ARCTIC DATA COMPILATION AND APPRAISAL
VOLUME 21
Queen Elizabeth Islands: Physical Oceanography - Temperature, Salinity, Currents and Water Levels
REVISED AND UPDATED TO INCLUDE 1819 THROUGH 1988

by

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1990

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES
NO. 5

Fisheries and Oceans Pêches et Océans

Canada

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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PREFACE

These catalogues are produced by the Data Assessment Division at the Institute of Ocean Sciences. Joint government and industry contract projects have catalogued marine data sets, their focus being mainly on oceanography and fisheries. Data quality appraisals are included to assist in establishing the usefulness of given data for particular analyses or purposes. The ratings also determine the confidence that can be placed on interpretations incorporating those data.

The appraisals will assist in establishing priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses of the catalogues include the provision of the best available resume of marine data sources for research planning, environmental assessments, land use planning, regulatory approvals and operational procedures.

In the past, the pace of offshore development activity has emphasized the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. The review is a three-stage process: 1) compilation and appraisal of the existing data sets; 2) analysis of the suitability of existing data sets for contributing answers to questions of concern; and, 3) analysis and interpretation of data and estimation of scientific confidence in the answer to the particular question. This report represents part of the results of the first stage for the physicial oceanographic data of the Queen Elizabeth Islands.

Brian Smiley
Scientific Editor
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CONTENTS

ABSTRACT

This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The Arctic has been arbitrarily divided into seven geographical areas incorporating, where possible, major oceanographic regions. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Other catalogues currently available are listed on the inside back cover.

Data collection continues in the Canadian Arctic and updates of the catalogues are planned. Readers are invited to submit corrections and additions in writing to either of the issuing establishments. Any corrections will be incorporated in the on-line computerized data set listing; they will be continuously available on request.

SOMMAIRE

Le présent volume fait partie d'un groupe de catalogues destines à compiler et à évaluer les séries de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a ete divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de facon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qu'il est impossible de fournir tous les catalogues en une seule fois. Les catalogues de la série actuellement disponibles sont indiqués à la fin de chaque volume à l'interieur de la couverture.

La collecte des donnees est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'etablissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

ACKNOWLEDGEMENTS

This is an updated version of the original Queen Elizabeth Island physical oceanographic data inventory (Fissel et al. 1983). Much of the text in this report is verbatim from the original.

Many people were helpful in providing information. In addition to those who were acknowledged in the original report, we want to thank P. Wainwright of Seakem Oceanography Ltd. for sharing some secrets of dBase with us. Mr. Bob Dales of Panarctic Oils Limited and Mr. Oleh Mycyk of C.O.G.L.A. assisted in tracking down some of the misplaced data reports.

The data bases of the Marine Environmental Data Service in Ottawa and the National Oceanographic Data Centre in Washington provided much of the early station header information.

Within Arctic Sciences Ltd., A. McKenzie was responsible for word processing and G. Wilton assisted with contract management.

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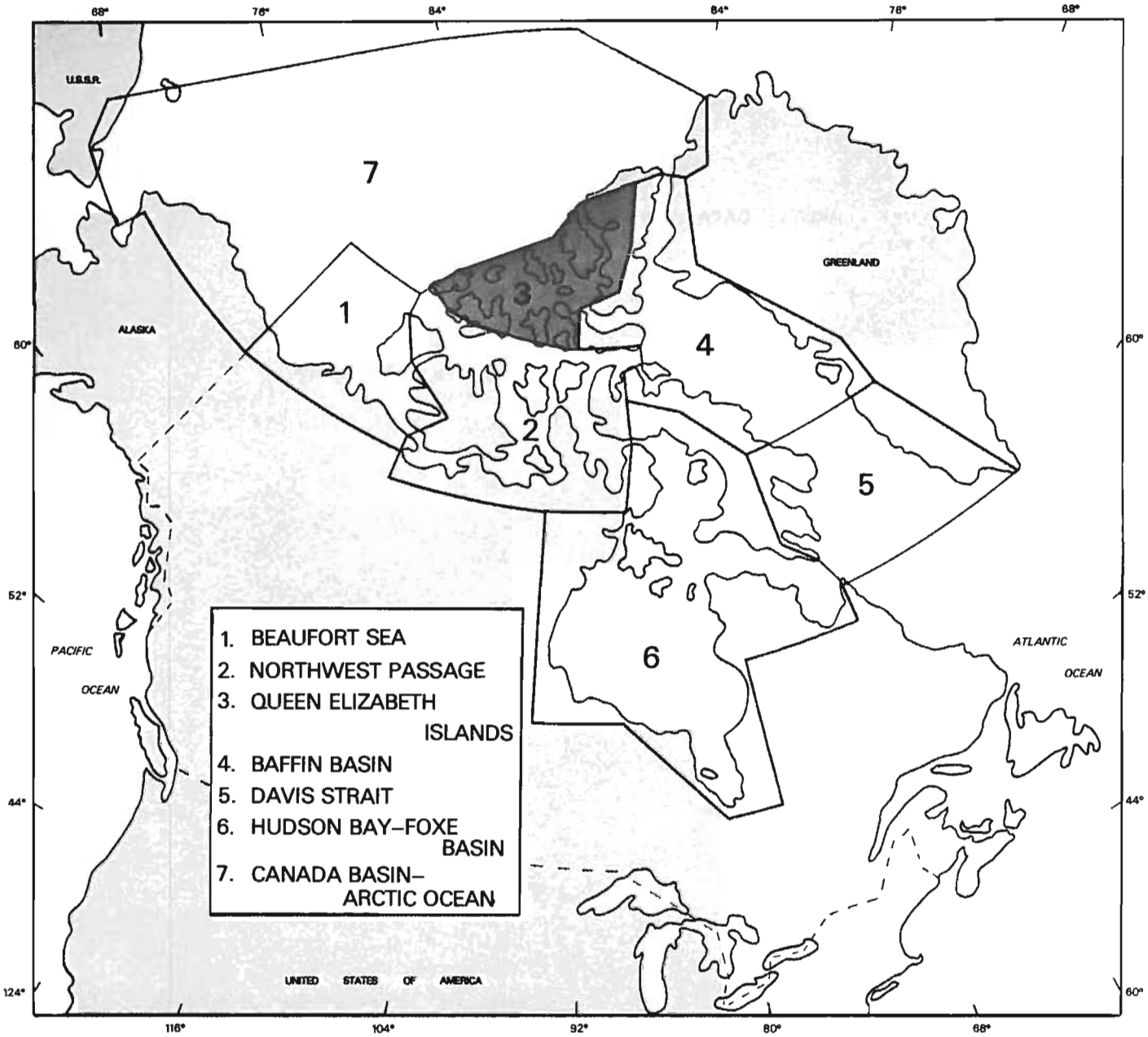
Department of Fisheries and Oceans (DFO)
Office of Energy Research and Development (OERD)
Marine Environmental Data Service (MEDS)

ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 21

QUEEN ELIZABETH ISLANDS: PHYSICAL OCEANOGRAPHY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1. BEAUFORT SEA
2. NORTHWEST PASSAGE
3. QUEEN ELIZABETH ISLANDS
4. BAFFIN BASIN
5. DAVIS STRAIT
6. HUDSON BAY–FOXE BASIN
7. CANADA BASIN–ARCTIC OCEAN

VOLUME 21: Queen Elizabeth Islands: Physical Oceanography Temperature, Salinity, Currents and Water Levels

VOLUME ABSTRACT

This inventory contains a catalogue of physical oceanographic data collected in the Queen Elizabeth Islands between 1819 and 1988. This is an update of an earlier inventory by Fissel et al. (1983). Fifty-one new data sets have been added to the original eighty-six. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current-meter and water-level data. A search for wave data did not turn up any data sets. Yearly plots showing the locations of all measurements are included. References and sources are listed for all data included in the inventory.

Key words: Queen Elizabeth Islands, current, data, inventory, salinity, temperature, tides, water properties.

1. INTRODUCTION

In this report, the physical oceanographic data collected in the channels of the Queen Elizabeth Islands are catalogued. The information provided includes the times and locations of measurements, the parameters measured, and the type of instrumentation. The data themselves are not included, but a source for the data and any reports or references utilizing the data are cited wherever possible. This will enable potential users of the data to determine what is available in their areas of interest, what data were collected using a specific measurement technique, and whether or not those data may be of value.

The original inventory contained eighty-six data sets (1948 through 1981). Fifty-one additional data sets have been included in this update. Very little data were collected before 1948 (see Section 3), and these measurements are considered to be crude by today's standards. The post 1986 decline in data collection is largely a result of Panarctic Oils Ltd.'s exploration program being put on hold.

The data inventory is ongoing. A computerized data base is maintained at the Institute of Ocean Sciences, Sidney, B.C. Information concerning new data sets, older data sets which are not in the catalogue, or errors, should be submitted to the Data Assessment Division of the Institute of Ocean Sciences.

2. STUDY AREA

The study area (Figure 1) consists of the waterways of the Queen Elizabeth Islands of the Northwest Territories extending as far east as Ellesmere and Devon Islands. It includes the central area of the Sverdrup Basin (Hazen Strait, Desbarats Strait, MacLean Strait, Belcher Channel, Norwegian Bay) along with the connecting channels to Parry Channel to the south (Crozier and Pullen Straits, Kellett Strait, Crozier Channel, Fitzwilliam Strait, Byam and Austin Channels, McDougall Sound, Wellington Channel) to Fram and Jones Sound in the southeast (Cardigan Strait and Hell Gate), and to the Arctic Ocean in the north and west (Ballantyne Strait, Wilkins Strait, Prince Gustaf Adolf Sea, Peary Channel, and Sverdrup Channel). In addition, the study area encompasses the water channels of the west coast of Ellesmere Island, including Greely Fiord, Nansen and Eureka Sounds and adjoining fiords.

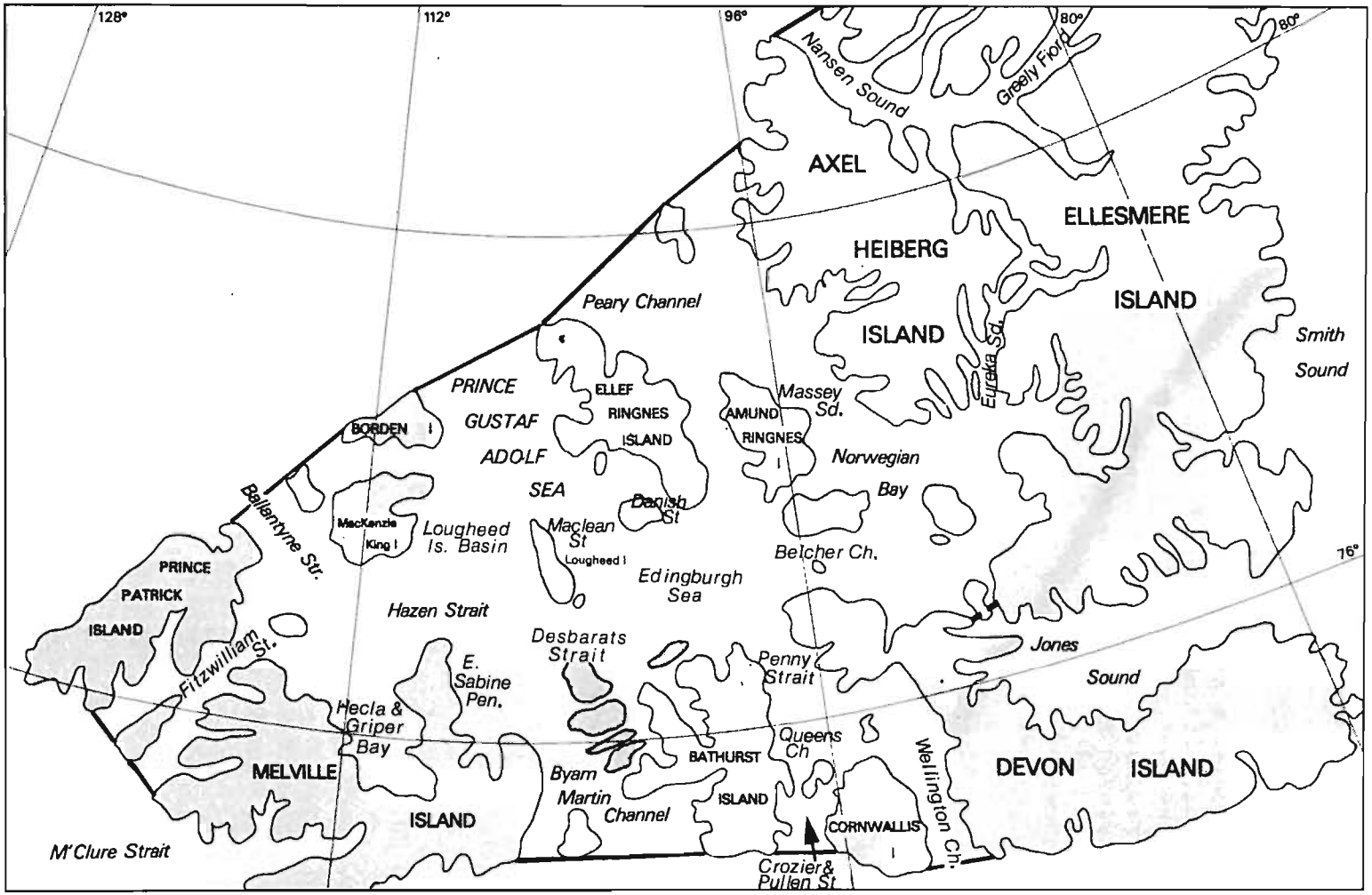

Figure 1: Queen Elizabeth Islands data inventory study area. The heavy lines mark the boundaries of the data inventory.

Bathymetry

Water depths in the area show a general tendency to decrease from north to south. The adjoining continental shelf to the north of the Queen Elizabeth Islands has a typical depth of 500 m. A similar depth range is found in Prince Gustaf Adolf Sea, Peary and Sverdrup Channels and Nansen Sound. However, some deeper depressions occur, notably to 920 m in the Nansen Sound-Greely Fiord system, to 700 m in Peary Channel and to 600 m in Prince Gustaf Adolf Sea. In the central portion of the study area, the relatively deep waters of 400 m or more are separated into distinct basins by northward protruding zones of shallow water; such shallow zones with depths less than 200 m extend northward across Desbarats Strait to Lougheed Island and northward across Belcher Channel and Hendriksen Strait to Amund Ringnes Island. The presence of a sill between Nansen and Eureka Sounds restricts horizontal water movements to depths above 120 m.

The depths of passages at the southern limit of the study area are limited to 100 m in Hell Gate, 170 m in Cardigan Strait, 160 m in Penny Strait, 120 m in Austin Strait, 100 m in Byam Strait and 250 m in Fitzwilliam Strait.

Sea Ice

An important factor in determining the extent of oceanographic data is the sea-ice coverage. Where present in sufficient quantity and thickness, sea-ice can provide a stable platform for the collection of oceanographic data. However, at times when sea-ice is breaking up or forming, oceanographic data collection is severely hindered.

During the winter months, ice conditions are severe in the study area. Typically, the area is covered by a combination of first-year and multi-year sea-ice floes. The multi-year ice floes often originate in the Arctic Ocean and are carried south into the region by the winds and currents. In many of the channels, the horizontal displacements of the ice-cover is limited to 15 m or less during winter. Polynyas (areas of open water or thin ice) have been known to occur in some of the southern channels, particularly in Hell Gate and northern portions of Wellington Channel. In most of the study area, the winter sea-ice provides a suitable platform, for such activities as drilling for oil and gas, and collecting oceanographic data.

In summer, the ice coverage is less extensive, with large variations occurring from one year to another. Normally, the eastern portion of the central area (MacLean Strait and Norwegian Bay into Eureka Sound) exhibits considerable amounts of clearing, while further to the west, the region remains under seven-tenths or more of ice cover. The southern channels in the east clear out, often completely, while the more westerly channels can partially clear, but seldom completely.

3. HISTORICAL DATA

The earliest oceanographic measurements were made by British explorers. Parry's crew recorded water-level fluctuations on August 28, 1819 near Byam Martin Island. Temperature and current data were also collected, but apparently not within the Queen Elizabeth Islands. Water-level data were later collected in 1852 and 1853 by other British vessels.

The "modern" era of oceanographic data collection began with bottle cast measurements of temperatures and salinities collected by government agencies in the late 1940's, 1950's and 1960's. These data were usually of a reconnaissance nature, collected from icebreakers during the limited navigation season (e.g. Bailey, 1957) or from the ice using aircraft support from the Polar Continental Shelf Project's base in Resolute, N.W.T. (Collin, 1961).

In the 1970's, with the increasing activity associated with the search for oil and gas in the region, both government and industry mounted more extensive oceanographic programs (Figure 2). The most active company, Panarctic Oils Ltd., began offshore exploration in 1974. For engineering design purposes, information on the ocean currents was required, since no previous current data were available for the area. In addition, ocean current data along with water property (temperatures and salinities) and water level data were collected to satisfy oceanographic environmental operating conditions, established by the federal government. The data collection program has been carried out each winter and spring from 1974 up to 1986, when Panarctic suspended their drilling activity. Since all logistics are provided in conjunction with the exploratory offshore drilling program, the Panarctic data are largely confined to the winter and spring periods, and at offshore exploration sites.

In addition to Panarctic, other companies have been involved in oil and gas exploration or related ventures in the region and, as part of their activities, they have collected some oceanographic data. Oceanographic data were collected by the Polar Gas Consortium in April and May of 1980 between Lougheed and Melville islands. These data consist of ocean-current and water-level measurements. In addition, near surface current-meter data were collected by Petro-Canada between 1977 and 1979 in central portions of the study area (Hazen Strait, MacLean Strait, Byam Martin Channel and the Edingburgh and Prince Gustaf Adolf Seas).

Various agencies of the federal government were active during the 1970's in collecting oceanographic data, in response to the increasing development activity. The agencies involved were:

- the oceanographic unit at the Canada Centre for Inland Waters (CCIW) in Burlington, Ontario (now Bayfield Marine Laboratory) who conducted oceanographic programs in the area between 1976 and 1982;

- Canadian Hydrographic Service, Tides and Water Levels, at CCIW who have collected water-level data at various sites in the study area in recent years; and

- Frozen Sea Research Group of the Institute of Ocean Sciences, Sidney, B.C. who have carried out oceanographic studies in the fiords of western Ellesmere Island and, later, in several of the passages connecting the Sverdrup Basin with the Northwest Passage.

The Institute of Ocean Sciences (IOS) conducted an extensive oceanographic program in the archipelago from 1982 through 1985.

Oceanographic activity has declined sharply since 1986, because of a reduction in oil company activity and a decrease in government-funded programs. Only one data set was found for 1987, and none for 1988.

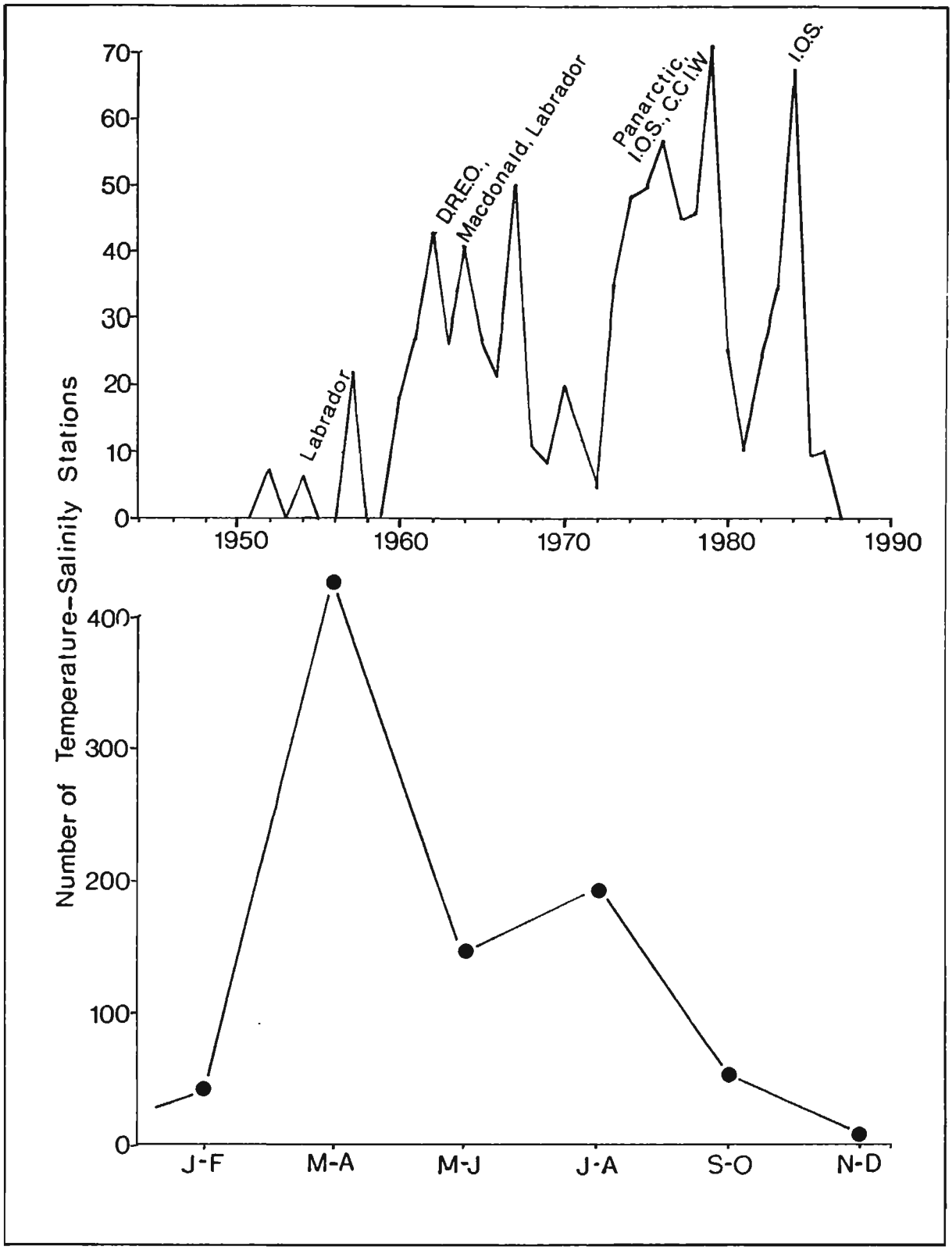

Figure 2: Yearly (upper) and seasonal (lower) distribution of oceanographic study effort, based on the number of temperature-salinity stations, from both profiling and moored instrumentation.

4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type, usually taken on a single expedition or cruise by one institution or organization. In some cases, where similar methods were used, one cruise has been assigned to the same data set. In those cases, letter suffixes have been used to differentiate different cruises. Thus, unless otherwise noted, all the data within a single set may be assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

Each data set has been assigned an identification number of the form yyyy-nnnn, where yyyy = the year in which data were collected and nnnn = order of identification for that particular data set, for that year. The data-set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 1972-0009 is the same data set no matter where the reference to it is made. Gaps may appear in the sequence of data-set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area. The data-set identification numbers are accompanied by the vessel and/or agency or company involved. The funding group is often given as well.

4.2 INVENTORY ORGANIZATION

Table 1 (Section 8) lists all the data sets in the inventory in order of data-set number. It provides a summary description of each set including the times, areas and methods of measurements. Table 1 also gives a listing, not necessarily complete, of concurrent measurements from other disciplines.

Data sets were rated according to the criteria in Section 5. The ratings are included in Table 1. Appendix 1 contains comments explaining the reasons for low ratings, and any other pertinent remarks concerning the data. The comments are ordered by data-set number.

Measurement locations are plotted in a series of maps in Section 9. Three different maps, all in Lambert Conformal Conic projection, have been used to plot data. The overall map has a scale of 1:4,750,000. Two larger scale maps were used to better illustrate the distribution of stations in the southeast sector (Wellington Channel, Penny Strait, etc.), and in the Nansen Sound-Eureka Sound area; scales are 1:2,630,000 and 1:2,000,000 respectively. In most cases, the overall map of the entire study area is used, along with one larger-scale map. The coastlines have been smoothed and small islands removed to avoid clutter. Map specifications and key to the symbols on the maps are presented at the beginning of Section 9.

Section 10 contains an index of references, ordered by data set-number. It is primarily an index of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

Detailed listings of the times and locations of individual measurements are in Section 11. There is a separate listing for each data type. The format of the listings is explained at the beginning of Section 11.

Section 6 contains a general description of the extent of the data available in this area. Sections 6.1 and 6.2 describe their geographical and seasonal distribution.

4.3 SAMPLE USE OF THE INVENTORY

A typical use of the Inventory might be as follows:

1. Examine the maps in Section 9 for measurements during the year(s) of interest, and note the data set number of interest.

2. Refer to Data Inventory Table 1 (Section 8) to find the dates, measurement methods, accuracies and data sources.

3. If more specific information is required concerning the timing or location of individual measurements in the data set, refer to the station listing in Data Inventory Table 2 (Section 11).

4. Consult the reference index in Section 10 for publications or reports referring to or using the data.

5. DATA RATING AND APPRAISAL

5.1 TYPES OF DATA

5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements at discrete depths (ideally the international standard depths) obtained by means of reversing thermometers and sampling bottles. Temperature accuracies of ± 0.01°C may be achieved by averaging two or more carefully read, well-calibrated thermometers. Some investigators have used hydrometers (± 0.2°/$_{oo}$) and refractometers (± 0.5°/$_{oo}$) for the determination of salinity. Up to 1960 salinity was usually obtained by titrating the water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to ± 0.01°/$_{oo}$. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of ± 0.003°/$_{oo}$ can be obtained with the better instruments, although in the past, systematic errors of ± 0.02°/$_{oo}$ or more could be introduced by variations in the standard water used to calibrate these instruments. New international standards for salinity should eliminate the latter source of error (Lewis, 1980).

5.1.2 CTD DATA

CTD data are produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of depth. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of ± 0.005°C and 0.005°/$_{oo}$, although accuracy in salinity, until recently, was limited to approximately ± 0.02°/$_{oo}$ because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

5.1.3 BATHYTHERMOGRAPH DATA

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of pressure. Its information is recorded as a trace, on a smoked-glass slide or gold-coated slide, which can be read to an accuracy of ± 0.2°C and ± 2 m depth if the instrument is well calibrated. The BT was widely used in conjunction with bottle casts but has largely been superseded by the CTD. XBT's are the expendable variety. BT data have not generally been compiled, unless they were accompanied by other physical oceanographic measurements.

5.1.4 SELF-RECORDING CURRENT-METER DATA

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. Meters of this type generally record internally on magnetic tape (in some older models photographic film or paper charts were used) or telemeter the data to a ship or to a shore receiving station. They generally provide time series of current speed and direction, and may have other sensors (for measuring temperature, pressure or conductivity) as well. Current speed and direction are usually measured by one of two methods: either by a propellor or rotor for measuring speed and a vane for direction sensing, or by the measurment of two orthogonal components of the current flow. Current components may be measured by dual-orthogonal propellors, or by electromagnetic or acoustic sensors. Direction reference is usually provided either by a magnetic compass; in the case of instruments mounted from ships or from the ice, torsionally rigid suspension materials allow directional reference to be fixed at the surface. Commonly used instruments employing the propellor and vane system are the Aanderaa, Hydroproducts, Endeco and AMF (Vector-averaging) meters; those employing the component-measuring system are the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown (acoustic), and the Davis-Weller (orthogonal-propellor) instruments.

The precision and accuracy of current meters depend both on the design of the instrument, and on the environment in which it is used. Serious problems are encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

Special problems in direction measurement are encountered when using compasses in the Canadian Arctic because of the weak horizontal component of the magnetic field due to the proximity of the magnetic pole. Directional accuracies are generally degraded unless the current meter is oriented at the surface via rigid coupling. In some cases, errors of 180 degrees in direction resulted due to faulty surface alignment.

The vast majority of current-meter data within this area were obtained using Aanderaa RCM-4 current meters, fitted with small vanes to allow deployment through holes in the ice. While the Aanderaa current meter is widely used by oceanographers throughout the world, both the speed and direction sensors have some limitations. Current speeds in this area are frequently below the stall speed of the Savonius rotor, so that at some stations a zero current was recorded nearly 50% of the time. In addition, there may be increased risk of the direction vane becoming stuck because of deposits of biological origin (or other causes) in a low energy environment.

5.1.5 PROFILING CURRENT-METER DATA

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propellor or rotor and vane design. Measurements usually are taken through the ice, or from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. Unless repeated profiles were taken so as to form a time series, this type of data was not generally catalogued.

5.1.6 WATER-LEVEL DATA

Water-level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. Some early data consist only of observations of the times of high and low water levels. Pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ± 1 cm, and an accuracy of the order of ± 5 to 10 cm. The resolution of the bottom-pressure gauges varies from a millimetre to a centimetre, depending upon the instrument type and range. Sampling intervals generally vary between 5 and 60 minutes. Bottom-pressure gauges generally record total pressure, atmospheric plus hydrostatic. In order to extract the water-level fluctuations due to changing atmospheric pressure (ie. the inverted barometer effect), the atmospheric pressure must also be recorded.

Water-level data collected by government agencies are usually referenced to the elevation of a nearby benchmark of known elevation. Therefore different data sets may be compared in an absolute sense as long as they are referenced to the same benchmark. Water-level data from different areas, referenced to different benchmarks, cannot be compared absolutely, since the relative elevation changes between different benchmarks is generally not known. One can determine a long-term average for each record and compare fluctuations about this average; however it is not yet possible to compare the average long-term water-level heights at sites referenced to different benchmarks.

Virtually all the water-level data collected on behalf of Panarctic Oils Ltd. were obtained with a Steven Model 2A-35 Duplex Recorder. This instrument measures the vertical movement of the ice sheet by means of a cable attached to a weight on the ocean floor. The recordings should be corrected for changes in freeboard of the ice, its horizontal movements, and changes in the position of the bottom weight, which might slowly sink into the mud. Changes in freeboard of the ice are recorded by the instrument on a second channel and horizontal ice movements were monitored; where necessary, corrections have been applied to the data. Usually the error due to sinking of the bottom weight was not known. Only the maximum and minimum water levels and the corresponding times were logged from the strip charts. The timing accuracy is quoted in Panarctic's reports as ± 30 minutes (some earlier reports quote ± 1 hour). Most records obtained with the Steven recorder were not continuous, but contained gaps lasting several days.

5.1.7 OTHER DATA

Other types of oceanographic data which were sought, in this area, include: radar-, aircraft-, or satellite-tracked drifter data; and wave data. No data from any of these categories were found.

5.2 DATA RATING SCALE

5.2.1 RATING DEFINITIONS

The data appraisal in this inventory is intended to provide the reader with an indication of the quality of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and the investigator's estimate of their precision, accuracy and utility. Subsequent analyses of the data were also taken into account, e.g. if errors were found in a particular data set during a subsequent analysis, and the results were published, these results were used in the assessment. Note that a thorough appraisal requiring investigation of the data and comparison with other data sets, is beyond the scope of this report. In effect, in most cases we took the investigator's word for the quality of their data.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, defined as follows:

0: Data were found to be wrong.

1: Data are suspect and probably not internally consistant; trends or patterns within the data are not likely real.

2: Data quality could not be determined due to insufficient documentation.

3: Data are internally consistent - patterns or trends within the data themselves are probably real, but comparison with other data sets may pose problems.

4: Data are internally consistent and exhibit sufficient standardization that comparison with other 4-rated data should be possible.

The reason for data sets receiving less that a 3- or 4-rating are usually provided in the comments of Appendix 1.

5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a 0 rating if serious deficiencies in technique, or significant systematic errors, occurred. A 0 rating was also assigned if the documentation of the data set lacked essential information (e.g. the positions and times of measurements) which no longer exists.

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination, the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation, but know that data were collected (e.g. much of the temperature and conductivity data from Aanderaa current meters deployed for Panarctic Oils Ltd.).

3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision refers to the degree of random fluctuation experienced when a measurement is repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data are normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 1 was found, but which did not satisfy each of the criteria required for a rating of 4 (see below).

This is based on data reports and other publications; the actual data were not checked further. In some instances, the instrument and/or precision and accuracy were unknown, but the collecting agency used standardized methods; these data sets were generally awarded a 3 rating when there was no evidence suggesting deficiencies in the data.

Caution should be exercised when comparing two sets of 3-rated data, as their levels of precision may be quite different. The reader should consult both Table 1 and Appendix 1 for precision and error information.

4 RATING

Data received a rating of 4 if: they were measured to the precision available with modern methods described in Section 5.1; they had no evidence of systematic or other errors recorded in the documentation; and they were obtained using measurement instrumentation, methodology and techniques which provide data that can be related to national or international standards.

Since standards tend to change, rating of 4 were only grudgingly awarded. Some of the 3 ratings may merit an increase to 4 after further study of the data has been made.

Of all the physical oceanographic data that were inventoried, the bulk of the data is temperature/salinity measurements. Until the early 1960's, water samples were collected with bottle cast and salinities were determined by titration. During most of the 1960's, salinities were generally determined using conductivity bridges, and since then instruments which measured conductivity and temperature in situ (CTDs) became the standard. Salinity was then computed from the temperature and conductivity values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Since both bottle and CTD data may have ratings of 3, caution must be used in any comparison.

Salinity determination depends on a standard. In the past this was 35°/₀₀ Copenhagen water. However, variability in the standard and in the calibration of the instrumentation often resulted in systematic errors of ± 0.2°/₀₀ or more.

A new, practical salinity scale has recently been adopted (Lewis, 1980). A conductivity ratio is measured (the conductivity of the unknown to that of a standard laboratory-produced sample) and waters of the same conductivity ratio at a given temperature and pressure are then defined to have the same salinity. This reduces systematic errors in salinity. However, most of the historical data remains subject to a ± 0.2°/₀₀ accuracy limitation.

Current-meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors and contamination by mooring motion and wave-orbital velocities.

6. SUMMARY OF DATA COVERAGE

6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

The locations of all measurements are summarized individually for bottle/CTD data (Figures 3a, b and 4a, b), current meter (Figures 5a, b) and water-level data (Figures 6a, b). The spatial coverage is far from uniform for any of the data types. The measurement sites tend to be concentrated in three sub-areas: the southern waterways adjoining Parry Channel; the central portions of the area centred around an area extending from the Sabine Peninsula of Melville Island to Lougheed Island to King Christian Island; and the channels of Nansen and Eurkea Sounds.

The areas with the least amount of data are located south and west of Axel Helberg Island, and in Ballantyne Strait and Prince Gustaf Adolf Sea.

6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

The quantity of oceanographic data varies markedly according to the time of year when the measurements were obtained. This seasonal pattern is illustrated in Figures 7 to 12 (temperature/salinity data), and Figures 13 to 18 (current meter and water level data): in each figure, the locations of available measurements are plotted according to the two-month period in which the data were obtained beginning in January-February, and continuing through to November-December. The largest quantities of temperature-salinity data are available in the months of March and April (Figure 2) with a lesser peak during July and August. The current meter and water level data are most concentrated during the May through August period.

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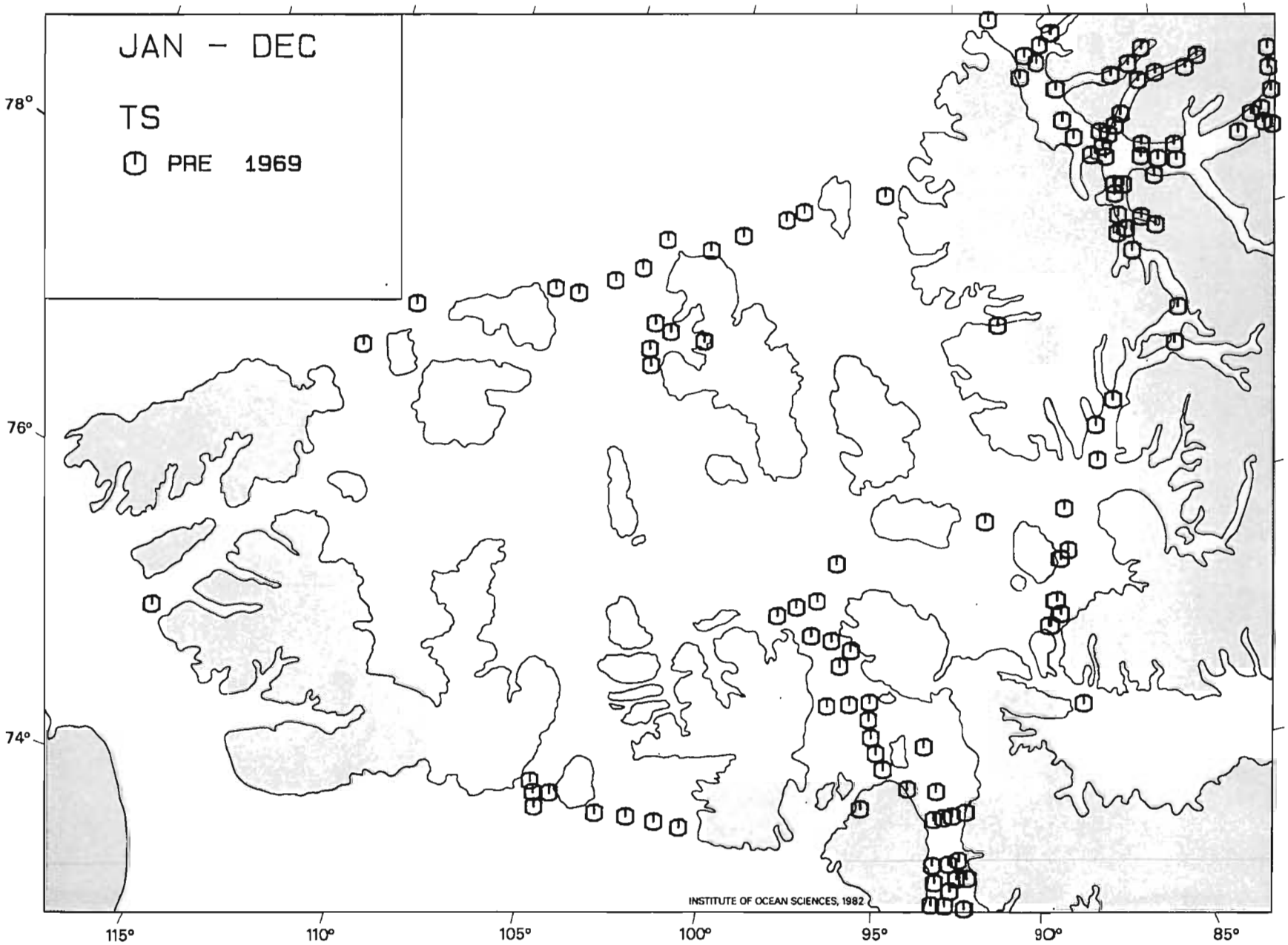

Figure 3a: The locations of temperature-salinity measurements up to and including 1969 (209 stations).

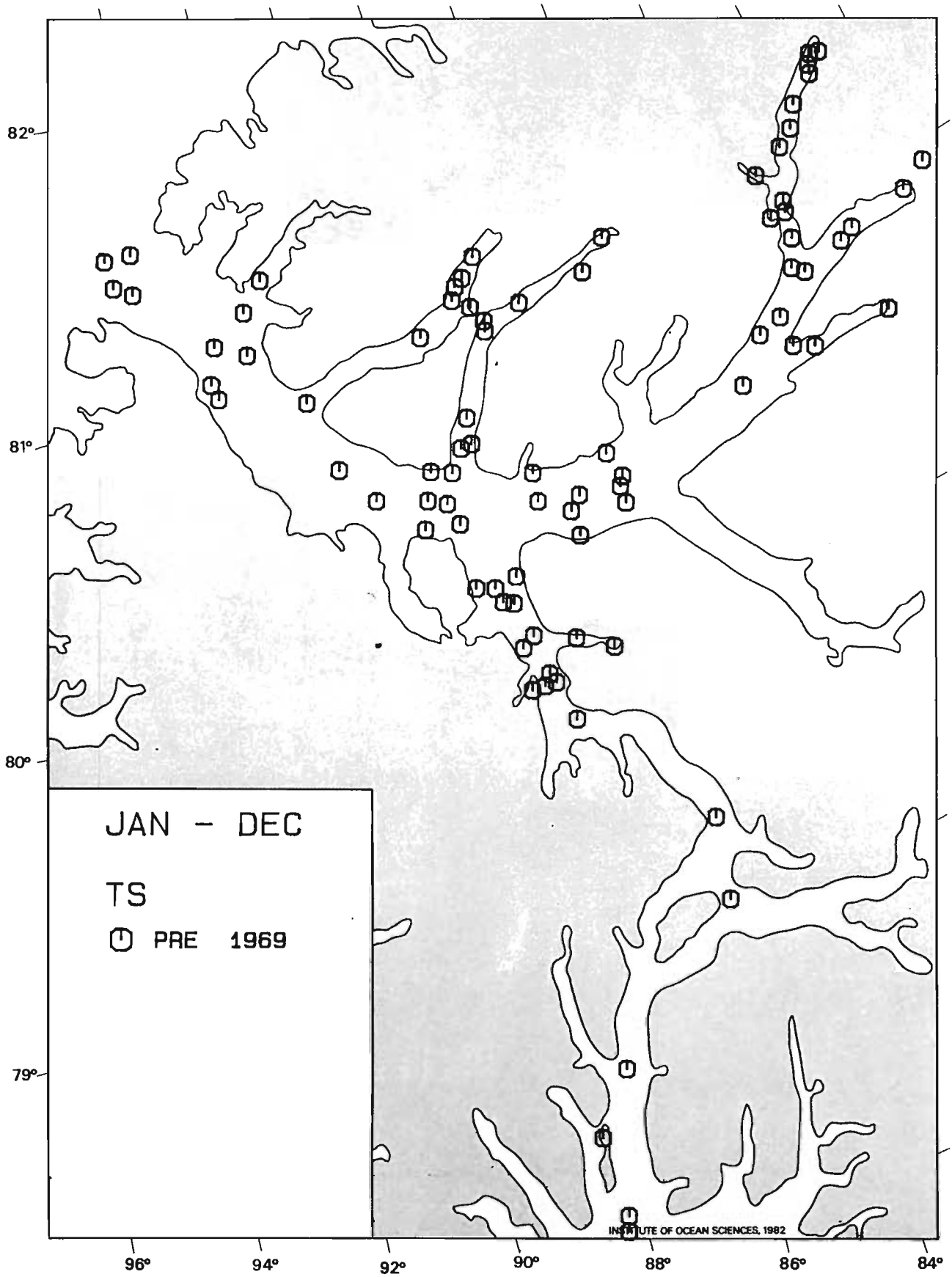

Figure 3b: The locations of temperature-salinity measurements up to and including 1969, Nansen Sound region (202 stations).

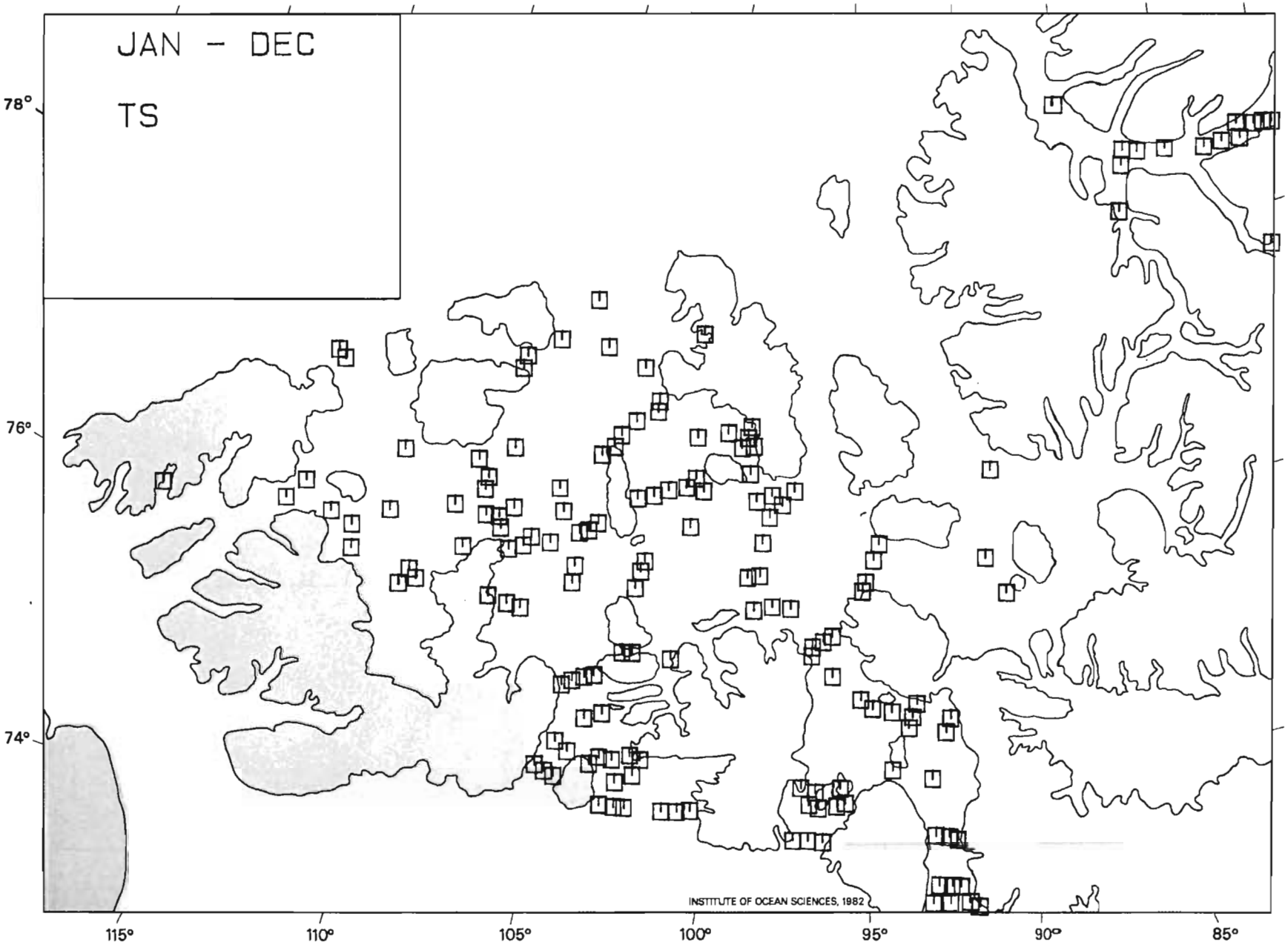

Figure 4a: The locations of temperature-salinity measurements, 1970 to 1988 (501 stations).

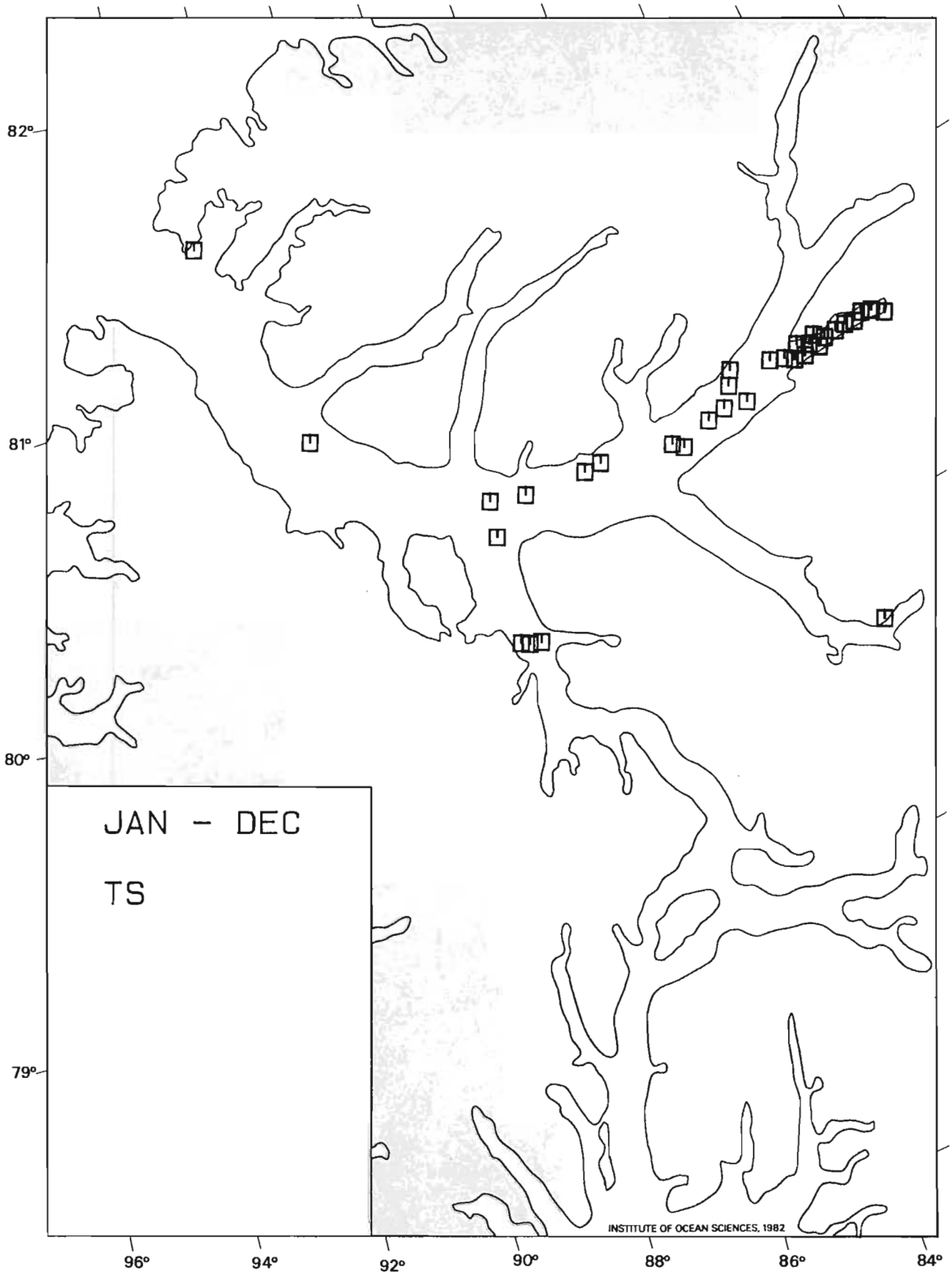

Figure 4b: The locations of temperature-salinity measurements, Nansen Sound region, 1970 to 1988 (129 stations).

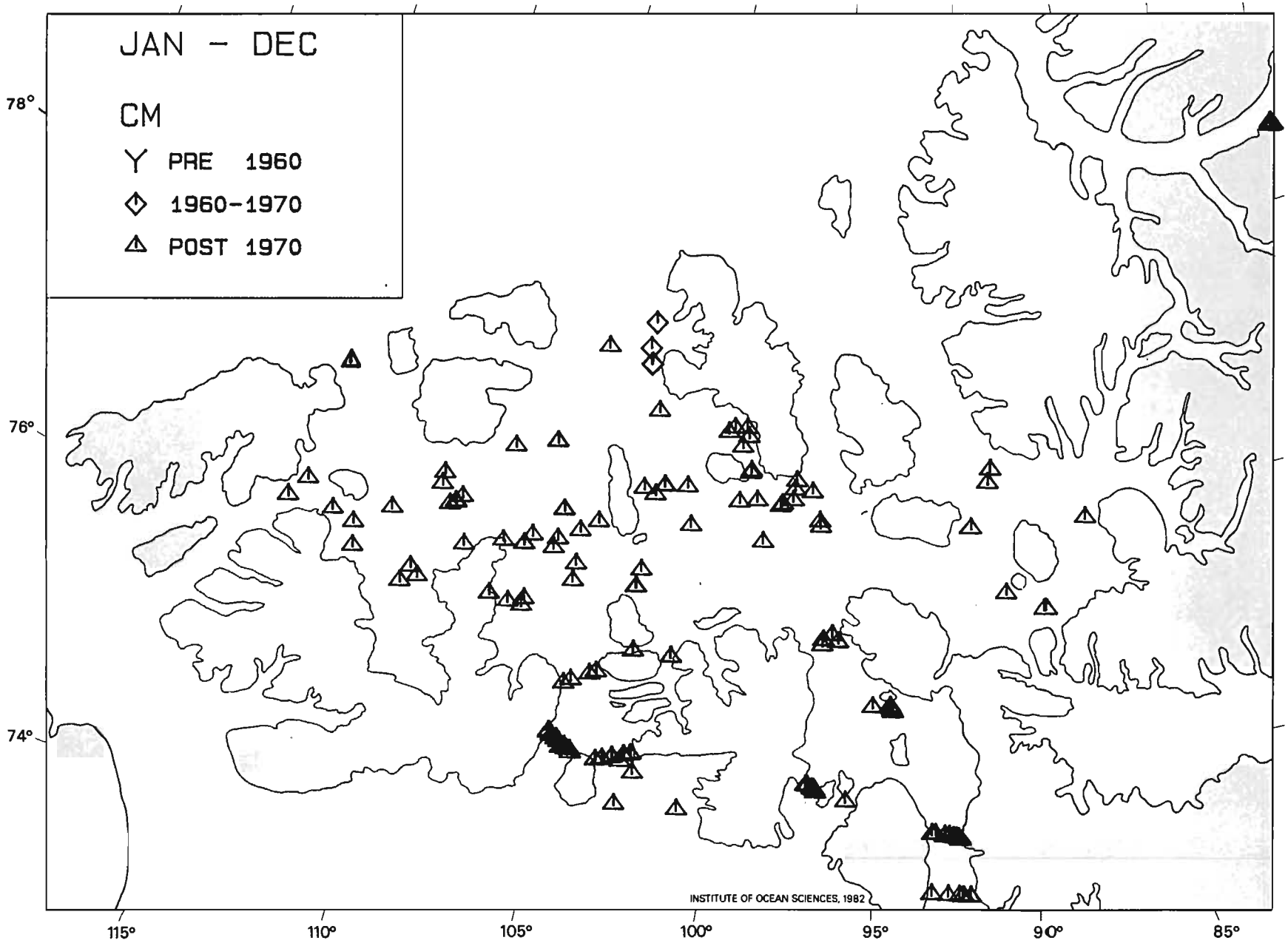

Figure 5a: The locations of all current-meter measurements (216 records).

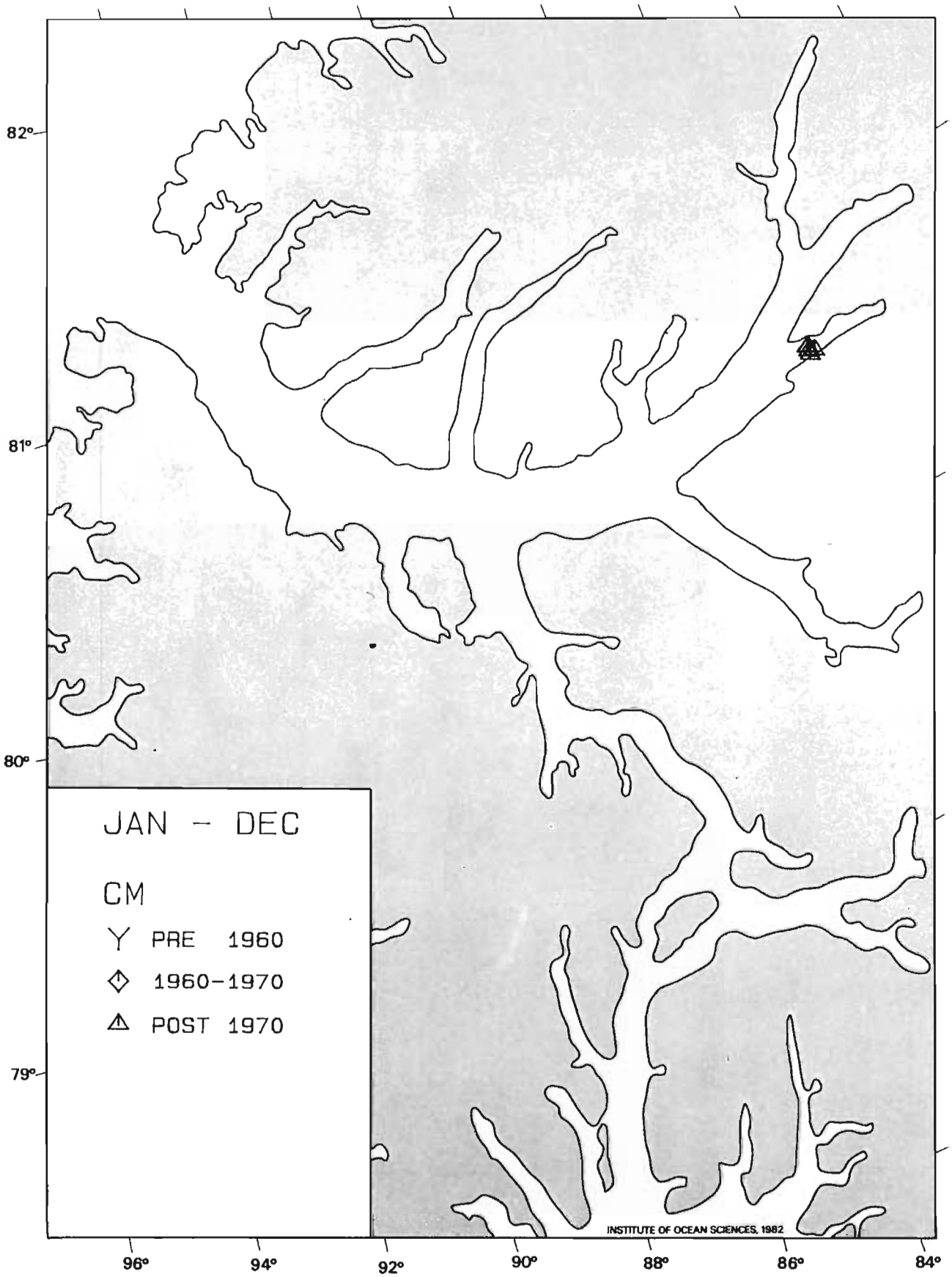

Figure 5b: The locations of all current-meter measurements, Nansen Sound region (10 records).

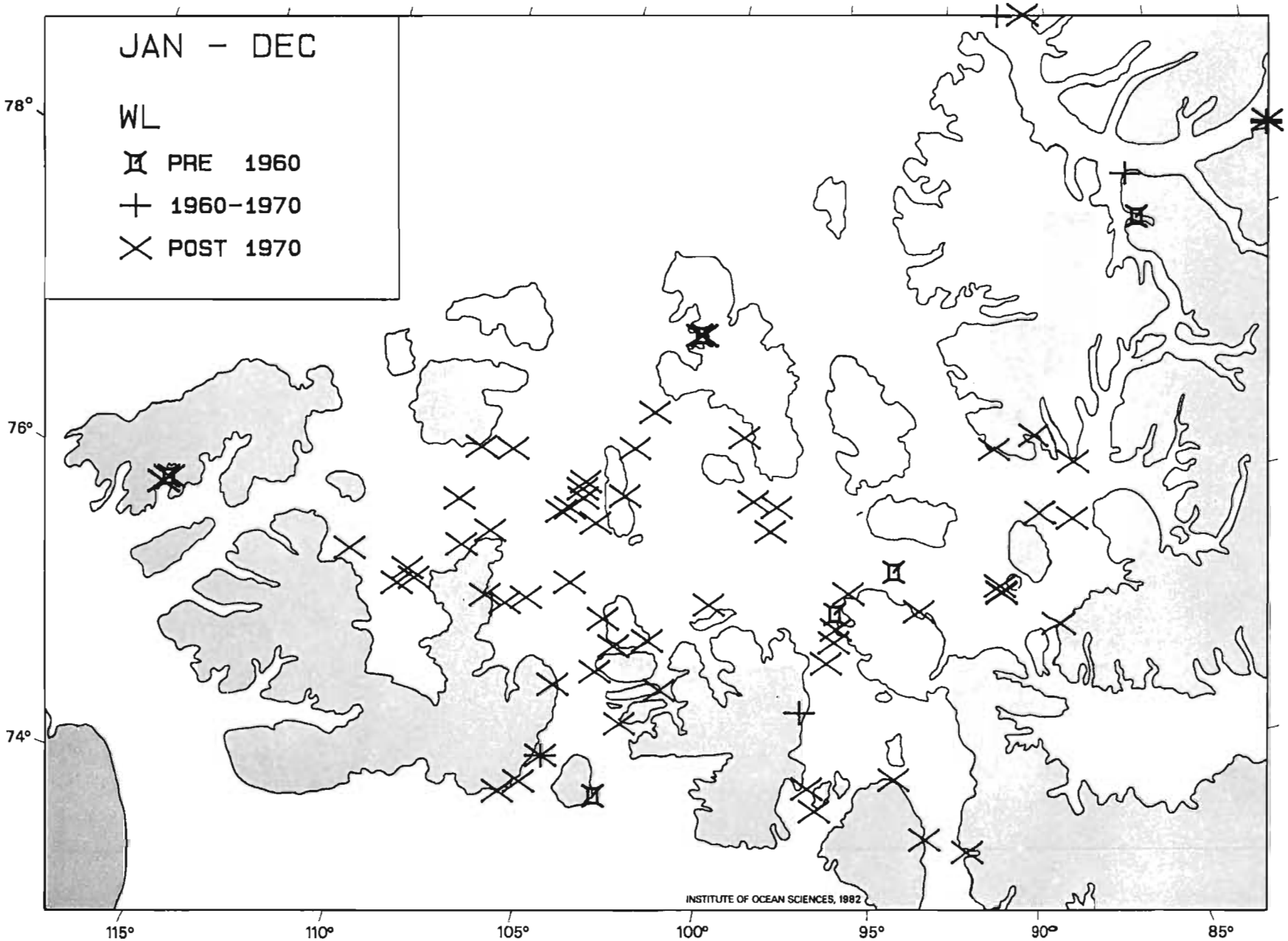

Figure 6a: The locations of all water-level measurements (93 records).

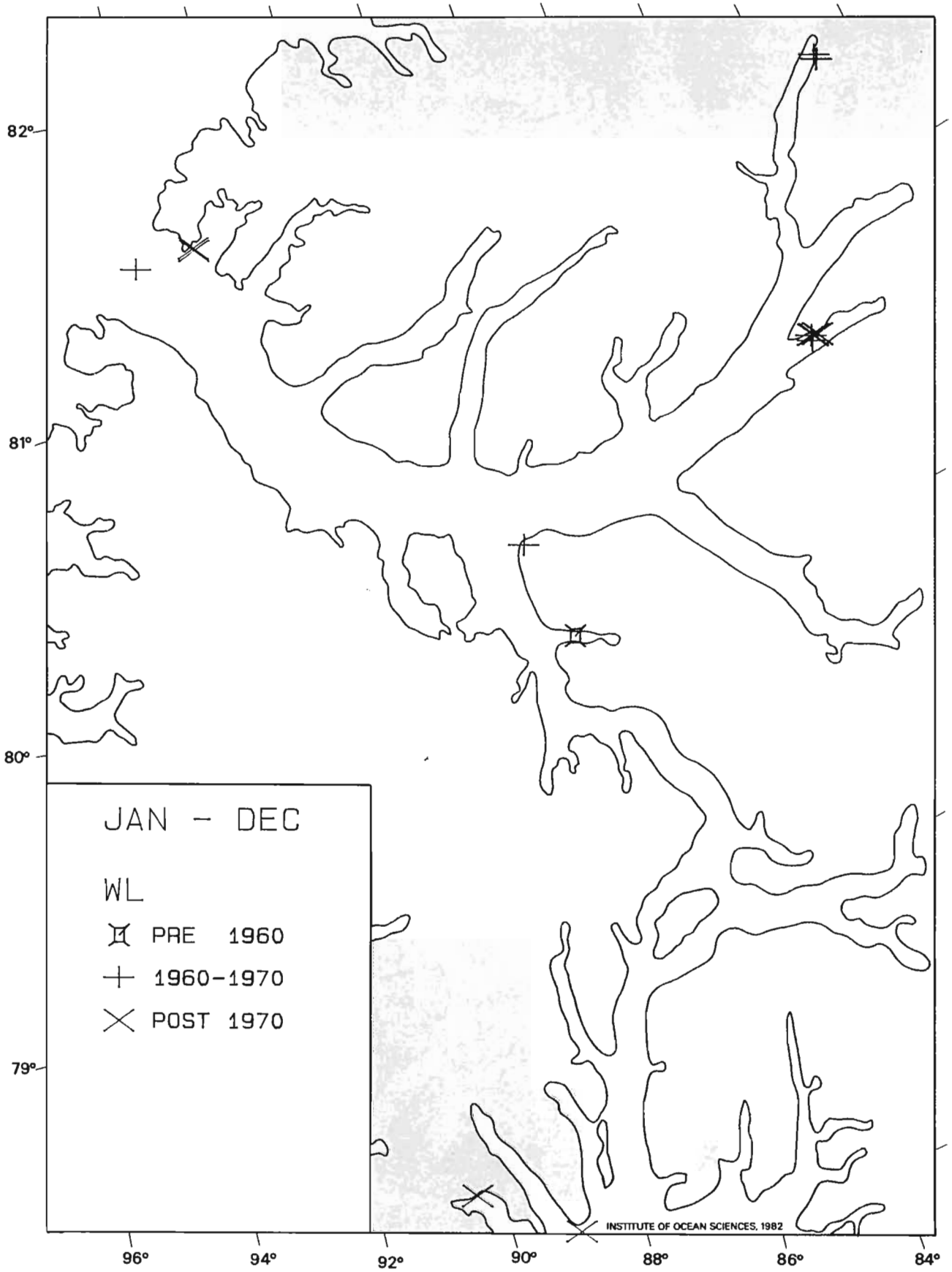

Figure 6b: The locations of all water-level measurements, Nansen Sound region (26 records).

