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Technical Report No. 117

**PHYTOPLANKTON DATA FROM THE CHUKCHI SEA
1959 - 1962**

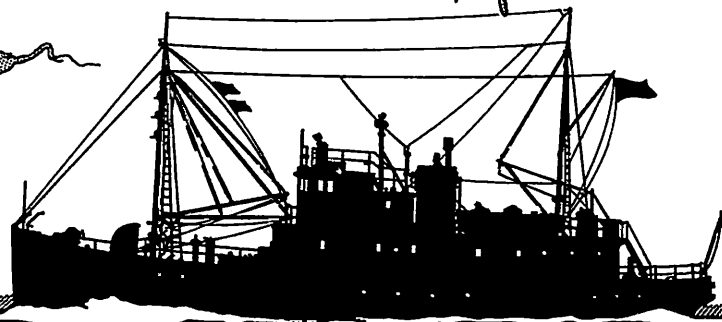
by

William A. Dawson

U.S. Atomic Energy Commission
Division of Biology and Medicine
Contract AT-45-1-540
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Office of Naval Research
Contract Nonr-477(10)
Project NR 083 012
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Reference M65-7
March 1965



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E R R A T A

The digit missing from station numbers on the following pages is a zero, and the station numbers should read as follows:

p. A-1	BB236-002	(not 0 2)
p. A-1	BB236-003	(not 0 3)
p. A-12	BB236-104	(not 1 4)
p. A-12	BB236-105	(not 1 5)
p. A-13	BB236-106	(not 1 6)
p. A-13	BB236-107	(not 1 7)
p. A-67	31968-004	(not 0 4)
p. A-86	31968-102	(not 1 2)
p. A-86	31968-103	(not 1 3)
p. A-87	31968-109	(not 1 9)

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- p. A-15, station BB268-002: ASSIM and TECH values should be listed at depth 3.0 m, not at 2.5 m.
- p. A-15, station BB268-003: ASSIM and TECH values should be listed at depth 5.0 m, not at 4.5 m.
- p. A-20, station BB268-021: a TECH entry of 1 should be listed for the ASSIM value at depth 11.0 m.
- p. A-22, station BB268-025: the correct longitude is 170° 38' W, not 169° 38' W.
- p. A-29, station BB268-045: at 5.0 m depth, the correct A/GA value is 2.39, not 2.3.
- p. A-41, station BB268-073: the correct longitude is 164° 28' W, not 165° 31' W.
- p. A-60, station SU420-009: the correct date is 7/21/61, not 4/21/61.
- p. A-67, station 31968-010: the correct date is 10/05/62, not 10/06/62.
- Cover, face page, page 10 and item 8b of the Document Control Data sheet: the Project number under Contract Nonr-477(37) should read NR 083 012 (not RR 004-03-01).

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William A. Dawson
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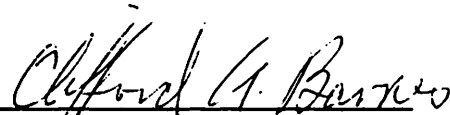
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CLIFFORD A. BARNES
Acting Chairman

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ABSTRACT

This report contains tabulations of the measurements of phytoplankton standing crops by plant pigment analysis, and measurements of primary productivity carried out on five cruises to the Chukchi Sea, together with corresponding measurements of temperature, salinity and incident solar radiation. Over-all aspects of the distribution and abundance of phytoplankton in the Chukchi Sea are discussed.

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INTRODUCTION

The phytoplankton data presented here have been obtained on five cruises to the Chukchi Sea by members of the Department of Oceanography. Cruises BB 236 and BB 268 were carried out by the Department's R/V Brown Bear in August 1959 and August 1960 and were attempts to collect oceanographic data as completely as possible over the whole region, roughly between the vicinity of Bering Strait, the northward limit of ice-free water, the Alaskan coast and the International Date Line. Physical and chemical data obtained on these cruises are presented by Fleming and Staff (1961). The other three cruises were subsequent attempts by the author to measure the phytoplankton at other times of the ice-free season: cruise SU 420 in June-July 1961, on board the U.S. Coast and Geodetic Survey ship Surveyor, cruise CH 562 in May 1962, using weasels from the Atomic Energy Commission's Chariot Site camp at Cape Thompson, and cruise 31968 in October 1962, on board the U.S. Coast Guard ice-breaker Northwind. It was hoped that it would be possible to combine the results of all the cruises into one picture of the seasonal variation of the phytoplankton in the Chukchi Sea, even though no more than two of the cruises took place in any one year. The stations where biological samples were taken are presented in Figs. 1-5.

This report is primarily a presentation of the data, but some remarks on the chlorophyll-a observations will be made which supplement the maps of distribution (Figs. 6-8): Since phytoplankton work was not the primary mission of any of the cruises, the choice of location, time and number of stations was often severely restricted. This resulted in a rather uneven geographic spread of stations from one cruise to the next. However, when the average of all pigment data from each cruise is obtained, a seasonal trend does appear (Table 1), apparently because the seasonal range is so large.

Table 1. Mean values of chlorophyll-a from each cruise, and range of concentration

Cruise (No. of Stations)	Month	Mean Chloro- phyll-a, mg/m ²	Range	Standard Deviation	Range/s
CH 562 (7)	May	2.71	0.6-6.9	2.195	2.73
SU 420 (11)	July	73	6-398	117.8	3.73
BB 236 (27)	August 1959	40	11-173	34.3	7.65
BB 268 (82)	August 1960	54	8-609	74.3	8.10
31968 (53)	October	28	4-95	19.61	4.64

The lowest mean value was found in May, when the ice cover had not yet begun to thin and break up. The highest mean value was in July, when the sea had been ice-free for at least a couple of weeks. August means were lower than those for July; for October, when ice was actively forming and daylight was minimal, the mean was lower than for August. Cruises BB 236 and BB 268 permit comparison of the phytoplankton crop present in these waters during August from one year to the next. That such lumped data should not be generalized too much can be seen by examining the ranges of chlorophyll concentrations found on each cruise.

An indication of the representativeness of a single station may be obtained from the results of the studies of diurnal variation in phytoplankton. Such studies were carried out on three occasions (BB 236, stations 071 to 074, ship at anchor; BB 236, stations 104 to 107, ship adrift; and BB 268, stations 115 to 122, ship adrift) and consist of stations repeated at close intervals around the clock in approximately the same place. The diurnal variation thus found was fairly small, as can be seen from the following example (Table 2), and the stations in each study may be considered replications of the entire sampling procedure.

Table 2. Diurnal variation of chlorophyll-a content (mg/m^2) on drifting station, BB 268 - 115 to 122. Eleven sampling times.

Mean	Range	Standard Deviation (s)	Range/s
42.2	32-54	6.36	3.46

Figures 6-8 show the distribution of chlorophyll-a per unit of sea surface for the cruises when sufficient stations were occupied to draw maps. Figures 6 and 7, representing the distribution in August of two successive years, suggest that there is a consistency in the pattern with high levels of pigment in western Bering Strait, and a gradual increase in chlorophyll with increasing distance offshore from Alaska. This offshore increase in 1959 seems to be largely a function of greater depth owing to a moderately uniform horizontal and vertical distribution of chlorophyll content per unit volume in 1959. Only in Bering Strait was the chlorophyll content per unit volume very much higher than that on the other stations (in 1960 as well as 1959). The very high values of 5-30 mg/m^3 result in more than 100 (up to 600) mg/m^2 chlorophyll-a that are met in the region of the Department's Columbia River study only in summer during the height of the upwelling season close inshore (Anderson, 1964). The large amount of chlorophyll per unit surface on offshore stations in August 1960 is only in part due to the greater depth and a slight increase of chlorophyll concentration per unit volume seaward, if at all present. The main reason is a chlorophyll maximum in the lower part of the euphotic zone that is much more pronounced offshore than in the shallower water near the coast. High values in July are found for the same reason.

In October (Fig. 8) the amounts of chlorophyll per unit surface are by and large smaller than the summer values, as might have been expected so late in the season. However, values of 2-3 mg/m³ chlorophyll-a, as found off the Siberian coast in water cooled to less than -1 C, are observed in offshore waters of Washington and Oregon only during the height of the spring bloom. Concomitant values of 50 mg/m² chlorophyll are never observed off Washington. Thus, the chlorophyll content of the Chukchi Sea in October 1962 was surprisingly high in places, but the over-all pattern appeared to be less regular than that during summer, and might not be the same during another year in the same season.

METHODS

General Remarks on Sampling

Sampling Depths

The choice of depths at each station was governed by the thickness of the euphotic zone, assumed to reach to the depth where the light intensity was 1% of that at the surface. The sampling depths were chosen to be where the light intensity in the water was estimated to be 100%, 50%, 10% and 1% of the surface light intensity. When the 1% depth was greater than the depth of the seabed, the deepest sample was taken near the bottom and its equivalent light-depth was calculated later. Vertical extinction (or attenuation) coefficients were estimated with a Secchi disk of 30 cm diameter, according to the formula $\kappa = 1.7/D$ where D is the depth in meters of the disappearance of the Secchi disk. For stations occupied in the dark, the value from the most recent daylight station had to be used.

A check on the validity of the vertical attenuation coefficient derived from Secchi disk measurements is provided by 14 hydrophotometer lowerings on cruise BB 268, paired with Secchi disk lowerings. The relation appears to be fairly good (Fig. 9). The paired hydrophotometer light sensors were equipped with a green filter made up of a Corning 370 yellow and a Corning 472 blue filter. The combination had a half bandwidth of 500 angstroms and transmitted from 4800 to 6200 angstroms, with its peak at 5200 angstroms. These filters were covered with a flat opal glass cosine collector.

This method of estimating the thickness of the euphotic layer is based on the assumption that the vertical attenuation coefficient is constant throughout the whole euphotic layer. The variations in the vertical distribution of chlorophyll on many stations of BB 268 show that this is not always the case. Where the chlorophyll distribution varies sharply with depth, however, the pattern is one of an increase with depth. If the standing stock of phytoplankton has at least some effect on turbidity, the method used will lead to an overestimation of euphotic zone thickness, by an unknown amount.

On cruise CH 562 the 120-cm ice thickness and 45-cm snow cover made it seem highly unlikely that there was any light at all underneath, and hence no euphotic zone. This assumption was confirmed later by the negligible photosynthetic rates measured in situ. Accordingly, the sampling depths were chosen arbitrarily so as to span the entire water column. Likewise, when on cruise 31968 it proved impossible to carry out productivity measurements, sampling depths were also spaced over the whole water column. However, on cruise 31968, Secchi disk measurements were made on all daylight stations.

Sample Collection and Filtration

The surface sample was taken in a polyethylene bucket. The deeper samples were collected with polyvinyl chloride closing samplers of the van Dorn type, which were drained into 4.2 liter polyethylene bottles for subsampling and filtration. The polyethylene bottles were rinsed twice with sample water before they were filled. On cruises BB 236 and BB 268, usually three 3-liter samplers were used in series. On cruise SU 420, a 3-liter van Dorn bottle was sent twice to each depth sampled. On cruise CH 562, a 3-liter Scott-Richards type of van Dorn bottle (equipped with a reversing thermometer frame) was lowered on a handline. The thermometers were held ten minutes at depth before tripping, and read after a few minutes wait for stabilization of the stem temperatures. The samplers were then sent again to the same depth to completely fill the polyethylene bottles. On cruise 31968, 5-liter Scott-Richards bottles were used in series, with one cast per station.

All of the samples, both for plant pigments and for productivity from cruises BB 236, BB 268, SU 420 and CH 562, were suction-filtered but the filtration pressure was not monitored. A Hyvac laboratory vacuum pump installed aboard the Brown Bear was used on cruises BB 236 and BB 268. A Millipore diaphragm pump was used on cruise SU 420. A tire pump with the leather and the ball valve reversed was used on cruise CH 562. The filtration pressure therefore varied from around the vapor pressure of water for cruises BB 268 and BB 236 to about two-thirds of an atmosphere for cruise CH 562. Positive pressure filtration on cruise 31968 was carried out at an overpressure of about three-fifths of an atmosphere.

Sampling (Messenger) Times

The times entered in the station listings are in most instances valid to within a quarter hour only, because the data presented here are from samples obtained with more than one cast. Every effort was made to have the biological sampling as close as possible in time to the hydrographic and nutrient observations from Nansen bottle casts, and the van Dorn bottle casts usually began as soon as the wire became available after the former (cruises BB 236, BB 268 and 31968). On cruises SU 420 and CH 562, there were no fewer than eight van Dorn bottle lowerings on each station, two to each depth, and the whole sampling operation took from thirty to sixty minutes. Messenger times for stations on these cruises represent the midpoint of this period.

Temperature and Salinity

For cruises BB 236, BB 268, and 31968, physical oceanographic data are presented in this report for only those stations at which phytoplankton was sampled. For the first two of these cruises, the values have been transcribed from Fleming and Staff (1961). Their collection and treatment have been described therein. The salinity values for depths at which biological, but not physical, oceanographic sampling was done have been hand-interpolated from the adjacent depths. These values may be identified in the tables by the absence of a matching temperature value.

At three stations on BB 236 (A71, A72, A73) and five stations on BB 268 (215, 216, 316, 221, and 238) there was no physical oceanographic sampling. These stations constitute parts of diurnal variation studies, either at the same location or while the vessel drifted. The physical data presented here have either been transferred from the nearest physical oceanographic station in space and time, or interpolated from the data of two adjacent physical stations. They should not be regarded as additions to the physical oceanographic data tabulations, in which these interpolated stations do not appear.

For cruise SU 420, the temperatures are not valid to more than 0.05°C as they have been derived from a bathythermograph trace taken on station. A salinity bottle was filled from each depth sampled and the determinations were carried out by Department personnel in Seattle.

On cruise CH 562, the temperatures were measured by two protected reversing thermometers on a frame on the Scott-Richards bottle used in the biological sampling. Care was taken that the salinity samples did not freeze after collection or on the trip back. Salinity determinations were made in Seattle.

William H. Gladfelter, U.S. Naval Oceanographic Office, was in charge of the oceanographic work done on cruise 31968. About half of the salinities were determined on a conductivity bridge on board the U.S.C. G.C. Northwind and the remainder by the Department of Oceanography personnel in Seattle. Computation and machine tabulation of the data were performed at the Department. Salinities and temperatures presented here with the cruise 31968 data have been transcribed from the tabulation. The complete data have been deposited with the National Oceanographic Data Center, Washington, D.C.

Plant Pigments

Water from the 4.2-liter polyethylene bottles was taken for rinsing and filling productivity incubation bottles, and for a formalin-preserved phytoplankton sample. The sample size for plant pigment measurement was 2 liters on cruise BB 236 and 3 liters on the others, measured to within 0.01 liter. Only if the turbidity of the water was great, as indicated by the Secchi disk measurement, was the volume reduced to prevent clogging of the filter. The procedure followed that of Richards with Thompson (1952), as modified by Creitz and Richards (1955).

Forty-seven mm Millipore ^R * filters, type HA (0.45 μ pore size), were used. Filtration was usually begun within 15 minutes of the sample collection time, and completed within 2 hours; most of the samples were filtered within one hour of collection. They were never permitted to stand in full sunlight, or to warm up. After filtration, the filters were removed, folded, blotted, trimmed, and placed in labelled envelopes for storage in a darkened desiccator. No sample waited more than two weeks for acetone-extraction and spectrophotometric analysis.

With the exception of the samples from BB 236, the 750 mμ absorption value was subtracted from the readings at other wavelengths before pigment concentrations were calculated. Only about one sample in ten showed any turbidity at all, and in no case was the reading at 750 mμ as high as five or ten per cent of the absorption at 665 mμ. Spectrophotometer readings, extract volume, sample size and station location data were entered on lab sheets, punched on IBM cards and pigment concentrations were calculated and tabulated in a Fortran program on the University's IBM 709 computer. A value for the chlorophyll-a in the euphotic zone, obtained by numerical integration of all point-values down to the 1% light depth of a station, is reported as accumulated chlorophyll-a (ACA in the data tabulation), in mg/m² of sea surface:

$$ACA = \frac{CHL-A_1 + CHL-A_2}{2} \cdot (Z_2 - Z_1) + \frac{CHL-A_2 + CHL-A_3}{2} \cdot (Z_3 - Z_2) \dots$$

where CHL-A₁ is the surface chlorophyll value, CHL-A₂ is the next value below, and so on, and Z₁, Z₂ . . . are the respective sampling depths.

Primary Productivity

General Remarks

The rate of photosynthetic carbon fixation (assimilation) was measured in several ways. All are variations of the carbon-14 method developed by Steemann Nielsen (1952).

On cruises BB 236 and BB 268, 2.5 μc of carbon-14 (sodium carbonate in redistilled water, pH 9.0) from sterilized ampoules were added to 250 ml Pyrex reagent bottles. Bottle size was reduced to 125 ml and 1 μc per sample was used on cruise SU 420. On cruise CH 562, 0.5 μc was added to 125 ml bottles. For filtration, 25 mm Millipore filters, type HA (0.45 μ pore size) were used on cruises BB 236 and BB 268; type pH filters (0.30 μ pore size) were employed on subsequent cruises. There was a dark bottle for each light bottle.

To remove inorganic carbon-14, the filters from cruises BB 236 and BB 268 were rinsed as soon as filtration was completed with 10 ml of

* Registered trademark, Millipore Filter Corp., Bedford, Massachusetts.

0.001 N HCl followed by 10 ml of filtered seawater. On subsequent cruises, filters were rinsed with filtered seawater only and exposed, dry, to fuming HCl for ten minutes 24 hours before counting.

Cruise BB 236 sample filters were counted on a Nuclear-Chicago model D-47 windowless gas flow counter and 161-A scaler. Filters from the other cruises were counted on the same apparatus, with the addition of a micromil window and model C-110 automatic sampler changer to the counter, and a C-111B printing timer. Each light-bottle sample filter was counted to a permissible variation level of 4.6%; dark-bottle filters were counted with a permissible variation of 7% or 8%.

Background was monitored twice daily during the counting process and although dark-bottle counts were subtracted from light-bottle counts, thereby correcting the determination for background (as well as for dark carbon uptake and inorganic carbon exchange), an independent check on the operation of the counting gear was provided by the background log. We believe that the over-all precision of the determination is $\pm 10\%$ (Strickland and Parsons, 1960).

The filters from BB 268 were stored in the desiccator in manila envelopes. After the cruise it was found that 5% to 15% of the radio-active material from the filter face had been transferred to the inner surface of the storage envelope. This activity was therefore counted too, and added to the filter counts.

Computation of carbon uptake rates per unit volume of seawater was performed by a Fortran program which accepted as input the raw counts, incubation times, a salinity determination from which a calculation of available inorganic carbon was made, and the coincidence count equation of the Geiger chamber used. An isotope correction factor of 1.05 was included. The output consisted of carbon assimilation rates per unit volume of seawater per hour of incubation. The program ran on the University's IBM 709 computer and the output was printed on cards, one for each depth sampled and one for each light-dark bottle pair in those cases where the field sample was subsampled more than once for productivity measurements. This deck was then combined with the corresponding output deck of cards from the programmed computation of plant pigment analysis. A third deck containing the pertinent physical oceanographic data was made up and the output data of all three were printed on a fourth deck which was used for the IBM 407 printout presented in the Appendix. A later refinement combined the plant pigment and productivity programs, thereby eliminating one deck from this rather cumbersome procedure.

A value for photosynthetic capacity of the entire euphotic zone was obtained by numerically integrating the data from TECH 1 measurements of a station, using the same formula as in the computation of accumulated chlorophyll-a. There is no correction for the light attenuation in the euphotic zone, and the values ought to be used only for comparison between cruises BB 236 and BB 268.

Incubation Techniques

Measurements in situ (TECH 5): On cruise BB 268 and on cruise CH 562, productivity bottles were incubated at the depths from which the samples were collected (measurement in situ). The data are identified in the Appendix by the number 5 in the column headed TECH. The insolation during the incubation period is listed in the station heading as the value, LY/HR.

Incubator Measurements with Natural Light (TECH 5 and 6): On cruise SU 420, the productivity samples were incubated by exposure to daylight in a washtub on deck that was cooled by running surface seawater. Translucent containers whose walls acted as neutral-density filters attenuating light 50%, 90% and 99% were constructed from polyethylene freezer boxes, opaque Saran plastic window screening and waterproof butcher paper. Their attenuation factors were measured by comparing the readings of a photographic exposure meter inside the box with its reading outside, under both natural and artificial (fluorescent) light. The attenuation values used were achieved by repeated trials of different combinations of wrappings around the boxes. That all of the materials approximated to neutral grey at least as well as Corning grey filters was verified by measuring their absorption spectra in a spectrophotometer, although only the window screening was a true grey (Withrow and Withrow, 1956). In these boxes were placed the samples from the depths where the light was 50%, 10% and 1% of surface light, respectively. Measurements made in this manner are listed as TECH 5 as well.

On cruises BB 236 and BB 268, a sample from the surface was routinely incubated on top of the superstructure in a glass-roofed aquarium tank flushed with surface seawater. These measurements are given the TECH number 6. Where their incubation times and consequent insolation differed from concurrent in situ measurements on the same station a separate value of insolation (LY/HR) is presented.

On pages A-100 and A-101 of the Appendix is a listing of the actual hours when productivity samples were incubated in daylight.

Incubator Measurements with Fluorescent Light (TECH 1): A laboratory tank flushed with surface seawater and illuminated at a constant level of 800 foot-candles with a bank of General Electric "Cool-White" fluorescent lamps was also used on cruises BB 236 and BB 268, without neutral-density filters (TECH 1). In the absence of any rigorous measurement of the response of the indigenous flora to different levels of illumination, the TECH 1 data are not immediately relatable to the in situ data. They provide, however, the widest and densest geographic coverage of any of the productivity measurements and are comparable inter se.

Other Measurements (TECH 7 and 8): TECH 7 and 8 designate permutations of the in situ incubation procedure (Sorokin, 1960). Technique 7 samples were all taken from one sampler, at one depth and incubated at all light-depths, thereby measuring the response of one population to differing light intensities. Technique 8 refers to the incubation of a sample from each depth at one light intensity, that of the surface.

On all stations of all cruises a sample was collected from a given depth only once; the repetitions of the sampling depths in the station listing represent subsamples receiving different incubation treatments. Repetitions of the listings of temperature, salinity and plant pigments may here be regarded as artifacts of the transcription process.

Insolation

A continuous record of incident solar radiation was kept on all cruises. The instruments used recorded the intensity of solar radiation of all wave-lengths incident on a flat horizontal surface. On cruises BB 236 and BB 268, the measuring system consisted of a Kipp Zonen thermopile pyrhelimeter whose output was fed to a potentiometric recorder, as in the usual meteorological installation. On the other cruises recordings were made with a clock-driven Belfort portable solarimeter, geared for one drum-revolution per day. The Belfort's precision and accuracy were checked by installing it for two weeks beside the Eppley thermopile pyrhelimeter of the Atmospheric Sciences Department of this University, and later by running it beside the Kipp pyrhelimeter on the Brown Bear for three weeks. As a result of this comparison, we related hourly-mean rate values from the Belfort solarimeter to those of the thermopile instruments by applying a correction factor of 0.86 to the Belfort values. The regression equation derived was:

$$X_{(\text{Kipp})} = 0.862Y_{(\text{Belfort})} - 0.0001$$

This correction factor applies only to the actual instrument we used. Another Belfort instrument belonging to the Department, checked at the same time, turned out to require no calibration factor. The factor applies only to the hourly-mean rate values from the instrument. Instantaneous rates are more difficult to compare since the thermopile meters have response times of a fraction of a second, while the Belfort's response time is around two minutes.

The insolation data are presented here in rather more extensive form than is usual. The Chukchi Sea is a region of high and variable cloud cover which, in conjunction with the low solar altitudes, makes recourse to the usual reference-book values for solar radiation at the earth's surface an unreliable procedure. It is also a region from which measurements of solar radiation are scarce. Primary productivity was measured using techniques which, unfortunately, make intercomparison difficult even between two determinations on the same cruise, without some estimate of a "typical" hourly value for insolation to which the isolation prevailing during each measurement may be compared.

Table 3 presents mean values for solar radiation for each cruise. For a given time interval, a mean daily value was obtained by first totaling the insolation for each hour of the day and taking an individual mean based upon the number of days of record for that hour. Then these means for each hour were summed to give a mean daily value. "Hours of Daylight" were determined by counting from zero to zero on the record,

and the figure for langleys per hour was obtained by dividing the mean daily value by the mean hours of daylight.

Table 3. Mean values of incident solar radiation during the cruises

Dates and Cruise Number	Mean Langleys/Day	Hours of Daylight	Mean Langleys/Hour
3-13 May (CH 562)	450.2	19	23.7
13-25 July (SU 420)	350.2	22	15.9
1-15 August (BB 236, BB 268)	397.2	21	18.9
16-31 August (BB 236, BB 268)	284.3	18	15.8
7-25 October (31968)	33.4	8	4.2

The August data were split into two two-week intervals because of the change in day length over the whole month. The October data were too scanty to warrant this treatment.

The complete tabulation of the insolation record is presented in the Appendix, pages A-94 to A-99. The numbers in this tabulation are langleys, obtained by multiplying the hourly mean rate measurements by 60. To obtain langleys per minute, or insolation rates, they may be divided by 60. The October record is tabulated merely by hour. The others are tabulated by day and hour.

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CRUISE BB 236	George Johnston - Marine Aide Robert Owen - Marine Aide
BB 268	William Dawson - Research Instructor Mario Pamatmat - Marine Aide
SU 420	William Dawson - Research Instructor Captain Porter, officers and crew of the U.S. C.G.S.S. <u>Surveyor</u> OPR420-61

CRUISE CH 562 William Dawson - Research Instructor
 Charles Griswold - Marine Aide
 Harry Kalleberg, University of British Columbia
 Alec Peden, University of British Columbia
 Norman Wilimovsky, University of British Columbia

31968 William Dawson - Research Instructor
 William H. Gladfelter, U.S. Navy Oceanographic
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 Captain Martin, officers and crew of the U.S.
 C.G.C. Northwind, U.S.N.O.O. cruise 31968,
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Lawrence K. Coachman	-	Assistant Professor
Eugene E. Collias	-	Senior Oceanographer
Richard N. Cromoga	-	Cartographer
Donald R. Doyle	-	Senior Cartographer
James Edenso	-	Tabulator Operator
Ann Helander	-	Research Assistant
Linda Long	-	Laboratory Aide
John Piety	-	Research Instructor
Ralph Riley	-	Senior Laboratory Aide
Monique Rona	-	Programmer
William Ruff	-	Research Assistant
Thayer Schafer	-	Research Assistant
Darrellyn Semon	-	Assistant Oceanographer
Marsha Wallin	-	Key Puncher

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Note: An uncorrected proof set of the data tabulations of cruises BB 236 and BB 268 have been included in the compilation by Doty and Capurro (1961). They appear in that publication on pages 273-279, Part I; pages 474-477 and 481-494, Part II, and are discussed on page 613, Part II as "cruise codes W236 and W268." The recomputed, corrected tabulation presented here supersedes them completely.

