.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM024 57 4.0N 159 45.6W 04 JUL 1645 + 9 60

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 133.5 1.42 4.74 0.47 1.59 3.04 31.39 2.2
11 140.2 1.52 3.60 0.48 0.79 2.03 31.39 2.3
21 137.8 1.54 3.67 0.51 0.96 1.91 31.49 2.2
41 132.0 1.83 3.52 0.49 0.78 1.72 31.51 2.1
55 136.0 2.48 3.85 0.56 1.02 1.71 31.52 2.2

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM025 58 22.3N 158 26.2W 04 JUL 0030 + 9 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 154.4 | 0.97 | 3.10 | 0.42 | 1.50 | 9.82 | 23.27 | 2.9 |
| 11 | 134.9 | 0.85 | 3.39 | 0.45 | 1.58 | 9.43 | 24.73 | 2.5 |
| 21 | 130.1 | 0.76 | 2.86 | 0.44 | 1.53 | 9.37 | 24.90 | 2.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM25A 58 18.5N 157 54.6W 04 JUL 0250 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 3 | 91.5 | 0.63 | 3.46 | 0.41 | 1.49 | 9.45 | 26.25 | 1.7 |
| 11 | 93.1 | 0.62 | 3.30 | 0.41 | 1.54 | 9.42 | 26.34 | 1.7 |
| 20 | 99.5 | 0.62 | 3.66 | 0.44 | 1.58 | 8.75 | 27.11 | 1.8 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM026 57 56.0N 158 24.3W 02 JUL 2130 + 9 38

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 126.1 | 1.36 | 4.26 | 0.45 | 1.19 | 4.64 | 29.76 | 2.2 |
| 11 | 125.0 | 1.22 | 4.17 | 0.44 | 1.19 | 4.63 | 29.54 | 2.1 |
| 22 | 125.2 | 1.33 | 3.92 | 0.43 | 1.14 | 4.59 | 29.78 | 2.1 |
| 33 | 129.1 | 1.34 | 4.27 | 0.45 | 1.21 | 4.54 | 29.83 | 2.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM26A 57 56.0N 157 59.3W 04 JUL 0550 + 9 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 107.2 0.94 4.41 0.46 1.49 5.71 29.36 1.9
12 105.0 0.83 4.01 0.42 1.36 5.72 29.36 1.8
20 105.4 1.22 4.34 0.43 1.31 5.73 29.36 1.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM027 57 26.5N 158 25.8W 04 JUL 0945 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 169.7 1.16 4.01 0.56 1.39 4.69 30.77 2.9
11 105.0 1.28 3.92 0.51 1.32 4.55 30.81 2.9
21 150.2 1.37 3.85 0.51 1.28 4.40 30.86 2.7
28 153.9 1.45 4.00 0.51 1.34 4.37 30.86 2.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM27A 56 39.2N 159 46.0W 04 JUL 1935 + 9 37

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 360.0 1.30 4.81 0.61 1.75 6.29 30.17 6.5
12 278.5 1.30 3.67 0.59 1.37 4.16 30.85 4.6
22 180.5 1.18 3.64 0.52 1.18 3.24 31.15 3.0
33 172.1 1.12 3.62 0.48 1.09 3.22 31.16 2.9

CRUISE NUMBER
RP-4-MW-76-VI11

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM028 56 7.5N 160 38.4W 05 JUL 0120 + 9 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 1388.1 0.86 4.02 0.73 1.71 7.18 30.03 25.8
11 1183.4 1.17 4.16 0.74 1.57 6.61 30.26 21.8
19 296.5 1.36 3.79 0.78 0.97 3.68 30.90 5.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM029 56 29.7N 161 7.0W 05 JUL 0425 + 9 70

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 105.6 0.60 4.25 0.28 1.66 5.47 31.34 1.9
11 125.2 0.93 3.85 0.34 1.31 1.94 30.81 2.0
21 159.2 1.09 2.80 0.41 0.66 1.15 31.49 2.5
41 161.0 1.27 2.98 0.45 0.69 1.10 31.50 2.5
67 165.6 1.10 2.94 0.40 0.64 1.10 31.51 2.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM031 56 57.2N 163 22.7W 02 JUL 1250 + 9 67

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 76.9 0.44 2.41 0.19 1.25 5.28 31.39 1.3
12 75.8 0.29 2.61 0.19 1.04 5.26 31.38 1.3
22 93.3 0.76 2.15 0.34 0.53 0.07 30.85 1.4
42 102.7 1.06 1.87 0.47 0.50 -1.27 31.85 1.5
64 102.0 0.98 1.84 0.46 0.47 -1.28 31.86 1.5

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM032 56 33.8N 163 1.2W 02 JUL 1550 + 9 76

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|----------|-------|-----|
| 3 | 77.0 | 0.41 | 2.82 | 0.21 | 1.22 | 5.61 | 31.19 | 1.3 |
| 11 | 76.5 | 0.32 | 2.76 | 0.16 | 1.11 | 5.56 | 31.11 | 1.3 |
| 21 | 104.4 | 0.84 | 1.82 | 0.38 | 0.42 | 0-.47.00 | 31.21 | 1.5 |
| 41 | 104.7 | 1.25 | 1.76 | 0.36 | 0.37 | -1.20 | 31.75 | 1.5 |
| 71 | 103.4 | 1.05 | 1.70 | 0.41 | 0.61 | -1.21 | 31.77 | 1.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM033 56 10.3N 162 32.1W 05 JUL 0940 + 9 75

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|----------|-------|-----|
| 11 | 73.7 | 0.30 | 2.74 | 0.16 | * | 6.35 | 31.04 | 1.3 |
| 20 | 77.8 | 0.58 | 2.71 | 0.19 | 1.13 | 0.19 | 31.22 | 1.2 |
| 38 | 95.6 | 1.38 | 1.48 | 0.35 | 1.22 | 0-.57.00 | 31.71 | 1.4 |
| 71 | 94.7 | 1.30 | 1.40 | 0.37 | 0.29 | 0-.58.00 | 31.73 | 1.4 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM034 55 44.3N 162 13.5W 05 JUL 1310 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 125.2 | 2.55 | 3.72 | 0.59 | 0.83 | 5.40 | 31.05 | 2.2 |
| 11 | 124.4 | 2.48 | 3.65 | 0.55 | 0.63 | 5.08 | 31.02 | 2.2 |
| 25 | 118.1 | 2.44 | 3.12 | 0.51 | 0.37 | 3.65 | 31.27 | 2.0 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM035 55 6.1N 163 32.4W 05 JUL 2020 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 174.1 | 1.96 | 2.80 | 0.57 | 1.16 | 5.36 | 31.61 | 3.1 |
| 11 | 170.1 | 1.74 | 2.75 | 0.55 | 0.70 | 5.32 | 31.58 | 3.0 |
| 22 | 165.3 | 1.95 | 3.38 | 0.56 | 0.58 | 5.31 | 31.47 | 2.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM036 55 31.4N 163 57.0W 05 JUL 2340 + 9 92

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 3 | 79.3 | 0.66 | 2.48 | 0.28 | 0.87 | 7.38 | 31.88 | 1.5 |
| 11 | 60.2 | 0.74 | 2.53 | 0.29 | 0.90 | 7.38 | 31.88 | 1.5 |
| 21 | 87.0 | 0.83 | 2.54 | 0.34 | 0.77 | 6.47 | 30.86 | 1.6 |
| 81 | 126.0 | 1.37 | 1.31 | 0.28 | 0.15 | 1.69 | 32.02 | 2.0 |
| 89 | 123.4 | 1.36 | 1.28 | 0.26 | 0.07 | 1.69 | 32.02 | 2.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM037 55 53.1N 164 19.3W 06 JUL 0221 + 9 94

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|------|------|------|------|------|------|-------|-----|
| 4 | 72.2 | 0.29 | 2.34 | 0.17 | 1.02 | 7.26 | 31.22 | 1.3 |
| 12 | 72.4 | 0.30 | 2.22 | 0.15 | 0.97 | 7.22 | 31.21 | 1.3 |
| 21 | 82.7 | 0.49 | 2.18 | 0.26 | 0.70 | 3.19 | 31.56 | 1.4 |
| 80 | 95.5 | 0.90 | 1.06 | 0.38 | 0.23 | 0.08 | 31.92 | 1.4 |
| 89 | 95.5 | 1.07 | 1.06 | 0.38 | 0.21 | 0.11 | 31.90 | 1.5 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM038 56 20.5N 164 41.8W 06 JUL 0555 + 9 89

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 72.2 0.26 2.47 0.14 1.04 6.29 31.10 1.3
12 72.4 0.33 2.43 0.12 1.01 6.29 31.10 1.3
22 87.3 0.65 2.64 0.24 0.86 2.85 31.09 1.4
42 105.5 1.49 1.30 0.53 0.27 -1.12 31.75 1.5
61 105.5 1.49 1.30 0.53 0.27 -1.12 31.74 1.5
85 106.4 1.52 1.35 0.56 0.32 -1.12 31.75 1.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM039 56 43.7N 165 5.8W 06 JUL 1010 + 9 76

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

7 81.0 0.59 2.40 0.19 0.95 6.07 31.27 1.4
12 79.4 0.46 2.41 0.18 0.99 6.04 31.26 1.4
22 105.3 1.10 2.25 0.41 0.52 1.24 30.43 1.6
43 140.9 1.55 1.83 0.68 0.35 -1.32 31.77 2.1
61 137.9 1.47 1.92 0.67 0.29 -1.31 31.77 2.0
73 137.1 1.45 1.85 0.64 0.29 -1.34 31.81 2.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM040 57 5.8N 165 27.0W 29 JUN 0215 + 9 70

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 60.0 0.29 1.91 0.17 0.67 4.34 31.51 1.0
11 58.6 0.20 1.91 0.12 0.65 4.34 31.50 1.0
22 60.2 * * 0.13 0.63 3.66 31.79 1.0
42 137.6 0.92 1.60 0.46 0.22 -1.28 31.82 2.0
66 137.8 * * 0.47 0.23 -1.28 31.81 2.0

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM041 56 43.3N 165 53.9W 28 JUN 2320 + 9 72

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

3 57.9 0.40 2.08 0.22 0.76 5.06 31.27 1.0
12 59.6 0.24 1.75 0.14 0.61 4.45 31.28 0.9
21 69.6 0.92 1.38 0.42 0.15 -1.36 31.77 1.3
43 93.2 0.96 1.45 0.47 0.17 -1.37 31.77 1.3
72 95.8 1.16 1.61 0.55 0.17 -1.37 31.78 1.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM042 56 17.7N 166 37.7W 28 JUN 1915 + 9 114

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 52.9 0.42 1.82 0.17 0.65 6.47 31.65 0.9
12 47.7 0.32 1.61 0.13 0.61 6.44 31.68 0.8
22 74.8 1.04 1.97 0.23 0.37 4.07 32.00 1.3
41 71.4 0.56 1.02 0.15 0.10 2.24 31.99 1.1
106 263.3 0.79 0.79 0.22 * 2.05 32.45 4.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM043 55 54.8N 166 20.0W 08 JUL 0530 + 9 125

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 79.6 0.57 2.71 0.29 1.08 * * *
10 93.3 0.69 2.61 0.32 0.91 * * *
20 176.0 1.85 2.55 0.36 0.15 * * *
40 207.6 0.95 1.47 0.25 * * *
60 242.4 0.95 1.41 0.26 0.10 * * *

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM044 55 28.8N 165 57.0W 28 JUN 1245 + 9 120

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 2 | 148.8 | 1.54 | 2.77 | 0.36 | 0.84 | 5.92 | 32.06 | 2.7 |
| 11 | 137.0 | 0.90 | 2.11 | 0.31 | 0.68 | 5.88 | 32.03 | 2.5 |
| 22 | 209.9 | 1.16 | 2.19 | 0.32 | 0.64 | 4.95 | 32.11 | 3.7 |
| 42 | 269.6 | 1.14 | 1.58 | 0.29 | 0.38 | 3.87 | 32.24 | 4.6 |
| 101 | 440.2 | 0.99 | 1.14 | 0.24 | 0.30 | 3.03 | 32.70 | 7.5 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM045 55 3.2N 165 43.7W 28 JUN 0815 + 9 128

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 2 | 204.6 | 2.08 | 2.49 | 0.72 | * | 5.27 | 32.24 | 3.6 |
| 11 | 181.1 | 1.04 | 2.16 | 0.35 | * | 5.25 | 32.26 | 3.2 |
| 21 | 197.3 | 1.09 | 2.27 | 0.37 | 0.65 | 4.95 | 32.21 | 3.5 |
| 41 | 153.5 | 1.73 | 2.21 | 0.46 | 0.51 | 4.98 | 32.60 | 2.7 |
| 100 | 177.8 | 0.89 | 1.12 | 0.28 | 0.43 | 3.53 | 32.95 | 3.0 |
| 123 | 193.7 | 0.78 | 1.22 | 0.33 | 0.87 | 3.25 | 33.10 | 3.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM046 54 38.4N 165 25.8W 28 JUN 0420 + 9 171

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 3 | 144.0 | * | * | 0.42 | 0.64 | 5.65 | 32.62 | 2.6 |
| 11 | 188.6 | * | * | 0.33 | 0.46 | 4.89 | 32.60 | 3.3 |
| 22 | 225.5 | * | * | 0.32 | 0.45 | 4.97 | 32.61 | 4.0 |
| 60 | 208.2 | 1.13 | 1.92 | 0.30 | 0.33 | 4.77 | 32.72 | 3.7 |
| 156 | 164.4 | 0.61 | 0.90 | 0.19 | 0.18 | 3.71 | 33.01 | 2.8 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM047 54 12.1N 165 7.3W 27 JUN 2310 + 9 97

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 270.3 | 1.16 | 2.01 | 0.59 | 0.50 | 4.72 | 32.45 | 4.9 |
| 11 | 279.4 | 1.26 | 1.80 | 0.50 | 0.33 | 4.72 | 32.46 | 4.9 |
| 21 | 274.3 | 1.35 | 1.77 | 0.48 | 0.32 | 4.72 | 32.48 | 4.8 |
| 61 | 280.6 | 0.94 | 1.72 | 0.36 | 0.31 | 4.70 | 32.47 | 5.1 |
| 89 | 275.1 | 0.93 | 1.75 | 0.35 | 0.34 | 4.68 | 32.50 | 4.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM048 53 37.5N 164 42.8W 27 JUN 1715 + 9 435

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|------|
| 1 | 118.7 | 0.66 | 2.92 | 0.52 | 1.63 | 7.81 | 32.34 | 2.2 |
| 11 | 125.0 | 0.72 | 2.49 | 0.50 | 1.15 | 7.58 | 32.35 | 2.3 |
| 21 | 146.0 | 1.36 | 2.36 | 0.78 | 1.69 | 7.22 | 32.32 | 2.7 |
| 40 | 219.0 | 0.67 | 1.38 | 0.41 | 0.69 | 5.79 | 32.45 | 4.0 |
| 98 | 549.2 | 0.46 | 0.82 | 0.35 | 0.70 | 4.16 | 32.68 | 9.6 |
| 400 | 630.4 | 0.64 | 1.19 | 0.48 | 0.50 | 4.02 | 34.00 | 11.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM049 50 21.8N 167 14.4W 30 JUN 0030 + 9 29