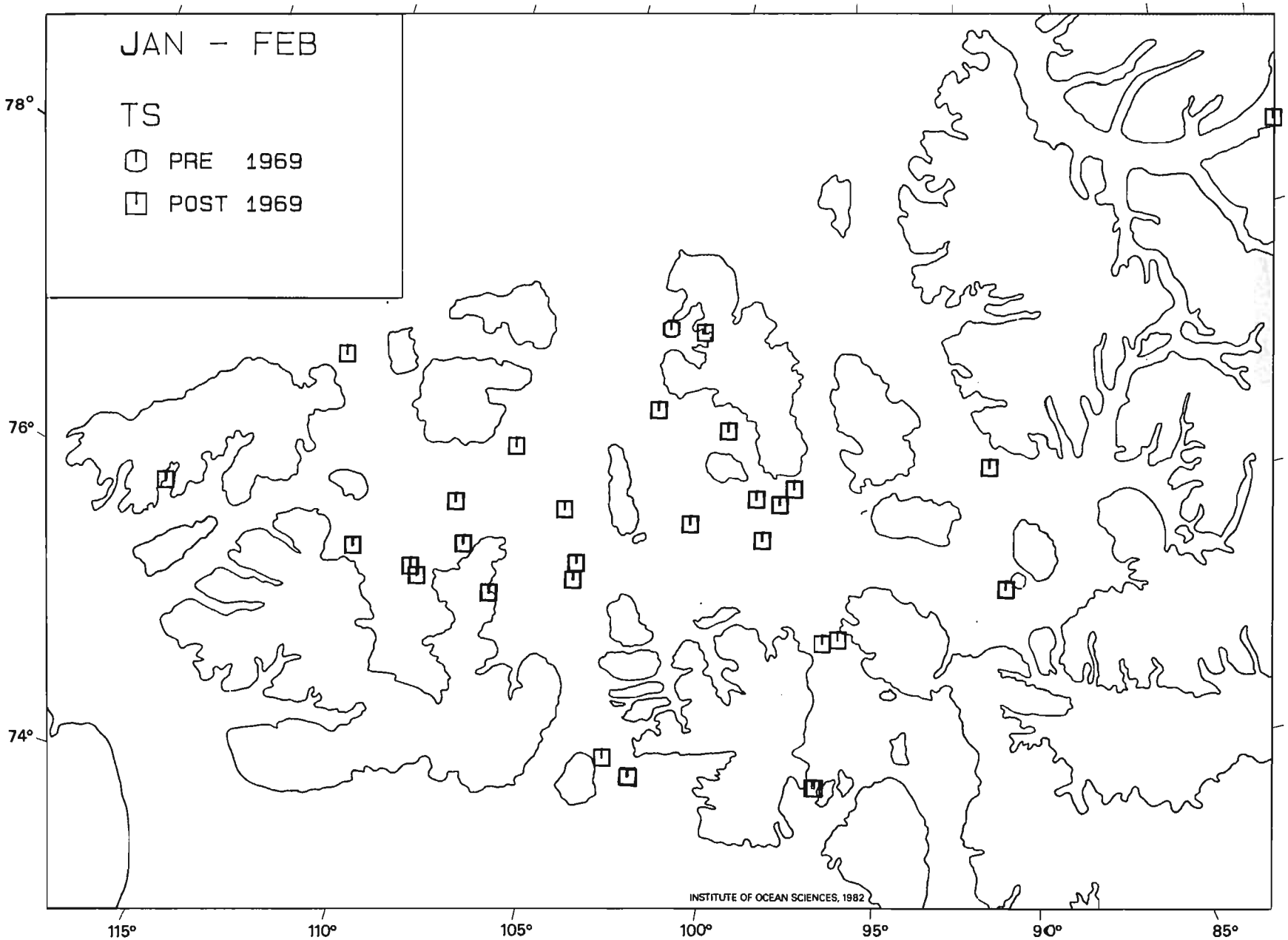

Figure 7a: The locations of temperature-salinity data collected during the January-February period, all years (58 stations).

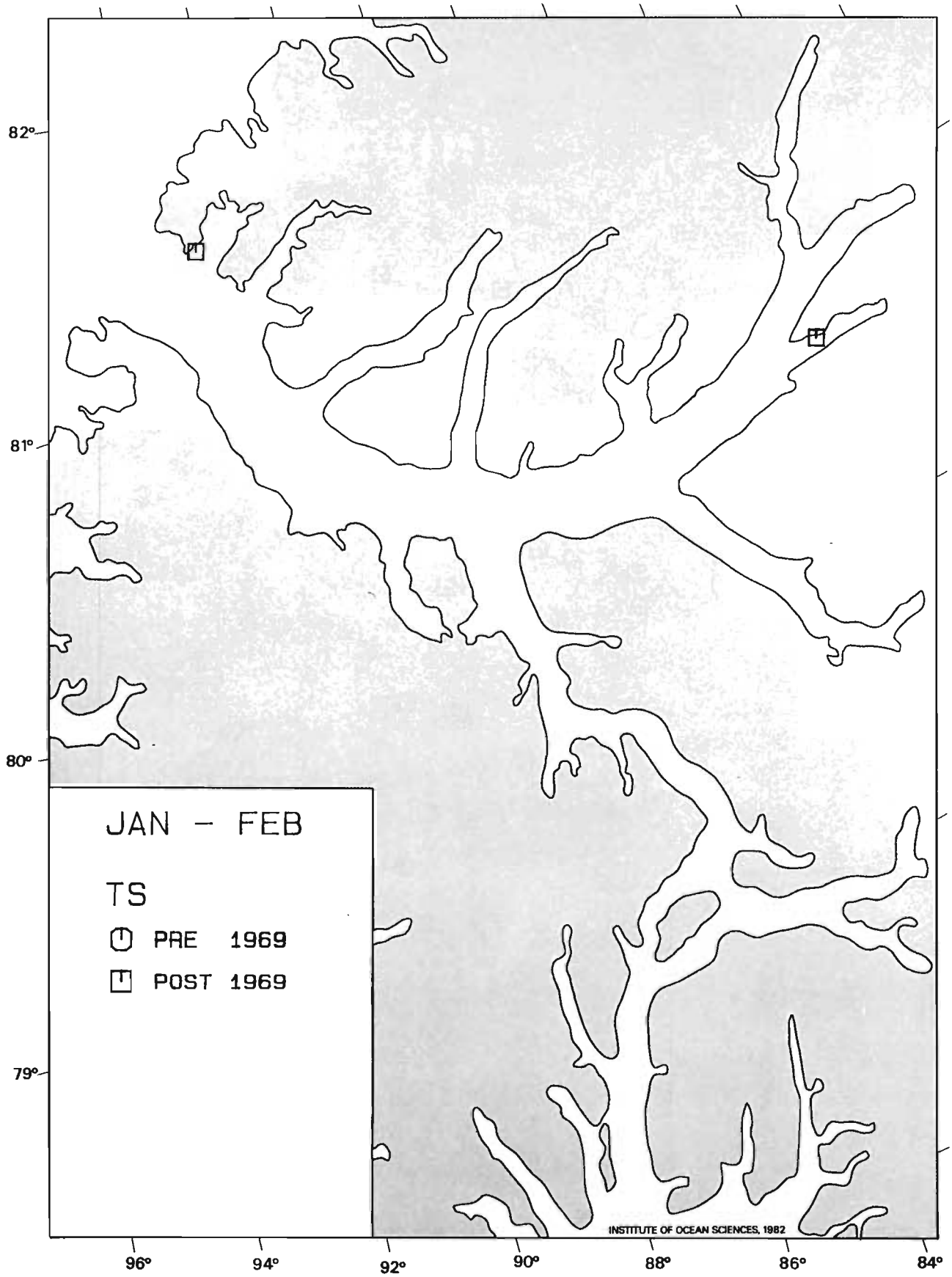

Figure 7b: The locations of temperature-salinity data collected during the January-February period, all years, Nansen Sound region (6 stations).

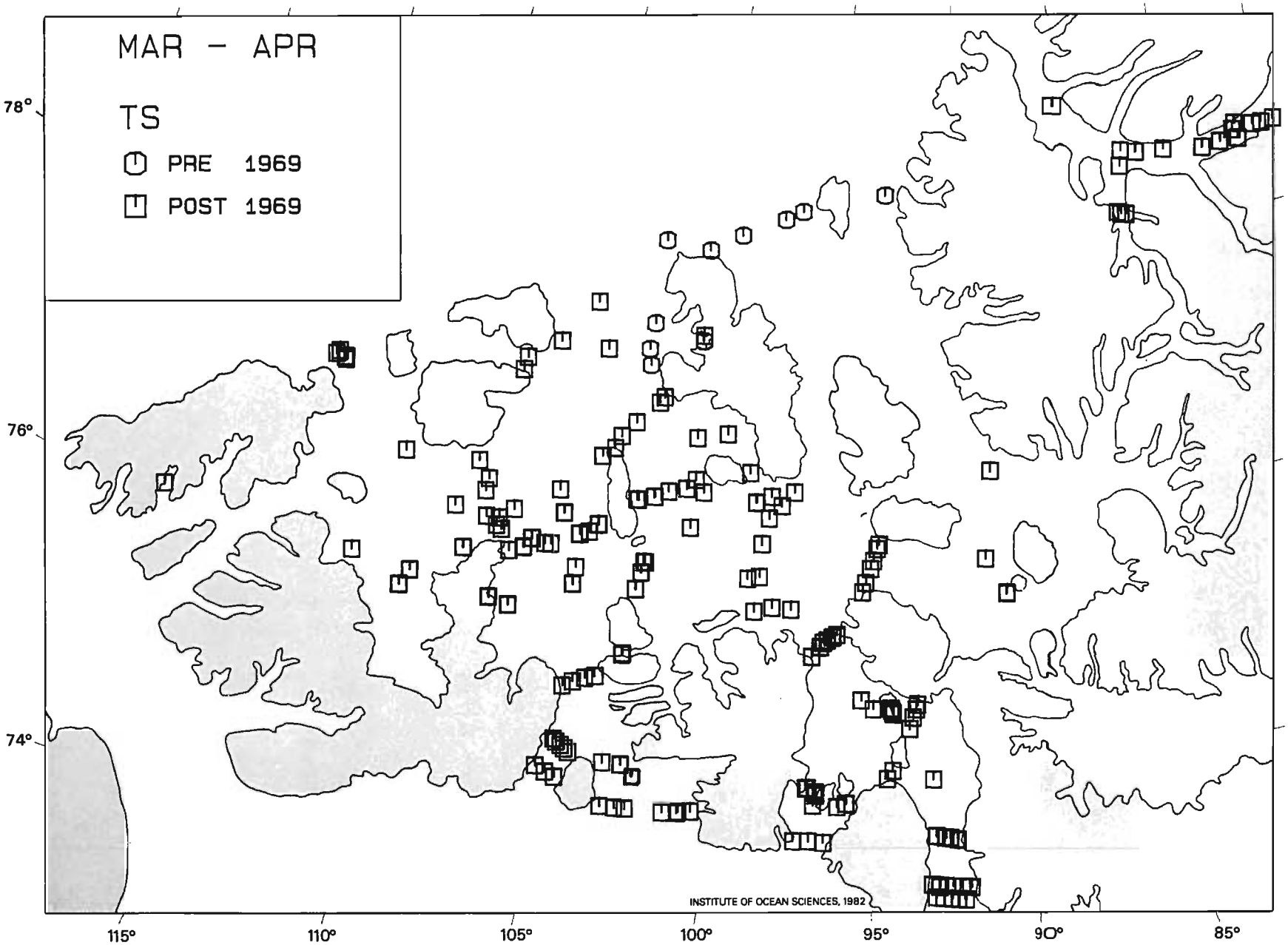

Figure 8a: The locations of temperature-salinity data collected during the March-April period, all years (403 stations).

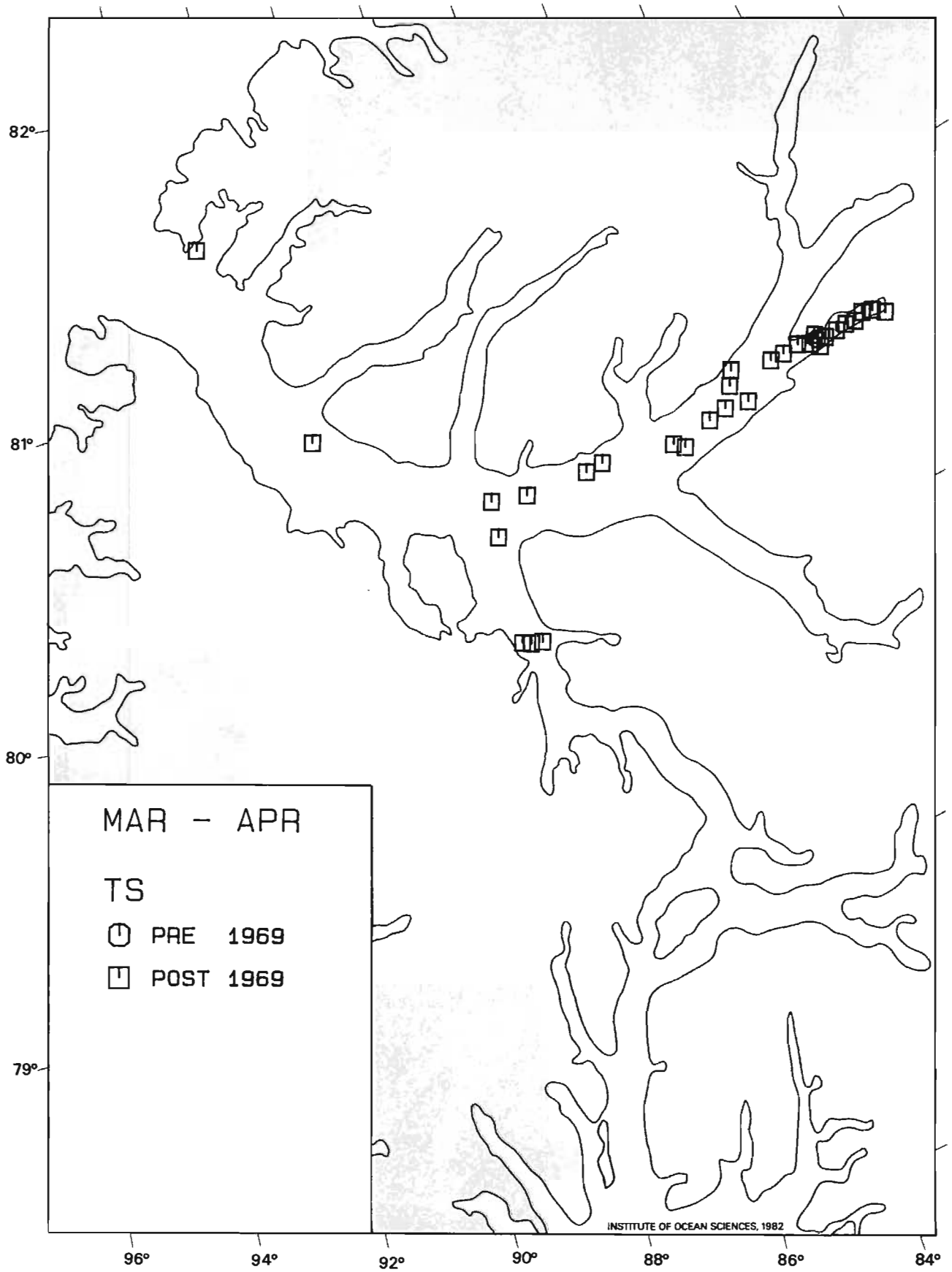

Figure 8b: The locations of temperature-salinity data collected during the March-April period, all years, Nansen Sound region (118 stations).

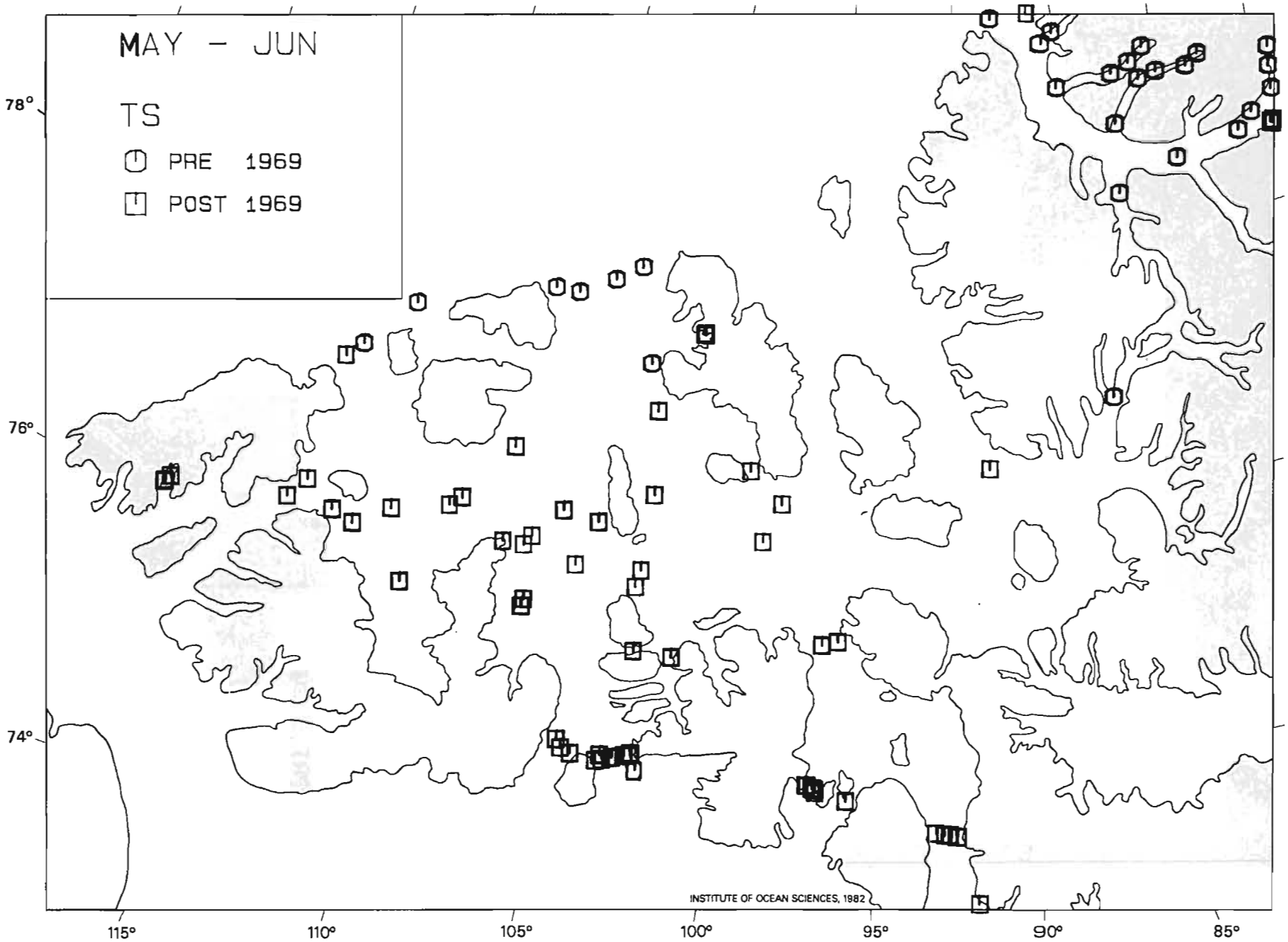

Figure 9a: The locations of temperature-salinity data collected during the May-June period, all years (149 stations).

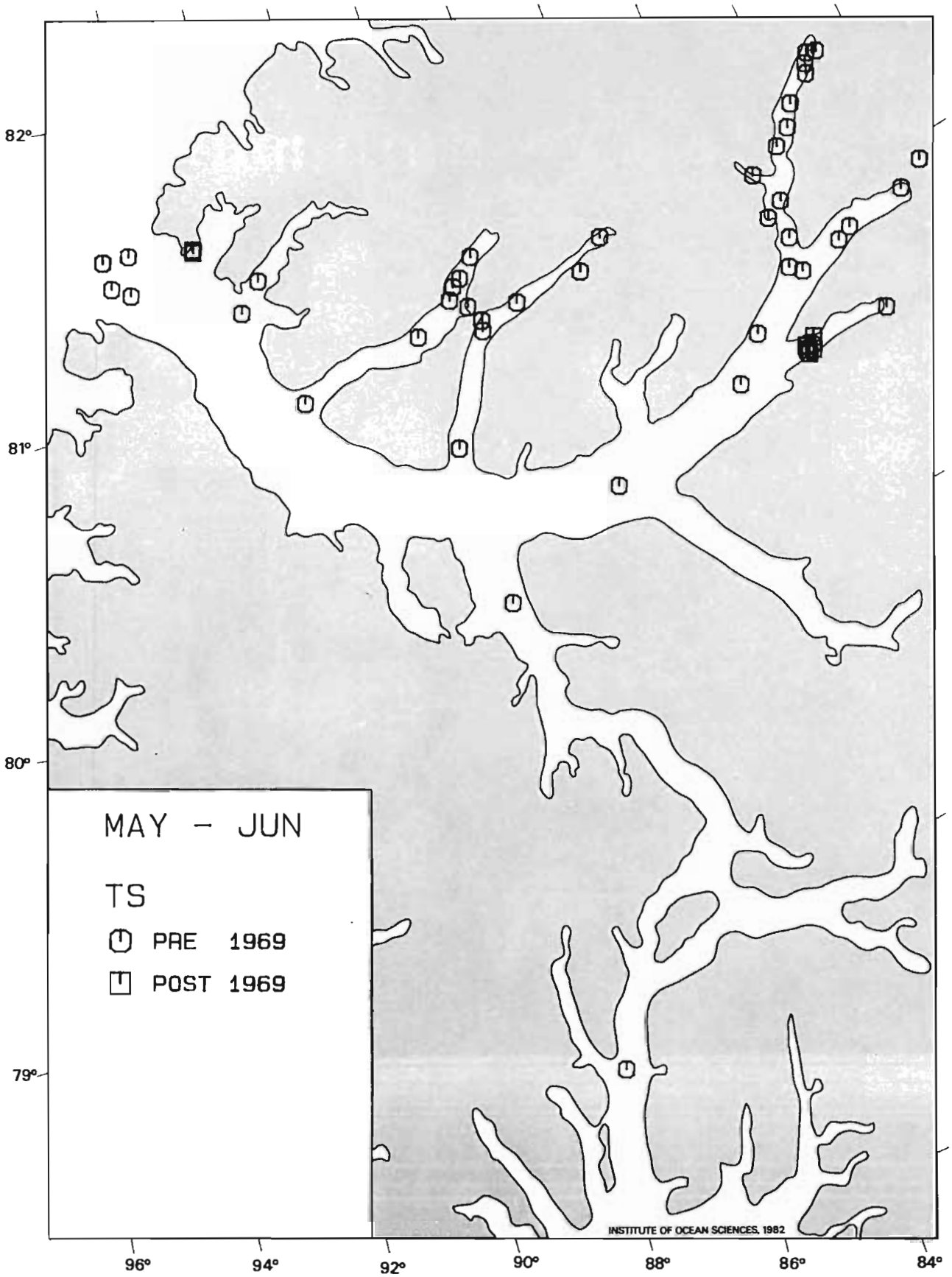

Figure 9b: The locations of temperature-salinity data collected during the May-June period, all years, Nansen Sound region (109 stations).

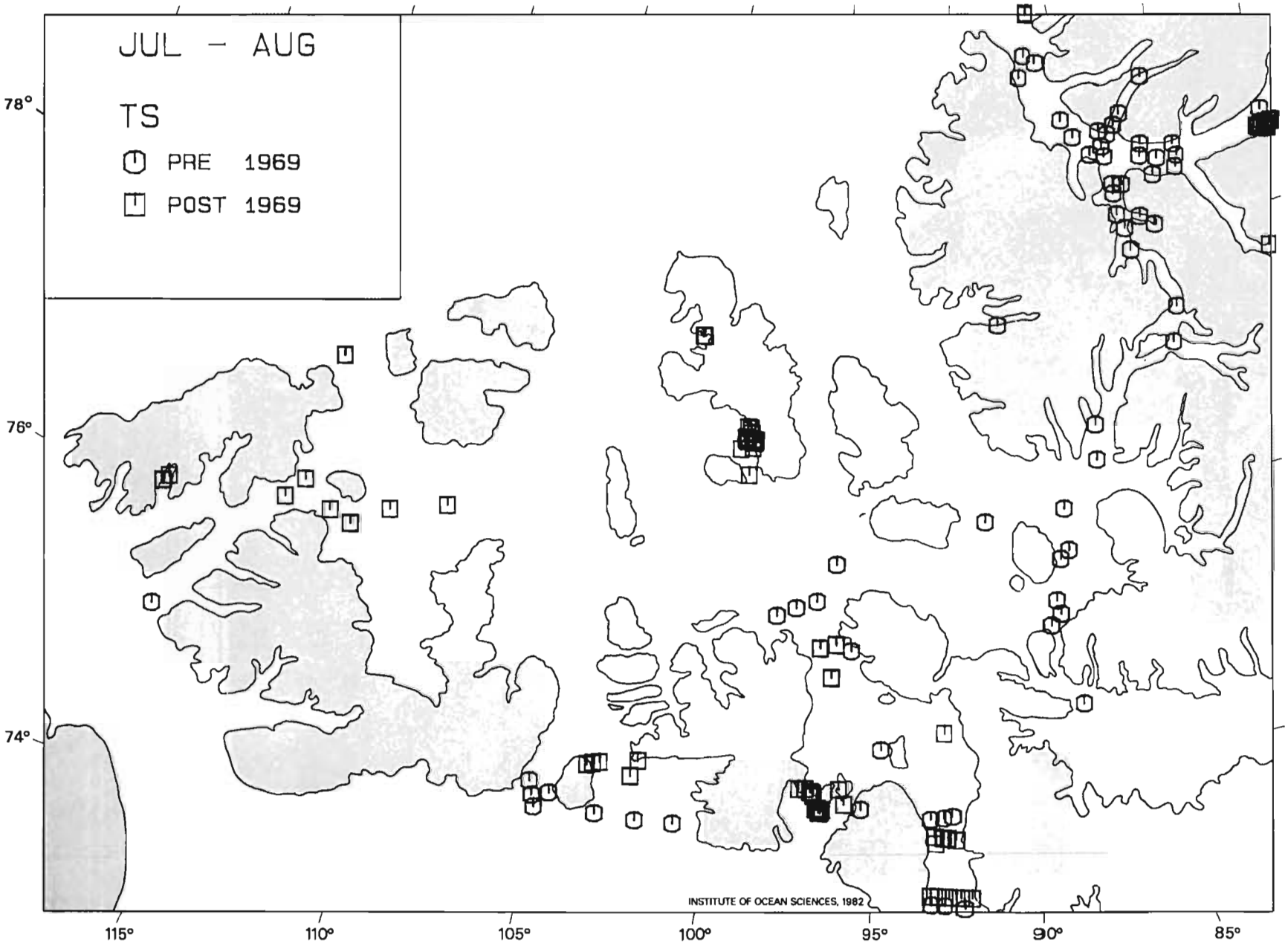

Figure 10a: The locations of temperature-salinity data collected during the July-August period, all years (200 stns).

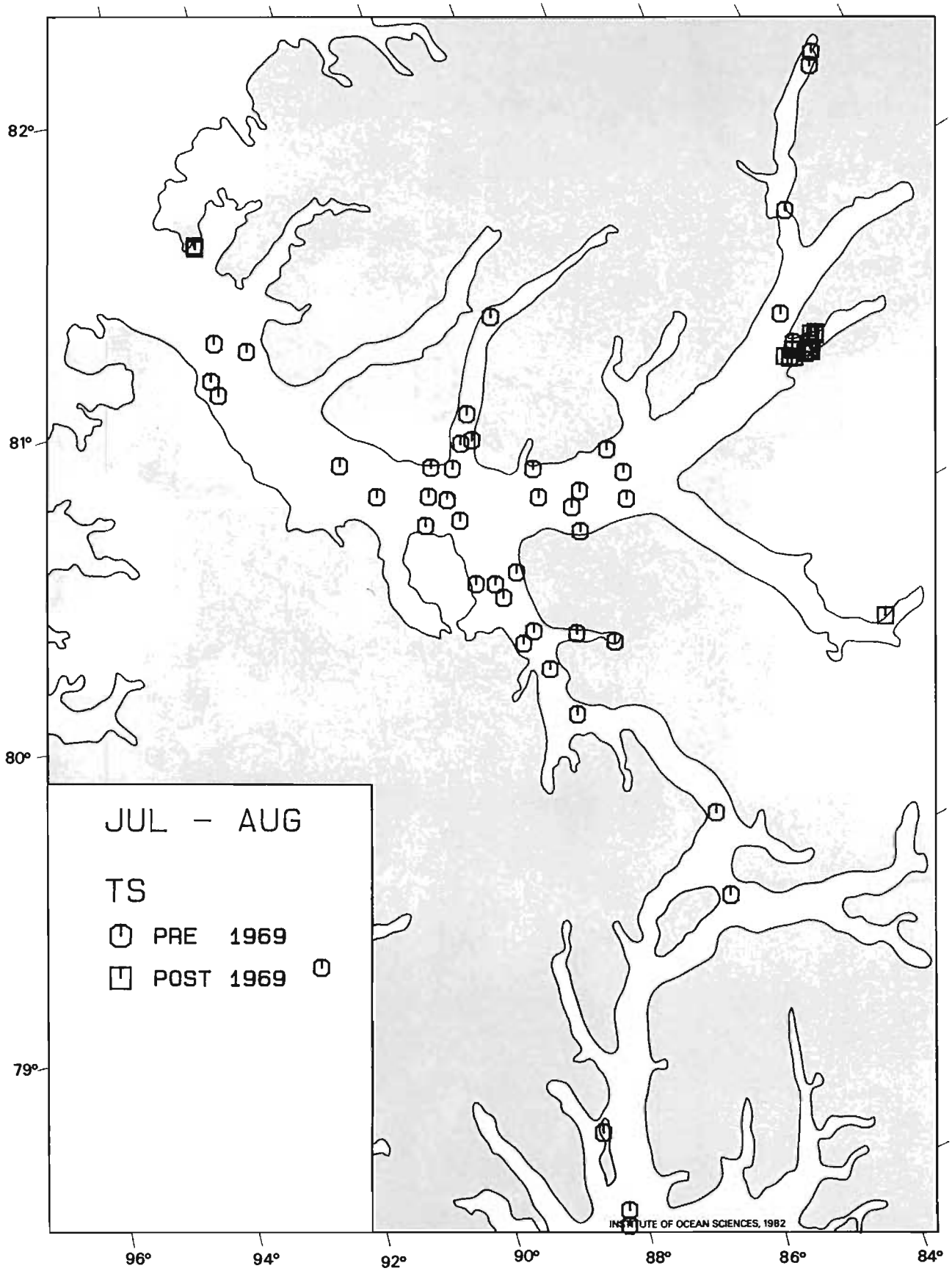

Figure 10b: The locations of temperature-salinity data collected during the July-August period, all years, Nansen Sound region (120 stations).

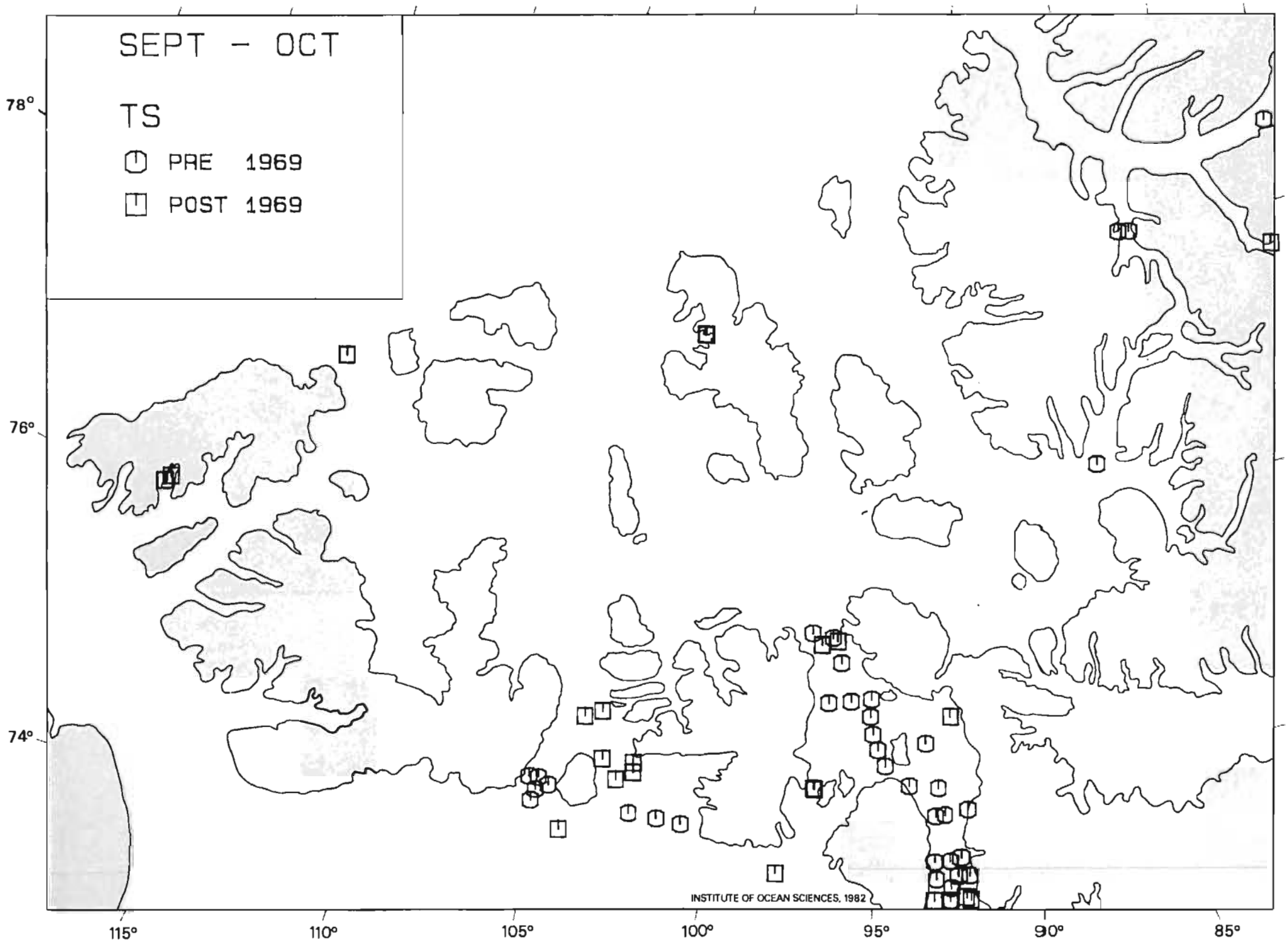

Figure 11a: The locations of temperature-salinity data collected during the September-October period, all years (75 stns).

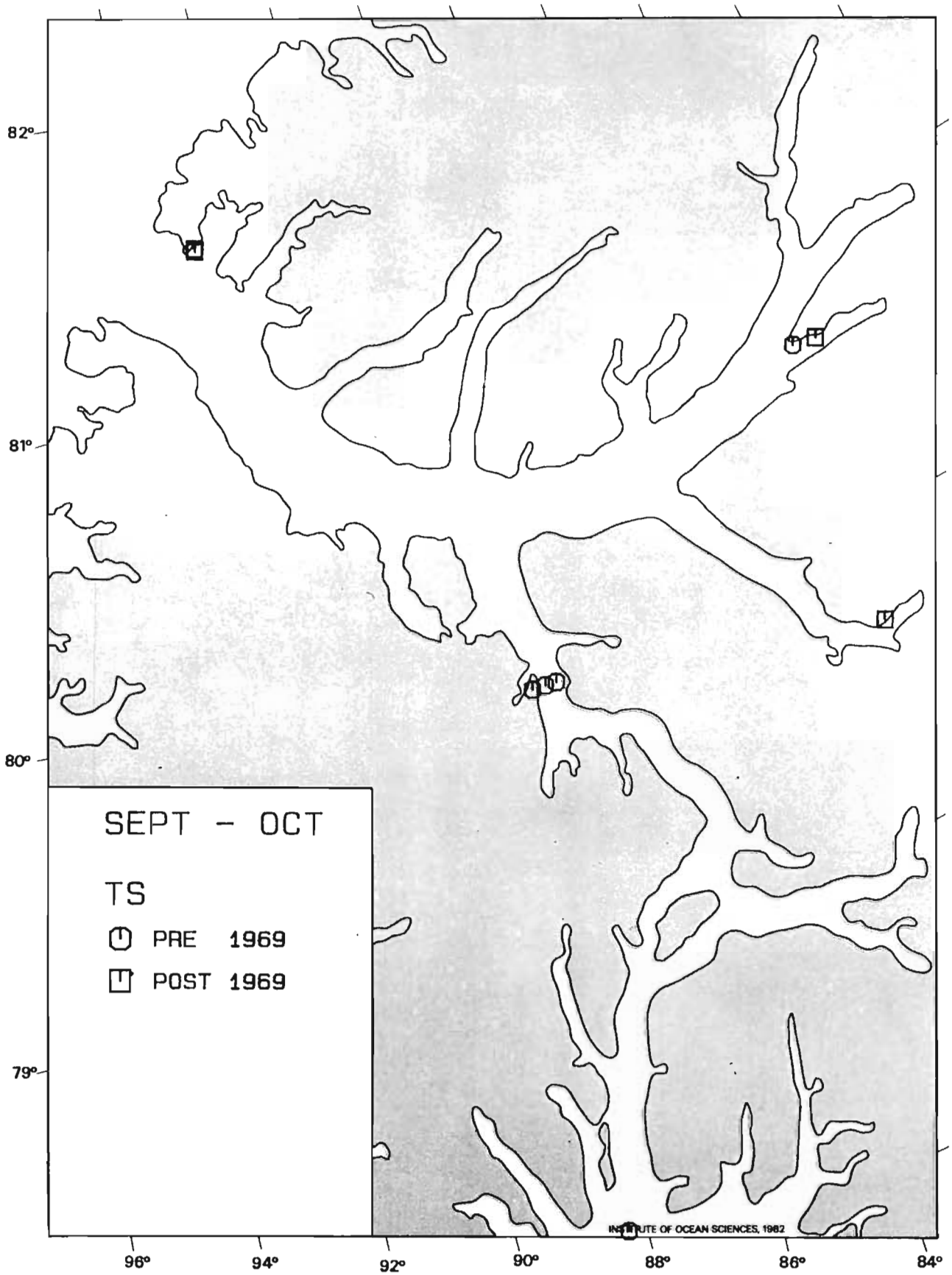

Figure 11b: The locations of temperature-salinity data collected during the September-October period, all years, Nansen Sound region (12 stations).

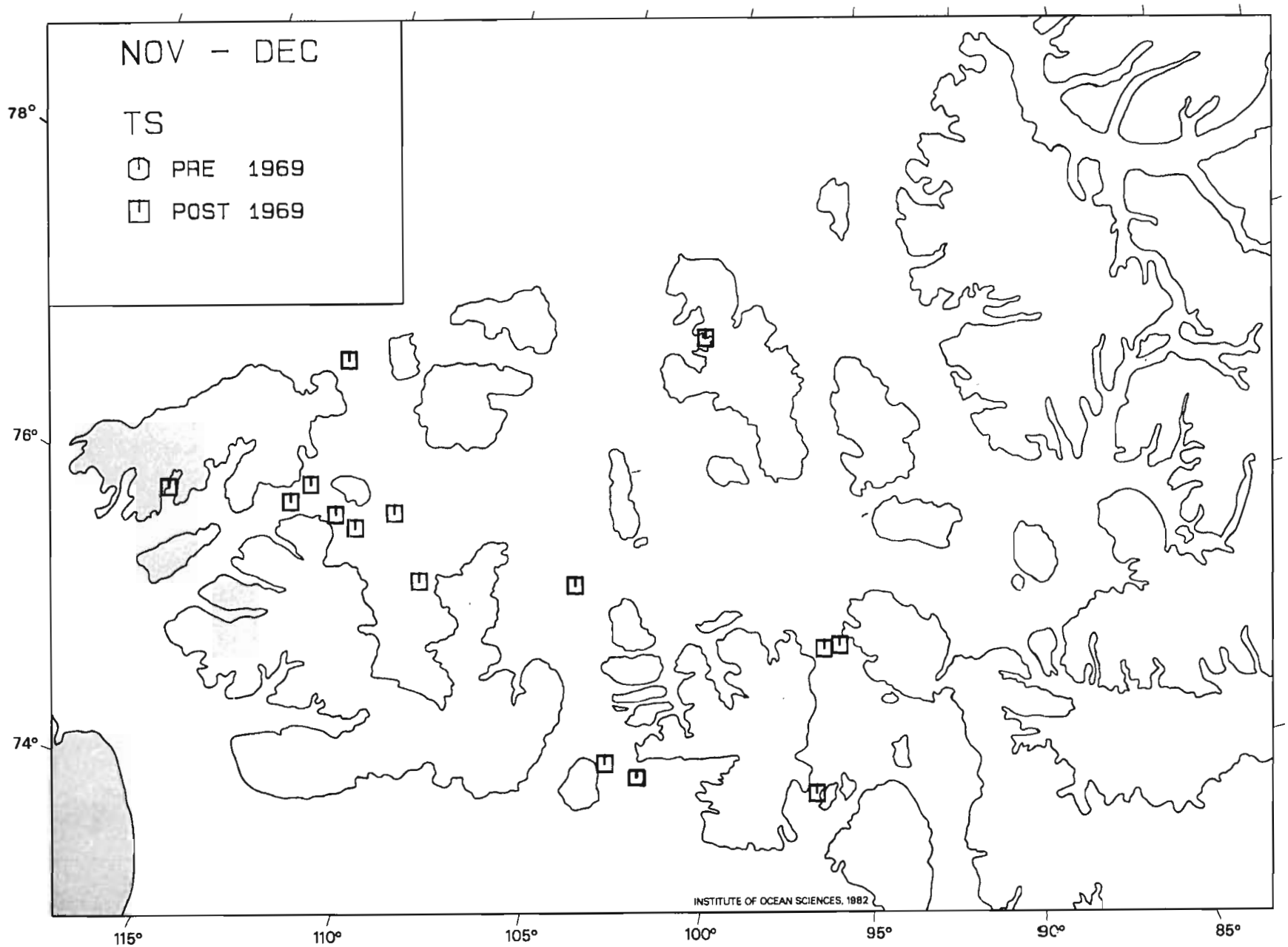

Figure 12a: The locations of temperature-salinity data collected during the November-December period, all years (25 stations).

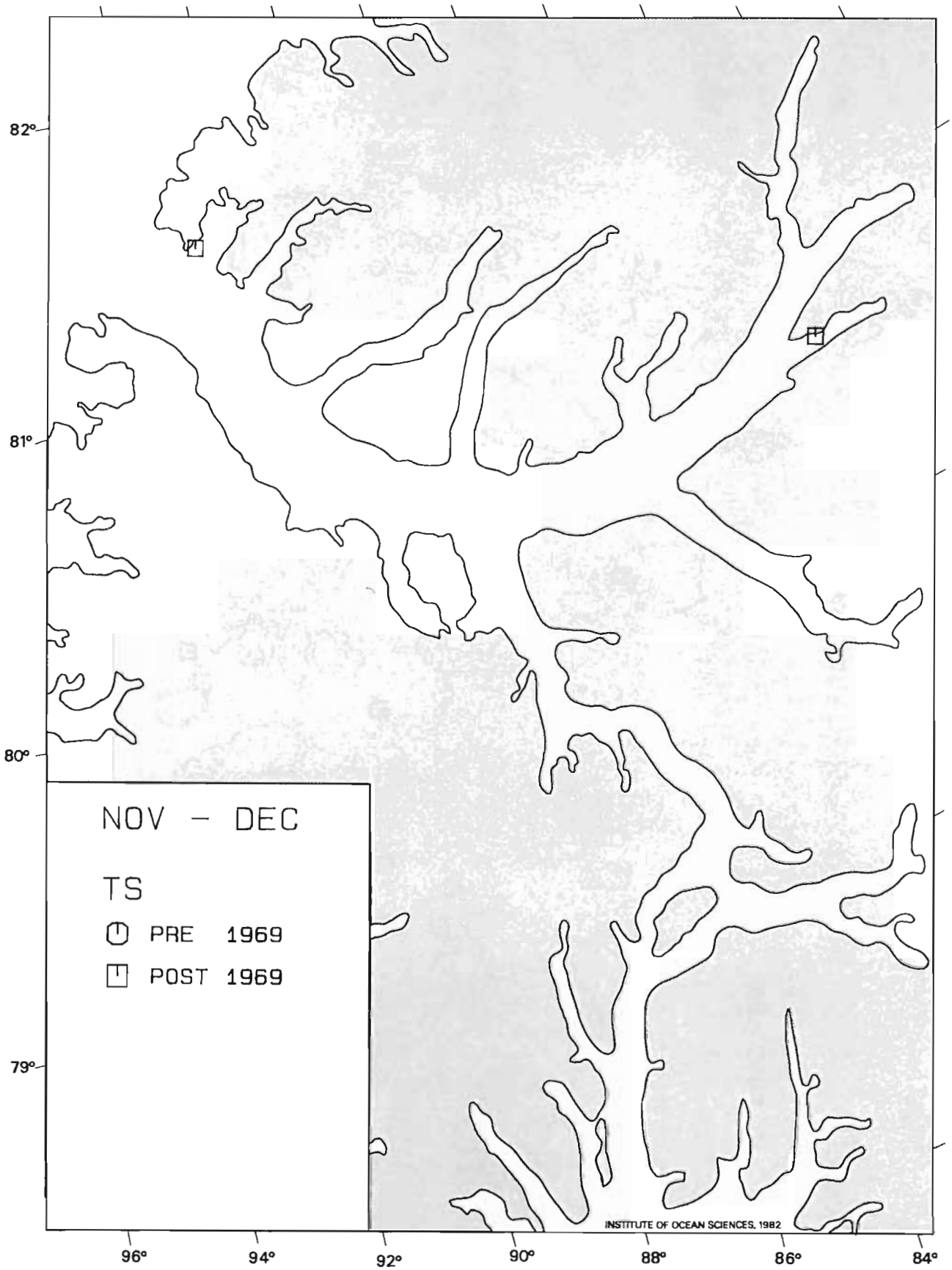

Figure 12b: The locations of temperature-salinity data collected during the November-December period, all years, Nansen Sound region (5 stations).

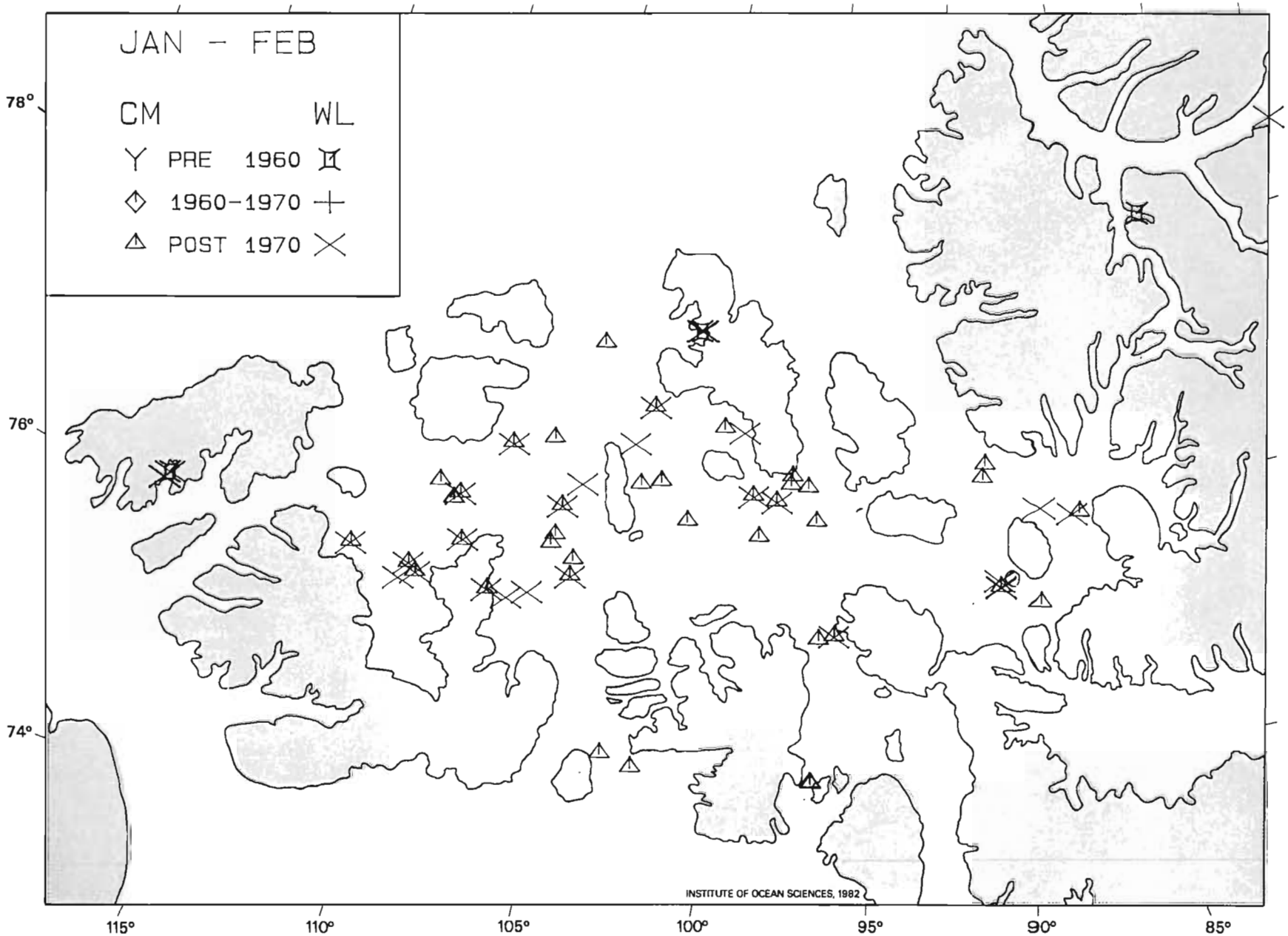

Figure 13a: The locations of all current-meter (CM) and water-level (WL) stations in place during the January-February period, all years (56 CM, 40 WL).

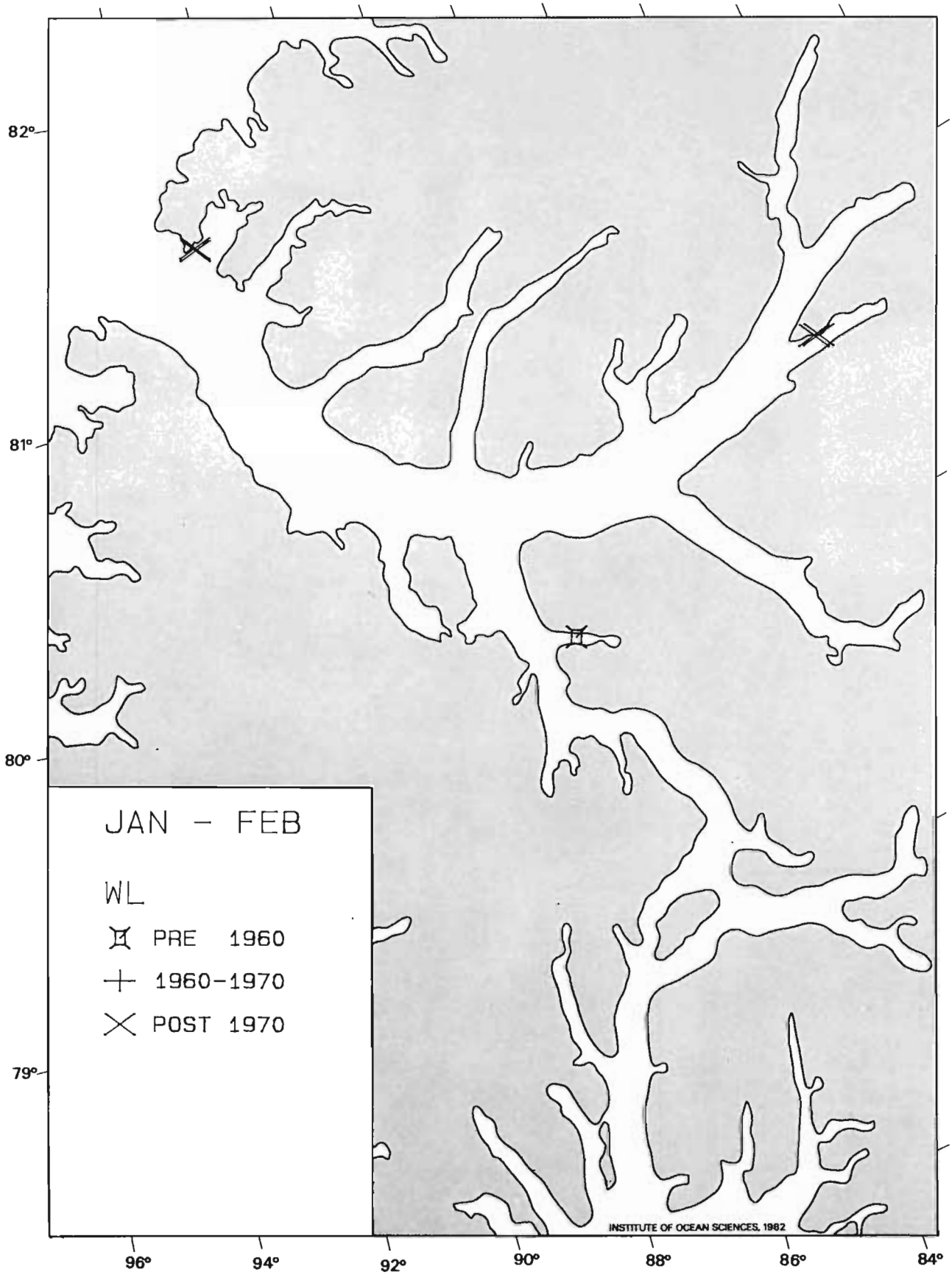

Figure 13b: The locations of all current-meter (CM) and water-level (WL) stations in place during the January-February period, all years, Nansen Sound region (no CM, 8 WL).

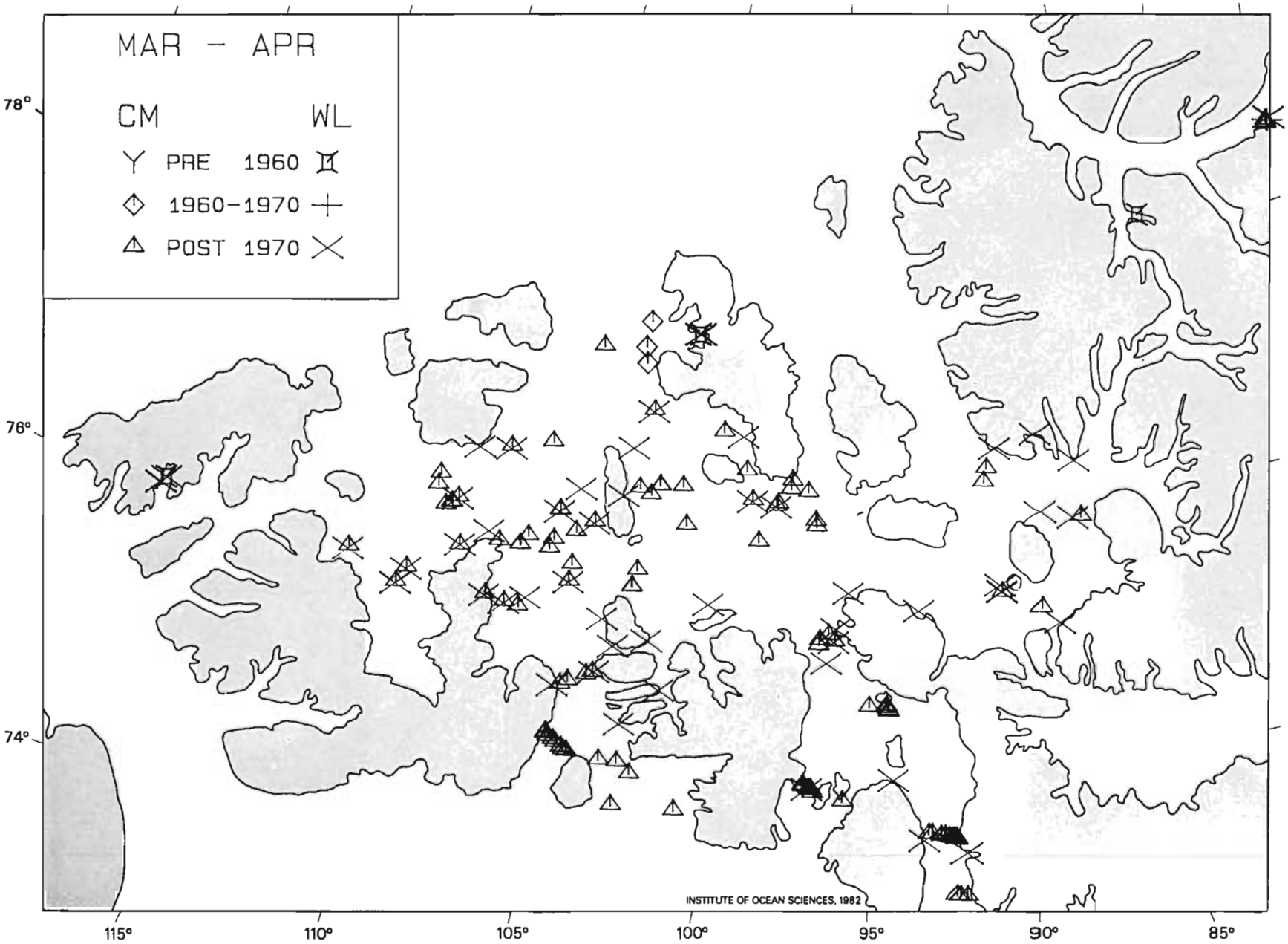

Figure 14a: The locations of all current-meter (CM) and water-level (WL) stations in place during the March-April period, all years (173 CM, 69 WL).

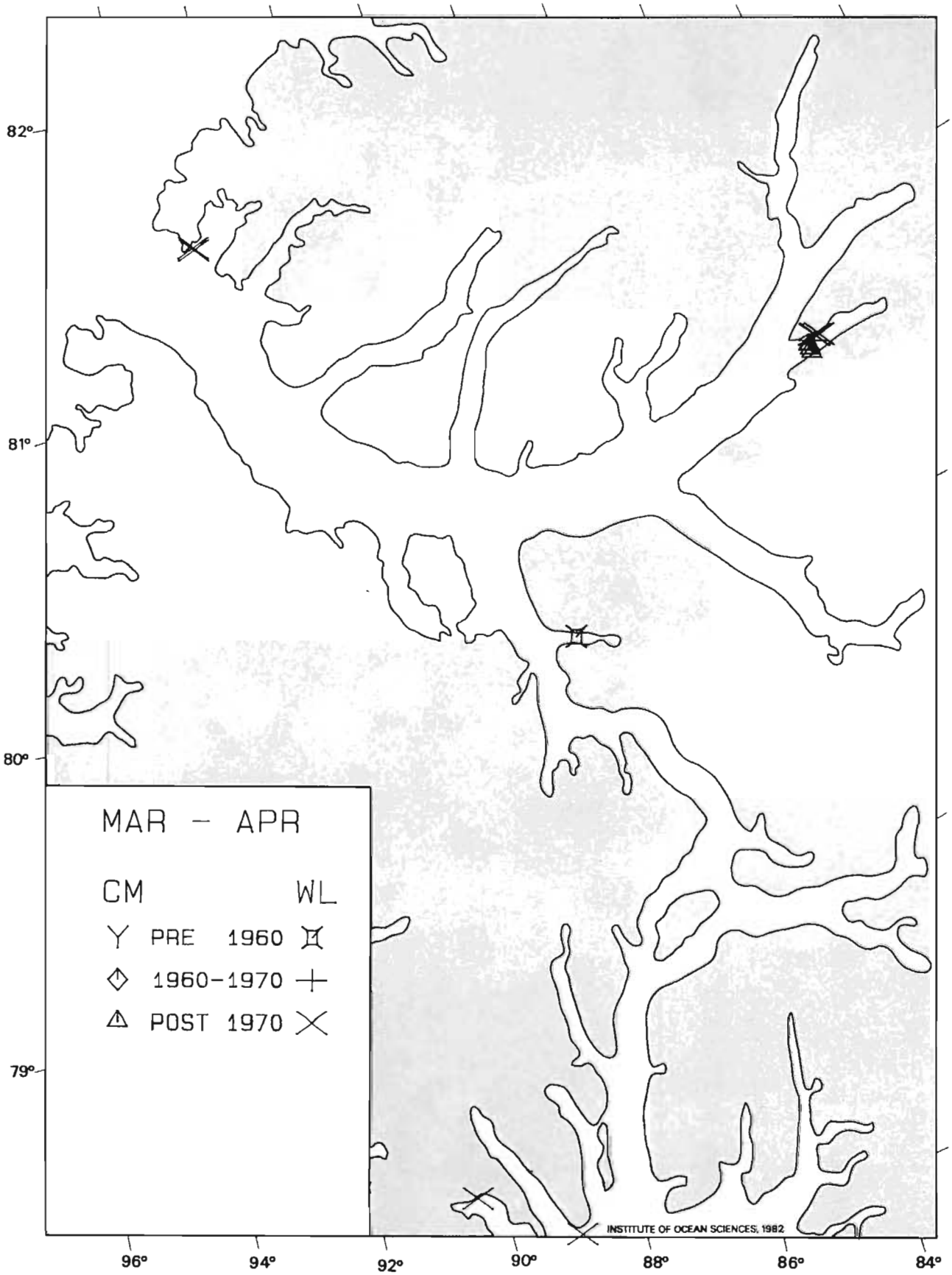

Figure 14b: The locations of all current-meter (CM) and water-level (WL) stations in place during the March-April period, all years, Nansen Sound region (7 CM, 16 WL).

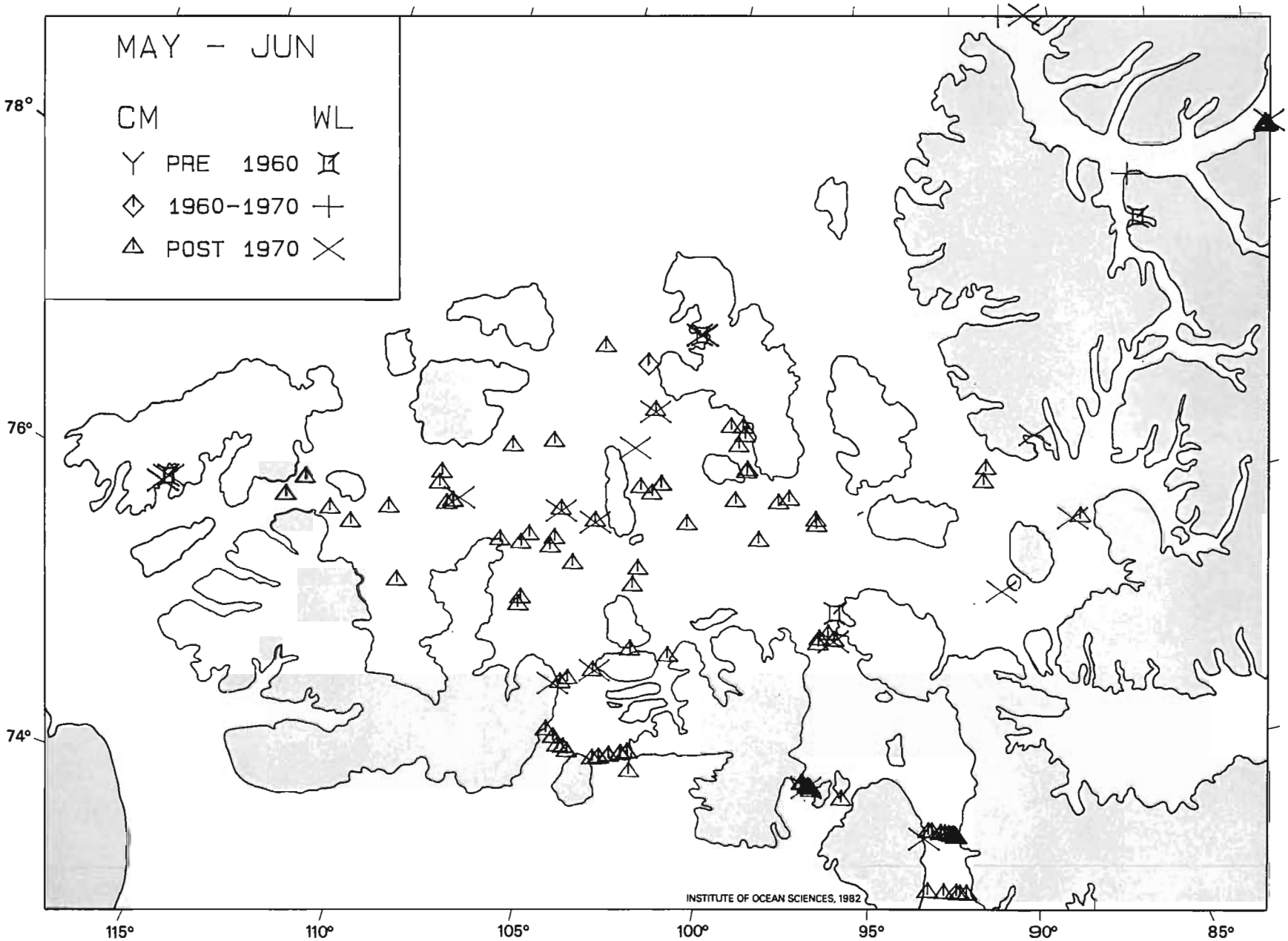

Figure 15a: The locations of all current-meter (CM) and water-level (WL) stations in place during the May-June period, all years (146 CM, 35 WL).