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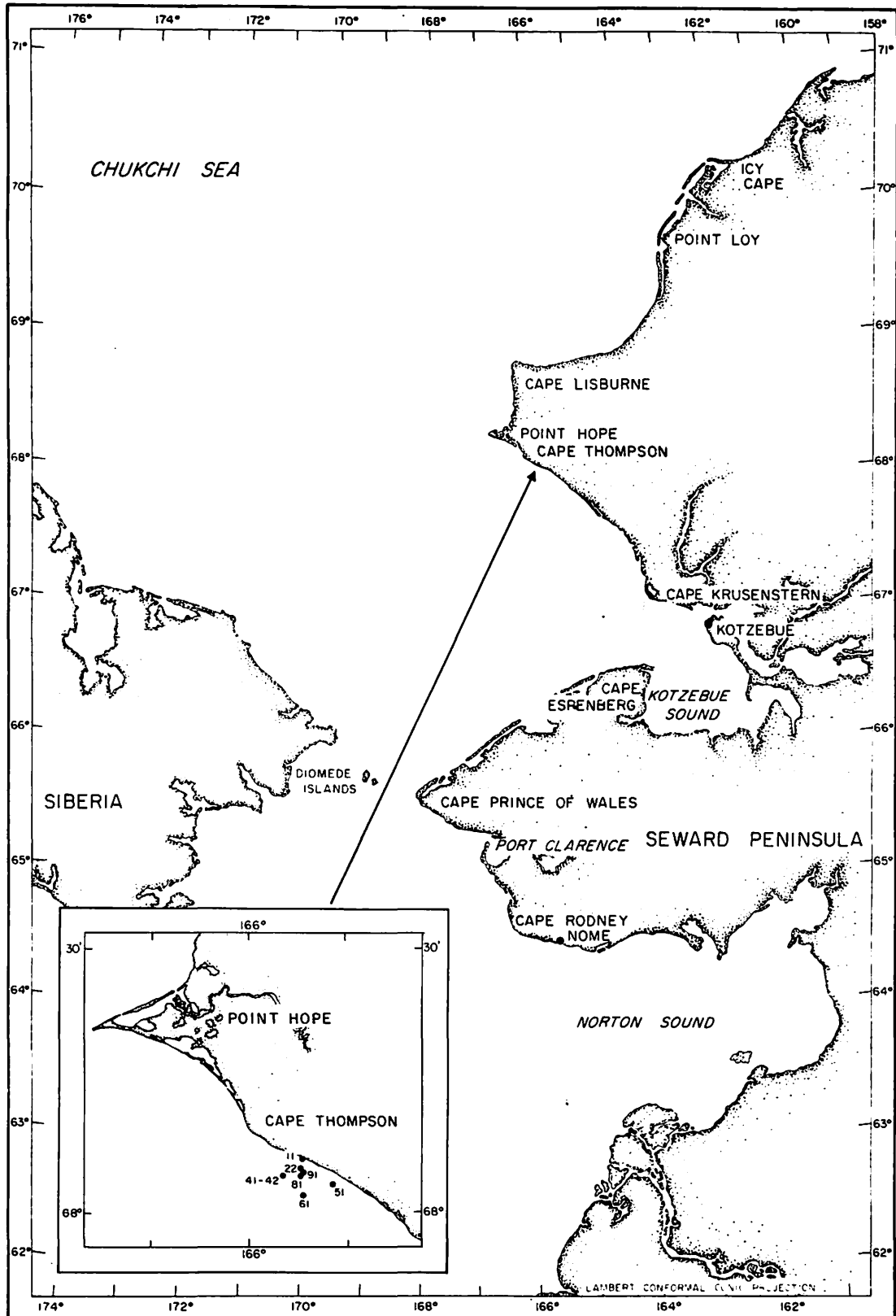


FIG 1. CRUISE CH 562, 5-MAY 1962. STATION LOCATIONS.

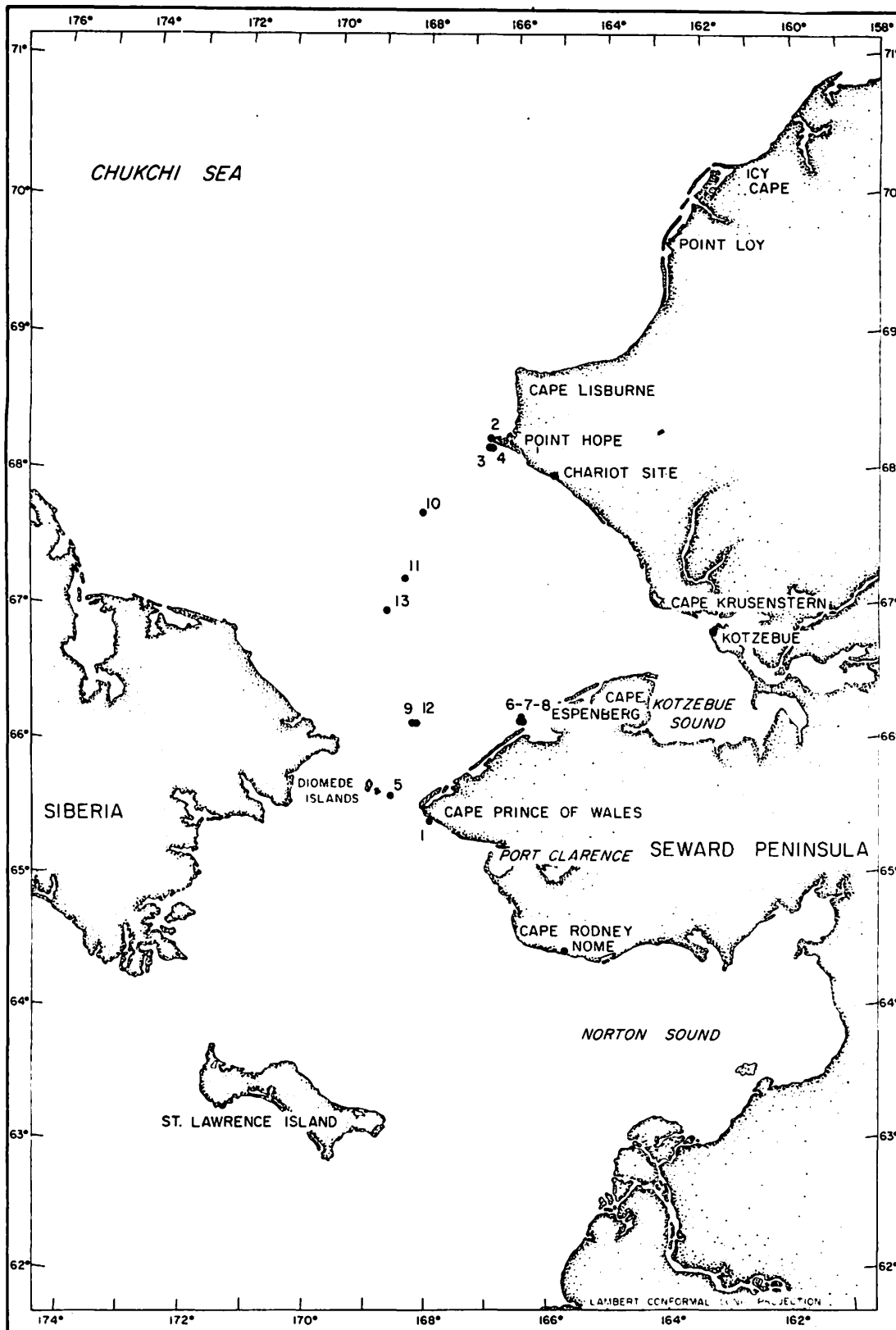


FIG 2. CRUISE SU 420 13-24 JULY 1961. STATION LOCATIONS.

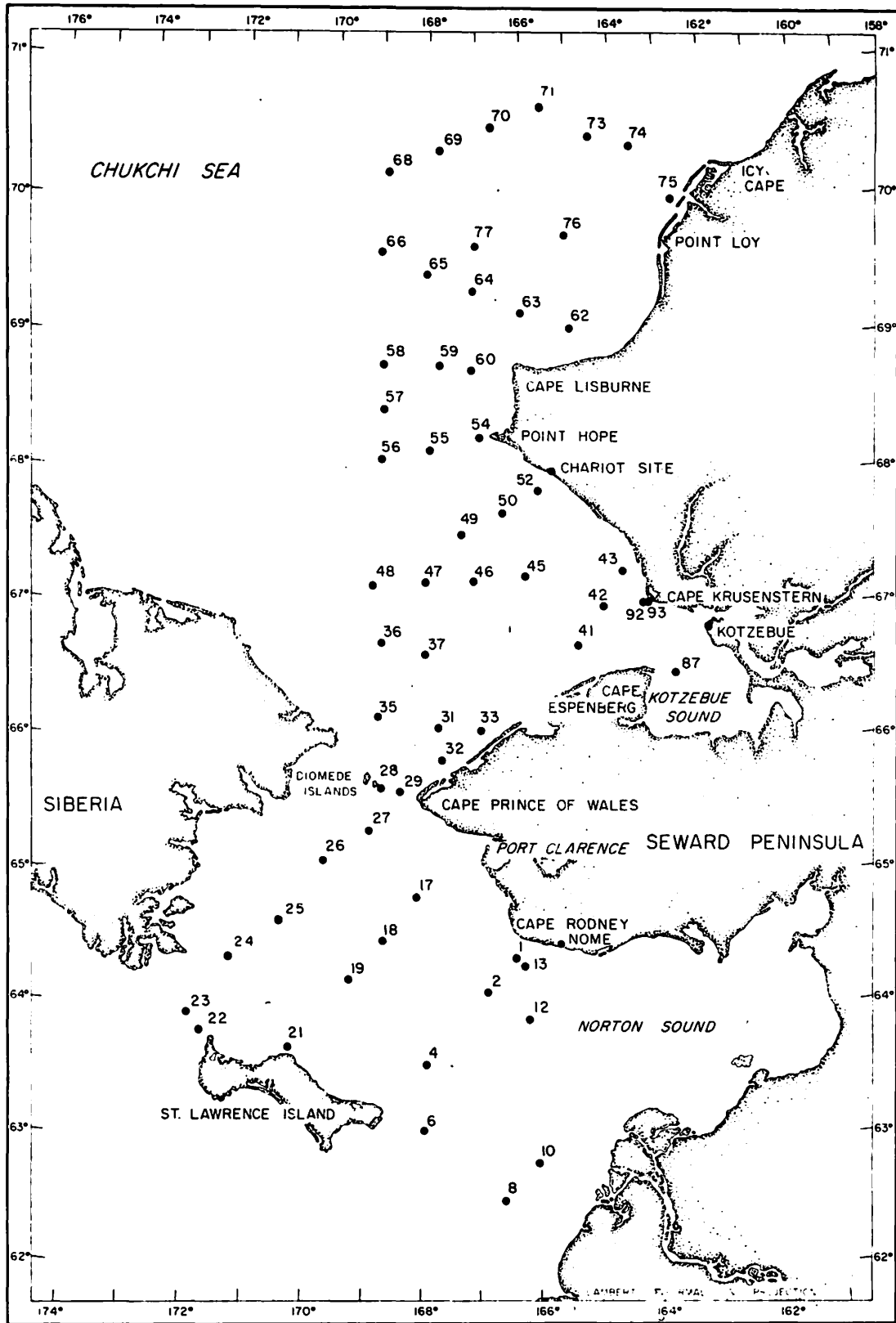


FIG 4. CRUISE BB 268, 26 JULY - 27 AUGUST 1960. STATIONS 1-93.

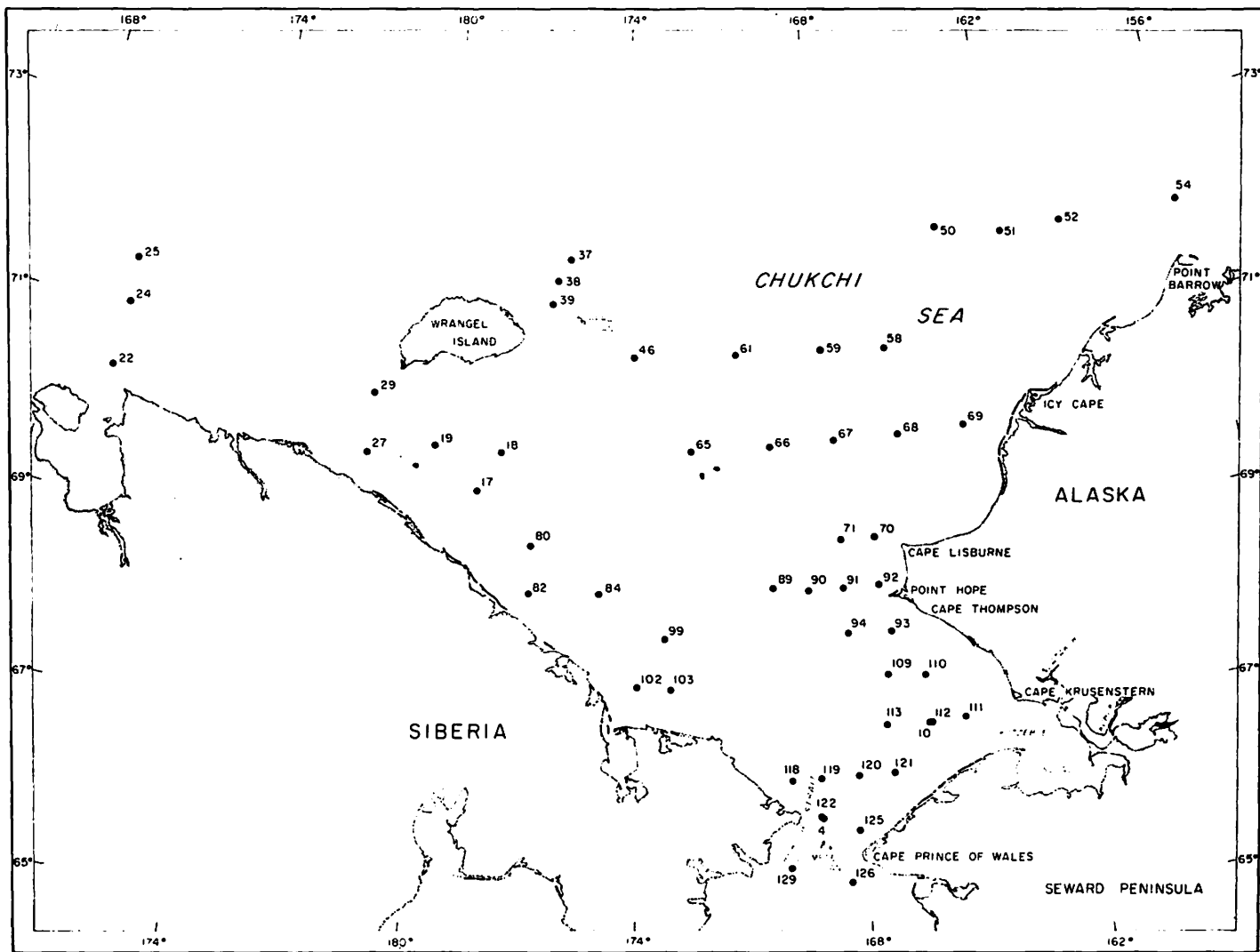


FIG 5 CRUISE 31968, 5-26 OCTOBER 1962 STATION LOCATIONS

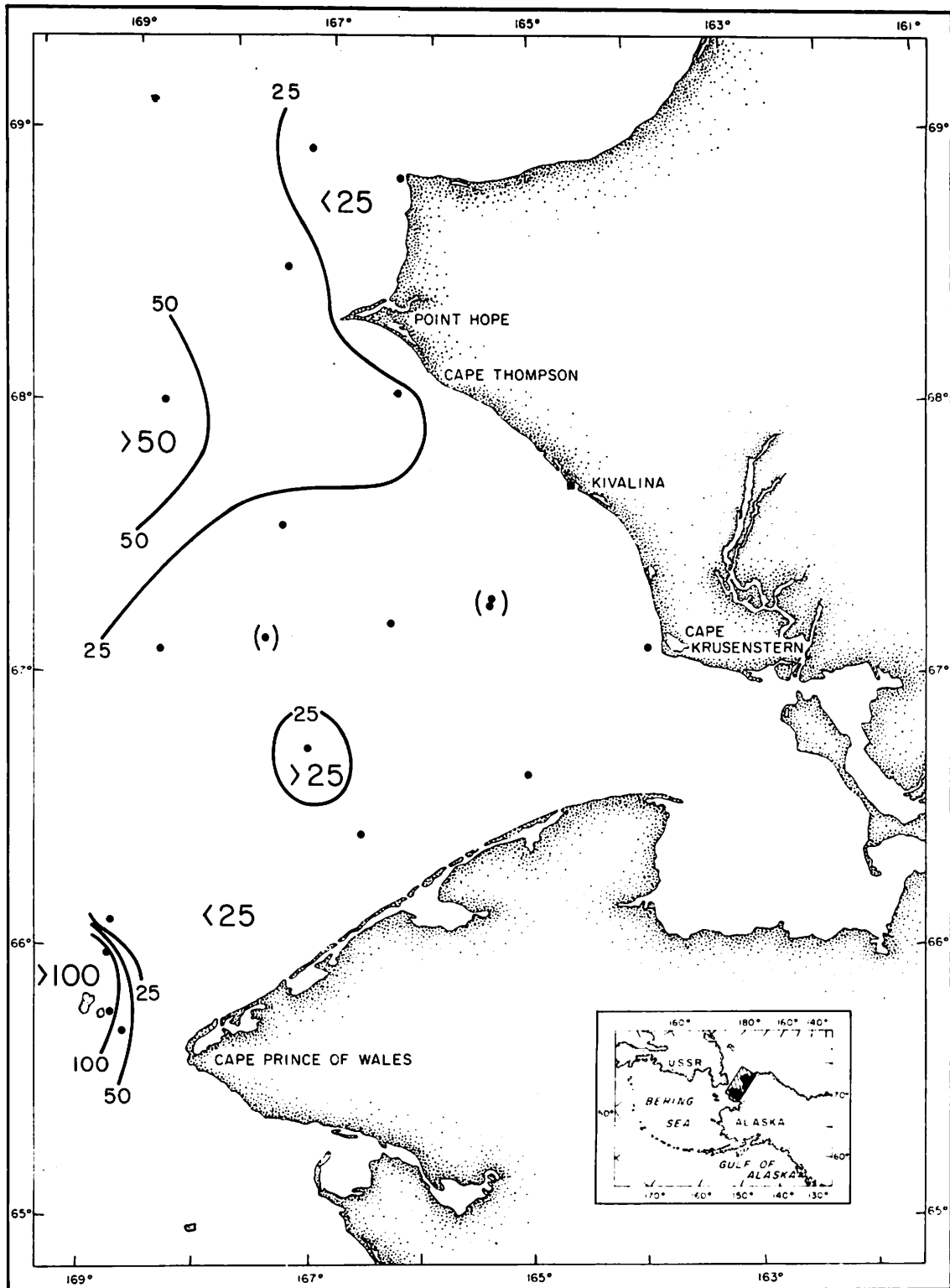


FIG 6. CRUISE BB 236, 2 AUGUST - 1 SEPTEMBER 1959. DISTRIBUTION OF CHLOROPHYLL-A, MILLIGRAMS/SQUARE METER.

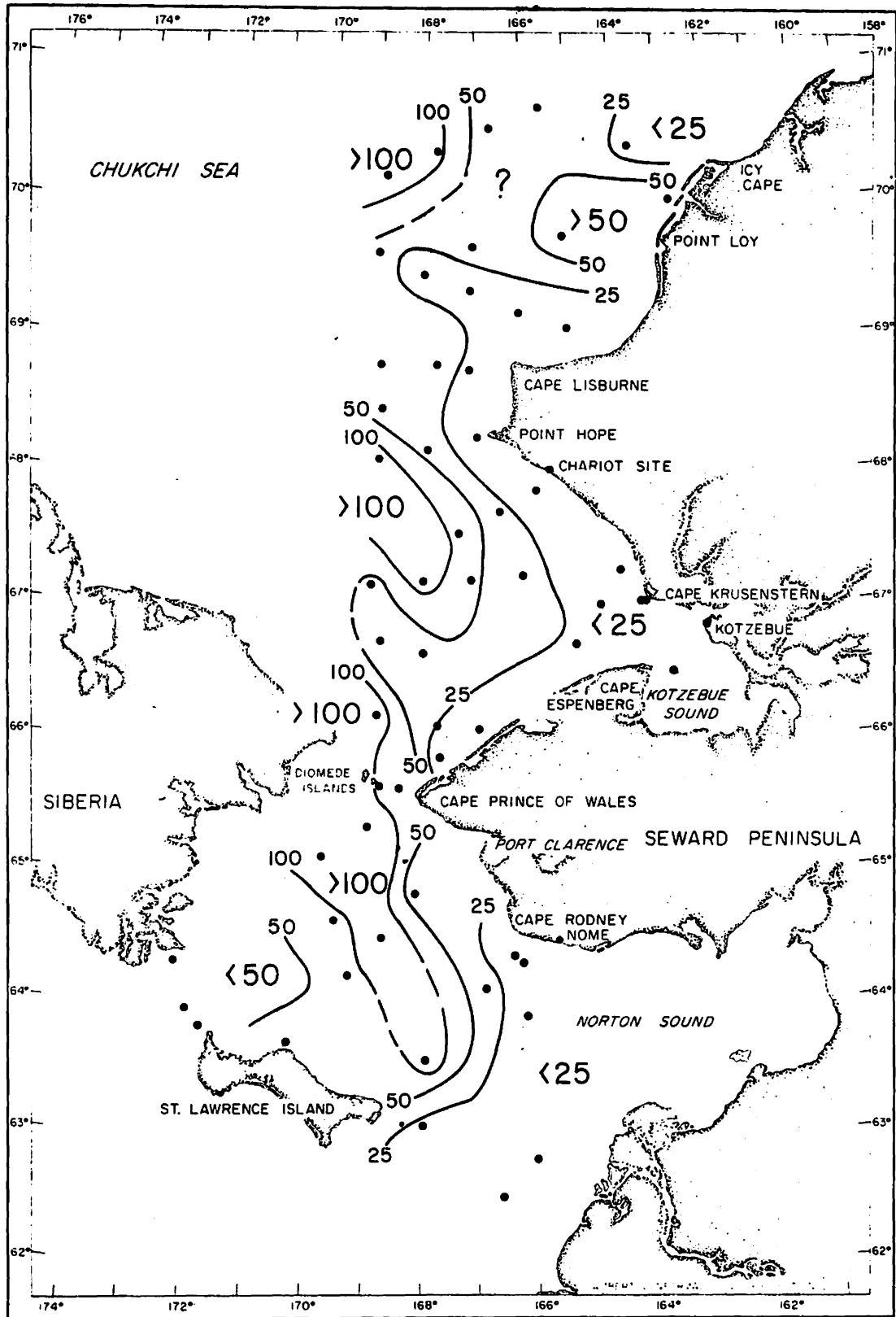


FIG 7. CRUISE BB 268, 26 JULY - 16 AUGUST 1960. DISTRIBUTION OF CHLOROPHYLL-A, MILLIGRAMS/SQUARE METER.

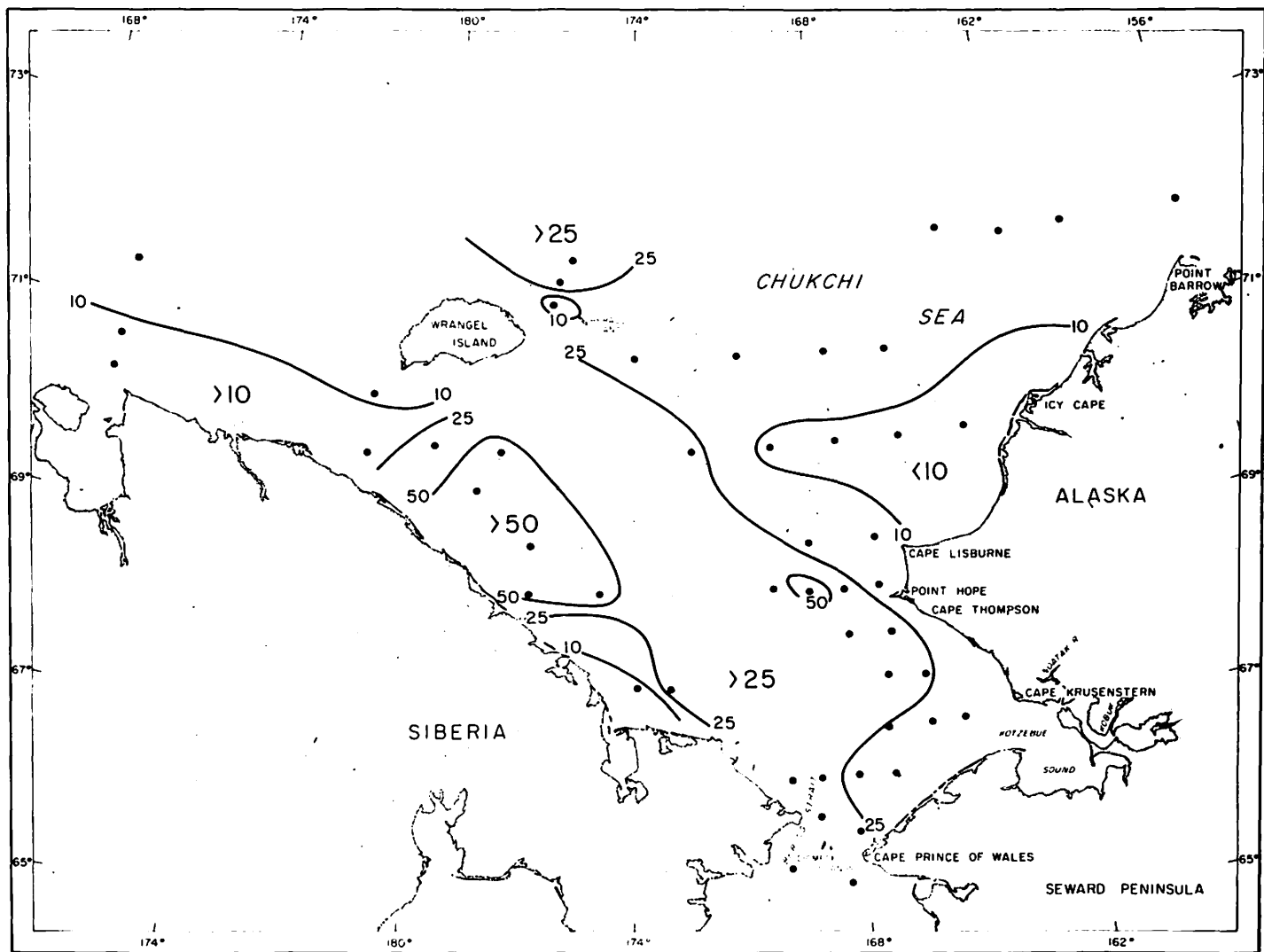


FIG 8. CRUISE 31968, 10-26 OCTOBER 1962. STATIONS 17-129
DISTRIBUTION OF CHLOROPHYLL-A, MILLIGRAMS/SQUARE METER

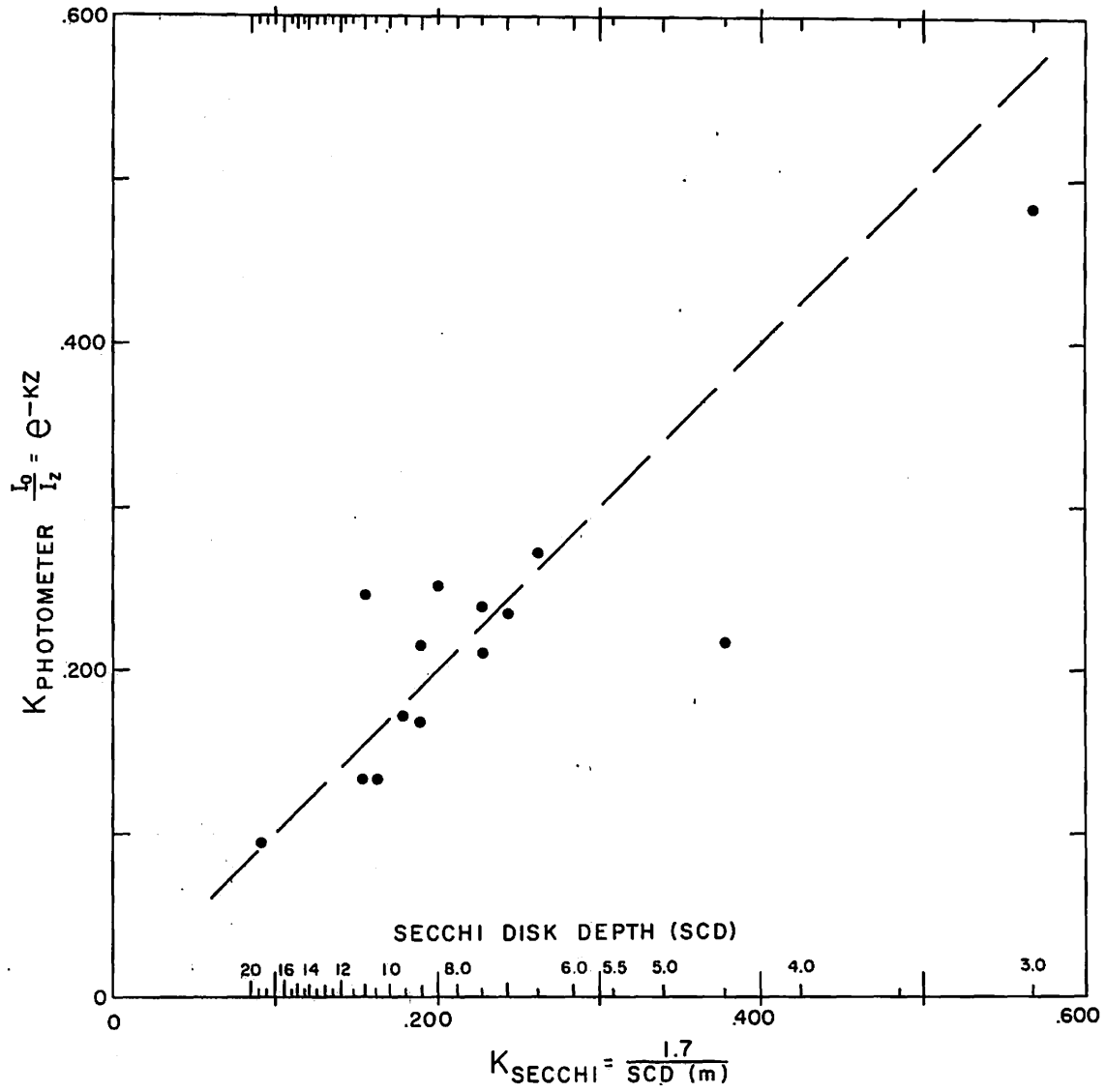


FIG 9 CRUISE BB 268, 26 JULY - 16 AUGUST 1960.
COMPARISON OF VERTICAL EXTINCTION COEFFICIENTS.