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 152.1 | 0.72 | 2.95 | 0.34 | 1.32 | 2.03 | 31.17 | 2.5 |
| 12 | 145.8 | 0.47 | 2.73 | 0.21 | 1.15 | 2.03 | 31.14 | 2.3 |
| 22 | 151.9 | 0.59 | 2.75 | 0.23 | 1.14 | 2.03 | 31.16 | 2.4 |
| 28 | 142.2 | 0.54 | 2.65 | 0.23 | 0.99 | 2.03 | 31.16 | 2.3 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB037 57 5.6N 167 0.1W 06 JUL 2130 + 9 74

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|----------|-------|-----|
| 2 | 91.4 | 0.63 | 2.48 | 0.25 | 1.08 | 6.01 | 31.26 | 1.6 |
| 11 | 78.9 | 0.43 | 2.25 | 0.18 | 1.06 | 5.76 | 31.81 | 1.4 |
| 21 | 128.0 | 1.31 | 1.65 | 0.55 | 0.35 | 0-.82.00 | 31.42 | 1.9 |
| 41 | 127.3 | 1.37 | 1.62 | 0.56 | 0.38 | -1.19 | 31.79 | 1.9 |
| 61 | 127.1 | 1.39 | 1.63 | 0.56 | 0.36 | -1.20 | 31.78 | 1.9 |
| 70 | 129.7 | 1.33 | 1.66 | 0.57 | 0.35 | -1.20 | 31.78 | 1.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB046 57 36.2N 168 4.0W 07 JUL 0205 + 9 72

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|----------|-------|-----|
| 2 | 82.2 | 0.39 | 2.22 | 0.20 | 1.08 | 5.48 | 31.32 | 1.4 |
| 11 | 75.6 | 0.39 | 2.07 | 0.15 | 0.79 | 5.47 | 31.30 | 1.3 |
| 21 | 118.6 | 1.08 | 1.46 | 0.39 | 0.27 | 0-.94.00 | 31.50 | 1.7 |
| 40 | 119.6 | 1.16 | 1.45 | 0.39 | 0.27 | -1.23 | 31.78 | 1.7 |
| 69 | 117.0 | 1.12 | 1.47 | 0.39 | 0.26 | -1.25 | 31.79 | 1.7 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
EB048 56 18.7N 169 42.2W 07 JUL 1740 + 9 153

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|-----|-------|------|------|------|------|------|-------|-----|
| 2 | 77.9 | 0.57 | 2.17 | 0.22 | 0.74 | 6.75 | 31.91 | 1.4 |
| 11 | 76.2 | 0.65 | 2.08 | 0.21 | 0.70 | 6.69 | 31.93 | 1.4 |
| 22 | 89.2 | 0.89 | 2.23 | 0.29 | 0.54 | 4.88 | 32.00 | 1.5 |
| 51 | 331.9 | 1.22 | 1.33 | 0.31 | 0.19 | 2.31 | 32.31 | 5.5 |
| 101 | 441.5 | 1.17 | 1.35 | 0.29 | 0.21 | 3.06 | 32.80 | 7.5 |
| 126 | 305.1 | 1.11 | 1.15 | 0.26 | 0.16 | 3.15 | 32.78 | 5.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS003 | 57 3.8N | 152 36.1W | 25 JUN | 2100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 117.0 | 1.17 | 2.68 | 2.19 | 1.60 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS004 | 56 56.1N | 152 49.8W | 25 JUN | 2200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 405.2 | 1.77 | 3.39 | 1.07 | 1.94 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS005 | 56 48.4N | 153 4.7W | 25 JUN | 2300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 156.2 | 1.02 | 1.84 | 0.54 | 1.11 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS006 | 56 41.4N | 153 18.1W | 26 JUN | 0000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 409.2 | 2.01 | 2.86 | 0.95 | 1.35 | 8.71 | 32.38 | 8.0 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS007 | 56 26.8N | 153 45.8W | 26 JUN | 0200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 378.5 | 1.78 | 3.35 | 1.10 | 1.64 | 9.03 | 32.16 | 7.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS008 | 56 18.8N | 154 0.7W | 26 JUN | 0300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 512.9 | 1.31 | 2.76 | 0.89 | 1.27 | 8.45 | 32.28 | 10.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS009 | 56 13.0N | 154 12.7W | 26 JUN | 0400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 218.7 | 1.75 | 2.95 | 0.80 | 1.40 | 9.15 | 32.30 | 4.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS010 | 56 4.7N | 154 29.6W | 26 JUN | 0500 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 250.1 | 1.50 | 2.60 | 0.76 | 1.24 | 8.81 | 32.32 | 4.9 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS014 | 55 34.2N | 155 51.8W | 26 JUN | 1000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 244.9 | 1.41 | 3.05 | 1.02 | 1.59 | 8.95 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS015 | 55 29.8N | 156 9.7W | 26 JUN | 1100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 478.1 | 1.09 | 3.09 | 0.77 | 1.57 | 9.25 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS016 | 55 24.1N | 156 33.8W | 26 JUN | 1210 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 265.0 | 1.14 | 3.35 | 0.74 | 1.65 | 9.28 | 32.47 | 5.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS018 | 55 16.9N | 157 4.0W | 26 JUN | 1400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 377.2 | 1.45 | 3.16 | 0.83 | 1.27 | 7.95 | 32.42 | 7.3 |

CRUISE NUMBER
RP-4-MW-76-V111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS021 | 55 7.7N | 157 38.0W | 26 JUN | 1600 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 254.4 | 1.64 | 4.04 | 0.83 | 1.89 | 8.85 | 32.34 | 5.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS022 | 55 1.9N | 157 57.7W | 26 JUN | 1710 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 184.3 | 1.30 | 3.91 | 0.84 | 1.83 | 9.10 | 32.46 | 3.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS025 | 54 46.8N | 158 43.3W | 26 JUN | 2000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 130.8 | 1.40 | 4.19 | 0.70 | 1.48 | 8.55 | 32.21 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS026 | 54 44.0N | 159 1.3W | 26 JUN | 2100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 175.6 | 2.49 | 3.56 | 0.91 | 1.42 | 8.55 | 32.18 | 3.4 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PS027 54 40.8N 159 19.3W 26 JUN 2200 + 9 0

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 156.6 1.95 4.35 0.83 1.59 9.10 32.31 3.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PS028 54 37.6N 159 37.0W 26 JUN 2300 + 9 0

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 139.5 1.18 4.29 0.67 1.50 8.75 32.28 2.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PS029 54 33.5N 159 58.1W 27 JUN 0000 + 9 0

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 143.3 1.04 3.84 0.65 1.59 8.90 32.30 2.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PS030 54 30.7N 160 14.1W 27 JUN 0200 + 9 0

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 139.2 0.88 3.48 0.60 1.43 8.30 32.26 2.7

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS033 | 54 20.4N | 161 7.0W | 27 JUN | 0400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 164.2 | 1.21 | 3.45 | 0.62 | 1.21 | 8.34 | 32.36 | 3.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS034 | 54 9.4N | 162 3.4W | 27 JUN | 0700 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 147.6 | 1.71 | 3.56 | 1.03 | 1.27 | 7.68 | 32.26 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS036 | 54 6.2N | 162 21.7W | 27 JUN | 0800 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 140.7 | 1.43 | 3.62 | 0.70 | 1.29 | 7.60 | 32.20 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS040 | 53 59.6N | 162 58.0W | 27 JUN | 1000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 150.0 | 1.31 | 3.30 | 0.66 | 1.25 | 7.65 | 32.30 | 2.8 |

CRUISE NUMBER
RP-4-MW-76-V111

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS041 | 53 56.2N | 163 16.1W | 27 JUN | 1100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 146.7 | 1.11 | 2.94 | 0.67 | 1.31 | 7.81 | 32.35 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS042 | 53 52.7N | 163 35.5W | 27 JUN | 1200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 150.4 | 1.08 | 2.91 | 0.64 | 1.22 | 7.80 | 32.36 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS043 | 53 49.3N | 163 54.2W | 27 JUN | 1300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 146.2 | 1.09 | 2.87 | 0.64 | 1.18 | 7.95 | 32.37 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS084 | 60 4.3N | 167 48.9W | 30 JUN | 1100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 149.5 | 1.14 | 2.46 | 0.45 | 1.24 | 2.45 | 32.12 | 2.5 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS087 | 59 48.0N | 167 43.8W | 30 JUN | 1300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 188.9 | 0.86 | 2.62 | 0.40 | 1.28 | 4.65 | 32.05 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS091 | 59 36.6N | 167 6.8W | 30 JUN | 1500 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 148.3 | 0.88 | 2.96 | 0.42 | 1.34 | 3.10 | 32.27 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PS101 | 58 24.7N | 164 42.7W | 01 JUL | 1100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 128.8 | 1.03 | 3.71 | 0.47 | 1.52 | 3.36 | 31.31 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS112 | 58 43.9N | 163 44.2W | 1 JUL | 2200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 143.1 | 1.13 | 4.26 | 0.64 | 1.79 | 5.11 | 31.89 | 2.5 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS113 | 58 38.2N | 162 24.7W | 1 JUL | 2300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 246.0 | 1.16 | 3.98 | 0.65 | 1.75 | 4.26 | 31.85 | 4.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS142 | 57 56.7N | 158 44.8W | 3 JUL | 2000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 151.6 | 1.81 | 4.11 | 0.57 | 1.76 | 8.00 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS143 | 57 56.0N | 158 24.3W | 3 JUL | 2135 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 156.6 | 1.81 | 4.13 | 0.61 | 1.72 | * | 30.24 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS147 | 56 26.5N | 158 25.8W | 4 JUL | 0945 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 226.0 | 1.91 | 4.14 | 0.78 | 2.17 | 3.13 | 31.34 | 3.8 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS156 | 56 55.1N | 159 45.9W | 4 JUL | 1730 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 188.1 | 2.27 | 4.43 | 0.68 | 1.52 | 3.50 | 31.24 | 3.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS157 | 56 50.6N | 159 46.1W | 4 JUL | 1800 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 158.9 | 1.65 | 4.64 | 0.61 | 0.34 | 3.58 | 31.31 | 2.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS160 | 56 36.2N | 159 55.0W | 4 JUL | 2030 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 393.4 | 1.39 | 5.90 | 0.74 | 2.43 | 7.42 | 30.32 | 7.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS161 | 56 34.3N | 160 0.1W | 4 JUL | 2100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 239.5 | 1.43 | 5.51 | 0.69 | 2.06 | 5.72 | 30.85 | 4.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS152 | 56 32.4N | 160 5.0W | 4 JUL | 2130 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 181.6 | 1.56 | 5.07 | 0.64 | 1.90 | 6.00 | 31.03 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS153 | 56 30.2N | 160 10.2W | 4 JUL | 2200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 236.5 | 1.39 | 5.42 | 0.68 | 2.33 | 7.51 | 30.66 | 4.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS164 | 56 28.2N | 160 15.3W | 4 JUL | 2230 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 503.8 | 1.54 | 4.22 | 0.82 | 1.99 | 5.65 | 30.70 | 5.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS165 | 56 26.0N | 160 22.2W | 4 JUL | 2300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 160.0 | 1.64 | 6.37 | 1.05 | 2.15 | 6.76 | 30.94 | 3.1 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS166 | 56 23.3N | 160 27.9W | 4 JUL | 2330 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 157.0 | 1.41 | 5.05 | 0.74 | 2.50 | 6.00 | 31.10 | 2.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS167 | 56 17.2N | 160 32.1W | 5 JUL | 0000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 163.0 | 1.26 | 5.49 | 0.56 | 2.13 | 7.07 | 31.12 | 3.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS168 | 56 12.8N | 160 34.8W | 5 JUL | 0030 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 264.6 | 1.48 | 5.07 | 0.71 | 1.89 | 6.68 | 30.94 | 4.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS169 | 56 9.0N | 160 37.4W | 5 JUL | 0100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 1114.0 | 1.52 | 4.35 | 0.86 | 1.96 | 7.06 | 30.33 | 20.7 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS170 | 56 7.5N | 160 38.4W | 5 JUL | 0200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 1359.2 | 1.20 | 4.20 | 0.85 | 1.93 | 7.70 | 30.08 | 25.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS172 | 56 23.2N | 161 38.6W | 5 JUL | 0600 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 115.9 | 0.89 | 3.95 | 0.39 | 1.61 | 7.11 | 31.22 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS173 | 56 19.9N | 161 55.5W | 5 JUL | 0700 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 113.3 | 0.91 | 3.72 | 0.38 | 1.56 | 7.30 | 31.14 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS174 | 56 15.4N | 162 12.5W | 5 JUL | 0800 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 113.6 | 0.85 | 3.38 | 0.32 | 1.48 | 7.16 | 31.17 | 2.1 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS177 | 55 42.4N | 162 22.3W | 5 JUL | 1400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 256.0 | 1.98 | 4.57 | 0.72 | 1.60 | 7.88 | 31.79 | 4.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS178 | 55 39.5N | 162 28.8W | 5 JUL | 1430 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 151.7 | 1.65 | 4.09 | 0.62 | 1.51 | 7.74 | 32.10 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS179 | 55 36.7N | 162 36.2W | 5 JUL | 1500 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 128.9 | 1.30 | 4.34 | 0.64 | 1.88 | * | 32.27 | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS180 | 55 35.7N | 162 43.6W | 5 JUL | 1530 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 222.2 | 1.79 | 3.72 | 0.68 | 1.16 | 7.75 | 32.39 | 4.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS181 | 55 35.7N | 162 52.6W | 5 JUL | 1600 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 294.0 | 1.75 | 3.32 | 0.61 | 0.94 | 6.82 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS182 | 55 35.7N | 163 1.2W | 5 JUL | 1630 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 254.8 | 1.30 | 3.04 | 0.51 | 1.26 | 7.83 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS183 | 55 34.5N | 163 10.2W | 5 JUL | 1700 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 243.9 | 1.26 | 3.06 | 0.51 | 1.37 | 8.12 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS184 | 55 31.8N | 163 17.7W | 5 JUL | 1730 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 234.5 | 1.59 | 3.28 | 0.58 | 1.23 | 7.64 | * | * |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS185 | 55 28.0N | 163 23.5W | 5 JUL | 1800 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 147.7 | 1.47 | 3.41 | 0.54 | 1.15 | 7.24 | 31.78 | 2.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS186 | 55 24.0N | 163 27.5W | 5 JUL | 1830 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 253.7 | 1.66 | 3.45 | 0.57 | 1.31 | 7.38 | 31.82 | 4.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS187 | 55 19.1N | 163 29.9W | 5 JUL | 1900 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 181.8 | 1.65 | 3.25 | 0.58 | 1.21 | 7.03 | 31.80 | 3.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS202 | 57 28.4N | 168 39.3W | 7 JUL | 0435 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 123.0 | 0.81 | 1.99 | 0.30 | 1.06 | 6.05 | 31.26 | 2.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS203 | 57 26.5N | 168 47.9W | 7 JUL | 0505 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 121.4 | 0.73 | 1.95 | 0.28 | 1.02 | 6.10 | 31.24 | 2.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS204 | 57 24.0N | 168 57.2W | 7 JUL | 0535 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 114.4 | 0.69 | 1.87 | 0.26 | 0.91 | 6.15 | 31.26 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS205 | 57 21.8N | 169 6.0W | 7 JUL | 0605 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 112.6 | 0.61 | 1.79 | 0.25 | 0.97 | 6.20 | 31.23 | 2.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS206 | 57 19.3N | 169 15.0W | 7 JUL | 0635 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 116.3 | 0.60 | 1.74 | 0.27 | 0.97 | 6.25 | 31.23 | 2.1 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS207 | 57 16.5N | 169 24.2W | 7 JUL | 0700 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 115.1 | 0.65 | 1.73 | 0.27 | 0.97 | 6.10 | 31.28 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS208 | 57 11.0N | 169 42.2W | 7 JUL | 0800 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 155.0 | 1.26 | 2.48 | 0.49 | 1.01 | 3.38 | 31.62 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS209 | 57 6.6N | 170 14.1W | 7 JUL | 0805 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 546.2 | 1.17 | 2.84 | 0.47 | 1.09 | 3.60 | 31.62 | 9.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS211 | 57 5.1N | 170 14.7W | 7 JUL | 0835 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 475.9 | 1.27 | 2.85 | 0.47 | 1.09 | 3.78 | 31.62 | 8.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS213 | 57 2.6N | 170 21.3W | 7 JUL | 1100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 274.8 | 1.17 | 3.09 | 0.51 | 1.20 | 4.55 | 31.60 | 4.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS214 | 56 52.6N | 170 23.5W | 7 JUL | 1205 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 141.7 | 0.83 | 2.20 | 0.37 | 1.07 | 6.30 | 31.66 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS215 | 56 41.0N | 170 24.2W | 7 JUL | 1305 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 134.2 | 0.87 | 2.22 | 0.39 | 1.06 | 6.23 | 31.67 | 2.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS217 | 56 37.8N | 170 13.4W | 7 JUL | 1400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 123.1 | 0.83 | 2.50 | 0.39 | 1.07 | 6.65 | 31.67 | 2.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS218 | 56 36.8N | 169 51.1W | 7 JUL | 1500 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 178.9 | 1.13 | 2.49 | 0.50 | 0.99 | 5.14 | 31.64 | 3.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS219 | 56 30.4N | 169 39.6W | 7 JUL | 1600 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 178.9 | 1.13 | 2.49 | 0.50 | 0.99 | 3.62 | 31.61 | 3.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS221 | 56 24.3N | 169 38.5W | 7 JUL | 1700 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 116.3 | 0.88 | 2.01 | 0.36 | 0.99 | 6.85 | 31.62 | 2.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS225 | 56 16.1N | 169 30.6W | 7 JUL | 1900 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 117.8 | 0.89 | 2.61 | 0.35 | 1.05 | 7.10 | 32.00 | 2.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS227 | 56 14.1N | 169 12.4W | 7 JUL | 2000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 128.6 | 1.07 | 3.58 | 0.40 | 0.99 | 7.60 | 32.46 | 2.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS229 | 56 12.8N | 168 52.0W | 7 JUL | 2100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 121.5 | 1.18 | 3.54 | 0.41 | 1.15 | 7.20 | 32.14 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS230 | 56 12.2N | 168 33.5W | 7 JUL | 2200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 124.9 | 1.37 | 3.04 | 0.43 | 1.00 | 7.25 | 32.15 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS232 | 56 9.5N | 168 0.7W | 8 JUL | 0000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 115.3 | 1.15 | 2.65 | 0.37 | 1.17 | 7.84 | 32.52 | 2.2 |