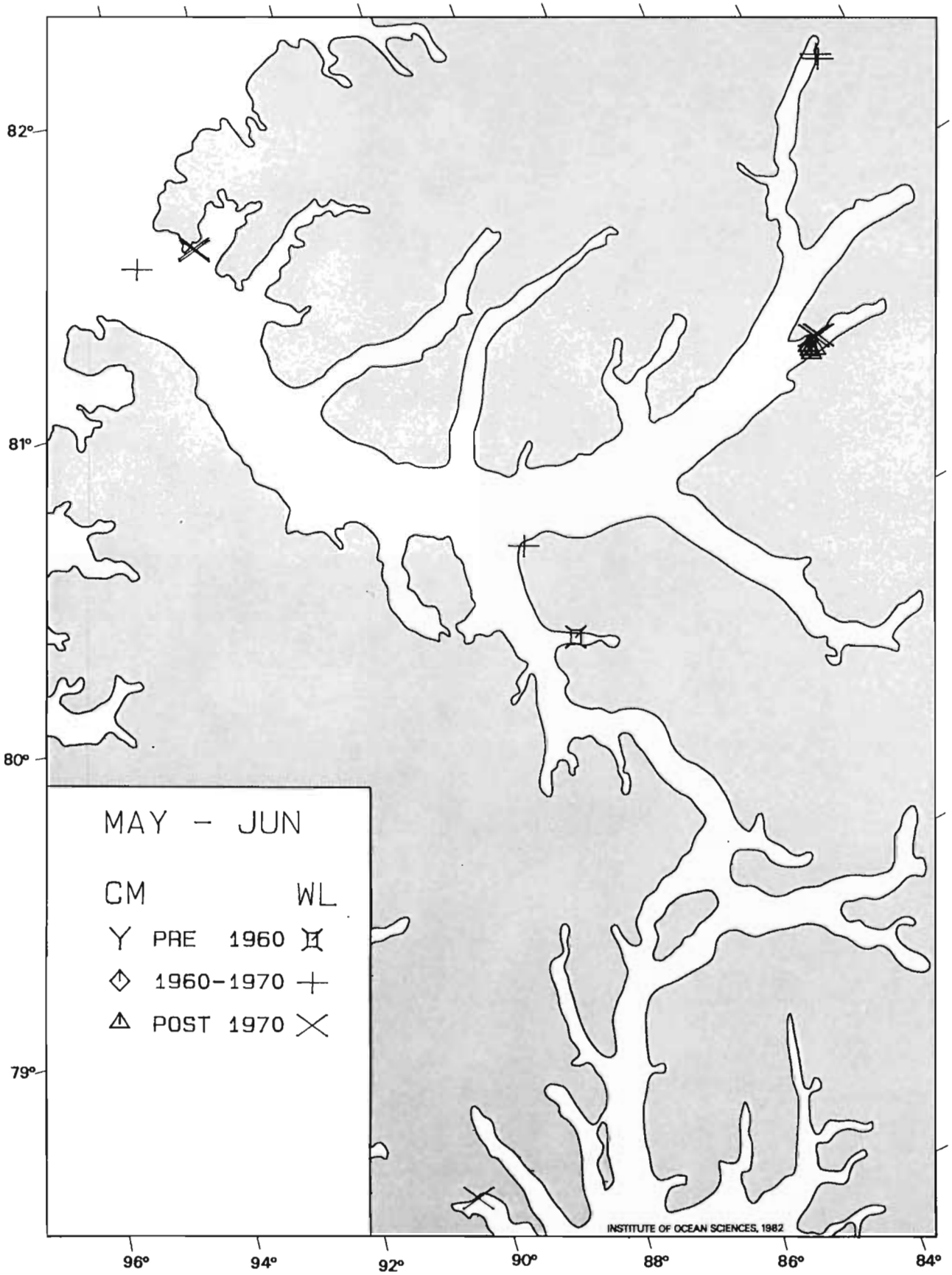

Figure 15b: The locations of all current-meter (CM) and water-level (WL) stations in place during the May-June period, all years, Nansen Sound region (10 CM, 17 WL).

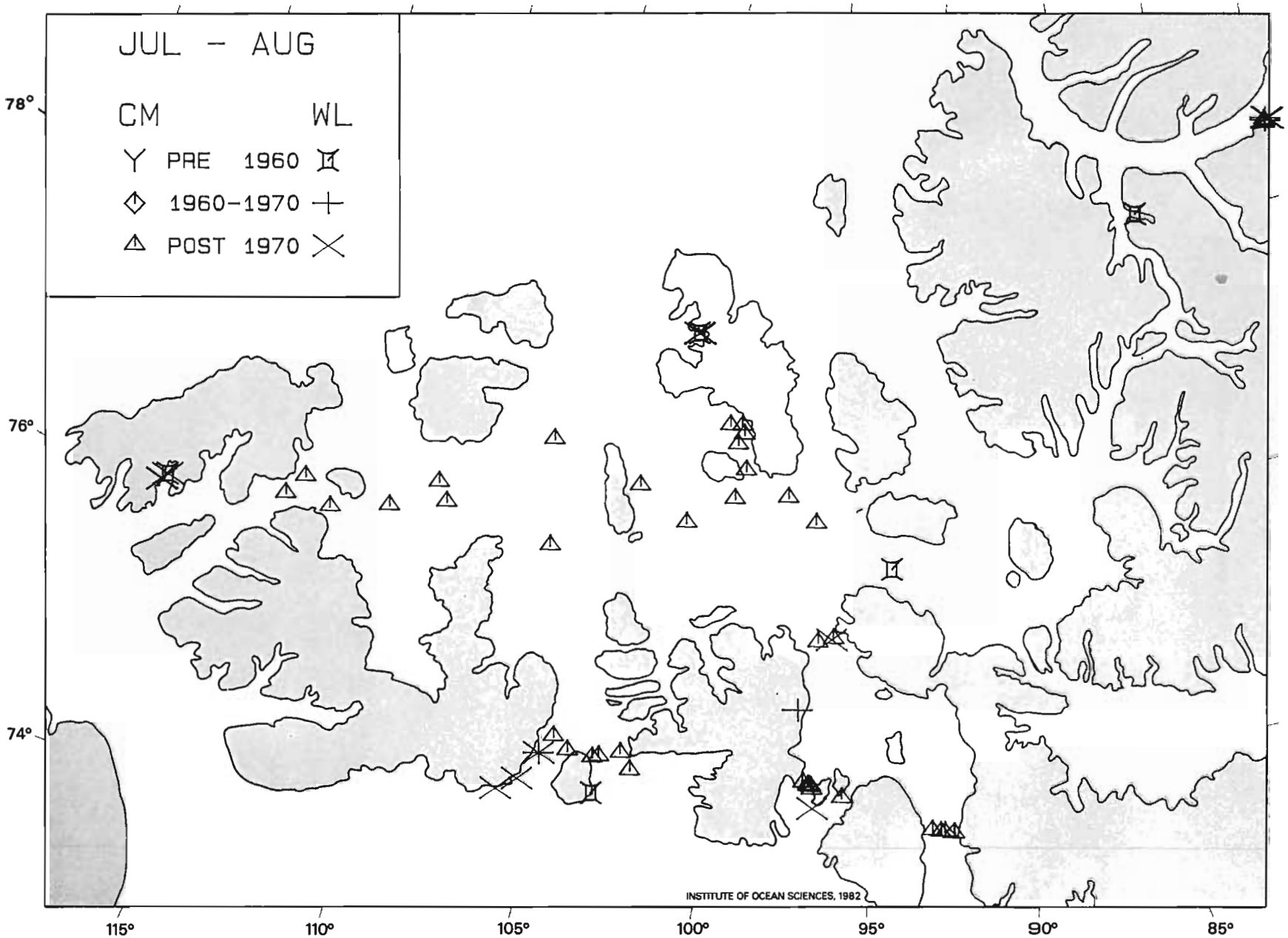

Figure 16a: The locations of all current-meter (CM) and water-level (WL) stations in place during the July-August period, all years (55 CM, 30 WL).

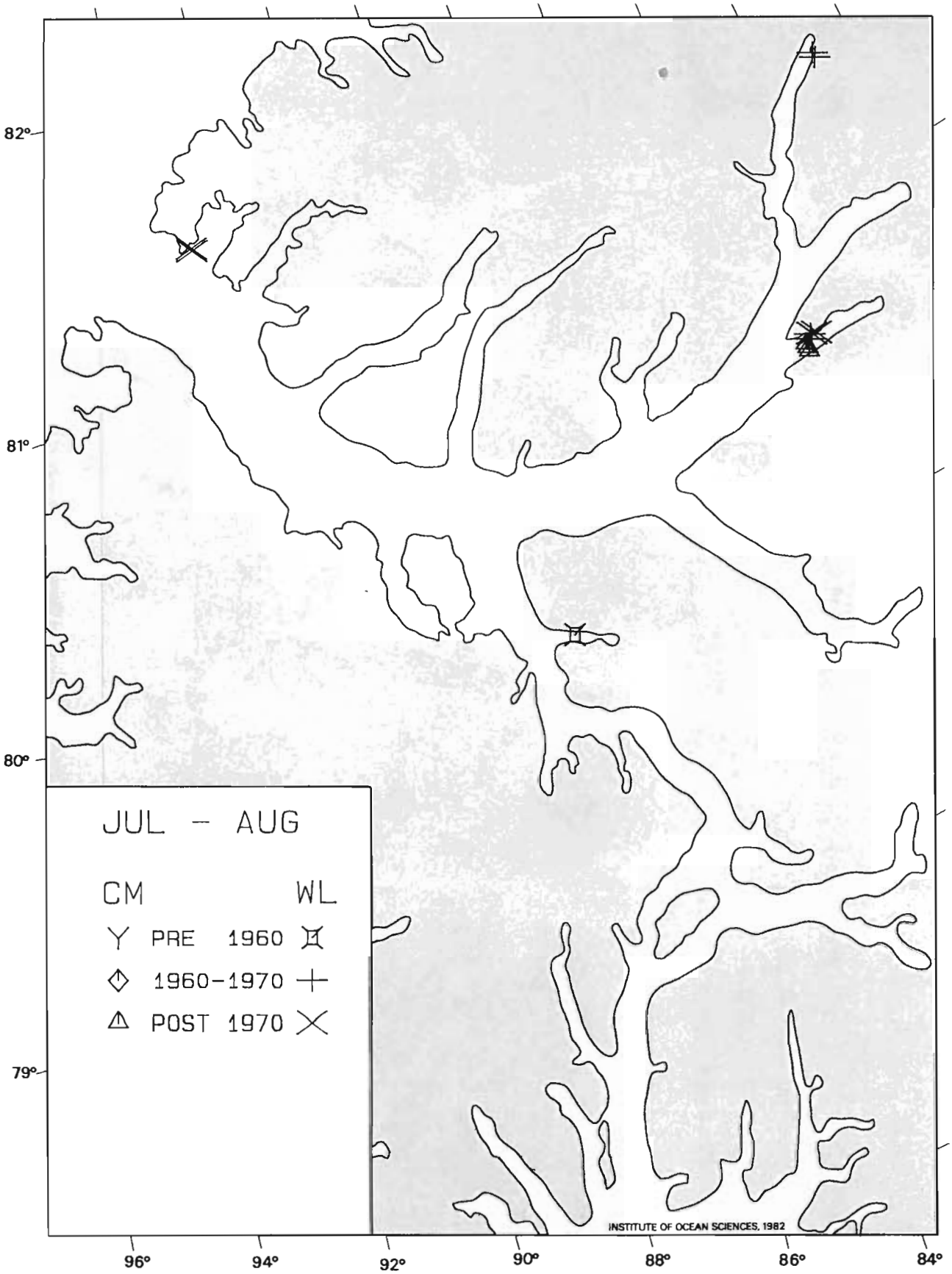

Figure 16b: The locations of all current-meter (CM) and water-level (WL) stations in place during the July-August period, all years, Nansen Sound region (6 CM, 16 WL).

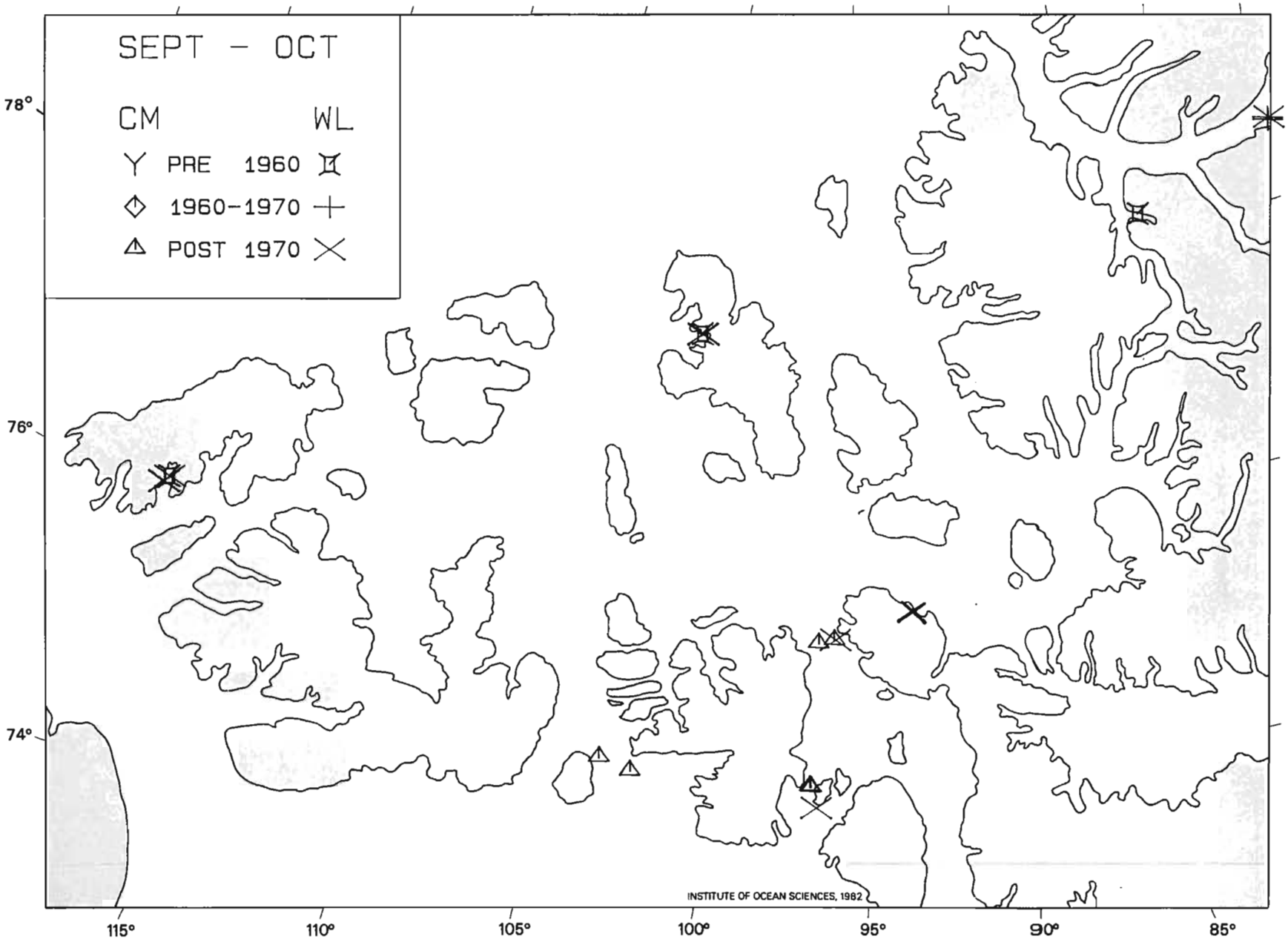

Figure 17a: The locations of all current-meter (CM) and water-level (WL) stations in place during the September-October period, all years (9 CM, 15 WL).

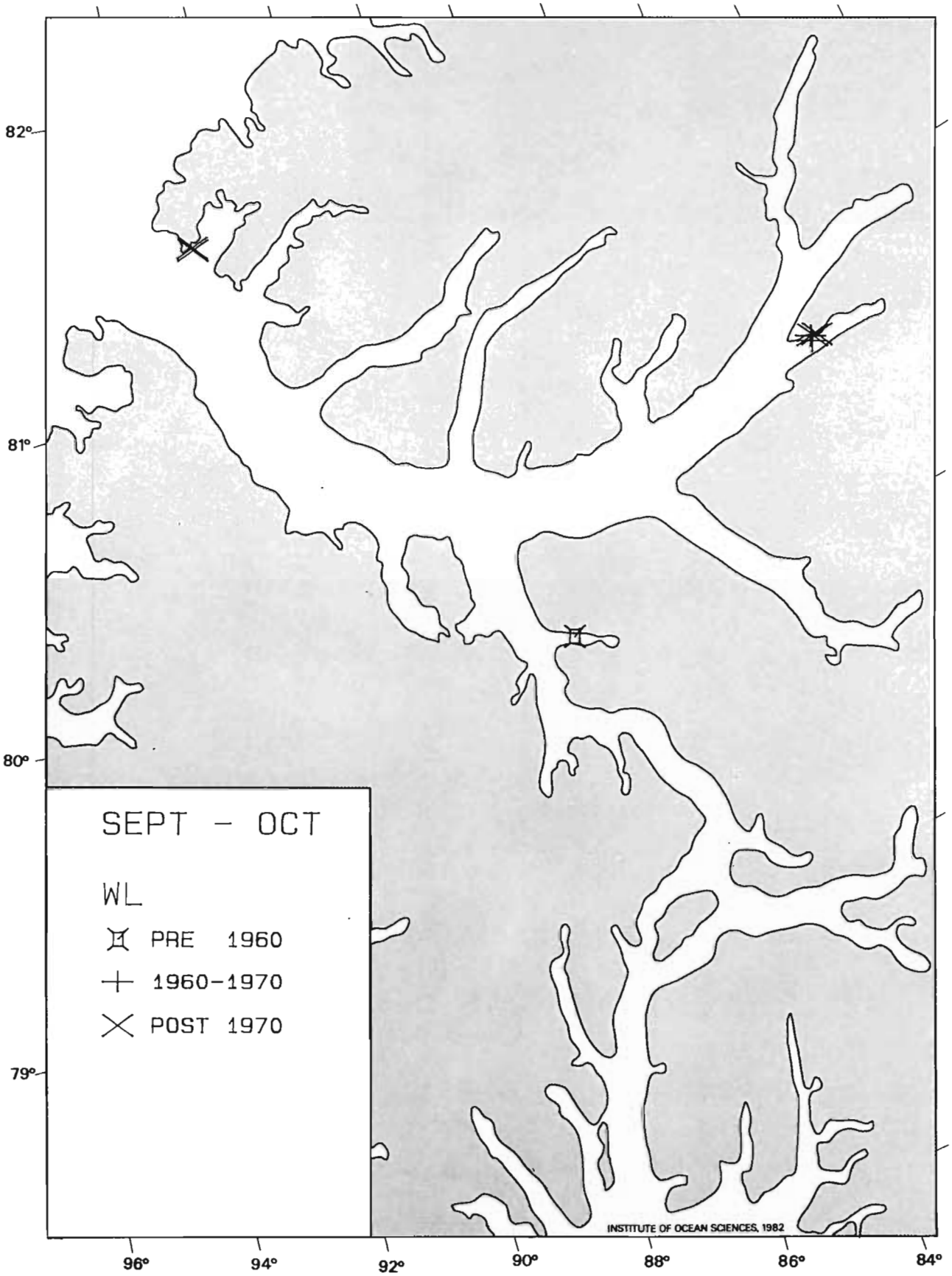

Figure 17b: The locations of all current-meter (CM) and water-level (WL) stations in place during the September-October period, all years, Nansen Sound region (No CM, 10 WL).

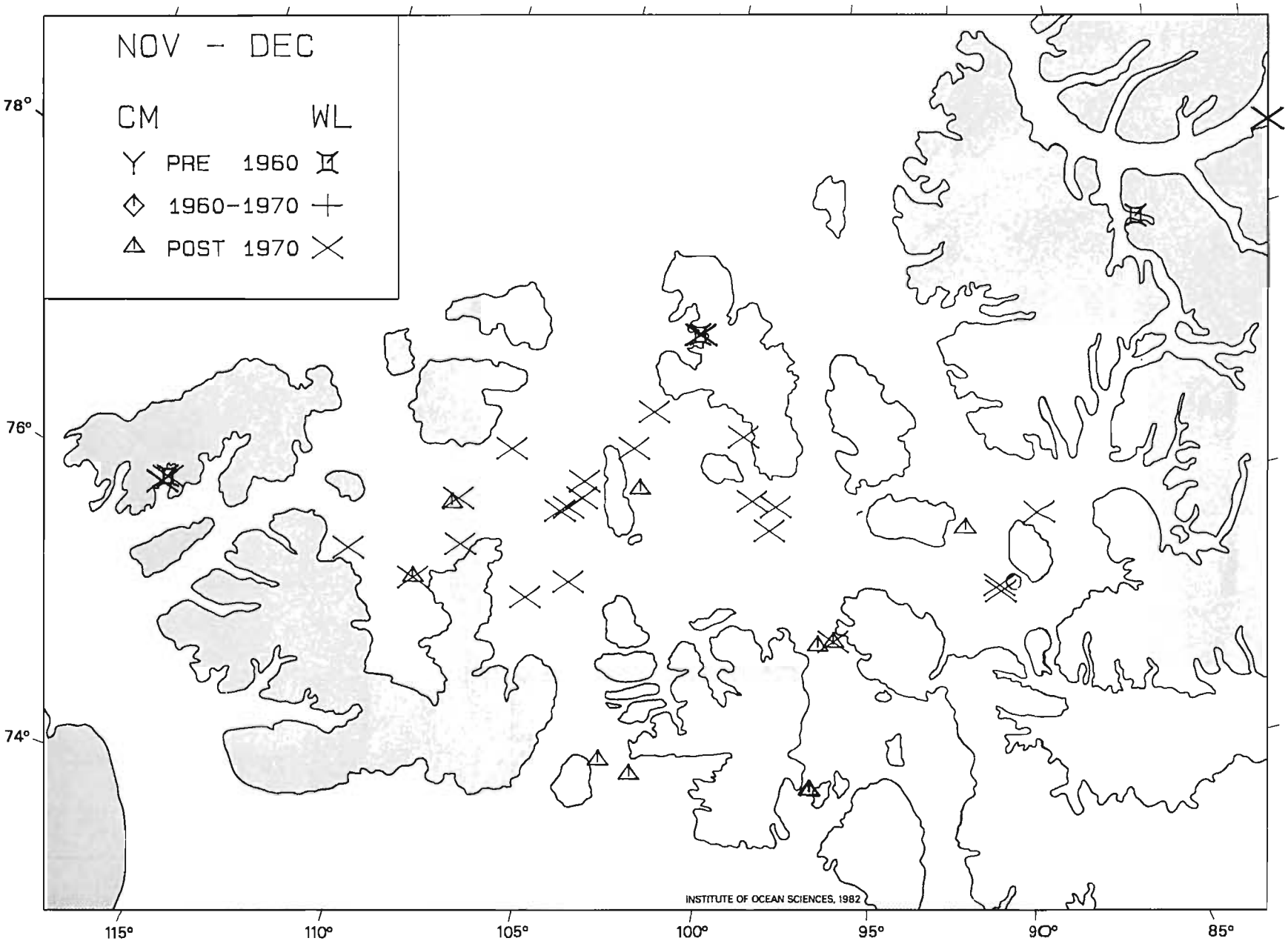

Figure 18a: The locations of all current-meter (CM) and water-level (WL) stations in place during the November-December period, all years (15 CM, 36 WL).

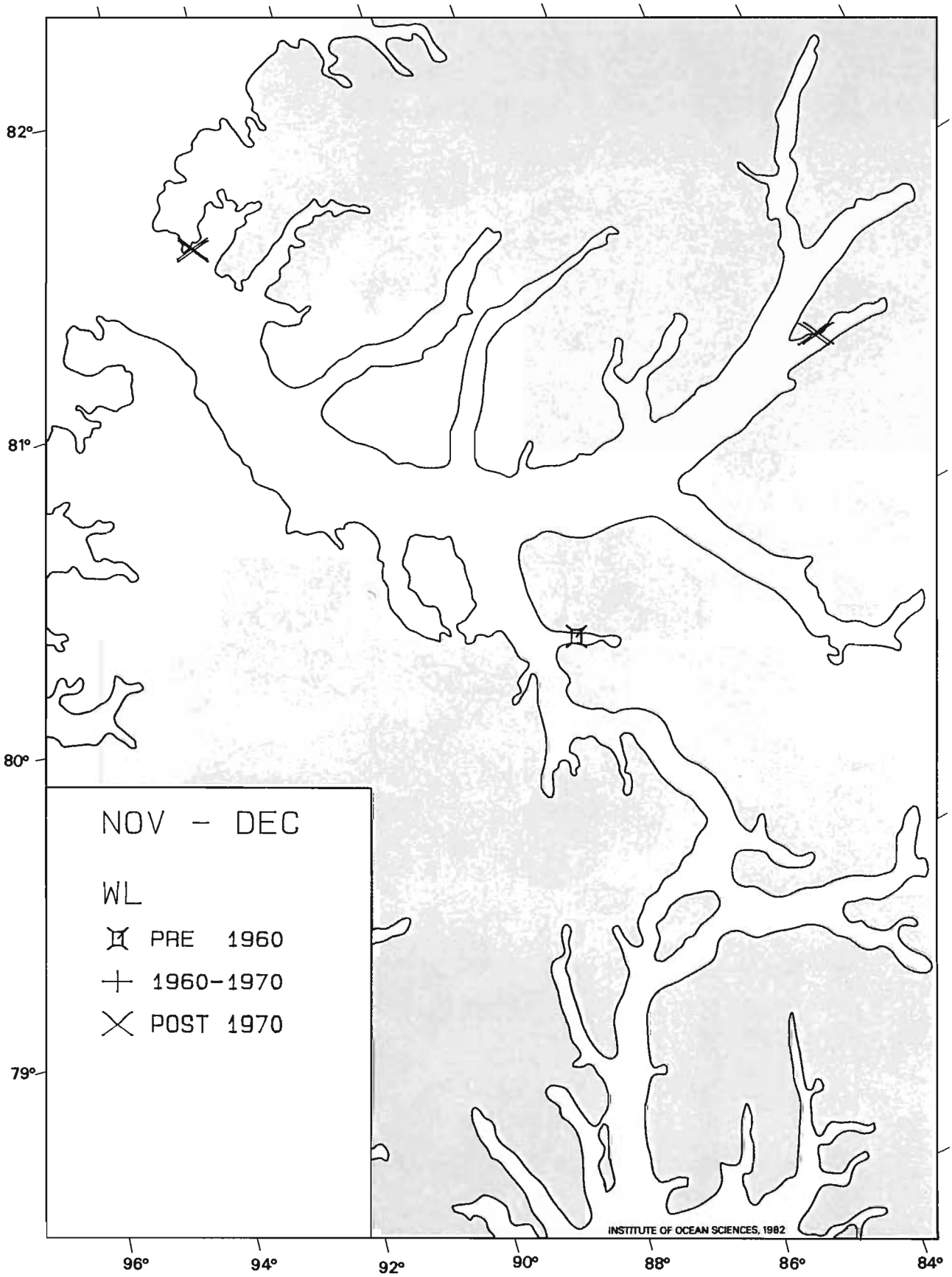

Figure 18b: The locations of all current-meter (CM) and water-level (WL) stations in place during the November-December period, all years, Nansen Sound region (No CM, 8 WL).

The predominance of measurements in the winter and spring months results from the suitability of the ice cover as a stable platform from which to collect data, beginning in the month of December. With the lengthening period of daylight hours in the spring, the months of April and May offer the best conditions for working from the ice. Surface melt begins to hinder operations from the ice commencing in June or July.

6.3 SYNOPTIC DATA SETS AND EXTENDED TIME SERIES

SYNOPTIC DATA SETS

In some years the existence of two or more data sets collected at the same time provides a combined data set with near-synoptic coverage over a relatively large area. Data sets were considered near-synoptic if their measurement periods overlapped significantly. The combined data sets may improve coverage within a given area, extend coverage to a larger area or allow comparison of simultaneous processes in different areas. The table below lists near-synoptic data sets by year and general area of coverage.

Data Set	ID	Area
	1961	
1961-0003		Wellington Channel
1961-0004		Wellington Channel
	1967	
1967-0002		Nansen Sound
1967-0005		Nansen Sound
	1976	
1976-0016		Penny Strait, Belcher Channel
1976-0017		Byam Channel, Austin Channel
	1978	
1978-0007		Byam Martin Channel, McDougall Sound, Wellington Channel
1978-0011		Norwegian Bay, Edingburgh Sea
1978-0012		Wellington Channel, McDougall Sound
1978-0013		Hazen Strait
	1979	
1978-0013		Central Queen Elizabeth Islands (Hazen Strait, W.
1978-0014		Lougheed Island, Desbarats Strait, MacLean Strait)
1979-0017		
1979-0018		
1979-0019		
	1979-80	
1979-0020		Hazen Strait, W. Lougheed Island
1979-0022		Hazen Strait, Edingburgh Sea

Data Set	ID	Area
	1983	
1983-0005		Prince Gustaf Adolf Sea
1983-0008		Byam Martin Channel, Austin Channel

EXTENDED TIME SERIES

Temperature-Salinity

Repeated measurements in the same area may allow long-term trends to be detected and levels of variability to be estimated. Repeated temperature and salinity measurements have been made in several areas. The table below lists the areas in which extended time series are available.

Nansen Sound/ Eureka Sound		Wellington Channel/ Queens Channel	Norwegian Bay/ Belcher Channel	Byam Martin Channel
1948-0001	1967-0005	1957-0003	1952-0003	1954-0001
1952-0003	1969-0014	1960-0005	1961-0003	1961-0003
1961-0003	1969-0015	1961-0003	1962-0006	1962-0006
1962-0005	1970-0017	1962-0006	1967-0002	1964-0004
1962-0006	1971-0015	1967-0002	1968-0001	1976-0017
1963-0010	1973-0013	1968-0001	1976-0016	1977-0016
1964-0008	1974-0025	1973-0008	1978-0011	1978-0007
1965-0005	1975-0039	1973-0006	1983-0005	1979-0019
1966-0010	1976-0018	1978-0012	1984-0059	1982-0003
1967-0002	1977-0019	1981-0007		1983-0008
	1983-0004A	1982-0107		1986-0018
	1983-0077	1983-0005		
	1984-0060	1984-0049A		
	1985-0042	1986-0018		

Water-Level

Repeated water-level measurements have been made at the following sites.

Isachsen	Mould Bay	Audhild Bay	Greely Fiord	Eureka
1949-0001	1951-0007	1982-0131	1969-0015	1954-0010
1954-0010	1982-0131	1983-0077	1970-0017,18	('54-'58)
1959-0004	1983-0077	1984-0060	1972-0023	
1983-0077	1984-0060	1985-0042	1973-0015	
1984-0060	1985-0042		1975-0039	
1985-0042			1976-0018	
			1977-0019	

Current-Meter

There are relatively few cases of repeated current measurements.

Greely Fiord	Byam/Austin Ch.	Wellington Ch.
1974-0025	1974-0134	1978-0012
1975-0039	1976-0017	1984-0049A
	1983-0008	

6.4 CONCLUSIONS

This inventory of physical oceanographic data for the Queen Elizabeth Islands allows oceanographers and others to determine the coverage and quality of data pertaining to their areas of interest. The inventory at present contains 137 data sets which have been collected primarily by the oil industry and government agencies. Much of the data consists of temperature/salinity data collected largely since 1960 and current meter time series data commencing in 1974. A sharp reduction in oceanographic effort occurred in 1985.

Most of the data collection was carried out from March to June using sea-ice as a measurement platform. For only a very limited portion of the study area, in the southeastern channels, have ship-based operations been possible in most summers. There are even fewer data available in the fall and early winter months.

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8. DATA INVENTORY TABLE 1– SUMMARY LISTING OF DATA SETS

Table 1 summarizes the data sets included in this inventory sequentially by data-set number. Water-property, current-meter, and water-level data are fully catalogued. BT data are not catalogued in detail; however their existence has been noted in Table 1, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. Over-the-side current measurements of short duration made with fixed-depth or profiling current meters have not been fully inventoried, but attempts were made to include all such data covering one tidal cycle or more.

Each column of the table contains the following information (Symbols and abbreviations used in each column are explained as well):

Column 1 – Data set I.D.

- contains the data-set identifier number, which is of the form yyyynnnn where yyyy is the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data-set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data-sets exist only in other areas or disciplines. A data-set which appears in two or more areas or disciplines will have the same number in every case.) Data-sets may be sub-divided by the addition of a letter at the end of the number. Sub-divisions have been used when different cruises have been grouped under one I.D. number, or when different programs were conducted on the same cruise. In the case of water-level stations, where data were collected at the same location intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

Column 2 – Ship or collecting agency

- contains the name of the ship (underlined), platform and/or agency.

Column 3 – Dates of measurements

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. NS indicates that dates were not provided in the documentation, or that documentation was unavailable.

Column 4 – Quantity measured

- lists the physical parameters measured in the data set. Measurements identified as "Currents" are Eulerian current measurements (made at a fixed location); "Current drift" refers to Lagrangian measurements. "Current profiles" are spot measurements at certain depths. A quantity followed by a ? means that reference to such a measurement was made but no supporting details were available. NS means the information was not available.

Column 5 - Instruments or methods used

- lists the instruments and methods used to make the measurements. The entries appear opposite the names of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and an assumption was made from standard practice at the time. NS means that the instrument used is unknown.; in such cases no estimates of precision and accuracy are given.

Column 6 - Estimate of data precision and accuracy

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, n_2 where n_1 is the precision and n_2 the accuracy. Where investigator's estimates were not available, the following special symbols and entries have been used:

$[\pm n_1, n_2]$:	standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:	
	BT	[±0.2,0.2C°]
	Reversing thermometer	[±0.02,0.03C°]
	Salinity - Hydrometer	[±0.2,0.2°/oo]
	Salinity - Refractometer	[±0.5,0.5°/oo]
	Salinity - Titration	[±0.02,0.04°/oo]
	Salinity - Bench salinometer	[±0.01,0.02°/oo]
	High Quality CTD	[±0.005,0.01C°] [±0.005,0.02°/oo]
$\pm n_1$ @:	manufacturer's specifications for that instrument.	
$\pm n_1$?:	an estimate has been given which is questionable for reasons detailed in Appendix 1.	

NS indicates no information was available and no reasonable assumption could be made.

Column 7 - Data rating number

- carries the data rating number assigned as explained in Section 5.

Column 8 - Area

- lists the areas in which the majority of the measurements in the data set were taken. (The areas are defined in Figure 1.) If the data were collected at a drilling site, the well name is also indicated in brackets.

Column 9 - Concurrent measurements

- lists known measurements in other disciplines taken as part of the data set. Abbreviations are explained in Appendix 3. Further measurements may have been taken, but not discovered while cataloguing the physical oceanographic data. Therefore the list is not necessarily complete. Unless otherwise specified (as sediment or ice for example), the medium within which the concurrent measurements were obtained is the water column.

Column 10 - Source or reference

- lists a primary source or reference for the data sets. Data sets held in the data banks at the Marine Environmental Data Centre, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified, respectively by the entries MEDS# and NODC# followed by the data bank's identity number. A MEDS number alone does not necessarily mean that the data are not stored at NODC. If MEDS does not have the data then a NODC number is given if they are stored there. Appendix 2 lists addresses and contacts for these sources. Other references and reports are listed in Section 10.3.

TABLE 1: SUMMARY LISTING OF DATA SETS

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1819-0001	HMCS HECLA & HMS GRIPER, PARRY'S FIRST VOYAGE	Aug. 28	Water levels	Temporary nearshore gauge	NS	3	Byam Martin Island		Parry (1821) Harris (1911)
1852-0001	BRITISH VESSELS	Aug. 28-31	Water levels	Temporary nearshore gauge	NS	2	Belcher Channel		Harris (1911)
1853-0001	BRITISH VESSELS	May 27-June 24	Water levels	Temporary nearshore gauge	NS	2	Penny Strait		Anon. (1875) Harris (1911)
1946-0001	USCGC NORTHWIND; U.S. NAVY HYDRO. OFFICE	Sept. 5	Temperature Salinity	Rev. therm., BT Knudsen titration?	[± .02C°,.03C°] [± .2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Wellington Channel	Bottom sediment, plankton, transparency	Metcalf (1949)
1948-0001	USCGC EASTWIND; WOODS HOLE OCEAN. INST. FOR U.S. NAVY HYDRO. OFFICE	Aug. 29	Temperature Salinity	Rev. therm., BT Knudsen titration	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Eureka Sound	Transparency	NODC# 31EW50376 Metcalf (1949)
1949-0001	CANADIAN HYDROGRAPHIC SERVICE	Aug. 1,1949-Aug. 31,1951	Water levels	NS	NS	2	Prince Gustaf Adolf Sea (Isachsen)		WEDS WL-ID 06910
1951-0007	CANADIAN HYDROGRAPHIC SERVICE	July 1,1951-Aug. 31,1952	Water levels	NS	NS	2	Crozier Strait (Mould Bay)		WEDS WL-ID 06955
1952-0003	USS EDISTO; U.S. NAVY HYDRO. OFFICE	Aug. 17-19	Temperature Salinity Water levels	Rev. therm., BT Knudsen titration? Tide staff	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo] NS	3 3 3 3	Norwegian Bay, Eureka Sound, Sildre Fiord	O_2, transparency, vertical plankton tows	WEDS# 180052040 NODC# 31ED50368 USNHO (1954)
1954-0001	HMCS LABRADOR	Aug. 18-25	Temperature Salinity	Rev. therm., BT Knudsen titration	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Wellington Channel, Byam Channel	O_2, plankton hauls, bottom samples, phosphates	WEDS# 180354189 WEDS# 180054040 Bailey (1955, 1957)
1954-0010	CANADIAN HYDROGRAPHIC SERVICE	Jul. 1,1954-Aug. 31,1958	Water levels	NS	NS	2	Eureka Sound, Prince Gustaf Adolf Sea (Isachsen)		WEDS WL-ID 06640,06910
1957-0003	CCGS LABRADOR; MCGILL UNIV., MONTREAL	Aug. 28-Sept. 17	Temperature Salinity	Rev. therm. Knudsen titration?	[±.02C°,.03C°] [±.02°/oo,.04°/oo]	3 3	Wellington Channel, Queens Channel, Penny Strait	O_2, phosphates	WEDS# 180357244 WEDS# 180057040 Collin (1962)
1959-0004	CANADIAN HYDROGRAPHIC SERVICE	Mar. 1-Apr. 30	Water levels	NS	NS	2	Prince Gustaf Adolf Sea (Isachsen)		WEDS WL-ID 06910

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1960-0005	CCGS LABRADOR DEPT. MINES & TECH. SURV., FISH. RES. BD. CAN., & DALHOUSIE U.	Aug. 30	Temperature Salinity	Rev. therm., BT Knudsen titration	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Wellington Channel	Plankton	MEDS# 181060340 MEDS# 180060001 CODC (1964)
1960-0007	POLAR SHELF PROJECT, AIRCRAFT	Apr. 18- May 31	Temperature Salinity	Rev. therm., BT NS	[±.02C°,.03C°] [±.2C°,.2C°] NS	3 3 3	Sverdrup Ch., Peary Ch., Prince Gustaf Adolf Sea, Wilkins Str., Ballantyne Str.	O_2, plankton hauls, sediment cores	MEDS# 181160338 MEDS# 180060048 Collin (1961)
1961-0003	CCGS SIR JOHN A.MACDONALD; DEPT. ENERGY, MINES & RES., MAR. SC. BRANCH	Aug. 24- Sept. 9	Temperature Salinity	Rev. therm., BT Salinometer	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Wellington Ch., Byam Channel, Austin Channel, Norwegian Bay, Queens Channel, Nansen Sd.		MEDS# 180761344 MEDS# 180061003 MEDS# 180061072 CODC (1966a) Barber and Huyer(1971)
1961-0004	CCGS LABRADOR; DEPT. ENERGY, MINES & RES., MAR. SC. BRANCH	Sept. 7	Temperature Salinity	Rev. therm., BT Salinometer	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Wellington Channel	O_2, plankton tows	MEDS# 181061341 MEDS# 180061001 MEDS# 180061072 CODC (1966a)
1961-0005	POLAR SHELF PROJECT,AIRCRAFT	May 8	Temperature Salinity	Rev. therm. NS	[±.02C°,.03C°] NS	2 2	Eureka Sound		MEDS# 180161339
1961-0009	PACIFIC OCEANOGRAPHIC GROUP, ICE CAMP	Apr. 13- May 3	Temperature Salinity Currents	Rev. therm., BT Salinometer E-M Induc.	±.01C°, [.03C°] [±.2C°,.2C°] [±.01°/oo,.02°/oo] NS	3 3 3 3	Prince Gustaf Adolf Sea	O_2, vertical plankton hauls, acoustics	MEDS# 180961763 Herlinveaux (1961)
1962 -0005A	FISH. RES. BD. CAN., ARCTIC UNIT, MONTREAL, LAND BASED	July 17	Temperature Salinity	Rev. therm., BT NS	[±.02C°,.03C°] [±.2C°,.2C°] NS	3 3 2	Penny Strait	Plankton, fish, mammals, chemicals	MEDS# 180462363 MEDS# 180062004 CODC (1963), Hunter&Leach (1983)
1962 -0005B	FISH. RES. BD. CAN., ARCTIC UNIT, MONTREAL, LAND-BASED	July 2- Aug. 16	Temperature Salinity	Rev. therm., BT NS	[±.02C°,.03C°] [±.2C°,.02C°] NS	3 3 3	Nansen Sound, Massey Sound	Plankton, fish, mammals, O_2, chemicals	MEDS# 180462364 MEDS# 180062004 CODC (1963), Hunter&Leach (1983)
1962-0006	CCGS SIR JOHN A.MACDONALD DEPT. MINES & TECH. SURV., MAR. SC. BR.	Aug. 7-31	Temperature Salinity	Rev. therm., BT Salinometer	±.02C°, [.03C°] [±.2C°,.2C°] ±.004°/oo,[.02°/oo]	3 3 3	Wellington Ch., Norwegian Bay, Penny Strait, Austin Channel, Belcher Ch., Eureka Sd., Greely Fd., Kellet Str., Nansen Sd.	O_2, vertical plankton hauls	MEDS# 181062359 MEDS# 180062086 Barber and Huyer(1971) CODC (1966b)

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1962-0013	CANADIAN HYDROGRAPHIC SERVICE	July 1-31	Water levels	NS	NS	2	Queens Channel		MEDS WL-ID 06765
1963-0010	DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE	May 26-Aug. 18	Temperature Salinity Water Level	Rev. therm., BT Titration Staff	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo] NS	3 3 3 2	Nansen Sound	Botany, glaciology	MEDS# 180763001 CODC (1969) Ford&Hattersley-Smith (1965) Hattersley-Smith(1964)
1964-0004	CCGS SIR JOHN A. MACDONALD	Aug. 28-Sept. 3	Temperature Salinity	Rev. therm. NS	[±.02C°,.03C°] NS	2 2	Byam Channel		MEDS# 180764008
1964-0005	PACIFIC OCEANOGRAPHIC GROUP, ICEPACK V	Feb. 3-19	Temperature Salinity	Rev. therm., BT Salinometer	[±.02C°,.03C°] [±.2C°,.2C°] [±.01°/oo,.02°/oo]	3 3 3	Prince Gustaf Adolf Sea	Vertical plankton hauls, acoustics, O_2	Herlinveaux (1965)
1964-0008	DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE	May 8-Aug. 25	Temperature Salinity Water levels	Rev. therm., BT Titration Foxboro	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo] NS	3 3 3 2	Nansen Sound	O_2, vertical plankton hauls, botany, glaciology, ice physics	MEDS# 180764001 MEDS WL-ID 06680 CODC (1969) Ford&Hattersley-Smith (1965) Hattersley-Smith(1967)
1965-0005	DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE	May 11-Aug. 16	Temperature Salinity	Rev. therm., BT Titration	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Nansen Sound, Eureka Sound		MEDS# 180765001 CODC (1969)
1966-0010	DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE	May 1-July 18	Temperature Salinity	Rev. therm., BT Titration	[±.02C°,.03C°] [±.2C°,.2C°] [±.02°/oo,.04°/oo]	3 3 3	Nansen Sound		MEDS# 180766001 CODC (1969)
1967-0002	CCGS LABRADOR; PACIFIC OCEANOGRAPHIC GROUP	Aug. 22-Sept. 9	Temperature Salinity Currents	Rev. therm., CTD, BT Salinometer, CTD Hydroproducts	[±0.02C°,.03C°] NS [±.2C°,.2C°] [±.01°/oo,.02°/oo] NS NS,[±.02m/s] (speed) NS,[±10] (direction)	3 1 3 3 1 3 3	Wellington Channel, Norweglan Bay, Eureka Sound, Nansen Sound	Sediment cores, deuterium	MEDS# 180267013 CODC (1968) Herlinveaux (1974) Redfield and Friedman (1969)
1967-0005	DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE	Apr. 19-Aug. 20	Temperature Salinity	Rev. therm., BT NS	[±.02C°,.03C°] [±.2C°,.2C°] NS	3 3 2	Nansen Sound, Eureka Sound		MEDS# 180767002

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1968-0001	CCGS LABRADOR; FISH. RES. BD., ICEPACK 8/68	Aug. 18-Sept. 16	Temperature Salinity	Rev. therm., BT Salinometer	[±.02C°,.03C°] [±.2C°,.2C°] [±.01°/oo,.02°/oo]	3 3 3	Wellington Channel, Norwegian Bay	O_2, flora & fauna observations from submersible, beach walks	MEDS# 180268013 Herlinveaux (1970)
1968-0008	CANADIAN HYDROGRAPHIC SERVICE	May 1-Sept. 30	Water levels	NS	NS	2	Nansen Sound, McDougall Sound, Byam Channel		ID 06660/06680/06757 06833/06834 MEDS file C81173B01
1968-0015	DEFENSE RESEARCH ESTABLISHMENT OTTAWA	May 11 - June 15	Temperature Salinity Currents	NS NS Ekman	NS NS NS	2 2 2	Mouth of Nansen Sound	Ice physics, benthos, met.	MEDS# 180968001 Hattersley-Smith(1969)
1969-0014	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Mar.? - Apr.?	Temperature Salinity	Guildline 8101 CTD Thermistors Guildline CTD	[±.01C°],.02C° NS,±.01C° [±.01°/oo],.04°/oo	1 1 1	Nansen Sound, d'Iberville Fiord		Lake and Walker (1973)
1969-0015	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Aug. 12-Sept. 19	Temperature Salinity Currents Water levels	Thermistors NS Dye Ottboro recorder	NS,±.01C° [±.01°/oo,.02°/oo] NS NS	2 2 2 2	Nansen Sound, d'Iberville Fiord		MEDS# 180696670 Lake and Walker (1973) MEDS ID 06670
1969-0016	CANADIAN HYDROGRAPHIC SERVICE	Aug. 1-31	Water levels	NS	NS	2	Byam Channel		MEDS WL-ID 06835
1970-0017	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Mar. 12-Apr. 7	Temperature Salinity Water levels	Guildline CTD, Thermistors Guildline CTD Ottboro recorder	[±.01C°],.02C° NS,±.01C° [±.01°/oo],.04°/oo NS	2 2 2 2	Nansen Sound, d'Iberville Fiord		Lake and Walker (1973)
1970-0018	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Aug. 15-Oct. 4	Temperature Salinity Water levels	Thermistor chains Salinometer Ottboro recorder	NS,±.01C° [±.01°/oo,.02°/oo] NS	2 2 2	Nansen Sound, d'Iberville Fiord		Lake and Walker (1973)
1971-0015	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Mar. 17-31	Temperature Salinity	Guildline CTD Guildline CTD	[±.01C°],.02C° [±.01°/oo],.04°/oo	2 2	Nansen Sound, d'Iberville Fiord		Lake and Walker (1973)
1972-0011	CCGS LOUIS ST. LAURENT, FISH. & MARINE SER., PAC. REGION	Sept. 28	Temperature Salinity	Rev. therm., BT Salinometer	[±.02C°,.03C°] [±.2C°,.2C°] [±.01°/oo,.02°/oo]	3 3 3	Wellington Channel	Transparency, plankton, O_2, SiO_3, PO_4, NO_3, NO_2, bottom grab samples	Herlinveaux and Wilson (1974)

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Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1972-0023	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Aug. 20 Aug. 22, 1972 - Aug. 16, 1975	Temperature Water levels	Thermistor Chains FSRG gauge	NS, ±.01C° ±0.004 m, 0.02 m	2 3	Nansen Sound, d'Iberville Fiord		Frozen Sea Research Group, Institute of Ocean Sciences
1973-0006	INSTITUTE OF OCEAN SCIENCES, ICE CAMP	Apr. 23	Temperature Salinity Currents	Gidl. 8101/8202 Gidl. 8101/8202 Aanderaa RCM-4	±.01C°, .03C° ±.01°/oo, .04°/oo NS	3 3 2	Wellington Channel	Silicate, nitrate, phosphate	Herlinveaux et al. (1978)
1973-0007	CANADIAN HYDROGRAPHIC SERVICE	Apr. 1-Sept. 30	Water levels	NS	NS	2	Norwegian Bay (Surprise Fiord)		MEDS file C81173801 ID 06600
1973-0008	SIR WILLIAM ALEXANDER; INSTITUTE OF OCEAN SCIENCES	Aug. 28	Temperature Salinity Currents	Gidl. 8101/8202 Gidl. 8101/8202 Hydro Products	±.01C°, .04C° ±.01°/oo, .1°/oo NS	3 3 2	Wellington Channel	Silicate, nitrate, phosphate	Herlinveaux, Fissel & Wilson (in preparation)
1973-0013	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	Mar. 31-Apr. 21	Temperature Salinity Water levels	Guildline 8101A Guildline 8101A FSRG gauge	±.001C°, .01C° ±.001°/oo, .02°/oo ±.004 m, .02 m	4 4 3	Nansen Sound, d'Iberville Fiord	O_2	Frozen Sea Research Group (1973) Lewis & Sudar (1972)
1973-0015	FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP	June 1, 1973-June 19, 1974	Water levels Temperature	FSRG gauge Thermistor	±.004 m, .02 m [NS, ±.01C°]	3 3	Nansen Sound, d'Iberville Fiord	River runoff	Lake and Walker (1976)
1974-0014A	MARINE SCIENCES MCGILL, ICECAMP, FOR POLAR GAS PROJECT	May 14	Temperature Salinity	Rev. therm. Refractometer	[±.02C°, .03C°] [±.25°/oo, .5°/oo]	3 3	Austin Chan.	Plankton, benthos, Chl.a SiO_3, PO_4, NO_2, NO_3 ice cores	Thomson, Woods & Acreman (1975)
1974-0018	BEAK CONSULTANTS FOR PANARCTIC OILS, LAND-BASED CAMP	June 22-July 8	Temperature Salinity Currents	NS NS NS	NS NS NS	2 2 2	Edingburgh Sea, Maclean Strait		Beak Consultants Ltd. (1974)
1974-0025	FROZEN SEA RESEARCH GROUP, TRACKED VEHICLE & SMALL VESSEL	Mar. 30-Aug. 25	Temperature Salinity Currents	Guildline 8101A Aanderaa Guildline 8101A Aanderaa RCM	±.001C°, .01-.05C° NS, ±.15C° ±.001, .005-.05°/oo NS, [±.01 m/s] (speed) NS (direction)	4 3 4 1 1	Nansen Sound, d'Iberville Fiord		Frozen Sea Research Group (1975) Lake and Walker (1976)
		Mar. 28, 1974-June 19, 1975	Water levels	FSRG gauge	±.004 m, .02 m	3			

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1974-0118	PLURITEC CONSULTANT LTD.	Aug. 14	Temperature Salinity	YSI Model 33 YSI Model 33	NS NS	3 3	Danish Strait (Jackson Bay)	O_2, ph, colour turbidity, birds plankton, mammals transparency.	Pluritech Consult. Ltd. (1975)
1974-0121	DOBROCKY SEATECH LTD. FOR B. C. RESEARCH	Aug. 17-22	Temperature Salinity	NS NS	NS NS	2 2	Crozier Strait (Cominco Bay)	O_2, pH, As, Cd Cu, Fe, Pb, Zn, sediment, fish, benthos, birds, mammals, plankton	Dobrocky (1975)
1974-0134	R.J. BROWN & ASSOC. FOR POLAR GAS PROJ.	Apr. 23 Mar. 31- Apr. 20	Salinity Currents	NS NS	NS NS	0 0	Byam Channel	Sediment	Unpub. Data (Polar Gas Project), avail. from IOS
1975-0016	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	June 1- July 20	Temperature Salinity Currents	Aanderaa RCM, Interocean CTD Aanderaa RCM, Interocean CTD Aanderaa RCM-4	[± .02C°,.15C°] [± .02C°],NS [± .1 °/oo],NS [± .02 °/oo],NS NS, [±.01 m/s](speed) NS (Direction)	1 1 1 1 1 1	Hazen Strait, Fitzwilliam Str., Hecla and Griper Bay		Beak Consult. (1976a)
1975-0017	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Mar. 3- June 17	Temperature Salinity Currents Water levels	NS NS Aanderaa RCM-4 NS	NS NS NS, [±.01 m/s](speed) NS (Direction) NS	2 2 1 1 2	E. Sabine Pen. (Drake I-55)		Beak Consult. (1976b)
1975-0018	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Jan. 30- July 6	Temperature Salinity Currents	Aanderaa RCM-4 Interocean CTD Interocean CTD Aanderaa RCM-4	[± .02C°,.15C°] [±.02C°],NS [±.02°/oo],NS NS, [±.01m/s](speed) NS (direction)	1 1 1 1 1	MacLean Strait, Desbarats Strait, Hazen Strait		Beak Consult. (1976c)
1975-0019	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Mar 2- Apr. 12	Temperature Salinity Currents	Beckman RS5-3 Beckman RS5-3 Cushing	NS, [±.5C°] NS, [±.3°/oo] NS	2 2 1	East Sabine Peninsula		Beak Consult. (1975b)
1975-0020	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Nov.23,1975- Feb.29,1976	Currents Temperature Salinity Water levels	Aanderaa RCM Aanderaa RCM Aanderaa RCM Steven	NS, [±.01 m/s](speed) NS (direction) NS,[±.15C°] [±.1°/oo],NS NS	1 1 1 1 1	Hecla and Griper Bay (Hecla P-62)		Beak Consult. (1976d)
1975-0021	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Dec.13,1975- Apr.21,1976	Currents Temperature Salinity Water levels	Cushing, Aanderaa RCM Aanderaa Aanderaa Steven	NS NS, [±.01 m/s](speed) NS (direction) NS, [±.15C°] [±.1°/oo], NS NS	1 1 1 1 1 1	Maclean Strait, Danish Strait (Jackson G-16)		Beak Consult. (1976e)

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1975-0022	INNOVATIVE VENTURES FOR PANARCTIC OILS LTD.	Dec.4,1975-May 29,1976	Currents Temperature Salinity	Cushing Aanderaa RCM Aanderaa RCM	NS [±.02C°,.15C°] [±.1°/oo],NS	1 2 2	Hazen Strait, MacLean Strait, Prince Gustaf Adolf Sea	Ice motion	Innovative Ventures (1976)
1975-0023	BEAK CONSULANTS FOR PANARCTIC OILS LTD.	July 10-16	Temperature Salinity	Beckman RS5-3 Beckman RS5-3	NS,[±.5C°] NS,[±.3°/oo]	1 1	Danish Strait, MacLean Strait		Beak Consult. (1975a)
1975-0039	FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES,LAND-BASED CAMP	Mar. 28-June 12	Temperature Salinity Currents Current profiles Water levels	Aanderaa RCM, Guildline 8101A Guildline 8101A Aanderaa RCM Ultrasonic C.M. FSRG gauge	NS, [±.15C°] ±.001C°,.005-.1C° ±.001°/oo,.01-.02°/oo NS, [±.01 m/s](speed) NS (direction) NS,±.25 (speed) NS,±10 (direction) ±.004m, .02m	3 4 4 3 3 3 3 3	Nansen Sound, d'Iberville Fiord	O_2	Frozen Sea Research Group (1976a) Lake and Walker (1976)
1975-0040	CANADIAN HYDROGRAPHIC SERVICE	Aug.1,1975-Aug.31,1976	Water levels	NS	NS	2	Byam Channel		MEDS WL-ID 06835
1975-0138	FROZEN SEA RESEARCH GROUP, INST. OF OCEAN SCIENCES	June 13	Temperature Conductivity	NS NS	NS NS	2 2	Greely Fiord	Atmospheric observations, stream flow	R.A. Lake, IOS (pers. comm.)
1976-0010	LGL LTD. FOR POLAR GAS PROJ.	June	Temperature Salinity	Rev. Therm. Refractometer or Salinometer	±[.02],.05C° ±[.5],.5°/oo [±.01,.02°/oo	3 3 3	Wellington Channel	NO_3,P,SiO_3, Chl.A,benthos, plankton,fish	Thomson, Martin & Cross (1986)
1976-0014	BEAK CONSULTANTS FOR PANARCTIC OILS LTD.	Jan. 15-Apr. 17	Currents Temperature Salinity Water levels	Aanderaa RCM Aanderaa RCM Aanderaa RCM Steven	NS, [±.01 m/s](speed) NS (direction) [±0.02C°,0.15C°] [±0.1°/oo],NS NS	0 0 1 1 2	Hecla and Griper Bay (Hecla M-25)		Beak Consult. (1976f)
1976-0015	INNOVATIVE VENTURES FOR PANARCTIC OILS LTD.	May 15-June 16	Currents Temperature Salinity	Aanderaa RCM Aanderaa RCM Aanderaa RCM	NS, [±.01 m/s](speed) NS (direction) [±0.02,0.15C°] [±0.1°/oo],NS	1 1 2 2	Arnot Strait, Erskine Inlet		Innovative Ventures (1976)
1976-0016	DEPT. FISHERIES AND ENV., C.C.I.W.	Mar. 16-May 7	Currents Temperature Salinity Water levels	Marsh-McBirney, Endeco E.M. Aanderaa RCM Aanderaa RCM Aanderaa WLR	NS, [±.01 m/s](speed) NS,[±2] (speed) NS,[±.05C°] NS,[±.15°/oo] NS	3 3 3 3 3	Penny Strait, Belcher Channel		Peck (1977)

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Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1976-0017	DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES	Apr.20,1976-Aug.11,1977	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	3	Byam Channel, Austin Channel		Greisman & Lake (1978) Frozen Sea Research Group (1976b)
					NS,±5-7 (direction)	3			
			Temperature	Guildline 8101A	±.002C°,.01C°	4			
			Salinity	Guildline 8101A	±.004°/oo,.02°/oo	4			
			Temperature	Aanderaa RCM	[±0.02,0.15C°]	3			
			Salinity	Aanderaa RCM	[±0.1°/oo],NS	3			
1976-0018	DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES	Mar. 8-31	Temperature	Guildline 8101A	±.002C°,.005-.01C°	3	d'Iberville Fiord, Greely Fiord, Nansen Sound	O_2	Frozen Sea Research Group (1976)
			Salinity	Guildline 8101A	±.004°/oo,.02°/oo	3			
			Water levels	FSRG gauge	±.004 m, .02 m	3			
1976-0019	PANARCTIC OILS LTD.	Dec.21,1976-Mar. 2,1977	Water levels	NS	NS	2	East Sabine Peninsula (Drake P-40)		Van Ieperen (1981)
1977-0016	LGL LTD. FOR PETRO-CANADA	August	Temperature	Rev. therm.	±[.02],.05C°	3	Austin Ch., McDougall Sd.	O_2,NO_3, Chl.A,plankton, NO_2,PO_4,SiO_3, benthos,fish	Thomson, Martin & Cross (1986)
			Salinity	Refractometer or Salinometer	±[.5],.5°/oo	3			
					[±.01,.02°/oo]	3			
1977-0019	DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES, TRACKED VEHICLES	Mar. 4-27	Temperature	Guildline 8101A	±.002C°,.005C°	4	d'Iberville Fiord	Nutrients,O_2, deuterium, tritium	Frozen Sea Research Group (1977a)
			Salinity	Guildline 8101A	±.004°/oo,.01°/oo	4			
			Water levels	Aanderaa WLR	NS	2			
1977-0022	INNOVATIVE VENTURES LTD. FOR PANARCTIC OILS LTD.	Mar. 24-May 1	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	3	Hecla and Griper Bay (Hecla C-58)		Innovative Ventures (1977a)
					NS (direction)	3			
			Temperature	Aanderaa RCM	[±.02C°,.15C°]	3			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	3			
		Feb. 23-Apr. 26	Water levels	NS	NS	2			
1977-0023	INNOVATIVE VENTURES LTD. FOR PANARCTIC OILS LTD.	Mar. 2 - July 1	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	2	Hazen Strait, MacLean Strait		Innovative Ventures Ltd.(1977b)
					NS (direction)	2			
			Temperature	Aanderaa RCM	[±.02,.15C]°	2			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	2			
1977-0024	PANARCTIC OILS LTD.	Dec.19,1977-Apr.17, 1978	Water levels	Steven	NS	1	Hecla and Griper Bay (C. Grassy I-34)		Panarctic Oils Ltd. (1978a)
			Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1			
			Temperature	Guildline 8705	NS	3			
			Salinity	Guildline 8705	NS	3			
			Temperature	Aanderaa RCM	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	2			

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Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1977-0025	PANARCTIC OILS LTD.	Nov.5,1977-Apr.17,1978	Water levels	Steven	NS	1	Hazen Strait (Roche G-43)		Panarctic Oils Ltd. (1978b)
			Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1			
					NS, (direction)	1			
			Temperature	Guildline 8705	NS	3			
			Salinity	Guildline 8705	NS	3			
			Temperature	Aanderaa RCM	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	2			
1977-0026	DEPT. OF FISH. & ENV., FROZEN SEA. RES., INSTITUTE OF OCEAN SCIENCES, TRACKED VEHICLE	Mar.25,1977-Mar.22,1978	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	3	Crozier Strait, Pullen Strait		Frozen Sea Research Group (1977b) Greisman & Lake (1978)
					NS (direction)	3			
			Temperature	Guildline 8101A	±.002C°,.005C°	4			
			Temperature	Aanderaa RCM	[±.02,.15C°]	3			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	3			
			Salinity	Guildline 8101A	±.004°/oo,.01°/oo	4			
			Water levels	Aanderaa WLR-4	[±.002 m, .02 m]	3			
1977-0033	PETRO-CANADA	Nov.28,1977-July 18,1978	Currents	Aanderaa RCM-4	NS, [±.01 m/s](speed)	0	Maclean Str., Hazen Str., Edingburgh Sea, Prince Gustaf Adolf Sea, West Lougheed Island	Ice motions, wind speed & direction, air temperature	Fissel (1982)
					NS (direction)	0			
1977-0119	B.C. RESEARCH FOR COMINCO LTD.	Aug.26-28	Temperature	NS	NS	2	McDougall Sd.	O_2, pH, metal, nutrients, turbidity, plankton, benthos, sediment	B.C. Research (1978)
			Salinity	NS	NS	2			
1978-0007	DEPT. OF FISH. & ENV., CENTRAL REGION (C.C.I.W.)	Mar. 15-Apr. 26	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	3	Byam Channel, Austin Channel, McDougall Sound		Prinsenberg (1978) Peck (1980a)
					NS (direction)	3			
			Temperature	Guildline 8706	[±.0005C°],.01C°	4			
			Salinity	Guildline 8706	[±.001°/oo],.01°/oo	4			
			Temperature	Aanderaa RCM	[±.02,.15C°]	3			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	3			
1978-0010	PANARCTIC OILS LTD.	Jan. 21-Apr. 29	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1	East Sabine Peninsula		Van Ieperen (1981)
					NS (direction)	1			
			Water levels	NS	NS	2			
			Temperature	Aanderaa RCM	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	2			
1978-0011	PANARCTIC OILS LTD.	Jan. 23-June 24	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1	Edingburgh Sea, Norwegian Bay		Panarctic Oils Ltd. (1979d)
					NS (direction)	1			
			Temperature	Aanderaa RCM	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	2			