ABBREVIATIONS AND HEADINGS USED IN THE APPENDIX

- STATION:** The first five characters denote the cruise on which the station was occupied. The last three characters denote the station. In the case of locations repeatedly sampled from a stationary vessel, the numerical station sequence has been arbitrarily modified (cruise BB236, stations 071, A71, 072, A72, 073, A73, 074, and A74; cruise BB268, stations 115, 215, 116, 216, 316, 117, 118, 120, 121, 221 and 122).
- DATE:** Month/day/year. When the International Date Line was crossed, dating was not adjusted according to the usual convention.
- HR:** Local Standard Time: Bering Sea (Z + 11) Time throughout.
- LAT:** Latitude to nearest minute and, for cruise CH562, tenth of a minute.
- LONG:** Longitude to nearest minute and, for cruise CH562, tenth of a minute.
- SDG:** Sounding: water depth on station in meters.
- SCD:** Secchi disk depth to the nearest half meter.
- LY/HR:** Langley's per hour ($\text{g cal/cm}^2/\text{hr}$), the mean rate of insolation during the incubation period of a productivity measurement.
- DEPTH:** Sample depth, in meters.
- TEMP:** Water temperature, in centigrade.
- SAL:** Salinity in ‰.
- CHL-A:** Chlorophyll-a in mg/m^3 of sea water.
- ACA:** Accumulated chlorophyll-a in mg/m^2 of sea surface.
- CHL-B:** Chlorophyll-b in mg/m^3 of sea water.
- CHL-C:** Chlorophyll-c in MSPU/m^3 (Milli-Specific Pigment Units/ m^3) of sea water.
- CNAC:** Carotenoids, nonastacin type (plant carotenoids) in MSPU/m^3 (Milli-Specific Pigment Units/ m^3) of sea water.
- CAC:** Carotenoids, astacin type (animal carotenoids) in MSPU/m^3 (Milli-Specific Pigment Units/ m^3) of sea water.
- ASSIM:** Photosynthetic carbon fixation in $\text{mg C/m}^3/\text{hr}$.

SUMA: Summed assimilation in $\text{mg/m}^2/\text{hr}$.

A/CA: ASSIM/CHL-A: Assimilation (mg carbon) per mg chlorophyll-a per hour.

TECH: Designates the productivity measurement technique used.

STATION BB236-0 2 PHYTOPLANKTON DATA

STATION BB236-0 2 PHYTOPLANKTON DATA												
DATE 8/02/59 HR 0810 LAT 65-42 N LONG 168-43 W SDG 48 SCD 8.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.43	31.58	2.88		0.57	6.03	0.20	0.59	1.59		0.55	1
3.0		31.58	2.94		0.71	4.65	0.66	0.69	0.00		0.00	1
5.0	7.42	31.58										
10.0	7.35	31.58										
11.0		31.59	3.65		0.61	6.24	0.63	0.73	0.08	2.37	0.02	1
15.0	4.88	32.56										
22.0			2.98	71.55	0.48	7.63	0.26	0.89	*			

STATION BB236-0 3 PHYTOPLANKTON DATA

STATION BB236-0 3 PHYTOPLANKTON DATA												
DATE 8/02/59 HR 1215 LAT 65-59 N LONG 168-54 W SDG 48 SCD 8.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	3.44	32.78	8.96		0.00	9.49	2.40	0.26	9.00		1.00	1
3.0		32.78	10.39		0.55	10.21	2.58	0.66	12.85		1.24	1
5.0	3.44	32.78										
10.0	3.43	32.78										
11.0		32.78	7.39		0.05	5.70	2.65	0.53	4.88		0.66	1
15.0	3.38	32.79										
20.0	3.38	32.78										
22.0		32.78	5.82	172.80	0.18	3.48	1.43	0.52	7.87	173.80	1.35	1
30.0	3.32	32.78										

STATION BB236-014 PHYTOPLANKTON DATA

DATE 8/04/59 HR 1720 LAT 68-04 N LONG 166-20 W SDG 26 SCD 9.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.63	31.05	1.49		0.28	6.50	0.14	0.59	0.21		0.14	1
3.6		31.06	1.47		0.14	3.15	0.33	0.50	0.26		0.17	1
5.0	8.62	31.06										
10.0	8.16	31.17										
12.0		31.26	1.87		0.12	3.73	0.64	0.53	0.39		0.21	1
15.0	7.80	31.36										
16.0		31.36	2.44	27.99	0.00	16.85	0.78	0.66	2.29	8.93	0.94	1

STATION BB236-016 PHYTOPLANKTON DATA

DATE 8/04/59 HR 2318 LAT 68-32 N LONG 167-27 W SDG 42 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.08	31.37	0.98		0.08	0.04	0.49	0.00	0.65		0.66	1
3.0		31.37	0.90		0.26	1.71	0.49	0.09	0.60		0.67	1
5.0	8.07	31.37										
10.0	7.80	31.45	1.46		0.24	2.17	0.33	0.39	0.73		0.51	1
15.0	6.45	31.98										
19.0		32.16	2.68	29.69	0.00	2.98	0.79	0.45	0.88	13.75	0.33	1
20.0	5.92	32.16										

STATION BB236-018 PHYTOPLANKTON DATA

DATE 8/05/59 HR 0725 LAT 69-07 N LONG 168-52 W SDG 51 SCD 8.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.75	29.80	2.61		0.00	2.43	1.11	0.18	4.27		1.63	1
3.0		30.00	1.64		0.00	1.55	0.62	0.20	2.79		1.70	1
5.0	7.31	30.22										
10.0	7.23	31.40										
11.0		31.40	1.33		0.01	1.41	0.35	0.34	1.02		0.76	1
15.0		29.85										
20.0	4.94	32.39										
22.0		32.40	2.85	41.25	0.21	3.24	0.97	0.45	1.55	39.97	0.54	1
30.0	4.75	32.49										

STATION BB236-019 PHYTOPLANKTON DATA

DATE 8/05/59 HR 1240 LAT 68-58 N LONG 167-14 W SDG 48 SCD 9.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.12	30.28	0.56		0.21	1.94	0.23	0.40	0.74		1.33	1
4.0		30.40	0.74		0.33	2.89	0.06	0.32	1.19		1.60	1
5.0	6.45	30.43										
10.0	6.38	30.48										
12.0		30.64	0.78		0.37	5.61	0.47	0.33	0.93		1.19	1
15.0	6.30	30.94										
20.0	6.06	31.31										
24.0		31.86	1.12	20.03	0.27	5.00	0.03	0.53	0.81	22.85	0.72	1
30.0	5.00	32.06										

STATION BB236-021 PHYTOPLANKTON DATA

DATE 8/05/59 HR 1835 LAT 68-52 N LONG 166-15 W SDG 14 SCD 8.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.61	30.98	0.85		0.21	1.88	0.14	0.23	0.60		0.71	1
3.0		31.08	1.27		0.20	1.26	0.41	0.21	1.29		1.02	1
5.0	6.94	31.24										
10.0	6.85	31.28										
12.0		31.30	1.59	16.05	0.02	2.15	0.50	0.25	1.85	17.00	1.15	1

STATION BB236-024 PHYTOPLANKTON DATA

DATE 8/06/59 HR 0946 LAT 68-01 N LONG 168-38 W SDG 59 SCD 12.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.90	32.12	0.43		0.11	2.21	0.20	0.19	1.07		2.49	1
5.0	6.89	32.09	0.71		0.21	1.54	0.11	0.24	0.92		1.29	1
10.0	6.89	32.09										
15.0	4.66	32.27										
16.0		32.33	3.65		0.00	3.27	1.09	0.40	1.40		0.38	1
20.0	3.13	32.58										
25.0	3.01	32.59										
30.0	2.94	32.58										
33.0		32.58	1.62	71.56	0.04	0.91	0.40	0.39	0.44	33.47	0.27	1
35.0	2.92	32.59										

STATION BB236-031 PHYTOPLANKTON DATA

DATE 8/07/59 HR 2337 LAT 67-07 N LONG 168-32 W SDG 47 SCD 8.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.65	30.91	0.87		0.08	1.08	0.26	0.16	1.00		1.15	1
3.0		31.24	0.85		0.16	1.64	0.36	0.17	0.32		0.38	1
10.0	6.73	32.02										
11.0		32.10	0.64		0.00	1.09	0.07	0.36	0.51		0.80	1
15.0	4.61	32.62										
20.0	4.51	32.64										
22.0		32.64	0.56	15.22	0.00	1.53	0.11	0.25	1.08	14.13	1.93	1
25.0	4.38	32.66										

STATION BB236-033 PHYTOPLANKTON DATA

DATE 8/08/59 HR 0850 LAT 67-34 N LONG 167-25 W SDG 47 SCD 5.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.36	32.23	0.61		0.22	1.64	0.30	0.00	1.93		3.16	1
3.0		32.23	0.75		0.05	0.84	0.27	0.08	1.31		1.75	1
5.0	7.39	32.23										
7.0		32.23	0.92		0.07	0.72	0.26	0.13	1.39		1.51	1
10.0	7.40	32.24										
14.0		32.30	0.56	10.59	0.00	1.13	0.15	0.11	0.45	16.67	0.80	1
15.0	6.52	32.31										

STATION BB236-040 PHYTOPLANKTON DATA

DATE 8/09/59 HR 1039 LAT 67-14 N LONG 166-23 W SDG 46 SCD 10.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.95	32.30							4.38			1
4.0		32.30							1.93			1
5.0	6.95	32.30										
10.0	6.96	32.30										
14.0	6.95	32.31	1.61		0.18	2.18	0.33	0.31	2.84		1.76	1
19.0	6.22	32.43										
24.0	5.07	32.50										
27.0		32.50	0.73	15.19	0.14	2.25	0.09	0.46	0.17	55.99	0.23	1
29.0	4.92	32.51										

STATION BB236-045 PHYTOPLANKTON DATA

DATE 8/10/59 HR 0730 LAT 66-46 N LONG 167-08 W SDG 37 SCD 8.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.05	31.83	2.61		0.00	2.58	0.88	0.19	8.99		3.44	1
3.0		31.83	1.94		0.09	1.45	0.71	0.28	4.28		2.20	1
5.0	7.05	31.83										
10.0	7.06	31.83										
11.0		31.83	2.02		0.32	1.53	0.93	0.14	3.49		1.73	1
14.0	7.07	31.84										
19.0	6.97	31.87										
22.0		32.02	1.37	41.35	0.02	2.22	0.33	0.40	1.83	80.24	1.33	1
24.0	5.94	32.23										

STATION BB236-048 PHYTOPLANKTON DATA

DATE 8/11/59 HR 0330 LAT 66-27 N LONG 166-38 W SDG 17 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.74	30.55	1.82		0.27	2.64	0.53	0.34	2.89		1.59	1
3.0		30.57	1.40		0.23	3.10	0.33	0.50	1.37		0.98	1
5.0	9.68	30.59										
10.0	9.43	30.70	1.32		0.03	2.08	0.50	0.18	1.12		0.85	1
14.5	9.33	30.75	1.45	20.55	0.25	1.30	0.40	0.32	0.58	18.96	0.40	1

STATION BB236-054 PHYTOPLANKTON DATA

DATE 8/11/59 HR 2330 LAT 67-08 N LONG 163-54 W SDG 14 SCD 3.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.24	22.56	1.20		0.00	3.38	0.34	0.36	0.42		0.34	1
3.0		25.70	2.30		0.03	5.59	0.55	0.75	1.07		0.47	1
5.0	10.88	27.96										
6.0		28.31	1.48		0.12	4.70	1.41	0.75	0.22		0.15	1
9.0		28.96	1.29	15.06	0.28	2.31	0.92	0.28	0.33	5.00	0.25	1
10.0	5.50	29.68										

STATION BB236-059 PHYTOPLANKTON DATA

DATE 8/12/59 HR 1500 LAT 66-40 N LONG 165-03 W SDG 21 SCD 12.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.10	31.08	0.48		0.00	1.21	0.22	0.18	0.58		1.20	1
5.0	9.91	31.08	0.55		0.22	0.35	0.11	0.28	1.08		1.96	1
10.0	9.52	31.10										
14.0	9.28	31.14										
16.0	31.14	1.17	12.03	0.05	0.59	0.41	0.25	1.91	20.63	1.63	1	
19.0	9.15	31.15										

STATION BB236-071 PHYTOPLANKTON DATA

DATE 8/14/59 HR 1700 LAT 67-08 N LONG 167-40 W SDG 40 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.56	32.66	1.81		0.00	13.41	1.07	0.00	1.11		0.61	1
3.0		32.66							1.13		0.00	1
5.0	4.53	32.65										
10.0	4.59	32.66	1.52		0.46	4.02	0.00	0.89	1.35		0.89	1
15.0	4.48	32.67										
19.0	32.65	2.55	34.99	0.59	6.58	0.00	0.96	1.71	25.86	0.67	1	
20.0	4.36	32.65										

STATION BB236-A71 PHYTOPLANKTON DATA

DATE 8/14/59 HR 1930 LAT 67-08 N LONG 167-40 W SDG 40 SCD 7.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.56	32.66	1.84		0.56	7.43	0.00	0.81	1.86		1.01	1
3.0		32.65	1.56		0.35	4.54	0.00	0.61	1.68		1.07	1
5.0	4.53	32.65										
10.0	4.59	32.66	1.81		0.54	7.27	0.00	0.84	1.30		0.72	1
15.0	4.48	32.67										
19.0		32.65	2.61	36.75	0.16	5.07	0.00	0.79	2.80	34.21	1.07	1
20.0	4.36	32.65										
25.0	3.80	32.65										

STATION BB236-072 PHYTOPLANKTON DATA

DATE 8/14/59 HR 2245 LAT 67-08 N LONG 167-40 W SDG 40 SCD												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.54	32.65	1.91		0.89	7.38	0.00	1.03	1.58		0.82	1
3.0		32.65	1.39		0.46	3.53	0.04	0.56	1.23		0.89	1
5.0	4.56	32.64										
10.0	4.58	32.65	2.43		0.62	13.31	0.00	1.76	1.27		0.51	1
15.0	4.54	32.65										
19.0		32.65	1.95	38.07	0.99	2.02	0.00	0.97	1.11	23.67	0.56	1
20.0	3.52	32.67										

STATION BB236-A72 PHYTOPLANKTON DATA

DATE 8/15/59 HR 0400 LAT 67-08 N LONG 167-40 W SDG 40 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.54	32.65	1.04		1.12	4.62	0.00	0.81	0.72		0.69	1
3.0		32.65	1.17		0.54	4.54	0.00	0.78	0.74		0.63	1
5.0	4.56	32.64										
10.0	4.58	32.65	1.69		1.24	6.11	0.00	0.95	0.98		0.58	1
15.0	4.54	32.65										
19.0		32.65	2.20	30.77	0.89	6.83	0.41	0.98	1.84	20.88	0.84	1
20.0	3.52	32.67										

STATION BB236-073 PHYTOPLANKTON DATA

DATE 8/15/59 HR 0800 LAT 67-08 N LONG 167-40 W SDG 40 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.62	32.64	1.13		0.00	2.89	0.00	0.46	0.92		0.81	1
3.0		32.64	0.84		0.81	2.46	0.00	0.59	0.48		0.57	1
5.0	4.60	32.64										
10.0	4.60	32.64	0.89		0.24	2.68	0.00	0.63	2.44		2.74	1
15.0	3.28	32.63										
19.0		32.63	2.16	22.74	0.31	3.68	0.05	0.56	0.00	23.26	0.00	1
20.0	3.05	32.63										

STATION BB236-A73 PHYTOPLANKTON DATA

DATE 8/15/59 HR 1200 LAT 67-08 N LONG 167-40 W SDG 40 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.62	32.64	8.55		0.86	5.12	2.50	0.00	26.24		3.06	1
3.0		32.64	9.18		0.00	10.41	1.36	0.73	20.54		2.24	1
5.0	4.60	32.64										
10.0	4.60		1.23		0.54	2.76	0.28	0.37				
15.0	3.28	32.63										
19.0		32.64	2.27	78.77	0.00	3.33	0.30	0.47	2.80	256.92	1.23	1
20.0	3.05	32.63										

STATION BB236-074 PHYTOPLANKTON DATA

DATE 8/15/59 HR 1430 LAT 67-08 N LONG 167-40 W SDG 40 SCD 6.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.72	32.64	8.62		0.84	6.20	1.73	0.16	30.53		3.54	1
3.0		32.64	10.02	27.95	0.72	6.55	1.84	0.38	32.93		3.28	1
5.0	4.22	32.64										
10.0	4.18	32.64							29.62			1
15.0	3.94	32.64										
19.0		32.65							3.83	464.64		1
20.0	3.15	32.65										

STATION BB236-1 4 PHYTOPLANKTON DATA

DATE 8/20/59 HR 2000 LAT 67-18 N LONG 165-26 W SDG 34 SCD 11.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.31	32.54	0.83		0.14	2.86	0.24	0.03	1.50		1.80	1
4.5	6.91	32.55	0.53		0.18	0.63	0.01	0.09	1.21		2.28	1
10.0	5.90	32.54										
15.0	5.82	32.55	1.86		0.28	1.08	0.54	0.03	2.48		1.33	1
20.0	5.70	32.55										
25.0	5.57	32.55										
30.0	5.53	32.55	1.84	43.38	0.52	1.24	0.22	0.32	0.97	51.46	0.52	1

STATION BB236-1 5 PHYTOPLANKTON DATA

DATE 8/20/59 HR 2400 LAT 67-19 N LONG 165-26 W SDG 35 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.32	32.55	0.26		0.09	0.00	0.00	0.21	0.65		2.50	1
4.5	7.31	32.54	0.32		0.19	1.28	0.00	0.36	0.39		1.22	1
10.0	6.10	32.56										
15.0	5.66	32.55	1.83		0.12	3.86	0.33	0.35	2.39		1.31	1
20.0	5.54	32.56										
25.0	5.31	32.55										
30.0	5.28	32.56	0.77	32.12	0.06	0.92	0.07	0.24	3.04	57.65	3.95	1

STATION BB236-1 6 PHYTOPLANKTON DATA

DATE 8/21/59 HR 0400 LAT 67-19 N LONG 165-26 W SDG 34 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.46	32.51	0.25		0.01	2.42	0.04	0.12	0.96		3.83	1
4.5	7.44	32.51	0.26		0.14	0.98	0.00	0.21	0.71		2.73	1
10.0	5.96	32.56										
15.0	5.78	32.55	0.73		0.06	3.07	0.00	0.33	1.20		1.64	1
20.0	5.80	32.55										
25.0	5.72	32.54										
30.0	5.61	32.55	1.37	22.15	0.13	0.99	0.15	0.33	3.13	46.32	2.28	1

STATION BB236-1 7 PHYTOPLANKTON DATA

DATE 8/21/59 HR 0800 LAT 67-19 N LONG 165-24 W SDG 34 SCD 12.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.64	32.48	1.18		0.29	1.01	0.09	0.32	4.01		3.40	1
4.5	7.60	32.47	0.64		0.00	5.43	0.00	0.26	2.27		3.55	1
10.0	6.15	32.51										
15.0	5.86	32.52	1.11		0.27	1.54	0.00	0.50	0.56		0.51	1
20.0	5.82	32.54										
25.0	5.82	32.54										
30.0	5.78	32.54	1.08	29.69	0.00	6.04	0.03	0.25	3.18	57.07	2.94	1

STATION BB236-170 PHYTOPLANKTON DATA

DATE 8/31/59 HR 1900 LAT 66-07 N LONG 168-51 W SDG 53 SCD 7.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.88	30.59	1.04		0.33	1.12	0.27	0.01	0.91		0.88	1
2.0		30.60	1.50		0.54	0.76	0.40	0.02	1.61		1.07	1
5.0	5.88	30.61										
6.8		30.73	1.12		0.40	0.10	0.24	0.10	0.40		0.35	1
10.0	5.63	30.87										
13.6		31.02	1.32	17.11	0.32	2.72	0.07	0.09	1.57	14.02	1.19	1
15.0	5.41	31.09										

STATION BB236-173 PHYTOPLANKTON DATA

DATE 9/01/59 HR 0800 LAT 65-46 N LONG 168-48 W SDG 47 SCD												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.48	32.09	5.66		0.00	17.06	1.21	0.22	7.98		1.41	1
2.0		32.18	6.78		0.39	4.83	1.44	0.68	8.02		1.18	1
5.0	5.54	32.32										
6.8		32.41	10.63		0.16	7.90	2.11	0.58	34.41		3.23	1
10.0	4.56	32.55										
13.6		32.73	4.40	105.32	0.56	2.54	0.77	0.33	17.72	295.06	4.02	1
15.0	3.60	32.78										

STATION BB268-001 PHYTOPLANKTON DATA

DATE 7/26/60 HR 1720 LAT 64-26 N LONG 166-20 W
SDG 29 SCD 6.0 LY/HR 2.58 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.58	31.90							1.53			1
2.5		31.91							1.54			1
3.0			0.63		0.15	1.72	0.32	0.24				
5.0	11.54	31.91										
8.0		31.95	0.76		0.00	0.56	0.26	0.03	1.83		2.41	1
10.0	10.74	31.97										
15.0	8.98	32.54										
16.0		32.60	0.49	8.50	0.23	2.18	0.24	0.10	2.26	29.47	4.62	1
20.0	9.10	32.80										
0.0	11.58	31.90							0.51			6

STATION BB268-002 PHYTOPLANKTON DATA

DATE 7/26/60 HR 2310 LAT 64-10 N LONG 166-52 W
SDG 31 SCD 11.5 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.27	29.82	0.26		0.00	1.14	0.12	0.10	0.21		0.81	1
4.5		29.91							0.24			1
5.0	12.30	29.92	0.30		0.00	0.49	0.15	0.00				
10.0	1.38	31.96										
15.0	0.98	32.01	1.84		0.00	2.33	0.11	0.20	3.19		1.73	1
30.0	0.99	32.01	2.08	41.44	0.00	2.01	0.38	0.20	3.76	71.07	1.80	1
0.0	12.27	29.82	0.26		0.00	1.14	0.12	0.10	0.01		0.03	6

STATION BB268-004 PHYTOPLANKTON DATA

DATE 7/27/60 HR 1020 LAT 63-37 N LONG 167-57 W
SDG 29 SCD 9.0 LY/HR 50.08 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.19	31.48	0.19		0.00	0.39	0.22	0.00	1.10		5.79	1
5.0	7.78	31.60	2.31		0.01	3.07	0.31	0.25	1.76		0.76	1
10.0	0.94	31.95	5.27		0.00	4.22	0.61	0.35	12.75		2.41	1
15.0	0.59	31.97										
20.0	0.55	31.99										
25.0	0.53	31.99	9.04	132.54	0.00	5.79	1.13	0.49	21.98	303.93	2.43	1
28.0	0.53	31.99										
0.0	9.19	31.48	0.19		0.00	0.39	0.22	0.00	0.99		5.21	6

STATION BB268-006 PHYTOPLANKTON DATA

DATE 7/27/60 HR 2130 LAT 63-07 N LONG 167-58 W
SDG 32 SCD 13.5 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.58	31.25	0.32		0.00	1.07	0.07	0.20	0.30		0.94	1
5.0	9.98	31.25	0.19		0.00	1.19	0.09	0.03	0.16		0.84	1
10.0	1.26	31.90										
15.0	1.03	31.94										
17.0		31.96	1.66		0.00	1.79	0.12	0.25	2.15		1.29	1
20.0	0.88	31.98										
25.0	0.88	31.98	0.34	20.34	0.00	0.79	0.13	0.02	2.38	33.21	6.99	1
30.0	0.86	31.98										
0.0	10.58	31.25	0.32		0.00	1.07	0.07	0.20	0.09		0.29	6

STATION BB268-008 PHYTOPLANKTON DATA

DATE 7/28/60 HR 0820 LAT 62-34 N LONG 166-35 W
 SDG 22 SCD 8.0 LY/HR 45.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.18	27.15	1.24		0.00	1.59	0.21	0.19	5.08		4.09	1
3.0		29.08	1.33		0.00	1.84	0.17	0.27	4.35		3.27	1
5.0	5.44	30.36										
10.0	4.92	31.03	1.27		0.00	2.01	0.13	0.22	2.05		1.61	1
15.0	4.81	31.03										
16.0		31.03	1.21	20.44	0.00	1.13	0.00	0.28	2.17	49.22	1.79	1
20.0	4.44	31.04										
0.0	12.18	27.15	1.24		0.00	1.59	0.21	0.19	5.53		4.45	6

STATION BB268-010 PHYTOPLANKTON DATA

DATE 7/28/60 HR 1920 LAT 62-52 N LONG 166-00 W
 SDG 22 SCD 11.0 LY/HR 0.36 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	13.38	27.04	0.51		0.00	0.99	0.00	0.29	1.14		2.24	1
5.0	12.34	28.08	0.73		0.00	1.80	0.00	0.39	0.96		1.32	1
10.0	0.94	31.21	1.02		0.00	0.02	0.33	0.03	2.96		2.90	1
15.0	0.87	31.22	1.19	12.97	0.00	0.84	0.37	0.15	3.48	31.17	2.93	1
18.0	0.88	31.23										
0.0	13.38	27.04	0.51		0.00	0.99	0.00	0.29	0.02		0.04	6

STATION BB268-012 PHYTOPLANKTON DATA

DATE 7/29/60 HR 0720 LAT 63-58 N LONG 166-08 W
SDG 24 SCD 13.3 LY/HR 49.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	13.85	27.23	0.45		0.06	1.32	0.12	0.16	0.66		1.46	1
5.0	12.24	29.06	0.36		0.05	0.81	0.10	0.13	0.59		1.63	1
10.0	4.06	31.67	0.65		0.00	0.91	0.18	0.06	0.99		1.52	1
15.0	1.85	31.85	1.81	10.67	0.00	2.08	0.46	0.16	3.16	17.46	1.75	1
0.0	13.85	27.23	0.45		0.06	1.32	0.12	0.16	0.49		1.09	6

STATION BB268-013 PHYTOPLANKTON DATA

DATE 7/29/60 HR 1315 LAT 64-22 N LONG 166-11 W
SDG 27 SCD 8.5 LY/HR 55.38 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.89	31.78	0.24		0.00	0.83	0.12	0.11	1.49		6.21	1
4.0		31.83	0.20		0.00	0.51	0.10	0.00	1.04		5.20	1
5.0	9.34	31.85										
10.0	8.92	31.86										
11.0		31.96	1.05		0.03	1.47	0.12	0.19	3.38		3.22	1
15.0	8.96											
20.0	8.78	32.71										
23.0		32.74	0.96	17.28	0.00	0.66	0.15	0.22	1.72	51.10	1.79	1
25.0	8.74	32.77										
0.0	11.89	31.78	0.24		0.00	0.83	0.12	0.11	1.60		6.67	6