CRUISE NUMBER
RP-4-MW-76-VIII

LOCATION
SOUTHEAST BERING SEA

INCLUSIVE DATES
25 JUN-08 JUL 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS233 | 56 7.0N | 167 41.1W | 8 JUL | 0100 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 118.2 | 1.00 | 2.87 | 0.42 | 1.19 | 7.73 | 32.00 | 2.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS234 | 56 4.5N | 167 21.1W | 8 JUL | 0200 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 120.0 | 0.95 | 2.70 | 0.42 | 1.17 | 7.80 | 32.18 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS235 | 56 1.7N | 167 1.1W | 8 JUL | 0300 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 119.8 | 0.86 | 2.65 | 0.39 | 1.28 | 8.05 | 31.93 | 2.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|-------|------|-----|--------------|
| PS236 | 55 58.9N | 166 42.2W | 8 JUL | 0400 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 116.8 | 0.76 | 2.41 | 0.36 | 1.20 | 8.14 | 31.69 | 2.2 |

APPENDIX F

Norton Sound

| | | |
|-----|----------------|------------------------|
| F.1 | RP-4-DI-76B-IV | 08 Sep. - 24 Sep. 1976 |
| F.2 | RP-4-DI-79A-VI | 02 Jul. - 18 Jul. 1979 |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N001 | 63 31.4N | 168 28.9W | 13 SEP | 2110 | +10 | 29 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 149.9 | 1.26 | 2.58 | 0.47 | 0.40 | 3.08 | 31.94 | 2.5 |
| 10 | 156.5 | 1.17 | 2.48 | 0.47 | 0.39 | 2.92 | 31.94 | 2.6 |
| 25 | 158.5 | 1.17 | 2.50 | 0.47 | 0.37 | 2.90 | 31.95 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N002 | 63 30.6N | 167 29.0W | 13 SEP | 1815 | +10 | 29 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 96.0 | 0.40 | 1.16 | 0.17 | 0.39 | 7.50 | 31.63 | 1.8 |
| 10 | 114.8 | 0.50 | 1.11 | 0.22 | 0.24 | 7.09 | 31.60 | 2.1 |
| 24 | 383.9 | 1.32 | 3.52 | 0.57 | 0.29 | 2.28 | 32.05 | 6.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N003 | 63 29.7N | 166 29.8W | 13 SEP | 1545 | +10 | 27 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 99.7 | 0.28 | 1.21 | 0.14 | 0.37 | 7.79 | 31.13 | 1.9 |
| 11 | 103.1 | 0.24 | 0.89 | 0.10 | 0.17 | 7.54 | 31.20 | 1.9 |
| 22 | 252.0 | 0.48 | 2.12 | 0.30 | 0.33 | 5.30 | 31.34 | 4.5 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N004 | 63 19.7N | 165 29.9W | 13 SEP | 1200 | +10 | 21 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 135.6 | 0.27 | 1.04 | 0.14 | 0.39 | 9.07 | 30.15 | 2.6 |
| 11 | 178.7 | 0.23 | 0.95 | 0.13 | 0.30 | 8.97 | 30.25 | 3.4 |
| 20 | 205.9 | 0.26 | 0.97 | 0.14 | 0.34 | 8.95 | 30.35 | 4.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N005 | 63 39.5N | 165 32.1W | 13 SEP | 1000 | +10 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 194.2 | 0.42 | 1.20 | 0.16 | 0.40 | 8.92 | 30.53 | 3.8 |
| 11 | 182.5 | 0.23 | 0.99 | 0.15 | 0.39 | 8.73 | 30.67 | 3.5 |
| 20 | 218.9 | 0.24 | 1.01 | 0.17 | 0.43 | 8.35 | 30.87 | 4.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N006 | 63 38.4N | 164 31.0W | 12 SEP | 1625 | +10 | 13 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 278.6 | 0.58 | 1.12 | 0.12 | 0.47 | 9.32 | 25.73 | 5.3 |
| 9 | 417.6 | 0.33 | 0.89 | 0.14 | 0.38 | 9.16 | 29.16 | 8.1 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N007 | 63 38.2N | 163 30.3W | 12 SEP | 1310 | +10 | 15 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 212.1 | 0.75 | 1.16 | 0.08 | 0.38 | 9.31 | 24.32 | 4.0 |
| 11 | 578.7 | 0.63 | 1.28 | 0.16 | 0.33 | 9.44 | 28.64 | 11.3 |
| 12 | 606.2 | 0.31 | 0.96 | 0.13 | 0.33 | 9.39 | 28.99 | 11.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N008 | 63 42.2N | 162 28.5W | 12 SEP | 0100 | +10 | 16 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 359.8 | 0.45 | 0.71 | 0.10 | 0.30 | 9.55 | 21.90 | 6.7 |
| 12 | 589.3 | 1.12 | 0.91 | 0.31 | 0.37 | 9.13 | 24.83 | 11.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N009 | 63 41.5N | 161 31.1W | 11 SEP | 2210 | +10 | 15 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 491.0 | 0.28 | 0.60 | 0.11 | 0.51 | 9.27 | 21.50 | 9.1 |
| 12 | 1960.0 | 0.83 | 0.89 | 0.34 | 0.35 | 5.18 | 26.83 | 34.0 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N010 | 64 1.0N | 168 28.8W | 13 SEP | 2350 | +10 | 38 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 85.9 | 0.15 | 1.23 | 0.26 | * | 7.17 | 31.69 | 1.6 |
| 11 | 100.0 | 0.17 | 1.36 | 0.31 | * | 7.17 | 31.68 | 1.8 |
| 21 | 115.7 | 0.43 | 1.58 | 0.39 | * | 6.38 | 31.70 | 2.1 |
| 34 | 198.3 | 0.85 | 2.44 | 0.61 | * | 3.20 | 32.14 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N011 | 64 0.8N | 167 31.7W | 14 SEP | 0145 | +10 | 34 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 96.8 | 0.14 | 1.07 | 0.22 | * | 6.39 | 31.69 | 1.7 |
| 11 | 100.5 | 0.14 | 1.13 | 0.21 | * | 6.38 | 31.69 | 1.8 |
| 21 | 261.2 | 1.02 | 2.80 | 0.62 | * | 4.25 | 31.45 | 4.5 |
| 30 | 259.4 | 0.82 | 2.57 | 0.62 | * | 3.52 | 32.00 | 4.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N012 | 63 59.2N | 166 29.8W | 14 SEP | 0430 | +10 | 31 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 126.5 | 0.15 | 0.96 | 0.13 | * | 7.23 | 31.50 | 2.3 |
| 10 | 146.5 | 0.16 | 1.13 | 0.17 | * | 6.97 | 31.55 | 2.7 |
| 20 | 490.9 | 0.84 | 3.07 | 0.45 | * | 3.89 | 31.29 | 8.4 |
| 27 | 522.6 | 0.98 | 3.11 | 0.51 | * | 3.15 | 31.82 | 8.8 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N12A 64 7.8N 165 58.0W 14 SEP 0620 +10 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

13 155.4 0.10 1.04 0.14 * 7.71 31.12 2.9
19 294.5 0.32 1.50 0.23 * 6.97 31.23 5.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N12B1 64 17.8N 166 0.0W 14 SEP 0720 +10 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

14 167.6 0.11 1.13 0.14 * 7.60 31.28 3.1
19 168.9 0.37 1.34 0.16 0.41 7.53 31.29 3.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N12B2 64 17.6N 166 1.0W 14 SEP 1215 +10 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

14 173.0 0.37 1.32 0.16 0.42 7.43 31.30 3.2
20 175.6 0.39 1.38 0.16 0.43 7.41 31.32 3.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N12C 64 28.6N 166 1.0W 14 SEP 0830 +10 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

21 504.2 3.44 2.31 1.16 0.56 7.04 30.43 9.4
26 433.6 3.10 2.16 1.02 0.53 7.56 30.82 8.2

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N12D | 64 23.5N | 165 45.3W | 14 SEP | 0955 | +10 | 26 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 16 | 159.2 | 0.63 | 1.40 | 0.23 | 0.52 | 8.07 | 31.24 | 3.0 |
| 21 | 157.7 | 0.54 | 1.69 | 0.22 | 1.23 | 8.07 | 31.24 | 3.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N12E | 64 11.9N | 165 40.5W | 14 SEP | 1130 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 11 | 173.0 | 0.56 | 1.45 | 0.19 | 0.48 | 7.92 | 31.10 | 3.3 |
| 17 | 178.1 | 0.46 | 1.35 | 0.18 | 0.48 | 7.90 | 31.11 | 3.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N12F | 64 23.8N | 166 14.5W | 14 SEP | 1300 | +10 | 29 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 21 | 154.4 | 0.11 | 1.21 | 0.18 | 0.51 | 7.75 | 31.20 | 2.9 |
| 25 | 156.9 | 0.70 | 1.89 | 0.17 | 0.47 | 7.75 | 31.20 | 2.9 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N013 | 63 59.7N | 165 29.7W | 13 SEP | 0735 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 177.9 | 0.29 | 1.03 | 0.17 | 0.39 | 8.06 | 31.08 | 3.4 |
| 11 | 182.9 | 0.24 | 1.03 | 0.24 | 0.19 | 8.00 | 31.07 | 3.5 |
| 17 | 191.8 | 0.28 | 1.05 | 0.18 | 0.37 | 7.95 | 31.08 | 3.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N014 | 64 1.2N | 164 28.7W | 12 SEP | 1910 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 446.7 | 0.42 | 1.29 | 0.19 | 0.47 | 8.92 | 28.78 | 8.6 |
| 11 | 361.1 | 0.36 | 1.17 | 0.17 | 0.41 | 8.73 | 29.82 | 7.0 |
| 16 | 391.2 | 0.46 | 1.40 | 0.21 | 0.53 | 8.52 | 30.47 | 7.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N015 | 64 0.3N | 163 31.0W | 12 SEP | 1105 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 228.1 | 0.71 | 1.36 | 0.15 | 0.52 | 8.79 | 27.18 | 4.3 |
| 10 | 406.7 | 0.62 | 1.66 | 0.21 | 0.39 | 8.10 | 27.53 | 7.6 |
| 17 | 648.7 | 0.79 | 2.08 | 0.32 | 0.30 | 3.98 | 29.83 | 11.1 |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TA | 64 0.3N | 163 31.0W | 23 SEP | 0915 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 115.4 | 0.39 | 0.61 | 0.08 | * | 9.00 | 22.95 | 2.1 |
| 10 | 209.8 | 0.26 | 0.90 | 0.12 | 0.35 | 9.29 | 25.98 | 4.0 |
| 17 | 360.2 | 0.28 | 1.11 | 0.20 | 0.31 | 6.75 | 28.96 | 6.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TB | 64 0.3N | 163 31.0W | 23 SEP | 1100 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 123.2 | 0.53 | 1.87 | 0.34 | T | 9.05 | 22.96 | 2.2 |
| 11 | 243.0 | 0.25 | 1.00 | 0.13 | 0.44 | 9.35 | 26.23 | 4.6 |
| 18 | 354.1 | 0.29 | 1.10 | 0.20 | 0.36 | 6.73 | 28.97 | 6.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TC | 64 0.3N | 163 31.0W | 23 SEP | 1300 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 115.8 | 0.21 | 0.66 | 0.10 | 0.35 | 9.19 | 22.24 | 2.1 |
| 11 | 207.2 | 0.26 | 0.86 | 0.11 | 0.35 | 9.11 | 26.69 | 3.9 |
| 18 | 363.1 | 0.32 | 1.10 | 0.21 | 0.27 | 6.69 | 28.97 | 6.6 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TD 64 0.3N 163 31.0W 23 SEP 1500 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 108.4 0.48 1.22 0.10 0.52 9.35 21.59 2.0
11 343.6 0.48 1.42 0.12 0.43 9.25 27.47 6.6
18 377.2 0.56 1.69 0.21 0.36 6.65 29.00 6.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TE 64 0.3N 163 31.0W 23 SEP 1715 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 107.5 0.38 0.76 0.09 0.46 9.30 21.82 2.0
9 203.3 0.22 0.96 0.12 0.37 8.96 26.14 3.8
16 418.2 0.28 1.10 0.20 0.31 6.56 29.03 7.6