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1978-0012	DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES	Mar. 19-July 9	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	3	Wellington Channel, Crozier Strait, Pullen Strait		Frozen Sea Research Group (1981)
					NS (direction)	3			
			Temperature	Guildline 8101A	±.002C°,.005C°	4			
			Salinity	Guildline 8101A	±.004°/oo,.01°/oo	4			
			Temperature	Aanderaa RCM	[±.02,.15C°]	3			
			Salinity	Aanderaa RCM	[±.1°/oo],NS	3			
1978-0013	PANARCTIC OILS LTD.	Dec.3, 1978-May 3, 1979	Currents	Aanderaa RCM-4	NS, [±.01 m/s](speed)	1	Hazen Strait (Hazen F-54)		Panarctic Oils Ltd. (1979a)
					NS (direction)	1			
			Temperature	Guildline 8705	[±.0005C°,.005C°]	3			
			Salinity	Guildline 8705	[±.001°/oo,.005°/oo]	3			
			Temperature	Aanderaa RCM-4	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM-4	[±.1°/oo],NS	2			
			Water levels	Steven	NS	1			
1978-0014	PANARCTIC OILS LTD.	Dec.19,1978-Apr.6,1979	Currents	Aanderaa RCM	NS,[±.01 m/s](speed)	3	Desbarats Strait (Desbarats B-73)		Panarctic Oils Ltd. (1979b) Strandberg (1979)
					NS (direction)	3			
			Temperature	Guildline 8705	[±.005C°,.005C°]	3			
			Salinity	Guildline 8705	[±.001°/oo,.005°/oo]	3			
			Temperature	Aanderaa RCM-4	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM-4	[±.1°/oo],NS	2			
			Water levels	Steven 2A-35	NS	2			
1978-0016	PANARCTIC OILS LTD.	Jan. 21-Apr. 29	Water levels	NS	NS	2	E. Sabine Pen. (Drake F-78)		Van Ieperen (1981) Masterson & Strandberg (1978)
1979-0017	PETRO-CANADA	Jan. 25-June 22	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1	Maclean Str., Hazen Str., Edingburgh Sea, Prince Gustaf Adolf Sea, West Lougheed Island	Ice motion, wind speed & direction, air temperature	Fissel (1982)
					NS (direction)	1			
1979-0018	PANARCTIC OILS LTD.	Jan. 9-May 9	Currents	Aanderaa RCM	NS, [±.01 m/s](speed)	1	West Lougheed Island (Whitefish H-63)		Panarctic Oils Ltd. (1979c) Masterson & Strandberg (1979)
					NS (direction)	1			
			Temperature	Guildline 8705	[±.0005C°,.005C°]	3			
			Salinity	Guildline 8705	[±.001°/oo,.005°/oo]	3			
			Temperature	Aanderaa RCM-4	[±.02,.15C°]	2			
			Salinity	Aanderaa RCM-4	[±.1°/oo],NS	2			
			Water levels	Steven,	NS	1			
				Aanderaa WLR-5	NS	2			
1979-0019	DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.)	Apr. 3-May 9	Currents	Aanderaa RCM-4	NS, [±.01 m/s](speed)	3	Byam Martin Channel, Hazen Strait, Wilkins Strait, Desbarats Strait		Peck (1980a,b)
					NS (direction)	3			
			Temperature	Guildline 8706	[±.0005C°],.01C°	4			
			Salinity	Guildline 8706	[±.001°/oo,],.01°/oo	4			
			Temperature	Aanderaa RCM-4	[±.02,.15C°]	3			
			Salinity	Aanderaa RCM-4	[±.1°/oo],NS	3			

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1979-0020	PANARCTIC OILS LTD.	Nov.11,1979- May 13,1980	Currents Temperature Salinity Temperature Salinity Water levels	Aanderaa RCM Aanderaa RCM Aanderaa RCM Guildline 8705 Guildline 8705 Steven	NS, [±.01 m/s](speed) NS (direction) [±.02,.15C°] [±.1°/oo],NS [±.0005C°,.005C°] [±.001°/oo,.005°/oo] NS	3 3 2 2 1 1 3	Hazen Strait, West Lougheed Island (Whitefish H-63A)		Panarctic Oils Ltd. (1980a) Strandberg & Hall (1980)
1979-0021	CANADIAN HYDROGRAPHIC SERVICE	Mar. 1- Apr. 23	Water levels	Aanderaa WLR-5 or AML TG-12A	[±.002m, .02 m]	3	Hazen Strait, MacLean Strait, Edingburgh Sea, Penny Strait, Belcher Chan., Wellington Chan.		Sandilands, Solvason & St. Jacques (1985)
1979-0022	PANARCTIC OILS LTD.	Dec.5,1979- Apr.27,1980	Currents Temperature Salinity Temperature Salinity Water levels	Aanderaa RCM Guildline 8705 Guildline 8705 Aanderaa RCM Aanderaa RCM Stephen, Aanderaa WLR	NS, [±.01 m/s](speed) NS (direction) [±.0005C°,.005C°] [±.001°/oo,.005°/oo] [±.02,.15C°] [±.1°/oo],NS NS NS	1 1 1 1 2 2 2 2	Hazen Strait, Edingburgh Sea (Char G-07) (Balaena D-58)		Panarctic Oils Ltd. (1980b) Van Ieperen (1981)
1980-0013	DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES, FROZEN SEA RESEARCH GROUP	Mar. 8- Apr. 12	Currents Temperature Salinity	Aanderaa RCM-4 Aanderaa RCM-4 Aanderaa RCM-4	NS, [±.02 m/s](speed) NS (direction) NS NS	3 3 3 3	Dundas Island	Meteorological and turbulent atmospheric fluxes	Topham et al. (1983)
1980-0014	DOBROCKY SEATECH LTD. FOR POLAR GAS	Apr. 10- May 1	Currents Water levels Temperature Salinity	Aanderaa RCM-4 Aanderaa WLR5A Aanderaa RCM Aanderaa RCM	NS, [±.01 m/s](speed) NS (direction) [±.002m, .02 m] [±.02,.15C°] [±.1°/oo],NS	3 3 3 3 3	West Lougheed Island		Juhasz (1980)
1980-0015	CANADIAN HYDROGRAPHIC SERVICE	Mar. 24- Apr. 26	Water levels	Aanderaa WLR-5	[±.002m, .02 m]	3	Queens Channel, Wellington Channel		Canadian Hydrographic Service
1981-0007	DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.)	Apr.19 - 25	Temperature Salinity	Guildline 8706 Guildline 8706	[±.0005C°],.005C° [±.001°/oo],.01°/oo	4 4	Wellington Channel, McDougall Sound		Prinsenberg & Sosnoski (1983) Prinsenberg & Bennett (1988)
1981-0019	CANADIAN HYDROGRAPHIC SERVICE	Mar. 4- Apr. 20	Water levels	Aanderaa WLR-5, AML TG3A	[±.002 m,.02 m] [±.002 m,.02 m]	3 3	Norweglan Bay, Belcher Channel		Canadian Hydragraphic Service

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1981-0108	DEPT. OF FISH. & OCEANS, WESTERN REGION (FRESH WATER INST.)	Aug. 20	Temperature Salinity	NS NS	NS NS	2 2	McDougall Sd.	Biota:metals, zoobenthos, fish.	Freshwater Inst. (B.W. Faills)
1981-0116	PANARCTIC OILS LTD., AIEG ICE MOTION & OCEAN. STUDY	Jan. 18 - June 12	Water levels	AML TG3A	[± .002 m,.02m]	4	Norwegian Bay		Sandilands, Solvason & St. Jacques (1985)
1981-0117	FENCO FOR PANARCTIC OILS LTD.	Jan. 1 - Apr. 23	Water levels	Steven's 2A-35	±NS, .05m	3	West Lougheed Is., Maclean Strait		Fenco (1981), Van Ieperen (1982a,b)
1982-0003	ARCTIC SCIENCES LTD. FOR INST. OF OCEAN SCI., TWIN OTTER	Mar. 22 - 25	Temperature Salinity	Guildline 8706 Guildline 8706	± .001C°,.01C° ± .001C°,.01°/oo	4 4	Penny Strait, Maclean Strait Byam Martin Ch.	SiO_3, NO_3, PO_4	Fissel, Knight & Birch (1984) Melling et al. (1984)
1982-0107	DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.), HELICOPTER	Apr. 8 - 10	Temperature Conductivity	NS NS	NS NS	2 2	McDougall Sd., Wellington Ch.	Biol: phytoplankton, zooplankton Chem: SiO_3, NO_3, NO_2, PO_4	Unpub. data; Dr. N. Watson, Mar. Ecol. Lab BIO
1982-0129A	PANARCTIC OILS LTD., AIEG ICE MOTION & OCEAN. STUDY	Jan. 11 - May 16	Currents	NS	NS NS	2 2	Norwegian Bay	Ice Motion	Van Ieperen (1983)
1982-0129B	PETRO-CANADA & PHILLIPS PET. CANADA LTD.	NS	Currents	Aanderaa RCM	± .008 m/s (speed) ± 5° (direction)	3 3	Norwegian Bay		Van Ieperen (1983)
1982-0130	DOBROCKY SEATECH & FENCO CONS. LTD. FOR PANARCTIC OILS LTD.	Jan.19 - 22, May 8 - 9 Jan. 20 - May 9	Temperature Salinity Currents	Guildline 8705 Guildline 8705 Aanderaa RCM	±NS,.01C° ±NS,.02°/.. ±.005 m/s,.008m/s(sp) ±.5°,5° (direction)	3 3 3 3	Lougheed Is. & Pr. Gustaf Adolf Sea (Cape Mamen F-24, Sculpen K-08, Hecla N-52, Whitefish A-26, Cisco C-42)	Meteorological	Van Ieperen(1982a,b)
1982-0131	CAN. HYDROGR. SERVICE, INST. OF OCEAN SCI.	June 6,1982- June 5,1983	Water levels Temperature	AML TG3A AML TG3A	[±.002 m,.02m] NS	4 2	Mould Bay, Audhild Bay		Unpub. data (CHS, IOS)

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1983-0004A	CESAR, FROZEN SEA RES. GROUP, INSTITUTE OF OCEAN SCIENCES	Apr. 1 - May 11	Temperature Salinity	Guildline 8706 Guildline 8706	[±.003C°,.003C°] [±.005°/oo,.01°/oo]	4 4	Nansen Sound	NO_3, PO_4, SiO_3	Unpub. data, Perkin (IOS)
1983-0005	ARCTIC SCIENCES LTD. FOR IOS, AIRCRAFT	Mar. 26-27	Temperature Salinity	Guildline CTD Guildline CTD	[±.001C°,.01C°] [±.001°/oo,.01°/oo]	4 4	Prince Gustaf Adolf Sea	NO_3, PO_4, SiO_3	Fissel, Lemon and Knight (1984)
1983-0008	DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES	Apr. 1983 - May 1984 Apr.5-May 5 Mar. 21-30	Currents Temperature Conductivity Water levels Temperature Salinity	Aanderaa RCM-4 Aanderaa RCM-4 Aanderaa RCM-4 Aanderaa WLR5A Guildline 8706 Guildline 8706	[±.05,2% m/s] (speed) [±.4,30°] (direction) [±.02,.15C°] [±.1°/oo],NS [± .005db,.03db] [±.0005C°,.005C°] [±.001°/oo,.005°/oo]	4 4 4 4 4 4 4	Byam Martin Channel,Austin Channel	NO_3, PO_4, SiO_3	deLange Boom, Melling & Lake (1987), Fissel, et al. (1988) Stronach et al.(1987) Buckingham, Lake & Melling (1987a,b)
1983-0076	DOBROCKY SEATECH FOR PANARCTIC OILS LTD.	Jan.25-Mar. 27 Nov.27,1982-Apr. 9, 1983	Currents Temperature Salinity Water levels	Aanderaa RCM-4 Guildline 8705 Guildline 8705 Steven Type F	NS,±.008 m/s (speed) NS,±5° (direction) NS,±.01C° NS,±2°/oo NS,±.05m	3 3 3 3 0	Edingburgh Sea (Cape MacMillan 2K-15 & Grenadier A-26), W. Lougheed Is. (Cisco K-58)	Ice motion	Panarctic (1983)
1983-0077	CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES	June 1983-June 1984	Water levels Temperature	AML TG3A AML TG3A	[±.002m,.02m] [±NS,.01C°]	4 4	Isachsen, Mould Bay Audhild Bay		Unpub. Data (CHS,IOS)
1984-0039	DEPT. OF FISH. & OCEANS, WESTERN REGION (FRESHWATER INSTITUTE)	Aug. 12-16	Temperature Salinity	NS NS	NS NS	2 2	McDougall Sd.	Fish, benthos, sediment, biota	DFO, Winnipeg (B.W. Fallis)
1984-0049A	DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES	Mar. 30 - Apr. 24 Apr.7, 1984-Apr.18, 1985 Apr. - June	Temperature Salinity Currents Water levels Temperature Conductivity	Guildline 8706 Guildline 8706 RCM-4, RCM-12 TG12A, WLR5A RCM-4 RCM-4	[±.0005C°,.005C°] [±.001°/oo,.005°/oo] [NS,±.008 m/s] [±.002m,.02m] [±.02,.15C°] [±.1°/oo],NS	4 4 4 4 4 4	Penny Strait, Hazen Strait, Prince Gustaf Adolf Sea, Ballantyne Str., Wellington Ch., McDougall Sd.		Buckingham, Lake and Melling (1987c,d) Fissel et al. (1988) Stronach et al. (1987)
1984-0049B	DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES, ARCTIC SHELF PROGRAM	Mar. 26-Apr. 24	Temperature Salinity Currents Temperature Conductivity	Guildline CTD Guildline CTD Aanderaa RCM-4 Aanderaa RCM-4 Aanderaa RCM-4	[±.001C°,.01C°] [±.001°/oo,.01°/oo] [NS,±.008m/s] [±.02,.15C°] [±.1°/oo],NS	4 4 2 2 2	W. Lougheed Is., Penny Strait, Ballantyne Strait		Perkin (pers. comm.)

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used NS=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1984-0059	DOBROCKY SEATECH LTD. & GEOTECHNICAL SERVICES LTD. FOR PANARCTIC OILS LTD.	Jan. 17- Apr. 19	Currents	Aanderaa RCM-4	NS,±.025 m/s (speed)	3	Norwegian Bay (Buckingham 0-68)	Ice motion	Dobrocky (1984)
					NS,±5° (direction)	1			Van Ieperen (1984)
		Dec.17,1983- May 12,1984	Water levels	Steven Type F	NS,±.05m	3			
				Aanderaa TG3a	±.002m,.02m	3			
			Temperature	Aanderaa TG3a	±.005C°,.01C°	3			
				Guildline 8705	NS,±.005C°	3			
			Salinity	Guildline 8705	NS,±.01°/oo	3			
1984-0060	CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES	May 28,1984- May 21,1985	Water levels	AML TG3A,TG12A	[±.002m,.02m]	4	Isachsen, Mould Bay, Audhild Bay		Unpub. data (CHS,IOS)
			Temperature	AML TG3A,TG12A	[NS,±.01C°]	4			
1985-0015	DALHOUSIE UNIV. DEPT. OF OCEAN.	Apr. 24	Salinity	NS	NS	2	Ballantyne Strait	Si, NO_3, O_2	Unpub. data (Dr. R.M. Moore, Dalhousie U.)
1985-0042	CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES	May 17,1985- May 20,1986	Water levels	AML TG3A, TG12A	[±.002m,.02m]	4	Isachsen, Mould Bay, Audhild Bay		Unpub. data (CHS,IOS)
				Aanderaa WLR's		4			
			Temperature	AML TG3A, TG12A	[NS,±.01C°]	4			
				Aanderaa WLR-5					
1985-0043	CAN. HYDR. SERVICE, BAYFIELD INST.	Mar. 15- Apr. 24	Water levels	Aanderaa WLR-5	±.14mb,1.4mb	4	Cameron Is.		Sandilands, Solvason & St. Jacques (1986)
1985-0044	DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES	Apr. 5- May 4	Temperature	Guildline CTD	[±.001C°,.01C°]	4	Mould Bay		Perkin, IOS (pers. comm.)
			Salinity	Guildline CTD	[±.001°/oo,.01°/oo]	4			
1986-0016	GEOTECH, FOR PANARCTIC OILS LTD.	Dec.17,1985- Apr. 5,1986	Water levels	NS	NS	2	Norwegian Bay (N. Buckingham L-71)	Ice temperature & salinity	Geotech (1986)
1986-0018	CSS HUDSON; BEDFORD INST. OF OCEANOGRAPHY	Aug.28 - Sept. 12	Temperature	Guildline 8870	±NS,0.02C°	4	Wellington Ch., Austin Ch., Byam Ch.	Zooplankton, chlorophyll	Head, Bedo & Harris (1988)
			Salinity	Guildline 8870	±NS,0.04°/oo	4			
1987-0002	CSS BAFFIN; CAN. HYDR. SERVICE, BEDFORD INST. OF OCEANOGRAPHY	Sept. 3-18	Water levels	Ottbora	NS	3	Norwegian Bay		Unpub. data; S. Grant (BIO).

9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current and water-level measurements. Three different maps, all in Lambert Conformal Conic projection, have been used to plot data. The overall map has a scale of 1:4,750,000. Two larger scale maps were used to better illustrate the distribution of stations in the southeast sector (Wellington Channel, Penny Strait, etc.), and in the Nansen Sound-Eureka Sound area; scales are 1:2,630,000 and 1:2,000,000 respectively.

Generally, temperature-salinity and any water-level stations are plotted together. If there were also current-meter data, then the first map will have only temperature-salinity, and the current and water-level data will be displayed on a second map. The overall map generally contains all the stations; the sub-maps provide more details and several may be used to display station positions in one area.

For some data sets, exact locations are not known, and this is noted in the map legend.

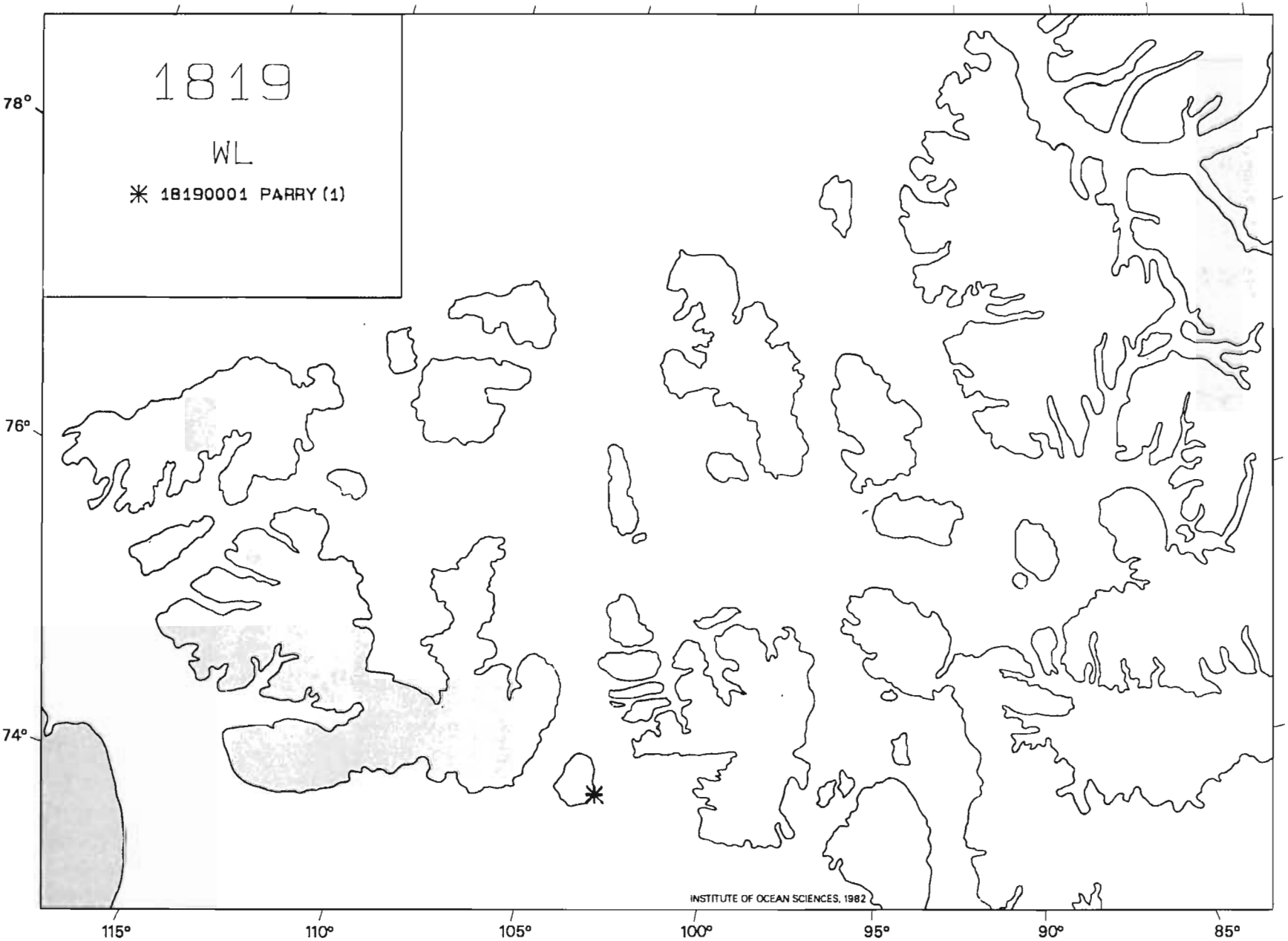
The legend indicates the following data types:

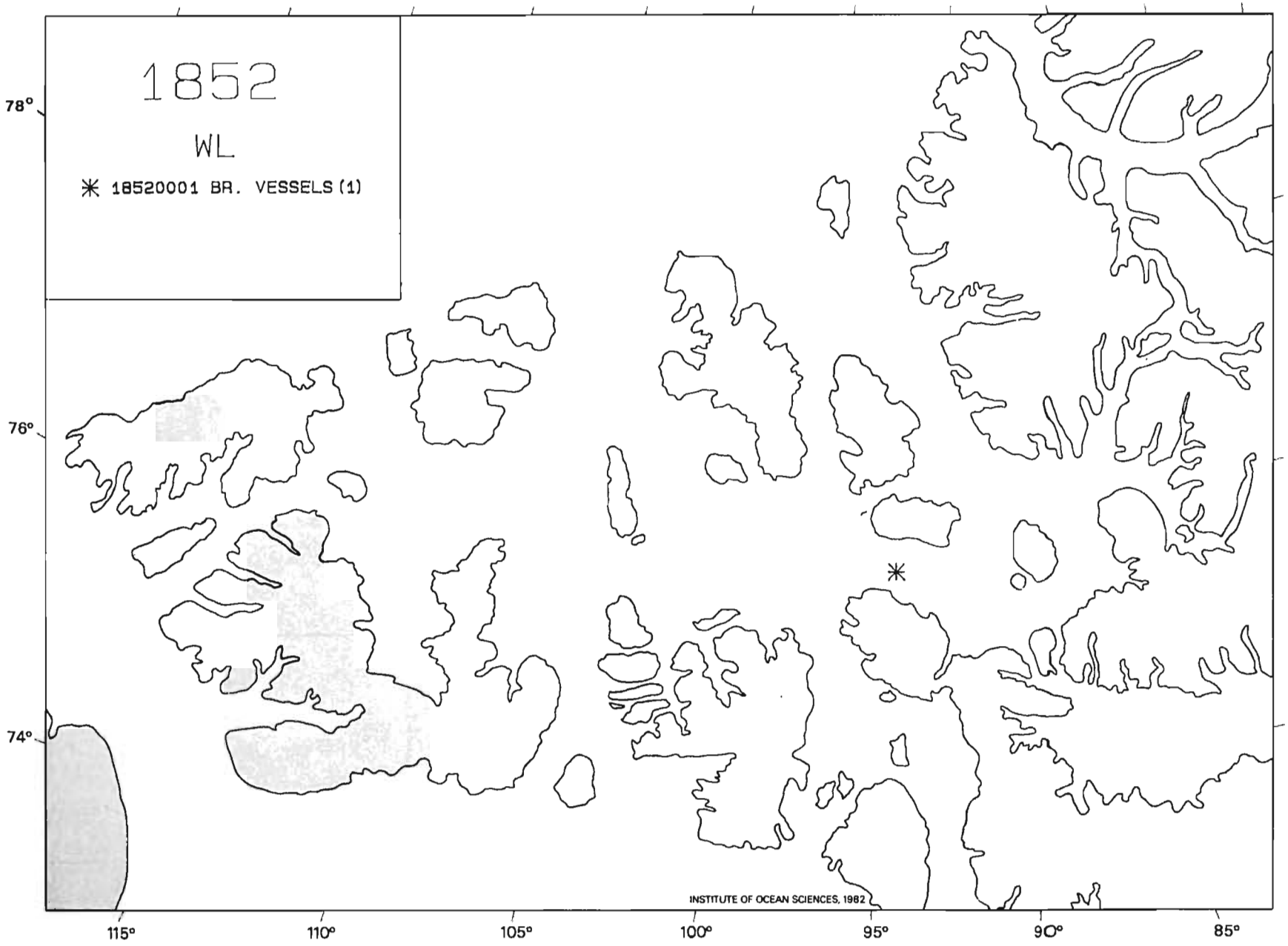
CM - current meter data
TS - temperature-salinity data
WL - water-level data

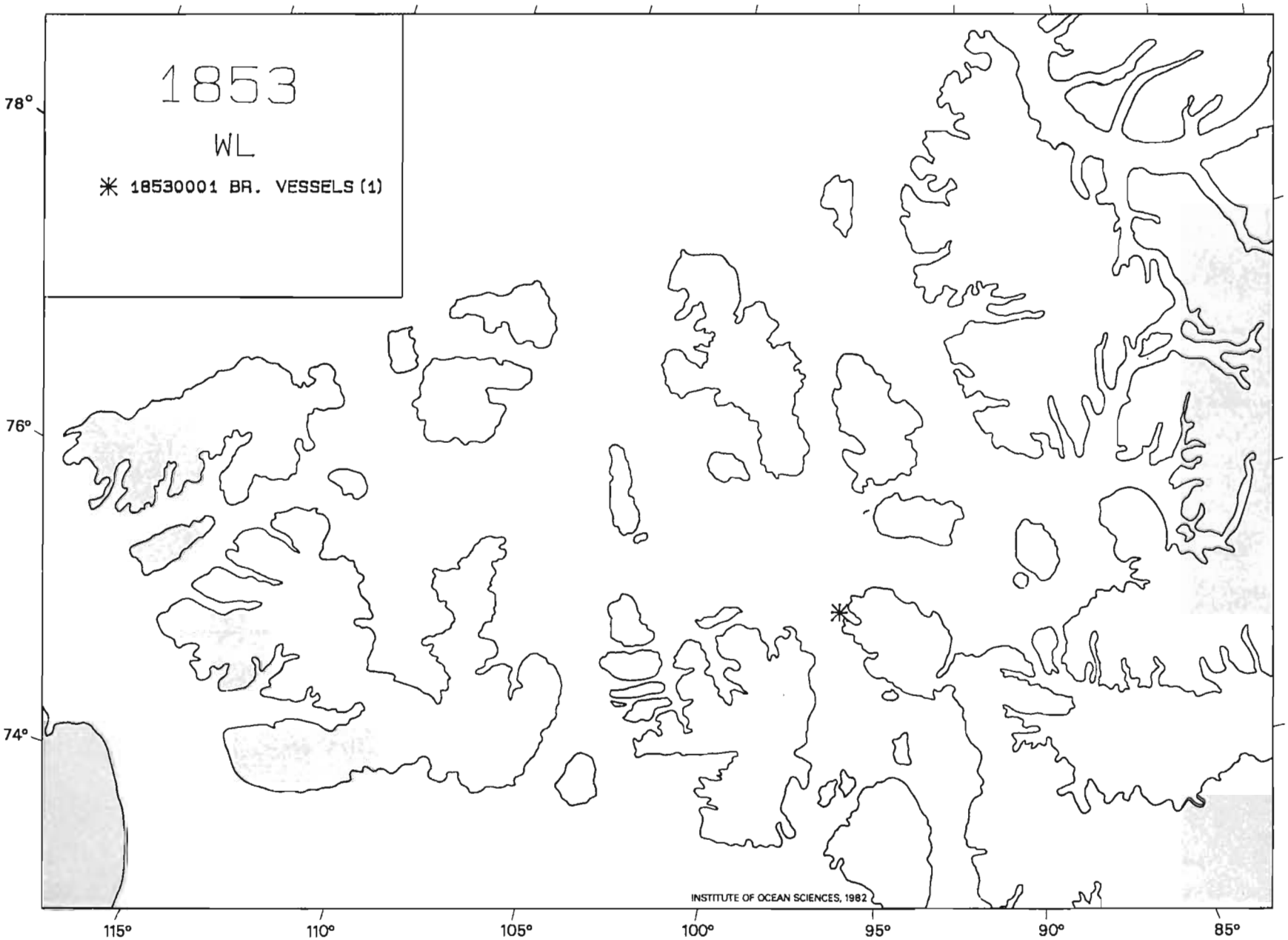
Under each category are listed the data sets and station symbols used in the plot. The identifier number is followed by the vessel/agency and the total number of stations located within the map boundaries, in brackets. Since some stations in a particular data set may be at the same location, the number in brackets may exceed the number of symbols on the plot.

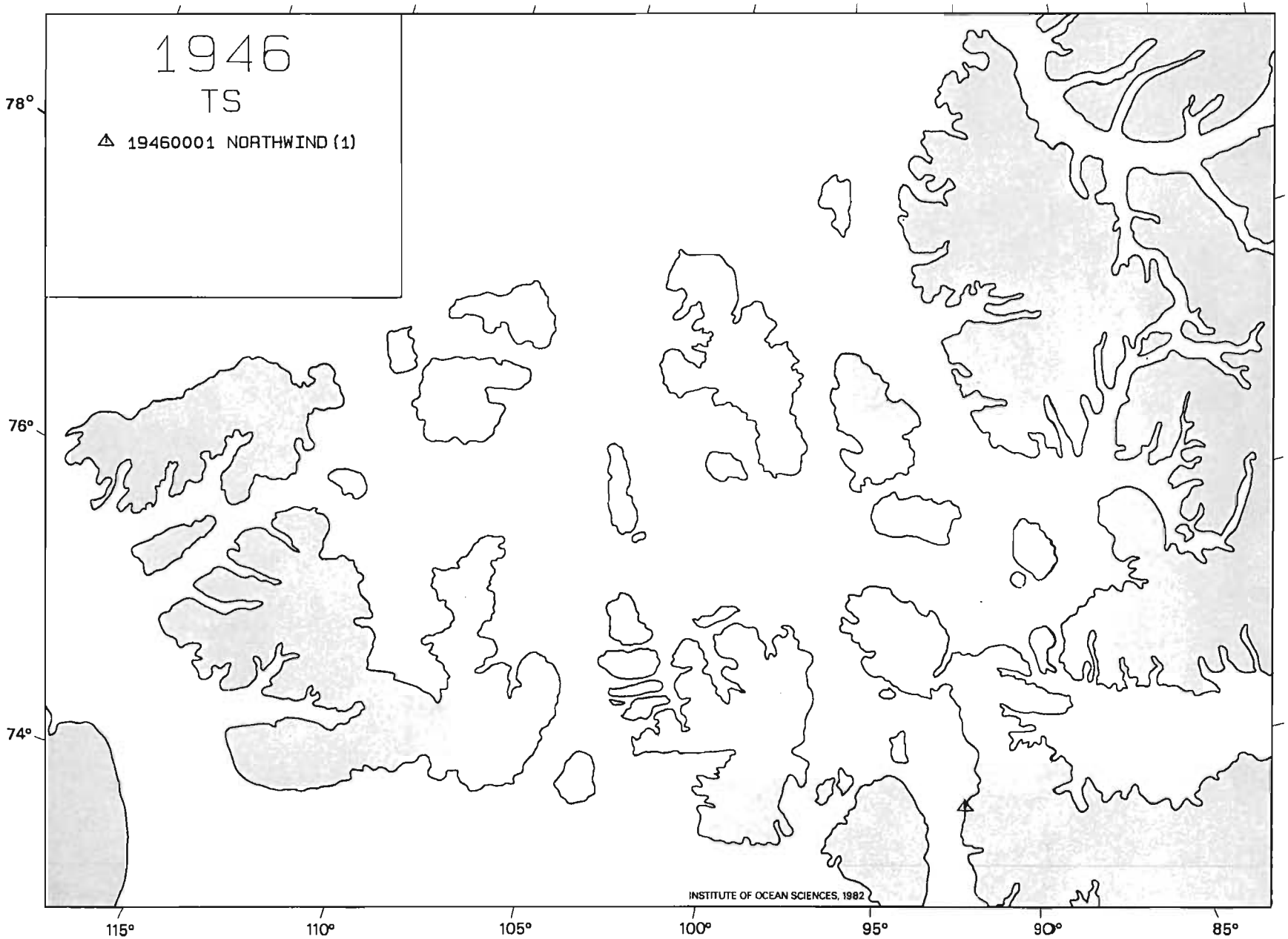
The TS data are primarily profile data, however some moored instruments had temperature and/or conductivity sensors. These can be differentiated in the listings of section 11.

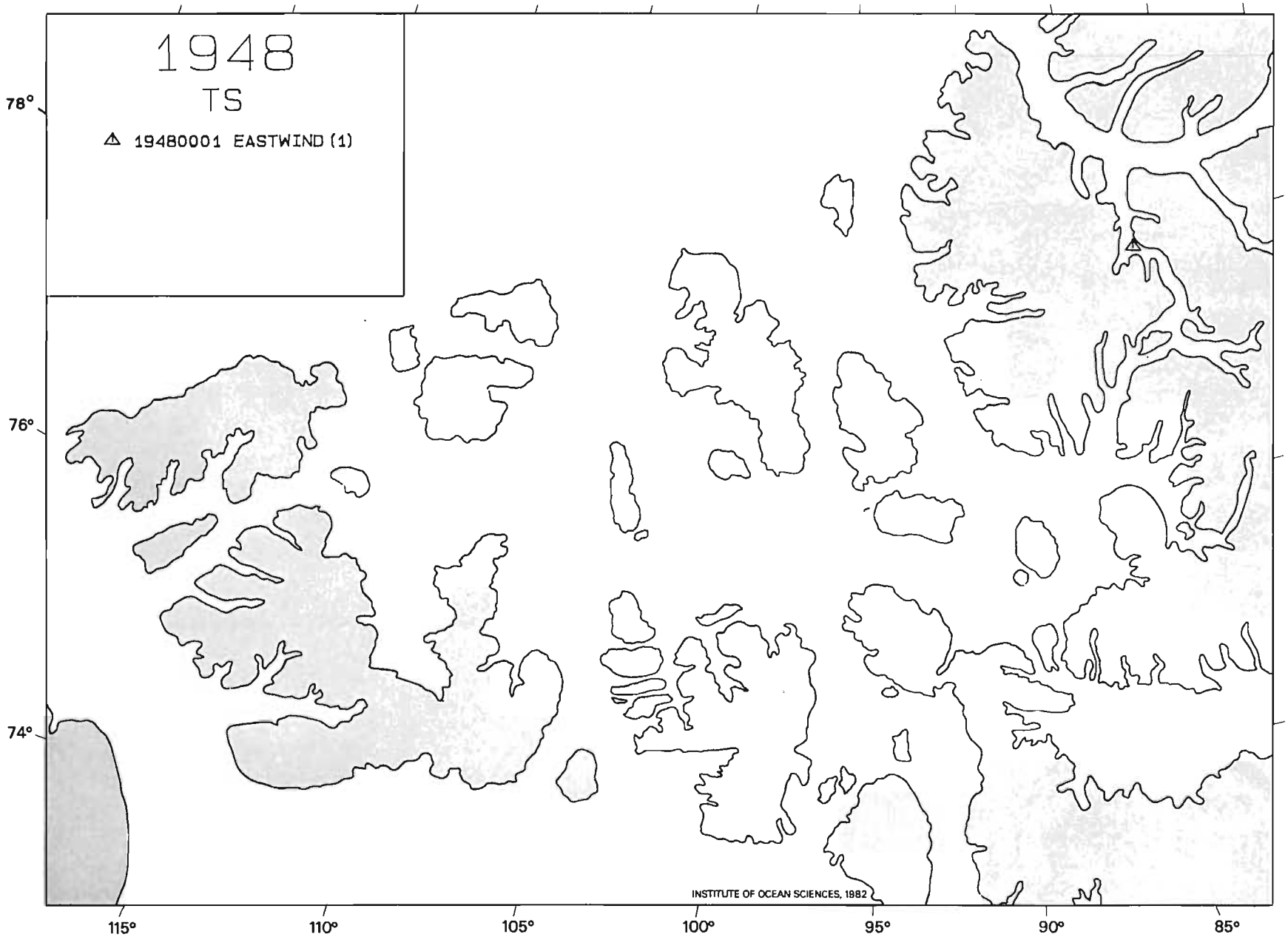
The coastlines have been smoothed and small islands removed. A minimum consecutive displacement of 0.07 inch is required for a new station to be plotted. This was implemented to prevent the plotter from wearing through the paper in heavily sampled locations. Vessel/agencies in the legend are abbreviations. Note that cruise station symbols may be different on two different maps.

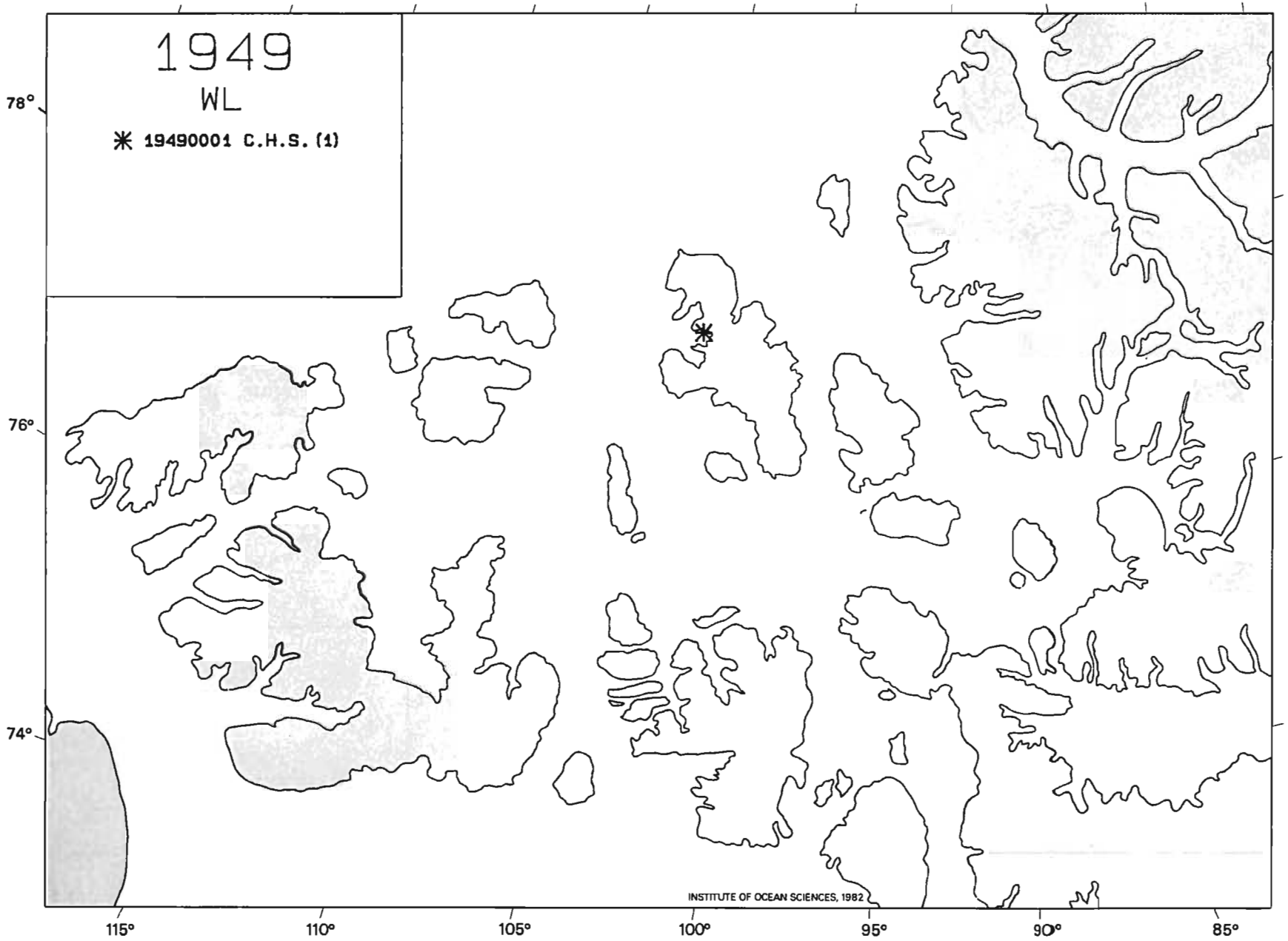

1819
WL
✳ 18190001 PARRY (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1852
WL
✳ 18520001 BR. VESSELS (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1853
WL
✳ 18530001 BR. VESSELS (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1946
TS
19460001 NORTHWIND (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1948
TS
19480001 EASTWIND (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1949
WL
19490001 C.H.S. (1)
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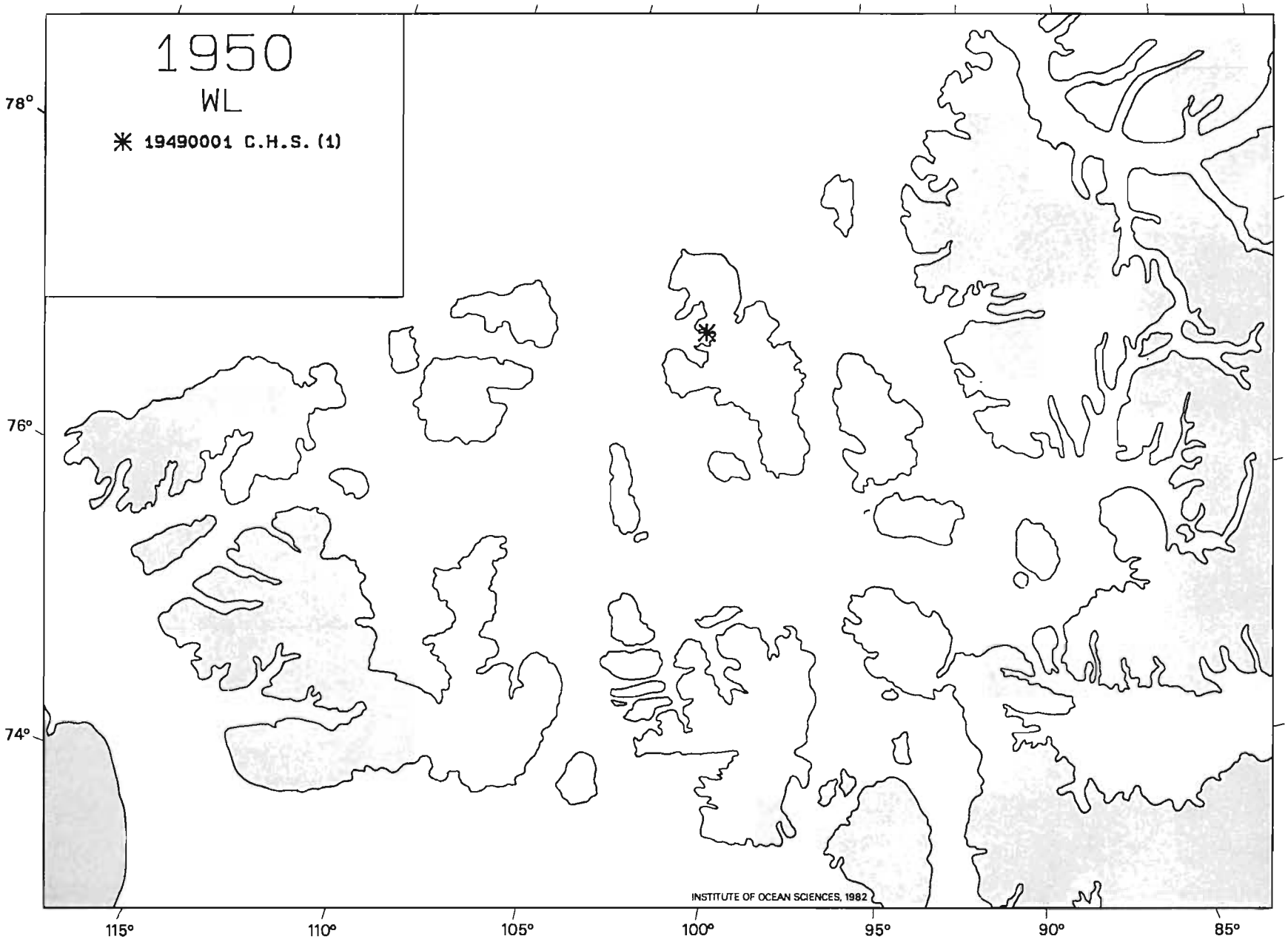
INSTITUTE OF OCEAN SCIENCES, 1982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WL
19490001 C.H.S. (1)
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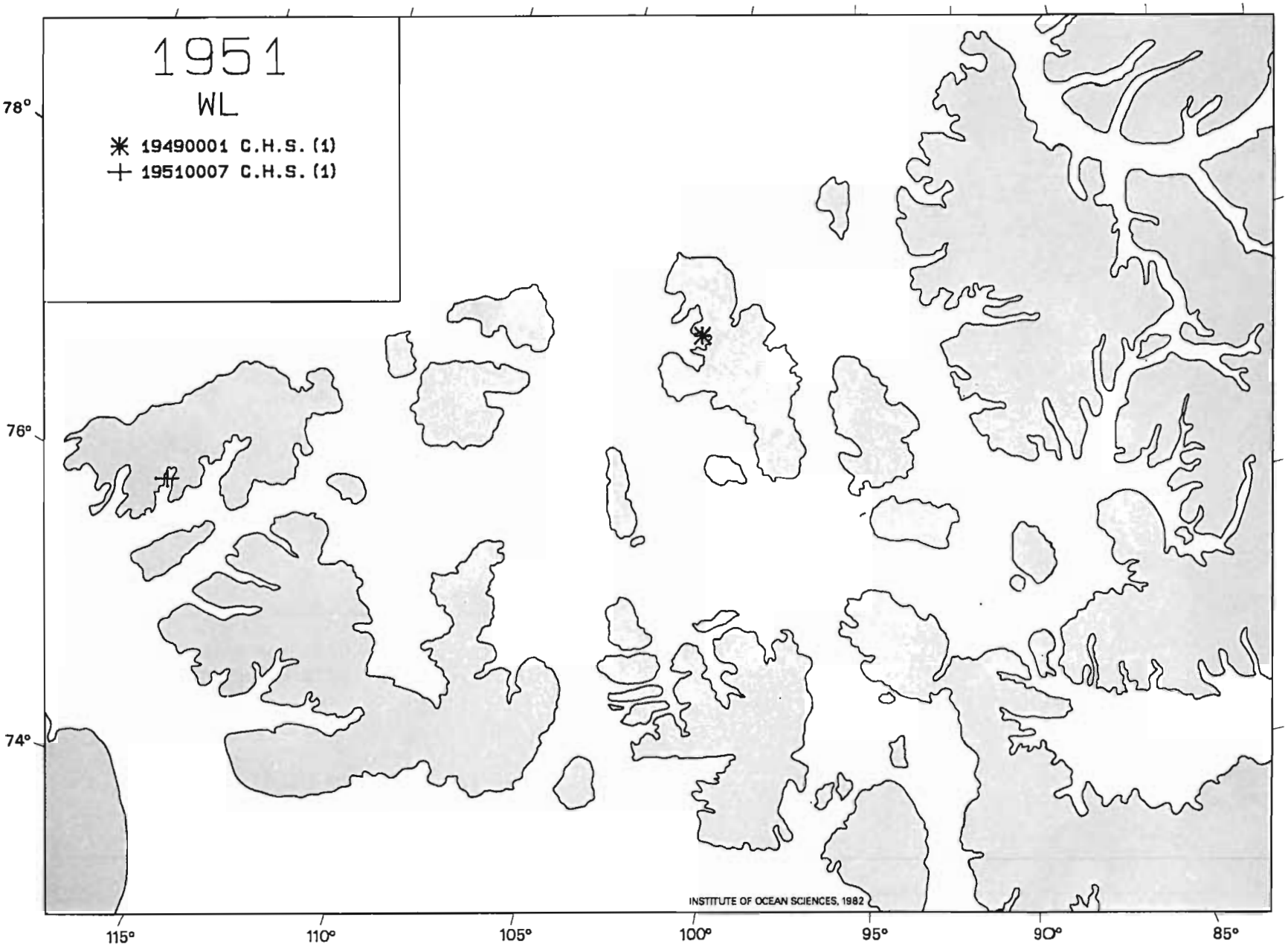
INSTITUTE OF OCEAN SCIENCES, 1982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19510007 C.H.S. (1)
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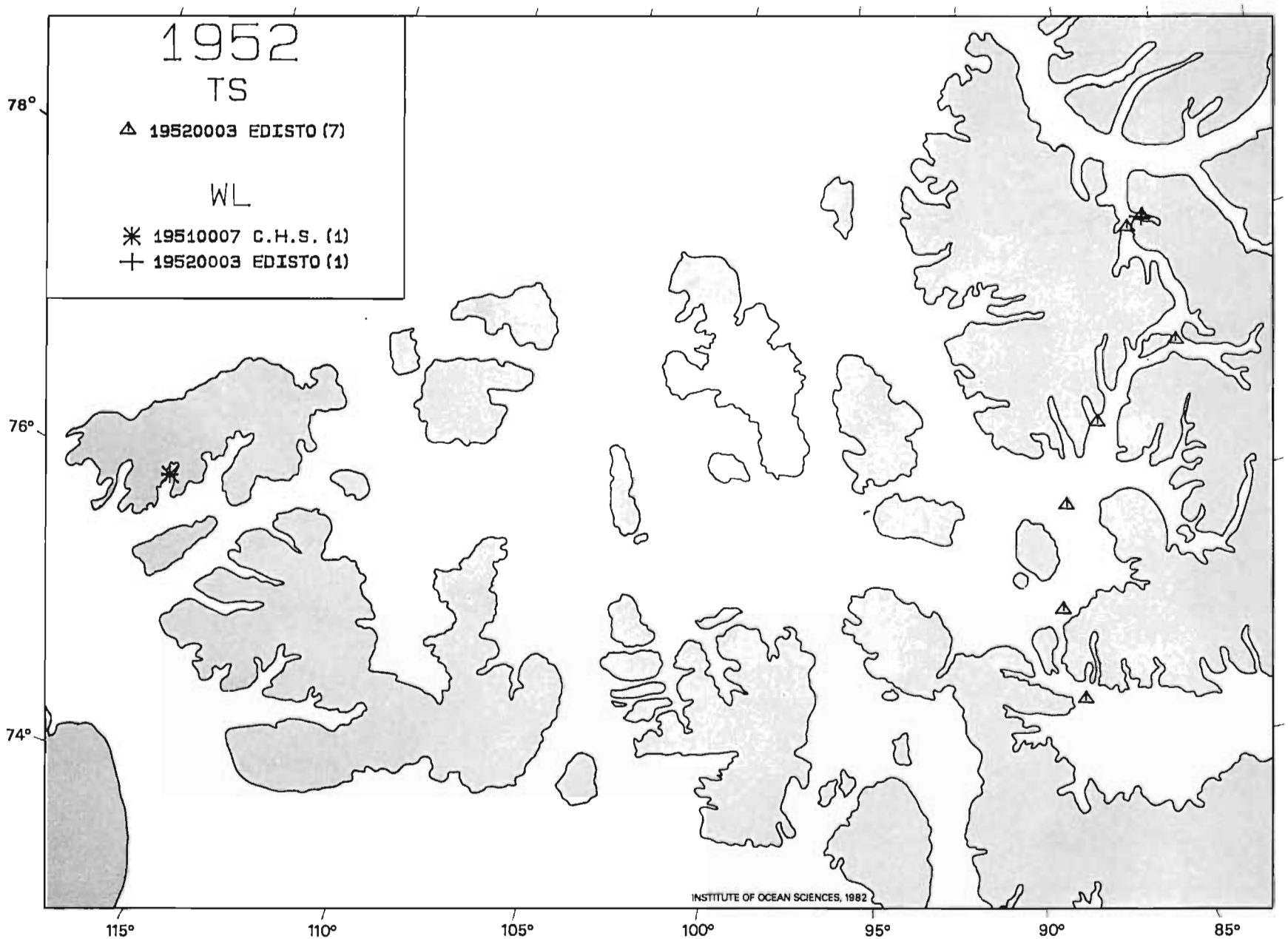
INSTITUTE OF OCEAN SCIENCES, 1982