STATION BB268-017 PHYTOPLANKTON DATA

DATE 7/30/60 HR 0934 LAT 64-54 N LONG 168-10 W
SDG 41 SCD 12.5 LY/HR 21.90 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.46	30.90	0.26		0.00	0.00	0.12	0.10	1.03		3.97	1
5.0	8.70	31.57	0.59		0.00	0.80	0.00	0.19	2.52		4.26	1
10.0	7.50	31.77										
15.0	5.49	31.91										
17.0		31.92	2.20		0.00	2.00	0.24	0.30	1.48		0.68	1
20.0	4.92	31.96										
25.0	1.30	32.11										
30.0	1.25	32.14										
34.0		32.14	0.92	45.46	0.00	1.49	0.30	0.08	1.48	58.03	1.60	1
35.0	1.23											
0.0	11.46	30.90	0.26		0.00	0.00	0.12	0.10	0.88		3.39	6

STATION BB268-018 PHYTOPLANKTON DATA

DATE 7/30/60 HR 1330 LAT 64-34 N LONG 168-47 W
SDG 45 SCD 7.5 LY/HR 26.70 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.43	31.71	0.82		0.06	0.91	0.28	0.08	2.00		2.44	1
3.0		31.71	0.88		0.00	1.09	0.29	0.07	1.22		1.38	1
5.0	8.40	31.71										
10.0	3.37	32.40	17.25		0.00	14.01	3.57	0.63	23.94		1.38	1
15.0	2.13	32.52										
20.0	2.10	32.54	2.74	165.94	0.00	1.89	0.49	0.23	2.23	223.70	0.81	1
25.0	2.06	32.57										
0.0	8.43	31.71	0.82		0.06	0.91	0.28	0.08	1.81		2.20	6

STATION BB268-019 PHYTOPLANKTON DATA

DATE 7/30/60 HR 1830 LAT 64-16 N LONG 169-21 W
SDG 39 SCD 9.0 LY/HR 1.50 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.22	31.76	1.47		0.00	1.38	0.44	0.10	1.97		1.34	1
4.0		31.77	1.58		0.01	2.19	0.40	0.15	2.13		1.34	1
5.0	7.20	31.77										
10.0	6.03	31.77										
12.0		31.90	3.02		0.00	2.82	1.33	0.04	3.78		1.25	1
15.0	4.45	32.11										
20.0	1.86	32.40										
24.0		32.40	2.11	55.25	0.00	1.71	0.96	0.05	1.44	63.15	0.68	1
0.0	7.22	31.76	1.47		0.00	1.38	0.44	0.10	0.90		0.61	6

STATION BB268-021 PHYTOPLANKTON DATA

DATE 7/31/60 HR 0355 LAT 63-44 N LONG 170-22 W
SDG 35 SCD 8.0 LY/HR 1.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.60	31.48	0.49		0.00	1.35	0.02	0.12	0.89		1.81	1
3.0		31.48	0.46		0.02	0.72	0.09	0.09	0.87		1.89	1
5.0	8.48	31.48										
10.0	4.86	31.67										
11.0		31.68	3.63		0.00	2.46	0.78	0.11	6.19		1.71	
15.0	4.54	31.69										
20.0	4.46	31.70										
22.0		31.70	4.71	63.67	0.00	3.73	0.93	0.19	5.08	92.83	1.08	1
25.0	4.38	31.70										
0.0	8.60	31.48	0.49		0.00	1.35	0.02	0.12	0.34		0.69	6

STATION BB268-022 PHYTOPLANKTON DATA

DATE 7/31/60 HR 1115 LAT 63-50 N LONG 171-55 W
SDG 37 SCD 10.5 LY/HR 58.02 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.43	31.62	1.23		0.00	1.42	0.28	0.19	4.11		3.34	1
4.0		31.61	1.11		0.00	1.35	0.31	0.16	2.91		2.62	1
5.0	8.40	31.61										
10.0	8.36	31.63										
14.0		31.63	0.98		0.09	1.78	0.20	0.17	3.49		3.56	1
15.0	8.28	31.63										
20.0	1.50	32.12										
25.0	0.84	32.13										
28.0		32.13	2.91	42.34	0.00	2.04	0.53	0.27	2.33	86.80	0.80	1
30.0	0.82	32.13										
0.0	8.43	31.62	1.23		0.00	1.42	0.28	0.19	2.80		2.28	6

STATION BB268-023 PHYTOPLANKTON DATA

DATE 7/31/60 HR 2030 LAT 63-58 N LONG 172-11 W
SDG 63 SCD 5.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.03	31.33	3.06		0.00	6.05	0.65	0.71	20.61		6.73	
2.0		31.33	3.59		0.00	5.13	0.76	0.71	17.30		4.82	1
5.0	10.02	31.32										
7.0		31.34	2.95		0.00	5.66	0.62	0.61	16.70		5.66	1
10.0	9.86	31.36										
14.0		32.54	2.33	41.45	0.00	3.03	0.51	0.46	12.27	224.33	5.26	1
15.0	1.81	32.83										
0.0	10.03	31.33	3.06		0.00	6.05	0.65	0.71	0.01		0.00	6

STATION BB268-024 PHYTOPLANKTON DATA

DATE 8/01/60 HR 0300 LAT 64-19 N LONG 171-26 W
SDG 43 SCD 7.0 LY/HR 2.70 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.37	30.97	1.50		0.00	1.73	0.34	0.33	4.08		2.72	1
3.0		30.98	1.53		0.08	2.13	0.32	0.33	0.03		0.02	1
5.0	9.35	30.98										
10.0	2.04	32.78	1.24		0.00	0.93	0.25	0.14	1.55		1.25	1
14.0	1.76	32.84										
19.0	1.77	32.84										
20.0		32.84	1.29	26.88	0.00	1.02	0.26	0.18	1.12	25.04	0.87	1
24.0	1.74	32.84										
0.0	9.37	30.97	1.50		0.00	1.73	0.34	0.33	0.80		0.53	6

STATION BB268-025 PHYTOPLANKTON DATA

DATE 8/01/60 HR 0900 LAT 64-41 N LONG 169-38 W
SDG 48 SCD 9.5 LY/HR 33.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.00	32.88	2.78		0.00	1.70	0.65	0.13	3.02		1.09	1
4.0		32.88	2.81		0.00	2.11	0.72	0.11	3.12		1.12	1
5.0	1.98	32.88										
10.0	1.94	32.92										
13.0		32.96	3.37		0.00	3.58	0.75	0.19	4.00		1.18	1
15.0	1.73	32.99										
20.0	1.56	33.01										
25.0	1.48	33.01										
26.0		32.75	3.41	82.99	0.00	1.98	0.69	0.19	3.43	92.67	1.00	1
30.0	1.45	33.01										
0.0	2.00	32.88	2.78		0.00	1.70	0.65	0.13	3.75		1.34	6

STATION BB268-026 PHYTOPLANKTON DATA

DATE 8/01/60 HR 1430 LAT 65-01 N LONG 169-52 W
SDG 45 SCD 5.0 LY/HR 50.40 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.76	32.11	7.41		0.00	6.53	1.91	0.44	11.96		1.61	1
2.0		32.11	9.54		0.00	9.19	2.53	0.46	9.55		1.00	1
5.0	6.76	32.10										
7.0		32.10	8.41		0.00	7.10	2.33	0.45	10.19		1.21	1
10.0	6.74	32.10										
14.0		32.11	12.28	134.22	0.00	8.98	3.11	0.52	12.06	148.73	0.98	1
15.0	6.70	32.11										
0.0	6.76	32.11	7.41		0.00	6.53	1.91	0.44	9.73		1.32	6

STATION BB268-027 PHYTOPLANKTON DATA

DATE 8/01/60 HR 2030 LAT 65-24 N LONG 169-02 W
SDG 52 SCD 3.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	3.88	32.54	28.97		0.00	19.72	5.73	0.79	63.11		2.17	1
5.0	3.88	32.54	31.63		0.00	20.93	6.19	0.78	54.12		1.72	1
10.0	3.90	32.54	27.73		0.00	19.71	4.56	0.94	68.32		2.46	1
20.0	3.89	32.54	34.14	609.28	0.00	23.36	6.72	0.81	77.87	1330.09	2.28	1
0.0	3.88	32.54	28.97		0.00	19.72	5.73	0.79	3.11		0.10	6

STATION BB268-028 PHYTOPLANKTON DATA

DATE 8/02/60 HR 0130 LAT 65-44 N LONG 168-53 W
SDG 49 SCD 8.0 LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.22	30.40	1.36		0.02	1.10	0.35	0.16				
5.0	9.22	30.39	1.32		0.02	1.65	0.31	0.15				
10.0	9.08	30.51	1.40		0.01	1.09	0.34	0.14				
20.0	3.14	32.50	15.30	96.99	0.00	10.60	2.94	0.55				

STATION BB268-029 PHYTOPLANKTON DATA

DATE 8/02/60 HR 0315 LAT 65-42 N LONG 168-30 W
SDG 55 SCD 9.0 LY/HR 1.02 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.49	31.33	1.01		0.12	1.75	0.17	0.14	1.33		1.32	1
4.0		31.33	1.14		0.07	1.48	0.21	0.17	1.51		1.33	1
5.0	9.48	31.33										
10.0	6.35	31.78										
12.0		31.92	0.98		0.02	1.09	0.23	0.14	1.62		1.65	1
15.0	3.58	32.15										
20.0	3.75	32.25										
24.0		32.29	9.89	78.01	0.00	7.93	2.19	0.42	11.40	96.30	1.15	1
25.0	3.68	32.30										
0.0	9.49	31.33	1.01		0.12	1.75	0.17	0.14	0.72		0.72	6

STATION BB268-031 PHYTOPLANKTON DATA

DATE 8/02/60 HR 1330 LAT 66-11 N LONG 167-45 W
SDG 19 SCD 5.5 LY/HR 37.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.72	31.62	1.39		0.00	0.91	0.34	0.13	2.96		2.13	1
2.0		31.62	1.47		0.04	1.32	0.40	0.12	2.92		1.98	1
5.0	11.52	31.61										
7.0		31.62	1.78		0.11	2.23	0.39	0.18	3.46		1.94	1
10.0	11.48	31.62										
15.0	11.33	31.64	1.90	25.69	0.19	1.79	0.45	0.18	3.79	50.85	1.99	1
0.0	11.72	31.62	1.39		0.00	0.91	0.34	0.13	2.75		1.97	6

STATION BB268-032 PHYTOPLANKTON DATA

DATE 8/02/60 HR 1820 LAT 65-56 N LONG 167-39 W
SDG 17 SCD 6.5 LY/HR 5.40 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.72	31.54	0.77		0.00	1.13	0.28	0.04	1.24		1.61	1
3.0		31.54	0.73		0.04	0.75	0.26	0.06	1.19		1.63	1
5.0	11.20	31.54										
9.0		31.55	1.05		0.04	0.98	0.31	0.08	1.56		1.49	1
10.0	11.04	31.55										
13.0	11.02	31.55										
15.0		31.55	1.36	14.82	0.00	1.27	0.36	0.11	2.18	23.14	1.60	1
0.0	11.72	31.54	0.77		0.00	1.13	0.28	0.04	0.58		0.75	6

STATION BB268-033 PHYTOPLANKTON DATA

DATE 8/02/60 HR 2200 LAT 66-09 N LONG 167-03 W
SDG 16 SCD 5.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.24	31.31	0.59		0.00	0.68	0.14	0.10	1.45		2.45	1
2.0		31.31	0.70		0.03	0.68	0.20	0.09	0.51		0.72	1
5.0	10.32	31.31										
7.0		31.32	0.58		0.01	0.84	0.18	0.05	0.58		1.00	1
10.0	10.32	31.34										
13.0	10.36	31.36										
14.0		31.37	0.77	9.23	0.01	0.63	0.22	0.08	0.90	9.89	1.16	1
0.0	10.24	31.31	0.59		0.00	0.68	0.14	0.10	0.03		0.05	6

STATION BB268-035 PHYTOPLANKTON DATA

DATE 8/03/60 HR 0820 LAT 66-15 N LONG 168-53 W
SDG 55 SCD 3.5 LY/HR 61.44 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.60	32.31	13.61		0.00	11.62	2.61	0.56	33.30		2.45	1
2.0		32.36	15.27		0.00	12.38	3.09	0.44	42.64		2.79	1
5.0	5.13	32.43										
6.0		32.44	26.33		0.00	20.01	4.84	0.83	87.36		3.32	1
10.0	4.90	32.46										
12.0		32.53	26.92	271.84	0.00	19.07	6.14	0.44	99.93	897.82	3.71	1
15.0	3.58	32.63										
0.0	5.60	32.31	13.61		0.00	11.62	2.61	0.56	32.36		2.37	6

STATION BB268-036 PHYTOPLANKTON DATA

DATE 8/03/60 HR 1355 LAT 66-48 N LONG 168-52 W
SDG 45 SCD 9.5 LY/HR 52.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.64	31.47	0.41		0.00	0.51	0.14	0.05	1.13		2.76	1
4.0		31.49	0.34		0.10	0.45	0.19	0.03	1.09		3.20	1
5.0	10.15	31.49										
10.0	9.57	31.54										
13.0		31.75	0.95		0.00	0.65	0.26	0.07	2.32		2.44	1
15.0	4.21	31.89										
20.0	4.14	31.89										
25.0	3.69	31.89										
26.0		31.89	0.94	19.62	0.00	1.08	0.08	0.22	1.07	41.78	1.13	1
30.0	3.60	31.90										
0.0	10.64	31.47	0.41		0.00	0.51	0.14	0.05	1.35		3.29	6

STATION BB268-037 PHYTOPLANKTON DATA

DATE 8/03/60 HR 1830 LAT 66-44 N LONG 168-03 W
SDG 30 SCD 12.0 LY/HR 4.02 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.38	31.76	0.77		0.15	2.80	0.02	0.22	0.61		0.79	1
5.0	7.11	31.76	0.77		0.00	2.03	0.15	0.15	0.80		1.03	1
10.0	6.18	31.75										
15.0	5.64	31.74										
16.0		31.74	1.50		0.12	3.47	0.14	0.28	1.18		0.78	1
20.0	5.57	31.75										
25.0	4.96	31.77										
28.0	7.41	31.79	2.57	40.75	0.00	1.48	0.57	0.22	1.52	30.68	0.59	1
0.0	7.38	31.76	0.77		0.15	2.80	0.02	0.22	0.31		0.40	6

STATION BB268-041 PHYTOPLANKTON DATA

DATE 8/04/60 HR 0935 LAT 66-47 N LONG 165-02 W
SDG 24 SCD 18.0 LY/HR 64.62 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.22	31.25	0.29		0.00	0.67	0.06	0.14	0.53		1.82	1
5.0	10.03	31.25										
7.0		31.25	0.26		0.05	0.44	0.17	0.02	0.35		1.34	1
10.0	9.72	31.25										
15.0	8.20	31.37	0.49		0.00	0.75	0.07	0.12	0.44		0.90	1
20.0	7.94	31.34										
24.0		31.34	3.43	22.60	0.00	3.15	1.05	0.31	1.87	16.62	0.54	1
0.0	10.22	31.25	0.29		0.00	0.67	0.06	0.14	0.37		1.28	6

STATION BB268-042 PHYTOPLANKTON DATA

DATE 8/04/60 HR 1345 LAT 67-04 N LONG 164-32 W
SDG 28 SCD 18.5 LY/HR 22.68 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	13.23	26.20	0.30		0.07	0.58	0.06	0.12	0.43		1.43	1
5.0	10.43	30.96										
8.0		31.05	0.09		0.00	0.78	0.02	0.05	0.15		1.67	1
10.0	10.00	31.10										
15.0	6.91	31.28										
16.0		31.28	0.60		0.00	1.54	0.19	0.12	0.57		0.94	1
20.0	6.80	31.30										
24.0		31.29	1.25	11.72	0.00	1.67	0.49	0.05	0.86	10.95	0.69	1
25.0	6.64	31.29										
0.0	13.23	26.20	0.30		0.07	0.58	0.06	0.12	0.52		1.73	6

STATION BB268-043 PHYTOPLANKTON DATA

DATE 8/04/60 HR 1920 LAT 67-19 N LONG 164-08 W
 SDG 21 SCD 13.5 LY/HR 0.36 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.80	30.21	0.20		0.00	0.80	0.04	0.13	0.18		0.90	1
5.0	7.73	31.28										
6.0		31.35	0.28		0.06	0.55	0.00	0.17	0.20		0.72	1
10.0	7.89	31.57										
12.0		31.59	0.39		0.02	0.65	0.05	0.11	0.21		0.53	1
15.0	7.88	31.64										
18.0	7.82	31.65										
20.0		31.66	0.81	8.25	0.00	2.44	0.06	0.17	0.86	6.64	1.06	1
0.0	10.80	30.21	0.20		0.00	0.80	0.04	0.13	0.13		0.65	6

STATION BB268-045 PHYTOPLANKTON DATA

DATE 8/05/60 HR 0520 LAT 67-18 N LONG 166-04 W
 SDG 38 SCD 13.0 LY/HR 3.90 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.32	31.70	0.28		0.04	0.77	0.04	0.12	0.69		2.46	1
5.0	8.30	31.69	0.28		0.00	0.00	0.07	0.07	0.67		2.3	1
10.0	7.06	31.71										
15.0	3.56	32.01										
18.0		32.00	0.67		0.00	0.74	0.10	0.09	1.13		1.68	1
20.0	3.32	32.00										
25.0	3.31	32.01										
30.0	3.32	32.01										
35.0	3.30	32.01	2.28	32.59	0.00	1.34	0.40	0.24	1.96	41.27	0.86	1
0.0	8.32	31.70	0.28		0.04	0.77	0.04	0.12	0.35		1.25	6

STATION BB268-046 PHYTOPLANKTON DATA

DATE 8/05/60 HR 0915 LAT 67-17 N LONG 167-05 W
SDG 44 SCD 9.5 LY/HR 40.92 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.54	31.89	0.41		0.00	0.29	0.00	0.16	0.75		1.83	1
4.0		31.88	0.61		0.00	0.00	0.12	0.06	1.01		1.65	1
5.0	6.50	31.88										
10.0	5.63	31.92										
13.0		31.95	0.92		0.00	0.95	0.03	0.18	1.19		1.29	1
15.0	4.30	31.98										
20.0	2.72	32.05										
25.0	2.70	32.05										
26.0		32.05	5.96	53.69	0.00	2.58	0.83	0.39	0.49	24.33	0.08	1
30.0	2.64	32.07										
0.0	6.54	31.89	0.41		0.00	0.29	0.00	0.16	1.03		2.51	6

STATION BB268-047 PHYTOPLANKTON DATA

DATE 8/05/60 HR 1340 LAT 67-16 N LONG 168-02 W
SDG 41 SCD 11.0 LY/HR 20.64 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.61	31.85	0.73		0.00	1.05	0.21	0.04	1.28		1.75	1
5.0	6.56	31.84	0.78		0.00	1.22	0.13	0.12	1.46		1.87	1
10.0	5.48	32.01										
15.0	3.54	32.09	1.44		0.00	1.39	0.25	0.14				
20.0	3.52	32.12										
25.0	3.38	32.12										
30.0	3.28	32.13	12.68	120.78	0.00	9.22	1.96	0.65	1.91	48.98	0.15	1
0.0	6.61	31.85	0.73		0.00	1.05	0.21	0.04	1.32		1.80	6

STATION BB268-048 PHYTOPLANKTON DATA

DATE 8/05/60 HR 1850 LAT 67-15 N LONG 169-05 W
 SDG 49 SCD 10.0 LY/HR 2.40 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.90	30.84	0.66		0.00	2.18	0.00	0.19	0.89		1.34	1
4.0		30.99	0.35		0.06	1.12	0.00	0.12	0.94		2.68	1
5.0	9.16	31.02										
10.0	8.18	31.31										
14.0		31.95	2.21		0.00	1.22	2.79	0.00	0.23		0.10	1
15.0	2.81	32.11										
20.0	2.75	32.13										
25.0	2.74	32.16										
27.0		32.16	2.89	47.96	0.00	0.50	3.29	0.00	2.79	29.13	0.96	1
30.0	2.70	32.16										
0.0	9.90	30.84	0.66		0.00	2.18	0.00	0.19	0.33		0.51	6

STATION BB268-049 PHYTOPLANKTON DATA

DATE 8/06/60 HR 0230 LAT 67-38 N LONG 167-17 W
 SDG 49 SCD 9.0 LY/HR 0.96 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.62	31.99	0.64		0.09	0.30	2.87	0.00	0.96		1.50	1
4.0		32.00							0.91			1
5.0	6.60	32.02										
10.0	4.81	32.06										
12.0		32.07	1.55		0.00	1.46	0.27	0.13	1.35		0.87	1
15.0	3.86	32.09										
20.0	3.00	32.12										
24.0		32.16	11.45	91.20	0.00	5.42	2.06	0.34	13.78	103.60	1.20	1
25.0	3.00	32.17										
0.0	6.62	31.99	0.64		0.09	0.30	2.87	0.00	0.29		0.46	6

STATION BB268-050 PHYTOPLANKTON DATA

DATE 8/06/60 HR 0730 LAT 67-48 N LONG 166-30 W
 SDG 49 SCD 13.0 LY/HR 41.04 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.98	31.81	0.56		0.03	0.27	0.10	0.09	0.89		1.59	1
5.0	7.93	31.82	0.46		0.00	0.77	0.12	0.08	0.85		1.85	1
10.0	6.87	31.90										
15.0	3.90	32.03										
18.0		32.05	0.69		0.06	0.26	0.17	0.08	1.11		1.60	1
20.0	3.14	32.06										
25.0	2.82	32.05										
30.0	2.59	32.04										
35.0		32.04	1.60	29.54	0.02	0.62	0.24	0.21	0.99	34.97	0.62	1
40.0	2.49	32.04										
0.0	7.98	31.81	0.56		0.03	0.27	0.10	0.09	0.89		1.59	6

STATION BB268-052 PHYTOPLANKTON DATA

DATE 8/06/60 HR 1230 LAT 67-57 N LONG 165-46 W
 SDG 32 SCD 15.0 LY/HR 32.46 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	11.12	30.43	0.25		0.05	0.80	0.00	0.18	0.48		1.92	1
5.0	10.80	30.49										
8.0		30.99	0.17		0.06	0.00	0.00	0.11	0.37		2.17	1
10.0	6.26	31.32										
15.0	6.52	31.54										
16.0		31.55	0.79		0.02	0.67	0.24	0.07	1.69		2.14	1
20.0	6.54	31.56										
25.0	6.54	31.56										
29.0		31.56	0.93	16.68	0.12	0.22	0.28	0.06	1.86	34.68	2.00	1
30.0	6.54	31.56										
0.0	11.12	30.43	0.25		0.05	0.80	0.00	0.18	0.47		1.88	6

STATION BB268-054 PHYTOPLANKTON DATA

DATE 8/07/60 HR 0215 LAT 68-21 N LONG 166-55 W
SDG 31 SCD 11.0 LY/HR 2.10 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.96	30.10	0.00		0.10	0.00	0.06	0.00	0.35			1
4.0		30.22	0.14		0.05	0.09	0.06	0.03	0.35		2.50	1
5.0	10.68	30.29										
10.0	9.22	31.02										
15.0	9.06	31.08	0.35		0.11	0.00	0.13	0.00	0.56		1.59	1
20.0	7.90	31.39										
25.0	7.80	31.41										
28.0	7.78	31.42										
30.0		31.42	0.76	11.31	0.15	0.00	0.19	0.05	0.85	16.93	1.12	1
0.0	10.96	30.10	0.00		0.10	0.00	0.06	0.00	0.12			6

STATION BB268-055 PHYTOPLANKTON DATA

DATE 8/07/60 HR 0705 LAT 68-16 N LONG 167-56 W
SDG 46 SCD 15.5 LY/HR 16.74 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.52	32.08	0.39		0.05	0.89	0.00	0.12	0.68		1.75	1
5.0	6.38	32.10										
6.0		32.10	0.44		0.08	0.20	0.04	0.08	0.61		1.38	1
10.0	5.00	32.10										
15.0	2.52	32.11										
20.0	2.52	32.11										
21.0		32.11	1.33		0.11	0.25	0.11	0.22	0.90		0.68	1
25.0	2.50	32.11										
30.0	2.44	32.11										
35.0	2.40	32.11										
40.0	2.40	32.11										
42.0		32.11	1.21	42.46	0.00	0.90	0.08	0.23	0.75	32.54	0.62	1
43.0	2.41	32.11										
0.0	6.52	32.08	0.39		0.05	0.89	0.00	0.12	0.68		1.75	6

STATION BB268-056 PHYTOPLANKTON DATA

DATE 8/07/60 HR 1200 LAT 68-11 N LONG 168-55 W
SDG 56 SCD 11.5 LY/HR 31.98 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.58	32.16	0.67		0.09	0.65	0.06	0.13	1.27		1.89	1
5.0	5.60	32.16	0.83		0.09	0.53	0.07	0.13	1.47		1.76	1
10.0	3.77	32.16										
15.0	3.46	32.17										
16.0		32.18	5.74		0.00	3.69	0.89	0.26	7.09		1.24	1
20.0	3.00	32.19										
25.0	2.86	32.28										
30.0	2.84	32.29										
32.0		32.29	4.38	120.79	0.00	0.33	0.71	0.27	3.69	140.16	0.84	1
40.0	2.86	32.30										
48.0		32.30	4.95		0.00	0.26	0.81	0.28	3.72		0.75	1
50.0	2.89	32.31										
0.0	5.58	32.16	0.67		0.09	0.65	0.06	0.13	1.68		2.50	6

STATION BB268-057 PHYTOPLANKTON DATA

DATE 8/07/60 HR 1630 LAT 68-34 N LONG 168-55 W
SDG 53 SCD 17.0 LY/HR 10.68 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.14	31.85	0.19		0.04	0.69	0.01	0.08	0.38		2.00	1
5.0	8.15	31.84										
7.0		31.85	0.29		0.07	0.06	0.04	0.05	0.36		1.24	1
10.0	8.14	31.85										
15.0	3.98	32.04										
20.0	2.54	32.05										
23.0		32.05	0.84		0.05	0.09	0.09	0.10	0.54		0.64	1
25.0	2.50	32.05										
30.0	2.49	32.05										
40.0	2.50	32.07										
46.0		32.08	1.01	32.00	0.03	0.89	0.03	0.27	0.28	19.31	0.28	1
50.0	2.48	32.08										
0.0	8.14	31.85	0.19		0.04	0.69	0.01	0.08	0.29		1.53	6

STATION BB268-058 PHYTOPLANKTON DATA

DATE 8/07/60 HR 2115 LAT 68-54 N LONG 168-55 W
SDG 52 SCD 15.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.02	31.69	0.47		0.03	0.19	0.09	0.06	0.40		0.85	1
5.0	8.00	31.69										
6.0		31.69	0.45		0.03	0.00	0.06	0.05	0.36		0.80	1
10.0	8.03	31.69										
15.0	7.56	31.77										
20.0	5.22	31.97	1.15		0.04	1.34	0.36	0.11	0.77		0.67	1
25.0	4.91	32.05										
30.0	3.92	32.00										
40.0	3.85	31.96	1.54	40.74	0.02	0.44	0.33	0.13	0.76	25.36	0.50	1
0.0	8.02	31.69	0.47		0.03	0.19	0.09	0.06	0.00		0.00	6

STATION BB268-059 PHYTOPLANKTON DATA

DATE 8/08/60 HR 0130 LAT 68-53 N LONG 167-44 W
SDG 47 SCD 15.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.23	31.07	0.30		0.21	0.36	0.00	0.13	0.27		0.90	1
5.0	9.22	31.08										
6.0		31.08	0.38		0.00	0.09	0.07	0.09	0.29		0.76	1
10.0	8.91	31.08										
15.0	7.28	31.56										
20.0	5.69	31.74	0.72		0.00	0.47	0.15	0.17	0.36		0.51	1
25.0	5.48	31.75										
30.0	5.38	31.76										
40.0	5.32	31.78										
41.0		31.78	2.14	39.69	0.00	0.66	0.58	0.19	1.10	21.52	0.51	1
45.0	5.30	31.78										
0.0	9.23	31.07	0.30		0.21	0.36	0.00	0.13	0.04		0.13	6