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TF 64 0.3N 163 31.0W 23 SEP 1910 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 104.4 0.38 0.72 0.09 0.38 9.32 21.54 1.9
11 206.2 0.25 1.02 0.12 0.41 9.12 27.40 3.9
14 424.2 0.61 1.62 0.20 0.26 6.53 29.08 7.7

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TG | 64 0.3N | 163 31.0W | 23 SEP | 2110 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 111.2 | 0.27 | 0.67 | 0.07 | 0.36 | 9.17 | 22.36 | 2.0 |
| 10 | 214.7 | 0.25 | 0.89 | 0.11 | 0.45 | 9.12 | 26.34 | 4.1 |
| 17 | 439.2 | 0.68 | 2.05 | 0.21 | 0.42 | 6.52 | 29.08 | 8.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TH | 64 0.3N | 163 31.0W | 23 SEP | 2300 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 105.8 | 0.37 | 0.68 | 0.09 | 0.35 | 9.29 | 21.73 | 1.9 |
| 12 | 307.9 | 0.26 | 1.04 | 0.15 | 0.31 | 8.97 | 26.83 | 5.8 |
| 18 | 428.9 | 0.34 | 1.18 | 0.23 | 0.36 | 6.53 | 29.08 | 7.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N15TI | 64 0.3N | 163 31.0W | 24 SEP | 0100 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 116.4 | 0.28 | 0.69 | 0.07 | 0.38 | 9.22 | 22.16 | 2.1 |
| 11 | 245.7 | 0.24 | 0.99 | 0.12 | 0.38 | 9.12 | 26.62 | 4.7 |
| 18 | 423.8 | 0.32 | 1.20 | 0.22 | 0.34 | 6.50 | 29.09 | 7.7 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TJ 64 0.3N 163 31.0W 24 SEP 0300 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 104.7 | 0.30 | 0.71 | 0.08 | 0.30 | 9.27 | 21.75 | 1.9 |
| 11 | 232.6 | 0.18 | 0.97 | 0.11 | 0.38 | 8.95 | 27.30 | 4.4 |
| 18 | 441.9 | 0.32 | 1.29 | 0.23 | 0.28 | 6.47 | 29.11 | 8.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TK 64 0.3N 163 31.0W 24 SEP 0500 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 106.2 | T | 0.62 | 0.09 | 0.28 | 9.15 | 22.16 | 1.9 |
| 11 | 237.4 | 0.23 | 0.93 | 0.13 | 0.32 | 9.29 | 26.67 | 4.5 |
| 17 | 435.4 | 0.65 | 1.89 | 0.23 | 0.32 | 6.56 | 29.12 | 7.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TL 64 0.3N 163 31.0W 24 SEP 0700 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 1 | 699.9 | 0.22 | 0.67 | 0.14 | 0.39 | 9.12 | 22.21 | 13.0 |
| 11 | 226.5 | 0.40 | 1.29 | 0.13 | 0.31 | 9.25 | 25.80 | 4.3 |
| 15 | 440.3 | 0.51 | 1.79 | 0.23 | 0.39 | 6.59 | 29.12 | 8.0 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N15TM 64 0.3N 163 31.0W 24 SEP 0910 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 109.7 0.30 0.68 0.09 0.38 9.11 22.41 2.0
11 205.3 0.14 0.95 0.12 0.40 8.48 27.72 3.8
17 443.8 0.46 1.82 0.22 0.37 6.63 29.10 8.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N016 64 0.0N 162 30.0W 12 SEP 0320 +10 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 187.7 1.21 1.00 0.23 0.36 8.42 25.83 3.5
10 438.6 0.68 1.32 0.24 0.31 8.18 25.85 8.1
15 647.7 0.40 0.81 0.35 * 3.11 29.01 10.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N017 64 0.2N 161 30.2W 11 SEP 1925 +10 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

0 405.6 0.32 0.64 0.20 0.42 9.69 21.43 7.6
13 323.7 0.26 0.24 0.35 0.12 1.64 29.52 5.2

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N1018 64 20.2N 165 30.9W 10 SEP 2135 +10 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 168.7 0.63 1.11 0.11 0.35 9.57 22.47 3.1
10 645.9 4.25 2.75 1.25 0.54 7.76 29.18 12.1
19 433.8 3.41 2.78 1.02 0.52 7.46 31.04 8.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N2018 64 20.2N 165 30.0W 12 SEP 2240 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

16 582.3 4.58 2.44 1.27 0.55 7.93 30.23 11.0
21 596.5 4.42 1.99 1.33 0.50 7.45 30.48 11.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018A 64 19.9N 165 17.4W 12 SEP 2335 +10 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

18 713.9 4.07 3.02 1.26 0.52 6.64 30.22 13.1
23 715.5 3.97 2.90 1.23 0.46 6.60 30.25 13.1

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018B | 64 25.1N | 165 28.5W | 13 SEP | 0020 | +10 | 27 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 15 | 634.3 | 1.96 | 2.38 | 0.66 | 0.53 | 7.47 | 28.76 | 11.8 |
| 23 | 672.9 | 2.38 | 3.02 | 0.79 | 0.52 | 6.58 | 29.29 | 12.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018C | 64 20.3N | 165 42.2W | 13 SEP | 0115 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 17 | 337.1 | 4.51 | 1.42 | 1.55 | 0.55 | 8.23 | 31.16 | 6.5 |
| 21 | 352.5 | 4.71 | 1.36 | 1.62 | 0.52 | 8.25 | 31.18 | 6.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018D | 64 15.2N | 165 30.9W | 13 SEP | 0225 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 12 | 246.0 | 2.49 | 1.23 | 0.95 | 0.44 | 8.24 | 31.10 | 4.7 |
| 18 | 218.5 | 2.02 | 1.36 | 0.78 | 0.51 | 8.24 | 31.13 | 4.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018E | 64 22.0N | 165 1.2W | 13 SEP | 0410 | +10 | 33 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 25 | 445.5 | 1.72 | 2.46 | 0.54 | 0.52 | 8.25 | 29.95 | 8.5 |
| 30 | 498.4 | 1.91 | 2.46 | 0.65 | 0.53 | 7.74 | 30.18 | 9.4 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N18F1 | 64 8.0N | 165 30.5W | 13 SEP | 0605 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 155.9 | 0.33 | 1.09 | 0.18 | 0.36 | 8.11 | 31.10 | 3.0 |
| 11 | 363.4 | 5.69 | 1.25 | 1.92 | 0.36 | 8.11 | 31.10 | 7.0 |
| 17 | 459.2 | 8.34 | 1.28 | 2.86 | 0.37 | 8.00 | 31.13 | 8.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N18F2 | 64 8.0N | 165 30.5W | 23 SEP | 0045 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 12 | 319.2 | 3.57 | 1.20 | 1.16 | 0.46 | 8.25 | 30.91 | 6.1 |
| 17 | 340.9 | 4.20 | 1.27 | 1.45 | 0.46 | 8.27 | 30.91 | 6.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018G | 64 13.1N | 165 29.3W | 23 SEP | 0135 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 12 | 386.8 | 5.31 | 1.14 | 1.83 | 0.44 | 8.17 | 30.97 | 7.4 |
| 18 | 390.5 | 5.37 | 1.16 | 1.85 | 0.45 | 8.19 | 30.96 | 7.5 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018H 64 7.5N 165 41.7W 23 SEP 0230 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

13 139.6 0.51 1.30 0.15 0.54 8.25 30.90 2.6
19 147.0 0.46 1.31 0.16 0.44 8.25 30.90 2.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018I 64 2.8N 165 30.2W 23 SEP 0320 +10 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

12 174.4 0.41 1.12 0.16 0.38 8.38 30.88 3.3
18 176.7 0.42 1.19 0.19 0.61 8.38 30.88 3.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018J 64 7.5N 165 18.7W 23 SEP 0415 +10 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

12 258.2 1.72 1.20 0.47 0.25 8.48 30.75 5.0
17 267.2 1.86 1.24 0.49 0.30 8.48 30.76 5.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018K 64 13.3N 165 21.3W 23 SEP 0520 +10 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

12 232.4 2.28 1.14 0.77 0.36 8.38 30.96 4.5
17 230.4 2.32 1.33 0.76 0.41 8.38 30.96 4.4

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N019 | 64 19.4N | 164 30.4W | 11 SEP | 0015 | +10 | 16 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 527.1 | 0.44 | 1.14 | 0.29 | 0.05 | 9.00 | 25.26 | 9.9 |
| 12 | 512.6 | 0.56 | 1.23 | 0.32 | 0.37 | 5.36 | 28.62 | 9.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N020 | 64 20.1N | 163 31.0W | 11 SEP | 0745 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 0 | 97.3 | 0.19 | 0.67 | 0.08 | 0.30 | 10.41 | 20.43 | 1.8 |
| 10 | 103.7 | 0.20 | 0.65 | 0.08 | 0.34 | 10.35 | 20.62 | 1.9 |
| 16 | 375.4 | 0.40 | 0.97 | 0.30 | 0.40 | 4.65 | 28.28 | 6.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N021 | 64 15.5N | 162 29.6W | 11 SEP | 1055 | +10 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 0 | 200.0 | 0.28 | 0.71 | 0.10 | 0.26 | 9.97 | 21.05 | 3.7 |
| 10 | 251.1 | 0.31 | 0.69 | 0.10 | 0.12 | 9.62 | 21.53 | 4.7 |
| 16 | 605.8 | 0.29 | 0.39 | 0.30 | 0.14 | 2.50 | 30.15 | 10.0 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N022 64 30.4N 162 0.1W 11 SEP 1300 +10 13

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 106.9 0.57 1.13 0.10 0.54 10.58 20.34 2.0
9 105.5 0.29 0.66 0.09 0.38 10.57 20.35 2.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N023 64 17.5N 161 30.7W 11 SEP 1610 +10 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 97.5 0.43 0.82 0.14 0.51 10.83 19.83 1.8
11 119.4 0.56 0.87 0.17 0.55 9.96 20.18 2.2

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N024 64 29.8N 168 28.3W 14 SEP 1930 +10 39

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 87.9 0.73 1.67 0.33 0.66 6.99 31.64 1.6
9 86.5 0.15 1.22 0.28 0.19 7.00 31.63 1.6
21 85.6 0.50 1.43 0.31 0.66 7.00 31.63 1.6
31 199.6 0.97 2.78 0.68 0.20 4.03 31.94 3.4
36 208.8 1.10 2.93 0.71 * 3.74 32.10 3.6

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N025 64 30.0N 167 30.0W 14 SEP 1645 +10 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 0 | 122.4 | 0.79 | 1.91 | 0.25 | 0.47 | 5.85 | 31.88 | 2.2 |
| 10 | 123.3 | 0.61 | 1.80 | 0.26 | 0.52 | 5.84 | 31.88 | 2.2 |
| 19 | 476.4 | 1.17 | 3.52 | 0.65 | 0.44 | 2.69 | 32.08 | 8.0 |
| 25 | 482.1 | 1.12 | 3.41 | 0.65 | 0.47 | 2.64 | 32.10 | 8.1 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N026 64 30.2N 166 31.5W 14 SEP 1410 +10 28

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|------|
| 1 | 257.0 | 0.38 | 1.45 | 0.24 | 0.79 | 9.53 | 24.41 | 4.8 |
| 11 | 533.1 | 3.34 | 2.24 | 1.07 | 0.60 | 7.55 | 29.72 | 10.0 |
| 22 | 399.8 | 3.48 | 2.21 | 0.98 | 0.42 | 7.77 | 30.65 | 7.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N027 65 0.0N 168 26.7W 14 SEP 2245 +10 48

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 90.7 | 0.63 | 1.73 | 0.35 | 0.73 | 6.48 | 31.73 | 1.6 |
| 10 | 90.7 | 0.48 | 1.43 | 0.36 | 0.61 | 6.43 | 31.66 | 1.6 |
| 20 | 211.5 | 1.17 | 3.18 | 0.83 | 0.62 | 3.82 | 32.01 | 3.6 |
| 31 | 214.8 | 1.24 | 3.16 | 0.82 | 0.59 | 3.71 | 32.08 | 3.7 |
| 42 | 217.6 | 1.14 | 3.19 | 0.85 | 0.63 | 3.68 | 32.08 | 3.7 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N028 | 65 0.1N | 167 31.5W | 15 SEP | 0100 | +10 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 135.8 | 0.45 | 0.96 | 0.17 | 0.38 | 7.60 | 29.56 | 2.5 |
| 11 | 199.3 | 0.39 | 1.63 | 0.21 | 0.45 | 7.04 | 31.43 | 3.7 |
| 26 | 204.1 | 0.44 | 1.63 | 0.19 | 0.45 | 6.87 | 31.50 | 3.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N028A | 64 44.3N | 166 56.9W | 22 SEP | 2040 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 173.2 | 0.49 | 1.60 | 0.18 | 0.45 | 7.43 | 29.33 | 3.2 |
| 11 | 175.3 | 0.51 | 1.61 | 0.16 | 0.41 | 6.95 | 31.20 | 3.2 |
| 20 | 167.5 | 0.47 | 1.55 | 0.16 | 0.41 | 6.82 | 31.32 | 3.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N029 | 65 17.8N | 167 0.4W | 15 SEP | 0425 | +10 | 14 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 152.3 | 0.50 | 0.87 | 0.13 | 0.34 | 9.16 | 23.45 | 2.8 |
| 11 | 343.9 | 0.59 | 1.33 | 0.23 | 0.30 | 8.57 | 25.80 | 6.4 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N030 65 30.8N 168 31.0W 15 SEP 0750 +10 58

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 2 | 386.2 | 0.78 | 2.64 | 0.48 | 0.46 | 7.84 | 27.55 | 7.2 |
| 12 | 330.8 | 0.39 | 2.16 | 0.39 | 0.48 | 6.92 | 31.40 | 6.1 |
| 20 | 192.3 | 0.27 | 1.59 | 0.31 | 0.54 | 6.53 | 31.59 | 3.5 |
| 42 | 175.8 | 0.40 | 1.29 | 0.26 | 0.50 | 5.24 | 31.80 | 3.1 |
| 51 | 170.2 | 0.31 | 0.87 | 0.23 | * | 4.61 | 31.88 | 3.0 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N001 | 64 19.8N | 162 2.0W | 10 JUL | 1233 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 10 | 199.1 | 0.14 | * | * | * | 10.48 | 23.07 | 3.3 |
| 14 | 340.5 | 0.20 | 1.59 | 0.16 | * | 10.03 | 25.04 | 6.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N002 | 64 11.3N | 161 25.7W | 10 JUL | 0946 | + 9 | 17 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 214.0 | 0.11 | 1.94 | 0.09 | 1.23 | 11.16 | 19.25 | 4.0 |
| 10 | 209.8 | 0.10 | 1.68 | T | * | 11.16 | 19.44 | 4.0 |
| 12 | 220.3 | 0.19 | 1.79 | 0.14 | 1.14 | 10.93 | 20.96 | 4.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N003 | 63 59.9N | 162 0.4W | 10 JUL | 0709 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 229.7 | 0.13 | 1.88 | T | 1.25 | 10.51 | 23.65 | 4.4 |
| 10 | 1024.0 | 0.31 | 1.64 | 0.19 | 0.47 | 9.31 | 28.11 | 19.8 |
| 14 | 929.2 | 0.30 | 1.62 | 0.20 | 0.39 | 7.22 | 31.06 | 17.4 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N004 63 48.3N 161 22.2W 10 JUL 0403 + 9 9