1952
TS
19520003 EDISTO (7)
WL
19510007 C.H.S. (1)
19520003 EDISTO (1)
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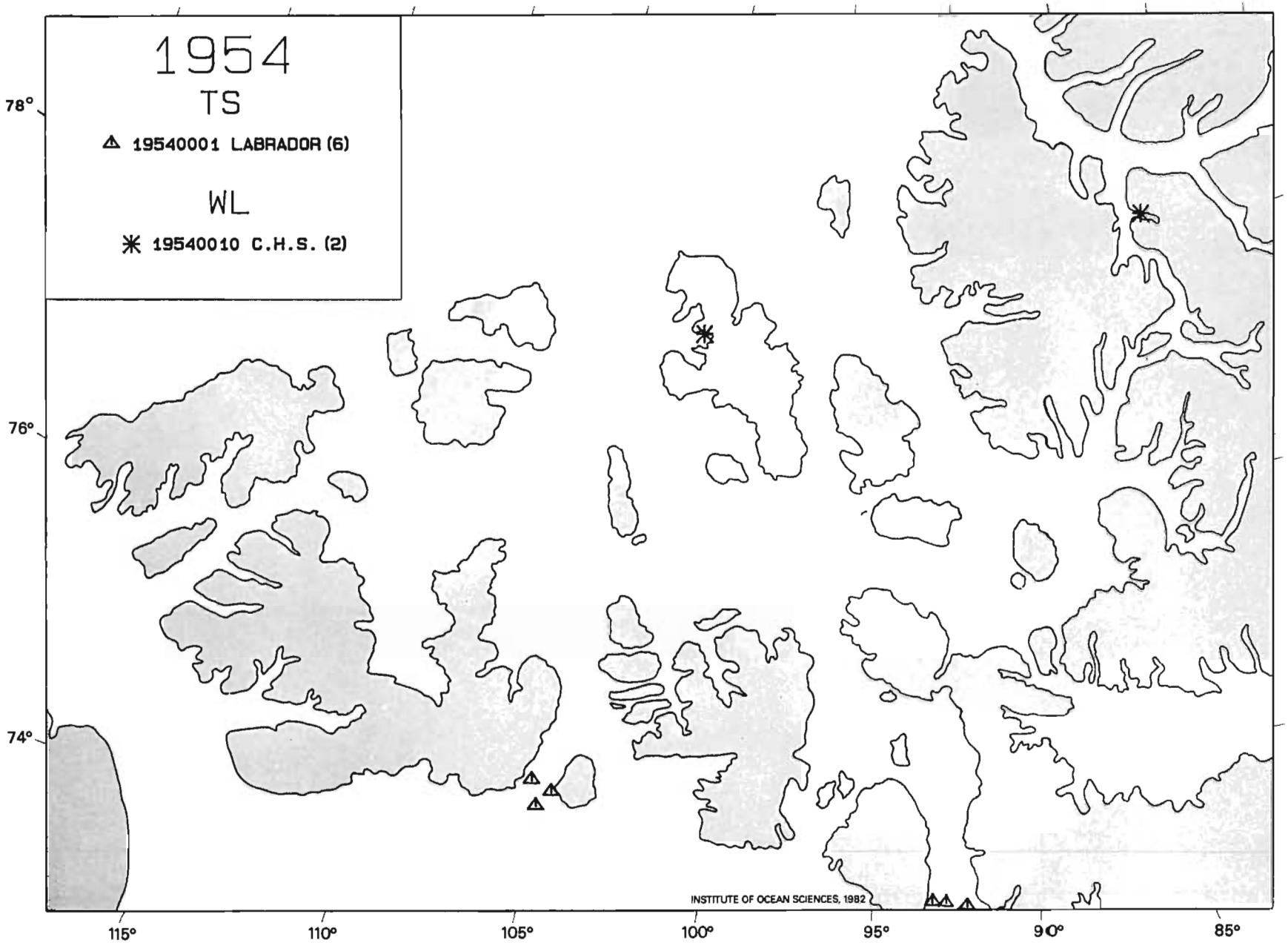
INSTITUTE OF OCEAN SCIENCES, 1982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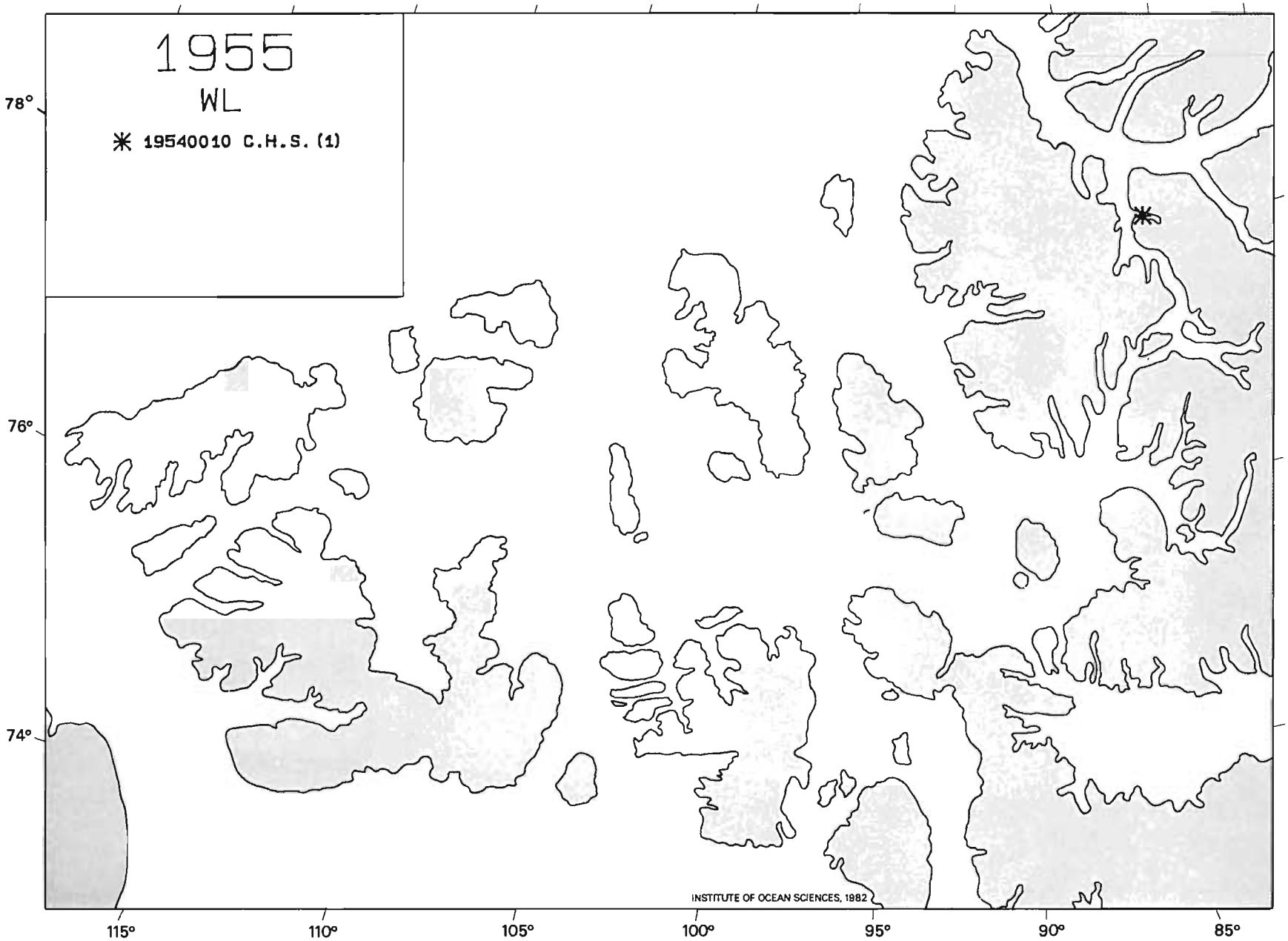
INSTITUTE OF OCEAN SCIENCES, 1982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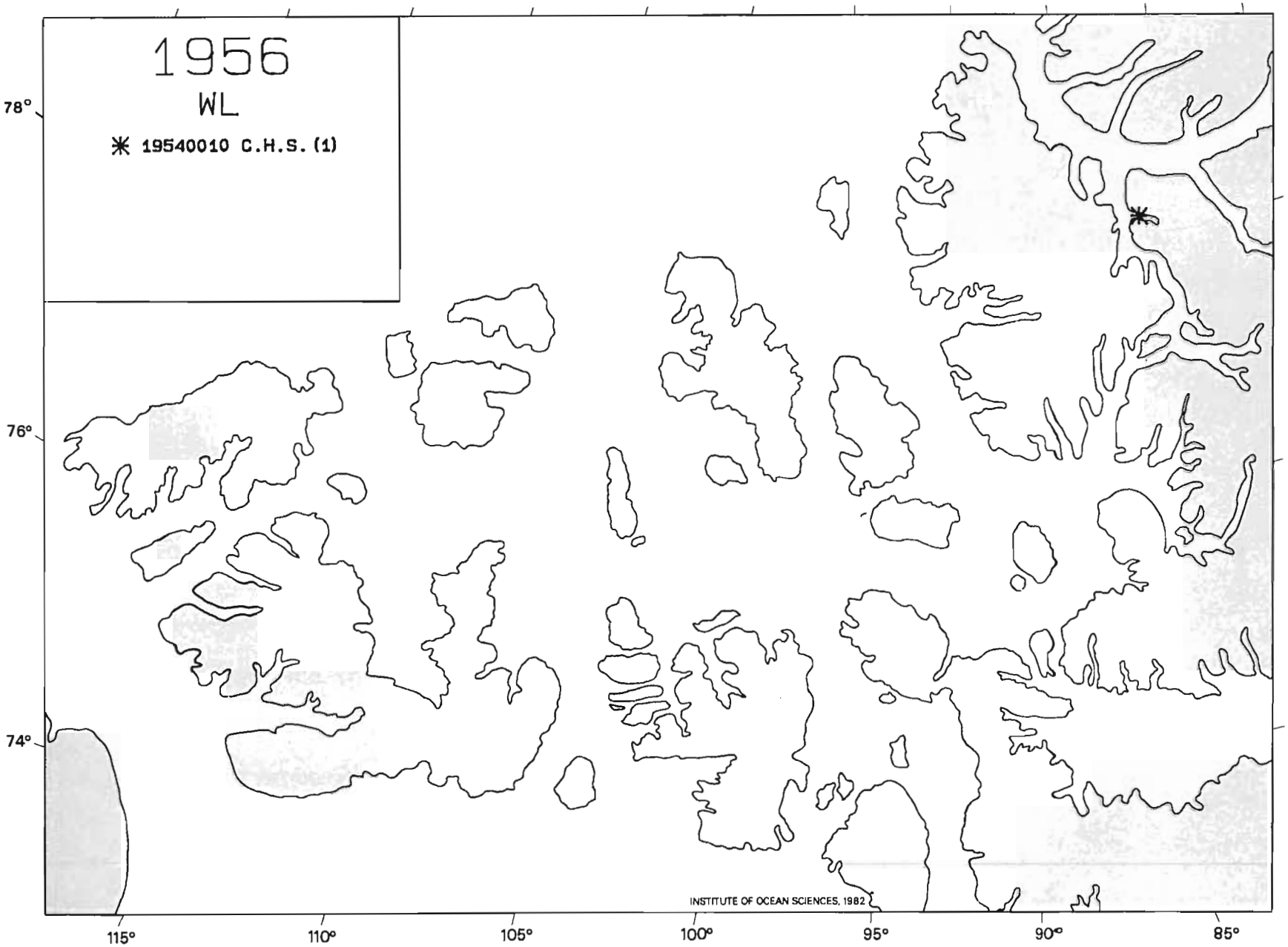
INSTITUTE OF OCEAN SCIENCES, 1982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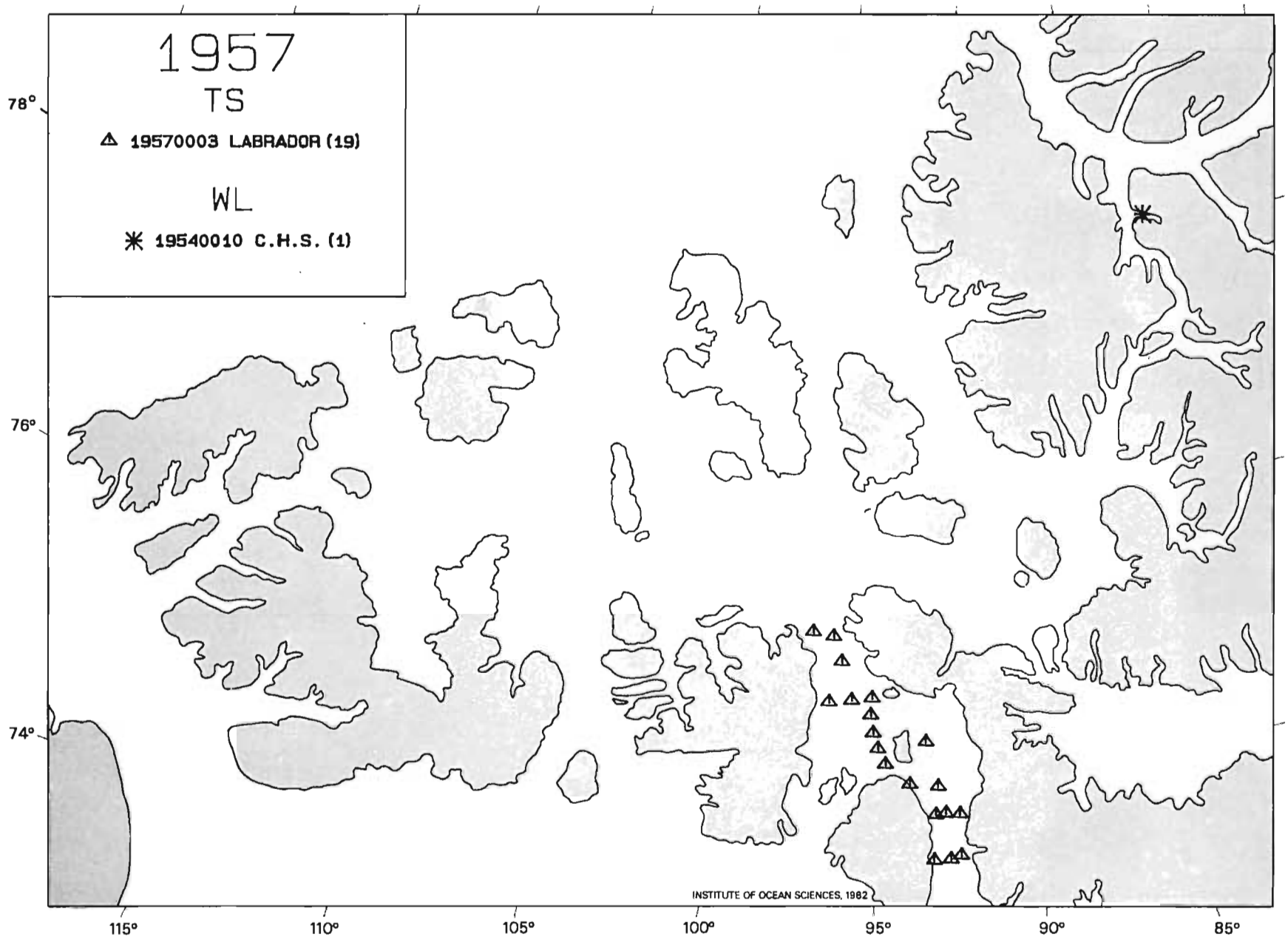
INSTITUTE OF OCEAN SCIENCES, 1982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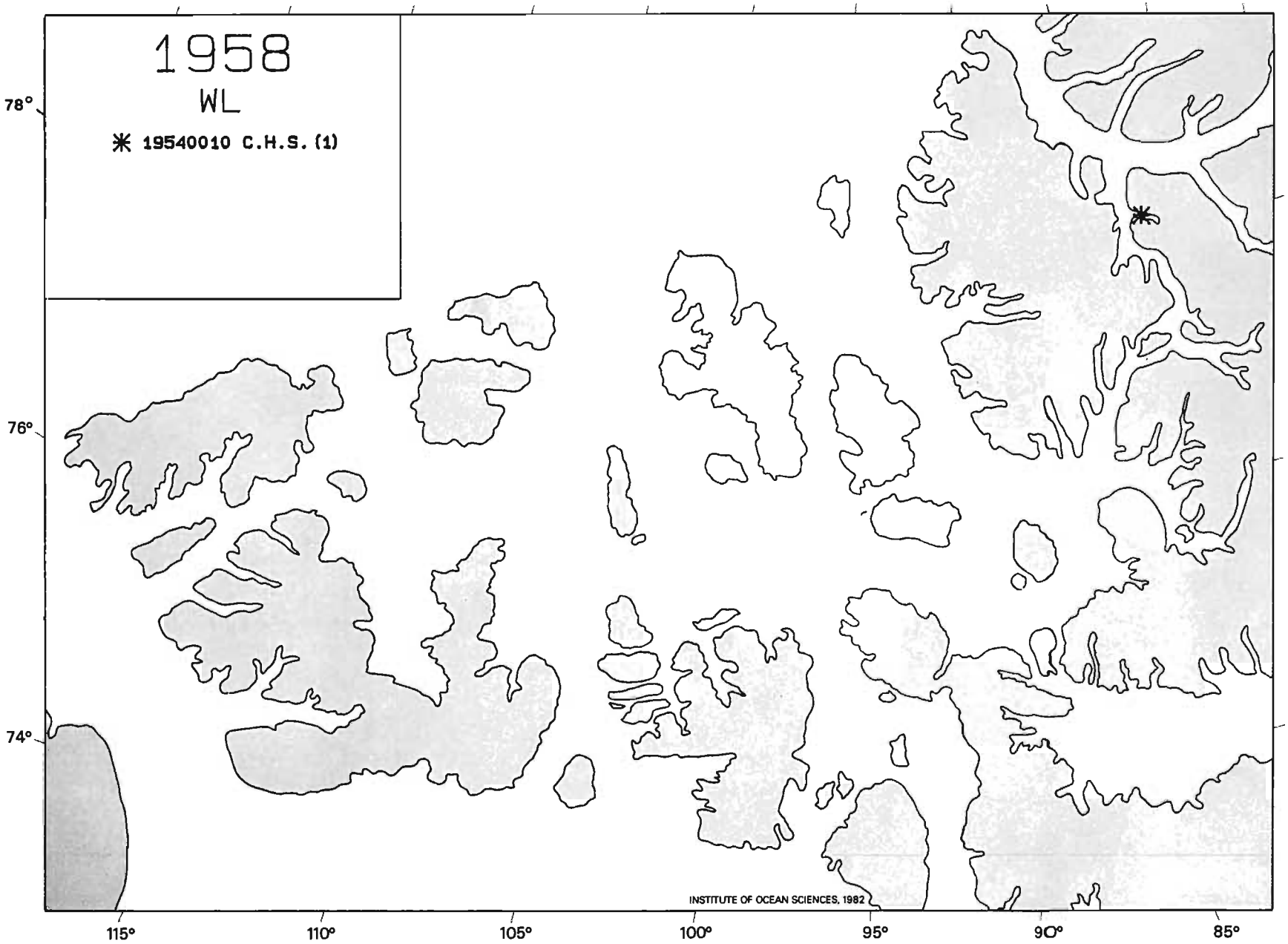
INSTITUTE OF OCEAN SCIENCES, 1982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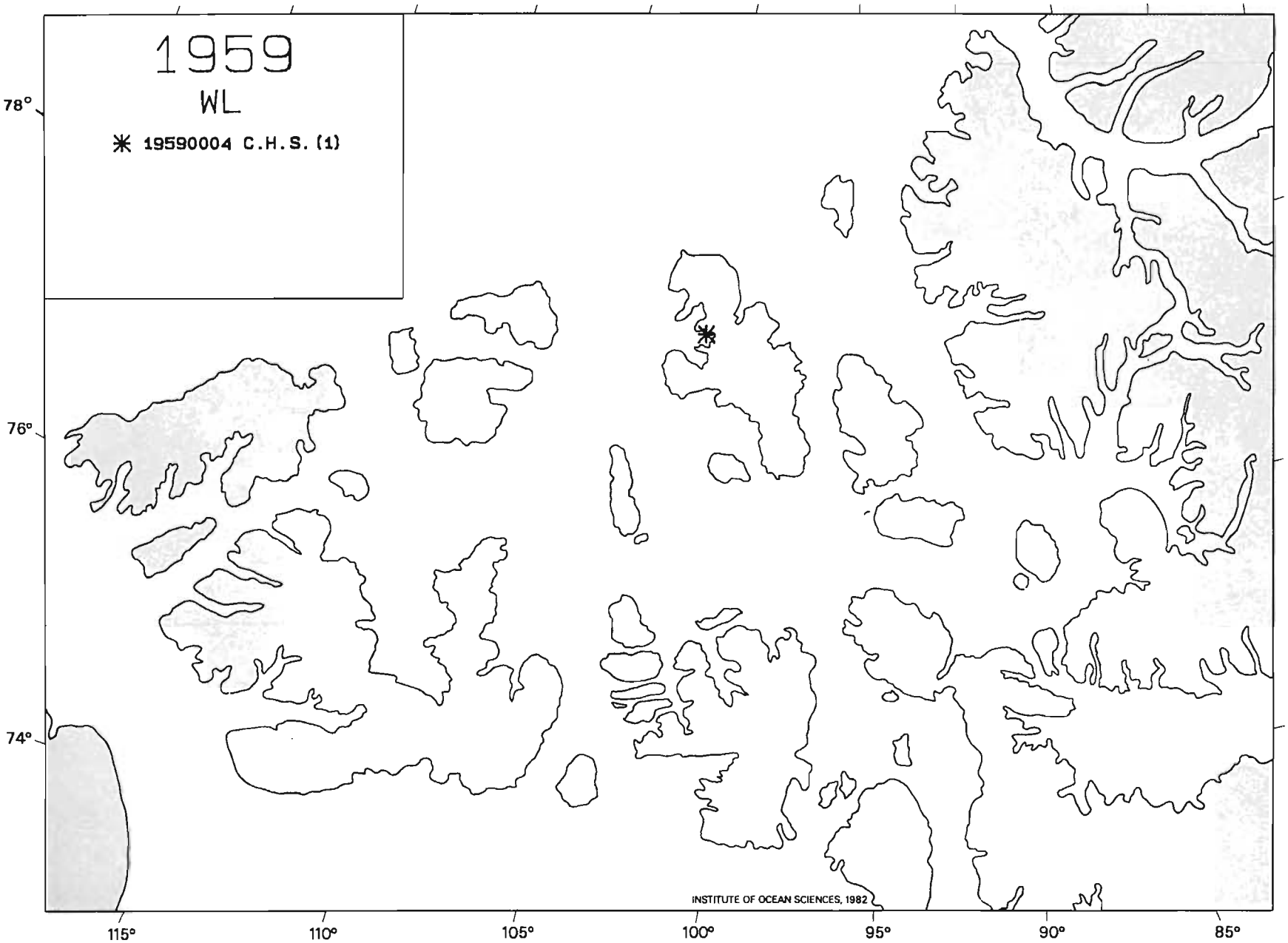
INSTITUTE OF OCEAN SCIENCES, 1982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19590004 C.H.S. (1)
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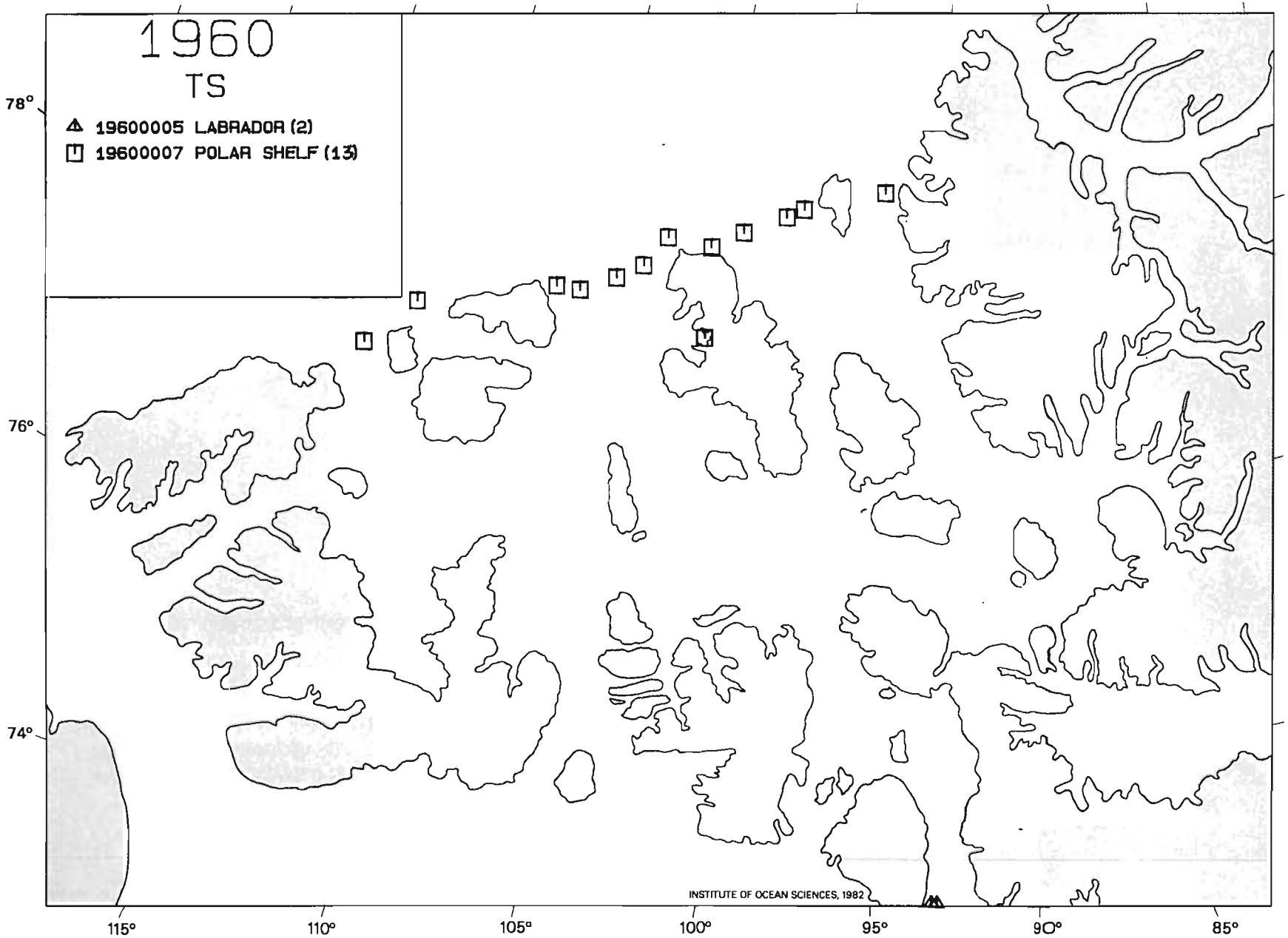
INSTITUTE OF OCEAN SCIENCES, 1982


1960
TS
19600005 LABRADOR (2)
19600007 POLAR SHELF (13)
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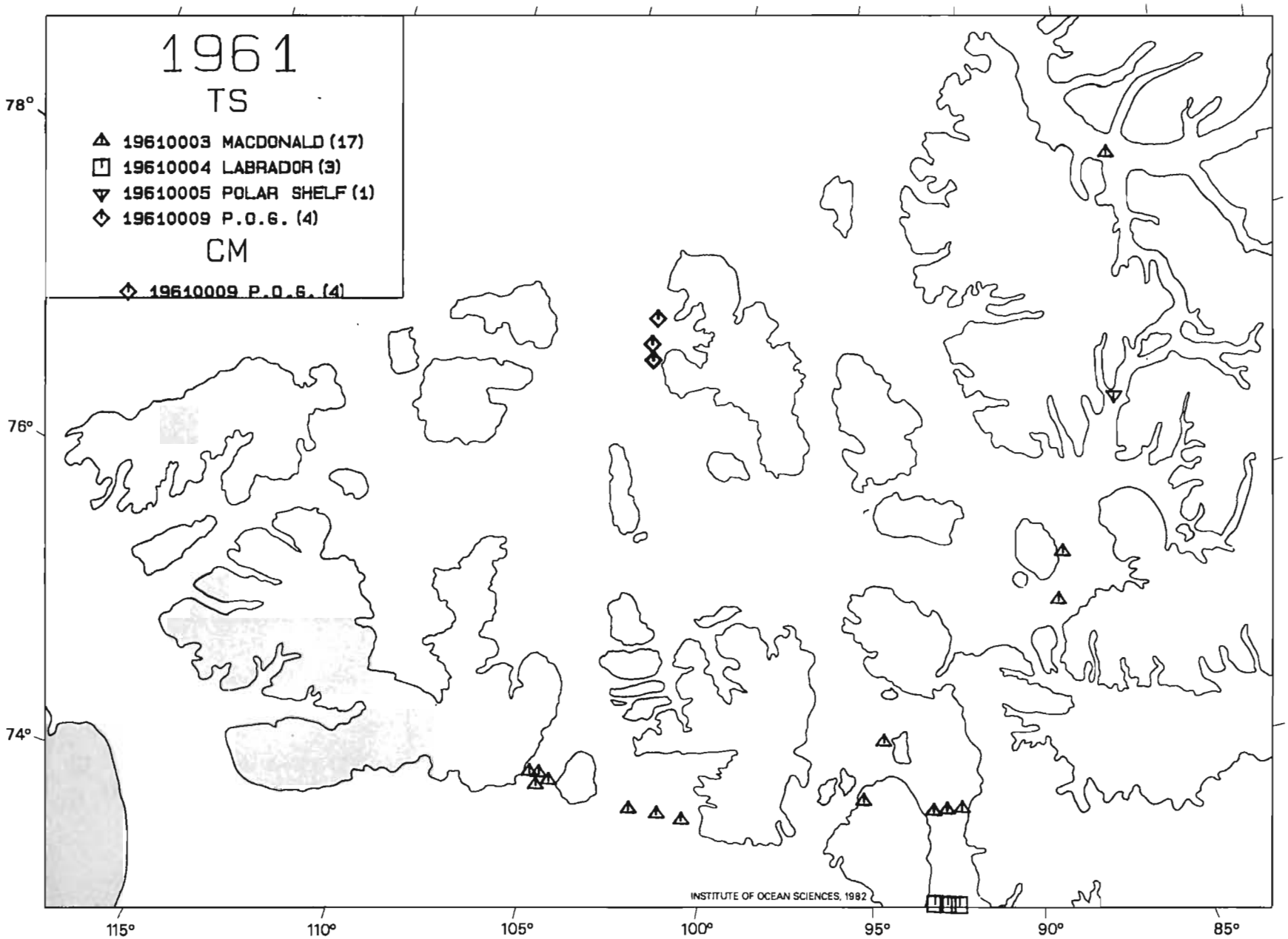
INSTITUTE OF OCEAN SCIENCES, 1982


1961
TS
19610003 MACDONALD (17)
19610004 LABRADOR (3)
19610005 POLAR SHELF (1)
19610009 P.O.G. (4)
CM
19610009 P.O.G. (4)
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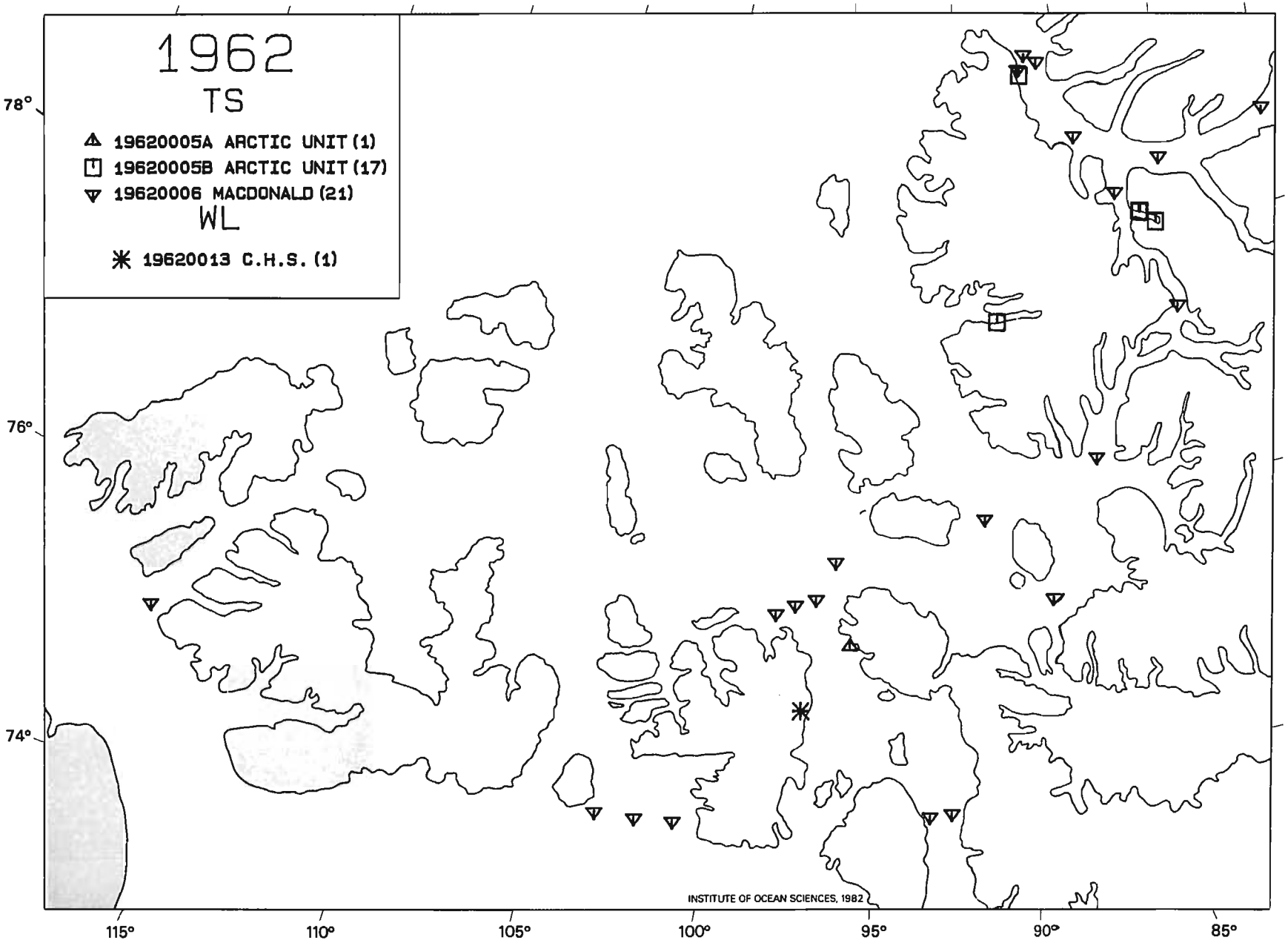
INSTITUTE OF OCEAN SCIENCES, 1982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19620005B ARCTIC UNIT (17)
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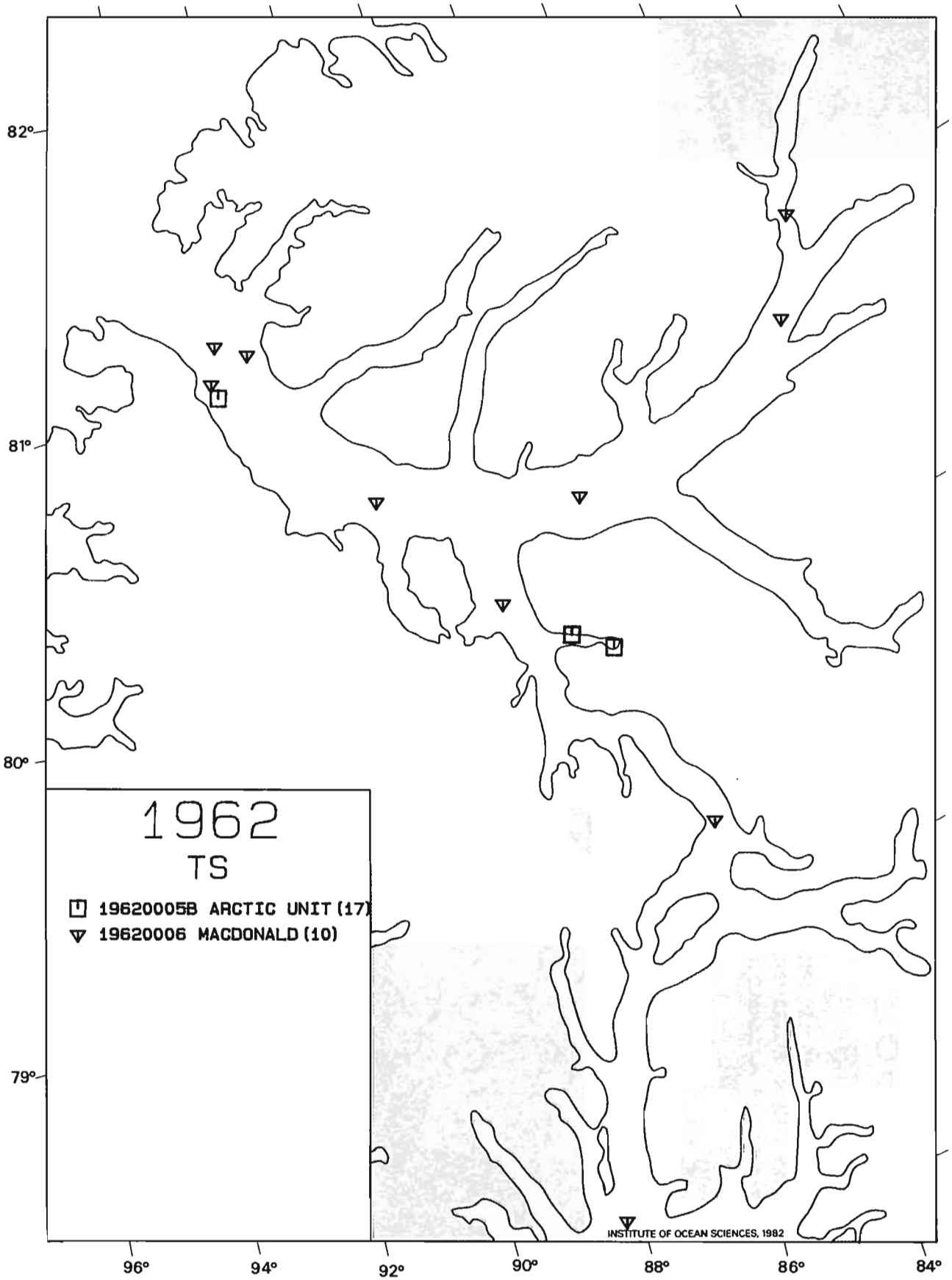
INSTITUTE OF OCEAN SCIENCES, 1982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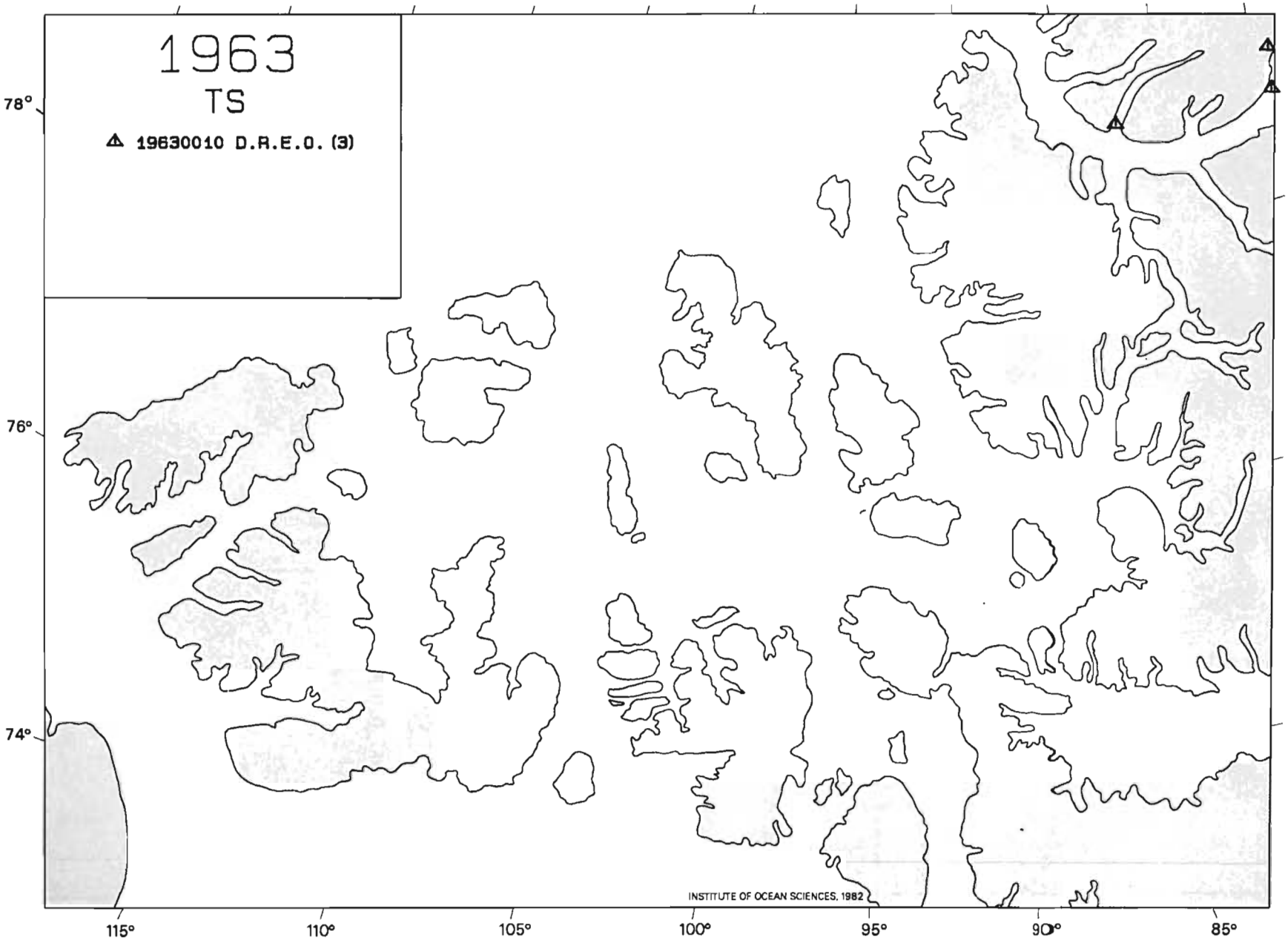
INSTITUTE OF OCEAN SCIENCES, 1982


1963
TS
19630010 D.R.E.O. (3)
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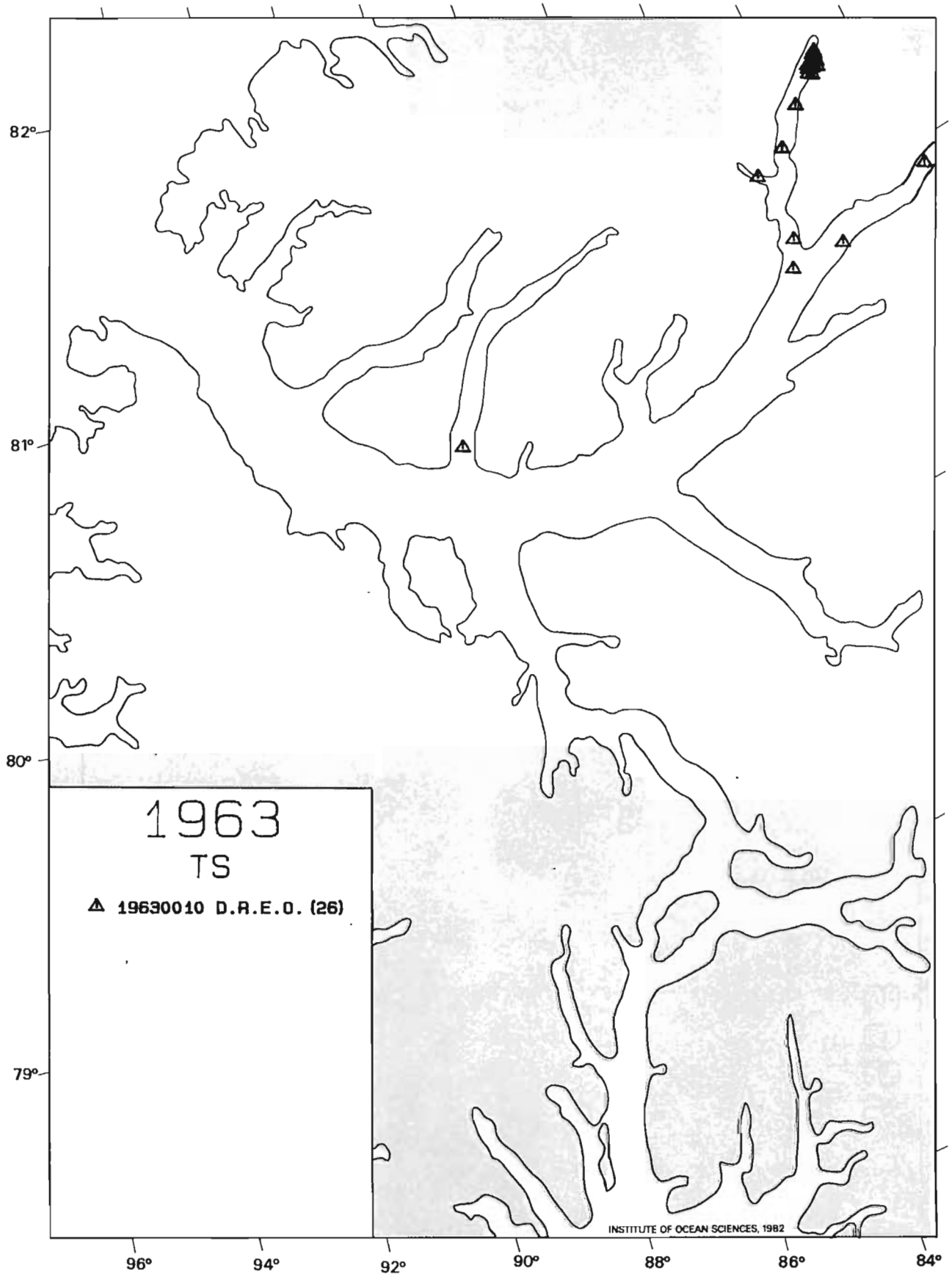
INSTITUTE OF OCEAN SCIENCES, 1982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1963
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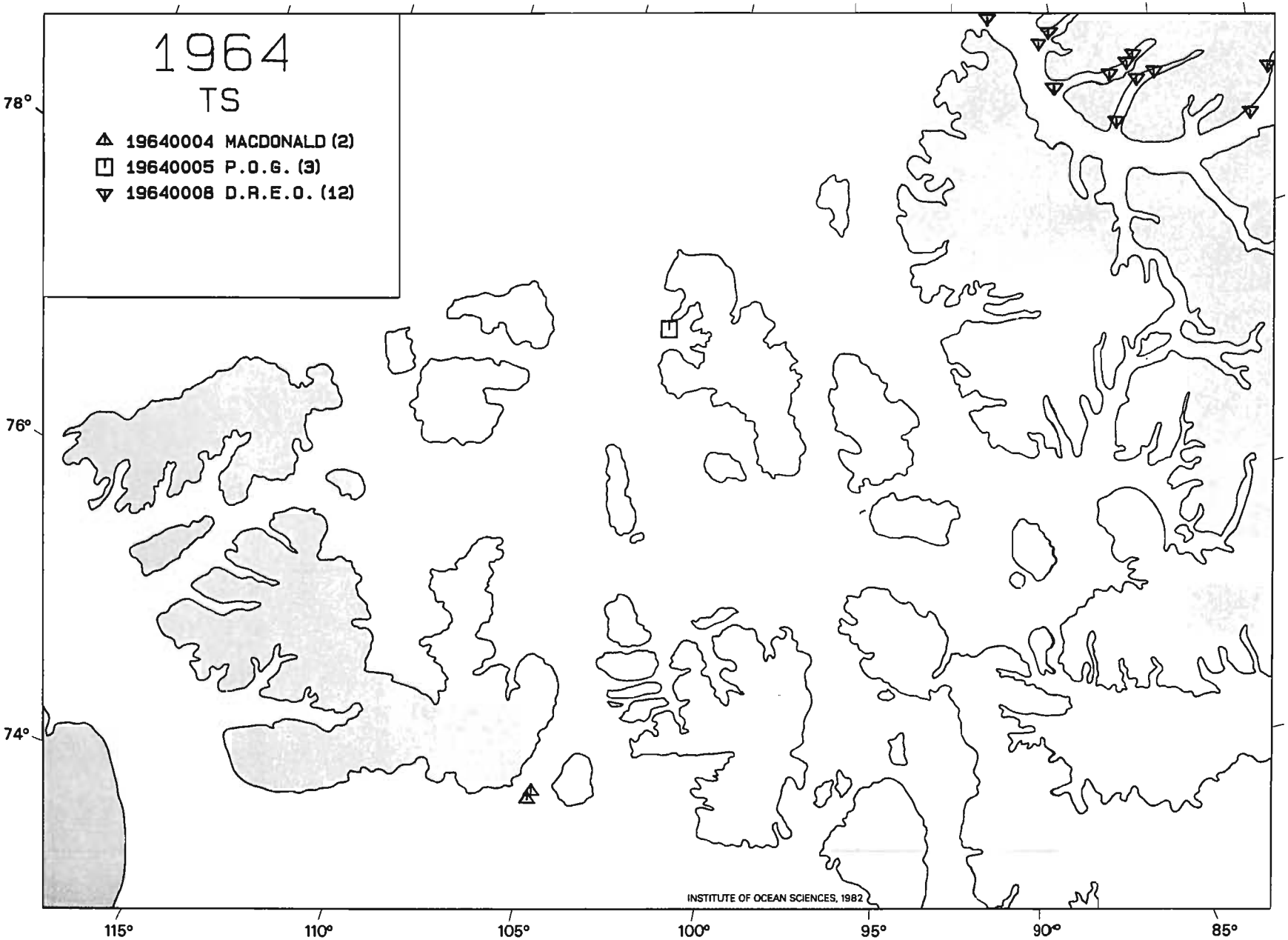
19630010 D.A.E.O. (26)
INSTITUTE OF OCEAN SCIENCES, 1982


1964
TS
19640004 MACDONALD (2)
19640005 P.O.G. (3)
19640008 D.R.E.O. (12)
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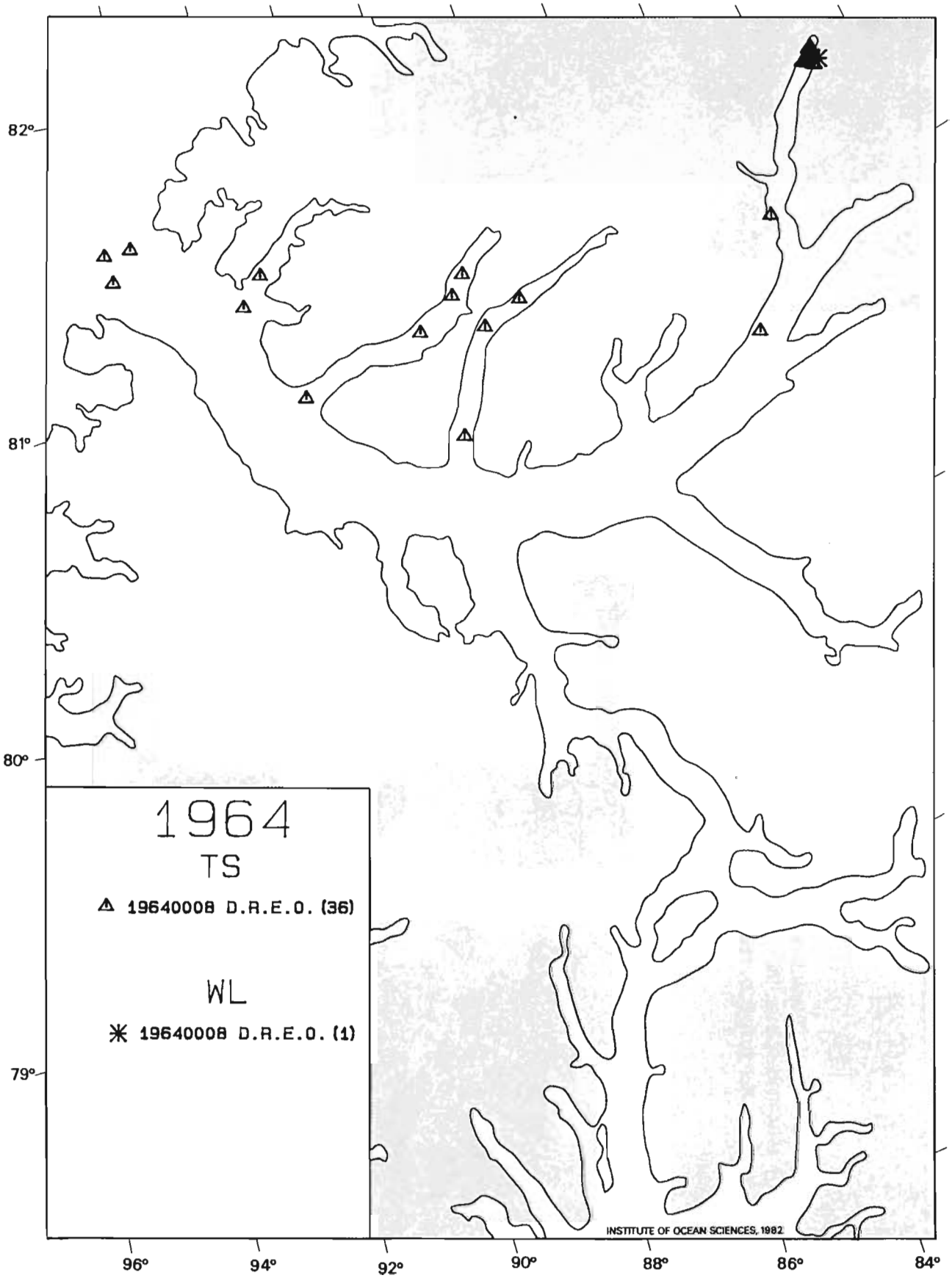
INSTITUTE OF OCEAN SCIENCES, 1982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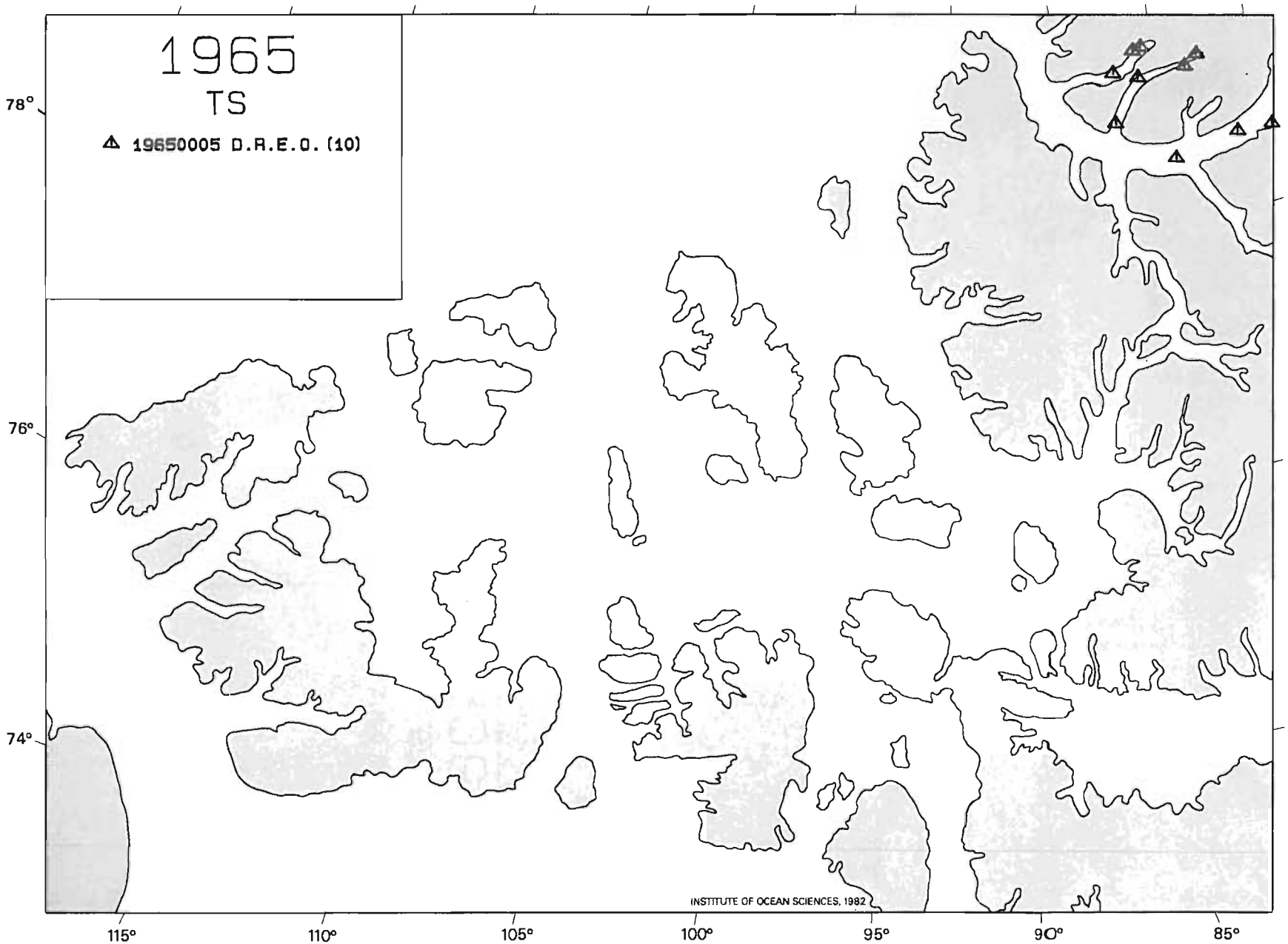
INSTITUTE OF OCEAN SCIENCES, 1982


1965
TS
19650005 D.R.E.O. (10)
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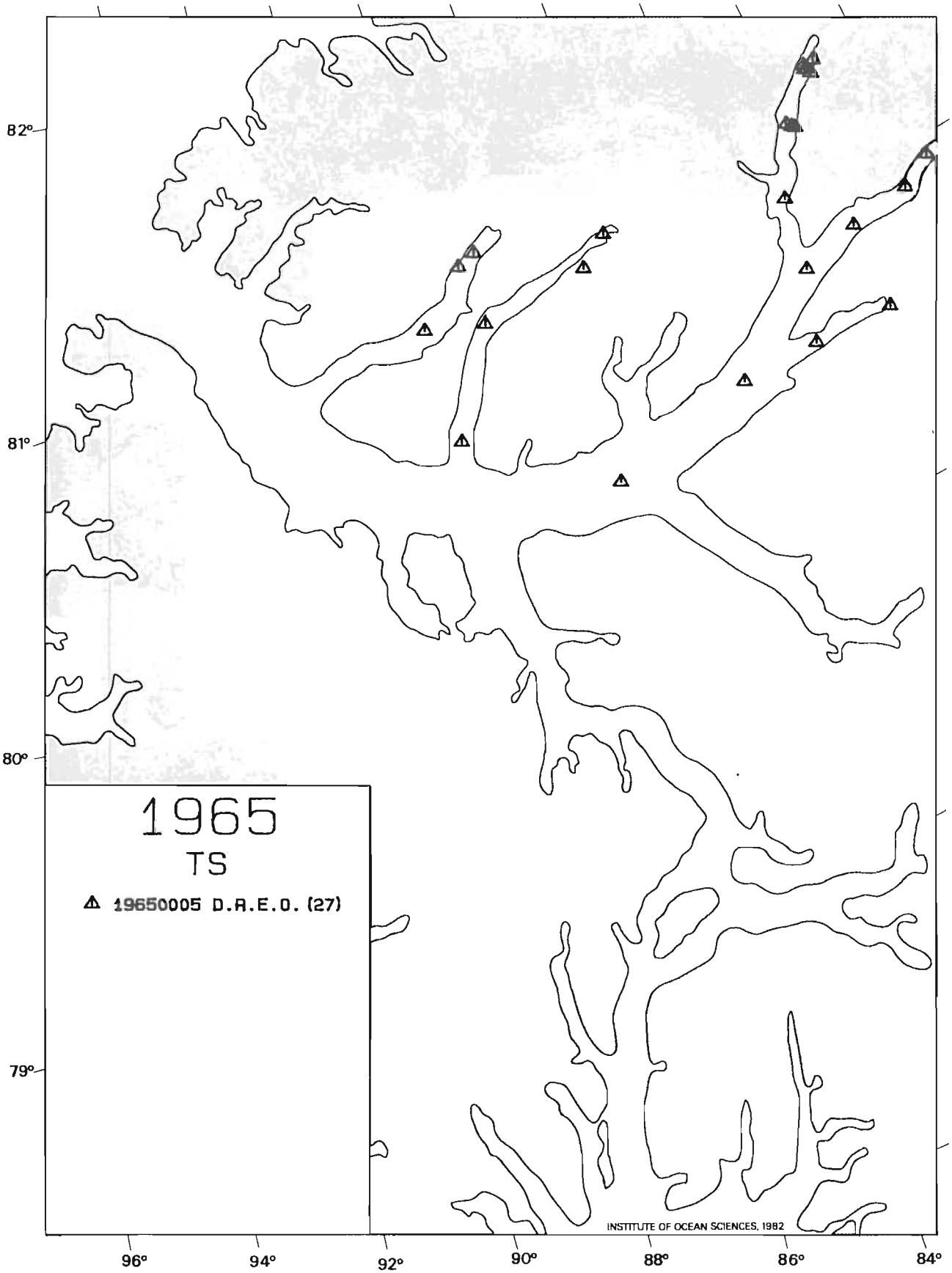
INSTITUTE OF OCEAN SCIENCES, 1982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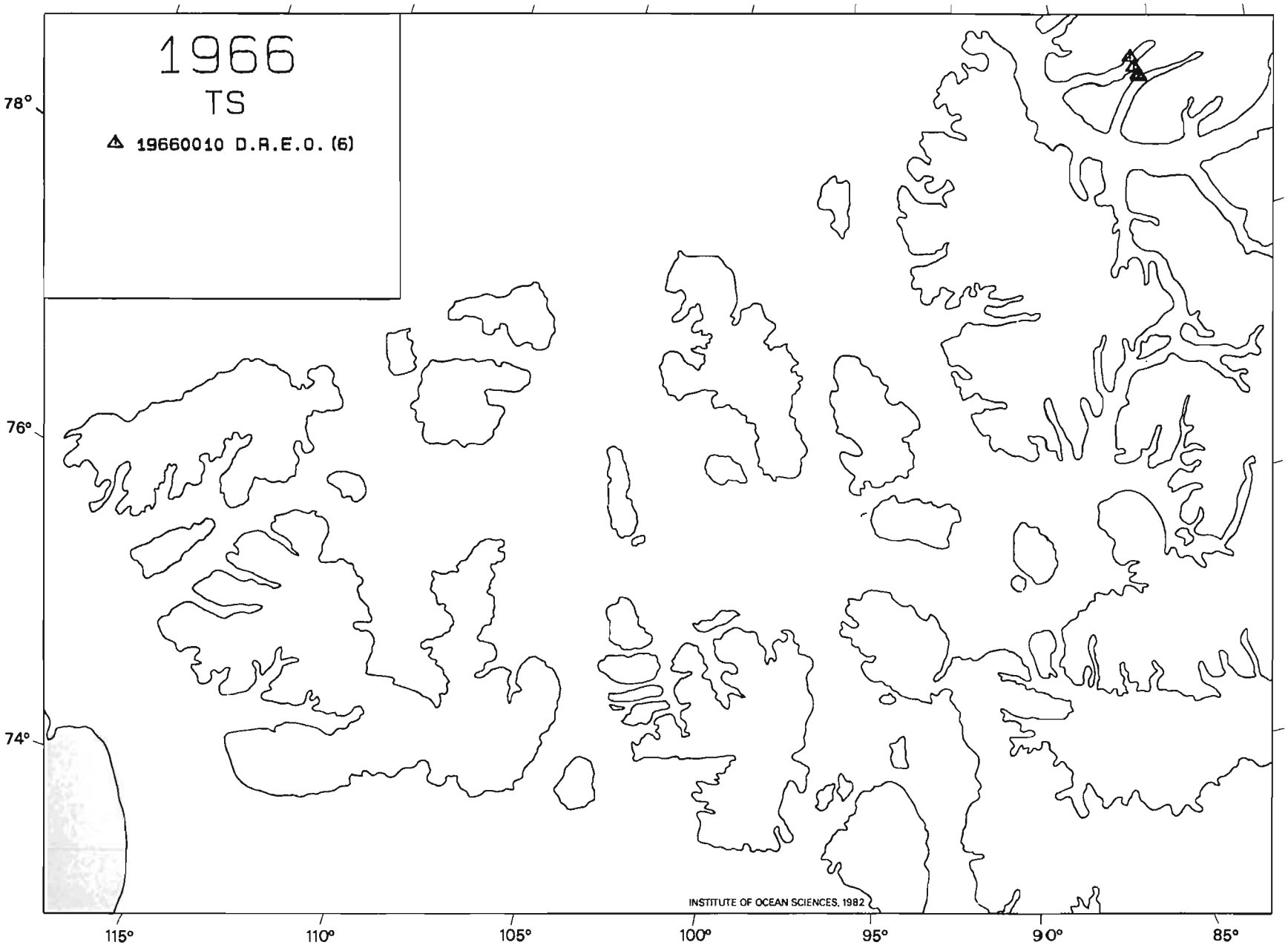
INSTITUTE OF OCEAN SCIENCES, 1982


1966
TS
19660010 D.R.E.O. (6)
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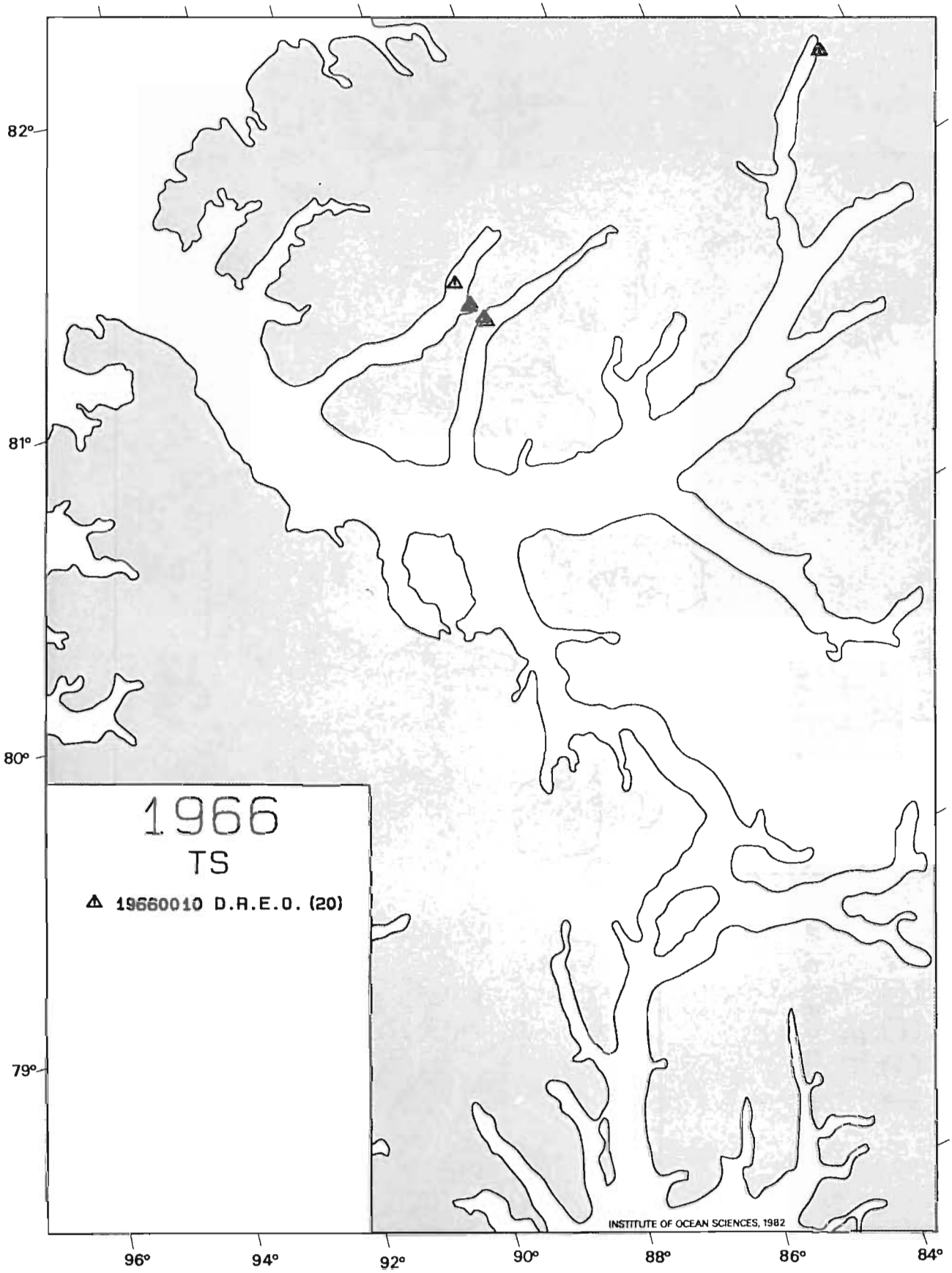
INSTITUTE OF OCEAN SCIENCES, 1982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1966
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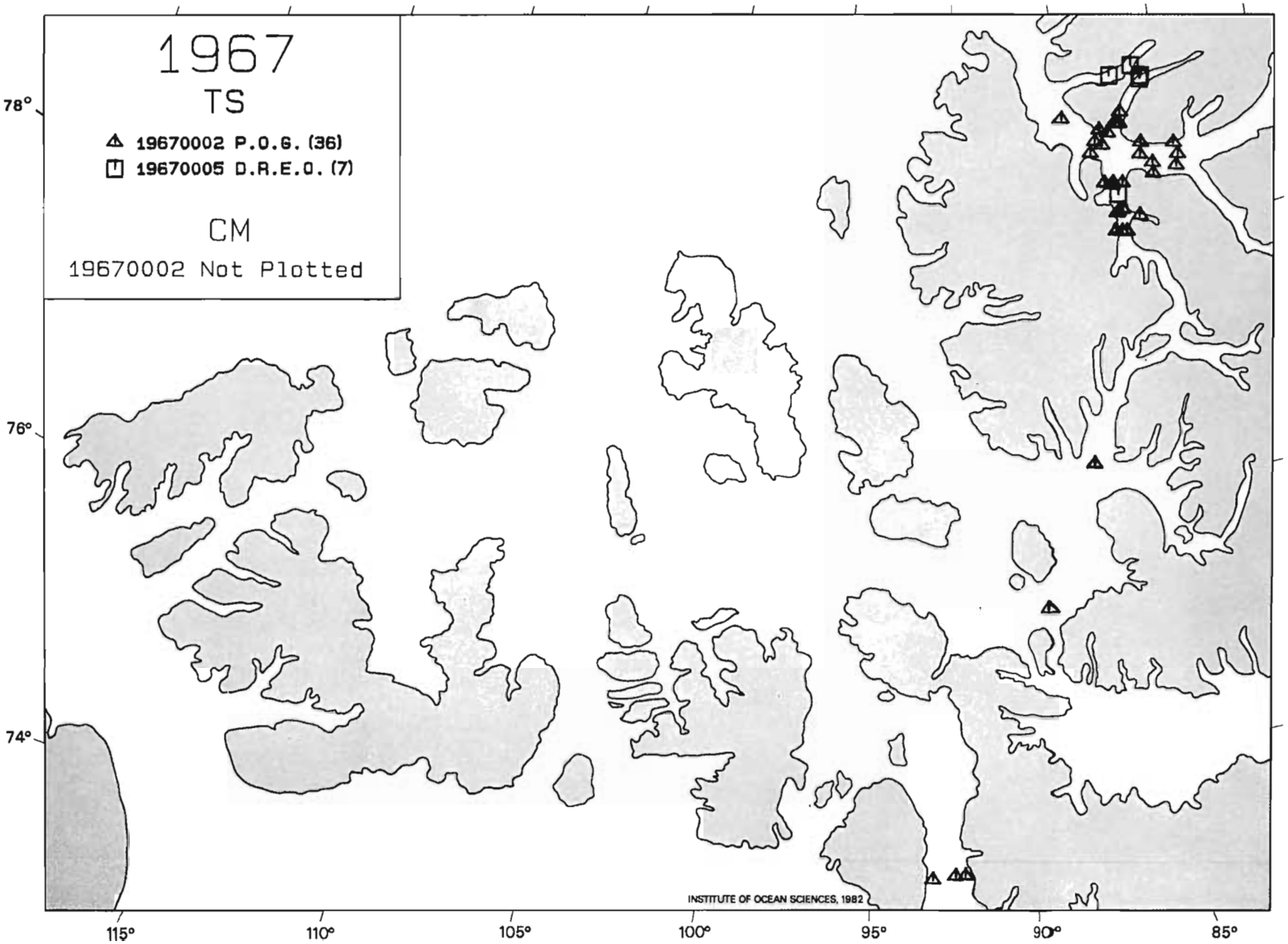
INSTITUTE OF OCEAN SCIENCES, 1982