STATION BB268-060 PHYTOPLANKTON DATA

DATE 8/08/60 HR 0530 LAT 68-52 N LONG 167-08 W
SDG 43 SCD 15.0 LY/HR 4.62 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.67	30.09	0.26		0.04	0.42	0.02	0.12	0.44		1.69	1
5.0	9.65	30.09										
6.0		30.15	0.26		0.05	0.44	0.01	0.11	0.50		1.93	1
10.0	9.22	30.41										
15.0	8.66	30.93										
20.0	8.50	31.27	0.31		0.06	0.53	0.04	0.11	0.46		1.48	1
25.0	6.82	31.55										
30.0	6.28	31.64										
40.0	4.26	31.90	1.39	22.53	0.00	0.84	0.39	0.08	1.22	26.38	0.88	1
0.0	9.67	30.09	0.26		0.04	0.42	0.02	0.12	0.21		0.81	6

STATION BB268-062 PHYTOPLANKTON DATA

DATE 8/08/60 HR 1445 LAT 69-09 N LONG 165-03 W
SDG 22 SCD 14.0 LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.97	30.78	0.29		0.08	0.33	0.06	0.09	0.34		1.17	1
5.0	6.62	30.81										
6.0		30.86	0.28		0.06	0.55	0.03	0.10	0.49		1.75	1
10.0	6.48	31.01	0.36		0.04	0.49	0.03	0.11	0.46		1.28	1
15.0	5.46	31.30										
20.0	5.78	31.80	0.55	7.58	0.12	0.50	0.03	0.14	0.64	9.88	1.15	1

STATION BB268-063 PHYTOPLANKTON DATA

DATE 8/08/60 HR 1930 LAT 69-17 N LONG 166-02 W
 SDG 32 SCD 17.5 LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.34	30.89	0.35		0.05	0.50	0.00	0.12	0.27		0.76	1
5.0	8.32	30.89										
7.0		30.94	0.20		0.00	0.10	0.00	0.09	0.25		1.25	1
10.0	8.20	31.01										
15.0	7.84	31.09										
20.0	5.02	31.80	0.51		0.01	0.68	0.01	0.18	0.37		0.72	1
25.0	4.26	31.90										
30.0	4.03	31.91	1.90	18.57	0.00	1.70	0.33	0.19	1.58	15.60	0.83	1

STATION BB268-064 PHYTOPLANKTON DATA

DATE 8/08/60 HR 2355 LAT 69-26 N LONG 167-03 W
 SDG 41 SCD 10.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.12	29.96	0.47		0.06	0.35	0.08	0.12	0.49		1.04	1
5.0	9.11	29.96	0.44		0.06	0.38	0.02	0.15	0.43		0.98	1
10.0	7.70	31.21										
15.0	6.02	31.72										
17.0		31.77	0.46		0.06	0.67	0.00	0.19	0.29		0.63	1
20.0	5.18	31.84										
25.0	4.42	31.90										
30.0	3.62	31.95										
34.0		31.95	0.68	17.30	0.06	0.57	0.10	0.11	0.61	14.38	0.90	1
35.0	3.60	31.95										
0.0	9.12	29.96	0.47		0.06	0.35	0.08	0.12	0.07		0.15	6

STATION BB268-065 PHYTOPLANKTON DATA

DATE 8/09/60 HR 0430 LAT 69-34 N LONG 164-02 W
SDG 49 SCD 12.5 LY/HR 0.66 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.34	30.40	0.58		0.04	0.62	0.12	0.19	0.96		1.65	1
5.0	8.31	30.44	0.61		0.00	0.73	0.11	0.17	0.94		1.54	1
10.0	5.24	31.94										
15.0	5.02	31.95										
17.0		31.95	0.31		0.03	0.40	0.00	0.19	0.46		1.48	1
20.0	4.90	31.95										
25.0	3.75	31.97										
30.0	1.80	32.02										
34.0		32.02	0.77	17.78	0.00	0.47	0.13	0.13	0.62	22.29	0.81	1
40.0	1.33	32.03										
0.0	8.34	30.40	0.58		0.04	0.62	0.12	0.19	0.31		0.53	6

STATION BB268-066 PHYTOPLANKTON DATA

DATE 8/09/60 HR 0900 LAT 69-43 N LONG 169-00 W
SDG 50 SCD 19.0 LY/HR 7.74 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.08	31.06	0.20		0.06	0.47	0.00	0.13	0.19		0.94	1
5.0	7.04	31.09										
8.0		31.39	0.24		0.04	0.15	0.01	0.12	0.24		1.00	1
10.0	6.65	31.59										
15.0	6.11	31.70										
20.0	4.73	32.01										
25.0	3.04	32.04										
26.0		32.05	0.76		0.04	0.51	0.18	0.11	1.13		1.49	1
30.0	2.32	32.09										
35.0	2.00	32.09										
40.0	1.95	32.09										
45.0	1.95	32.08										
48.0		32.08	0.93	29.38	0.08	0.58	0.08	0.24	0.55	32.47	0.59	1
0.0	7.08	31.06	0.20		0.06	0.47	0.00	0.13	0.14		0.70	6

STATION BB268-068 PHYTOPLANKTON DATA

DATE 8/09/60 HR 1535 LAT 70-18 N LONG 168-52 W
SDG 41 SCD 26.0 LY/HR 4.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	4.42	30.66	0.04		0.06	1.03	0.00	0.13	0.12		3.00	1
5.0	4.24	30.73										
6.0		30.73	0.09		0.05	0.32	0.00	0.14	0.13		1.44	1
10.0	4.22	30.73										
15.0	4.17	30.74										
19.0		30.77	0.12		0.06	0.12	0.00	0.09	0.14		1.16	1
20.0	3.50	30.78										
25.0	-1.24	32.24										
30.0	-1.58	32.68										
35.0	-1.64	32.74										
38.0		32.81	12.58	122.38	0.00	4.32	2.97	0.16	9.96	98.42	0.79	1
40.0	-1.64	32.86										
0.0	4.42	30.66	0.04		0.06	1.03	0.00	0.13	0.06		1.50	6

STATION BB268-069 PHYTOPLANKTON DATA

DATE 8/09/60 HR 2030 LAT 70-28 N LONG 167-45 W
SDG 50 SCD 22.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.77	30.54	0.16		0.10	0.65	0.01	0.14	0.15		0.94	1
5.0	5.72	30.56										
9.0		30.56	0.30		0.13	0.93	0.00	0.15	0.17		0.56	1
10.0	5.70	30.56										
15.0	5.64	30.57										
20.0	2.41	31.24										
25.0	-1.03	32.44	2.20		0.07	2.36	0.23	0.22	1.89		0.86	1
30.0	-1.06	32.46										
40.0	-1.14	32.49										
48.0	-1.14	32.51										
49.0		32.51	4.94	107.72	0.00	3.21	1.12	0.14	2.56	71.33	0.51	1
0.0	5.77	30.54	0.16		0.10	0.65	0.01	0.14	0.03		0.19	6

STATION BB268-070 PHYTOPLANKTON DATA

DATE 8/10/60 HR 0030 LAT 70-38 N LONG 166-37 W
SDG 40 SCD 18.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.48	30.49	0.28		0.11	0.50	0.01	0.18	0.15		0.53	1
5.0	5.52	30.53										
7.0		30.56	0.27		0.02	0.31	0.00	0.12	0.16		0.59	1
10.0	5.60	30.60										
15.0	4.66	30.86										
20.0	2.70	31.66										
24.0		32.10	0.71		0.04	0.73	0.02	0.13	0.60		0.85	1
25.0	-0.64	32.21										
30.0	-0.94	32.39										
35.0	-0.94	32.42										
38.0	-0.92	32.42										
39.0		32.41	2.08	31.10	0.00	1.26	0.37	0.23	1.45	22.92	0.70	1
0.0	5.48	30.49	0.28		0.11	0.50	0.01	0.18	0.01		0.03	6

STATION BB268-071 PHYTOPLANKTON DATA

DATE 8/10/60 HR 0625 LAT 70-48 N LONG 165-31 W
SDG 42 SCD 18.0 LY/HR 8.64 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.86	28.09	0.24		0.00	0.12	0.00	0.12	0.19		0.79	1
5.0	2.79	29.41										
6.0	3.60	29.73	0.29		0.03	0.10	0.05	0.07	0.31		1.07	1
7.0	1.22	30.05										
8.0	3.52	30.39										
9.0	4.74	30.62										
10.0	4.94	30.73										
11.0	4.90	30.70										
12.0	4.24	31.03										
13.0	3.59	31.38										
15.0	3.52	31.45										
20.0	3.60	31.70	0.32		0.02	0.08	0.07	0.07	0.17		0.53	1
25.0	3.34	31.83										
30.0	2.34	32.15										
35.0	-0.64	32.53										
40.0	-0.61	32.54	3.13	40.38	0.00	1.66	0.59	0.16	1.24	18.97	0.39	1
0.0	0.86	28.09	0.24		0.00	0.12	0.00	0.12	0.25		1.04	6

STATION BB268-073 PHYTOPLANKTON DATA

DATE 8/10/60 HR 1730 LAT 70-33 N LONG 165-31 W
SDG 46 SCD 15.0 LY/HR 1.44 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.49	28.15	0.12		0.37	0.00	0.00	0.11	0.17		1.41	1
5.0	0.52	28.85										
6.0		29.15	0.24		0.34	0.11	0.00	0.12	0.35		1.46	1
10.0	2.95	30.33										
15.0	4.20	31.53										
20.0	4.50	31.90	0.22		0.32	0.00	0.01	0.13	0.15		0.68	1
25.0	2.98	32.09										
30.0	0.62	32.34										
40.0	0.25	32.48										
41.0		32.48	3.63	44.64	0.00	1.59	0.88	0.14	1.31	20.51	0.36	1
43.0	0.24	32.49										
0.0	1.49	28.15	0.12		0.37	0.00	0.00	0.11	0.12		1.00	6

STATION BB268-074 PHYTOPLANKTON DATA

DATE 8/10/60 HR 2230 LAT 70-18 N LONG 163-33 W
SDG 30 SCD 12.5 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.84	30.86	0.25		0.09	0.36	0.02	0.13	0.27		1.08	1
5.0	8.56	30.89	0.24		0.03	0.33	0.02	0.10	0.21		0.88	1
10.0	5.85	30.99										
15.0	5.72	31.46										
17.0		31.64	0.24		0.04	0.15	0.05	0.08	0.29		1.20	1
20.0	6.18	31.92										
25.0	4.09	32.21										
28.0	4.02	32.21	2.06	16.79	0.00	1.03	0.43	0.13	1.40	13.53	0.68	1
0.0	5.84	30.86	0.25		0.09	0.36	0.02	0.13	0.01		0.04	6

STATION BB268-075 PHYTOPLANKTON DATA

DATE 8/11/60 HR 0330 LAT 70-04 N LONG 162-46 W
SDG 15 SCD 3.5 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.00	32.06	1.64		0.39	0.03	0.36	0.20	2.52		1.54	1
2.0		30.78	1.88		0.28	0.57	0.42	0.18	2.70		1.43	1
5.0	6.96	28.85	1.88		0.33	0.51	0.40	0.18	2.37		1.26	1
10.0	6.82	32.10										
11.0		32.10	1.93	61.17	0.37	0.78	0.37	0.20	2.81	28.35	1.46	1
14.0	6.79	32.09										
0.0	7.00	32.06	1.64		0.39	0.03	0.36	0.20	0.43		0.26	6

STATION BB268-076 PHYTOPLANKTON DATA

DATE 8/11/60 HR 1500 LAT 69-51 N LONG 165-04 W
SDG 33 SCD 20.0 LY/HR 16.80 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.70	31.05	0.29		0.03	0.39	0.05	0.15	0.30		1.03	1
5.0	7.70	31.05										
8.0		31.05	0.24		0.04	0.15	0.07	0.06	0.34		1.41	1
10.0	7.67	31.06										
15.0	7.33	31.18										
20.0	6.79	31.22										
25.0	3.26	31.69										
27.0		31.72	3.15		0.07	1.87	0.62	0.18	2.61		0.83	1
30.0	2.76	31.77										
33.0	2.74	31.77	4.41	57.10	0.00	2.63	0.88	0.23	3.30	48.36	0.74	1
0.0	7.70	31.05	0.29		0.03	0.39	0.05	0.15	0.31		1.07	6

STATION BB268-077 PHYTOPLANKTON DATA

DATE 8/11/60 HR 2245 LAT 69-47 N LONG 166-59 W
SDG 46 SCD 15.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.15	30.01	0.49		0.08	0.48	0.13	0.11	0.34		0.69	1
5.0	9.15	30.00										
6.0		30.02	0.48		0.10	0.61	0.12	0.09	0.31		0.64	1
10.0	9.07	30.11										
15.0	5.73	31.83										
20.0	4.60	31.90	0.99		0.00	0.50	0.29	0.10	0.85		0.86	1
25.0	4.06	31.91										
30.0	4.02	31.91										
35.0	4.02	31.91										
40.0	4.04	31.91										
41.0		31.91	1.11	35.35	0.00	0.67	0.31	0.12	0.89	28.42	0.80	1
43.0	4.04	31.91										
0.0	9.15	30.01	0.49		0.08	0.48	0.13	0.11	0.04		0.08	6

STATION BB268-087 PHYTOPLANKTON DATA

DATE 8/16/60 HR 1745 LAT 66-34 N LONG 163-12 W
SDG 22 SCD 10.5 LY/HR 21.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.78	25.28	0.37		0.09	0.42	0.13	0.09	0.38		1.03	1
4.0		29.62	0.46		0.04	0.54	0.16	0.07	0.42		0.91	1
5.0	12.20	30.70										
10.0	11.66	31.03										
14.0		31.15	0.87		0.16	0.71	0.23	0.14	0.76		0.87	1
15.0	10.41	31.18										
20.0	6.73	31.40	1.64	15.87	0.13	0.82	0.47	0.13	1.97	15.68	1.20	1
0.0	12.78	25.28	0.37		0.09	0.42	0.13	0.09	0.13		0.34	6

STATION BB268-092 PHYTOPLANKTON DATA

DATE 8/17/60 HR 0850 LAT 67-03 N LONG 163-38 W
SDG 13 SCD 4.5 LY/HR 47.64 (TECH 6) 44.22 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.95	17.90	1.18		0.08	0.46	0.25	0.16	2.31		1.96	1
2.0		18.22	1.28		0.18	0.70	0.23	0.20	2.14		1.68	1
5.0	12.80	18.69										
6.0		21.15	1.06		0.15	0.76	0.29	0.15	1.47		1.38	1
10.0	6.16	30.99										
11.0		30.99	2.00	14.79	0.00	1.05	0.55	0.17	3.29	23.58	1.64	1
0.0	12.95	17.90	1.18		0.08	0.46	0.25	0.16	1.61		1.36	6
0.0	12.95	17.90	1.18		0.08	0.46	0.25	0.16	1.70		1.44	5
6.0		21.15	1.06		0.15	0.76	0.29	0.15	0.38		0.35	5
11.0		30.99	2.00		0.00	1.05	0.55	0.17	0.09		0.04	5

STATION BB268-093 PHYTOPLANKTON DATA

DATE 8/17/60 HR 1525 LAT 67-03 N LONG 163-38 W
SDG 13 SCD 3.0 LY/HR 16.32 (TECH 6) 11.58 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	12.82	17.31	2.41		0.08	0.97	0.40	0.26	3.30		1.37	1
2.0		17.64	2.41		0.04	0.76	0.43	0.27	3.12		1.29	1
5.0	12.91	18.14	1.45		0.00	0.00	0.41	0.15	2.56		1.76	1
10.0	7.04	30.78										
11.0		30.99	1.83	20.44	0.08	0.68	0.52	0.18	2.89	31.27	1.58	1
0.0	12.82	17.31	2.41		0.08	0.97	0.40	0.26	2.42		1.00	6
0.0	12.82	17.31	2.41		0.08	0.97	0.40	0.26	2.40		0.99	5
2.0		17.64	2.41		0.04	0.76	0.43	0.27	1.00		0.42	5
5.0	12.91	18.14	1.45		0.00	0.00	0.41	0.15	0.16		0.11	5
11.0		30.99	1.83		0.08	0.68	0.52	0.18	0.13		0.08	5

STATION BB268-098 PHYTOPLANKTON DATA

DATE 8/19/60 HR 0900 LAT 67-30 N LONG 165-52 W
SDG 40 SCD 7.5 LY/HR 58.08 (TECH 6) 58.08 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.68	31.75	2.47		0.11	1.58	0.54	0.18	4.78		1.94	1
3.0		31.75	2.51		0.03	1.62	0.52	0.23	4.49		1.78	1
5.0	6.64	31.75										
10.0	6.90	31.79	3.49		0.00	2.01	0.77	0.25	6.00		1.72	1
15.0	5.05	31.86										
20.0	4.92	31.90	2.56	58.70	0.00	1.66	0.47	0.26	2.87	94.93	1.12	1
0.0	6.68	31.75	2.47		0.11	1.58	0.54	0.18	4.36		1.76	6
0.0	6.68	31.75	2.47		0.11	1.58	0.54	0.18	3.04		1.23	5
3.0		31.75	2.51		0.03	1.62	0.52	0.23	3.71		1.48	5
10.0	6.90	31.79	3.49		0.00	2.01	0.77	0.25	2.54		0.72	5
20.0	4.92	31.90	2.56		0.00	1.66	0.47	0.26	0.12		0.05	5

STATION BB268-099 PHYTOPLANKTON DATA

DATE 8/19/60 HR 1415 LAT 67-30 N LONG 165-50 W
SDG 40 SCD 5.5 LY/HR 31.98 (TECH 6) 26.58 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.17	31.74	2.18		0.11	1.73	0.40	0.33	2.12		0.97	1
2.0		31.74	2.28		0.60	1.20	0.39	0.32	2.22		0.97	1
5.0	7.13	31.74										
7.0		31.78	2.04		0.70	1.59	0.42	0.30	3.54		1.74	1
10.0	5.23	31.84										
15.0	5.09	31.86	1.57	29.69	0.00	0.42	0.33	0.16	2.99	44.88	1.90	1
0.0	7.17	31.74	2.18		0.11	1.73	0.40	0.33	2.23		1.02	6
0.0	7.17	31.74	2.18		0.11	1.73	0.40	0.33	2.04		0.93	5
2.0		31.74	2.28		0.60	1.20	0.39	0.32	4.62		2.02	5
7.0		31.78	2.04		0.70	1.59	0.42	0.30	0.18		0.09	5
15.0	5.07	31.86	1.57		0.00	0.42	0.33	0.16	1.75		1.12	5

STATION BB268-101 PHYTOPLANKTON DATA

DATE 8/19/60 HR 2230 LAT 67-33 N LONG 165-47 W
SDG 43 SCD 5.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.84	31.75	2.04		0.14	2.26	0.35	0.29	1.72		0.84	1
2.0		31.75	2.13		0.02	2.07	0.38	0.28	1.93		0.90	1
5.0	6.84	31.75										
7.0		31.77	1.96		0.05	1.28	0.55	0.18	2.08		1.06	1
10.0	5.40	31.83										
14.0		31.85	2.59	30.33	0.01	1.56	0.56	0.22	2.78	30.70	1.07	1
15.0	5.18	31.85										
0.0	6.84	31.75	2.04		0.14	2.26	0.35	0.29	0.37		0.18	6

STATION BB268-102 PHYTOPLANKTON DATA

DATE 8/20/60 HR 0245 LAT 67-34 N LONG 165-46 W
SDG 43 SCD 4.5 LY/HR 1.20 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.55	31.76	2.36		0.08	1.74	0.42	0.30	3.18		1.34	1
2.0		31.76	2.70		0.02	2.07	0.56	0.34	3.19		1.18	1
5.0	6.52	31.76										
7.0		31.79	2.58		0.09	1.96	0.54	0.33	3.28		1.27	1
10.0	5.42	31.82										
14.0		31.84	2.52	36.11	0.02	1.14	0.49	0.28	4.93	51.28	1.96	1
15.0	5.18	31.85										
0.0	6.55	31.76	2.36		0.08	1.74	0.42	0.30	0.47		0.20	6

STATION BB268-103 PHYTOPLANKTON DATA

DATE 8/20/60 HR 0745 LAT 67-36 N LONG 165-44 W
SDG 42 SCD 7.5 LY/HR 51.54 (TECH 6) 53.58 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.54	31.76	2.33		0.19	1.35	0.49	0.24	3.22		1.37	1
3.0		31.76	2.33		0.06	1.29	0.56	0.15	3.41		1.46	1
5.0	6.54	31.76										
10.0	6.40	31.76	2.40		0.09	1.44	0.47	0.26	3.89		1.62	1
15.0	5.21	31.84										
20.0	5.06	31.86	2.78	49.45	0.00	1.87	0.49	0.31	3.54	72.68	1.27	1
0.0	6.54	31.76	2.33		0.19	1.35	0.49	0.24	5.75		2.46	6
0.0	6.54	31.76	2.33		0.19	1.35	0.49	0.24	2.04		0.88	5
3.0		31.76	2.33		0.06	1.29	0.56	0.15	2.98		1.28	5
10.0	6.40	31.76	2.40		0.09	1.44	0.47	0.26	2.20		0.92	5
20.0	5.06	31.86	2.78		0.00	1.87	0.49	0.31	0.20		0.08	5

STATION BB268-104 PHYTOPLANKTON DATA

DATE 8/20/60 HR 1400 LAT 67-36 N LONG 165-41 W
SDG 40 SCD 7.5 LY/HR 37.32 (TECH 6) 30.30 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.24	31.82	2.22		0.00	1.54	0.44	0.23	2.32		1.04	1
3.0		31.82	2.11		0.00	1.43	0.46	0.20	2.31		1.10	1
5.0	6.28	31.81										
10.0	5.97	31.84	2.80		0.12	1.90	0.65	0.26	4.06		1.45	1
15.0	5.52	31.82										
20.0	5.24	31.84	1.62	45.80	0.10	0.89	0.29	0.24	1.66	57.88	1.03	1
0.0	6.24	31.82	2.22		0.00	1.54	0.44	0.23	2.33		1.05	6
0.0	6.24	31.82	2.22		0.00	1.54	0.44	0.23	2.16		0.97	5
3.0		31.82	2.11		0.00	1.43	0.46	0.20	2.34		1.11	5
10.0	5.97	31.84	2.80		0.12	1.90	0.65	0.26	1.33		0.47	5
20.0	5.24	31.84	1.62		0.10	0.89	0.29	0.24	0.08		0.05	5

STATION BB268-106 PHYTOPLANKTON DATA

DATE 8/20/60 HR 1945 LAT 67-39 N LONG 165-44 W
SDG 42 SCD 6.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.83	31.76	1.77		0.38	1.32	0.38	0.23	2.09		1.18	1
2.0		31.77	1.94		0.00	0.71	0.32	0.19	2.26		1.16	1
5.0	6.74	31.78										
8.0		31.79	2.51		0.12	1.27	0.39	0.28	2.43		0.96	1
10.0	6.09	31.80										
15.0	5.43	31.83										
16.0		31.84	4.38	44.61	0.02	2.12	0.70	0.31	5.53	50.24	1.26	1
20.0	5.30	31.84										
0.0	6.83	31.76	1.77		0.38	1.32	0.38	0.23	1.25		0.71	6

STATION BB268-107 PHYTOPLANKTON DATA

DATE 8/20/60 HR 2310 LAT 67-41 N LONG 165-46 W
SDG 43 SCD LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.71	30.92	0.79		0.06	0.93	0.18	0.19	0.74		0.93	1
3.0		30.98	1.16		0.16	1.34	0.43	0.21	1.23		1.06	1
5.0	8.52	31.07										
10.0	5.96	31.80	2.44		0.28	2.11	0.48	0.31	3.52		1.44	1
15.0	5.34	31.84										
20.0	5.28	31.84	2.21	31.37	0.11	1.39	0.33	0.33	0.18	38.11	0.08	1
0.0	9.71	30.92	0.79		0.06	0.93	0.18	0.19	0.00		0.00	6

STATION BB268-113 PHYTOPLANKTON DATA

DATE 8/21/60 HR 1435 LAT 67-46 N LONG 165-54 W
 SDG 41 SCD 7.0 LY/HR 36.18 (TECH 6) 26.94 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	9.78	31.32	1.17		0.22	1.65	0.08	0.37	1.05		0.90	1
3.0		31.59	1.25		0.24	1.85	0.13	0.36	1.50		1.20	1
5.0	6.69	31.77										
10.0	5.58	31.82	2.41		0.05	1.24	0.61	0.23	3.53		1.46	1
15.0	5.30	31.83										
19.0		31.84	3.65	43.72	0.00	1.76	0.72	0.30	3.29	52.15	0.90	1
0.0	9.48	31.32	1.17		0.22	1.65	0.08	0.37	0.93		0.79	6
0.0	9.48	31.32	1.17		0.22	1.65	0.08	0.37	0.86		0.73	5
3.0		31.59	1.25		0.24	1.85	0.13	0.36	1.15		0.92	5
10.0	5.58	31.82	2.41		0.05	1.24	0.61	0.23	1.21		0.51	5
19.0		31.84	3.65		0.00	1.76	0.72	0.30	0.09		0.03	5
20.0	5.22	31.85										

STATION BB268-115 PHYTOPLANKTON DATA

DATE 8/22/60 HR 0040 LAT 67-49 N LONG 166-00 W
 SDG 51 SCD LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.08	31.08	1.10		0.02	1.34	0.24	0.26	1.04		0.94	1
3.0		31.48	0.96		0.02	0.79	0.28	0.18	1.16		1.20	1
5.0	6.80	31.74										
10.0	5.92	31.81	2.10		0.16	1.49	0.42	0.29	2.95		1.40	1
15.0	5.56	31.83										
20.0	5.49	31.83	3.30	40.78	0.07	1.15	0.64	0.24	3.73	51.07	1.13	1
0.0	10.08	31.08	1.10		0.02	1.34	0.24	0.26	0.01		0.01	6

STATION BB268-215 PHYTOPLANKTON DATA

DATE 8/22/60 HR 0250 LAT 67-49 N LONG 166-00 W
SDG 51 SCD LY/HR 4.74 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.08	31.32	0.99		0.04	0.96	0.24	0.19	1.66		1.68	1
3.0		31.57	1.32		0.08	1.01	0.26	0.27	1.87		1.41	1
5.0	6.80	31.74										
10.0	5.92	31.81	1.92		0.03	1.59	0.45	0.26	2.14		1.12	1
15.0	5.56	31.83										
20.0	5.49	31.83	3.79	43.33	0.00	2.23	0.85	0.24	5.96	59.86	1.57	1
0.0	10.08	31.32	0.99		0.04	0.96	0.24	0.19	0.38		0.38	6

STATION BB268-116 PHYTOPLANKTON DATA

DATE 8/22/60 HR 0455 LAT 67-51 N LONG 166-04 W
SDG 51 SCD 7.5 LY/HR 25.02 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.18	31.56	0.95		0.49	0.46	0.23	0.21	1.63		1.72	1
3.0		31.67	1.32		0.49	0.75	0.27	0.26	2.35		1.77	1
5.0	6.80	31.75										
10.0	6.18	31.82	2.03		0.04	1.69	0.41	0.27	3.07		1.51	1
15.0	5.76	31.84										
20.0	5.41	31.83	4.28	46.70	0.00	2.57	0.95	0.26	5.38	67.19	1.25	1
0.0	8.18	31.56	0.95		0.49	0.46	0.23	0.21	1.11		1.16	6

STATION BB268-216 PHYTOPLANKTON DATA

DATE 8/22/60 HR 0715 LAT 67-51 N LONG 166-04 W
SDG 51 SCD 7.0 LY/HR 44.64 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.18	31.56	1.33		0.06	1.30	0.43	0.26	2.01		1.51	1
3.0		31.67	1.43		0.00	1.05	0.19	0.34	2.29		1.59	1
5.0	6.80	31.75										
10.0	6.18	31.82	1.78		0.03	1.04	0.33	0.27	3.51		1.97	1
15.0	5.76	31.84										
19.0		31.83	3.15	37.56	0.00	1.96	0.52	0.31	4.45	62.59	1.41	1
0.0	8.18	31.56	1.33		0.06	1.30	0.43	0.26	1.48		1.12	6