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 533.5 0.18 1.64 * T 11.19 22.11 10.4
4 518.8 * 1.80 0.12 1.12 11.14 22.05 10.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N005 63 40.2N 161 18.8W 09 JUL 2240 + 9 13

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 572.6 0.17 2.63 0.17 1.74 10.38 24.49 11.1
4 618.4 0.13 1.76 0.09 * 10.35 24.51 12.0
8 811.4 0.17 1.43 0.09 0.86 10.02 25.65 15.7

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N006 63 40.0N 161 58.3W 10 JUL 0146 + 9 13

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 560.7 0.14 1.53 0.11 1.07 * * *
8 570.7 0.14 1.53 0.10 1.55 * * *

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N007 | 63 40.2N | 162 59.4W | 11 JUL | 0501 | + 9 | 15 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 234.4 | 0.11 | 1.42 | 0.18 | 0.90 | 10.41 | 20.94 | 4.4 |
| 5 | 186.3 | 0.14 | 1.59 | 0.12 | 0.95 | 10.36 | 22.83 | 3.5 |
| 10 | 242.0 | 0.13 | 1.41 | 0.14 | 0.74 | 9.80 | 26.01 | 4.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N07A | 63 25.6N | 163 18.8W | 11 JUL | 0730 | + 9 | 10 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 298.8 | 0.12 | 1.59 | 0.11 | 0.92 | 10.64 | 20.11 | 5.6 |
| 5 | 300.9 | 0.12 | 1.55 | 0.13 | 1.07 | 10.63 | 20.43 | 5.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N7SB | 63 8.0N | 163 16.0W | 11 JUL | 1000 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 434.0 | 0.51 | 3.84 | 0.36 | 1.78 | * | * | * |
| 0 | 408.9 | 0.18 | 3.16 | 0.22 | 1.75 | * | * | * |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N008 63 59.9N 163 2.1W 10 JUL 2023 + 9 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 133.1 0.14 2.11 0.22 1.35 11.75 23.18 2.6
10 276.7 0.14 1.29 0.13 0.39 8.23 30.52 5.3
15 286.0 0.12 1.37 0.15 0.53 8.20 30.60 5.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N009 64 15.0N 163 9.0W 10 JUL 1552 + 9 21

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 119.6 0.16 1.90 0.17 1.13 11.50 22.98 2.3
10 261.9 0.41 1.91 * 1.04 10.96 24.10 5.1
16 309.5 0.16 1.31 0.10 0.63 9.64 27.01 0.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N09A 64 10.6N 163 2.9W 10 JUL 1820 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 148.3 0.11 2.19 * 1.57 11.63 21.92 2.9
10 173.4 0.31 1.71 0.22 0.91 11.26 23.81 3.4
20 587.8 0.27 1.60 0.18 0.68 8.24 30.03 11.2

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N010 64 20.2N 164 1.7W 11 JUL 1843 + 9 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 108.4 0.16 1.99 0.12 1.24 11.59 23.22 2.1
7 122.1 0.10 1.51 0.11 0.94 11.14 23.65 2.4
13 144.4 0.20 1.79 0.22 0.61 10.24 27.86 2.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N10A 64 8.2N 164 1.4W 11 JUL 1627 + 9 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 100.4 0.14 2.95 0.15 1.79 11.90 23.29 2.0
10 282.1 0.23 1.57 0.18 0.51 8.55 30.39 5.4
19 286.1 0.21 1.34 0.16 0.35 8.21 30.66 5.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N011 64 0.2N 163 59.4W 10 JUL 2340 + 9 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 86.2 0.16 1.56 0.12 0.92 11.18 25.85 1.7
13 235.0 0.42 2.38 0.30 0.93 8.66 30.16 4.5

CRUISE NUMBER
RP-4-D1-79A-V1

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| NO12 | 63 40.5N | 163 57.7W | 11 JUL | 0212 | + 9 | 13 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 258.3 | 0.19 | 1.77 | T | T | 9.95 | 26.72 | 5.0 |
| 4 | 260.5 | 0.15 | 1.36 | 0.13 | 0.75 | 9.95 | 26.74 | 5.0 |
| 8 | 290.3 | 0.14 | 1.32 | 0.13 | 0.83 | 9.91 | 26.86 | 5.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| NO13 | 63 20.3N | 165 11.2W | 12 JUL | 0757 | + 9 | 13 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 1 | 285.4 | 0.25 | 1.32 | 0.22 | 0.62 | 8.63 | 29.34 | 5.5 |
| 8 | 287.5 | 0.17 | 1.26 | 0.16 | 0.49 | 8.62 | 29.35 | 5.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-----|------|
| N13SB | 63 7.0N | 164 46.0W | 12 JUL | 1000 | + 9 | 0 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 2222.6 | 0.33 | 2.30 | 0.30 | 1.30 | * | * | * |
| 0 | 2149.8 | 0.26 | 2.36 | 0.25 | 1.36 | * | * | * |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N014 63 39.6N 165 0.5W 12 JUL 0055 + 9 17

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 400.4 0.35 1.31 0.25 0.56 9.28 28.63 7.8
12 441.8 T 0.77 0.13 0.39 9.08 28.79 8.5

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N015 64 0.0N 164 59.8W 11 JUL 2232 + 9 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 142.0 0.14 1.12 0.09 0.46 9.11 28.48 2.7
14 158.8 0.14 1.40 0.12 0.70 9.06 28.78 3.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N016 64 11.6N 165 1.2W 07 JUL 1227 + 9 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 117.0 T 0.74 T 0.53 8.99 27.82 2.2
14 138.5 0.18 1.51 0.13 0.77 * * *

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N017 | 64 19.6N | 165 2.7W | 07 JUL | 1814 | + 9 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 110.3 | 0.15 | 1.42 | 0.13 | 0.77 | 10.79 | 27.41 | 2.2 |
| 20 | 133.1 | 0.21 | 1.74 | 0.19 | 0.62 | 9.08 | 30.04 | 2.6 |
| 25 | 131.1 | 0.20 | 1.71 | 0.17 | 0.65 | 9.07 | 30.06 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N17A | 64 19.3N | 165 2.6W | 16 JUL | 0820 | + 9 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 1 | 112.5 | 0.31 | 1.68 | 0.18 | 0.92 | * | * | * |
| 10 | 243.7 | 0.92 | 1.63 | 0.28 | 0.68 | * | * | * |
| 24 | 316.2 | 1.55 | 1.75 | 0.46 | 0.60 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N17B | 64 19.3N | 165 2.6W | 16 JUL | 1205 | + 9 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 127.0 | 0.39 | 1.87 | 0.18 | 0.93 | 11.07 | 27.94 | 2.5 |
| 15 | 368.9 | 1.98 | 1.59 | 0.55 | 0.66 | 8.50 | 28.82 | 7.0 |
| 28 | 358.8 | 2.08 | 1.75 | 0.57 | 0.67 | 8.68 | 29.25 | 6.9 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N17C 64 19.3N 165 2.6W 16 JUL 1604 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 121.9 | 0.33 | 1.92 | 0.16 | 0.88 | 11.02 | 28.03 | 2.4 |
| 15 | 345.6 | 1.91 | 1.65 | 0.52 | 0.64 | 8.42 | 28.97 | 6.6 |
| 27 | 367.9 | 2.30 | 1.75 | 0.62 | 0.64 | 8.66 | 29.23 | 7.0 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N17D 64 19.3N 165 2.6W 16 JUL 2100 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 128.1 | 0.35 | 1.83 | 0.23 | 0.99 | 10.81 | 28.21 | 2.5 |
| 15 | 305.7 | 1.44 | 1.75 | 0.45 | 0.69 | 8.67 | 28.81 | 5.8 |
| 27 | 294.4 | 1.34 | 1.74 | 0.57 | 0.71 | 8.80 | 29.23 | 5.6 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N17E 64 19.3N 165 2.6W 17 JUL 0010 + 9 9

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 266.8 | 1.39 | 1.82 | 0.48 | 0.54 | 10.45 | 28.30 | 5.7 |
| 14 | 265.3 | 1.01 | 1.64 | 0.33 | 0.65 | 8.78 | 28.65 | 5.1 |
| 27 | 142.2 | 0.35 | 1.72 | 0.20 | 0.74 | 8.80 | 29.28 | 2.7 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N17F 64 19.3N 165 2.6W 17 JUL 0400 + 9 9

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 127.3 0.42 1.83 0.20 0.83 10.91 28.00 2.5
15 341.2 2.03 1.62 0.55 0.56 8.40 28.85 6.5
25 388.9 1.98 1.55 0.57 0.63 8.54 29.10 7.4

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018 64 20.6N 165 22.7W 07 JUL 2050 + 9 29

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 116.9 0.24 1.53 0.21 0.61 10.47 27.73 2.3
9 115.7 * 0.82 * 0.32 10.16 28.82 2.3
24 142.9 0.35 2.28 0.22 9.47 9.15 29.99 2.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N019 64 14.1N 165 16.7W 07 JUL 1445 + 9 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 159.6 0.21 1.58 0.11 0.76 8.76 27.95 3.0
13 165.2 0.29 1.24 0.10 0.46 8.10 30.04 3.1

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| N020 | 64 7.2N | 165 30.1W | 07 JUL | 0920 | + 9 | 21 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 3 | 178.8 | 0.63 | 1.53 | 0.32 | 0.70 | 7.28 | 29.67 | 3.3 |
| 8 | 182.8 | 0.63 | 1.43 | 0.32 | 0.69 | 7.23 | 29.63 | 3.4 |
| 15 | 180.1 | 0.66 | 1.40 | 0.29 | 0.65 | 7.23 | 29.69 | 3.3 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| N021 | 64 12.3N | 165 31.5W | 07 JUL | 0645 | + 9 | 20 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 0 | 171.3 | 0.17 | 1.53 | 0.14 | 0.74 | 8.21 | 28.73 | 3.2 |
| 9 | 200.5 | 0.41 | 1.44 | 0.20 | 0.64 | 7.88 | 29.14 | 3.7 |
| 15 | 211.0 | 0.48 | 1.49 | 0.22 | 0.68 | 7.20 | 29.51 | 3.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | | |
|---------|----------|-----------|--------|---------|---------|--------------|-------|------|
| N21B1 | 64 16.1N | 165 45.6W | 14 JUL | 2005 | + 9 | 19 | | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
| 3 | 164.8 | 1.30 | 2.11 | 0.48 | 1.09 | 10.52 | 27.92 | 3.2 |
| 9 | 294.2 | 3.69 | 1.59 | 1.05 | 0.61 | 8.02 | 29.51 | 5.5 |
| 16 | 302.4 | 4.01 | 1.67 | 1.14 | 0.62 | 8.15 | 29.57 | 5.7 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N21B2 | 64 16.1N | 165 45.6W | 15 JUL | 0000 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 208.3 | 1.05 | 1.49 | 0.19 | 0.60 | 11.87 | 27.76 | 4.2 |
| 10 | 215.3 | 1.01 | 1.47 | 0.44 | 0.52 | 7.70 | 29.31 | 4.0 |
| 15 | 206.7 | 1.07 | 1.47 | 0.43 | 0.54 | 7.69 | 29.38 | 3.8 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N21B3 | 64 16.1N | 165 45.6W | 15 JUL | 0400 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 103.0 | 0.57 | 2.42 | 0.32 | 1.32 | 12.15 | 27.57 | 2.1 |
| 10 | 201.6 | 0.93 | 1.40 | 0.42 | 0.52 | 7.58 | 29.37 | 3.7 |
| 14 | 200.9 | 0.95 | 1.46 | 0.39 | 0.59 | 7.57 | 29.42 | 3.7 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N21B4 | 64 16.1N | 165 45.6W | 15 JUL | 0800 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 2 | 100.0 | 0.41 | 2.53 | 0.22 | 1.36 | 12.34 | 27.03 | 2.0 |
| 10 | 230.2 | 1.85 | 1.56 | 0.63 | 0.56 | 7.70 | 29.37 | 4.3 |
| 16 | 221.1 | 1.53 | 1.56 | 0.53 | 0.57 | 7.54 | 29.47 | 4.1 |

CRUISE NUMBER
RP-4-D1-79A-V1

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N2185 | 64 16.1N | 165 45.6W | 15 JUL | 1205 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 94.2 | 0.36 | 2.63 | 0.24 | 1.49 | 12.29 | 27.13 | 1.9 |
| 10 | 237.6 | 1.99 | 1.66 | 0.62 | 0.60 | 7.78 | 29.40 | 4.4 |
| 15 | 221.2 | 1.50 | 1.58 | 0.55 | 0.57 | 7.49 | 29.50 | 4.1 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N2186 | 64 16.1N | 165 45.6W | 15 JUL | 1600 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 89.0 | 0.32 | 2.57 | 0.17 | 1.39 | 12.49 | 27.00 | 1.8 |
| 10 | 240.4 | 2.22 | 1.56 | 0.73 | 0.61 | 7.90 | 29.34 | 4.6 |
| 14 | 214.4 | 1.32 | 1.55 | 0.48 | 0.59 | 7.52 | 29.44 | 4.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N2187 | 64 16.1N | 165 45.6W | 15 JUL | 2000 | + 9 | 19 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 102.1 | 0.50 | 2.39 | 0.26 | 1.25 | 12.37 | 27.15 | 2.1 |
| 10 | 218.2 | 1.25 | 2.02 | 0.64 | 0.79 | 7.45 | 29.44 | 4.0 |
| 15 | 214.6 | 1.01 | 1.57 | 0.45 | 0.51 | 7.44 | 29.49 | 4.0 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-16 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N2188 64 16.1N 165 45.6W 15 JUL 0000 + 9 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 234.2 1.13 1.55 0.47 1.09 11.87 27.42 4.8
10 238.5 1.24 1.58 0.53 0.60 7.46 29.46 4.4
15 112.6 0.44 2.03 0.23 1.04 7.43 29.51 2.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N2189 64 16.1N 165 45.6W 16 JUL 0400 + 9 19

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 109.0 0.49 1.78 0.26 0.89 10.95 27.97 2.2
10 235.1 1.07 1.57 0.44 0.54 7.35 29.52 4.3
15 234.0 1.07 1.55 0.41 0.53 7.34 29.54 4.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N022 64 19.9N 165 41.6W 07 JUL 2332 + 9 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 101.2 0.28 0.93 0.15 0.36 9.06 28.06 1.9
12 326.2 4.78 2.40 1.31 1.13 8.46 29.88 6.2
18 285.9 3.90 1.86 1.05 0.64 8.47 29.99 5.5

CRUISE NUMBER
RP-4-D1-79A-V1

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N023 64 26.9N 165 42.4W 08 JUL 1145 + 9 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 96.5 | 0.11 | 1.50 | 0.12 | 0.71 | 10.63 | 28.13 | 1.9 |
| 13 | 86.1 | * | 0.78 | 0.10 | 0.44 | 9.79 | 29.23 | 1.7 |
| 19 | 118.0 | 0.54 | 0.38 | * | * | 9.53 | 29.50 | 2.3 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N024 64 28.2N 165 59.7W 08 JUL 0905 + 9 18