1967
TS
19670002 P.O.G. (36)
19670005 D.R.E.O. (7)
CM
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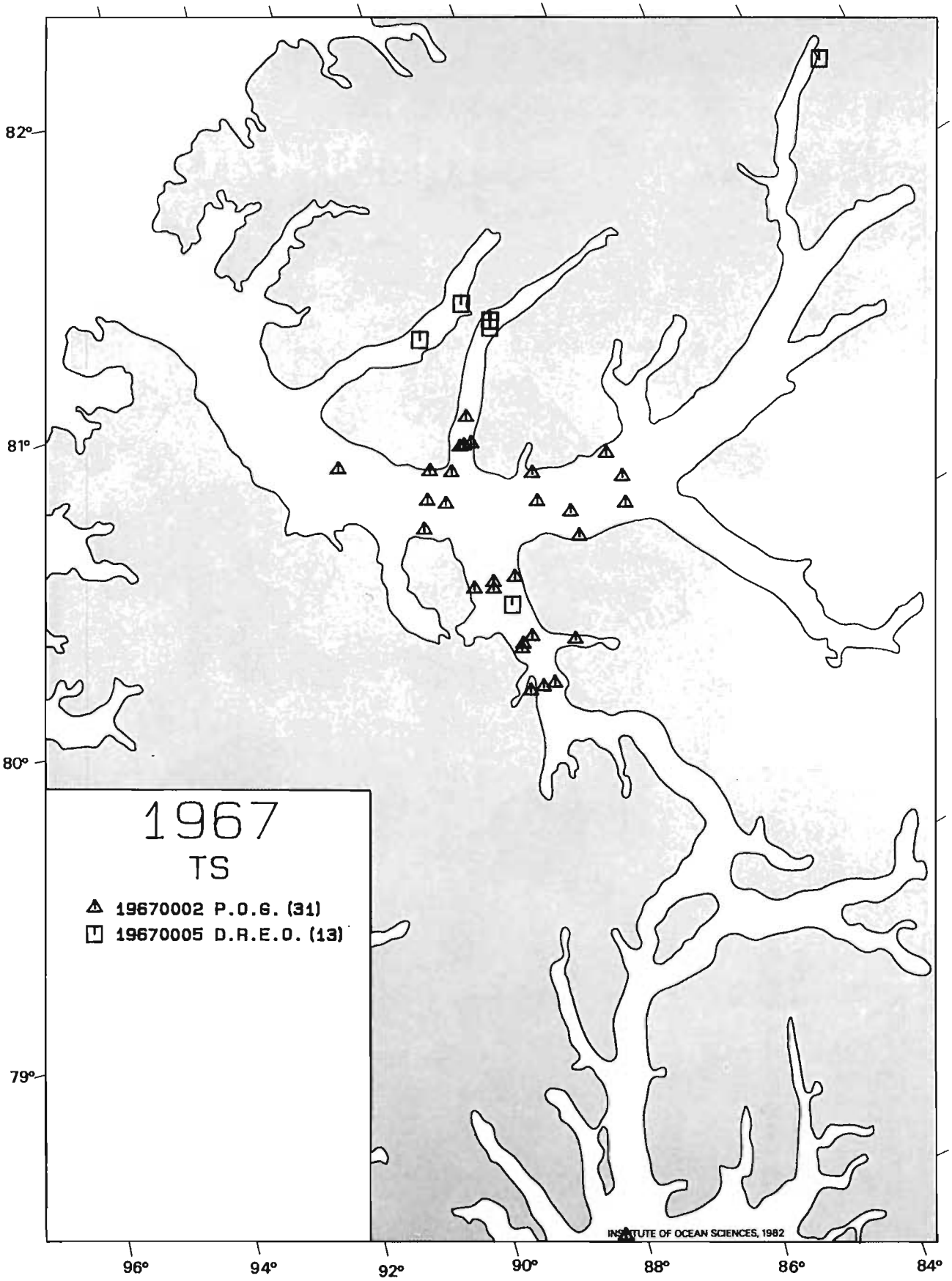
INSTITUTE OF OCEAN SCIENCES, 1982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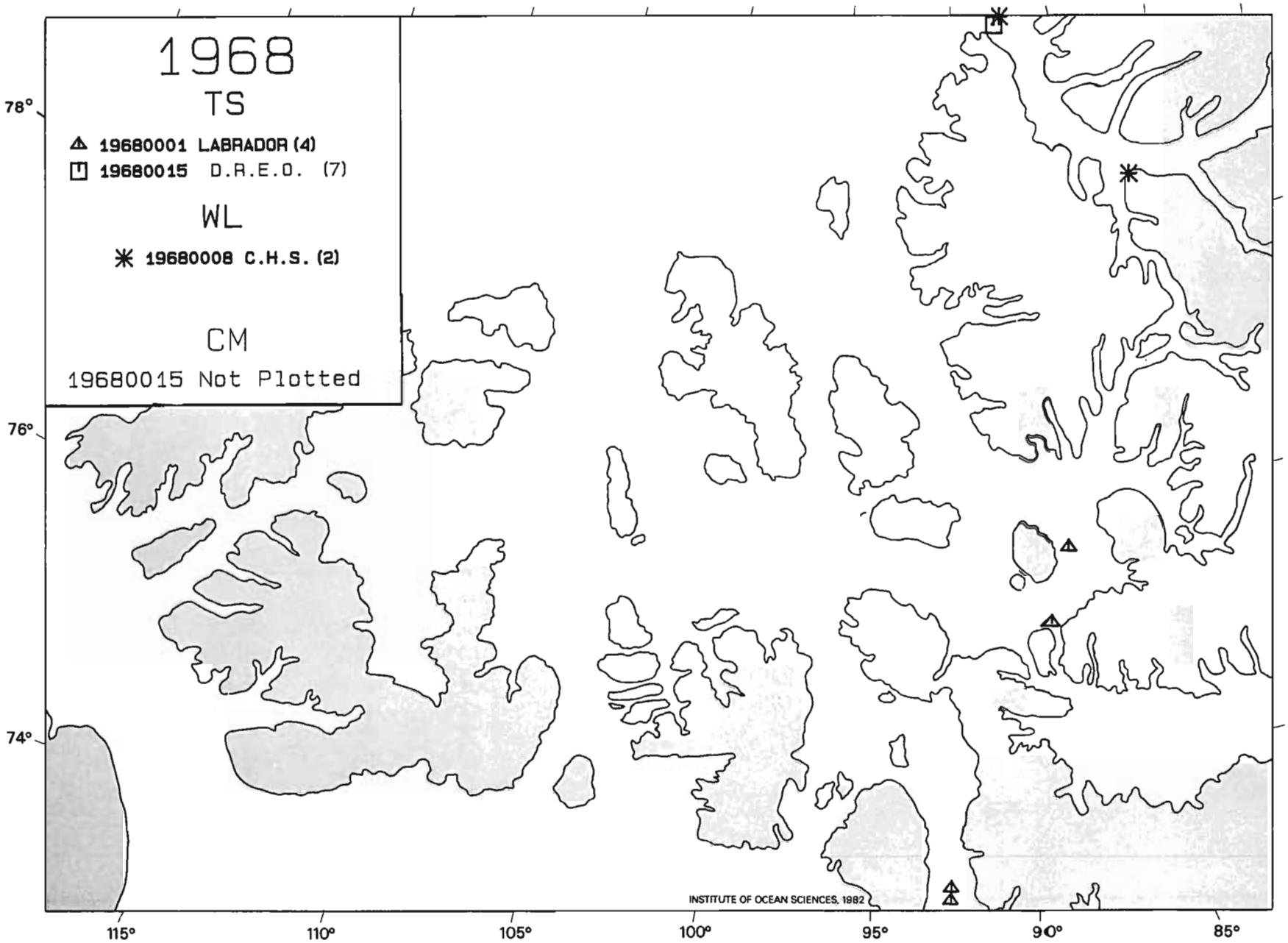
INSTITUTE OF OCEAN SCIENCES, 1982


1968
TS
19680001 LABRADOR (4)
19680015 D.R.E.O. (7)
WL
19680008 C.H.S. (2)
CM
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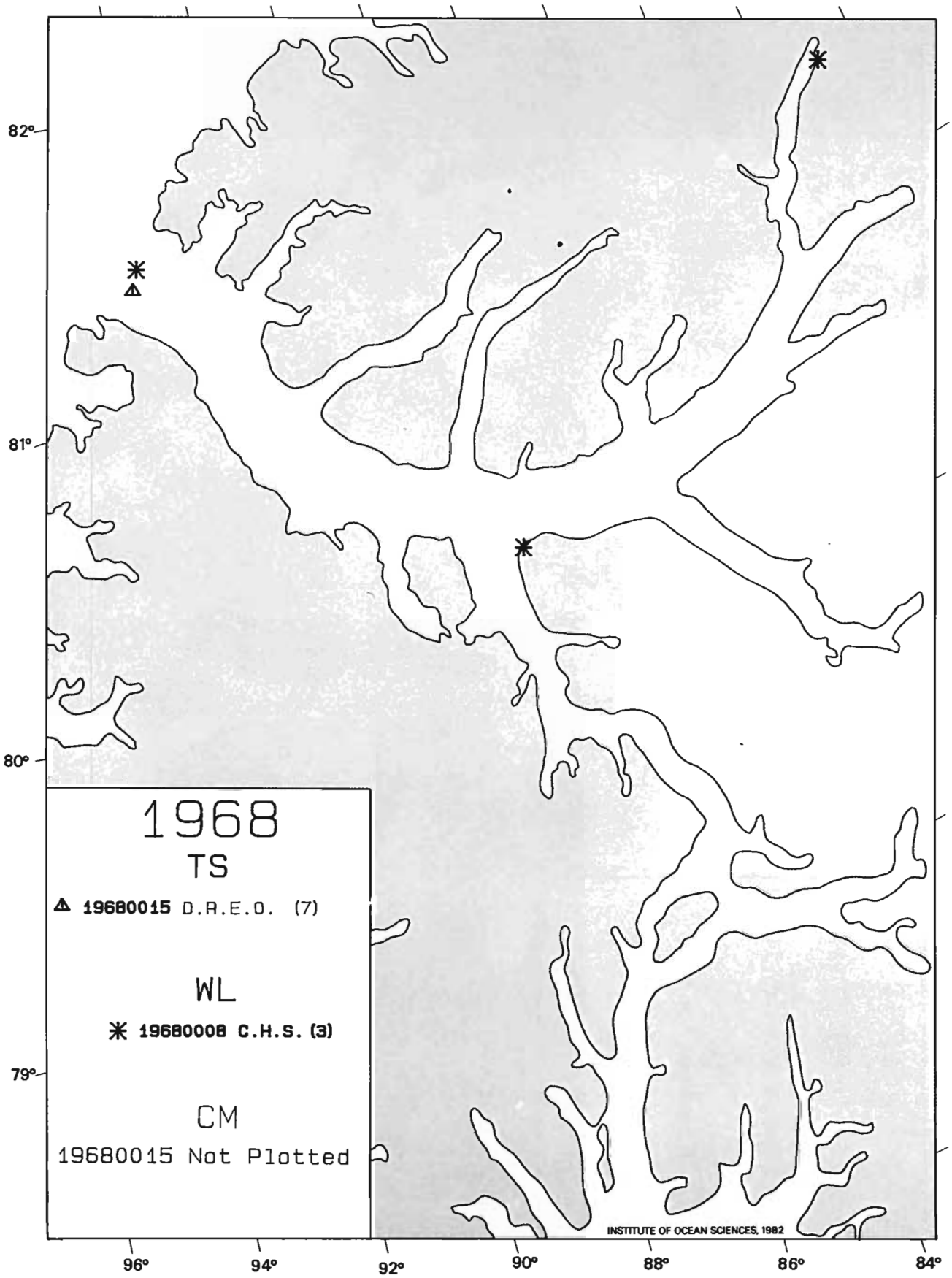
INSTITUTE OF OCEAN SCIENCES, 1982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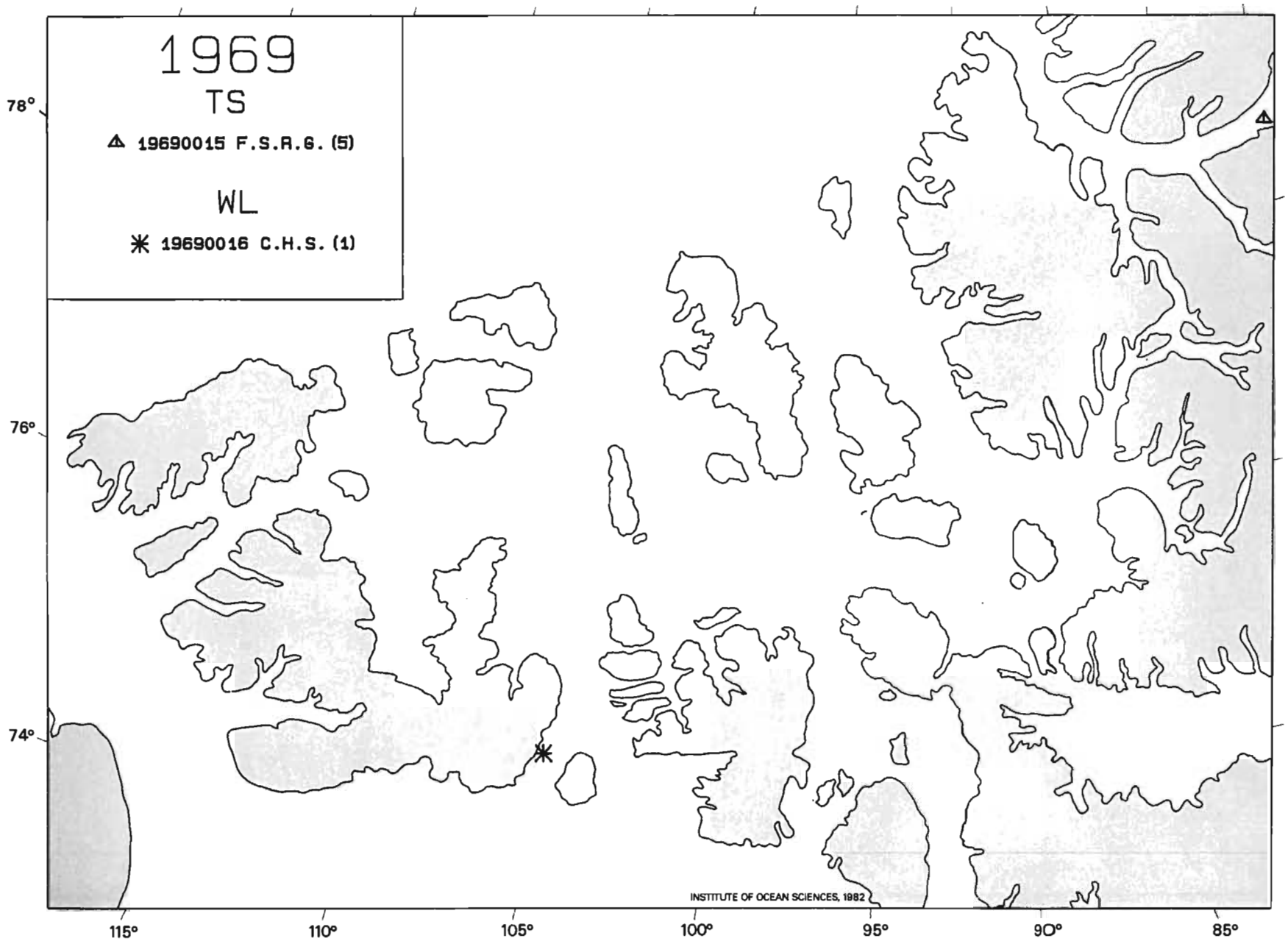
INSTITUTE OF OCEAN SCIENCES, 1982


1969
TS
19690015 F.S.R.G. (5)
WL
19690016 C.H.S. (1)
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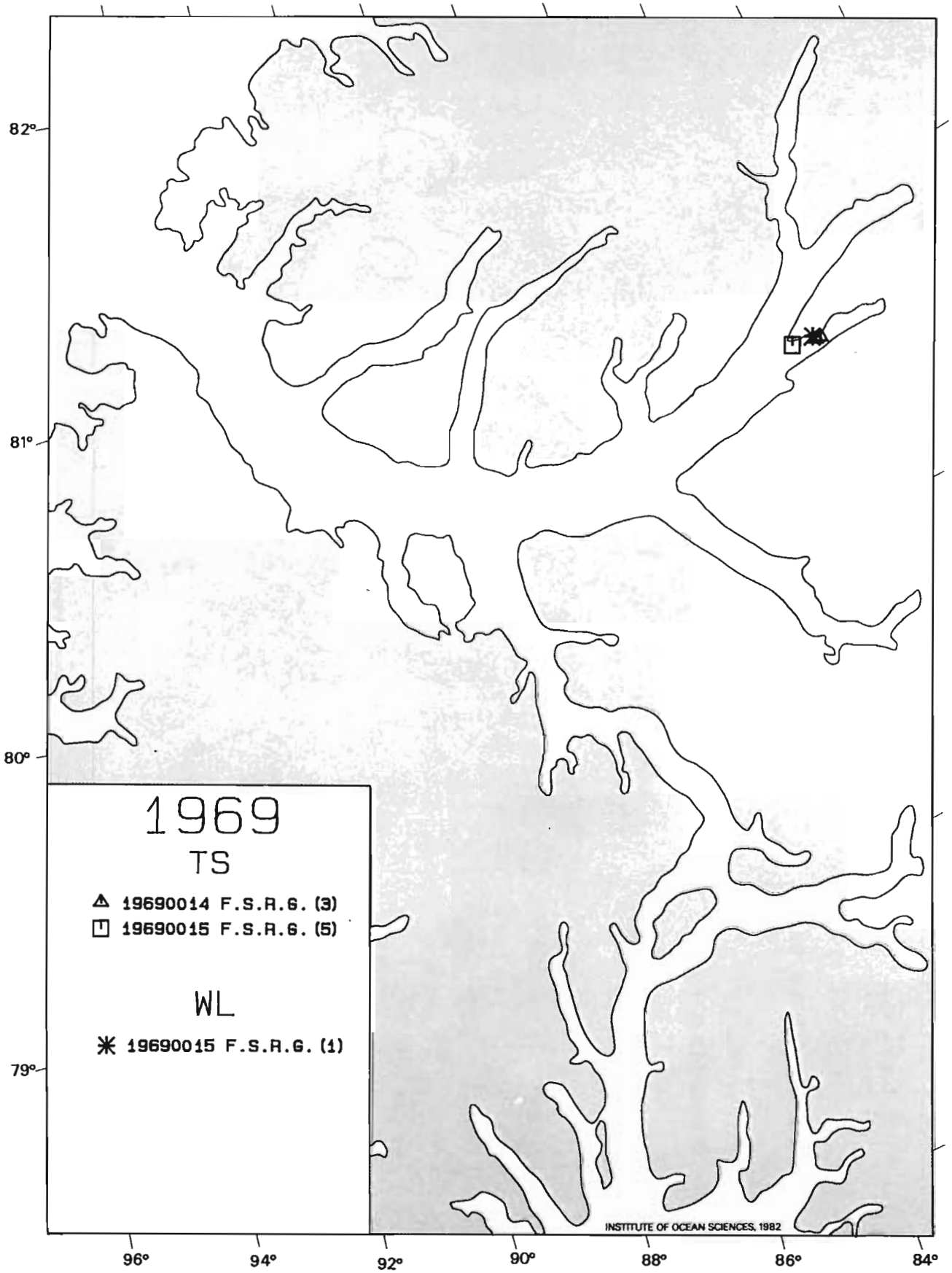
INSTITUTE OF OCEAN SCIENCES, 1982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1969
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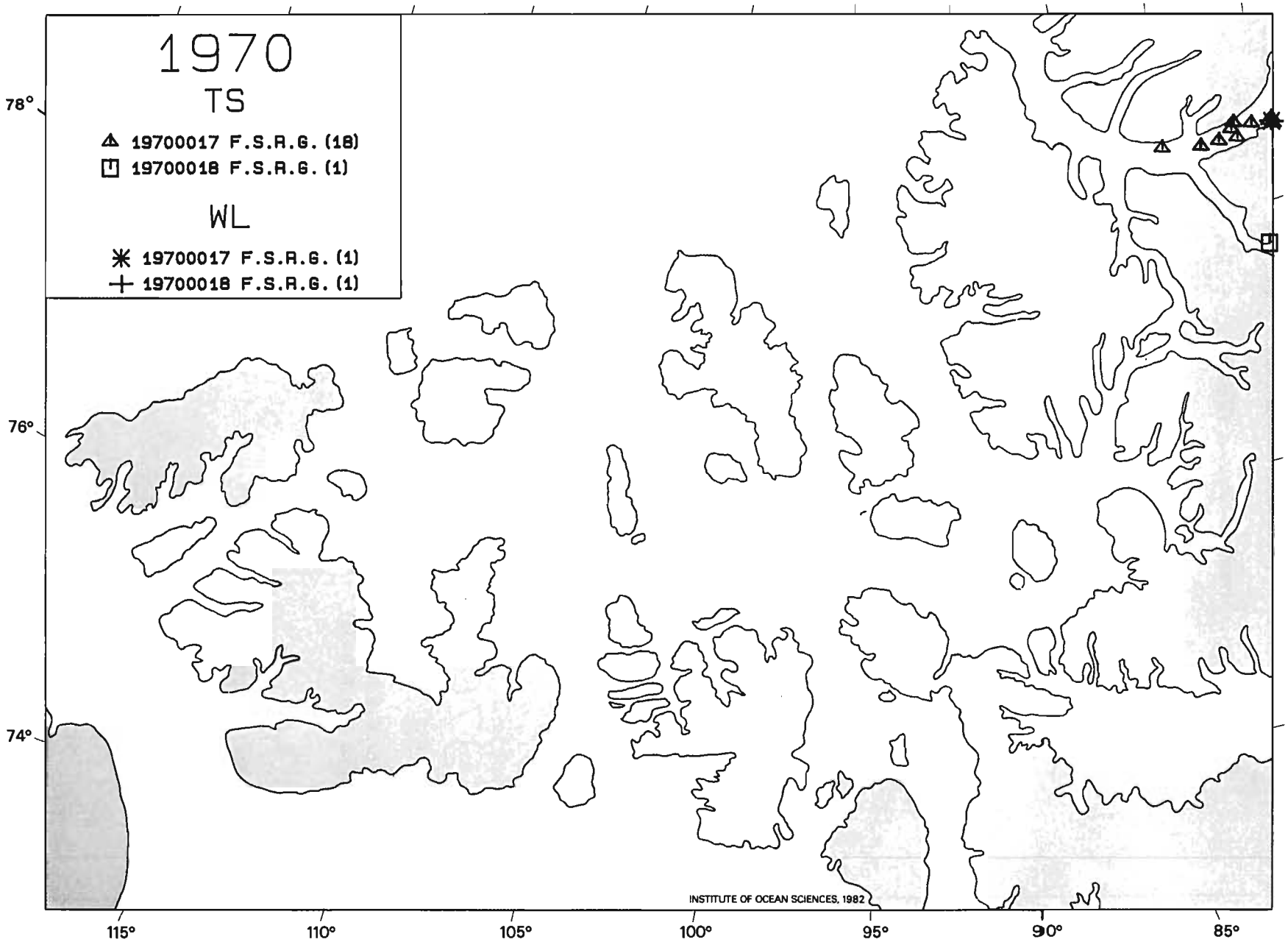
INSTITUTE OF OCEAN SCIENCES, 1982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WL
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19700018 F.S.R.G. (1)
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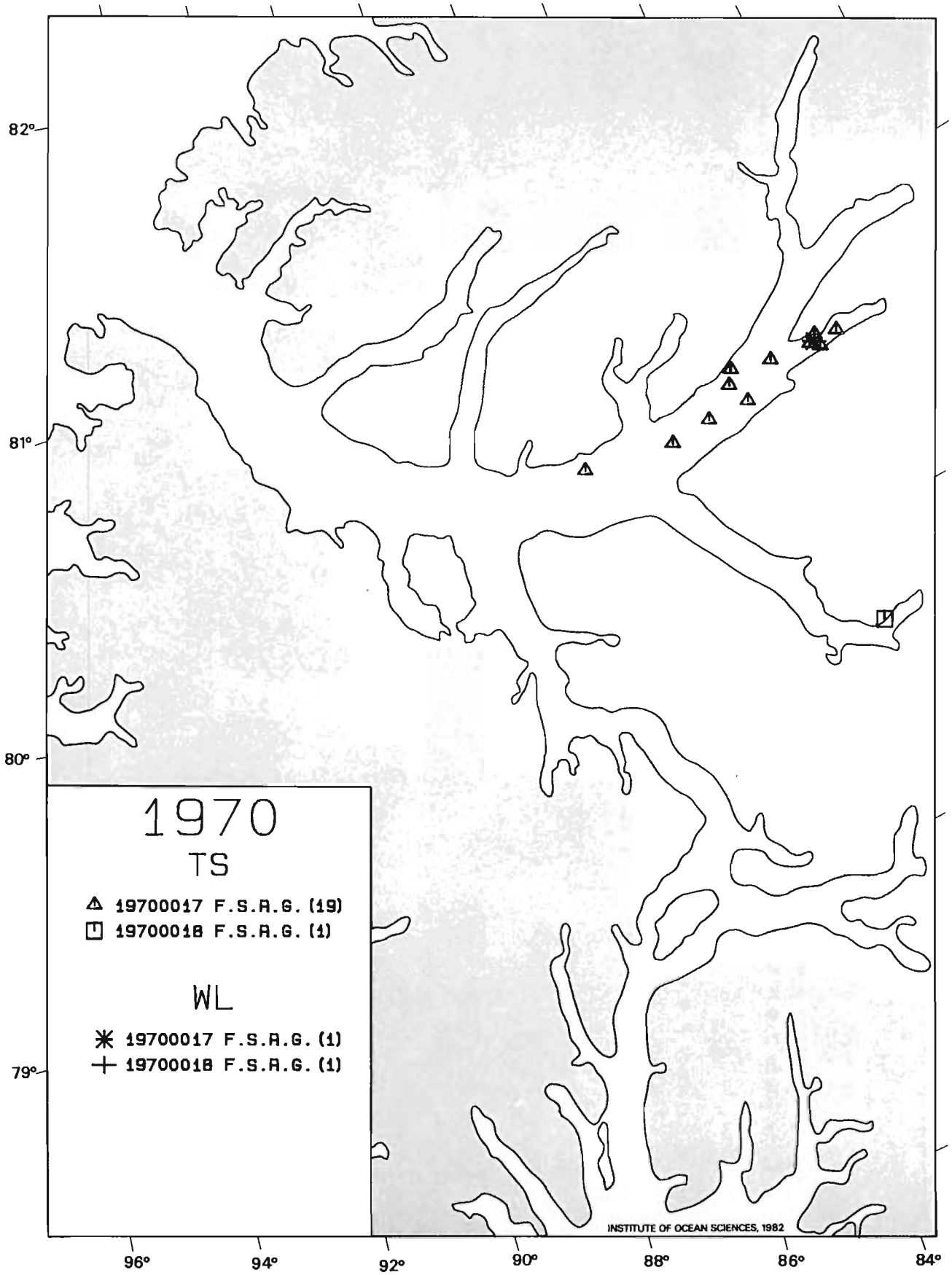
INSTITUTE OF OCEAN SCIENCES, 1982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1970
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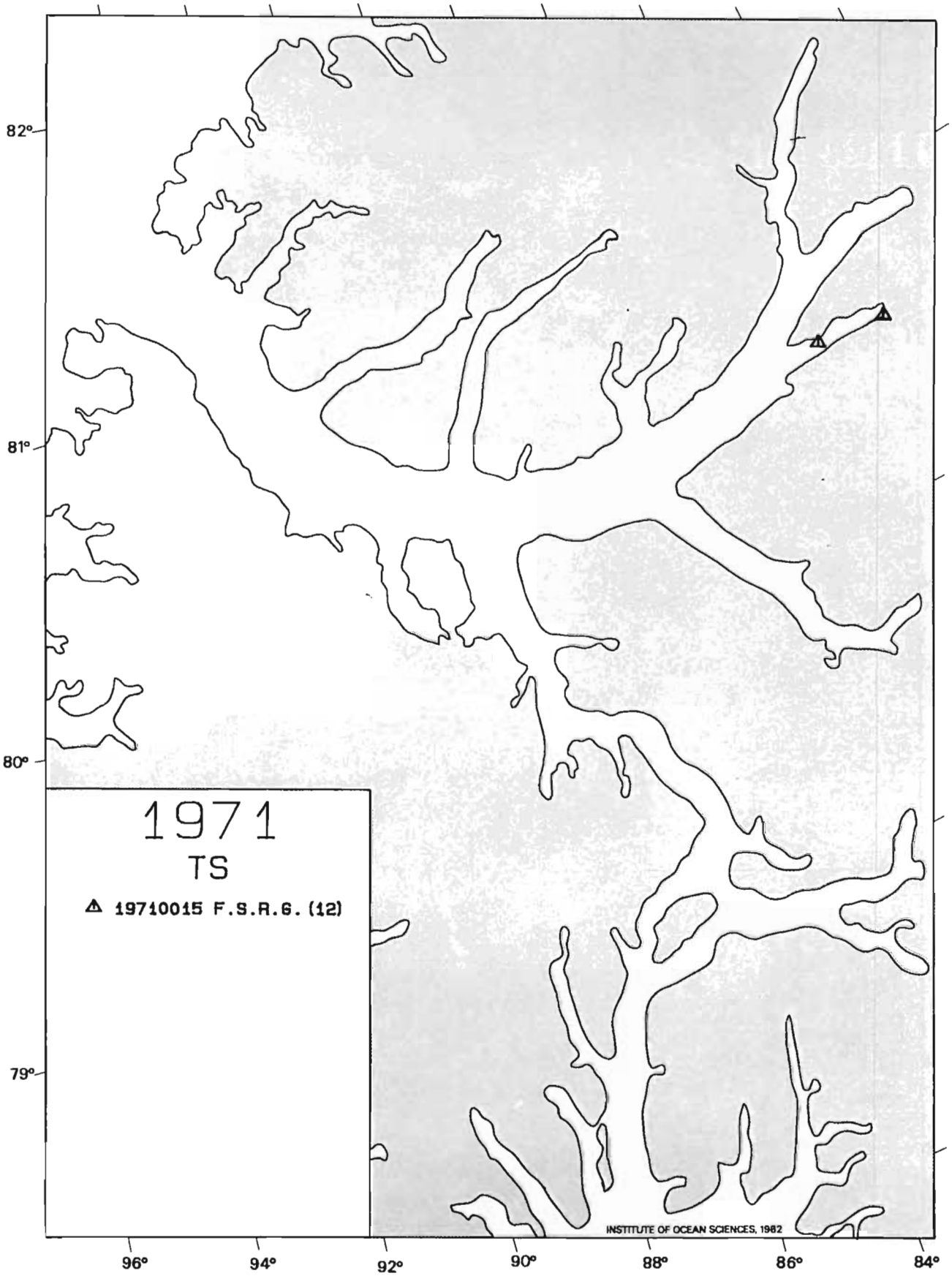
INSTITUTE OF OCEAN SCIENCES, 1982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1971
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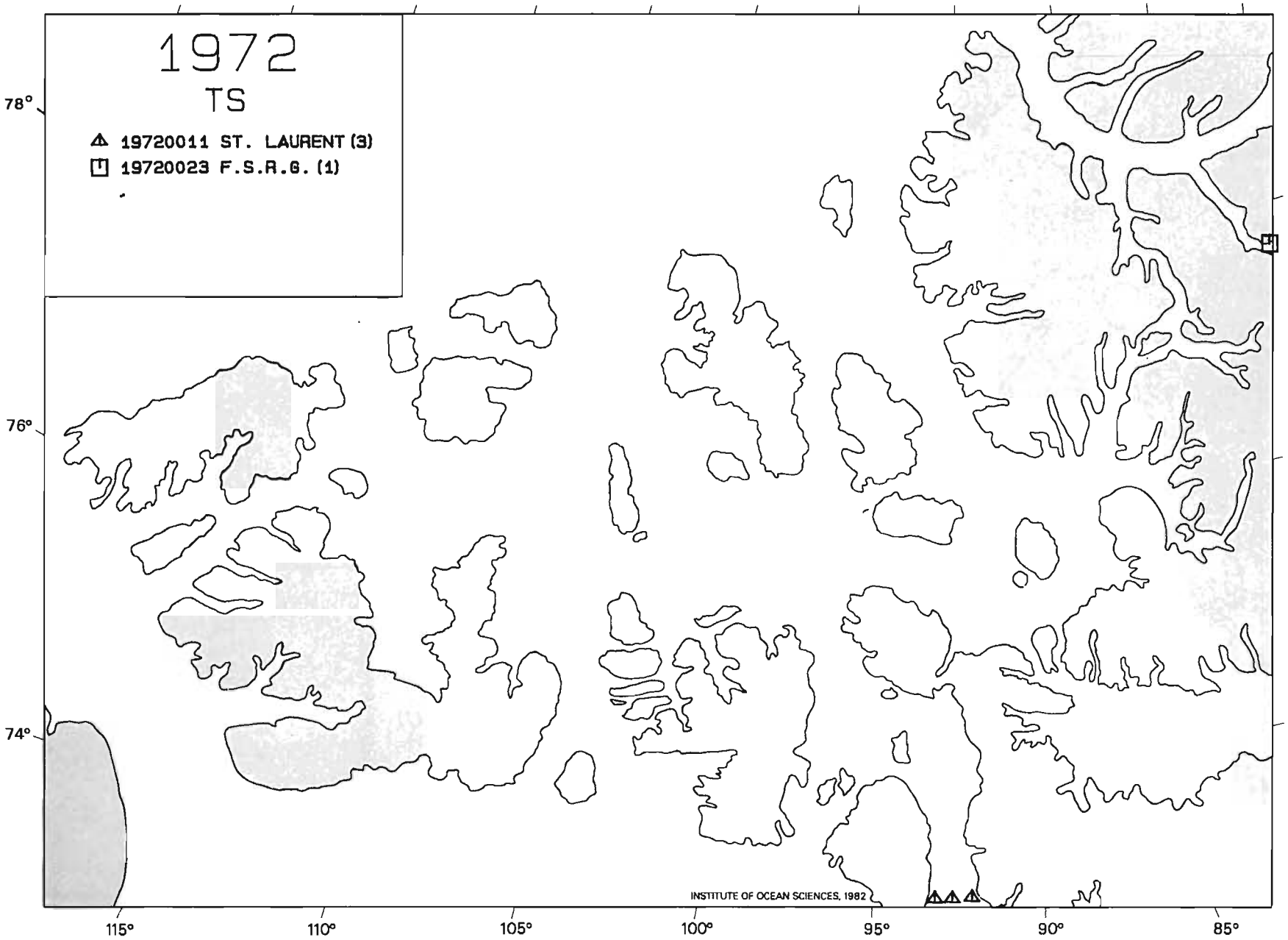
INSTITUTE OF OCEAN SCIENCES, 1982


1972
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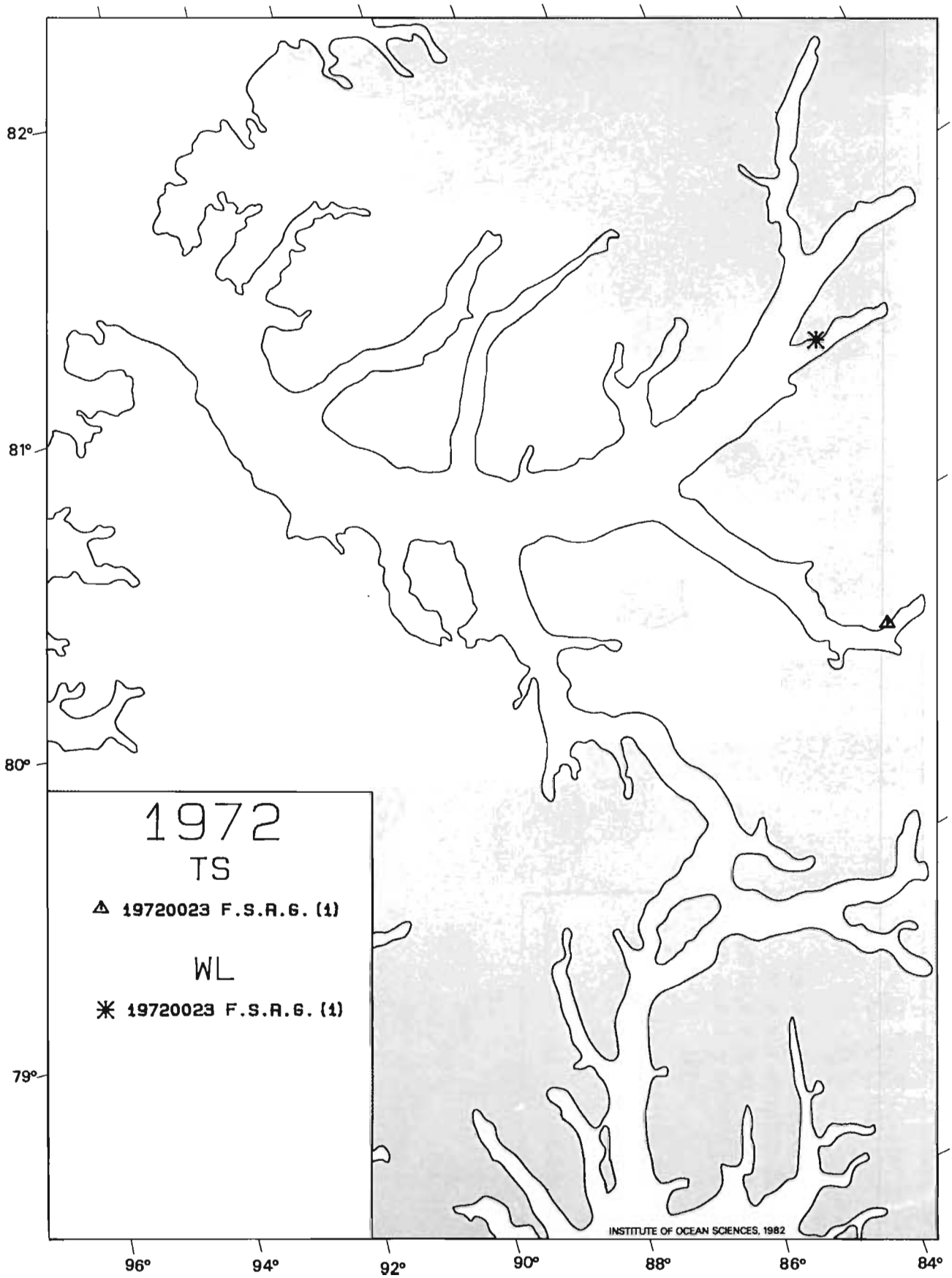
INSTITUTE OF OCEAN SCIENCES, 1982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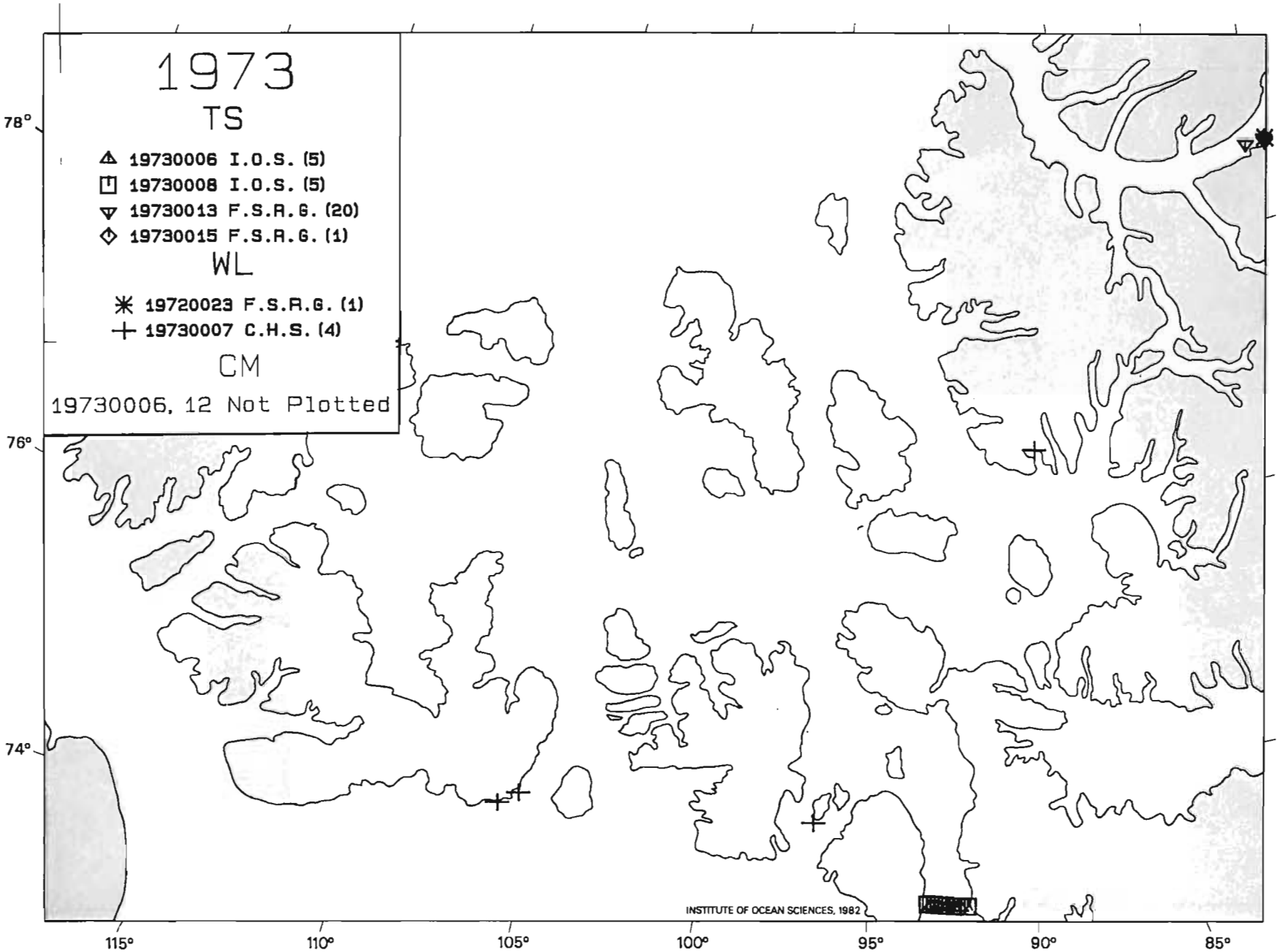
INSTITUTE OF OCEAN SCIENCES, 1982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19730013 F.S.R.G. (20)
19730015 F.S.R.G. (1)
WL
19720023 F.S.R.G. (1)
19730007 C.H.S. (4)
CM
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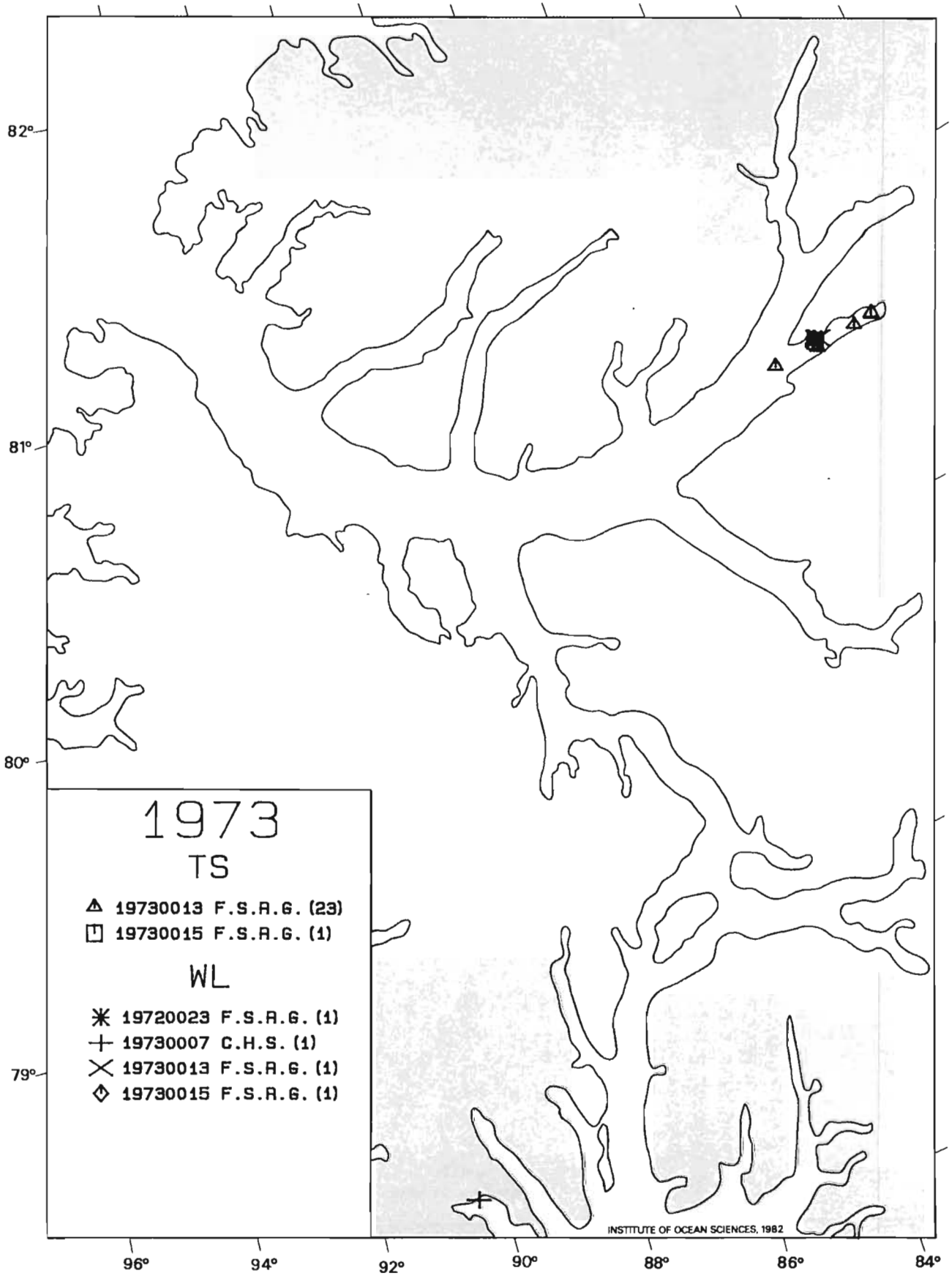
INSTITUTE OF OCEAN SCIENCES, 1982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1973
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19730015 F.S.A.G. (1)
WL
19720023 F.S.A.G. (1)
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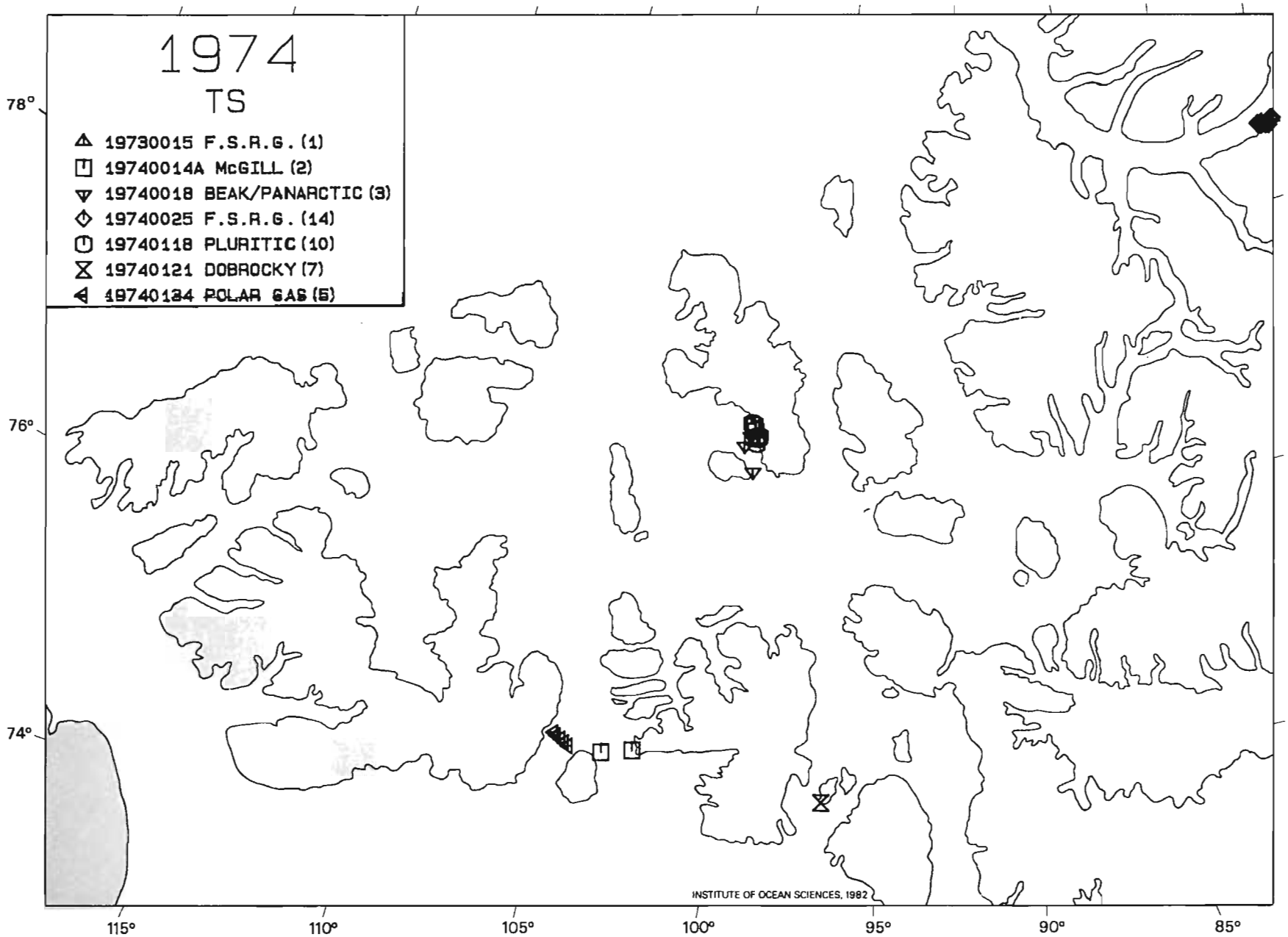
INSTITUTE OF OCEAN SCIENCES, 1982