STATION BB268-316 PHYTOPLANKTON DATA

DATE 8/22/60 HR 0930 LAT 67-51 N LONG 166-07 W
SDG 48 SCD 7.0 LY/HR 59.40 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.07	31.21	0.92		0.00	0.90	0.18	0.21	1.62		1.76	1
3.0		31.61	1.04		0.00	0.80	0.25	0.17	2.11		2.02	1
5.0	6.63	31.78										
10.0	6.00	31.84	2.44		0.00	11.77	0.38	0.12	4.29		1.76	1
15.0	5.59	31.83										
19.0		31.83	3.54	42.10	0.00	1.65	0.64	0.26	5.76	73.21	1.63	1
20.0	5.36	31.83										
0.0	10.07	31.21	0.92		0.00	0.90	0.18	0.21	1.45		1.57	6

STATION BB268-117 PHYTOPLANKTON DATA

DATE 8/22/60 HR 1150 LAT 67-52 N LONG 166-09 W
SDG 48 SCD 7.0 LY/HR 50.64 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.07	31.21	1.16		0.05	1.13	0.13	0.28	1.27		1.10	1
3.0		31.55	1.11		0.01	0.87	0.34	0.13	1.98		1.78	1
5.0	6.63	31.78										
10.0	6.00	31.84	2.26		0.06	1.16	0.58	0.20	3.55		1.57	1
15.0	5.59	31.83										
19.0		31.83	3.83	42.60	0.00	2.00	0.83	0.20	4.95	62.50	1.29	1
20.0	5.36	31.83										
0.0	10.07	31.21	1.16		0.05	1.13	0.13	0.28	1.16		1.00	6

STATION BB268-118 PHYTOPLANKTON DATA

DATE 8/22/60 HR 1545 LAT 67-54 N LONG 166-15 W
SDG 47 SCD 7.0 LY/HR 7.62 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.62	31.54	1.03		0.03	0.93	0.27	0.20	1.78		1.73	1
3.0		31.68	1.11		0.00	0.94	0.36	0.19	1.83		1.65	1
5.0	6.47	31.79										
10.0	5.59	31.82	2.40		0.12	1.17	0.54	0.20	3.71		1.54	1
15.0	5.25	31.84										
19.0		31.85	2.64	38.17	0.00	1.60	0.52	0.23	2.80	54.11	1.06	1
20.0	5.24	31.86										
0.0	8.62	31.54	1.03		0.03	0.93	0.27	0.20	1.23		1.19	6

STATION BB268-120 PHYTOPLANKTON DATA

DATE 8/22/60 HR 1730 LAT 67-53 N LONG 166-17 W
SDG 53 SCD 7.0 LY/HR 1.98 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.21	31.65	1.26		0.12	1.59	0.19	0.34	1.76		1.39	1
3.0		31.72	1.31		0.07	1.76	0.24	0.28	1.92		1.46	1
5.0	6.53	31.77										
10.0	5.71	31.83	2.25		0.10	1.36	0.54	0.25	2.33		1.03	1
15.0	5.36	31.83										
19.0		31.84	5.33	50.42	0.00	2.21	1.11	0.35	5.94	57.59	1.12	1
20.0	5.18	31.85										
0.0	8.21	31.65	1.26		0.12	1.59	0.19	0.34	0.47		0.37	6

STATION BB268-121 PHYTOPLANKTON DATA

DATE 8/22/60 HR 1935 LAT 67-56 N LONG 166-20 W
SDG 48 SCD 8.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.68	30.98	0.68		0.05	0.75	0.00	0.34	0.72		1.06	1
3.0		31.48	0.88		0.04	0.86	0.29	0.18	0.82		0.93	1
5.0	6.54	31.81										
10.0	5.68	31.83										
11.0		31.83	1.76		0.13	1.17	0.48	0.21	2.22		1.26	1
15.0	5.31	31.84										
20.0	5.25	31.89										
22.0		31.90	2.47	36.18	0.00	1.37	0.57	0.25	2.58	40.88	1.04	1
25.0	5.34	31.92										
0.0	10.68	30.98	0.68		0.05	0.75	0.00	0.34	0.02		0.03	6

STATION BB268-221 PHYTOPLANKTON DATA

DATE 8/22/60 HR 2145 LAT 67-56 N LONG 166-20 W
SDG 48 SCD 8.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.68	30.86	0.80		0.06	0.92	0.27	0.16	0.58		0.72	1
3.0		31.39	1.34		0.09	1.46	0.22	0.25	1.47		1.10	1
5.0	6.54	31.81										
10.0	5.68	31.83										
11.0		31.83	3.60		0.06	1.30	0.95	0.15	4.32		1.20	1
15.0	5.31	31.84										
20.0	5.25	31.89										
22.0		31.90	2.05	54.08	0.00	0.82	0.44	0.20	2.41	63.27	1.17	1
25.0	5.34	31.92										
0.0	10.68	30.86	0.80		0.06	0.92	0.27	0.16	0.00		0.00	6

STATION BB268-122 PHYTOPLANKTON DATA

DATE 8/22/60 HR 2350 LAT 67-57 N LONG 166-27 W
SDG 47 SCD LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.70	30.74	0.63		0.00	0.54	0.15	0.15	0.76		1.20	1
3.0		31.33	0.85		0.00	0.96	0.17	0.23	0.85		1.00	1
5.0	7.11	31.73										
10.0	5.86	31.82										
11.0		31.83	1.77		0.15	0.89	0.42	0.28	2.24		1.26	1
15.0	5.48	31.87										
20.0	5.46	31.91										
22.0		31.91	1.73	31.92	0.01	1.34	0.38	0.23	2.01	38.13	1.15	1
25.0	5.48	31.92										
0.0	10.70	30.74	0.63		0.00	0.54	0.15	0.15	0.03		0.05	6

STATION BB268-238 PHYTOPLANKTON DATA

DATE 8/25/60 HR 1230 LAT 67-38 N LONG 166-00 W
SDG 40 SCD 5.0 LY/HR 22.56 (TECH 6) 24.90 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.33	31.61	3.14		0.20	1.98	0.79	0.41	3.51		1.12	1
2.0		31.61	1.80		0.09	1.41	0.48	0.21	3.50		1.94	1
5.0	7.32	31.60										
7.0		31.60	1.99		0.07	1.45	0.58	0.20	3.30		1.66	1
10.0	7.32	31.60										
14.0		31.63	1.94	28.16	0.19	1.61	0.43	0.28	3.50	47.82	1.80	1
0.0	7.33	31.61	3.14		0.20	1.98	0.79	0.41	2.99		0.94	6
0.0	7.33	31.61	3.14		0.20	1.98	0.79	0.41	3.03		0.96	5
2.0		31.61	1.80		0.09	1.41	0.48	0.21	3.09		1.72	5
7.0		31.60	1.99		0.07	1.45	0.58	0.20	1.00		0.51	5
14.0		31.63	1.94		0.19	1.61	0.43	0.28	0.19		0.10	5
15.0	6.88	31.64										
20.0	6.58	31.66										
25.0	6.43	31.67										

STATION BB268-142 PHYTOPLANKTON DATA

DATE 8/27/60 HR 1730 LAT 65-42 N LONG 168-24 W
SDG 32 SCD 6.0 LY/HR 0.00 (TECH 6)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.30	31.56	3.39		0.00	1.57	0.91	0.12	2.93		0.86	1
2.0		31.56	3.27		0.00	1.70	0.85	0.13	2.95		0.90	1
5.0	7.28	31.56										
8.0		31.56	3.58		0.19	1.63	1.00	0.15	2.88		0.80	1
10.0	7.29	31.56										
15.0	7.30	31.56										
16.0		31.57	3.38	55.05	0.00	1.90	0.85	0.16	2.99	46.84	0.89	1
20.0	7.12	31.58										
0.0	7.30	31.56	3.39		0.00	1.57	0.91	0.12	0.00		0.00	6

STATION SU420-001 PHYTOPLANKTON DATA

DATE 7/13/61 HR 1840 LAT 65-31.0N LONG 167-52.0W
SDG 20 SCD 4.5 LY/HR 3.39 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.20		0.34	5
1.8	1.85	31.48	0.61		0.13	0.19	0.00	0.15	0.27		0.44	5
6.1	1.85	31.50	0.70		0.08	0.01	0.14	0.05	0.29		0.42	5
12.2	1.85	31.49	0.59	7.79	0.08	0.00	0.12	0.03	0.02	2.58	0.03	5
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.14		0.25	7
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.11		0.19	7
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.01		0.02	7
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.23		0.40	7
0.0	1.85	31.49	0.57		0.07	0.30	0.09	0.10	0.24		0.42	8
1.8	1.85	31.48	0.61		0.13	0.19	0.00	0.15	0.38		0.62	8
6.1	1.85	32.50	0.70		0.08	0.01	0.14	0.05	0.43		0.61	8
12.2	1.85	31.49	0.59		0.08	0.00	0.12	0.03	0.38		0.64	8

STATION SU420-002 PHYTOPLANKTON DATA

DATE 7/15/61 HR 1030 LAT 68-29.0N LONG 166-50.0W
SDG 15 SCD 9.5 LY/HR 17.10 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.10	26.91	0.30		0.01	0.26	0.00	0.16	0.53		1.76	5
3.8	5.90	27.12	0.21		0.02	0.01	0.08	0.00	0.33		1.57	5
12.8	1.35	29.92	10.44	48.88	0.00	2.87	3.28	0.00	1.51	9.95	0.14	5
0.0	6.10	26.91	0.30		0.01	0.26	0.00	0.16	0.34		1.13	7
0.0	6.10	26.91	0.30		0.01	0.26	0.00	0.16	0.11		0.36	7
3.8	5.90	27.12	0.21		0.02	0.01	0.08	0.00	0.47		2.24	8
12.8	1.35	29.92	10.44		0.00	2.87	3.28	0.00	2.00		0.19	8

STATION SU420-003 PHYTOPLANKTON DATA

DATE 7/16/61 HR 1530 LAT 68-18.0N LONG 166-50.0W
SDG 20 SCD 7.0 LY/HR 5.23 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	7.20	24.22	0.25		0.00	0.10	0.05	0.03	0.28		1.12	5
2.8	7.20	24.42	0.37		0.00	0.16	0.08	0.04	0.32		0.86	5
9.5	3.65	30.66	0.31		0.01	0.08	0.06	0.03	0.11		0.35	5
19.0	3.50	30.06	0.30	6.03	0.00	0.00	0.09	0.00	0.02	2.88	0.07	5
0.0	7.20	24.22	0.25		0.00	0.10	0.05	0.03	0.30		1.20	7
0.0	7.20	24.22	0.25		0.00	0.10	0.05	0.03	0.06		0.24	7
9.5	3.65	30.66	0.31		0.01	0.08	0.06	0.03	0.29		0.93	8
19.0	3.50	30.06	0.30		0.00	0.00	0.09	0.00	0.29		0.96	8

STATION SU420-004 PHYTOPLANKTON DATA

DATE 7/17/61 HR 0945 LAT 68-18.0N LONG 166-50.0W
SDG 20 SCD 11.0 LY/HR 34.40 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.50	28.92	0.20		0.00	0.09	0.06	0.01	0.73		3.65	5
4.5	4.20	31.33	0.35		0.19	0.00	0.07	0.03	0.69		1.97	5
14.9	2.80	31.36	0.26		0.02	0.32	0.08	0.04	0.57		2.19	5
18.9	2.80	31.38	0.30	5.58	0.01	0.45	0.03	0.07	0.42	11.67	1.40	5
0.0	5.50	28.92	0.20		0.00	0.09	0.06	0.01	0.58		2.90	7
0.0	5.50	28.92	0.20		0.00	0.09	0.06	0.01	0.23		1.15	7
0.0	5.50	28.92	0.20		0.00	0.09	0.06	0.01	0.14		0.70	7
4.5	4.20	31.33	0.35		0.19	0.00	0.07	0.03	0.77		2.19	8
14.9	2.80	31.36	0.26		0.02	0.32	0.08	0.04	0.65		2.50	8
18.9	2.80	31.38	0.30		0.01	0.45	0.03	0.07	0.65		2.16	8

STATION SU420-005 PHYTOPLANKTON DATA

DATE 7/18/61 HR 1200 LAT 65-45.0N LONG 168-40.0W
SDG 51 SCD 9.0 LY/HR 10.44 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	3.80	32.14	4.79		0.00	2.16	1.05	0.00	6.04		1.26	5
3.6	3.80	32.13	4.89		0.00	2.06	1.01	0.05	4.77		0.97	5
12.2	3.60	32.14	6.46		0.00	2.89	1.29	0.08	2.20		0.33	5
24.4	2.40	32.18	5.78	140.86	0.00	2.05	1.18	0.06	0.18	63.99	0.03	5
0.0	3.80	32.14	4.79		0.00	2.16	1.05	0.00	5.08		1.06	7
0.0	3.80	32.14	4.79		0.00	2.16	1.05	0.00	1.87		0.38	7
0.0	3.80	32.14	4.79		0.00	2.16	1.05	0.00	0.07		0.01	7
3.6	3.80	32.13	4.89		0.00	2.06	1.01	0.05	5.35		1.10	8
12.2	3.60	32.14	6.46		0.00	2.89	1.29	0.08	5.77		0.90	8
24.4	2.40	32.18	5.78		0.00	2.05	1.18	0.06	6.04		1.04	8

STATION SU420-006 PHYTOPLANKTON DATA

DATE 7/19/61 HR 1000 LAT 66-16.0N LONG 166-12.0W
SDG 11 SCD 3.5 LY/HR 14.64 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	10.00	32.14	0.92		0.00	0.63	0.17	0.06	3.51		3.81	5
1.4	9.45	32.41	1.05		0.00	0.53	0.22	0.06	2.62		2.50	5
4.7	8.30	30.15	0.76		0.00	0.84	0.12	0.09	0.59		0.77	5
9.5	7.90	30.41	0.66	7.76	0.02	0.28	0.15	0.02	0.05	11.11	0.08	5
0.0	10.00	32.14	0.92		0.00	0.63	0.17	0.06	2.74		2.98	7
0.0	10.00	32.14	0.92		0.00	0.63	0.17	0.06	0.83		0.90	7
0.0	10.00	32.14	0.92		0.00	0.63	0.17	0.06	0.05		0.05	7
1.4	9.45	32.41	1.05		0.00	0.53	0.22	0.06	2.94		2.79	8
4.7	8.30	30.15	0.76		0.00	0.84	0.12	0.09	2.72		3.58	8
9.5	7.90	30.41	0.66		0.02	0.28	0.15	0.02	2.27		3.44	8

STATION SU420-007 PHYTOPLANKTON DATA

DATE 7/20/61 HR 0915 LAT 66-16.0N LONG 166-12.0W
 SDG 11 SCD 4.5 LY/HR 29.76 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.50	30.73	1.00		0.02	0.44	0.21	0.05	2.50		2.50	5

STATION SU420-008 PHYTOPLANKTON DATA

DATE 7/21/61 HR 1020 LAT 66-16.0N LONG 166-12.0W
 SDG 11 SCD 4.0 LY/HR 32.22 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	8.90	31.02	0.97		0.05	0.29	0.06	0.18	3.39		3.49	5

STATION SU420-009 PHYTOPLANKTON DATA

DATE 4/21/61 HR 2115 LAT 66-15.7N LONG 168-12.8W
SDG 53 SCD 11.5 LY/HR 16.74 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.17	30.83	0.36		0.02	0.35	0.06	0.02	0.41		1.13	5
4.7	5.17	30.82	0.49		0.03	0.52	0.09	0.06	0.51		1.04	5
15.6	5.17	31.71	0.64		0.10	0.99	0.05	0.10	0.32		0.51	5
31.2	5.17	31.73	1.00	20.96	0.00	0.51	0.18	0.07	0.15	10.31	0.15	5
0.0	5.17	30.83	0.36		0.02	0.35	0.06	0.02	0.36		1.00	7
0.0	5.17	30.83	0.36		0.02	0.35	0.06	0.02	0.19		0.52	7
0.0	5.17	30.83	0.36		0.02	0.35	0.06	0.02	0.04		0.11	7
4.7	5.17	30.82	0.49		0.03	0.52	0.09	0.06	0.48		0.98	8
15.6	5.17	31.71	0.64		0.10	0.99	0.05	0.10	0.74		1.15	8
31.2	5.17	31.73	1.00		0.00	0.51	0.18	0.07	0.71		0.71	8

STATION SU420-010 PHYTOPLANKTON DATA

DATE 7/22/61 HR 1730 LAT 67-49.8N LONG 168-09.3W
SDG 53 SCD 22.5 LY/HR 13.62 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	3.95	31.77	0.11		0.00	0.32	0.02	0.05	0.08		0.72	5
9.0	3.10	31.78	0.22		0.02	0.28	0.01	0.07	0.09		0.41	5
30.0	1.20	32.18	1.61		0.00	0.71	0.25	0.09	0.55		0.33	5
51.0	1.65	32.18	34.33	398.23	0.00	16.71	6.92	0.53	3.22	47.11	0.10	5

STATION SU420-011 PHYTOPLANKTON DATA

DATE 7/22/61 HR 2145 LAT 67-20.2N LONG 168-29.9W
 SDG 46 SCD 20.0 LY/HR 17.46 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.90	32.23	0.99		0.00	0.86	0.20	0.02	1.35		1.36	5
8.1	2.50	32.44	1.32		0.00	0.56	0.25	0.00	1.51		1.14	5
27.1	2.20	32.11	3.88		0.00	1.91	0.72	0.06	2.14		0.55	5
44.0	1.60	32.12	3.84	124.00	0.00	1.57	0.83	0.06	0.27	66.60	0.08	5

STATION SU420-012 PHYTOPLANKTON DATA

DATE 7/23/61 HR 1800 LAT 66-15.7N LONG 168-12.8W
 SDG 53 SCD 12.5 LY/HR 12.24 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	6.10	30.86	0.35		0.00	0.06	0.09	0.01	0.41		1.16	5
5.1	5.80	30.94	0.30		0.00	0.29	0.08	0.03	0.31		1.03	5
16.9	3.90	31.57	0.46		0.00	0.30	0.10	0.03	0.08		0.17	5
33.9	3.90	31.59	0.58	14.91	0.00	0.36	0.08	0.07	0.02	5.07	0.03	5
0.0	6.10	30.86	0.35		0.00	0.06	0.09	0.01	0.35		1.00	7
0.0	6.10	30.86	0.35		0.00	0.06	0.09	0.01	0.12		0.33	7
0.0	6.10	30.86	0.35		0.00	0.06	0.09	0.01	0.01		0.03	7
5.1	5.80	30.94	0.30		0.00	0.29	0.08	0.03	0.35		1.16	8
16.9	3.90	31.57	0.46		0.00	0.30	0.10	0.03	0.28		0.60	8
33.9	3.90	31.59	0.58		0.00	0.36	0.08	0.07	0.29		0.51	8

STATION SU420-013 PHYTOPLANKTON DATA

DATE 7/24/61 HR 1845 LAT 67-06.4N LONG 168-49.6W
 SDG 47 SCD 5.5 LY/HR 5.40 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.80	32.16	3.00		0.00	1.98	0.56	0.13	2.25		0.75	5
2.2	2.80	32.05	1.75		0.00	0.87	0.38	0.03	1.08		0.61	5
7.4	2.80	32.05	1.98		0.00	0.89	0.42	0.06	0.32		0.16	5
14.9	2.80	32.10	1.82	29.24	0.00	0.89	0.38	0.05	0.05	8.71	0.03	5
0.0	2.80	32.13	3.00		0.00	1.98	0.56	0.13	1.30		0.43	7
0.0	2.80	32.13	3.00		0.00	1.98	0.56	0.13	0.52		0.17	7
0.0	2.80	32.13	3.00		0.00	1.98	0.56	0.13	0.03		0.01	7
2.2	2.80	32.05	1.75		0.00	0.87	0.38	0.03	1.13		0.64	8
7.4	2.80	32.05	1.98		0.00	0.89	0.42	0.06	1.50		0.75	8
14.9	2.80	32.10	1.82		0.00	0.89	0.38	0.05	1.93		1.06	8

STATION CH562-011 PHYTOPLANKTON DATA

DATE 5/05/62 HR 0935 LAT 68-05.8N LONG 165-45.1W
SDG 8 SCD LY/HR 14.22 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0		32.43	0.06		0.00	0.00	0.00	0.08	0.00		0.00	5
2.0		32.45	0.10		0.05	0.17	0.00	0.08	0.00		0.00	5
4.0		32.45	0.12		0.05	0.39	0.00	0.08	0.00		0.00	5
6.0		32.46	0.11	0.61	0.00	0.30	0.00	0.10	0.00	0.00	0.00	5
0.0		32.43	0.10		0.05	0.17	0.00	0.08	0.00		0.00	7
0.0		32.43	0.12		0.05	0.39	0.00	0.08	0.00		0.00	7
0.0		32.43	0.11		0.00	0.30	0.00	0.10	0.00		0.00	7
2.0		32.45	0.06		0.00	0.00	0.00	0.08	0.00		0.00	8
4.0		32.45	0.06		0.00	0.00	0.00	0.08	0.00		0.00	8
6.0		32.46	0.11		0.00	0.30	0.00	0.10	0.00		0.00	8

STATION CH562-022 PHYTOPLANKTON DATA

DATE 5/12/62 HR 1045 LAT 68-05.0N LONG 165-45.5W
SDG 14 SCD LY/HR 21.42 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.71	32.33	0.15		0.00	0.07	0.00	0.07	0.01		0.07	5
3.0	-1.76	32.33	0.20		0.04	0.00	0.01	0.06	0.00		0.00	5
6.0	-1.77	32.35	0.13		0.00	0.03	0.00	0.07	0.00		0.00	5
12.0	-1.77	32.37	0.16	1.87	0.00	0.09	0.00	0.06	0.00	0.03	0.00	5
0.0	-1.71	32.33	0.15		0.00	0.07	0.00	0.07	0.00		0.00	7
0.0	-1.71	32.33	0.15		0.00	0.07	0.00	0.07	0.00		0.00	7
0.0	-1.71	32.33	0.15		0.00	0.07	0.00	0.07	0.00		0.00	7
3.0	-1.76	32.33	0.20		0.04	0.00	0.01	0.06	0.01		0.05	8
6.0	-1.77	32.35	0.13		0.00	0.03	0.00	0.07	0.01		0.08	8
12.0	-1.77	32.37	0.16		0.00	0.09	0.00	0.06	0.01		0.07	8

STATION CH562-041 PHYTOPLANKTON DATA

DATE 5/04/62 HR 1700 LAT 68-04.3N LONG 165-50.5W
 SDG 16 SCD LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0			0.31		0.00	1.16	0.02	0.09				
5.0			0.27		0.03	0.10	0.08	0.07				
10.0			0.27		0.00	0.18	0.00	0.11				
15.0			0.23	4.05	0.00	0.22	0.01	0.05				

STATION CH562-042 PHYTOPLANKTON DATA

DATE 5/06/62 HR 1130 LAT 68-04.3N LONG 165-50.5W
 SDG 16 SCD LY/HR 15.18 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.70	32.24	0.08		0.00	0.00	0.00	0.08	0.00		0.00	5
3.0	-1.72	32.26	0.04		0.00	0.12	0.03	0.04	0.00		0.00	5
6.0	-1.72	32.28	0.03		0.01	0.06	0.00	0.10	0.00		0.00	5
12.0	-1.74	32.29	0.20	1.01	0.05	0.40	0.00	0.34	0.01	0.04	0.05	5
0.0	-1.70	32.24	0.08		0.00	0.00	0.00	0.08	0.00		0.00	7
0.0	-1.70	32.24	0.08		0.00	0.00	0.00	0.08	0.00		0.00	7
0.0	-1.70	32.24	0.08		0.00	0.00	0.00	0.08	0.00		0.00	7
3.0	-1.72	32.26	0.04		0.00	0.12	0.03	0.04	0.01		0.25	8
6.0	-1.72	32.28	0.03		0.01	0.06	0.00	0.10	0.00		0.00	8
12.0	-1.74	32.29	0.20		0.05	0.40	0.00	0.34	0.00		0.00	8

STATION CH562-051 PHYTOPLANKTON DATA

DATE 5/07/62 HR 1600 LAT 68-03.2N LONG 165-43.6W
SDG 18 SCD LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.68	32.21	0.28		0.00	0.34	0.00	0.13				
5.0	-1.68	32.23	0.18		0.05	0.24	0.00	0.07				
10.0	-1.68	32.25	0.18		0.08	0.07	0.00	0.14				
15.0	-1.69	32.35	0.14	2.83	0.07	0.02	0.04	0.02				

STATION CH562-061 PHYTOPLANKTON DATA

DATE 5/08/62 HR 1630 LAT 68-01.3N LONG 165-45.3W
SDG 22 SCD LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.75	32.16	0.48		0.02	0.44	0.05	0.10			0.00	
5.0	-1.75	32.17										
10.0	-1.73	32.16	0.47		0.01	0.57	0.05	0.08			0.00	
15.0	-1.73	32.16	0.41	6.95	0.00	0.29	0.05	0.10			0.00	
20.0	-1.75											

STATION CH562-081 PHYTOPLANKTON DATA

DATE 5/09/62 HR 1100 LAT 68-04.0N LONG 165-45.7W
 SDG 17 SCD LY/HR 21.90 (TECH 5)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.64	32.34	0.16		0.03	0.50	0.00	0.11	0.04		0.25	5
5.0	-1.78	32.37	0.05		0.00	0.00	0.00	0.27	0.01		0.20	5
10.0	-1.77	32.39	0.12		0.00	0.08	0.01	0.04	0.01		0.08	5
15.0	-1.75	32.42	0.05	1.37	0.01	0.00	0.00	0.03	0.00	0.16	0.00	5
0.0	-1.64	32.34	0.16		0.03	0.50	0.00	0.11	0.00		0.00	7
0.0	-1.64	32.34	0.16		0.03	0.50	0.00	0.11	0.00		0.00	7
0.0	-1.64	32.34	0.16		0.03	0.50	0.00	0.11	0.00		0.00	7
5.0	-1.78	32.37	0.05		0.00	0.00	0.00	0.27	0.03		0.59	8
10.0	-1.77	32.39	0.12		0.00	0.08	0.01	0.04	0.08		0.67	8
15.0	-1.75	32.42	0.05		0.01	0.00	0.00	0.03	0.07		1.40	8

STATION CH562-091 PHYTOPLANKTON DATA

DATE 5/10/62 HR 1100 LAT 68-04.4N LONG 165-45.3W
 SDG 15 SCD LY/HR (TECH)

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.74	32.33	0.05		0.03	0.19	0.00	0.10				
0.0	-1.74	32.33	0.15		0.00	0.17	0.00	0.18				

STATION 31968-0 4 PHYTOPLANKTON DATA

DATE 10/06/62 HR 1555 LAT 66-04 N LONG 169-03 W SDG 51 SCD 9.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	3.46	31.82	0.74		0.00	0.03	0.32	0.00				
4.0			0.79		0.00	0.09	0.33	0.00				
5.0	3.46	31.82										
10.0	3.45	31.82										
13.0			0.78		0.00	0.00	0.34	0.00				
15.0	3.45	31.82										
20.0	3.44	31.83										
25.0	3.20	32.14	0.56	18.15	0.00	0.00	0.21	0.18				
30.0	2.71	32.60										
35.0	2.70	32.61										
40.0	2.69	32.61	1.04		0.00	0.00	0.34	0.14				

STATION 31968-010 PHYTOPLANKTON DATA

DATE 10/06/62 HR 1030 LAT 66-59 N LONG 165-58 W SDG 24 SCD 5.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	5.62	29.80	0.74		0.00	0.17	0.19	0.14				
2.0			0.58		0.00	0.00	0.20	0.09				
5.0	5.63	29.80										
7.0			0.67		0.05	0.00	0.19	0.06				
10.0	5.61	29.79										
13.0			0.64	8.35	0.01	0.00	0.20	0.06				
15.0	6.28	30.24										
18.0			0.68		0.00	0.19	0.18	0.15				
20.0	6.37	30.47										

STATION 31968-017 PHYTOPLANKTON DATA

DATE 10/10/62 HR 0920 LAT 69-34 N LONG 178-39 W SDG 44 SCD 10.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.47	28.93	1.80		0.00	0.12	0.71	0.02				
5.0	-1.28	29.18										
10.0	-0.61	30.91										
14.0			2.73		0.00	0.68	1.06	0.00				
15.0	-0.08	31.45										
20.0	0.36	31.87										
25.0	0.55	31.95										
27.0			1.00		0.00	0.14	0.37	0.00				
30.0	0.83	32.11										
35.0	0.46	32.35	1.05	64.19	0.00	0.05	0.35	0.04				