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|-------|-------|-----|
| 1 | 94.4 | 0.14 | 1.34 | 0.12 | 0.59 | 10.38 | 28.21 | 1.8 |
| 8 | 95.6 | 0.13 | 1.30 | 0.11 | 0.53 | 10.27 | 28.57 | 1.9 |
| 11 | 146.0 | 0.20 | 1.74 | 0.15 | 0.64 | 10.01 | 28.82 | 2.9 |
| 18 | 150.9 | 0.17 | 1.56 | 0.15 | 0.59 | 9.36 | 29.76 | 2.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N025 64 19.6N 165 59.3W 08 JUL 0245 + 9 21

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 144.0 | 0.73 | 1.45 | 0.30 | 0.74 | 8.80 | 27.97 | 2.7 |
| 11 | 184.0 | 1.05 | 1.58 | 0.41 | 0.60 | 7.82 | 29.08 | 3.4 |
| 17 | 179.2 | 0.87 | 1.80 | 0.33 | 0.78 | 7.85 | 29.61 | 3.3 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N026 | 64 12.2N | 165 59.7W | 07 JUL | 0310 | + 9 | 22 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 166.4 | 1.35 | 1.53 | 0.94 | 0.72 | 7.84 | 29.34 | 3.1 |
| 11 | 157.3 | 0.29 | 1.74 | 0.20 | 0.71 | 7.18 | 29.79 | 2.9 |
| 16 | 163.7 | 0.27 | 1.60 | 0.20 | 0.67 | 6.87 | 29.85 | 3.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N027 | 64 25.3N | 166 27.4W | 08 JUL | 0605 | + 9 | 27 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 116.4 | 0.41 | 1.56 | 0.21 | 0.68 | 9.39 | 28.34 | 2.2 |
| 16 | 165.5 | 0.51 | 1.74 | 0.24 | 0.58 | 9.03 | 29.66 | 3.2 |
| 22 | 179.5 | 0.76 | 1.85 | 0.27 | 0.73 | 8.82 | 29.80 | 3.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N028 | 64 12.1N | 166 27.4W | 06 JUL | 2325 | + 9 | 26 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 172.3 | 0.45 | 1.89 | 0.25 | 0.74 | 6.99 | 29.97 | 3.2 |
| 15 | 181.3 | 0.31 | 1.64 | 0.19 | 0.69 | 6.62 | 30.02 | 3.3 |
| 21 | 174.0 | 0.34 | 1.55 | 0.20 | 0.65 | 6.37 | 30.08 | 3.1 |

CRUISE NUMBER
RP-4-D1-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N029 | 64 0.4N | 165 59.5W | 14 JUL | 1050 | + 9 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 96.1 | 0.20 | 3.03 | 0.20 | 1.66 | 9.99 | 28.81 | 1.9 |
| 10 | 119.7 | 0.20 | 1.34 | 0.16 | 0.67 | 8.43 | 28.89 | 2.2 |
| 19 | 161.9 | 0.35 | 1.87 | 0.27 | 0.58 | 6.47 | 30.32 | 2.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N030 | 63 39.7N | 165 59.3W | 14 JUL | 0830 | + 9 | 27 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 9 | 125.3 | 0.30 | 1.60 | 0.26 | 0.56 | 7.72 | 30.29 | 2.3 |
| 22 | 248.0 | 0.49 | 2.18 | 0.31 | 0.57 | 5.26 | 31.42 | 4.4 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N031 | 63 20.6N | 166 0.1W | 12 JUL | 0455 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 134.4 | 0.24 | 1.88 | 0.23 | 0.74 | 7.52 | 30.67 | 2.5 |
| 10 | 150.3 | 0.30 | 1.79 | 0.23 | 0.59 | 6.57 | 30.91 | 2.7 |
| 20 | 173.4 | 0.31 | 2.08 | 0.26 | 0.53 | 5.89 | 31.13 | 3.1 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N32A | 62 39.3N | 165 40.5W | 12 JUL | 1425 | + 9 | 14 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|-------|-------|------|
| 1 | 346.8 | 0.27 | 4.64 | 0.22 | 2.12 | 10.00 | 22.87 | 5.6 |
| 9 | 132.4 | 0.20 | 1.39 | 0.17 | 0.55 | 9.22 | 28.79 | 2.5 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N32SB | 62 36.0N | 165 24.0W | 12 JUL | 1500 | + 9 | 0 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-----|------|
| 0 | 1558.5 | 0.33 | 3.85 | 0.37 | 1.95 | * | * | * |
| 0 | 1524.2 | 0.26 | 2.79 | 0.35 | 1.70 | * | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N033 | 63 0.4N | 167 3.1W | 12 JUL | 2120 | + 9 | 25 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 67.6 | 0.10 | 1.49 | 0.15 | 0.50 | 7.71 | 30.73 | 1.2 |
| 12 | 120.4 | 0.55 | 3.17 | 0.60 | 0.89 | 6.06 | 30.90 | 2.1 |
| 22 | 109.3 | 0.30 | 1.41 | 0.28 | 0.43 | 5.46 | 31.02 | 1.8 |

CRUISE NUMBER
RP-4-D1-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N034 63 20.0N 167 1.4W 13 JUL 0820 + 9 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 111.9 0.49 3.31 0.34 1.05 6.35 31.29 2.0
11 113.0 0.24 2.29 0.32 0.59 5.20 31.24 2.0
22 114.2 0.54 2.09 0.37 0.63 5.10 31.34 2.0

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N035 63 30.3N 167 36.9W 13 JUL 1030 + 9 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

2 60.6 0.47 3.20 0.39 0.97 6.29 31.73 1.4
9 68.3 * 1.11 0.22 0.40 5.85 31.42 1.2
27 113.8 1.01 2.43 0.68 0.38 3.38 31.81 1.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N036 63 39.0N 167 3.6W 14 JUL 0125 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

4 121.7 0.52 3.32 0.38 1.15 6.74 31.56 2.2
10 70.6 0.19 1.14 0.18 0.25 5.00 31.63 1.2
24 193.0 0.64 1.96 0.33 2.17 4.28 31.78 3.3

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N037 63 48.2N 167 22.7W 13 JUL 2215 + 9 34

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

9 99.0 0.52 2.21 0.38 0.61 5.39 31.27 1.7
29 116.3 0.52 1.20 0.25 * 2.82 31.81 1.9

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N038 64 0.3N 167 1.3W 14 JUL 0420 + 9 33

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 96.7 0.33 4.23 0.31 1.35 8.19 31.51 1.8
10 133.6 0.42 2.38 0.32 0.81 5.70 31.45 2.4
20 254.0 0.88 2.31 0.60 0.44 5.03 31.51 4.5
28 242.0 0.98 2.29 0.60 0.41 3.17 31.78 4.1

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N039 64 20.2N 167 2.4W 18 JUL 0415 + 9 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 83.1 0.39 2.14 0.19 1.04 7.93 31.11 1.5
10 229.4 0.48 2.33 0.32 0.81 6.08 31.19 4.1
27 200.6 0.67 2.48 0.66 0.65 4.17 31.70 3.5

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N040 64 40.3N 167 1.9W 17 JUL 1220 + 9 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 102.1 0.26 1.99 0.19 0.79 9.70 29.22 2.6
11 104.3 0.18 2.52 0.18 0.88 8.38 28.87 1.9
21 202.4 0.46 2.26 * + 8.33 29.08 3.8

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N041 64 40.3N 168 1.4W 17 JUL 1340 + 9 38

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 73.3 0.16 2.26 0.26 0.79 7.54 31.06 1.3
10 93.7 0.51 2.73 0.62 1.22 5.26 31.71 1.0
20 98.2 0.67 2.33 0.43 * 4.86 31.56 1.7
33 143.1 1.02 2.42 0.66 0.55 2.53 31.78 2.3

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N042 64 20.2N 168 0.0W 16 JUL 0130 + 9 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

1 75.2 0.33 2.57 0.21 1.01 7.08 30.57 1.4
10 94.4 0.41 2.90 0.43 1.21 5.25 31.42 1.6
20 105.3 1.35 2.57 0.62 0.52 2.78 31.75 2.6
31 157.8 1.42 2.00 0.83 0.56 2.74 31.77 2.6

CRUISE NUMBER
RP-4-D1-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N043 | 63 59.5N | 168 1.2W | 13 JUL | 2050 | + 9 | 38 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 75.4 | 0.25 | 2.08 | 0.21 | 0.53 | 6.70 | 31.65 | 1.4 |
| 10 | 97.6 | 0.64 | 5.16 | 0.63 | 1.57 | 6.30 | 31.60 | 1.8 |
| 20 | 90.2 | 0.33 | 1.92 | 0.35 | 0.53 | 4.95 | 31.71 | 1.6 |
| 33 | 159.3 | 1.63 | 2.98 | 0.92 | 0.56 | 2.62 | 31.80 | 2.6 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N044 | 63 40.5N | 168 0.7W | 13 JUL | 1220 | + 9 | 32 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 80.4 | 0.27 | 3.01 | 0.22 | 0.85 | 6.72 | 31.45 | 1.5 |
| 10 | 88.6 | 0.54 | 3.12 | 0.40 | 0.86 | 5.27 | 31.32 | 1.5 |
| 28 | 137.1 | 0.82 | 2.12 | 0.48 | 0.27 | 2.53 | 31.80 | 2.2 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N045 | 63 23.2N | 168 29.0W | 13 JUL | 0320 | + 9 | 31 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 27 | 101.6 | 0.71 | 2.12 | 0.50 | 0.39 | 1.96 | 31.81 | 1.6 |

CRUISE NUMBER
RP-4-DI-79A-VI

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N046 | 03 19.7N | 167 59.1W | 13 JUL | 0520 | + 9 | 29 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 1 | 86.4 | 0.65 | 3.12 | 0.38 | 0.99 | 5.25 | 31.66 | 1.5 |
| 19 | 118.7 | 0.77 | 2.42 | 0.41 | 0.66 | 3.61 | 31.73 | 2.0 |
| 24 | 121.2 | 0.75 | 2.39 | 0.42 | 0.68 | 3.78 | 31.73 | 2.0 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N047 | 03 0.0N | 168 0.5W | 13 JUL | 0020 | + 9 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 96.7 | 0.22 | 1.23 | 0.31 | 0.47 | 6.28 | 31.56 | 1.7 |
| 13 | 102.4 | 0.53 | 2.30 | 0.36 | 0.50 | 5.22 | 31.57 | 1.8 |
| 19 | 107.9 | 0.51 | 2.99 | 0.54 | 1.10 | 5.15 | 31.62 | 1.9 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N048 | 04 0.1N | 168 59.5W | 13 JUL | 1435 | + 9 | 32 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | TEMP | SAL | C/C* |
|-------|---------|--------|--------|---------|---------|------|-------|------|
| 2 | 81.9 | 0.30 | 3.55 | 0.30 | 1.21 | 6.37 | 30.46 | 1.5 |
| 10 | 81.0 | 0.26 | 3.14 | 0.22 | 1.11 | 6.10 | 30.39 | 1.4 |
| 20 | 119.0 | 0.75 | 2.18 | 0.50 | 0.49 | 2.11 | 31.84 | 1.9 |
| 28 | 126.2 | 0.71 | 2.11 | 0.56 | 0.44 | 1.89 | 31.89 | 2.1 |

CRUISE NUMBER
RP-4-DI-79A-V1

LOCATION
NORTON SOUND

INCLUSIVE DATES
02 JUL-18 JUL 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N049 64 19.9N 169 1.0W 17 JUL 2235 + 9 41

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 86.7 | 2.23 | 0.52 | 1.09 | 0.24 | 4.27 | 31.57 | 1.5 |
| 10 | 113.3 | 0.63 | 2.62 | 0.42 | 0.79 | 3.23 | 31.37 | 1.9 |
| 21 | 116.3 | 0.00 | 2.36 | 0.45 | 0.95 | 2.49 | 31.70 | 1.9 |
| 35 | 114.7 | 0.71 | 2.37 | 0.50 | 0.76 | 2.40 | 31.71 | 1.9 |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N050 64 39.0N 169 0.0W 17 JUL 2015 + 9 44

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE TEMP SAL C/C*

| | | | | | | | | |
|----|-------|------|------|------|------|------|-------|-----|
| 1 | 94.6 | 0.53 | 2.01 | 0.36 | 0.92 | 4.30 | 31.34 | 1.0 |
| 10 | 114.6 | 0.67 | 2.27 | 0.50 | 0.53 | 2.44 | 31.45 | 1.9 |
| 20 | 120.8 | 0.80 | 2.13 | 0.56 | 0.50 | 1.12 | 31.97 | 2.0 |
| 39 | 132.4 | 1.01 | 2.10 | 0.54 | 0.49 | 0.94 | 31.98 | 2.1 |

APPENDIX G

Chukchi Sea

G.1

RP-4-DI-76B-IV

08 Sep. - 24 Sep. 1976

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C001 66 0.5N 168 22.5W 22 SEP 1040 +10 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 122.9 0.47 1.06 0.13 0.37 * *
11 159.3 0.45 1.04 0.17 0.29 * *
21 303.2 0.58 1.93 0.31 0.38 * *
40 311.6 0.67 2.16 0.39 0.42 * *
50 312.4 0.62 2.13 0.39 0.44 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C002 66 30.1N 168 24.1W 15 SEP 1410 +10 49

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 116.7 0.27 0.86 0.16 0.37 * *
11 179.6 0.43 1.77 0.34 0.59 * *
21 198.7 0.52 1.96 0.39 0.65 * *
46 238.2 0.73 2.37 0.59 0.61 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C003 66 30.5N 167 1.6W 22 SEP 0630 +10 31

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

2 96.5 0.39 0.89 0.13 0.32 * *
13 112.5 0.36 0.85 0.15 0.24 * *
29 282.5 0.72 2.44 0.52 0.53 * *

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C004 66 30.0N 165 39.2W 17 SEP 0325 +10 16

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 132.0 0.35 1.01 0.21 0.45 * *
12 110.1 0.34 0.94 0.22 0.34 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C005 66 17.9N 163 13.4W 16 SEP 1115 +10 14

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 436.5 0.44 1.35 0.13 0.49 * *
10 2051.5 0.87 2.12 0.34 0.52 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C006 66 23.3N 162 14.4W 17 SEP 1700 +10 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 290.0 0.66 1.43 0.13 0.70 * *
10 2851.1 0.29 1.29 0.53 0.32 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C007 66 44.5N 163 18.0W 16 SEP 0815 +10 14

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 261.8 0.52 1.22 0.11 0.47 * *
12 628.3 0.48 1.47 0.20 0.42 * *

CRUISE NUMBER
RP-4-OI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C07A 66 52.5N 163 9.4W 17 SEP 1005 +10 14

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 220.5 0.36 0.86 0.15 0.40 * *
11 625.4 0.43 1.06 0.17 0.38 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C008 67 0.3N 168 26.2W 15 SEP 1840 +10 35

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 167.8 0.85 1.74 0.61 0.50 * *
10 163.6 0.57 1.64 0.51 0.51 * *
17 164.0 0.82 2.08 0.49 0.49 * *
26 217.1 0.76 2.04 0.64 0.54 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C009 67 0.2N 167 1.9W 15 SEP 2330 +10 42

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 104.4 0.13 0.89 0.19 * * *
11 150.3 0.27 1.38 0.40 0.53 * *
21 228.7 0.94 2.33 0.63 0.51 * *
36 230.7 0.90 1.89 0.54 0.52 * *