1974
TS
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19740018 BEAK/PANARCTIC (3)
19740025 F.S.R.G. (14)
19740118 PLURITIC (10)
19740121 DOBROCKY (7)
19740124 POLAR GAS (5)
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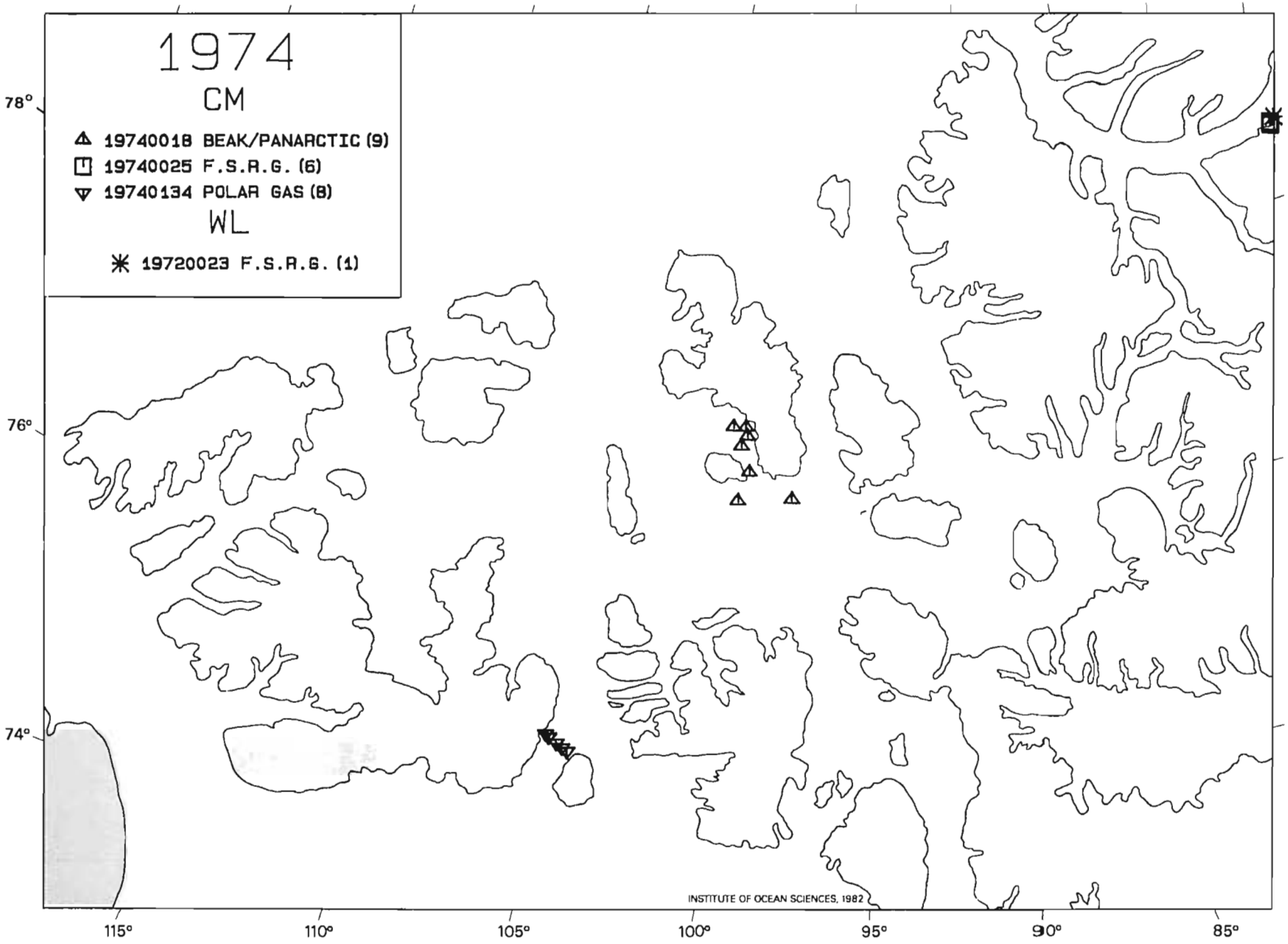
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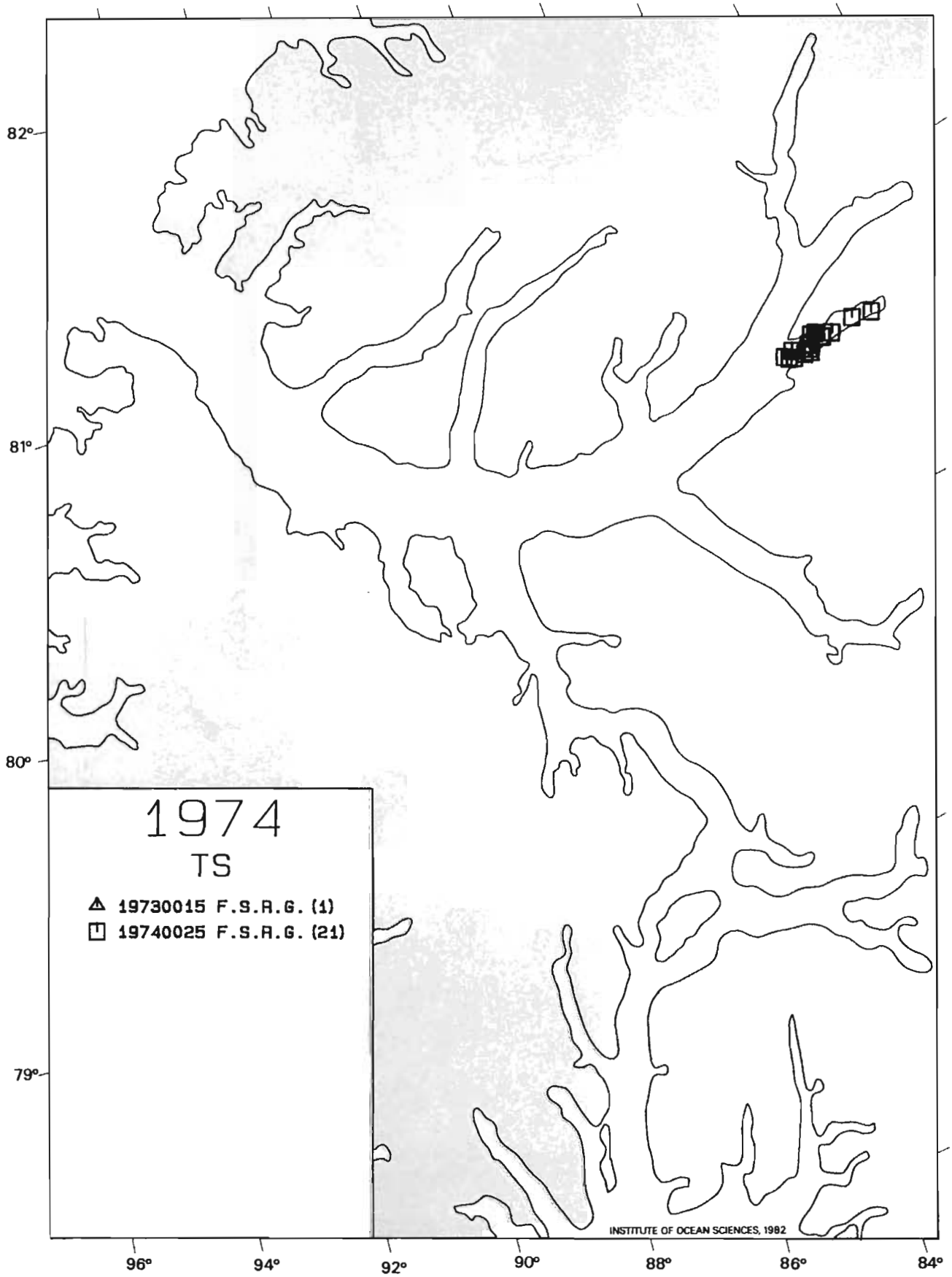
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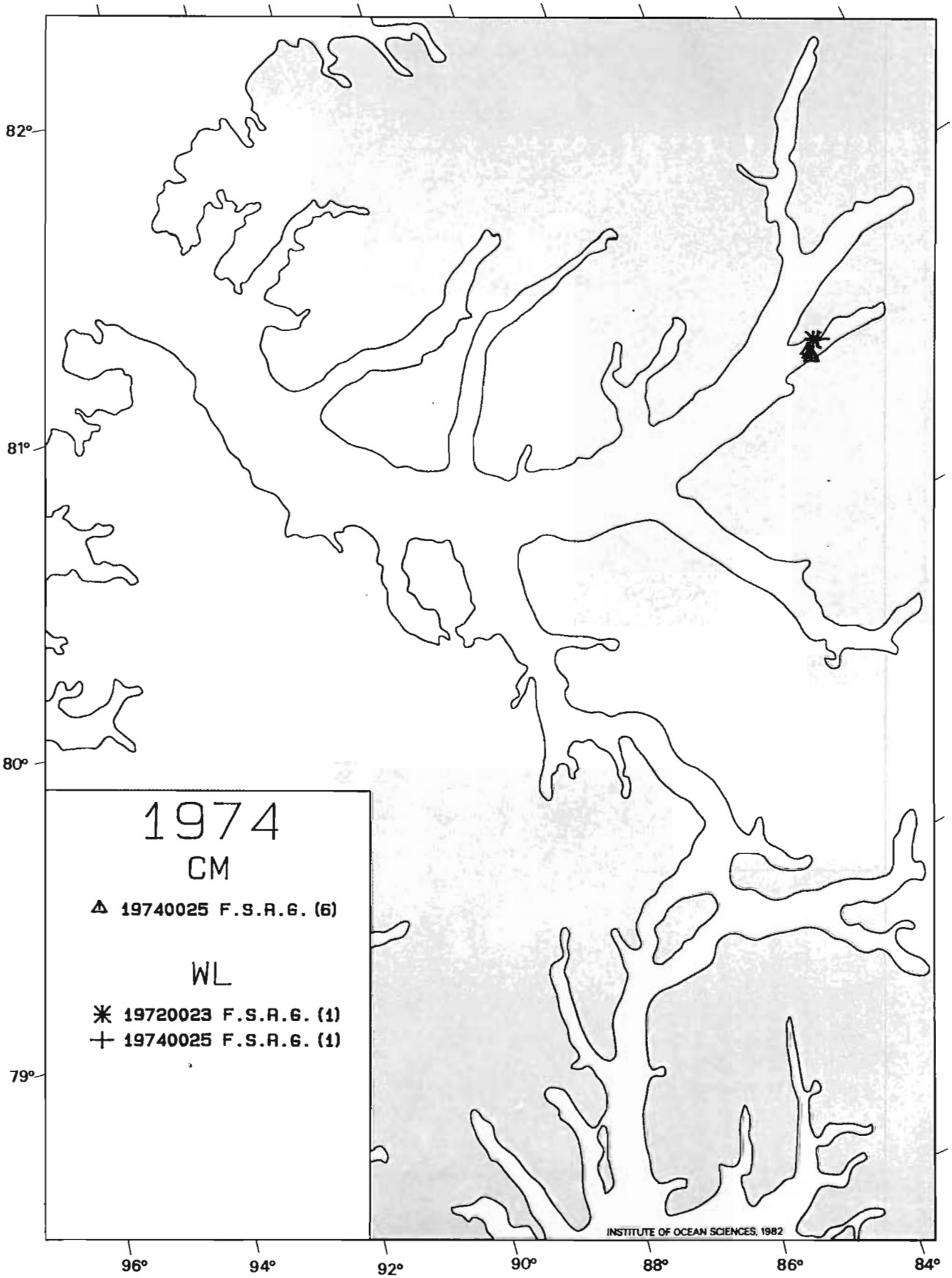
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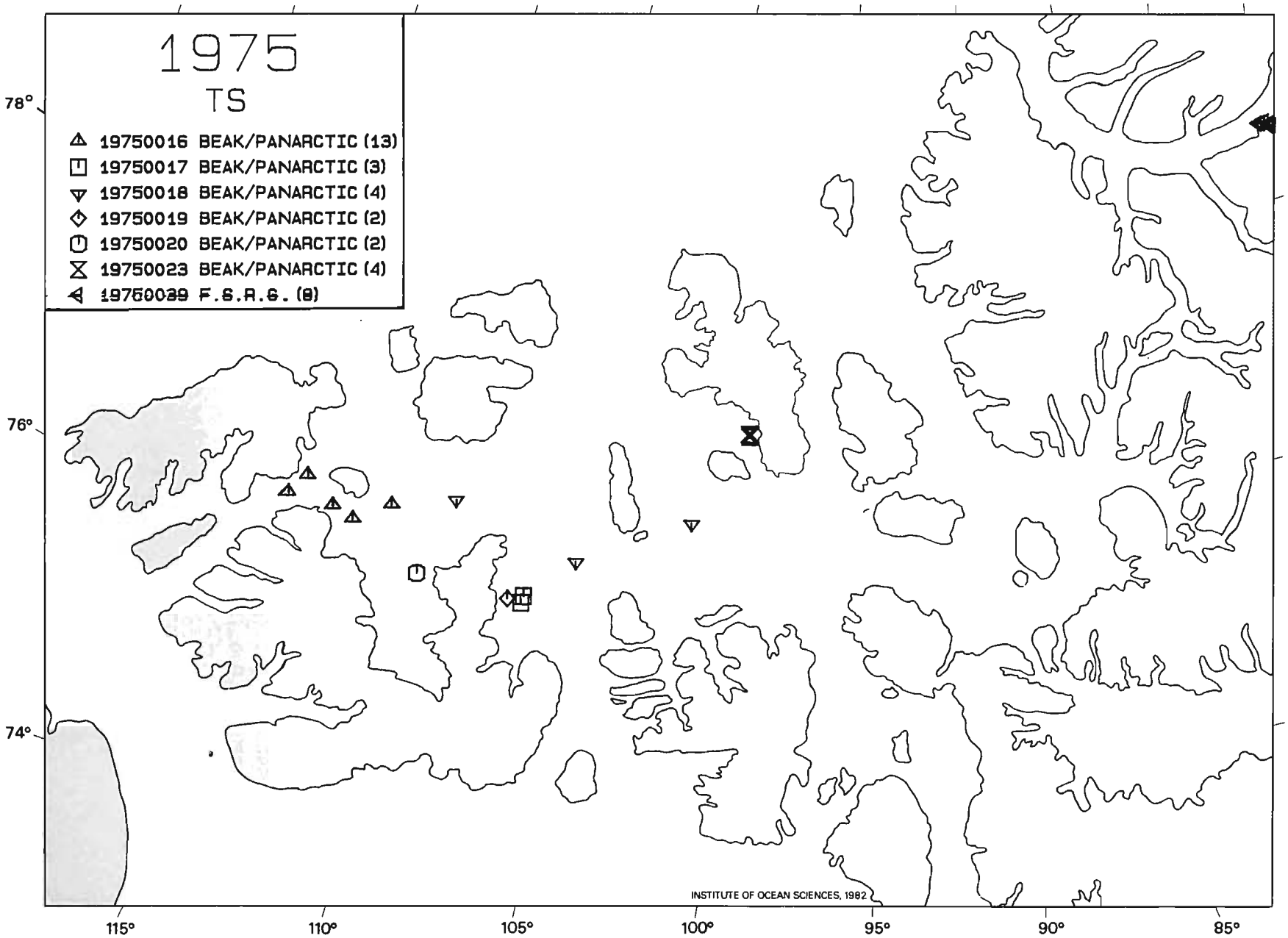
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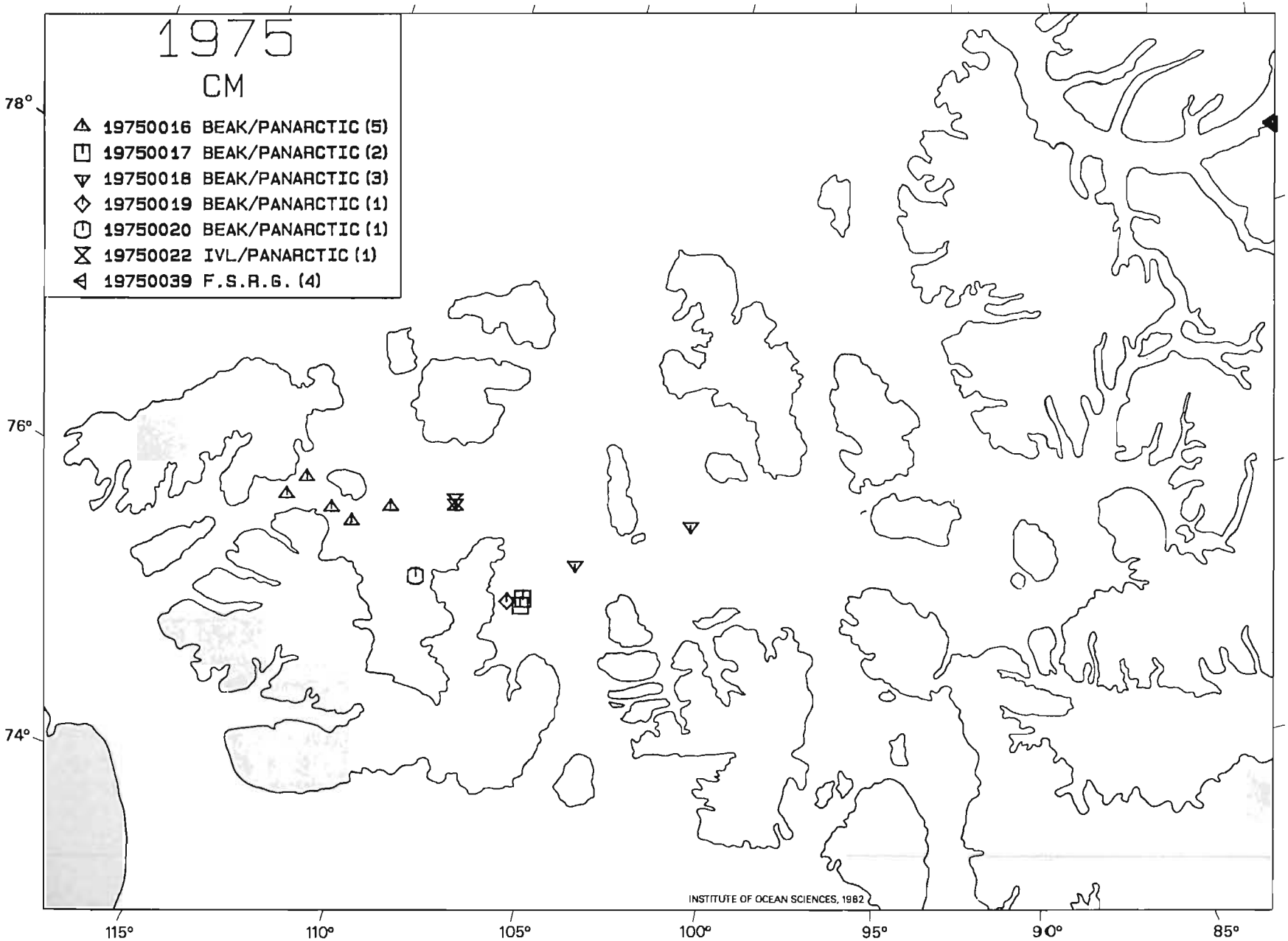
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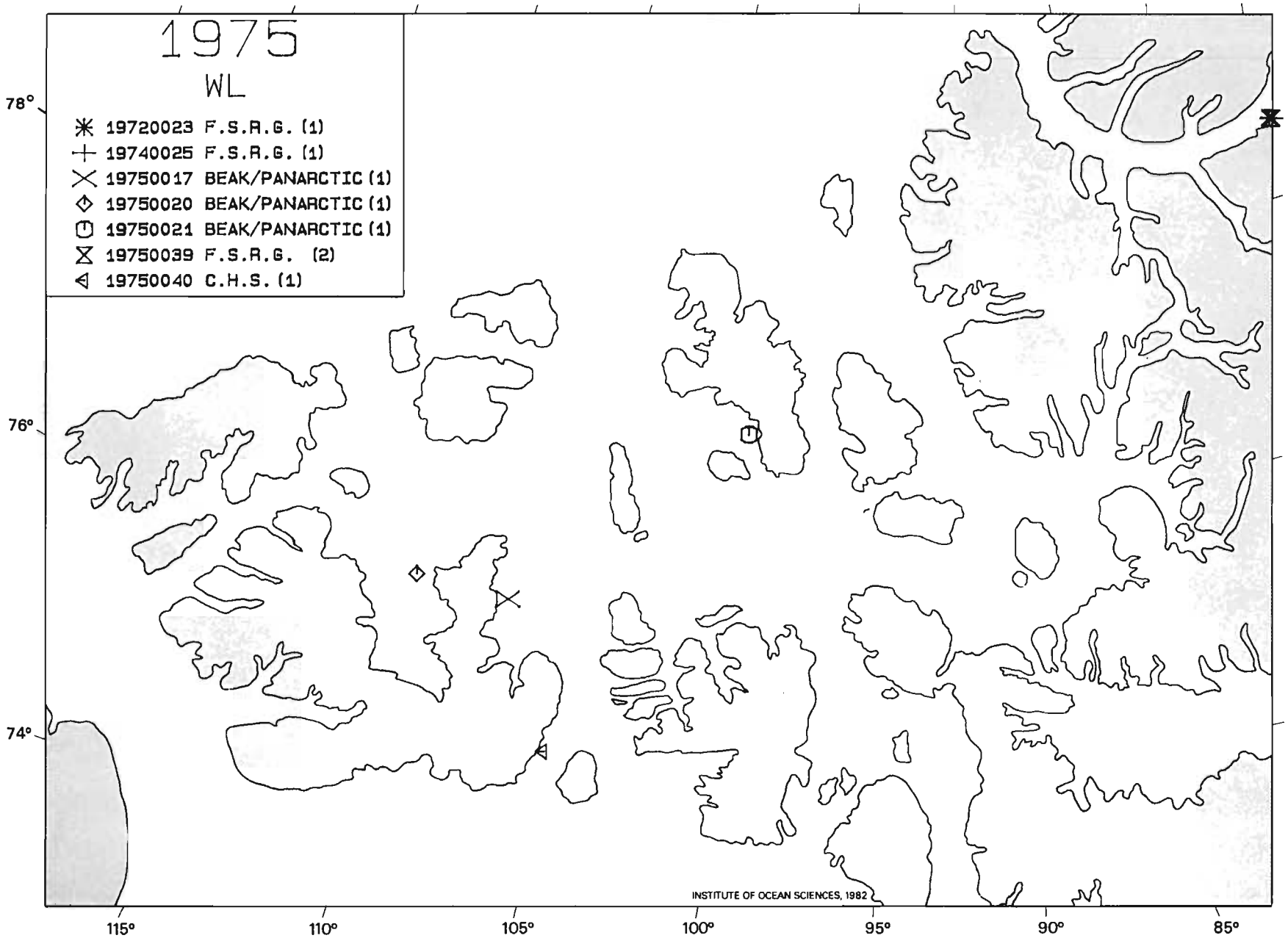
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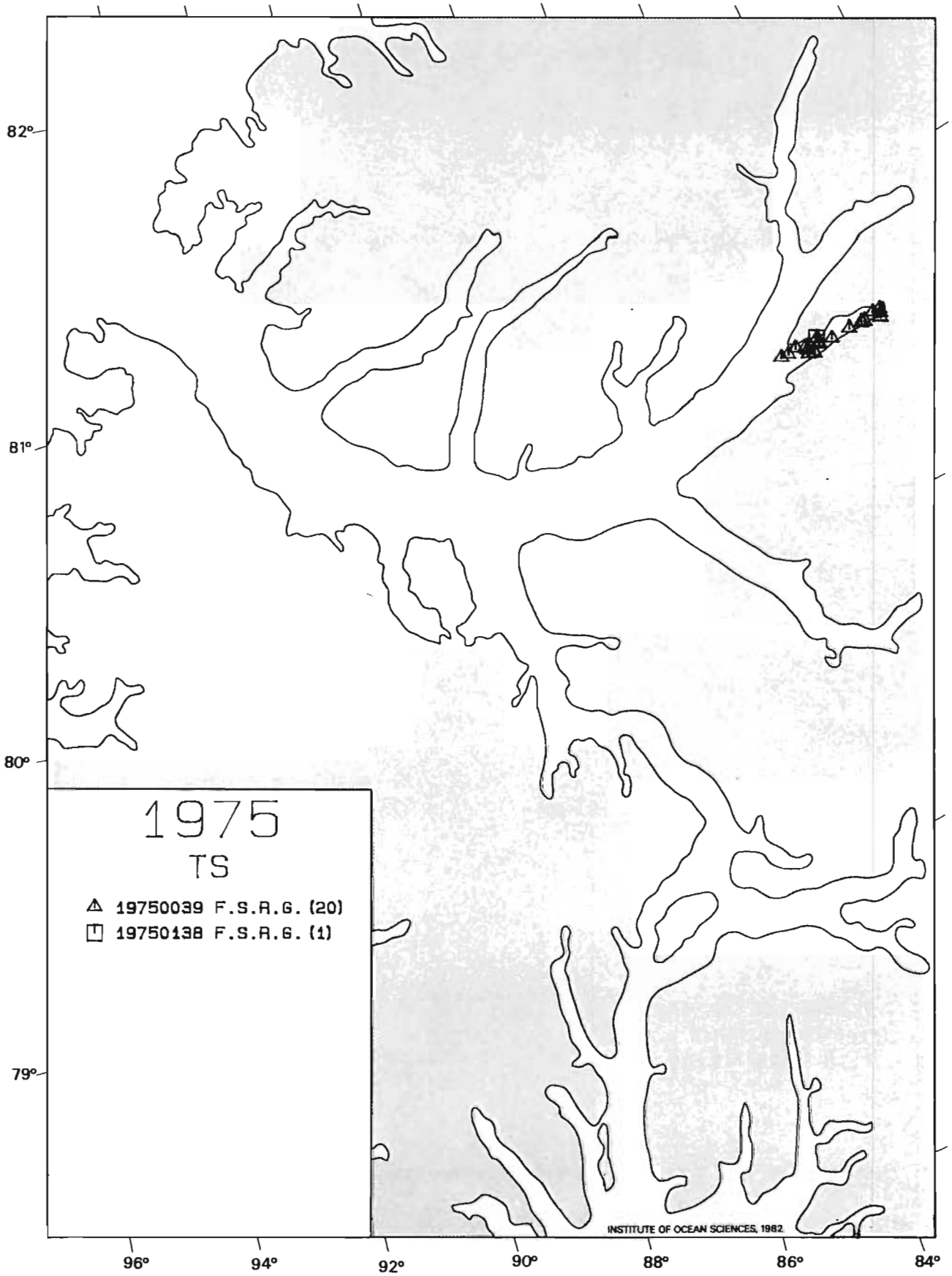
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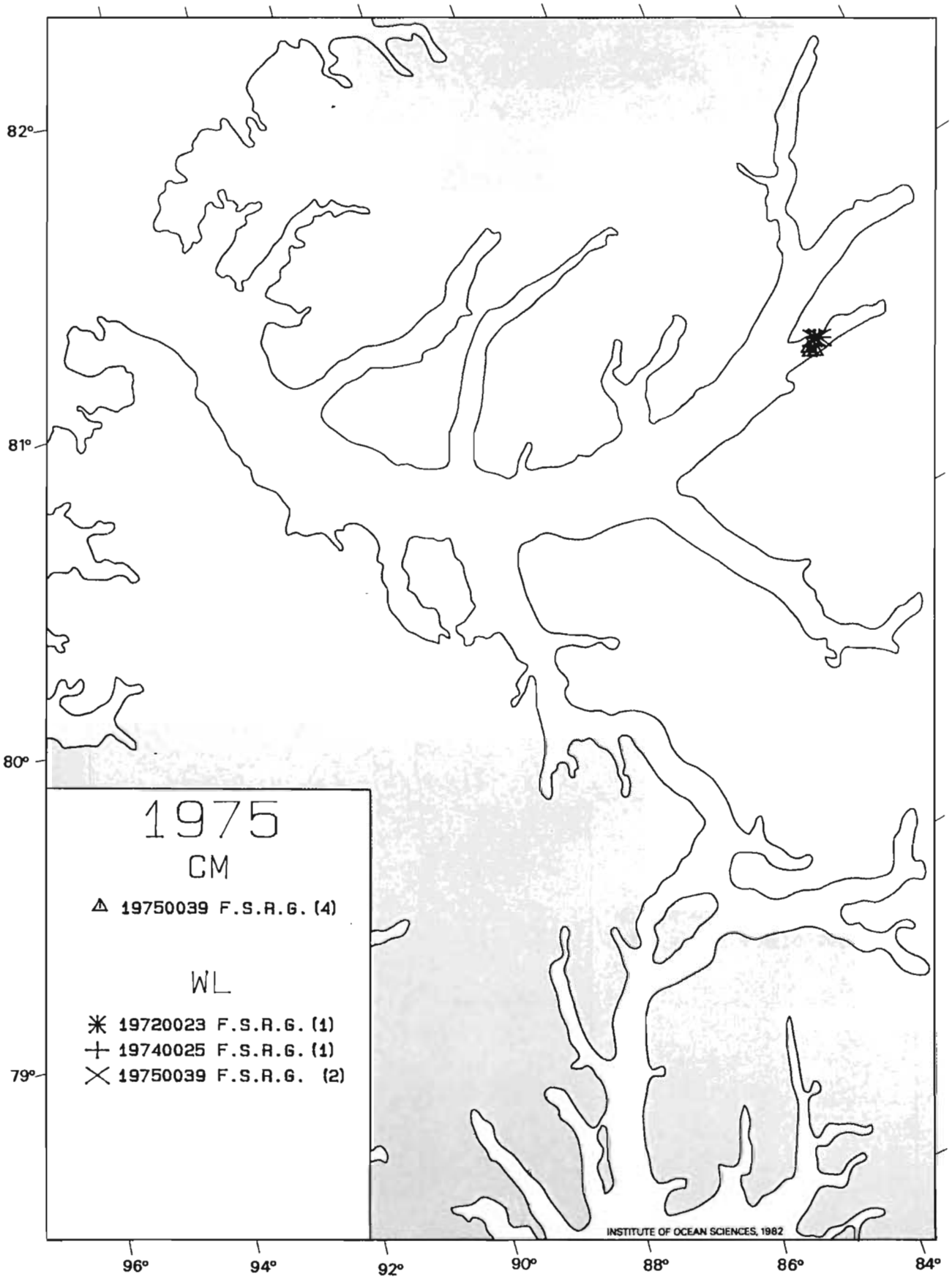
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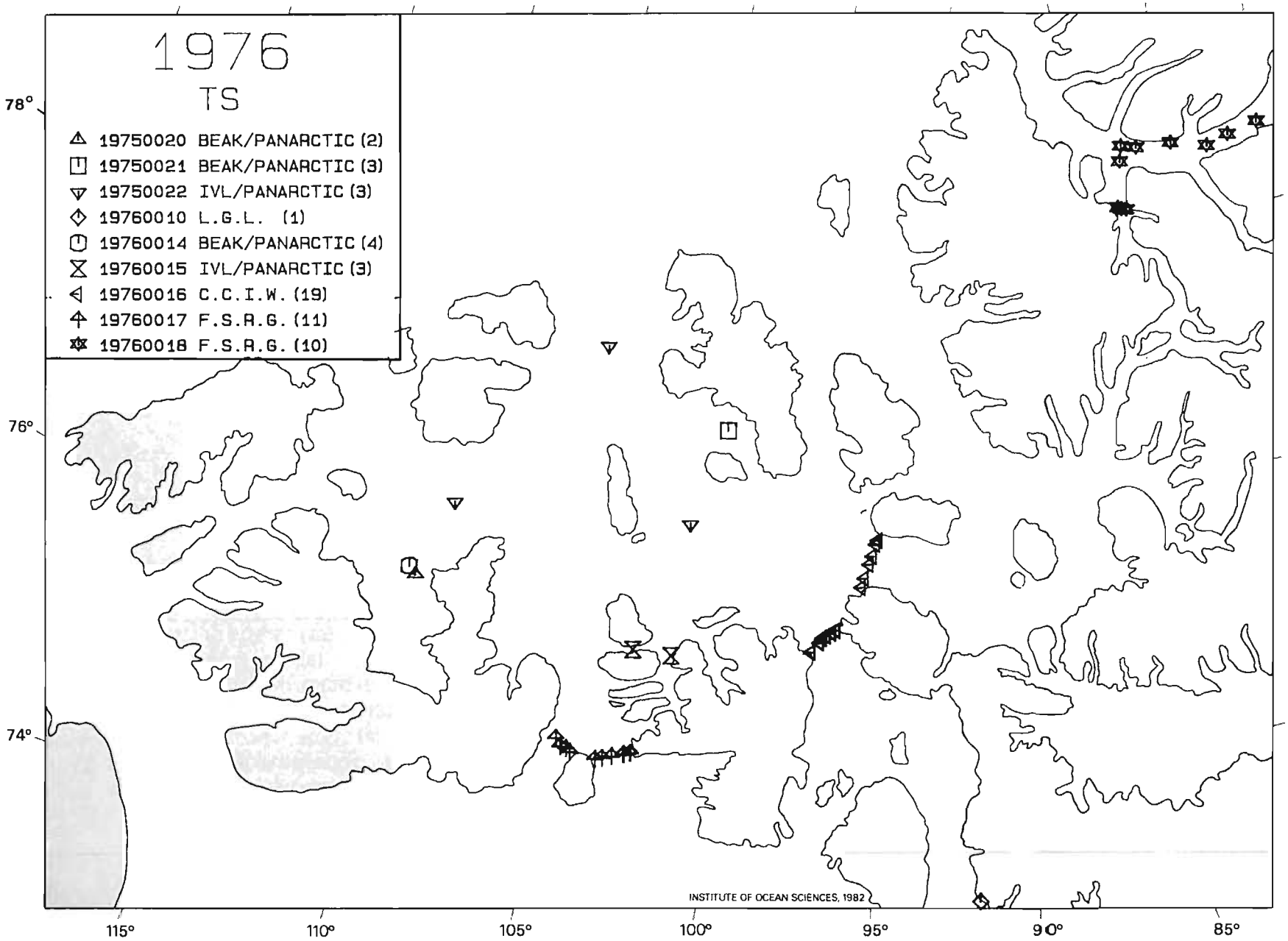
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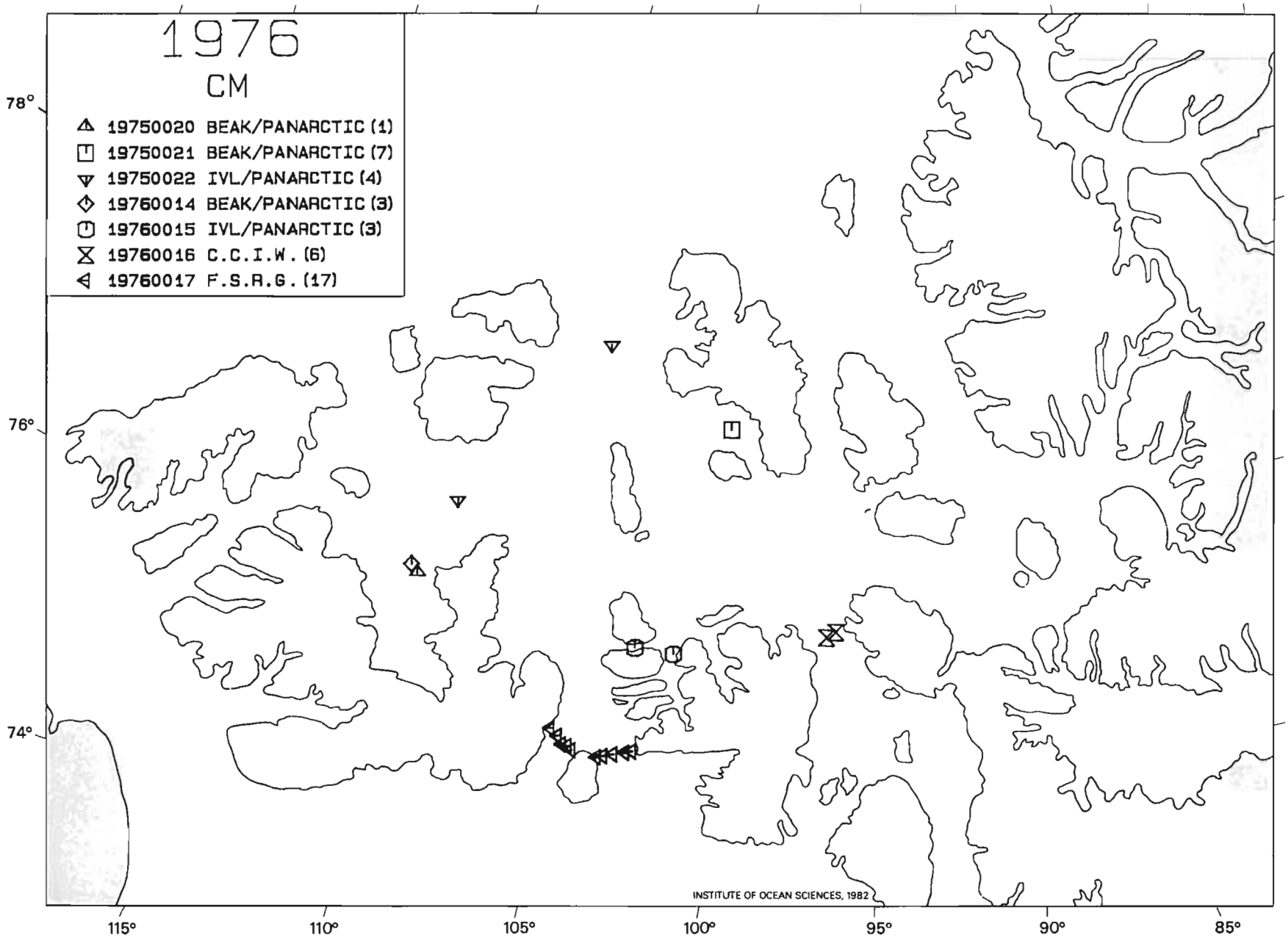
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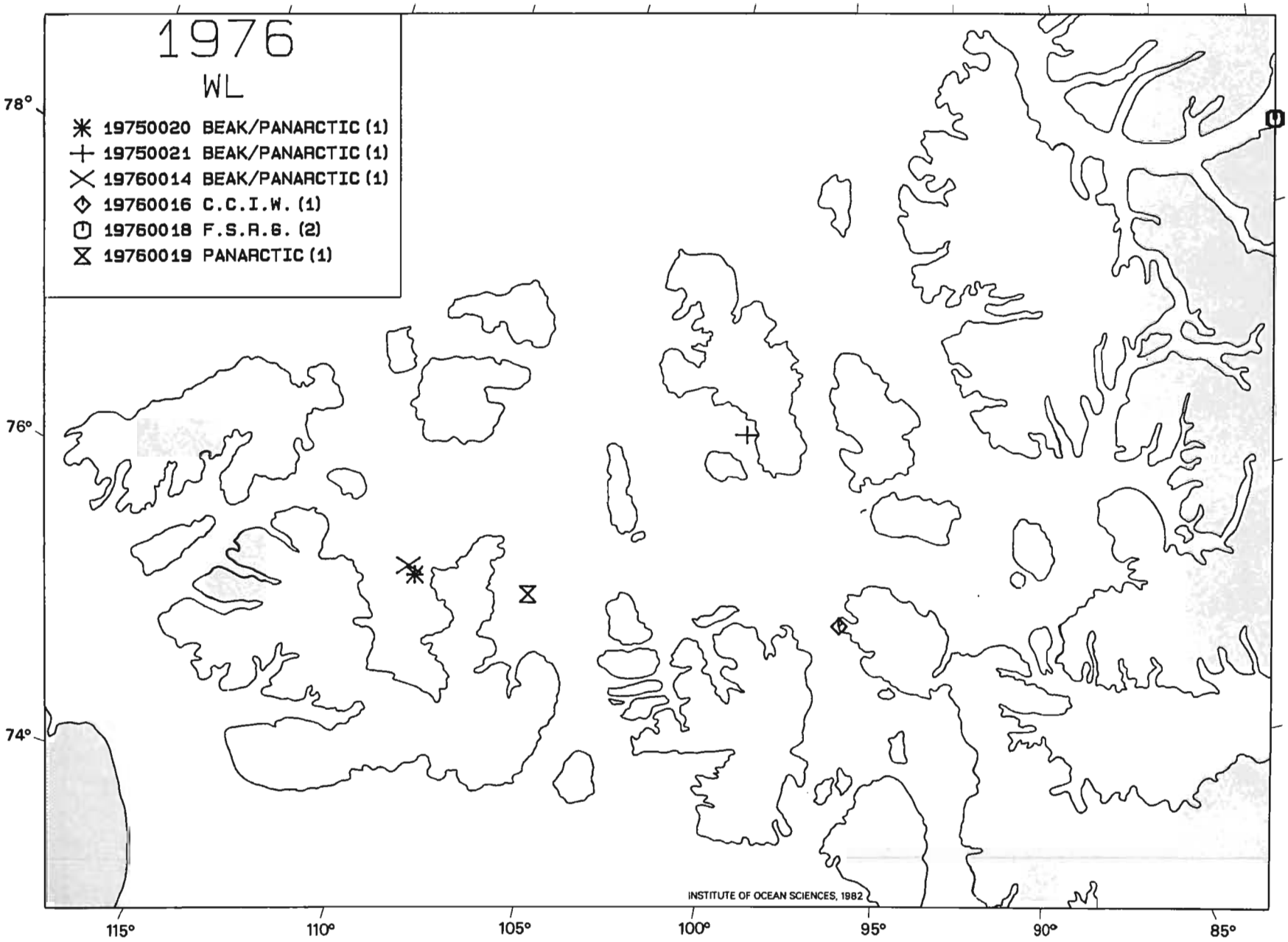
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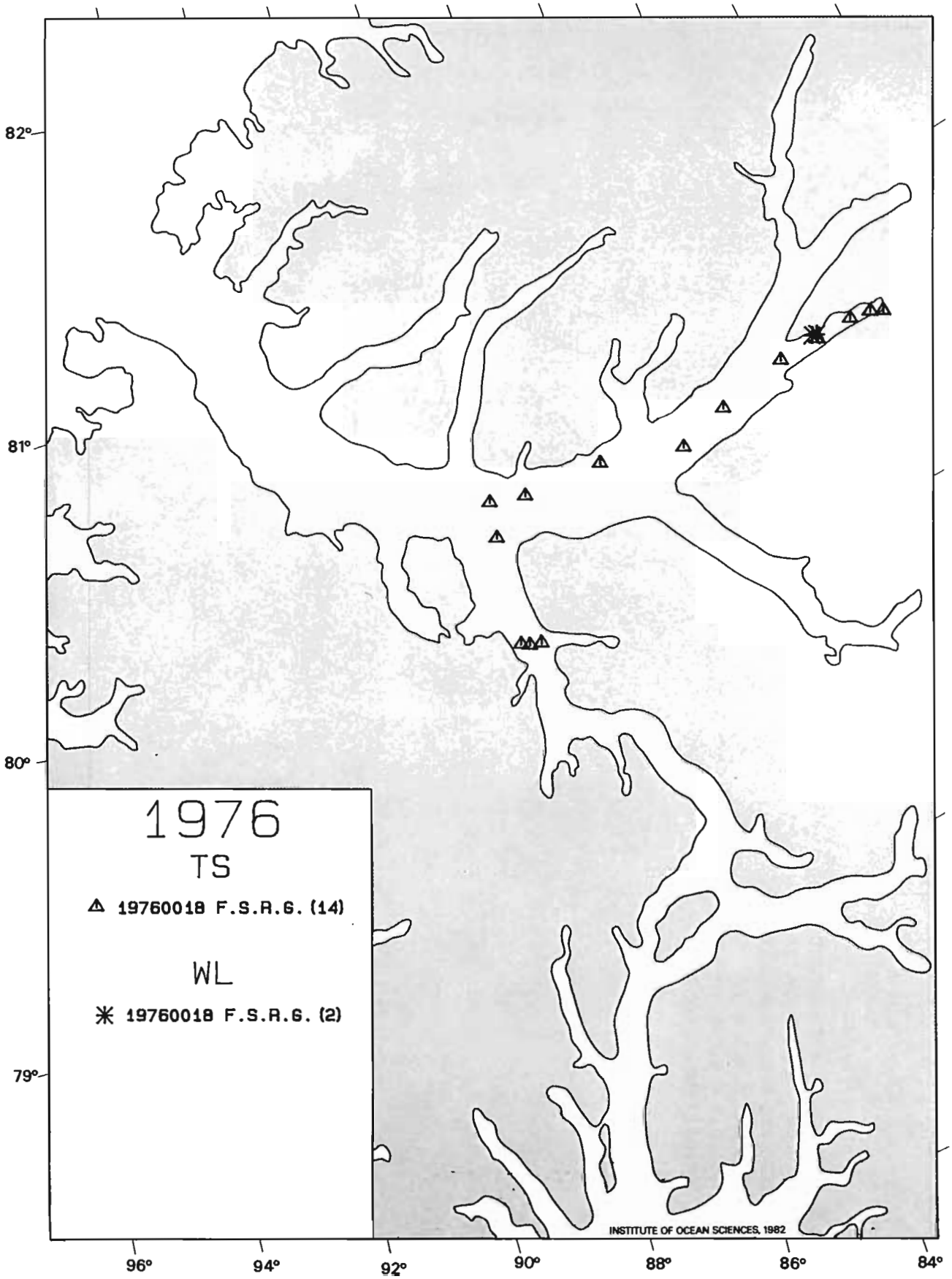
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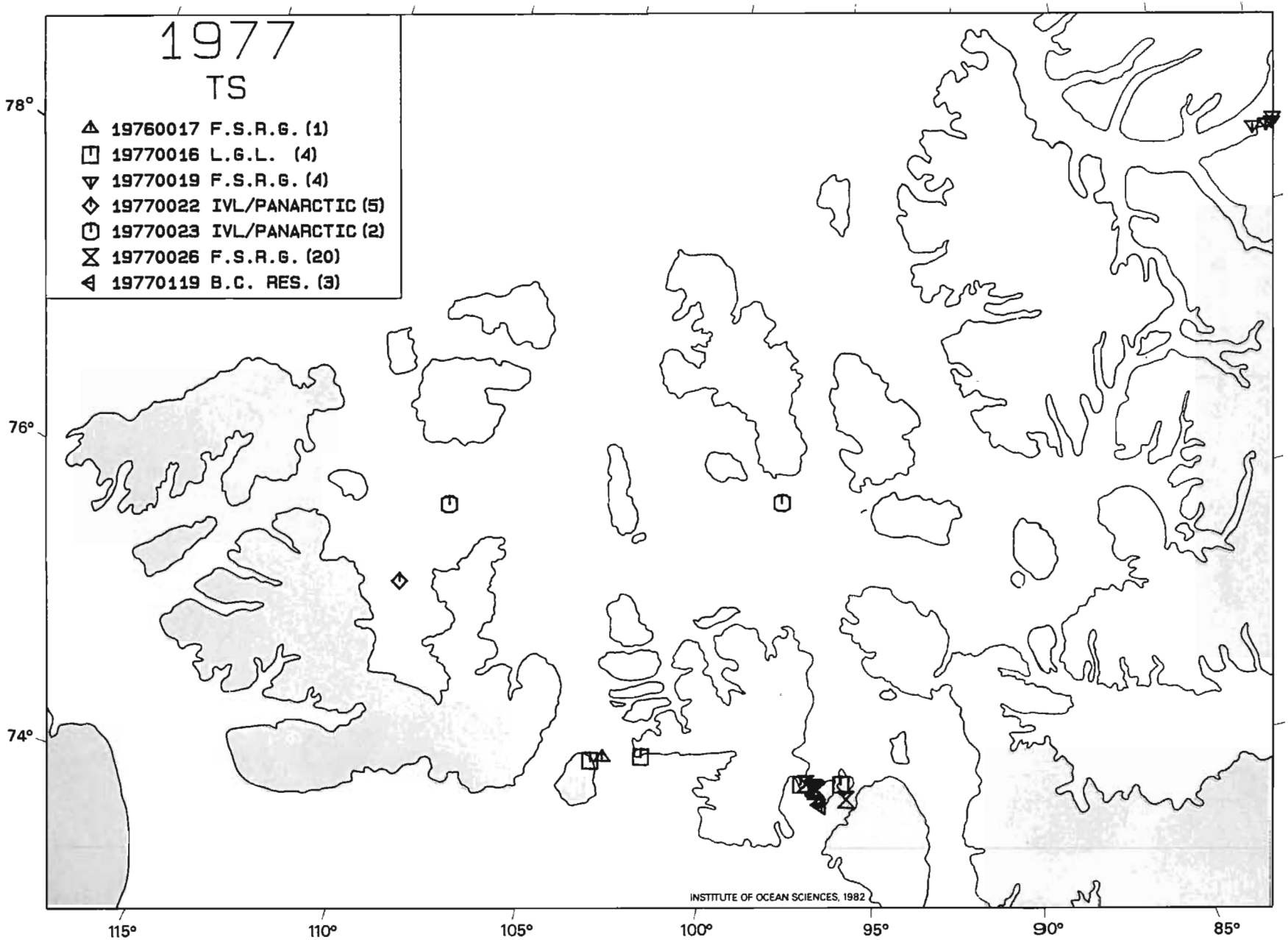
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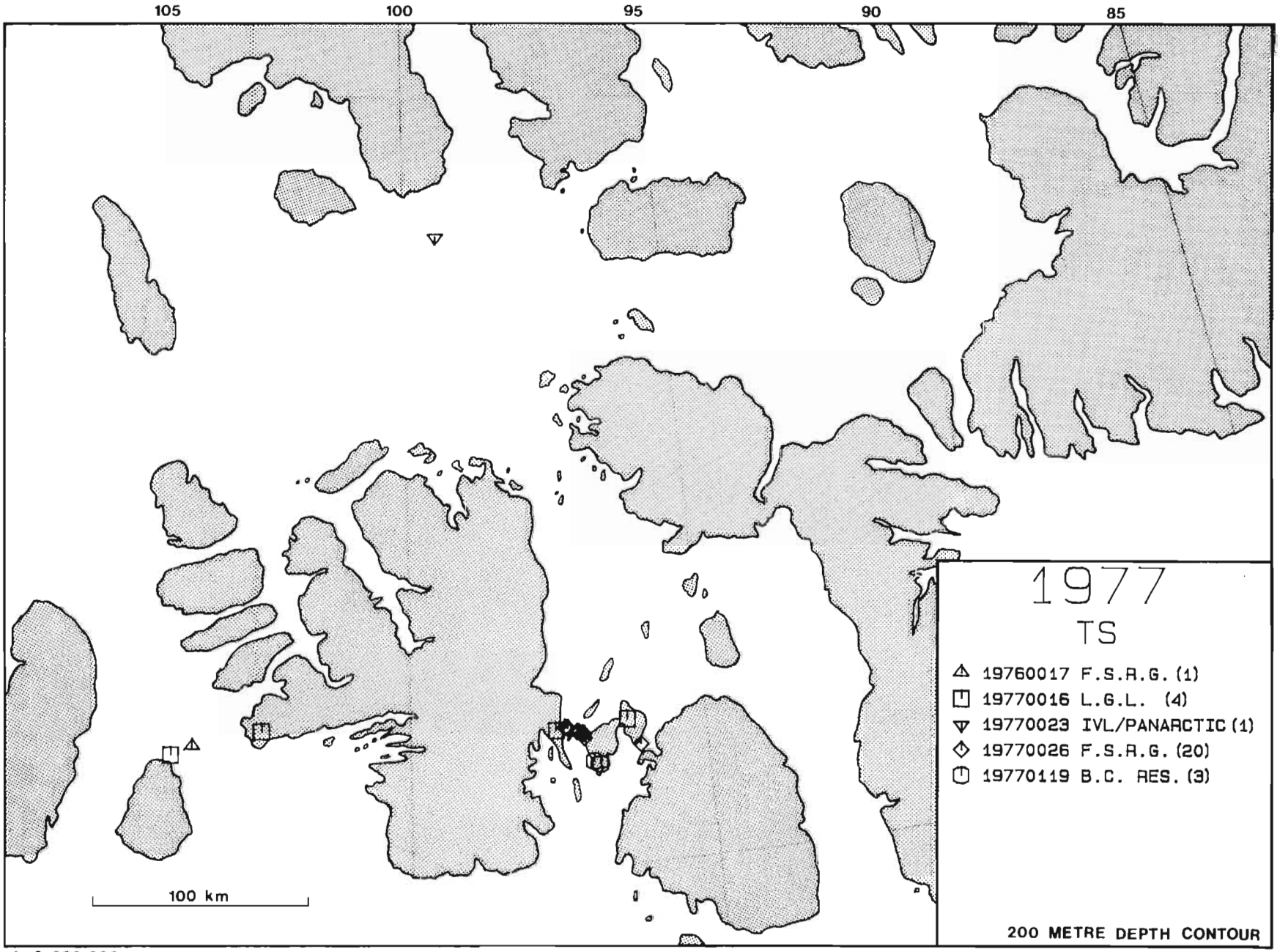