STATION 31968-018 PHYTOPLANKTON DATA

DATE 10/10/62 HR 1330 LAT 69-59 N LONG 178-00 W SDG 47 SCD 9.0												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.52	32.55	2.67		0.00	0.96	1.29	0.00				
4.0			2.83		0.00	0.91	1.31	0.00				
5.0	0.54	32.55										
10.0	0.52	32.55										
12.0			2.75		0.00	0.72	1.25	0.00				
15.0	0.54	32.55										
20.0	0.60	32.56										
24.0			2.53	64.97	0.00	0.79	1.04	0.00				
25.0	0.64	32.57										

STATION 31968-019 PHYTOPLANKTON DATA

DATE 10/10/62 HR 1730 LAT 70-01 N LONG 180-00 W SDG 44 SCD 9.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.10	30.45	1.99		0.00	0.39	0.76	0.00				
4.0			2.11		0.00	0.50	0.75	0.00				
5.0	-0.62	31.49										
10.0	-0.32	31.89										
12.0			1.04		0.00	0.13	0.42	0.00				
15.0	1.63	32.88										
20.0	1.16	32.87										
24.0			0.20	28.16	0.00	0.00	0.08	0.02				
25.0	1.01	32.89										

STATION 31968-022 PHYTOPLANKTON DATA

DATE 10/11/62 HR 1200 LAT 70-22 N LONG 169-55 E SDG 29 SCD 10.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.52	28.70	1.18		0.00	0.08	0.54	0.00				
4.0			0.36		0.00	0.00	0.18	0.00				
5.0	-1.54	28.66										
10.0	-1.58	28.65										
14.0			1.13		0.00	0.25	0.49	0.00				
15.0	-1.51	30.11										
20.0	-1.53	32.28										
27.0	-1.50											
28.0			0.53	22.14	0.00	0.00	0.17	0.06				

STATION 31968-024 PHYTOPLANKTON DATA

DATE 10/11/62 HR 1925 LAT 71-02 N LONG 170-02 E SDG 36 SCD 13.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.53	28.56	0.39		0.00	0.08	0.20	0.00				
5.0	-1.54	28.55	0.34		0.47	0.00	0.15	0.00				
10.0	-1.56	28.54										
15.0	-1.54	28.61										
18.0			0.51		0.00	0.10	0.25	0.00				
20.0	-1.55	28.66										
23.0			0.58	10.09	0.00	0.12	0.29	0.00				
25.0	-1.46	29.57										

STATION 31968-025 PHYTOPLANKTON DATA

DATE 10/12/62 HR 1330 LAT 71-30 N LONG 170-00 E SDG 38 SCD 21.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.52	28.75	0.54		0.00	0.14	0.24	0.00				
5.0	-1.54	28.73										
9.0			0.53		0.00	0.06	0.25	0.00				
10.0	-1.58	28.74										
15.0	-1.56	28.76										
19.0			0.59		0.00	0.26	0.27	0.00				
20.0	-1.51	29.64										
25.0	-1.68	32.88										
29.0			0.40	15.39	0.00	0.00	0.10	0.06				
30.0	-1.72	33.20										

STATION 31968-027 PHYTOPLANKTON DATA

DATE 10/13/62 HR 1005 LAT 69-52 N LONG 177-59 E SDG 44 SCD 13.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.59	28.68	0.68		0.00	0.05	0.22	0.02				
5.0	-1.50	28.75	0.55		0.00	0.00	0.22	0.00				
10.0	-1.32	29.66										
15.0	-1.09	30.20										
18.0			0.63		0.00	0.00	0.29	0.00				
20.0	-1.20	31.45										
25.0	-1.46	32.14										
30.0	-1.39	32.41										
35.0	-1.26	32.65										
36.0			0.54	21.29	0.00	0.00	0.14	0.18				
40.0	-1.09	32.72										

STATION 31968-029 PHYTOPLANKTON DATA

DATE 10/14/62 HR 1500 LAT 70-30 N LONG 178-00 E SDG 49 SCD 10.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.57	29.02	0.22		0.00	0.00	0.10	0.01				
4.0			0.24		0.00	0.00	0.10	0.02	*			
5.0	-1.56	29.02										
10.0	-1.53	29.56										
14.0			0.54		0.00	0.24	0.25	0.01	*			
15.0	-1.50	29.67										
20.0	-1.24	30.99										
25.0	-1.44	32.33										
27.0			0.12	9.12	0.00	0.05	0.02	0.08	*			
30.0	0.28	32.82										

STATION 31968-037 PHYTOPLANKTON DATA

DATE 10/14/62 HR 1325 LAT 72-00 N LONG 176-01 W SDG 69 SCD 11.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.76	31.97	2.19		0.00	0.75	0.94	0.00				
5.0	-1.74	31.95										
10.0	-1.76	31.93										
11.0			1.83		0.00	0.51	0.93	0.03				
15.0	-1.76	31.95										
20.0	-1.75	32.02										
25.0	-1.74	32.03	1.89	48.19	0.00	0.61	0.79	0.00				

STATION 31968-038 PHYTOPLANKTON DATA

DATE 10/14/62 HR 1555 LAT 71-46 N LONG 176-24 W SDG 41 SCD 11.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.72	32.10	1.93		0.00	1.11	0.85	0.00				
8.0	-1.72	32.10										
11.0			1.60		0.00	1.04	0.72	0.00				
16.0	-1.74	32.12										
24.0	-1.68	32.22										
25.0			2.13	45.58	0.00	0.72	0.97	0.00				
32.0	-1.70	32.90										

STATION 31968-039 PHYTOPLANKTON DATA

DATE 10/14/62 HR 1756 LAT 71-32 N LONG 176-33 W SDG 26 SCD 6.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-0.42	32.25	0.51		0.00	0.00	0.16	0.01				
2.0			0.45		0.00	0.00	0.15	0.00				
5.0	-0.40	32.26										
8.0			0.39		0.00	0.00	0.17	0.00				
10.0	-0.41	32.23										
15.0	-0.40	32.25										
16.0			0.42	6.71	0.00	0.00	0.13	0.01				
20.0	-0.40	32.26										

STATION 31968-046 PHYTOPLANKTON DATA

DATE 10/15/62 HR 1230 LAT 71-00 N LONG 174-00 W SDG 41 SCD 6.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.00	32.52	0.95		0.00	0.00	0.28	0.01				
2.0			1.01		0.00	0.00	0.32	0.02				
5.0	1.03	32.52										
8.0			1.00		0.00	0.00	0.32	0.00				
10.0	1.02	32.52										
15.0	1.00	32.54										
16.0			0.95	15.81	0.00	0.09	0.31	0.03				
20.0	1.06	32.68										

STATION 31968-050 PHYTOPLANKTON DATA

DATE 10/16/62 HR 1015 LAT 72-08 N LONG 164-03 W SDG 40 SCD 9.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.42	31.81	0.63		0.00	0.00	0.23	0.02				
4.0			0.66		0.00	0.00	0.23	0.01				
5.0	0.48	31.81										
10.0	0.50	31.81										
12.0			0.62		0.00	0.00	0.17	0.05				
15.0	0.52	31.81										
20.0	0.44	31.81										
24.0			0.67	15.51	0.00	0.00	0.25	0.01				
25.0	0.42	31.80										

STATION 31968-051 PHYTOPLANKTON DATA

DATE 10/16/62 HR 1405 LAT 72-00 N LONG 161-59 W SDG 29 SCD 9.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-0.24	31.33	0.55		0.00	0.04	0.19	0.03				
4.0			0.51		0.00	0.00	0.14	0.02				
5.0	-0.24	31.32										
10.0	-0.24	31.33										
12.0			0.52		0.00	0.00	0.16	0.02				
15.0	-0.20	31.33										
20.0	-0.12	31.37										
24.0			0.49	12.31	0.00	0.00	0.15	0.03				
27.0	-1.18	32.72										

STATION 31968-052 PHYTOPLANKTON DATA

DATE 10/16/62 HR 1800 LAT 72-00 N LONG 159-57 W SDG 41 SCD												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-0.78	30.90	0.50		0.00	0.00	0.12	0.02				
5.0	-0.78	30.89										
10.0	-0.80	30.89										
12.0			0.47		0.00	0.00	0.15	0.02				
15.0	-0.79	30.90										
20.0	-0.71	31.05										
24.0			0.55		0.00	0.00	0.22	0.01				
25.0	-1.24	32.75										
30.0	-1.28	32.76										
35.0	-1.27	32.76										
36.0			0.53	18.36	0.00	0.00	0.19	0.04				
39.0	-1.26	32.76										

STATION 31968-054 PHYTOPLANKTON DATA

DATE 10/17/62 HR 1000 LAT 71-57 N LONG 156-07 W SDG 61 SCD 10.5												
DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.50	29.49	0.58		0.00	0.01	0.21	0.02				
4.0			0.58		0.03	0.00	0.19	0.04				
5.0	-1.52	29.46										
10.0	-1.53	29.46										
14.0			0.61		0.00	0.00	0.23	0.03				
15.0	-1.30	29.52										
20.0	-0.29	29.87										
25.0	0.06	30.01										
28.0			0.35	14.99	0.04	0.29	0.12	0.03				
30.0	0.64	30.49										

STATION 31968-058 PHYTOPLANKTON DATA

DATE 10/18/62 HR 0830 LAT 70-58 N LONG 166-08 W SDG 41 SCD 8.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.84	32.05	0.72		0.00	0.00	0.27	0.01				
3.0			0.73		0.00	0.00	0.25	0.02				
5.0	0.86	32.04										
10.0	0.86	32.10										
15.0	0.98	32.13										
20.0	1.15	32.18										
23.0			0.50	14.49	0.00	0.00	0.16	0.03				
25.0	1.49	32.31										

STATION 31968-059 PHYTOPLANKTON DATA

DATE 10/18/62 HR 1250 LAT 71-00 N LONG 168-05 W SDG 45 SCD 6.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.50	32.36	0.81		0.00	0.34	0.31	0.03				
3.0			0.84		0.00	0.20	0.31	0.00				
5.0	0.50	32.35										
9.0			0.74		0.00	0.19	0.25	0.02				
10.0	0.49	32.36										
15.0	0.50	32.36										
17.0			0.65	12.79	0.00	0.00	0.26	0.00				
20.0	0.50	32.35										
25.0	0.51	32.36										
30.0	0.54	32.36										
34.0			0.76		0.00	0.00	0.04	0.12				
35.0	0.36	32.37										

STATION 31968-061 PHYTOPLANKTON DATA

DATE 10/18/62 HR 2000 LAT 71-00 N LONG 170-47 W SDG 40 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.64	32.34	0.69		0.00	0.00	0.23	0.00				
5.0	0.64	32.34	0.69		0.00	0.00	0.25	0.00				
10.0	0.63	32.35										
15.0	0.65	32.34										
20.0	0.64	32.34	0.60		0.00	0.00	0.24	0.00				
25.0	0.64	32.34										
30.0	0.65	32.35										
35.0	0.67	32.38	0.64	22.36	0.00	0.00	0.23	0.03				

STATION 31968-065 PHYTOPLANKTON DATA

DATE 10/19/62 HR 1150 LAT 70-01 N LONG 172-17 W SDG 31 SCD 10.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.10	30.52	0.70		0.03	0.00	0.18	0.04				
4.0			0.67		0.01	0.00	0.00	0.25				
5.0	1.12	30.52										
10.0	1.09	30.52										
14.0			1.51		0.00	0.61	0.55	0.00				
15.0	1.12	30.54										
20.0	1.24	30.79										
28.0	2.32	31.57	0.71	29.12	0.00	0.00	0.22	0.03				

STATION 31968-066 PHYTOPLANKTON DATA

DATE 10/19/62 HR 1715 LAT 70-02 N LONG 169-54 W SDG 35 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.38	31.30	0.19		0.00	0.00	0.09	0.00				
5.0	1.37	31.30										
6.0			0.22		0.00	0.00	0.10	0.00				
10.0	1.41	31.31										
15.0	1.42	31.31										
20.0	1.48	31.34	0.23		0.00	0.00	0.08	0.02				
25.0	1.64	31.46										
30.0	1.98	31.98	0.72	9.09	0.00	0.00	0.27	0.03				

STATION 31968-067 PHYTOPLANKTON DATA

DATE 10/19/62 HR 1940 LAT 70-03 N LONG 167-57 W SDG 47 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.51	31.65	0.31		0.03	0.09	0.10	0.07				
5.0	0.48	31.65	0.33		0.03	0.08	0.12	0.03				
10.0	0.73	31.76										
15.0	0.93	32.10	0.29		0.00	0.01	0.11	0.03				
20.0	1.32	32.16										
25.0	1.80	32.29										
30.0	1.98	31.38										
35.0	2.09	32.42	0.36	11.16	0.00	0.00	0.12	0.06				

STATION 31968-068 PHYTOPLANKTON DATA

DATE 10/19/62 HR 2310 LAT 70-03 N LONG 166-00 W SDG 44 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.32	31.34	0.11		0.00	0.02	0.05	0.03				
5.0	1.32	31.33	0.12		0.00	0.00	0.04	0.03				
10.0	1.30	31.34										
15.0	1.44	31.41	0.12		0.00	0.14	0.04	0.03				
20.0	1.62	31.44										
25.0	2.58	32.12										
30.0	2.60		0.31	5.02	0.00	0.00	0.08	0.07				
35.0	2.70	32.16										
40.0			0.40		0.00	0.00	0.11	0.07				
42.0	2.74	32.16										

STATION 31968-069 PHYTOPLANKTON DATA

DATE 10/20/62 HR 0250 LAT 70-04 N LONG 164-00 W SDG 29 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.28	32.15	0.27		0.00	0.24	0.07	0.05				
5.0	1.30	32.14	0.25		0.00	0.00	0.07	0.02				
10.0	1.26	32.14										
15.0	1.26	32.20	0.29		0.00	0.07	0.08	0.04				
20.0	0.38	32.46										
25.0			0.25	6.76	0.00	0.04	0.08	0.03				
27.0	-0.40	32.84										

STATION 31968-070 PHYTOPLANKTON DATA

DATE 10/20/62 HR 1220 LAT 69-00 N LONG 167-00 W SDG 46 SCD 4.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.17	30.57	0.78		0.00	0.01	0.21	0.07				
5.0	2.17	30.58	0.78		0.00	0.00	0.20	0.05				
10.0	2.18	30.57	0.84		0.00	0.00	0.23	0.08				
15.0	2.18	30.57										
20.0	2.17	30.58										
25.0	2.24	30.60	0.73	19.73	0.00	0.00	0.21	0.06				

STATION 31968-071 PHYTOPLANKTON DATA

DATE 10/20/62 HR 1455 LAT 69-00 N LONG 168-00 W SDG 49 SCD 3.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.38	30.19	0.50		0.00	0.00	0.11	0.07				
5.0	1.37	30.19										
6.0			0.63		0.00	0.00	0.16	0.04				
10.0	1.38	30.19										
15.0	1.38	30.20	0.67		0.00	0.00	0.17	0.05				
20.0	1.40	30.19										
25.0	1.60	30.25										
30.0	1.97	30.32										
35.0	2.65	30.44	0.61	22.12	0.00	0.00	0.17	0.04	*			

STATION 31968-080 PHYTOPLANKTON DATA

DATE 10/21/62 HR 1030 LAT 69-01 N LONG 177-00 W SDG 50 SCD 6.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.58	30.39	3.63		0.00	1.23	1.42	0.00				
7.0	-1.60	30.39										
9.0			3.18		0.00	1.34	1.25	0.00				
14.0	-1.54	30.60										
17.0			3.15		0.00	0.91	1.27	0.00				
21.0	-0.44	31.30										
28.0	-0.23	31.81										
35.0	-0.13	32.60	1.14	94.58	0.00	0.04	0.46	0.00				

STATION 31968-082 PHYTOPLANKTON DATA

DATE 10/21/62 HR 1645 LAT 68-30 N LONG 177-00 W SDG 43 SCD 6.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.56	29.91	2.98		0.00	0.90	1.07	0.00				
7.0	-1.59	29.92										
9.0			2.82		0.00	1.29	0.97	0.00				
14.0	-1.58	29.93										
17.0			2.96		0.00	0.60	1.05	0.00				
21.0	-1.44	30.01										
28.0	-0.36	32.14										
35.0	-0.04	32.82	0.84	83.36	0.00	0.02	0.22	0.09				

STATION 31968-084 PHYTOPLANKTON DATA

DATE 10/21/62 HR 2115 LAT 68-30 N LONG 175-01 W SDG 50 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-0.92	31.12	1.86		0.00	0.14	0.77	0.00				
5.0	-0.81	31.16										
10.0	-0.72	31.21	1.76		0.00	0.00	0.72	0.00				
15.0	-0.64	31.33										
20.0	-0.60	31.37	1.93		0.00	0.11	0.81	0.00				
25.0	-0.63	31.41										
30.0	-0.52	31.55										
35.0	-0.42	31.72										
40.0	-0.31	31.80	1.19	67.77	0.00	0.00	0.47	0.00				

STATION 31968-089 PHYTOPLANKTON DATA

DATE 10/22/62 HR 0915 LAT 68-32 N LONG 170-00 W SDG 56 SCD 7.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.84	30.63	0.81		0.00	0.00	0.29	0.06				
5.0	0.83	30.66										
10.0	0.86	30.66	0.74		0.00	0.15	0.23	0.05				
15.0	1.81	30.97										
20.0	2.38	31.58	0.82		0.00	0.00	0.29	0.04				
25.0	2.52	32.03										
30.0	2.18	32.10										
35.0	2.01	32.14										
40.0	2.67	32.58										
45.0	2.43	32.75	0.39	30.70	0.00	0.00	0.10	0.09				

STATION 31968-090 PHYTOPLANKTON DATA

DATE 10/22/62 HR 1035 LAT 68-29 N LONG 169-01 W SDG 56 SCD 5.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.64	30.40	0.69		0.01	0.00	0.25	0.02				
5.0	1.62	30.41										
10.0	1.65	30.41										
15.0	1.63	30.41	0.72		0.02	0.00	0.30	0.05				
20.0	1.64	30.42										
25.0	1.64	30.42										
30.0	3.40	31.39										
35.0	3.12	31.75										
40.0	2.30	32.31										
45.0	2.23	32.40										
50.0			1.58	50.75	0.00	0.00	0.39	0.21				
53.0	2.24	32.40										

STATION 31968-091 PHYTOPLANKTON DATA

DATE 10/22/62 HR 1300 LAT 68-29 N LONG 168-01 W SDG 53 SCD 5.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.42	30.36	0.58		0.00	0.00	0.17	0.04				
5.0	1.42	30.36										
7.0			0.67		0.00	0.00	0.19	0.04				
10.0	1.45	30.35										
13.0			0.77		0.00	0.00	0.22	0.05				
15.0	1.36	30.38										
20.0	1.52	30.42										
25.0	0.97	30.47										
30.0	1.36	30.59										
35.0	2.20	30.96										
40.0	3.15	31.71										
45.0	2.86	32.36	0.59	30.36	0.00	0.00	0.12	0.09				

STATION 31968-092 PHYTOPLANKTON DATA

DATE 10/22/62 HR 1505 LAT 68-30 N LONG 167-01 W SDG 30 SCD 2.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.62	30.23	0.85		0.00	0.00	0.21	0.10				
3.0			0.87		0.00	0.00	0.24	0.06				
5.0	0.60	30.22										
7.0			0.87		0.01	0.00	0.25	0.05				
10.0	0.61	30.22										
20.0	0.62	30.26										
25.0			0.85	21.60	0.00	0.00	0.22	0.10				
28.0	0.64	30.22										

STATION 31968-093 PHYTOPLANKTON DATA

DATE 10/22/62 HR 1915 LAT 67-59 N LONG 166-46 W SDG 53 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.11	30.01	0.89		0.00	0.00	0.38	0.00				
5.0	1.06	29.99	0.82		0.00	0.00	0.38	0.00				
10.0	1.10	29.99										
15.0	1.18	30.02	0.67		0.00	0.00	0.43	0.00				
20.0	3.00	30.61										
25.0	2.74	31.12										
30.0	2.52	32.13										
35.0	2.52	32.32										
40.0	2.56	32.28										
45.0	2.54	32.30	0.47	28.76	0.00	0.00	0.24	0.00				

STATION 31968-094 PHYTOPLANKTON DATA

DATE 10/22/62 HR 2145 LAT 68-00 N LONG 167-58 W SDG 55 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.86	30.77	0.83		0.00	0.00	0.34	0.02				
5.0	0.83	30.76	0.87		0.00	0.00	0.34	0.03				
10.0	0.86	30.76										
15.0	0.84	30.79	0.90		0.00	0.00	0.33	0.03				
20.0	0.86	30.79										
25.0	0.94	30.81										
30.0	1.82	31.45										
35.0	2.20	32.51										
40.0	1.62	32.76										
45.0	1.64	32.78	1.03	42.02	0.00	0.00	0.42	0.03				

STATION 31968-099 PHYTOPLANKTON DATA

DATE 10/23/62 HR 0815 LAT 68-02 N LONG 173-08 W SDG 47 SCD 8.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.12	31.15	0.78		0.00	0.00	0.25	0.06				
5.0	1.14	31.16										
10.0	1.12	31.16										
11.0			0.69		0.00	0.00	0.19	0.04				
15.0	1.12	31.15										
20.0	1.14	31.15										
21.0			0.68		0.00	0.00	0.23	0.03				
25.0	1.14	31.15										
30.0	1.44	31.23										
35.0	1.32	32.67										
40.0	1.21	32.86	0.97	30.55	0.00	0.00	0.25	0.14				

STATION 31968-1 2 PHYTOPLANKTON DATA

DATE 10/23/62 HR 1525 LAT 67-31 N LONG 173-55 W SDG 35 SCD 4.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	-1.44	29.47	0.31		0.00	0.00	0.27	0.00				
5.0	-1.46	29.47	0.00		0.00	0.00	0.35	0.00				
10.0	-0.79	29.95	0.33		0.00	0.00	0.41	0.00				
15.0	0.90	30.99										
20.0	1.92	31.35										
25.0	1.55	31.39	0.03	4.25	0.00	0.00	0.24	0.00				

STATION 31968-1 3 PHYTOPLANKTON DATA

DATE 10/23/62 HR 1840 LAT 67-30 N LONG 173-00 W SDG 47 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.76	31.10	0.54		0.00	0.00	0.14	0.06				
5.0	0.69	31.06	0.59		0.00	0.00	0.15	0.05				
10.0	0.78	31.06										
15.0	1.62	31.40										
20.0	1.72	31.46	0.75		0.00	0.00	0.20	0.08				
25.0	1.89	31.55										
30.0	1.91	31.55										
35.0	1.94	31.56										
40.0	1.99	31.70	1.00	30.35	0.00	0.00	0.28	0.14				

STATION 31968-1 9 PHYTOPLANKTON DATA

DATE 10/24/62 HR 0935 LAT 67-32 N LONG 166-58 W SDG 47 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.62	30.98	1.02		0.00	0.00	0.29	0.04				
5.0	0.60	30.97										
10.0	0.60	30.96	0.85		0.02	0.00	0.24	0.02				
15.0	0.60	30.96										
19.0			0.96		0.00	0.00	0.26	0.04				
20.0	0.60	30.97										
25.0	0.62	31.00										
30.0	2.22	31.62										
35.0	2.02	32.61										
40.0	1.17	32.94	0.74	35.17	0.00	0.00	0.16	0.11				

STATION 31968-110 PHYTOPLANKTON DATA

DATE 10/24/62 HR 1205 LAT 67-30 N LONG 165-57 W SDG 40 SCD 6.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.92	31.11	0.83		0.00	0.00	0.25	0.05				
5.0	1.92	31.09										
9.0			0.82		0.00	0.00	0.26	0.03				
10.0	1.92	31.10										
15.0	1.90	31.10										
17.0			0.86		0.00	0.00	0.32	0.05				
20.0	1.92	31.10										
25.0	1.93	31.11										
30.0	1.98	31.11										
35.0			0.90	29.97	0.00	0.00	0.22	0.13				
38.0	1.73	32.69										

STATION 31968-111 PHYTOPLANKTON DATA

DATE 10/24/62 HR 1505 LAT 67-00 N LONG 165-00 W SDG 26 SCD 5.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.30	31.00	0.77		0.00	0.00	0.24	0.04				
2.0			0.79		0.00	0.00	0.27	0.03				
5.0	2.28	31.00										
7.0			0.86		0.00	0.00	0.30	0.03				
10.0	2.30	30.99										
15.0	2.28	30.99	0.75	12.08	0.00	0.08	0.18	0.08				

STATION 31968-112 PHYTOPLANKTON DATA

DATE 10/24/62 HR 1755 LAT 66-59 N LONG 165-55 W SDG 26 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	2.64	31.26	0.91		0.00	0.00	0.23	0.12				
3.0			0.91		0.00	0.00	0.21	0.12				
5.0	2.64	31.20										
10.0	2.63	31.20	0.95		0.00	0.00	0.29	0.10				
15.0	2.64	31.21										
20.0	2.58	31.21	0.92	18.54	0.00	0.00	0.27	0.10				

STATION 31968-113 PHYTOPLANKTON DATA

DATE 10/24/62 HR 2035 LAT 67-00 N LONG 167-07 W SDG 38 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.58	30.93	0.73		0.02	0.00	0.26	0.02				
5.0	1.59	30.93										
10.0	1.59	30.93	0.88		0.00	0.00	0.32	0.01				
15.0	1.58	30.93										
20.0	1.58	30.93	0.89		0.00	0.00	0.30	0.03				
25.0	2.70	31.60										
30.0	3.15	31.79	0.65	24.61	0.00	0.00	0.15	0.07				

STATION 31968-118 PHYTOPLANKTON DATA

DATE 10/25/62 HR 0825 LAT 66-29 N LONG 169-48 W SDG 52 SCD 7.0

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.79	31.48	1.27		0.00	0.00	0.40	0.08				
5.0	0.80	31.48										
10.0	0.80	31.48	1.27		0.00	0.00	0.45	0.05				
15.0	0.78	31.48										
19.0			1.27		0.00	0.00	0.47	0.03				
20.0	0.78	31.48										
25.0	1.37	32.03										
30.0	1.83	32.53										
35.0	1.85	32.46										
40.0	1.96	32.52	0.66	44.43	0.00	0.00	0.16	0.11				

STATION 31968-119 PHYTOPLANKTON DATA

DATE 10/25/62 HR 1125 LAT 66-30 N LONG 169-00 W SDG 56 SCD 7.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.22	30.98	0.95		0.00	0.00	0.30	0.03				
5.0	1.22	30.97										
10.0	1.22	30.97	1.00		0.00	0.00	0.32	0.03				
15.0	1.20	30.98										
20.0	1.22	30.97	0.99		0.00	0.00	0.37	0.03				
25.0	2.08	32.13										
30.0	2.10	32.30										
35.0	2.12	32.32										
40.0	2.12	32.31										
45.0	2.10	32.31	0.57	39.24	0.00	0.00	0.13	0.08				

STATION 31968-120 PHYTOPLANKTON DATA

DATE 10/25/62 HR 1345 LAT 66-30 N LONG 167-59 W SDG 23 SCD 3.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.93	30.80	0.73		0.00	0.00	0.21	0.04				
5.0	1.92	30.80	0.64		0.00	0.00	0.20	0.04				
9.0			0.65		0.00	0.00	0.20	0.01				
10.0	1.92	30.81										
15.0	1.98	31.07	1.08	11.19	0.03	0.00	0.25	0.14				

STATION 31968-121 PHYTOPLANKTON DATA

DATE 10/25/62 HR 1545 LAT 66-30 N LONG 167-02 W SDG 29 SCD 3.5

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.81	30.73										
5.0	1.82	30.74	0.68		0.01	0.00	0.37	0.00				
10.0	1.82	30.75										
15.0	1.90	30.76										
20.0	2.04	30.91	0.69	10.22	0.00	0.00	0.39	0.00				

STATION 31968-122 PHYTOPLANKTON DATA

DATE 10/25/62 HR 2010 LAT 66-05 N LONG 169-03 W SDG 53 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.82	31.10	0.53		0.00	0.00	0.15	0.06				
5.0	0.82	31.09										
10.0	0.82	31.10	0.56		0.01	0.00	0.18	0.03				
15.0	0.80	31.11										
20.0	1.30	31.82	1.02		0.00	0.00	0.35	0.01				
25.0	1.29	31.94										
30.0	1.47	32.13										
35.0	1.77	32.49										
40.0	1.74	32.49	1.16	35.10	0.01	0.00	0.41	0.02				