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C010 | 67 0.0N | 165 40.0W | 16 SEP | 0230 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 87.9 | 0.37 | 0.99 | 0.13 | 0.37 | * | * |
| 11 | 190.3 | 0.59 | 1.96 | 0.24 | 0.56 | * | * |
| 20 | 233.1 | 0.73 | 2.52 | 0.32 | 0.72 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C10TA | 66 58.0N | 165 46.7W | 18 SEP | 0415 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 2 | 90.3 | 0.30 | 0.65 | 0.11 | 0.11 | * | * |
| 12 | 173.9 | 0.43 | 1.86 | 0.29 | 0.61 | * | * |
| 21 | * | 0.55 | 2.42 | 0.34 | 0.63 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C10TB | 66 58.0N | 165 46.7W | 18 SEP | 0615 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 117.3 | 0.86 | 1.46 | 0.21 | 0.47 | * | * |
| 12 | 199.8 | 1.05 | 3.67 | 0.62 | 0.71 | * | * |
| 19 | 202.5 | 0.57 | 2.20 | 0.36 | 0.66 | * | * |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TC 66 58.0N 165 46.7W 18 SEP 0815 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 105.1 | 0.35 | 0.90 | 0.14 | 0.40 | * | * |
| 11 | 124.2 | 0.36 | 1.13 | 0.20 | 0.50 | * | * |
| 20 | 179.4 | 0.51 | 1.96 | 0.33 | 0.59 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TD 66 58.0N 165 46.7W 18 SEP 1015 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 92.3 | 0.67 | 1.18 | 0.13 | 0.26 | * | * |
| 11 | 170.2 | 0.81 | 2.36 | 0.33 | 0.64 | * | * |
| 19 | 168.3 | 0.83 | 2.34 | 0.35 | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TE 66 58.0N 165 46.7W 18 SEP 1215 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 101.0 | 0.72 | 1.41 | 0.12 | 0.31 | * | * |
| 11 | 199.6 | 0.57 | 2.27 | 0.39 | 0.64 | * | * |
| 18 | 193.2 | 0.57 | 2.15 | 0.35 | 0.59 | * | * |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TF 66 58.0N 165 46.7W 18 SEP 1415 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 99.2 | 0.54 | 0.78 | 0.09 | T | * | * |
| 11 | 197.3 | 1.00 | 3.14 | 0.38 | 0.64 | * | * |
| 20 | 198.7 | 1.03 | 2.79 | 0.38 | 0.65 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TG 66 58.0N 165 46.7W 18 SEP 1615 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 98.4 | 0.38 | 0.79 | 0.11 | T | * | * |
| 11 | 188.0 | 0.62 | 2.12 | 0.37 | 0.52 | * | * |
| 20 | 192.9 | 0.59 | 2.20 | 0.38 | 0.54 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TH 66 58.0N 165 46.7W 18 SEP 1810 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 153.3 | 3.06 | 5.93 | 1.32 | 0.46 | * | * |
| 11 | 193.1 | 0.72 | 2.25 | 0.39 | 0.55 | * | * |
| 20 | 197.6 | 0.74 | 2.27 | 0.40 | 0.62 | * | * |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C10TI | 66 58.0N | 165 46.7W | 18 SEP | 2015 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 96.6 | 0.41 | 0.80 | 0.11 | T | * | * |
| 12 | 229.0 | 1.08 | 2.97 | 0.33 | 0.43 | * | * |
| 18 | 197.6 | 1.18 | 3.05 | 0.40 | 0.11 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C10TJ | 66 58.0N | 165 46.7W | 18 SEP | 2215 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 97.3 | 0.45 | 0.82 | 0.12 | T | * | * |
| 11 | 207.9 | 0.60 | 2.23 | 0.37 | 0.60 | * | * |
| 17 | 199.3 | 0.67 | 2.31 | 0.38 | 0.69 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C10TK | 66 58.0N | 165 46.7W | 19 SEP | 0010 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 92.3 | 0.44 | 0.79 | 0.10 | 0.14 | * | * |
| 12 | 182.0 | 0.55 | 1.75 | 0.28 | 0.66 | * | * |
| 20 | 197.9 | 1.02 | 2.85 | 0.41 | 0.65 | * | * |

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TL 66 58.0N 165 46.7W 19 SEP 0200 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 89.8 | 0.78 | 1.34 | 0.08 | 0.35 | * | * |
| 12 | 222.9 | 0.91 | 2.72 | 0.34 | 0.61 | * | * |
| 20 | 201.6 | 0.85 | 2.78 | 0.41 | 0.73 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TM 66 58.0N 165 46.7W 19 SEP 0415 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 88.3 | 0.35 | 0.80 | 0.10 | 0.39 | * | * |
| 11 | 231.2 | 1.01 | 2.81 | 0.33 | 0.69 | * | * |
| 20 | 211.0 | 0.90 | 2.75 | 0.39 | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C10TN 66 58.0N 165 46.7W 19 SEP 0515 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 88.8 | 0.41 | 0.79 | 0.12 | 0.26 | * | * |
| 9 | 158.3 | 0.83 | 1.83 | 0.23 | 0.46 | * | * |
| 18 | 214.6 | 0.89 | 2.88 | 0.42 | 0.70 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C011 67 0.0N 164 20.0W 16 SEP 0540 +10 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 98.4 0.62 1.35 0.13 0.50 * *
12 117.9 0.63 1.34 0.16 0.36 * *
22 308.6 0.80 2.15 0.30 0.43 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C012 67 30.2N 168 23.0W 22 SEP 0130 +10 48

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

2 122.3 0.36 1.16 0.21 0.47 * *
12 171.3 0.56 1.35 0.36 0.43 * *
22 490.1 1.52 3.26 0.99 0.37 * *
42 487.8 1.63 2.56 1.08 0.28 * *
44 483.8 1.61 2.51 1.07 0.28 * *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C013 67 30.3N 167 2.5W 20 SEP 0115 +10 47

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 128.0 0.41 0.87 0.30 0.31 * *
11 169.5 0.81 1.29 0.35 0.29 * *
21 267.9 1.23 1.78 0.46 0.29 * *
31 345.7 1.11 1.82 0.53 0.31 * *
43 418.3 1.38 2.10 0.66 0.36 * *

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C014 67 28.9N 165 39.5W 18 SEP 0100 +10 39

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 120.1 | 0.33 | 0.76 | 0.10 | 0.27 | * | * |
| 11 | 156.2 | 0.37 | 0.94 | 0.20 | 0.46 | * | * |
| 35 | 171.1 | 0.44 | 1.07 | 0.24 | 0.33 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C015 67 30.6N 164 11.2W 19 SEP 2015 +10 17

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 186.2 | 1.02 | 1.87 | 0.12 | 0.63 | * | * |
| 11 | 309.9 | 0.43 | 0.92 | 0.17 | 0.35 | * | * |
| 13 | 332.4 | 0.43 | 0.93 | 0.18 | 0.29 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C016 68 1.2N 168 28.6W 21 SEP 2205 +10 59

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 102.6 | 0.53 | 1.12 | 0.26 | 0.45 | * | * |
| 11 | 163.3 | 0.73 | 1.28 | 0.42 | 0.47 | * | * |
| 20 | 363.1 | 1.36 | 2.03 | 0.60 | 0.28 | * | * |
| 30 | 428.9 | 1.55 | 2.22 | 0.79 | 0.23 | * | * |
| 40 | 540.5 | 2.19 | 2.42 | 1.07 | 0.26 | * | * |
| 55 | 609.2 | 2.61 | 2.64 | 1.12 | 0.31 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C017 68 1.1N 167 0.0W 20 SEP 0715 +10 52

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 98.0 | 0.34 | 0.70 | 0.13 | T | * | * |
| 11 | 123.8 | 0.53 | 1.04 | 0.28 | T | * | * |
| 21 | 294.1 | 1.01 | 2.08 | 0.63 | 0.41 | * | * |
| 42 | 355.0 | 1.36 | 2.26 | 0.63 | T | * | * |
| 48 | 353.0 | 1.49 | 2.98 | 0.83 | 0.29 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C018 67 59.3N 165 46.6W 20 SEP 0445 +10 28

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 111.0 | 0.41 | 0.77 | 0.14 | 0.22 | * | * |
| 10 | 143.7 | 0.34 | 1.02 | 0.17 | * | * | * |
| 22 | 149.9 | 0.29 | 1.07 | 0.17 | 0.31 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C019 68 30.0N 168 22.0W 21 SEP 1915 +10 52

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 121.2 | 0.39 | 0.92 | 0.15 | 0.29 | * | * |
| 13 | 299.7 | 0.62 | 2.21 | 0.33 | 0.61 | * | * |
| 22 | 256.4 | 0.67 | 2.42 | 0.40 | 0.63 | * | * |
| 32 | 292.5 | 0.82 | 2.70 | 0.55 | 0.59 | * | * |
| 49 | 336.9 | 1.13 | 2.81 | 0.68 | 0.49 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C020 68 30.0N 167 0.0W 20 SEP 0935 +10 32

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 96.7 | 0.27 | 0.66 | 0.14 | 0.20 | * | * |
| 11 | 100.3 | 0.68 | 1.65 | 0.36 | 0.25 | * | * |
| 19 | 164.1 | 0.34 | 1.00 | 0.18 | T | * | * |
| 28 | 304.3 | 0.51 | 1.71 | 0.28 | 0.38 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C021 69 0.3N 168 29.3W 21 SEP 1605 +10 51

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 109.0 | 0.39 | 0.84 | 0.15 | 0.33 | * | * |
| 9 | 176.4 | 0.49 | 1.47 | 0.28 | 0.47 | * | * |
| 18 | 208.3 | 0.60 | 1.69 | 0.36 | 0.47 | * | * |
| 26 | 260.5 | 0.54 | 1.89 | 0.41 | 0.54 | * | * |
| 43 | 377.6 | 1.08 | 3.36 | 2.31 | * | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C022 68 59.2N 166 59.7W 20 SEP 1230 +10 46

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 106.2 | 0.34 | 0.68 | 0.12 | T | * | * |
| 11 | 105.6 | 0.27 | 0.62 | 0.11 | T | * | * |
| 20 | 203.6 | 0.41 | 1.36 | 0.24 | 0.35 | * | * |
| 43 | 426.4 | 1.05 | 3.10 | 0.48 | 0.43 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C023 | 69 0.9N | 165 37.0W | 20 SEP | 1515 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 119.4 | 0.70 | 1.33 | 0.22 | 0.39 | * | * |
| 11 | 120.7 | 0.62 | 0.89 | 0.26 | 0.22 | * | * |
| 17 | 208.3 | 1.12 | 2.34 | 0.41 | 0.48 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C024 | 69 30.0N | 168 21.9W | 21 SEP | 1300 | +10 | 51 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 115.1 | 0.47 | 1.19 | 0.26 | 0.45 | * | * |
| 12 | 117.4 | 0.43 | 1.14 | 0.28 | 0.43 | * | * |
| 41 | 382.2 | 1.30 | 2.70 | 0.65 | 0.27 | * | * |
| 46 | 362.8 | 1.20 | 2.65 | 0.64 | 0.28 | * | * |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| C025 | 69 30.0N | 167 4.1W | 20 SEP | 1815 | +10 | 46 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 2 | 93.7 | 0.46 | 0.68 | 0.16 | * | * | * |
| 12 | 235.8 | 0.91 | 2.21 | 0.35 | 0.41 | * | * |
| 21 | 344.4 | 1.18 | 3.20 | 0.49 | 0.64 | * | * |
| 43 | 468.9 | 1.74 | 3.75 | 0.59 | 0.39 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C026 69 30.1N 165 32.0W 20 SEP 2100 +10 33

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 101.6 | 0.75 | 1.21 | 0.14 | 0.17 | * | * |
| 11 | 100.4 | 0.35 | 0.71 | 0.16 | 0.09 | * | * |
| 20 | 229.5 | 0.82 | 2.93 | 0.51 | 0.73 | * | * |
| 29 | 369.3 | 1.14 | 3.36 | 0.55 | 0.77 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C027 69 29.5N 164 11.2W 20 SEP 2325 +10 22

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 3 | 141.5 | 0.76 | 1.13 | 0.16 | 0.27 | * | * |
| 12 | 136.1 | 0.66 | 1.02 | 0.16 | 0.29 | * | * |
| 19 | 145.3 | 0.49 | 0.97 | 0.18 | 0.32 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C028 70 0.7N 168 19.4W 21 SEP 1050 +10 45

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 96.4 | 0.47 | 1.08 | 0.18 | 0.33 | * | * |
| 12 | 95.7 | 0.45 | 1.06 | 0.18 | 0.33 | * | * |
| 21 | 301.7 | 1.57 | 4.38 | 0.90 | 0.43 | * | * |
| 31 | 321.6 | 1.32 | 3.18 | 0.70 | 0.26 | * | * |
| 41 | 321.9 | 1.32 | 3.16 | 0.70 | 0.25 | * | * |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
CHUKCHI SEA

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C029 70 0.0N 167 1.2W 21 SEP 0750 +10 47

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 113.6 | 0.43 | 0.90 | 0.14 | 0.28 | * | * |
| 12 | 113.8 | 0.36 | 0.85 | 0.14 | 0.18 | * | * |
| 21 | 419.4 | 1.00 | 3.22 | 0.60 | 0.52 | * | * |
| 32 | 421.6 | 1.06 | 3.31 | 0.59 | 0.48 | * | * |
| 44 | 435.3 | 1.04 | 3.30 | 0.59 | 0.50 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C030 69 58.5N 165 33.4W 21 SEP 0500 +10 40

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 1 | 87.0 | 0.23 | 0.58 | 0.11 | T | * | * |
| 12 | 90.3 | 0.25 | 0.59 | 0.12 | T | * | * |
| 21 | 357.1 | 1.05 | 2.86 | 0.55 | 0.64 | * | * |
| 36 | 386.2 | 1.22 | 3.15 | 0.55 | 0.58 | * | * |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
C031 69 58.5N 164 0.4W 21 SEP 0145 +10 30

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 2 | 112.1 | 0.37 | 0.79 | 0.18 | 0.22 | * | * |
| 12 | 112.5 | 0.47 | 0.91 | 0.17 | T | * | * |
| 21 | 321.3 | 1.13 | 3.33 | 0.43 | 0.56 | * | * |
| 27 | 318.6 | 1.16 | 3.36 | 0.45 | 0.56 | * | * |

APPENDIX H

Butane Data

| | | |
|-----|----------------|------------------------|
| H.1 | ACONA 245-77 | 28 Jun. - 16 Jul. 1978 |
| H.2 | RP-4-DI-78B-II | 28 Aug. - 06 Sep. 1978 |
| H.3 | RP-4-DI-79A-II | 07 May - 20 May 1979 |
| H.4 | RP-4-DI-76B-IV | 08 Sep. - 24 Sep. 1976 |

CRUISE NUMBER
ACONA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM001 60 33.7N 151 30.4W 02 JUL 0600 + 9 28

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 0 | 319.4 | 0.38 | 0.67 | 0.18 | T | T | T |
| 10 | 332.4 | 0.40 | 0.78 | 0.18 | 0.26 | T | T |
| 20 | 336.5 | 0.41 | 0.91 | 0.20 | 0.37 | T | T |
| 23 | 339.8 | 0.43 | 1.02 | 0.17 | 0.45 | T | T |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM002 60 34.2N 151 37.0W 02 JUL 0415 + 9 67