STATION 31968-125 PHYTOPLANKTON DATA

DATE 10/25/62 HR 2320 LAT 65-55 N LONG 168-04 W SDG 38 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
5.0	1.54	30.65										
0.0	1.56	30.65	0.99		0.00	0.00	0.09	0.00				
10.0	1.55	30.65	0.99		0.00	0.00	0.29	0.09				
15.0	1.54	30.65										
20.0	1.65	30.70	0.81		0.00	0.00	0.29	0.05				
25.0	1.96	30.94										
30.0	1.91	30.95	0.85	27.18	0.00	0.00	0.27	0.08				

STATION 31968-126 PHYTOPLANKTON DATA

DATE 10/26/62 HR 0220 LAT 65-22 N LONG 168-22 W SDG 53 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	1.42	30.16	1.14		0.00	0.00	0.31	0.09				
5.0	1.42	30.16										
10.0	1.41	30.20	0.48		0.00	0.00	0.48	0.00	*			
15.0	1.34	30.95										
20.0	1.43	32.09	1.02		0.00	0.00	0.33	0.06	*			
25.0	1.28	32.44										
30.0	1.25	32.46										
35.0	1.27	32.47										
40.0	1.27	32.48	0.61	31.85	0.00	0.00	0.14	0.09	*			

STATION 31968-129 PHYTOPLANKTON DATA

DATE 10/26/62 HR 0625 LAT 65-34 N LONG 169-53 W SDG 50 SCD

DEPTH	TEMP	SAL	CHL-A	ACA	CHL-B	CHL-C	CNAC	CAC	ASSIM	SUMA	A/CA	TECH
0.0	0.56	31.71	0.97		0.00	0.00	0.35	0.04				
5.0	0.56	31.72										
10.0	0.57	31.74	0.92		0.00	0.00	0.33	0.03				
15.0	0.62	31.81										
20.0	1.10	31.96	0.96		0.00	0.00	0.31	0.03				
25.0	1.14	31.98										
30.0	1.21	32.08										
35.0	1.26	32.16										
40.0	1.21	32.24	0.69	35.39	0.00	0.00	0.19	0.06				

Incident Solar Radiation

Cruise BB 236 : 2 August 1959 - 2 September 1959
Hourly Total Values (Langleys)

Day/ Hour																					Daily				
	Mo.	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	(Langleys)
2/8	-	-	-	-	-	-	-	-	-	-	-	-	72.0	67.2	62.4	50.4	45.6	26.4	12.0	2.4	-	-	-	-	-
3/8	-	-	-	-	-	-	-	-	-	54.0	60.0	69.6	62.4	33.6	21.8	22.8	20.4	19.2	13.2	6.0	3.0	1.2	-	-	-
4/8	-	-	-	-	-	-	-	-	-	68.4	82.8	82.8	81.6	79.2	75.6	66.0	50.4	39.6	25.2	12.0	6.0	1.2	0.0	-	-
5/8	-	-	-	-	25.2	33.6	45.6	52.8	61.2	69.6	74.4	78.0	76.8	69.6	61.2	50.4	9.6	9.6	-	-	-	-	-	-	-
6/8	-	-	-	-	-	-	-	-	20.4	25.2	33.6	45.6	32.4	22.8	14.4	10.2	10.8	7.2	4.8	3.6	2.4	0.6	-	-	-
7/8	-	-	0.6	1.8	3.6	6.6	12.0	15.0	15.6	28.8	39.6	40.8	38.4	43.2	34.8	24.0	24.0	15.6	12.0	-	-	-	-	-	356.4
8/8	-	-	-	-	-	-	-	-	30.0	27.0	25.2	21.6	20.4	19.2	18.6	13.8	10.2	7.2	4.8	1.2	0.00	-	-	-	-
9/8	-	-	0.6	3.0	4.8	8.4	5.4	7.8	16.8	15.6	19.2	25.2	27.6	25.2	25.2	27.6	16.8	6.6	3.6	0.6	0.0	-	-	-	240.0
10/8	-	-	0.0	0.6	3.0	7.2	15.6	18.0	24.0	34.8	62.4	54.0	32.4	39.6	30.0	31.2	22.8	8.4	4.8	1.2	0.00	-	-	-	390.0
11/8	-	-	0.6	3.0	9.0	9.6	12.0	25.2	40.8	55.2	46.8	45.6	45.6	45.6	40.8	39.6	21.6	10.8	3.0	1.2	-	-	-	-	456.0
12/8	-	0.6	6.0	14.4	25.2	34.8	36.0	48.0	63.6	74.4	78.0	78.0	73.2	66.0	57.6	43.2	25.2	14.4	8.4	2.4	0.00	-	-	-	749.4
13/8	-	-	-	5.4	15.6	31.2	34.8	55.2	61.2	58.8	73.2	80.4	73.2	61.2	50.4	42.0	32.4	18.0	6.6	0.6	-	-	-	-	748.8
14/8	-	-	-	-	-	-	-	-	-	-	43.2	30.0	31.2	32.4	21.6	-	20.4	13.2	8.4	4.8	2.4	0.6	-	-	-
15/8	-	-	-	-	-	7.8	9.0	12.6	15.0	28.8	42.6	30.6	25.2	20.4	14.4	10.8	12.0	7.2	3.0	0.6	-	-	-	-	-
16/8	-	-	0.30	1.8	3.6	6.6	10.8	13.2	18.0	21.0	22.2	16.8	19.2	19.8	25.2	24.0	7.8	4.2	-	-	-	-	-	-	-
17/8	-	-	-	-	1.2	7.8	27.6	38.4	34.8	28.8	36.6	31.8	34.8	34.8	44.4	19.8	12.6	6.6	4.2	0.0	-	-	-	-	-
18/8	-	-	-	1.2	3.6	7.2	21.6	40.8	30.0	25.2	30.6	28.8	16.8	13.8	8.4	18.6	12.0	5.4	1.2	-	-	-	-	-	265.2
19/8	-	-	1.2	3.0	6.0	10.8	20.4	28.2	34.2	58.8	63.0	61.8	63.0	57.6	45.6	35.4	23.4	12.6	3.6	0.0	-	-	-	-	528.6
20/8	-	-	-	-	1.8	4.8	8.4	16.8	27.6	31.8	30.0	38.4	31.2	28.8	25.8	21.6	13.8	6.6	3.6	-	-	-	-	-	290.2
21/8	-	-	-	-	3.6	5.4	6.6	9.6	10.8	31.8	55.8	48.0	40.8	42.0	-	-	8.4	5.4	3.6	-	-	-	-	-	-
22/8	-	-	-	-	1.8	7.8	10.8	15.6	21.6	8.4	9.6	9.6	10.8	8.4	6.0	5.4	4.8	2.4	0.6	-	-	-	-	-	123.6
23/8	-	-	-	-	3.6	9.0	6.0	11.4	12.0	11.4	-	-	-	19.8	13.2	7.8	4.8	1.8	-	-	-	-	-	-	-
24/8	-	-	-	-	-	-	-	-	-	-	27.0	29.4	39.6	33.6	34.2	15.6	6.0	-	-	-	-	-	-	-	-
25/8	-	-	-	1.8	4.2	14.4	10.2	10.8	26.4	23.4	43.2	51.0	44.4	42.0	39.6	16.2	-	-	3.0	0.6	-	-	-	-	-
26/8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/8	-	-	-	0.0	2.4	4.8	7.2	15.6	12.0	18.0	18.0	24.0	21.6	22.8	15.6	14.4	7.8	2.4	1.2	-	-	-	-	-	187.8
28/8	-	-	-	-	2.4	3.6	8.4	13.2	17.4	27.6	25.2	35.4	37.2	26.4	16.8	10.8	3.0	1.8	-	-	-	-	-	-	229.2
29/8	-	-	-	-	-	2.4	4.8	9.6	12.0	12.6	19.2	23.4	18.6	12.6	9.0	5.4	1.8	-	-	-	-	-	-	-	-
30/8	-	-	-	-	1.8	4.2	5.4	8.4	17.4	12.0	10.2	9.0	10.2	11.4	10.8	6.0	1.8	0.6	-	-	-	-	-	-	109.2
31/8	-	-	-	-	1.8	4.8	9.0	14.4	25.2	22.2	18.6	19.2	27.0	30.0	36.6	23.4	12.6	4.2	0.6	-	-	-	-	-	249.6
1/9	-	-	-	-	3.6	4.2	10.2	20.4	24.0	33.0	18.0	19.8	16.8	12.6	9.6	7.2	6.6	3.0	-	-	-	-	-	-	-

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Incident Solar Radiation

Cruise BB 268 : 26 July 1960 - 3 September 1960
Hourly Total Values (Langleys)

Day/ Mo.	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Daily Totals (Langleys)
26/7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.2	26.4	13.8	4.2	1.2	0.0	0.0	0.0	0.0	-
27/7	0.0	0.0	0.0	3.6	9.6	20.4	27.0	27.0	37.2	43.8	52.8	48.6	44.4	49.8	54.6	39.6	31.2	22.8	6.6	0.0	0.0	0.0	0.0	519.0
28/7	0.0	0.0	0.0	0.0	4.8	10.8	15.6	33.0	45.6	49.2	40.2	25.8	19.8	16.8	24.0	22.2	21.6	9.0	3.6	0.0	0.0	0.0	0.0	342.0
29/7	0.0	0.0	0.0	1.2	6.0	28.8	39.0	44.4	55.2	67.8	66.6	66.6	62.4	51.0	44.4	36.0	17.4	7.2	1.2	0.0	0.0	0.0	0.0	595.2
30/7	0.0	0.0	0.0	0.0	3.0	6.6	6.0	9.0	18.6	27.0	31.8	39.6	36.0	27.6	16.8	13.8	7.8	3.6	1.2	0.0	0.0	0.0	0.0	245.4
31/7	0.0	0.0	0.0	0.6	6.0	9.6	15.0	8.4	12.6	26.4	36.0	63.6	54.0	42.6	42.0	47.4	33.0	15.0	5.4	1.8	0.0	0.0	0.0	419.4
1/8	0.0	0.0	0.0	0.6	4.2	6.0	15.0	24.6	28.8	33.6	55.2	72.6	69.0	64.2	54.6	47.4	35.4	22.2	6.0	1.2	0.0	0.0	0.0	540.6
2/8	0.0	0.0	0.0	0.0	0.6	1.8	7.2	16.2	29.4	40.8	44.4	39.0	33.6	41.4	35.4	37.8	27.0	10.2	9.0	1.8	0.0	0.0	0.0	375.6
3/8	-	-	0.0	6.0	19.2	25.8	40.2	47.4	57.0	63.6	66.6	67.2	64.2	57.6	49.8	45.0	31.2	18.6	10.2	3.0	0.6	0.0	-	673.2
4/8	0.0	0.0	0.0	3.6	10.8	15.6	35.4	49.8	55.8	62.4	66.0	65.4	58.8	43.2	43.2	22.2	9.0	7.2	3.0	1.8	0.0	0.0	0.0	553.2
5/8	0.0	0.0	0.0	0.0	1.2	2.4	6.0	10.8	34.8	36.0	47.4	40.8	21.6	26.4	16.8	18.0	10.8	7.8	3.6	0.0	0.0	0.0	0.0	284.4
6/8	0.0	0.0	0.0	0.0	3.6	10.8	21.0	27.0	51.6	51.0	36.6	34.8	31.8	3.0	-	-	-	-	-	-	0.0	0.0	0.0	-
7/8	0.0	0.0	0.0	1.2	3.6	4.2	9.6	20.4	17.4	22.8	29.4	24.6	33.6	34.8	19.2	19.2	18.6	7.8	1.8	0.0	0.0	0.0	0.0	268.2
8/8	0.0	0.0	0.0	0.0	0.6	3.0	6.0	16.2	27.6	33.6	25.8	42.6	39.6	37.2	28.2	12.0	9.6	4.2	1.2	0.0	0.0	0.0	0.0	287.4
9/8	0.0	0.0	0.0	0.0	0.0	1.2	2.4	6.6	9.6	7.8	5.4	7.2	7.8	6.6	4.8	4.2	4.2	3.6	1.2	0.0	0.0	0.0	0.0	72.6
10/8	0.0	0.0	0.0	0.6	7.8	7.8	4.2	9.6	10.8	11.4	11.4	8.4	9.0	4.2	5.4	4.8	4.8	2.4	0.6	0.0	0.0	0.0	0.0	103.2
11/8	0.0	0.0	0.0	0.0	0.0	0.0	3.6	13.8	13.2	25.2	15.0	7.2	14.4	15.0	21.6	18.0	7.2	6.0	1.2	0.0	0.0	0.0	0.0	161.4
12/8	0.0	0.0	0.0	0.6	4.2	7.2	11.4	13.8	26.4	40.8	59.4	57.6	46.8	51.0	39.0	-	-	17.4	6.0	0.0	0.0	0.0	0.0	-
13/8	0.0	0.0	0.0	1.8	9.0	20.4	30.0	37.2	52.2	63.0	55.2	53.4	34.2	39.6	24.6	23.4	2.4	15.0	6.0	2.4	0.0	0.0	0.0	469.8
14/8	0.0	0.0	0.0	0.0	0.6	4.2	10.8	15.6	27.6	43.8	35.4	33.0	17.4	12.6	13.8	10.2	3.0	1.2	0.0	0.0	0.0	0.0	0.0	229.2
15/8	0.0	0.0	0.0	1.8	4.8	7.8	14.4	11.4	15.6	22.8	22.8	24.0	24.0	12.6	6.6	10.8	7.8	3.0	0.6	0.0	0.0	0.0	0.0	190.8
16/8	0.0	0.0	0.0	0.0	2.4	4.8	7.8	18.6	33.0	28.8	27.6	22.8	25.8	30.0	19.8	16.8	-	-	-	-	-	-	-	-
17/8	0.0	0.0	0.0	0.6	3.6	9.6	16.2	19.2	24.6	41.4	58.8	42.0	35.4	29.4	30.0	26.4	5.4	4.2	2.4	0.0	0.0	0.0	0.0	349.2
18/8	0.0	0.0	0.0	0.0	1.2	16.2	30.6	43.2	51.0	58.2	60.0	61.2	57.6	48.0	37.2	31.2	21.0	12.0	3.6	0.0	0.0	0.0	0.0	532.2
19/8	0.0	0.0	0.0	2.4	12.0	19.2	29.4	44.4	51.0	57.0	60.6	60.0	57.6	52.2	42.0	31.2	21.0	9.0	1.8	0.0	0.0	0.0	0.0	550.8
20/8	0.0	0.0	0.0	1.8	9.0	22.8	33.0	41.4	51.6	55.2	58.8	57.0	57.6	51.0	40.8	30.6	19.2	8.4	1.2	0.0	0.0	0.0	0.0	539.4
21/8	0.0	0.0	0.0	1.2	9.0	19.2	28.8	42.6	51.0	55.2	55.8	52.2	52.2	48.6	38.4	28.8	17.4	8.4	1.2	0.0	0.0	0.0	0.0	513.0
22/8	0.0	0.0	0.0	4.2	13.2	24.0	33.6	43.2	54.0	58.8	60.6	59.4	54.0	44.4	37.8	18.0	7.8	3.0	0.0	0.0	0.0	0.0	0.0	516.0
23/8	0.0	0.0	0.0	1.2	9.0	13.8	25.2	30.6	21.6	16.8	15.6	16.8	11.4	14.4	13.8	6.0	3.0	1.2	0.0	0.0	0.0	0.0	0.0	200.4
24/8	0.0	0.0	0.0	0.0	2.4	5.4	5.4	7.8	10.8	24.0	10.2	10.2	6.0	3.6	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	90.0
25/8	0.0	0.0	0.0	0.0	0.6	1.8	7.2	13.2	15.6	15.6	-	-	35.4	25.2	25.2	11.4	3.0	1.2	0.0	0.0	0.0	0.0	0.0	-
26/8	0.0	0.0	0.0	0.0	0.6	1.8	3.6	3.6	3.6	8.4	9.0	6.6	6.6	6.6	-	-	-	-	-	-	-	-	-	-
27/8	0.0	0.0	0.0	0.0	0.6	3.6	10.2	10.8	22.2	33.6	13.8	17.4	13.2	36.0	24.0	11.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	199.2
28/8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/8	-	-	-	-	-	-	6.6	14.4	15.0	18.6	21.6	15.6	17.4	25.2	18.6	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	-
31/8	0.0	0.0	0.0	0.0	0.0	1.2	1.8	3.6	12.0	18.6	25.2	21.6	12.0	16.2	13.2	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	133.8
1/9	0.0	0.0	0.0	0.0	0.0	1.8	4.8	7.2	21.6	30.6	25.8	44.4	35.4	22.2	26.4	19.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0	247.2
2/9	0.0	0.0	0.0	0.0	0.0	1.8	1.8	5.4	7.8	8.4	10.8	19.2	40.8	34.2	7.2	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	146.4
3/9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.8	13.8	21.0	42.0	64.8	67.2	70.2	43.2	42.6	19.2	10.8	3.0	0.0	0.0	0.0	406.8

Incident Solar Radiation

Cruise SU 420 : 13 - 25 July 1961
Hourly Total Values (Langleys)

Day/ Mo.	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Daily Totals (Langleys)
13/7	0.0	0.6	1.8	6.6	7.8	9.0	12.0	15.0	18.0	23.4	23.4	27.6	27.6	28.2	-	19.8	13.2	10.2	7.2	5.4	4.2	1.8	0.0	-
14/7	0.0	0.6	1.2	3.0	4.2	5.4	9.0	11.4	15.0	24.0	34.8	39.0	40.8	41.4	37.8	29.4	19.8	20.4	13.2	6.6	4.8	4.2	0.6	366.6
15/7	0.0	0.6	3.0	5.4	13.8	19.8	34.2	34.2	46.8	49.2	40.2	39.0	30.0	31.8	18.6	13.2	11.4	9.6	9.6	4.2	3.6	3.0	1.8	423.0
16/7	0.0	1.2	4.2	5.4	7.8	12.0	28.8	40.2	22.8	15.0	25.2	34.8	42.0	33.0	29.4	19.8	14.4	9.6	5.4	3.6	1.8	1.8	0.0	358.2
17/7	0.0	0.6	2.4	8.4	17.4	25.8	36.0	41.4	51.6	42.0	41.4	61.2	51.0	42.0	25.8	20.4	25.8	15.6	13.8	4.2	0.6	0.0	0.0	527.4
18/7	0.0	0.6	1.8	7.2	12.6	17.4	25.2	24.6	31.2	36.6	37.2	34.8	24.0	24.0	17.4	14.4	10.2	9.6	4.8	2.4	0.6	0.0	0.0	336.6
19/7	0.0	0.0	1.2	5.4	9.0	15.6	9.0	12.6	15.6	11.4	8.4	12.0	12.0	14.4	20.4	23.4	12.0	2.4	1.2	1.8	0.6	0.0	0.0	188.4
20/7	0.0	0.0	1.8	1.8	7.8	7.8	15.0	16.2	23.4	28.8	25.8	30.0	34.8	41.4	38.4	26.4	18.6	14.4	8.4	4.8	-	-	-	-
21/7	0.0	0.0	1.2	3.6	4.8	9.6	3.6	15.6	25.8	30.6	34.8	45.0	37.8	23.4	29.4	24.6	14.4	9.0	7.8	3.0	0.6	0.0	0.0	324.6
22/7	0.0	0.6	3.6	10.2	13.8	13.8	31.2	35.4	39.0	44.4	39.6	41.4	56.4	56.4	49.8	42.0	28.2	10.2	15.0	7.8	2.4	0.0	0.0	541.2
23/7	0.0	0.0	0.6	4.8	9.0	10.8	24.0	34.8	31.2	50.4	43.8	37.2	43.8	22.8	15.6	12.0	9.0	4.8	3.6	4.8	2.4	0.0	0.0	365.4
24/7	0.0	0.0	1.2	4.2	6.0	6.0	9.6	15.0	24.6	34.8	24.6	18.0	24.0	25.2	34.2	25.2	20.4	15.6	13.8	4.8	3.0	0.0	0.0	310.2
25/7	0.0	0.0	1.2	3.6	4.2	9.6	12.0	9.0	10.2	12.0	16.8	16.8	19.2	19.8	19.8	19.2	9.0	6.6	4.2	-	-	-	-	-

Incident Solar Radiation

Cruise CH 562 : 3 May 1962 - 13 May 1962
Hourly Total Values (Langleys)

Day/ Mo.	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Daily Totals (Langleys)
3/5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.6	20.4	11.4	5.4	2.4	0.6	0.0	0.0	-
4/5	0.0	0.0	0.6	1.8	7.2	15.6	21.0	31.2	36.0	47.4	46.2	43.2	42.6	37.2	30.0	17.4	12.6	7.2	2.4	1.2	0.0	0.0	0.0	400.8
5/5	0.0	0.0	1.2	3.6	9.0	14.4	19.2	24.6	34.8	31.2	31.2	30.6	27.6	24.6	21.0	16.8	11.4	7.2	2.4	0.6	0.0	0.0	0.0	311.4
6/5	0.0	0.0	0.6	1.8	6.0	13.2	21.6	31.2	38.4	40.8	46.2	41.4	34.2	28.8	25.8	25.8	16.8	15.0	6.0	1.8	0.0	0.0	0.0	393.6
7/5	0.0	0.0	1.2	3.0	7.8	16.2	21.6	29.4	39.0	40.2	40.2	42.6	37.8	28.8	24.0	18.6	13.2	7.8	4.2	1.8	0.0	0.0	0.0	377.4
8/5	0.0	0.0	1.2	4.8	9.0	15.6	21.6	28.2	33.0	41.4	43.2	42.6	46.8	41.4	36.6	28.8	23.4	12.0	5.4	1.2	0.0	0.0	0.0	436.2
9/5	-	-	-	4.8	9.6	16.8	26.4	35.4	30.4	42.6	57.0	51.0	56.4	41.4	42.6	31.2	19.6	11.4	5.4	1.8	0.6	0.0	0.0	-
10/5	0.0	0.0	1.2	4.8	10.8	16.8	26.4	37.8	43.8	49.8	49.8	57.0	60.0	48.6	46.2	37.8	21.0	19.2	9.0	3.0	1.2	0.0	0.0	550.2
11/5	0.0	0.0	3.6	8.4	13.8	21.0	28.2	39.6	48.6	46.2	59.4	52.2	48.0	47.4	39.6	33.6	23.4	17.4	9.6	4.8	1.8	0.0	0.0	546.6
12/5	0.0	0.0	1.8	7.2	13.2	17.4	25.8	34.8	38.4	47.4	52.2	55.8	57.0	48.6	43.8	39.0	27.0	17.4	10.2	3.6	1.2	0.0	0.0	541.8
13/5	0.0	0.0	1.2	5.4	10.2	16.8	24.0	31.2	34.8	40.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Incident Solar Radiation

Cruise 31968 : 7 October 1962 - 25 October 1962
Hourly Total Values (Langleys)

Hour	24-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-24
	0.0	1.2	4.2	4.2	7.8	7.8	5.4	1.2	0.6	0.0	0.0
	0.0	6.0	16.8	19.2	23.4	19.8	10.2	9.0	1.8	0.0	0.0
	0.0	1.2	1.8	1.2	1.2	0.6	0.6	1.8	1.8	0.0	0.0
	0.0	0.6	1.8	1.8	1.8	1.8	1.8	1.2	2.4	0.0	0.0
	0.0	0.0	1.8	1.8	5.4	4.8	5.4	5.4	-	0.0	0.0
	0.0	0.6	1.2	4.8	1.8	3.6	1.8	4.2	-	0.0	0.0
	0.0	-	3.0	4.2	1.8	6.0	4.8	5.4	-	0.0	0.0
	0.0	-	3.0	5.4	10.2	10.8	6.0	-	-	0.0	0.0
	-	-	1.2	1.2	6.0	14.4	7.8	-	-	-	-
	-	-	-	-	1.2	14.4	1.2	-	-	-	-
	-	-	-	-	4.8	1.2	-	-	-	-	-
	-	-	-	-	-	9.0	-	-	-	-	-
Mean Hourly Totals (Langleys)	0.0	0.7	3.87	4.87	5.94	7.85	4.50	4.03	1.65	0.00	0.00

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The record from this cruise was too fragmentary to warrant a day-by-day tabulation.

Exposure Times for TECH 5-8

CRUISE	STATION	TECH	T _{INITIAL}	T _{FINAL}	CRUISE	STATION	TECH	T _{INITIAL}	T _{FINAL}
BB 236	-----	NONE	-----		BB 268	068	6	1542	1749
						069	6	2054	2257
BB 268	001	6	1815	2015		070	6	0057	0304
	002	6	0015	0224		071	6	0651	1008
	004	6	1047	1335		073	6	1806	2011
	006	6	2212	2400		074	6	2244	0136
	008	6	0845	1045		075	6	0359	0628
	010	6	1935	2135		076	6	1520	1745
	012	6	0750	0948		077	6	2311	0127
	013	6	1318	1516		087	6	1755	1959
	017	6	0850	1056		092	5	1000	1410
	018	6	1338	1538		"	6	0940	1225
	019	6	1840	2040		093	5	1545	1905
	021	6	0403	0608		"	6	1548	1819
	022	6	1141	1346		098	5	0940	1240
	023	6	2142	2347		"	6	0933	1337
	024	6	0317	0657		099	5	1553	1856
	025	6	0921	1121		"	6	1458	1800
	026	6	1459	1751		101	6	2253	0138
	027	6	2048	2241		102	6	0312	0518
	029	6	0438	0659		103	5	0830	1130
	031	6	1404	1557		"	6	0821	1059
	032	6	1902	2102		104	5	1445	1815
	033	6	2231	0016		"	6	1435	1652
	035	6	0842	1212		106	6	2025	2333
	036	6	1420	1617		107	6	1146	0245
	037	6	1916	2205		113	5	1515	1825
	041	6	0950	1212		"	6	1447	1649
	042	6	1420	1626		115	6	0117	0335
	043	6	1943	2137		215	6	0325	0535
	045	6	0552	0801		116	6	0527	0741
	046	6	0954	1159		216	6	0732	0952
	047	6	1350	1613		316	6	0950	1300
	048	6	1844	2045		117	6	1217	1521
	049	6	0250	0551		118	6	1612	1904
	050	6	0802	1009		120	6	1743	2003
	052	6	1247	1450		121	6	2009	2231
	054	6	0313	0630		221	6	2202	0057
	055	6	0734	0934		122	6	0047	0300
	056	6	1202	1438		238	5	1355	1715
	057	6	1720	1925		"	6	1345	1718
	058	6	2145	2350		142	6	1857	2110
	059	6	0203	0355					
	060	6	0559	0822	SU 420	001	5	2030	1110
	064	6	0040	0250		"	7	2030	1110
	065	6	0507	0735		"	8	2030	1015
	066	6	0939	1126		002	5	1200	2210

Exposure Times for TECH 5-8 (cont.)

CRUISE	STATION	TECH	T _{INITIAL}	T _{FINAL}	CRUISE	STATION	TECH	T _{INITIAL}	T _{FINAL}
SU 420	002	7	1200	2210	SU 420	012	5	2000	1145
	"	8	1200	2210		"	7	2000	1145
	003	5	1710	2320		"	8	2000	1145
	"	7	1710	2320		013	5	2015	1130
	"	8	1710	2320		"	7	2015	1130
	004	5	1135	1830		"	8	2015	1130
	"	7	1135	1830					
	"	8	1135	1830	CH 562	011	5	1207	2230
	005	5	1430	2200		"	7	1200	2230
	"	7	1430	2200		"	8	1207	2230
	"	8	1430	2200		022	5	1500	2030
	006	5	1140	1810		"	7	1500	2030
	"	7	1140	1810		"	8	1500	2030
	"	8	1140	1810		042	5	1505	2050
	007	5	0935	1810		"	7	1505	2050
	008	5	1045	1655		"	8	1505	2050
	009	5	2230	1115		081	5	1435	2045
	"	7	2230	1115		"	7	1435	2045
	"	8	2230	1115		"	8	1435	2045
	010	5	1830	1125					
	011	5	2300	1125	31968	-----	NONE	-----	

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Security Classification

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14. KEY WORDS	LINK A		LINK B		LINK C	
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