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|------|---|---|
| 0 | 428.2 | 1.58 | * | * | * | T | T |
| 10 | 419.1 | 1.41 | 0.81 | 0.75 | 0.21 | T | T |
| 19 | 408.8 | 1.33 | 0.79 | 0.69 | 0.18 | T | T |
| 59 | 409.9 | 1.28 | 0.83 | 0.67 | 0.24 | T | T |

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
PM003 60 43.1N 151 36.0W 02 JUL 0100 + 9 109

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

| | | | | | | | |
|----|-------|------|------|------|---|------|------|
| 0 | 785.7 | 7.69 | 0.46 | 4.45 | T | 0.91 | 1.10 |
| 11 | 824.0 | 9.39 | 0.44 | 5.60 | T | 1.07 | 0.97 |
| 20 | 654.1 | 4.83 | 0.23 | 2.61 | T | 0.56 | 0.52 |
| 97 | 683.1 | 3.93 | 0.30 | 1.98 | T | 0.48 | 0.46 |

CRUISE NUMBER
ACONA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM03A | 60 50.6N | 151 18.1W | 01 JUL | 2030 | + 9 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 10 | 637.4 | 2.91 | 0.41 | 1.60 | T | 0.47 | 0.47 |
| 19 | 668.2 | 3.09 | 0.41 | 1.68 | T | 0.45 | 0.52 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM03B | 60 58.5N | 151 7.8W | 01 JUL | 2100 | + 9 | 32 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 628.9 | 2.21 | 0.59 | 0.85 | 0.15 | 0.25 | T |
| 10 | 622.6 | 1.81 | 0.49 | 0.87 | T | 0.23 | T |
| 26 | 665.3 | 2.46 | 0.47 | 1.26 | T | 0.34 | 0.27 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM03C | 60 55.6N | 151 22.1W | 01 JUL | 1945 | + 9 | 44 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 10 | 642.8 | 5.51 | 0.58 | 3.03 | T | 0.64 | 0.77 |
| 20 | 659.2 | 5.94 | 0.70 | 3.07 | 0.22 | 0.65 | 0.65 |
| 40 | 685.7 | 6.25 | 0.65 | 3.13 | 0.24 | 0.72 | 0.69 |

CRUISE NUMBER
ACONA 245-77

LOCATION
COOK INLET

INCLUSIVE DATES
28 JUN-16 JUL 1977

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| PM03D | 60 50.3N | 151 33.6W | 01 JUL | 2330 | + 9 | 69 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 729.4 | 5.18 | 0.45 | 2.79 | T | 0.64 | 0.65 |
| 10 | 675.2 | 5.69 | 0.45 | 3.01 | T | 0.68 | 0.62 |
| 65 | 667.7 | 5.71 | 0.50 | 3.19 | T | 0.78 | 0.83 |

CRUISE NUMBER
RP-4-DI-78B-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC001 | 61 8.4N | 150 47.3W | 31 AUG | 1350 | + 9 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 352.2 | 0.43 | 0.50 | 0.17 | 0.18 | 0.07 | 0.06 |
| 23 | 351.4 | 0.45 | 0.42 | 0.19 | 0.16 | 0.07 | T |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC002 | 61 0.3N | 151 5.4W | 31 AUG | 1530 | + 9 | 40 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 5 | 442.4 | 1.94 | 0.36 | 1.09 | 0.12 | 0.28 | 0.37 |
| 30 | 465.4 | 2.93 | 0.43 | 1.84 | 0.11 | 0.48 | 0.90 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC003 | 61 1.8N | 150 56.7W | 31 AUG | 1610 | + 9 | 41 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 349.6 | 0.89 | 0.26 | 0.41 | T | T | T |
| 30 | 364.1 | 1.07 | 0.29 | 0.49 | 0.05 | 0.15 | 0.14 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC005 | 60 55.0N | 151 26.4W | 01 SEP | 1225 | + 9 | 55 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 412.1 | 2.09 | 0.40 | 1.28 | T | * | * |
| 30 | 483.9 | 2.22 | 0.44 | 1.30 | 0.11 | * | 0.33 |

CRUISE NUMBER
RP-4-DI-78B-11

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC006 60 55.6N 151 4.5W 31 AUG 1710 + 9 29

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

3 482.4 1.95 0.37 1.02 T 0.23 0.29
20 481.8 2.01 0.51 1.08 0.12 0.60 0.36

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC008 60 46.4N 151 23.0W 01 SEP 1500 + 9 23

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

3 329.4 0.81 0.71 0.41 0.14 T T
10 338.1 0.94 1.23 0.43 0.25 0.14 *

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC009 60 48.2N 151 40.0W 01 SEP 1410 + 9 50

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

3 659.3 5.21 0.52 3.60 0.06 T T
30 692.0 5.47 0.51 4.45 0.11 0.52 1.10

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC09A 60 52.1N 151 30.5W 01 SEP 1315 + 9 55

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

3 523.7 3.18 0.48 2.04 T T T
30 535.7 3.12 0.47 0.81 0.09 0.43 0.64

CRUISE NUMBER
RP-4-DI-788-II

LOCATION
COOK INLET

INCLUSIVE DATES
28 AUG-06 SEP 1978

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH | |
|---------|----------|-----------|--------|---------|---------|--------------|----------|
| UC010 | 60 41.3N | 151 40.8W | 01 SEP | 1715 | + 9 | 23 | |
| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PRGPENE | ISO-BUTANE | N-BUTANE |
| 3 | 469.1 | 1.96 | 0.88 | 1.17 | 0.24 | 0.23 | 0.36 |
| 10 | 457.1 | 1.64 | 1.00 | 1.00 | 0.25 | 0.21 | 0.31 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC001 | 60 57.2N | 151 8.5W | 14 MAY | 1530 | + 9 | 42 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 1583.6 | 0.23 | 0.52 | T | T | T | T |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC002 | 60 56.8N | 151 18.3W | 14 MAY | 1630 | + 9 | 26 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 529.8 | 0.46 | 0.22 | 0.12 | T | T | * |
| 15 | 1509.0 | 1.16 | 0.55 | 0.50 | 0.12 | 0.12 | 0.23 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC003 | 60 56.7N | 151 26.9W | 14 MAY | 1730 | + 9 | 26 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 7 | 2637.0 | 10.79 | 0.25 | 4.76 | 0.07 | 0.99 | 1.23 |
| 20 | 2642.4 | 11.52 | 0.22 | 4.84 | T | 1.03 | 1.18 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC004 | 60 53.1N | 151 35.5W | 17 MAY | 1525 | + 9 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 4085.9 | 19.37 | 0.27 | 8.58 | T | 0.99 | 1.22 |
| 13 | 4051.6 | 21.34 | 0.27 | 9.94 | T | 1.21 | 1.63 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

STATION LATITUDE LONGITUDE DATE TIME GMT BGTOM DEPTH
UC005 60 53.8N 151 29.2W 17 MAY 1445 + 9 61

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

1 1996.2 2.32 * 0.74 T 0.30 0.17
38 2016.4 2.73 0.24 0.98 T 0.36 0.16

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC008 60 48.3N 151 32.1W 14 MAY 1330 + 9 25

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

0 2004.5 1.71 0.94 * T * *
20 1989.4 1.66 0.28 0.48 T 0.17 0.22

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC009 60 47.4N 151 35.4W 17 MAY 1330 + 9 78

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

3 2396.4 5.28 1.66 2.14 * 0.70 0.45
45 2560.4 4.87 * 2.05 T 0.50 0.41

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
UC010 60 50.3N 151 39.5W 17 MAY 1555 + 9 15

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

9 2328.7 4.02 * 1.05 T 0.33 *

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC10A | 60 48.8N | 151 43.3W | 17 MAY | 1620 | + 9 | 7 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 2290.9 | 5.15 | 0.27 | 1.77 | T | 0.59 | 0.37 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC011 | 60 48.0N | 151 42.7W | 17 MAY | 1725 | + 9 | 13 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 2481.6 | 19.00 | * | 11.18 | T | 1.83 | 2.83 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC11A | 60 47.3N | 151 43.0W | 17 MAY | 1755 | + 9 | 8 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 2378.5 | 15.34 | 0.64 | 8.58 | * | 1.60 | 2.55 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC012 | 60 45.8N | 151 40.3W | 14 MAY | 1900 | + 9 | 28 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 5 | 2555.8 | 5.00 | 0.24 | 1.66 | 0.05 | 0.53 | 0.42 |
| 20 | 2932.4 | 3.35 | 0.33 | 1.06 | 0.07 | 0.37 | 0.37 |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC12A | 60 45.5N | 151 40.4W | 17 MAY | 1655 | + 9 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 2552.2 | 16.99 | * | 9.27 | T | 1.67 | 2.34 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC013 | 60 42.4N | 151 39.6W | 17 MAY | 1840 | + 9 | 17 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 7 | 2227.6 | 5.26 | 0.14 | 2.09 | T | 0.58 | 0.34 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC014 | 60 42.3N | 151 32.8W | 17 MAY | 1920 | + 9 | 28 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 3 | 1976.1 | 2.75 | 0.37 | 1.05 | T | 0.28 | 0.34 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC015 | 60 32.0N | 151 30.3W | 15 MAY | 1345 | + 9 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 15 | 689.3 | 0.31 | 0.43 | 0.07 | 0.17 | 0.10 | T |

CRUISE NUMBER
RP-4-DI-79A-II

LOCATION
COOK INLET

INCLUSIVE DATES
07 MAY-20 MAY 1979

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC016 | 60 32.6N | 151 40.8W | 15 MAY | 1435 | + 9 | 45 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 2 | 2809.6 | 4.16 | 0.37 | 1.95 | 0.10 | 0.41 | 0.54 |
| 44 | 2872.9 | 3.80 | 0.31 | 1.64 | 0.10 | 0.42 | 0.57 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| UC017 | 60 36.3N | 151 45.5W | 15 MAY | 1530 | + 9 | 21 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 2 | 2845.2 | 3.65 | 0.39 | 1.57 | 0.16 | 0.38 | 0.52 |
| 10 | 3063.4 | 3.86 | 0.40 | 1.61 | 0.12 | 0.55 | 0.52 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N12C | 64 28.6N | 166 1.0W | 14 SEP | 0830 | +10 | 30 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 21 | 504.2 | 3.44 | 2.31 | 1.16 | 0.56 | 0.27 | 0.24 |
| 26 | 433.6 | 3.10 | 2.16 | 1.02 | 0.53 | 0.19 | 0.23 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N1018 | 64 20.2N | 165 30.9W | 10 SEP | 2135 | +10 | 23 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 1 | 168.7 | 0.63 | 1.11 | 0.11 | 0.35 | T | T |
| 10 | 645.9 | 4.25 | 2.75 | 1.25 | 0.54 | 0.23 | 0.24 |
| 19 | 433.8 | 3.41 | 2.78 | 1.02 | 0.52 | * | 0.12 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N2018 | 64 20.2N | 165 30.0W | 12 SEP | 2240 | +10 | 24 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 16 | 582.3 | 4.58 | 2.44 | 1.27 | 0.55 | 0.30 | 0.25 |
| 21 | 596.5 | 4.42 | 1.99 | 1.33 | 0.50 | 0.28 | 0.22 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018A 64 19.9N 165 17.4W 12 SEP 2335 +10 26

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

18 713.9 4.07 3.02 1.26 0.52 0.32 0.33
23 715.5 3.97 2.90 1.23 0.46 0.26 0.25

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018B 64 25.1N 165 28.5W 13 SEP 0020 +10 27

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

15 634.3 1.96 2.38 0.66 0.53 0.15 0.19
23 672.9 2.38 3.02 0.79 0.52 0.10 T

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018C 64 20.3N 165 42.2W 13 SEP 0115 +10 24

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

17 337.1 4.51 1.42 1.55 0.55 0.34 0.34
21 352.5 4.71 1.36 1.62 0.52 0.32 0.34

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018D 64 15.2N 165 30.9W 13 SEP 0225 +10 20

DEPTH METHANE ETHANE ETHENE PROPANE PROPENE ISO-BUTANE N-BUTANE

12 246.0 2.49 1.23 0.95 0.44 0.21 0.25
18 218.5 2.02 1.36 0.78 0.51 0.13 0.23

CRUISE NUMBER
RP-4-DI-768-IV

LOCATION
NGRTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018E | 64 22.0N | 165 1.2W | 13 SEP | 0410 | +10 | 33 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 25 | 445.5 | 1.72 | 2.46 | 0.54 | 0.52 | T | 0.14 |
| 30 | 498.4 | 1.91 | 2.46 | 0.65 | 0.53 | T | 0.17 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N18F1 | 64 8.0N | 165 30.5W | 13 SEP | 0605 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 0 | 155.9 | 0.33 | 1.09 | 0.18 | 0.36 | T | T |
| 11 | 363.4 | 5.69 | 1.25 | 1.92 | 0.36 | 0.29 | 0.37 |
| 17 | 459.2 | 8.34 | 1.28 | 2.86 | 0.37 | 0.43 | 0.51 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N18F2 | 64 8.0N | 165 30.5W | 23 SEP | 0045 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 12 | 319.2 | 3.57 | 1.20 | 1.16 | 0.46 | 0.25 | 0.25 |
| 17 | 340.9 | 4.20 | 1.27 | 1.45 | 0.46 | 0.31 | 0.35 |

CRUISE NUMBER
RP-4-DI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018G | 64 13.1N | 165 29.3W | 23 SEP | 0135 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 12 | 386.8 | 5.31 | 1.14 | 1.83 | 0.44 | 0.40 | 0.36 |
| 18 | 390.5 | 5.37 | 1.16 | 1.85 | 0.45 | 0.43 | 0.38 |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018H | 64 7.5N | 165 41.7W | 23 SEP | 0230 | +10 | 20 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 13 | 139.6 | 0.51 | 1.30 | 0.15 | 0.54 | T | T |
| 19 | 147.0 | 0.46 | 1.31 | 0.16 | 0.44 | T | T |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018I | 64 2.8N | 165 30.2W | 23 SEP | 0320 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 12 | 174.4 | 0.41 | 1.12 | 0.16 | 0.38 | * | * |
| 18 | 176.7 | 0.42 | 1.19 | 0.19 | 0.61 | T | T |

| STATION | LATITUDE | LONGITUDE | DATE | TIME | GMT | BOTTOM DEPTH |
|---------|----------|-----------|--------|------|-----|--------------|
| N018J | 64 7.5N | 165 18.7W | 23 SEP | 0415 | +10 | 18 |

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 12 | 258.2 | 1.72 | 1.20 | 0.47 | 0.25 | 0.09 | 0.14 |
| 17 | 267.2 | 1.86 | 1.24 | 0.49 | 0.30 | 0.13 | T |

CRUISE NUMBER
RP-4-LI-76B-IV

LOCATION
NORTON SOUND

INCLUSIVE DATES
08 SEP-24 SEP 1976

STATION LATITUDE LONGITUDE DATE TIME GMT BOTTOM DEPTH
N018K 64 13.3N 165 21.3W 23 SEP 0520 +10 18

| DEPTH | METHANE | ETHANE | ETHENE | PROPANE | PROPENE | ISO-BUTANE | N-BUTANE |
|-------|---------|--------|--------|---------|---------|------------|----------|
| 12 | 232.4 | 2.28 | 1.14 | 0.77 | 0.36 | T | T |
| 17 | 230.4 | 2.32 | 1.33 | 0.76 | 0.41 | 0.16 | 0.20 |