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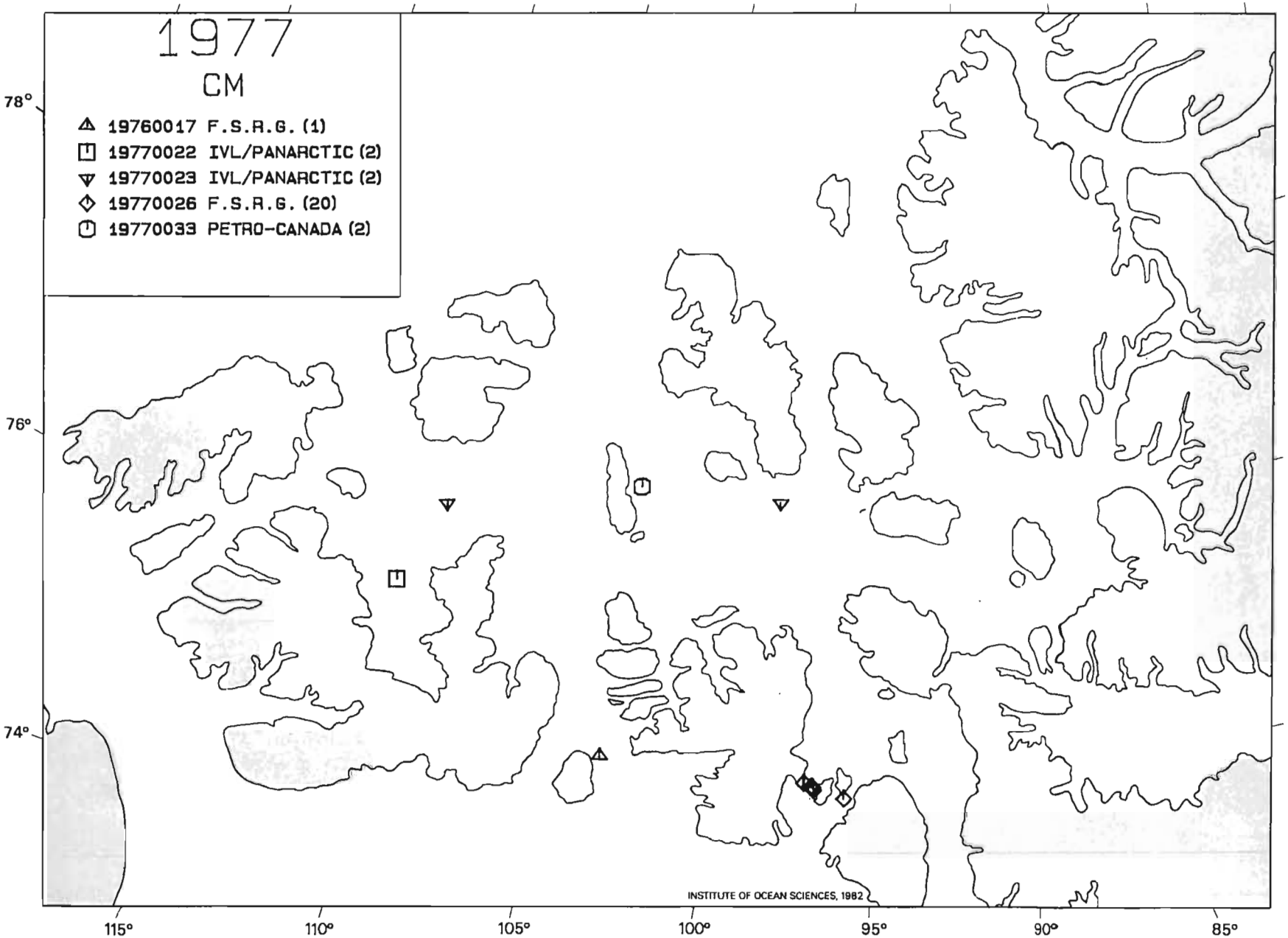
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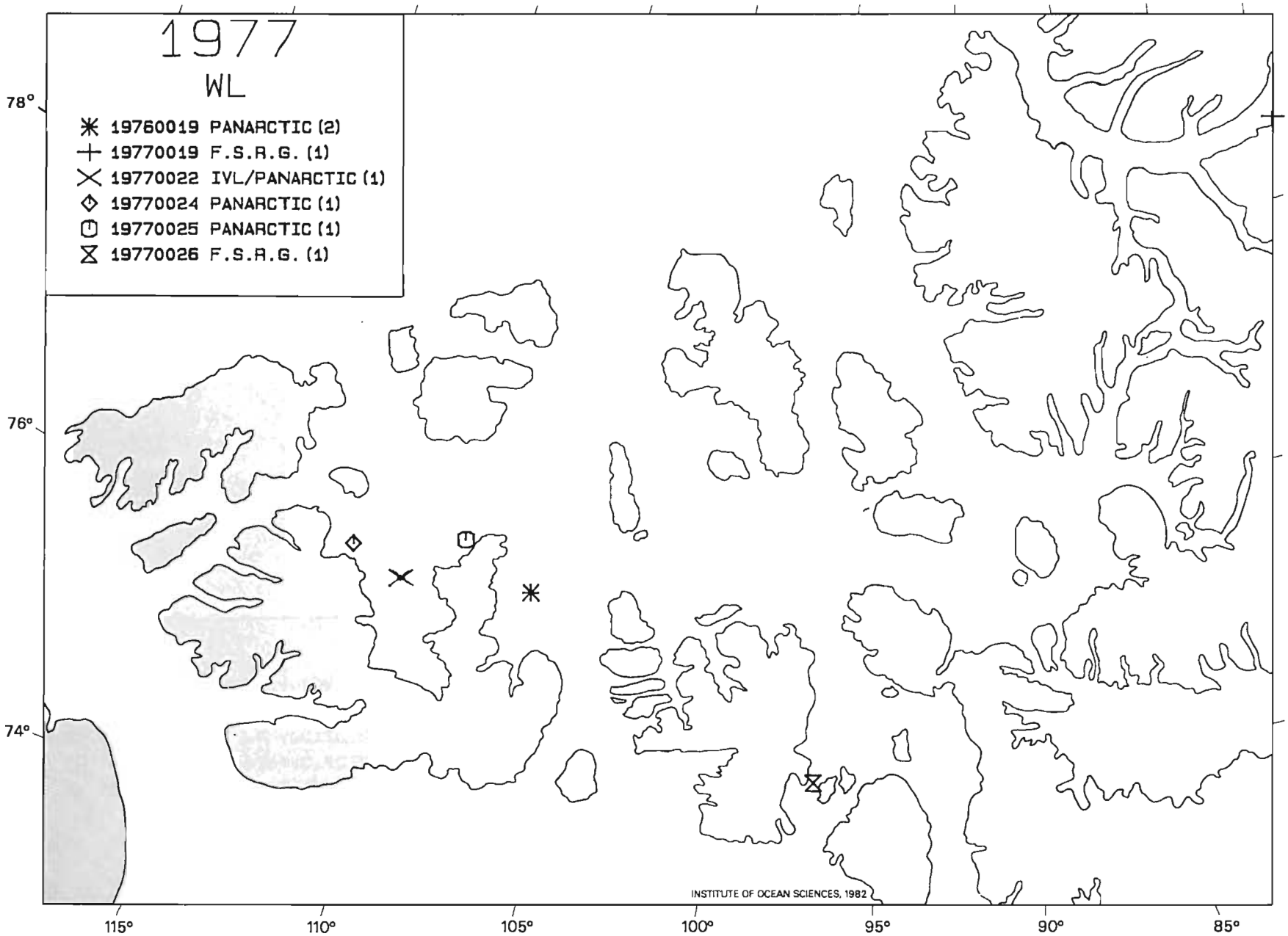
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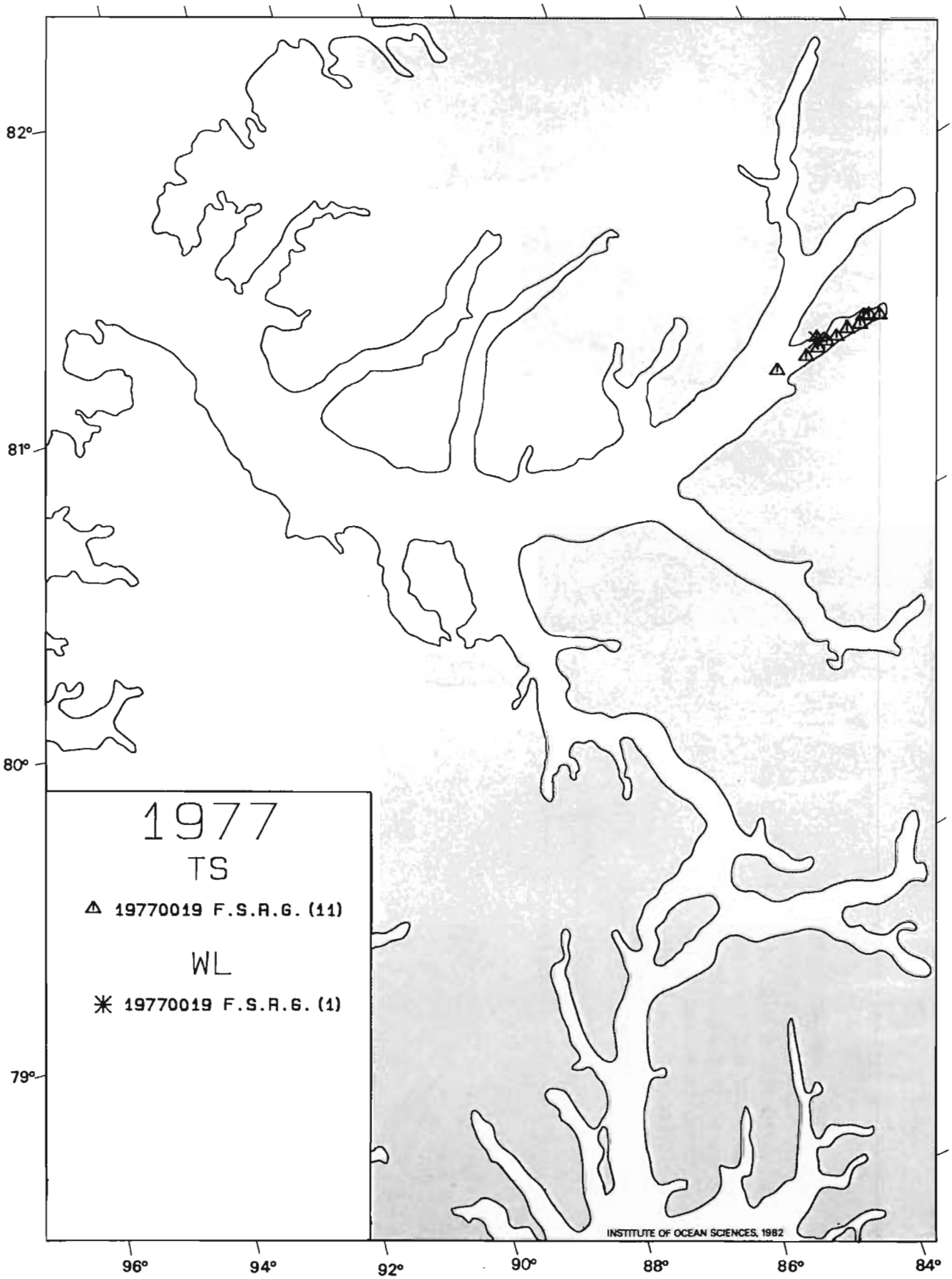
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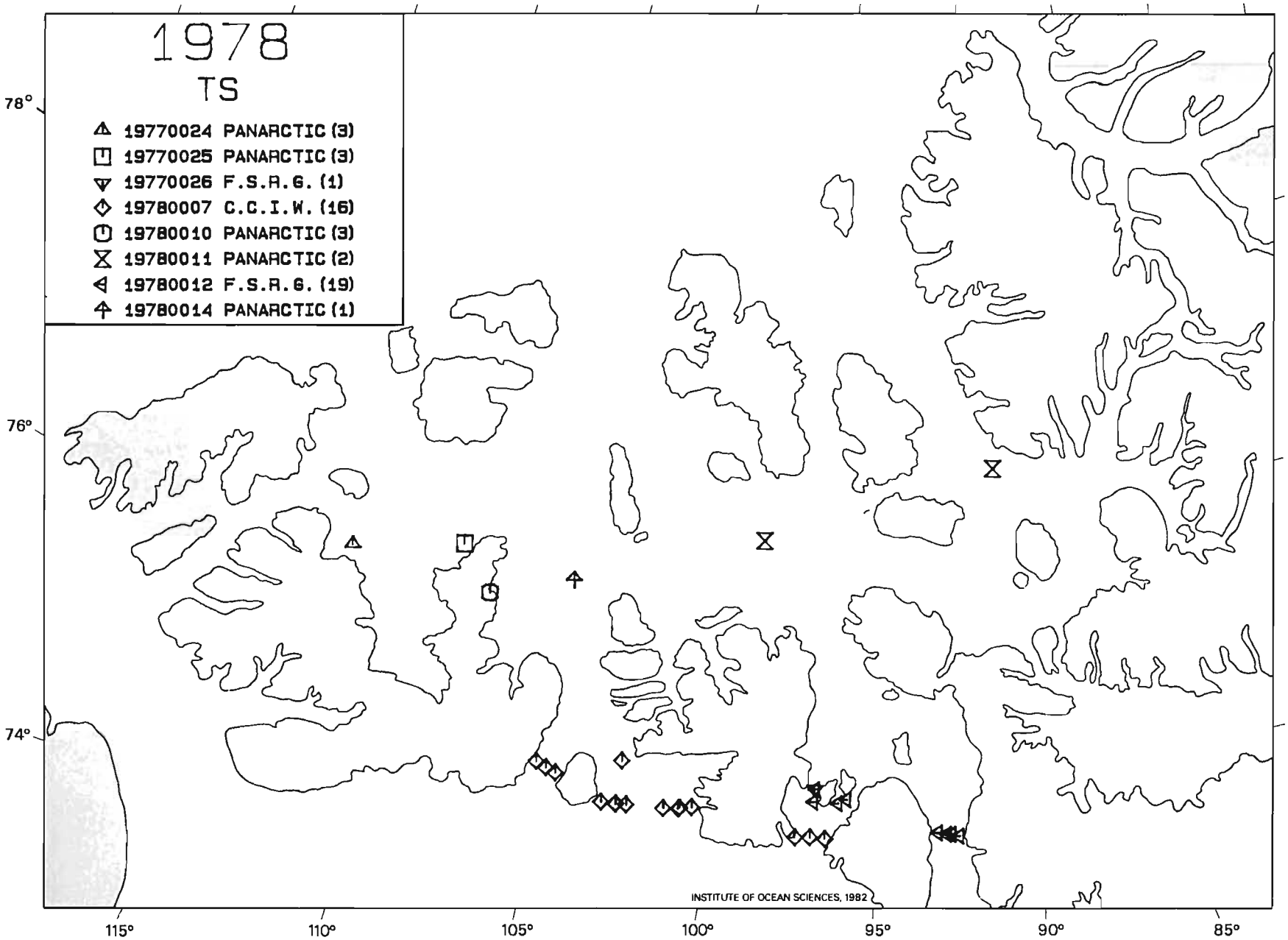
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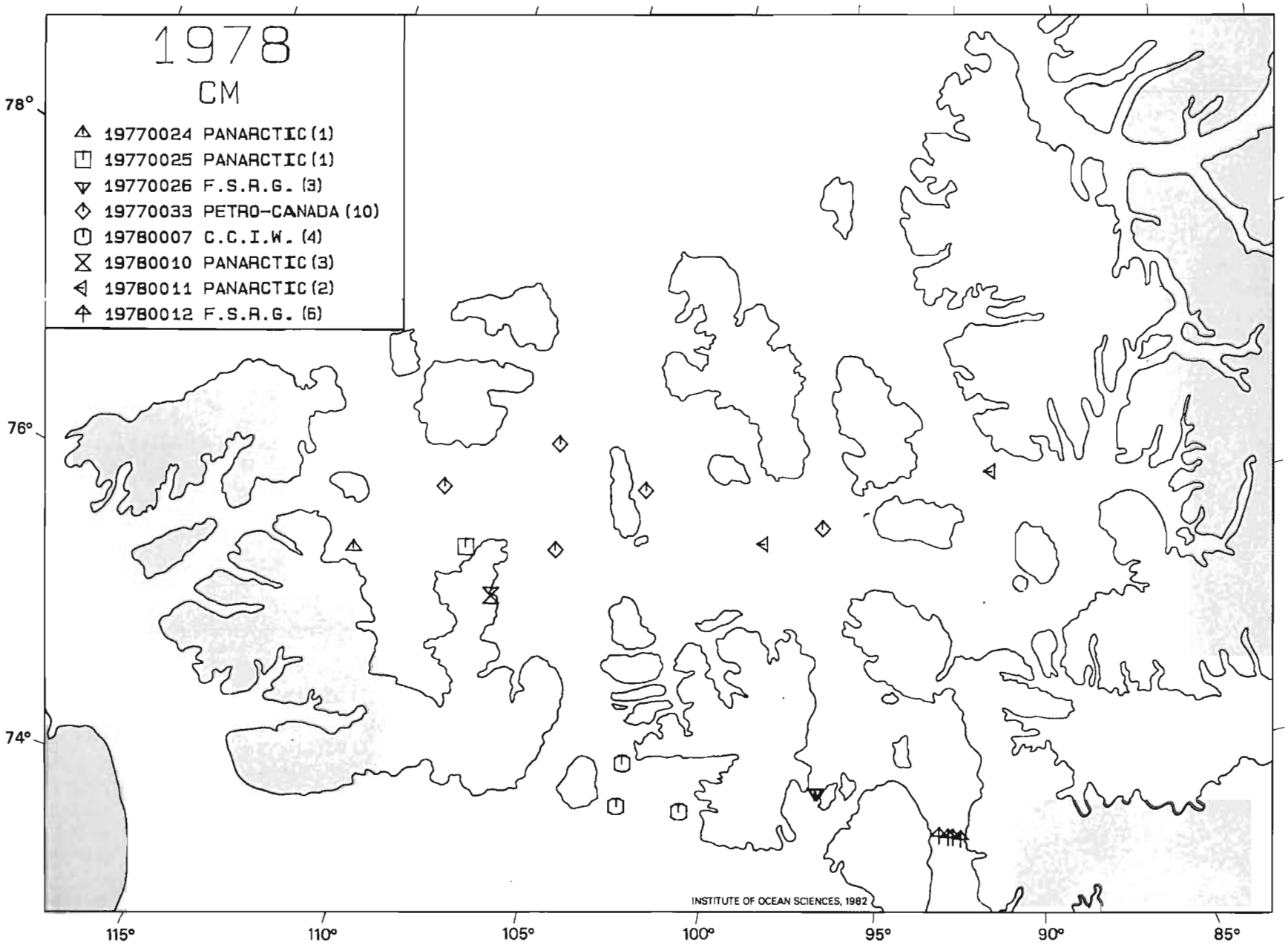
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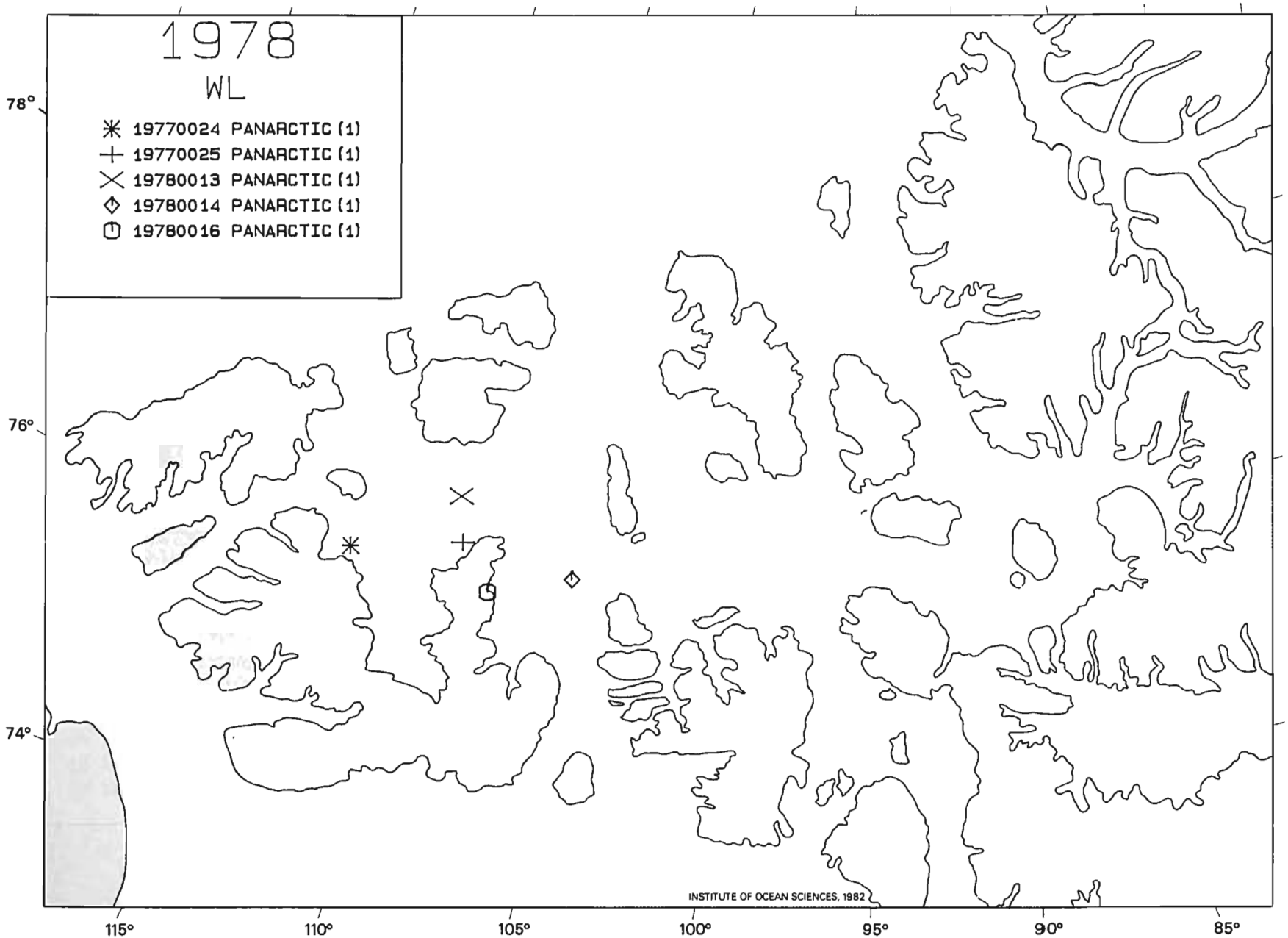
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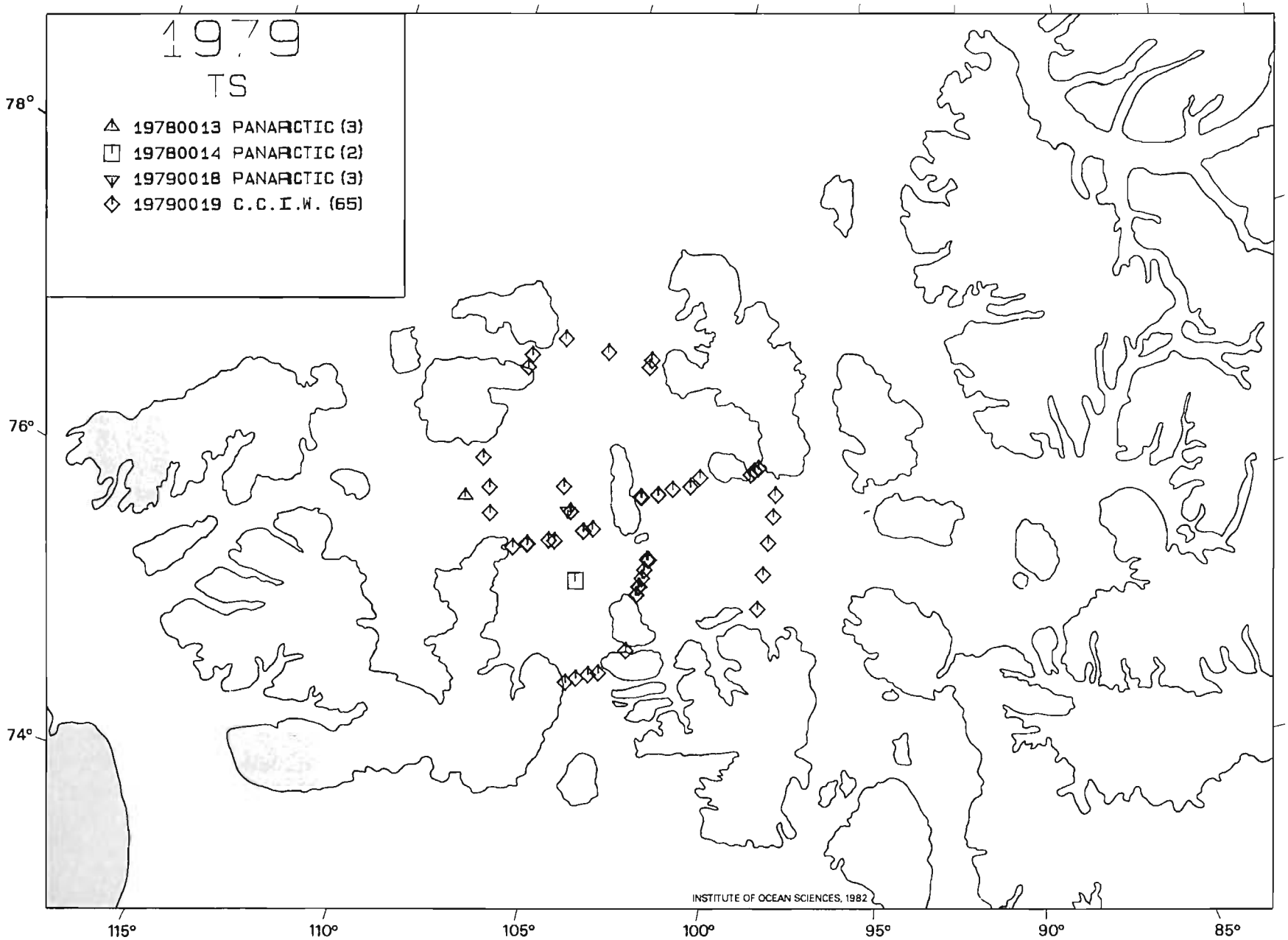
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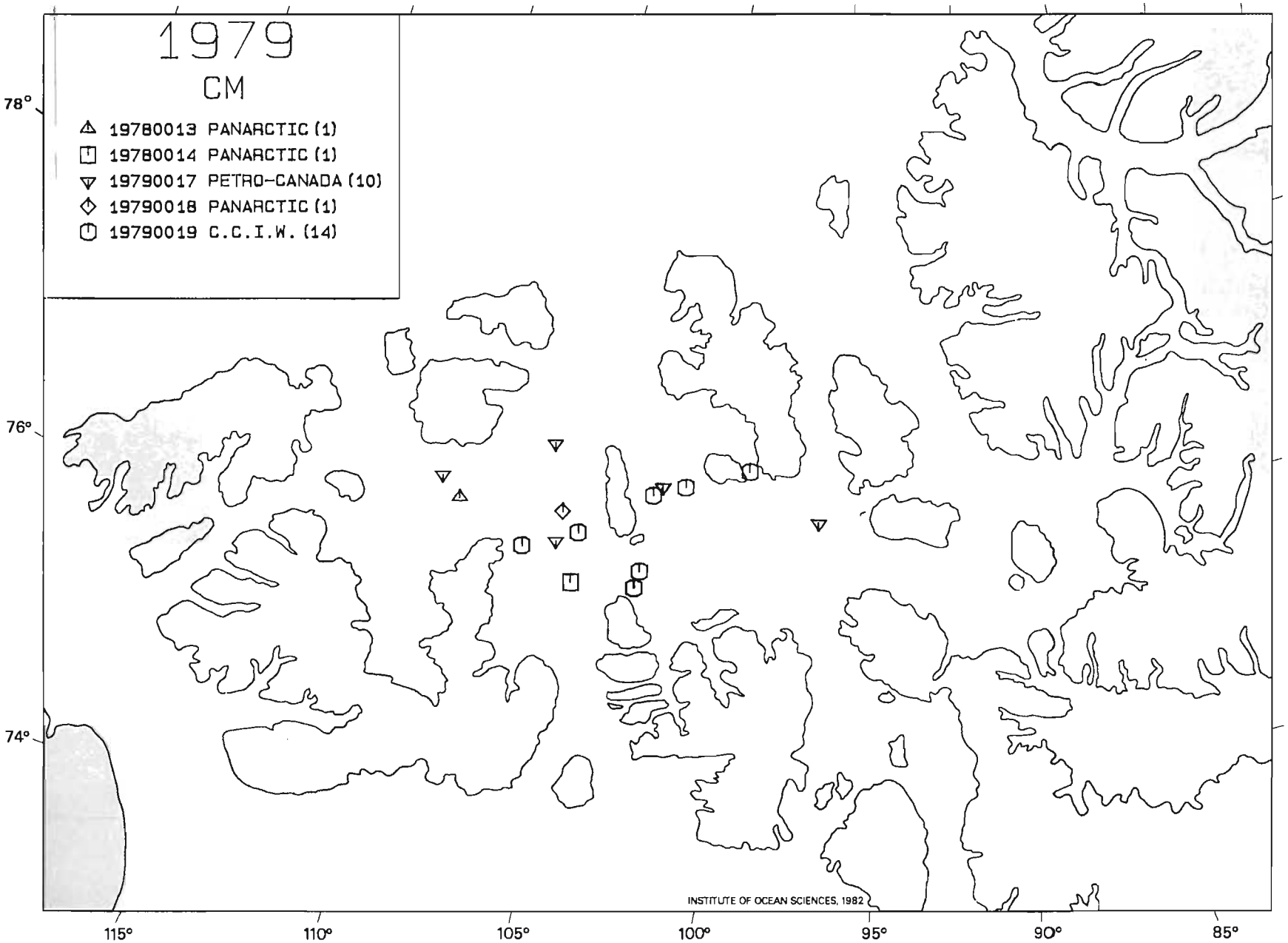
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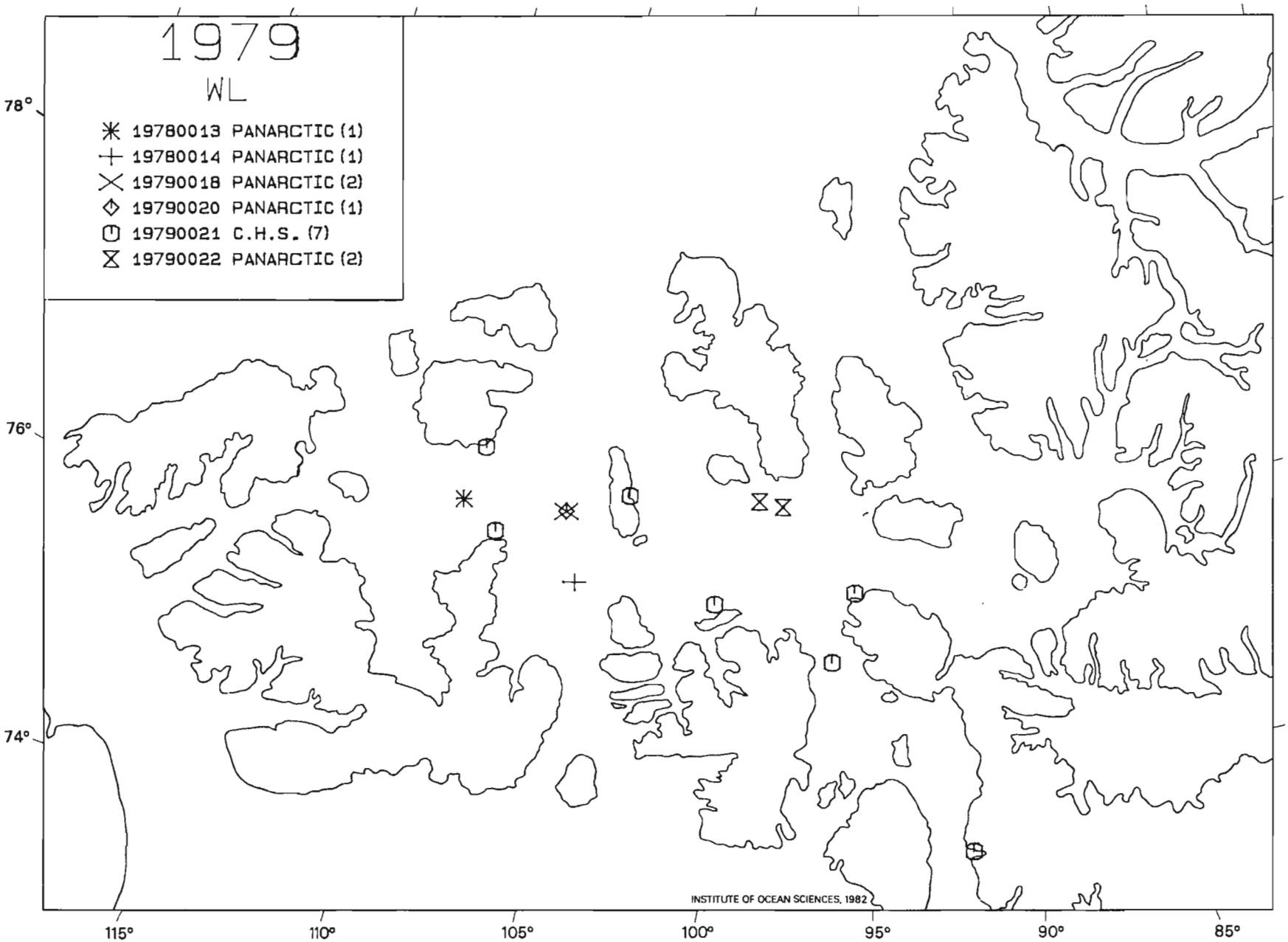
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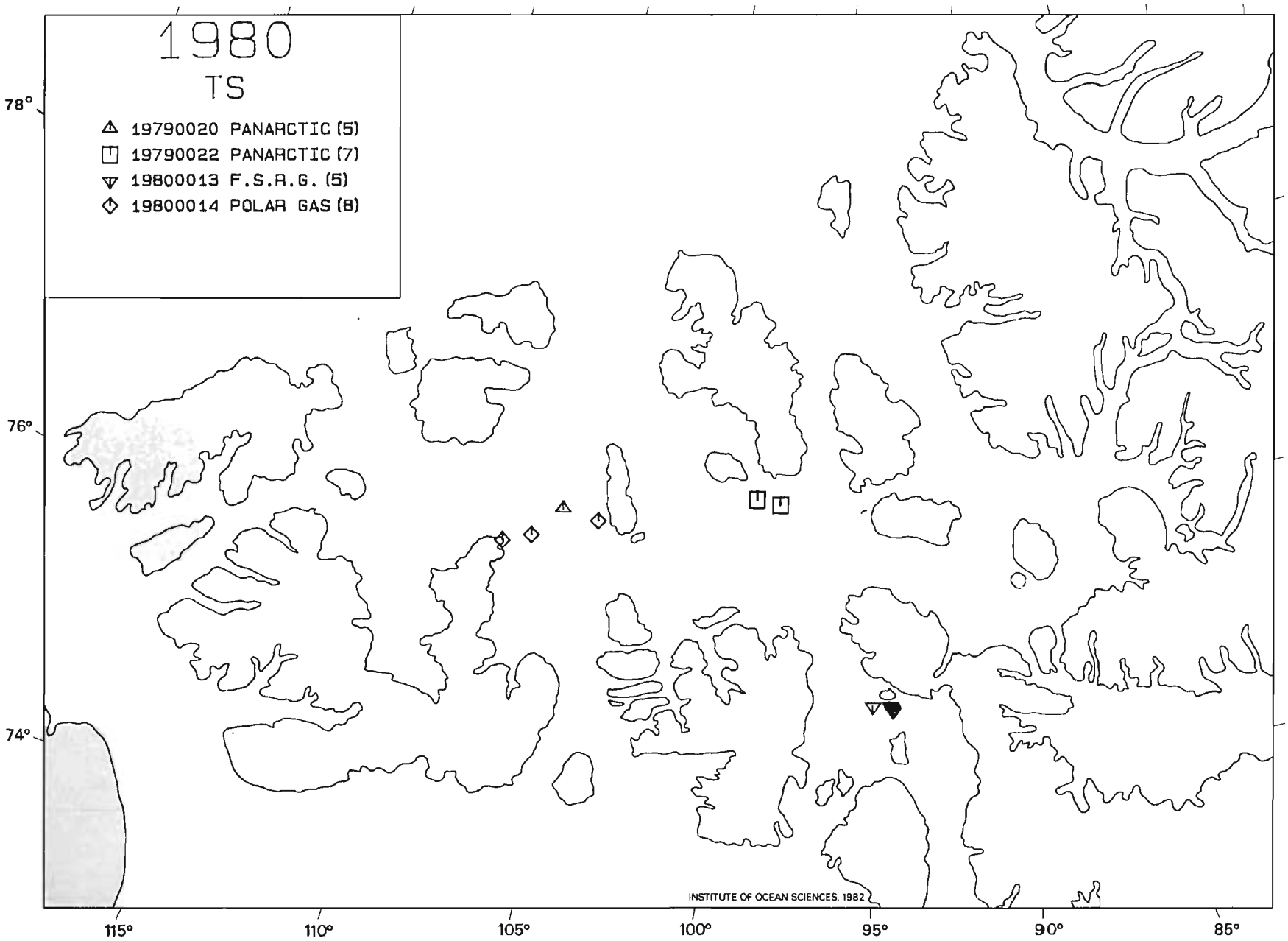
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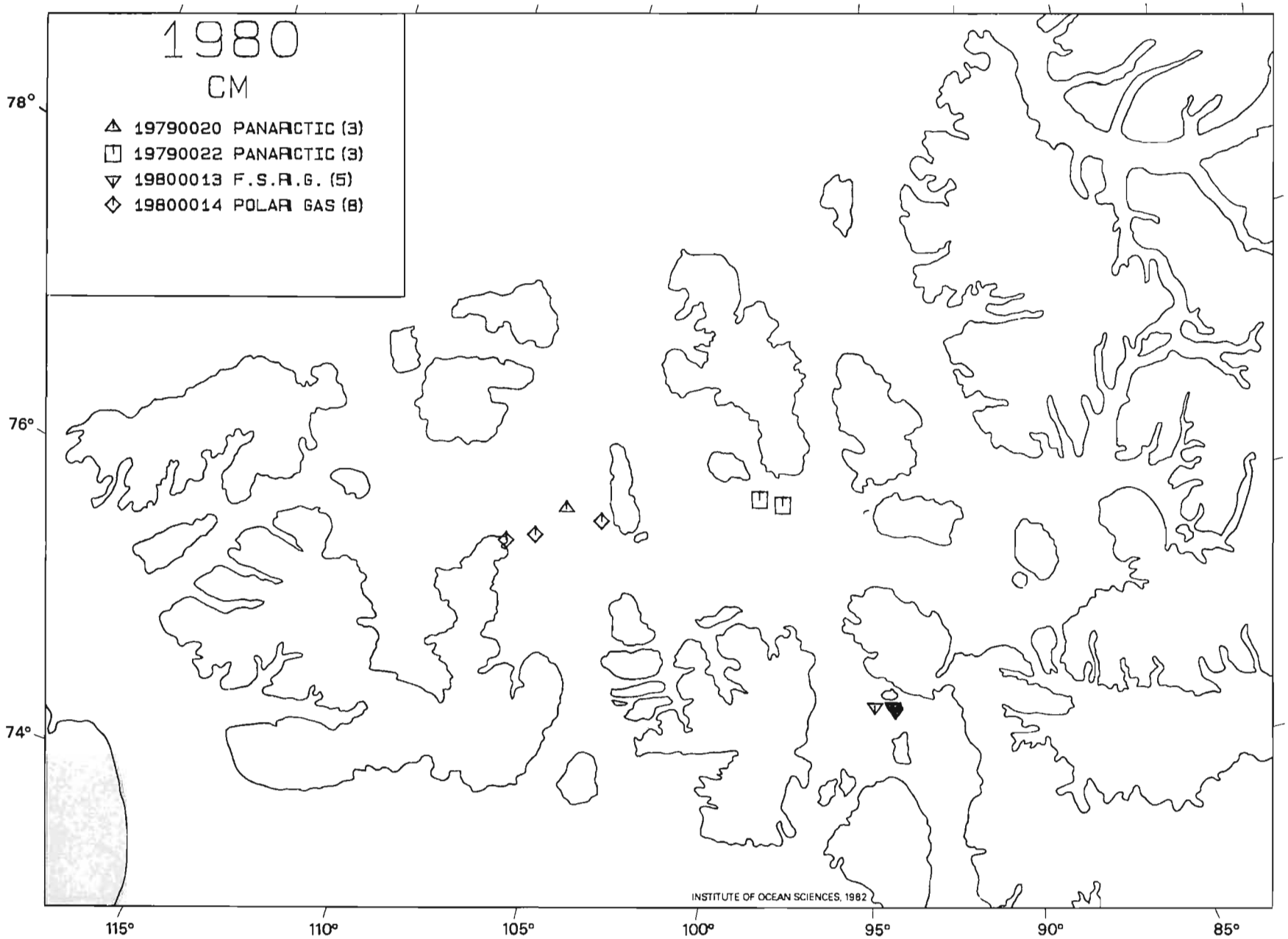
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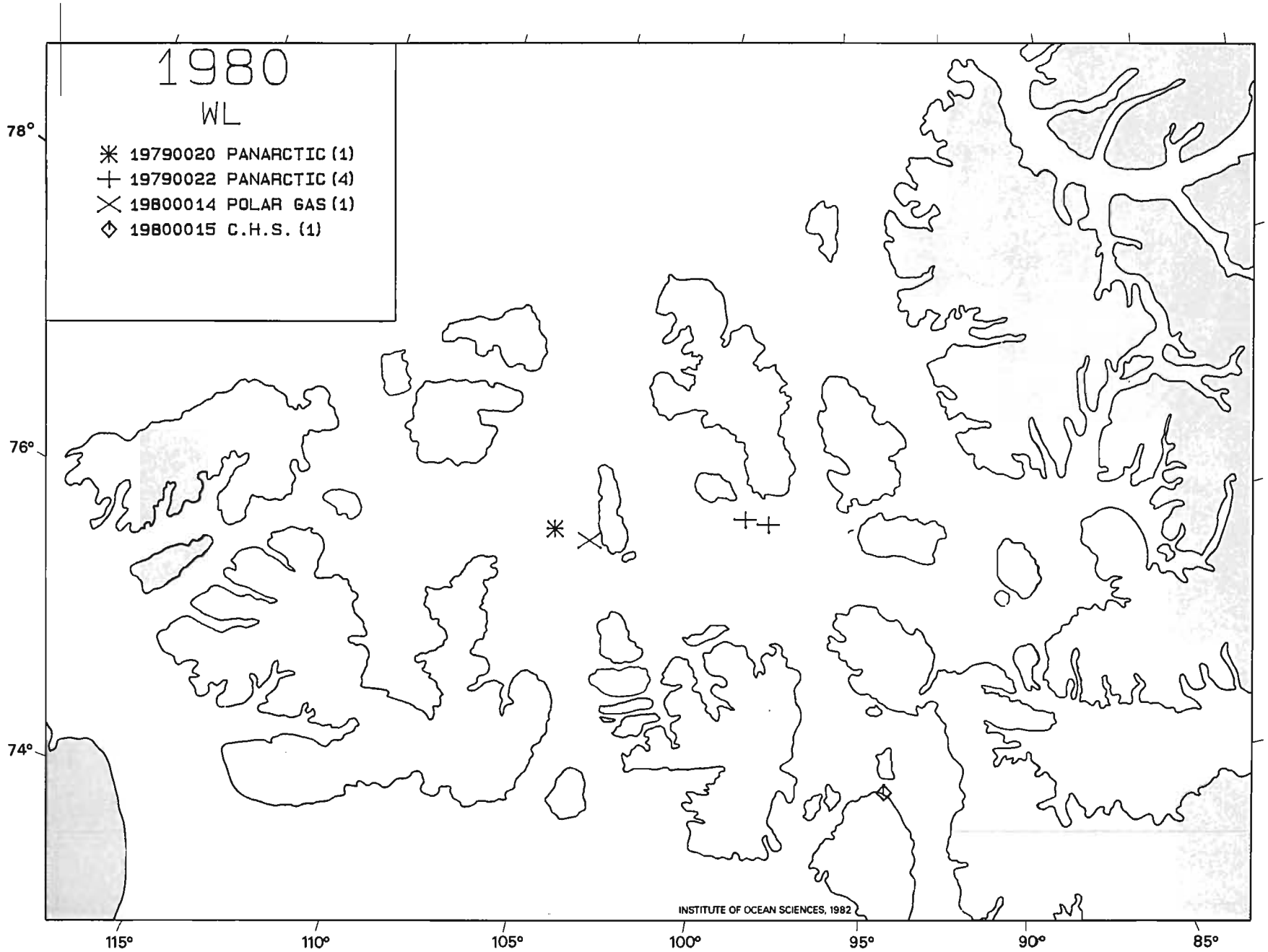
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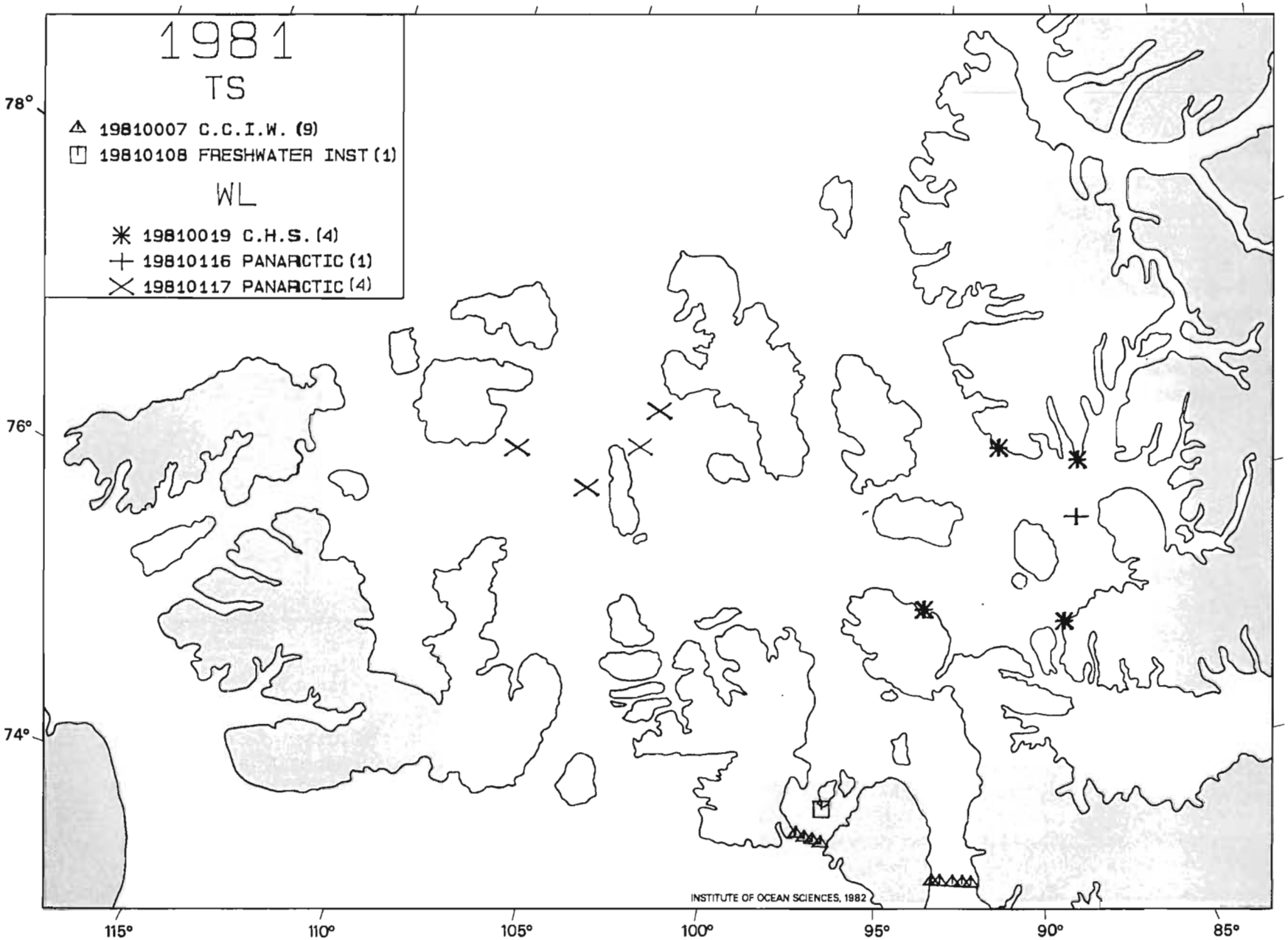
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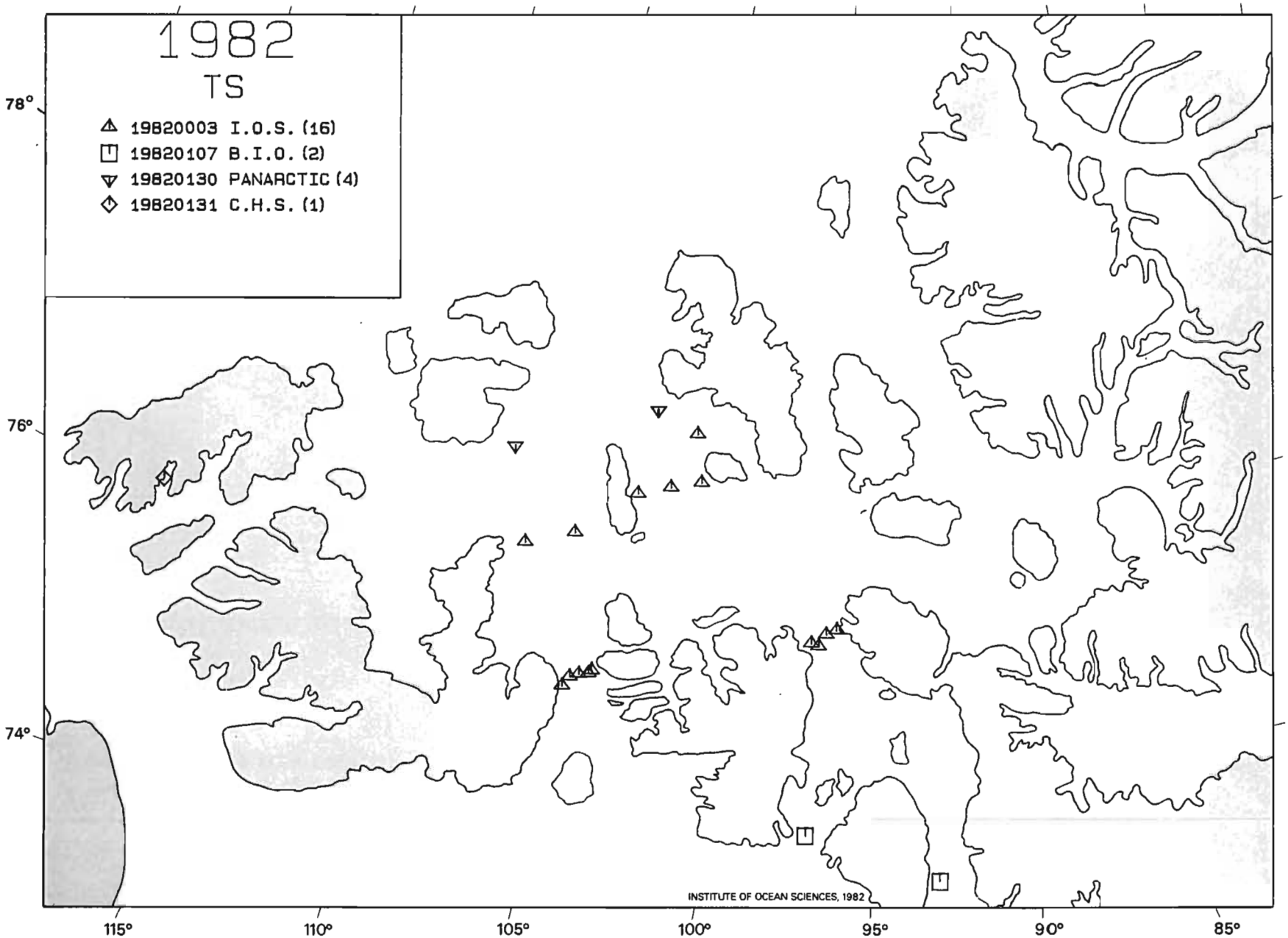
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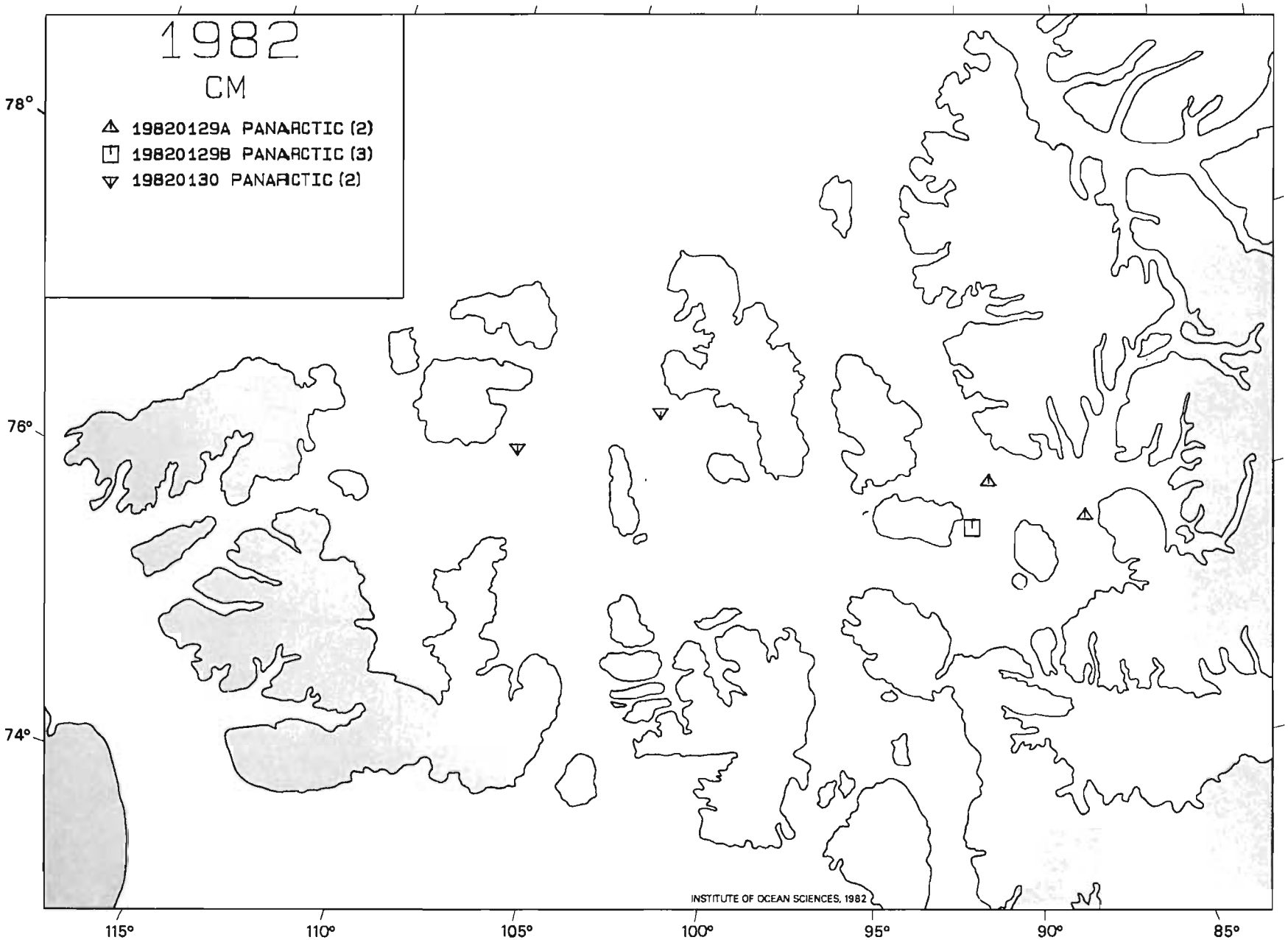
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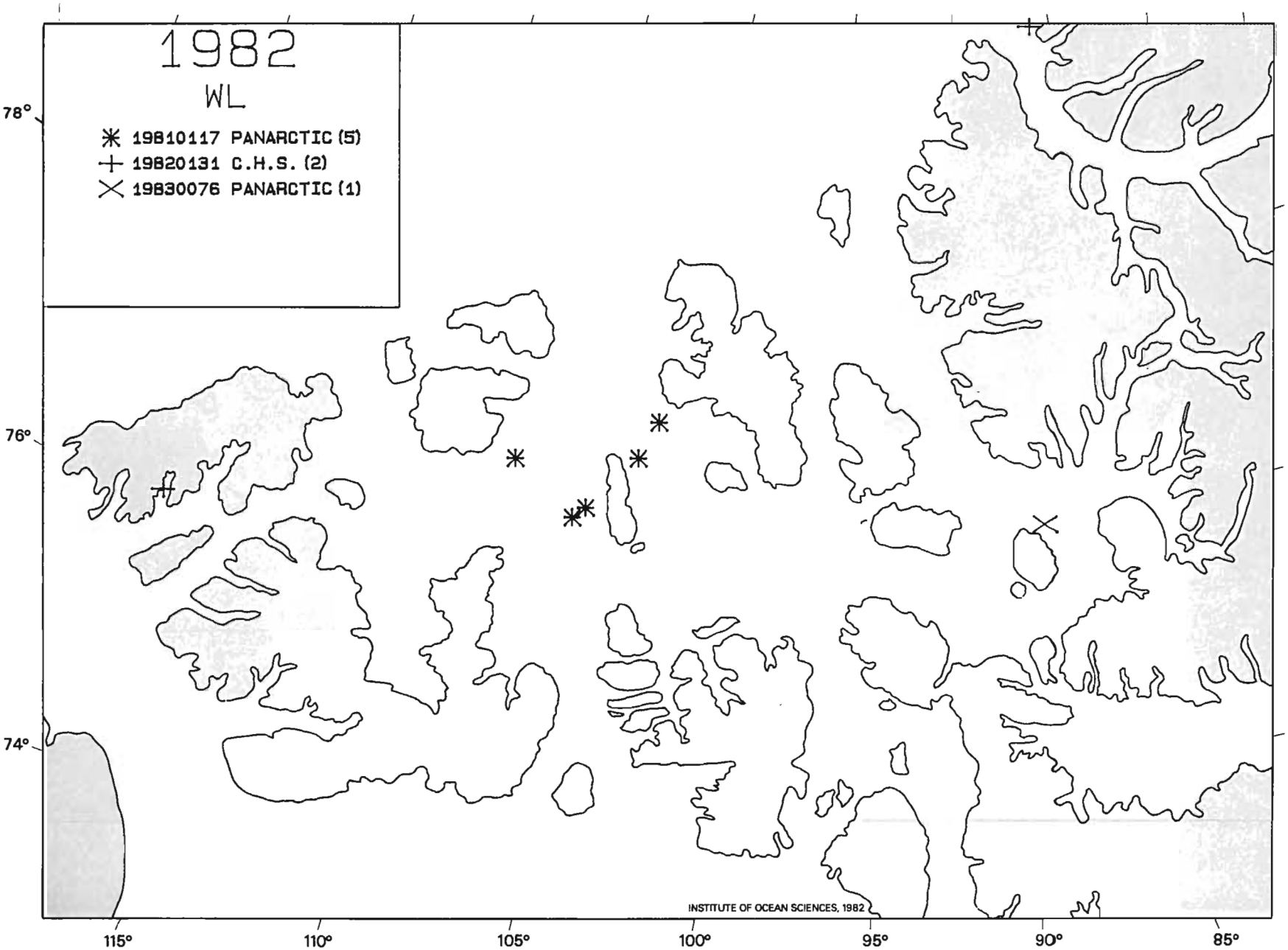
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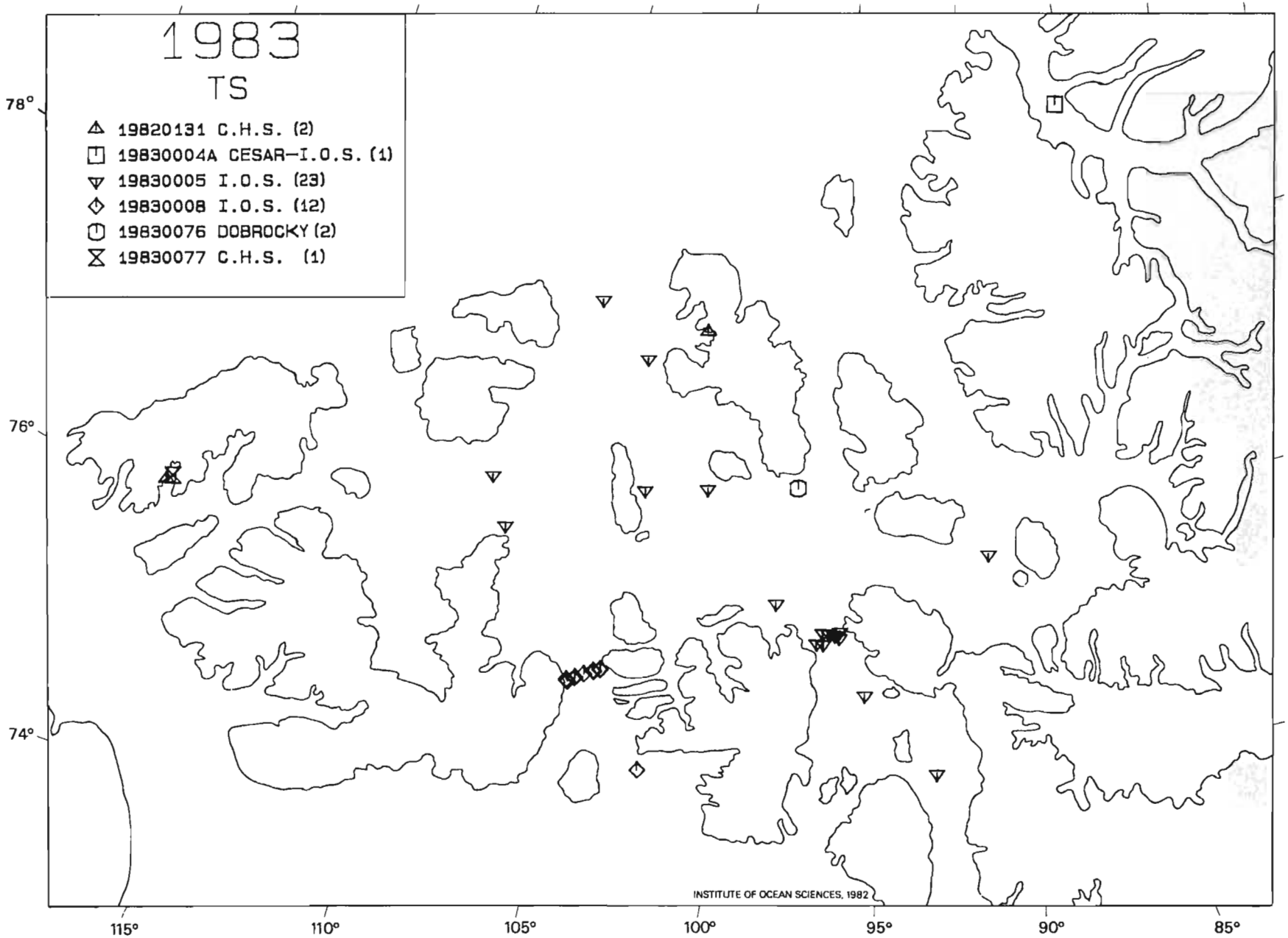
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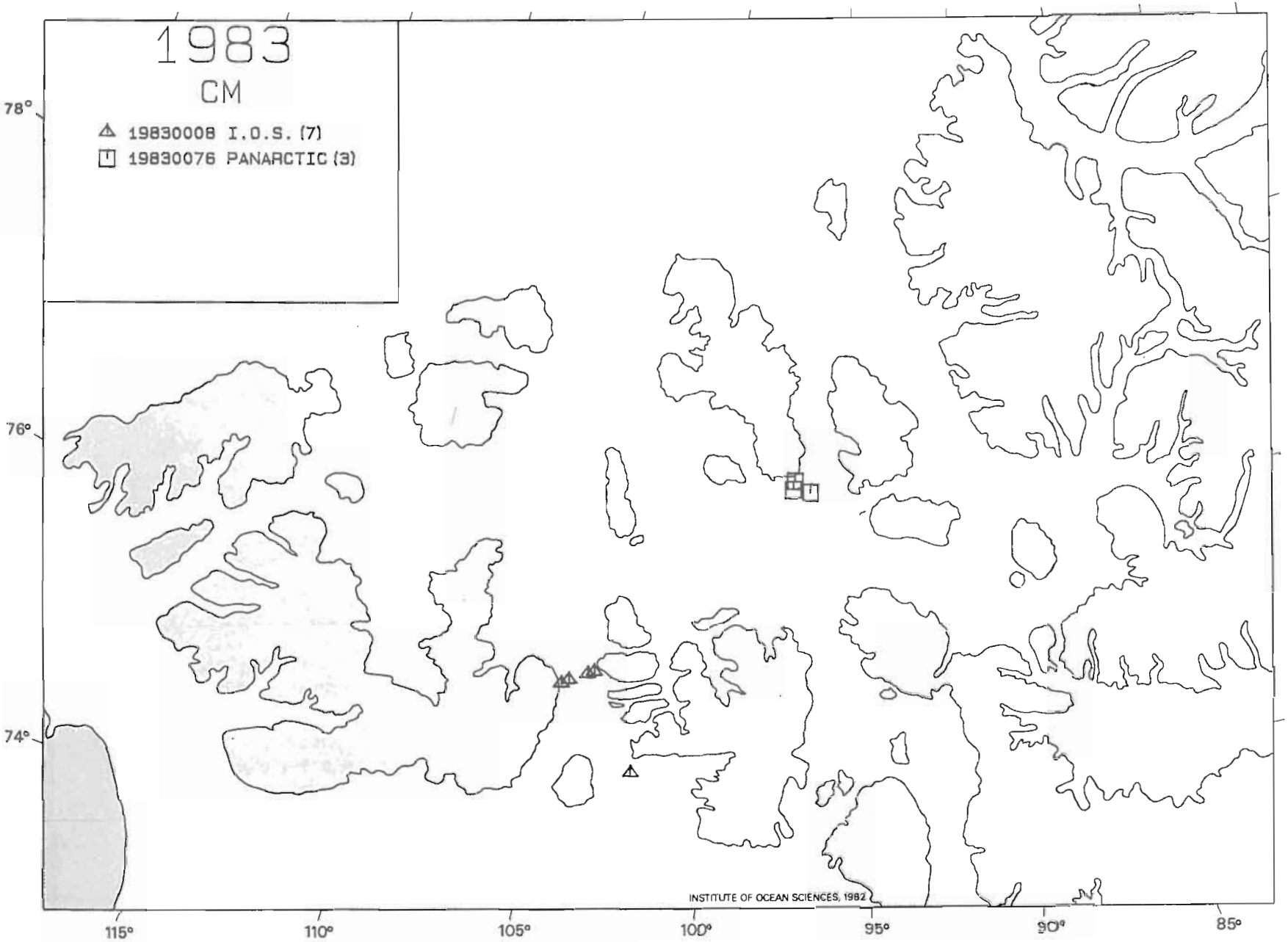
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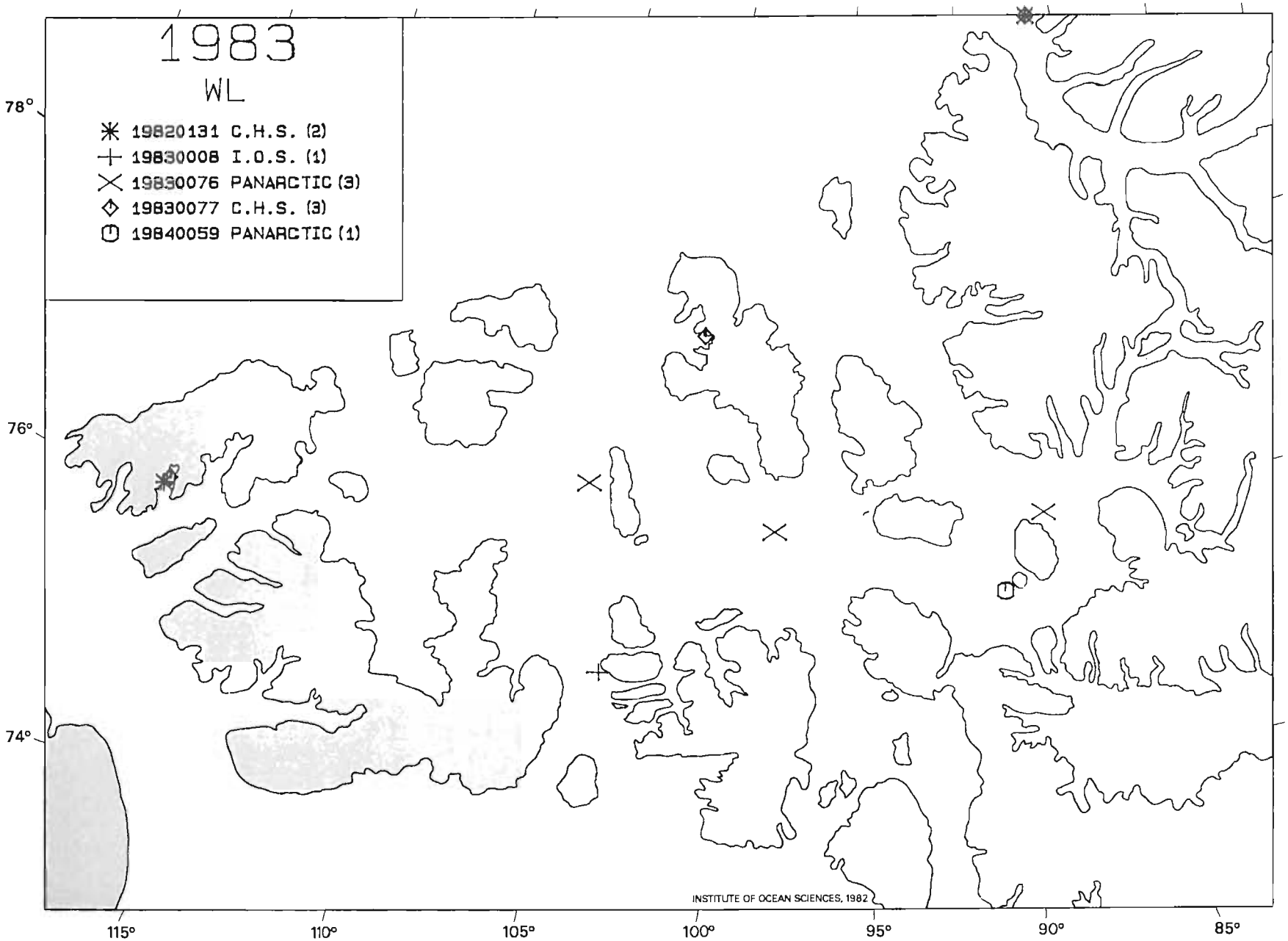
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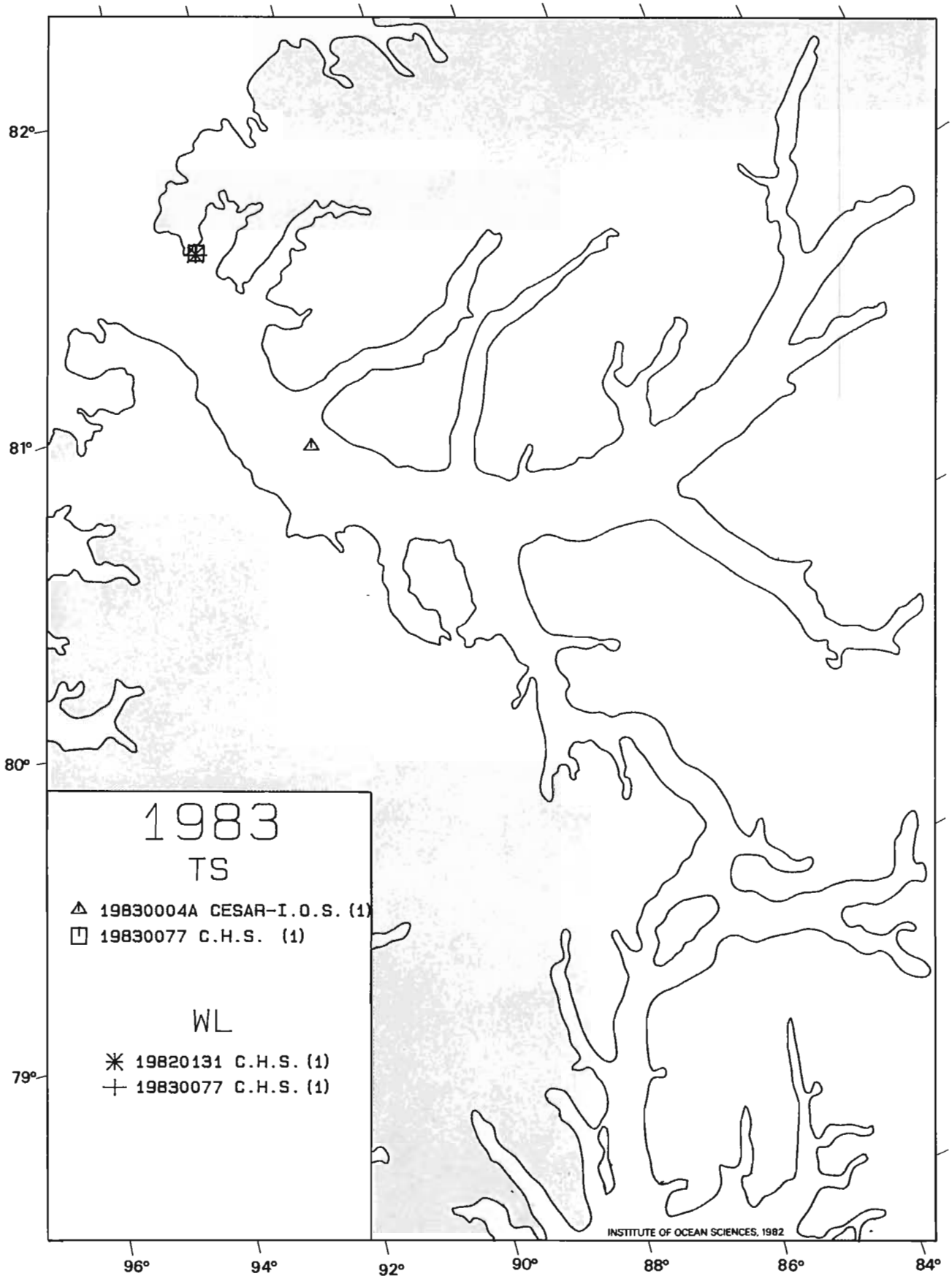
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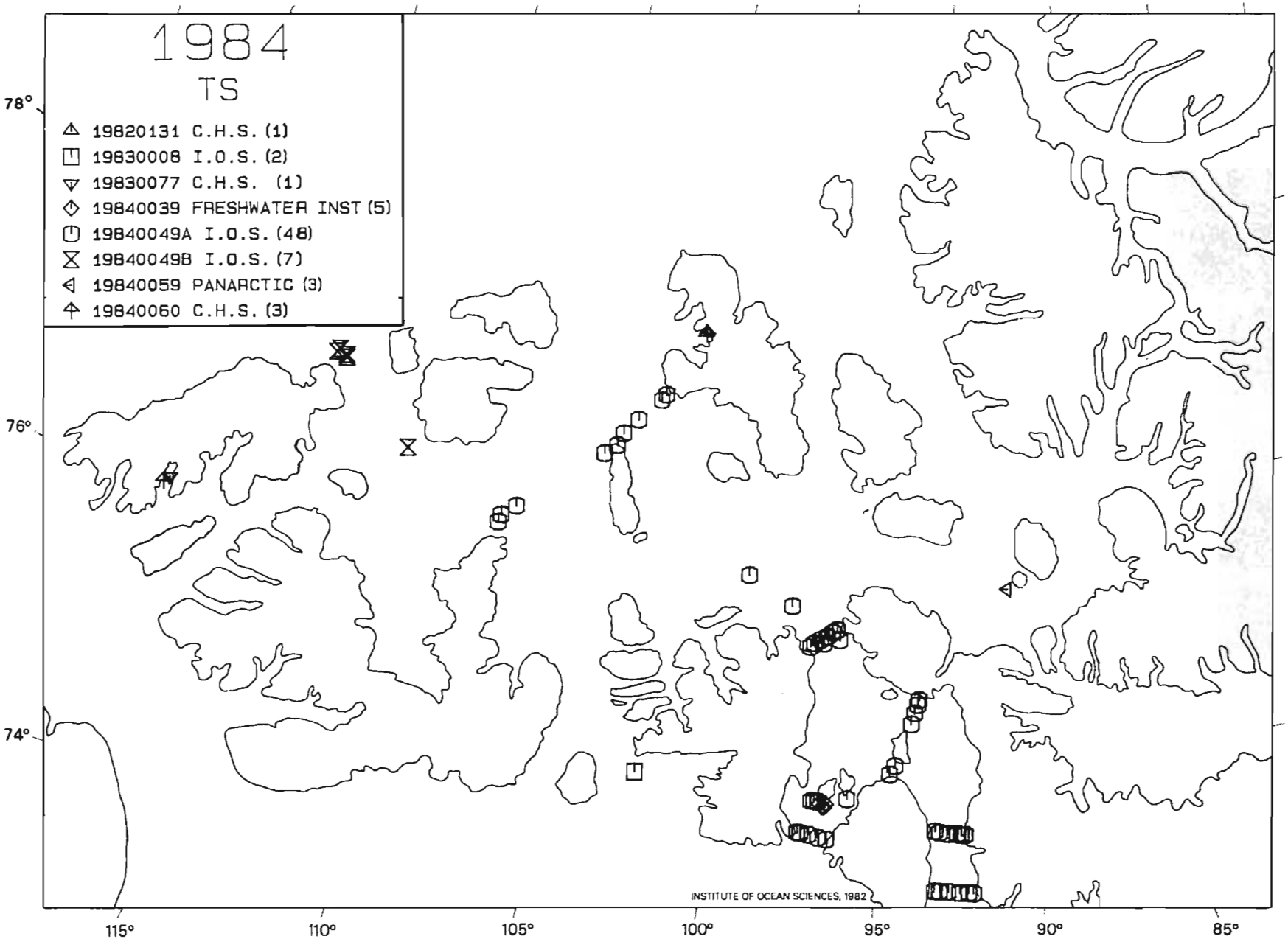
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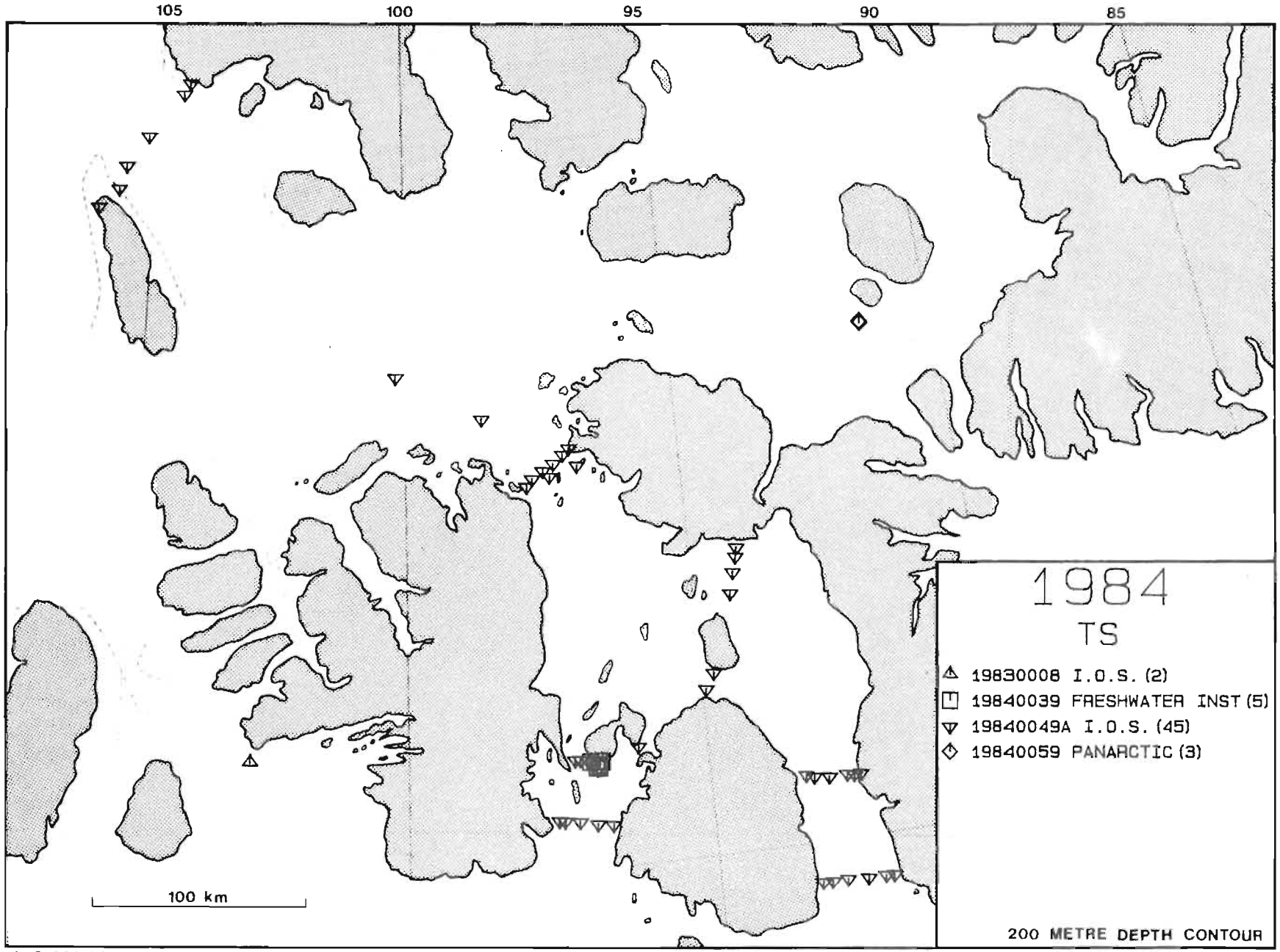

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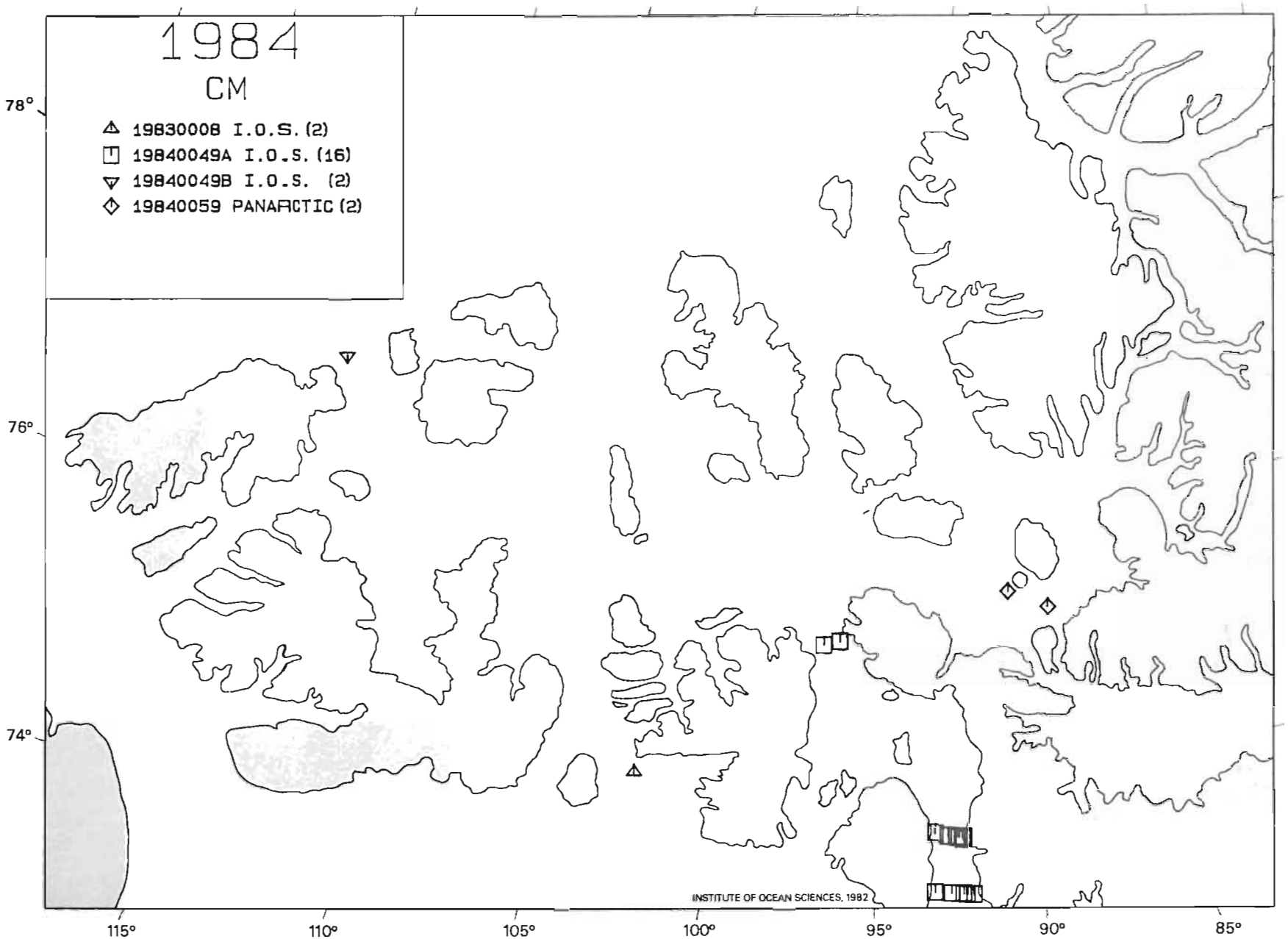
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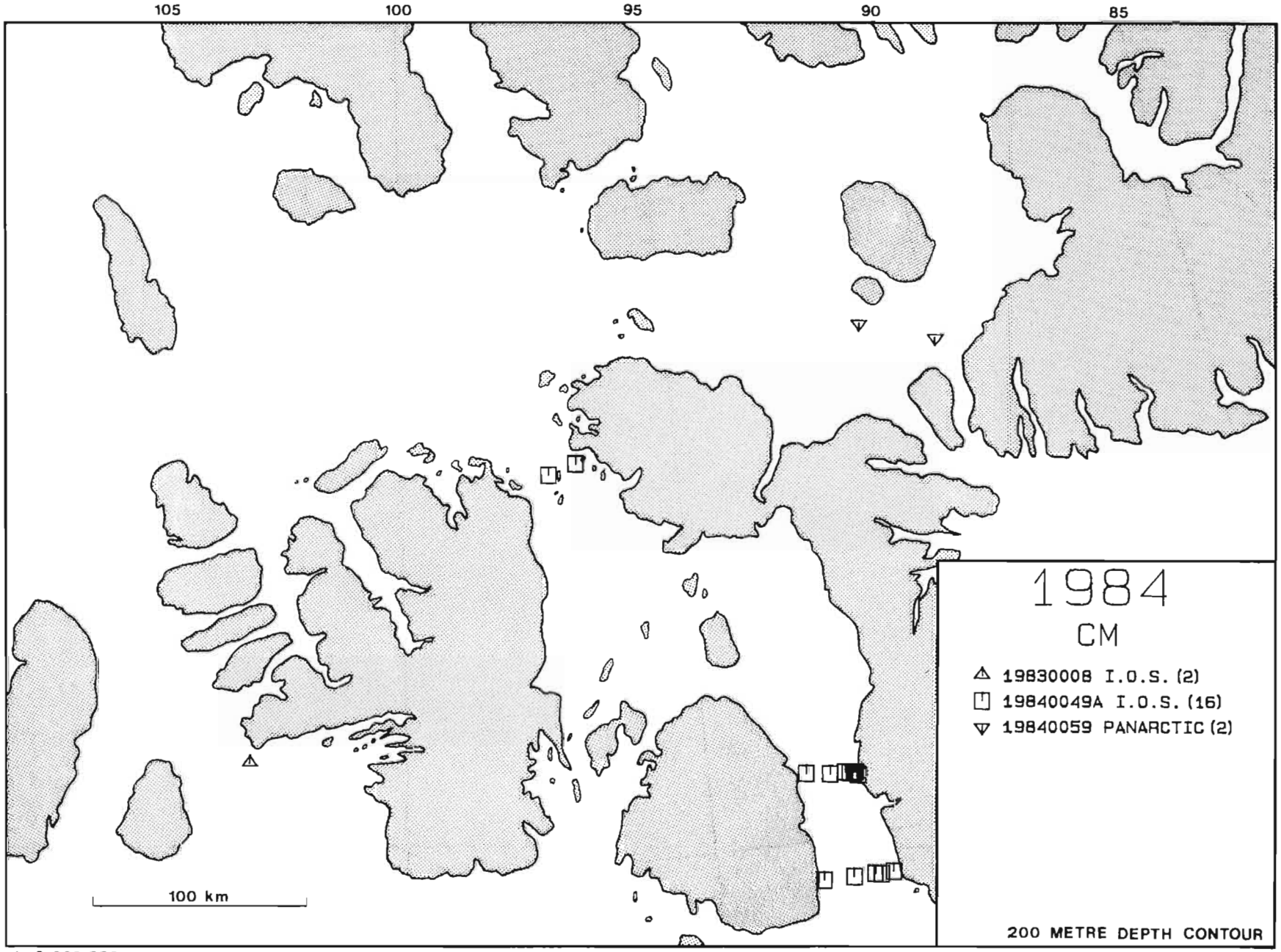

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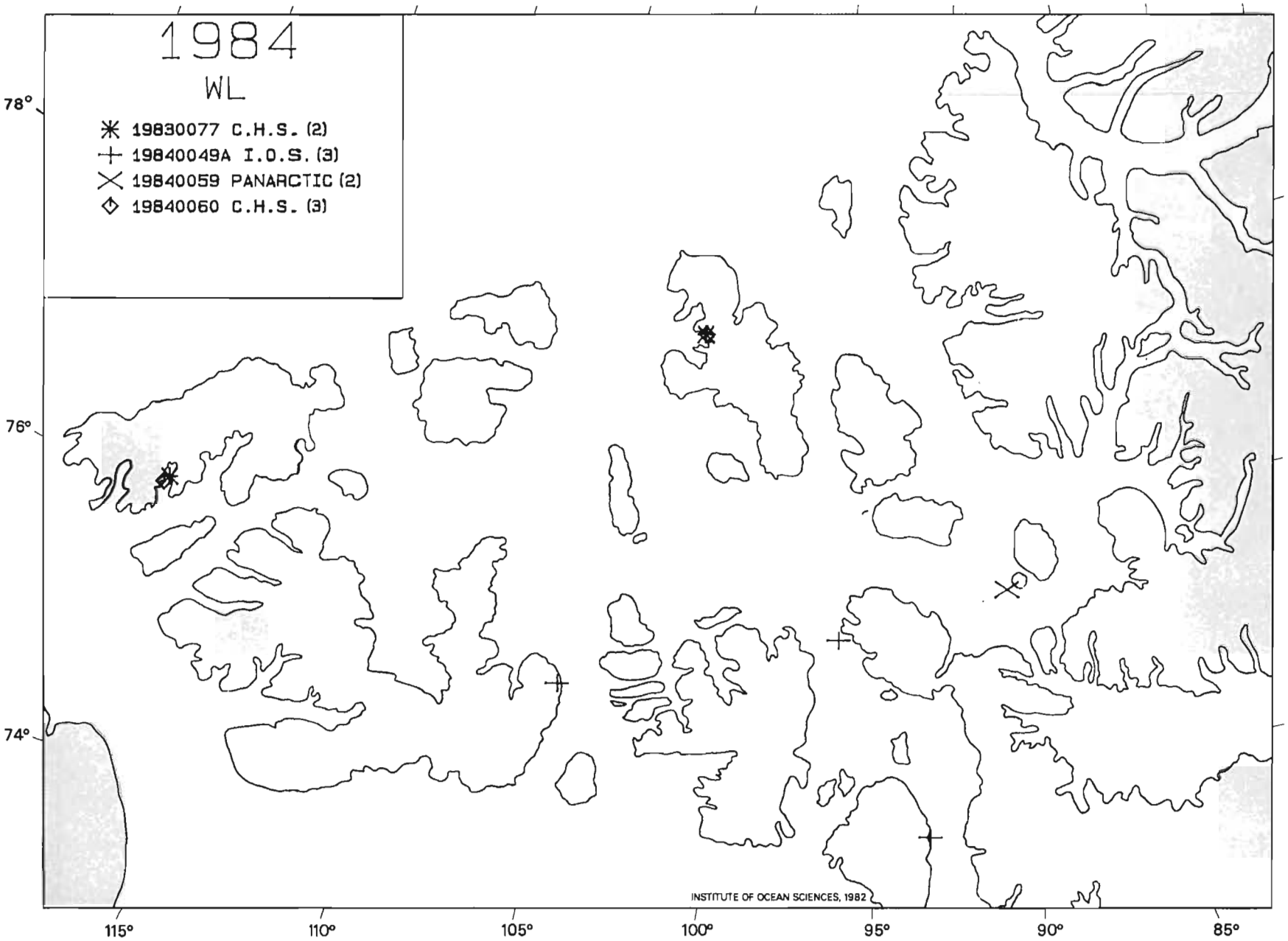
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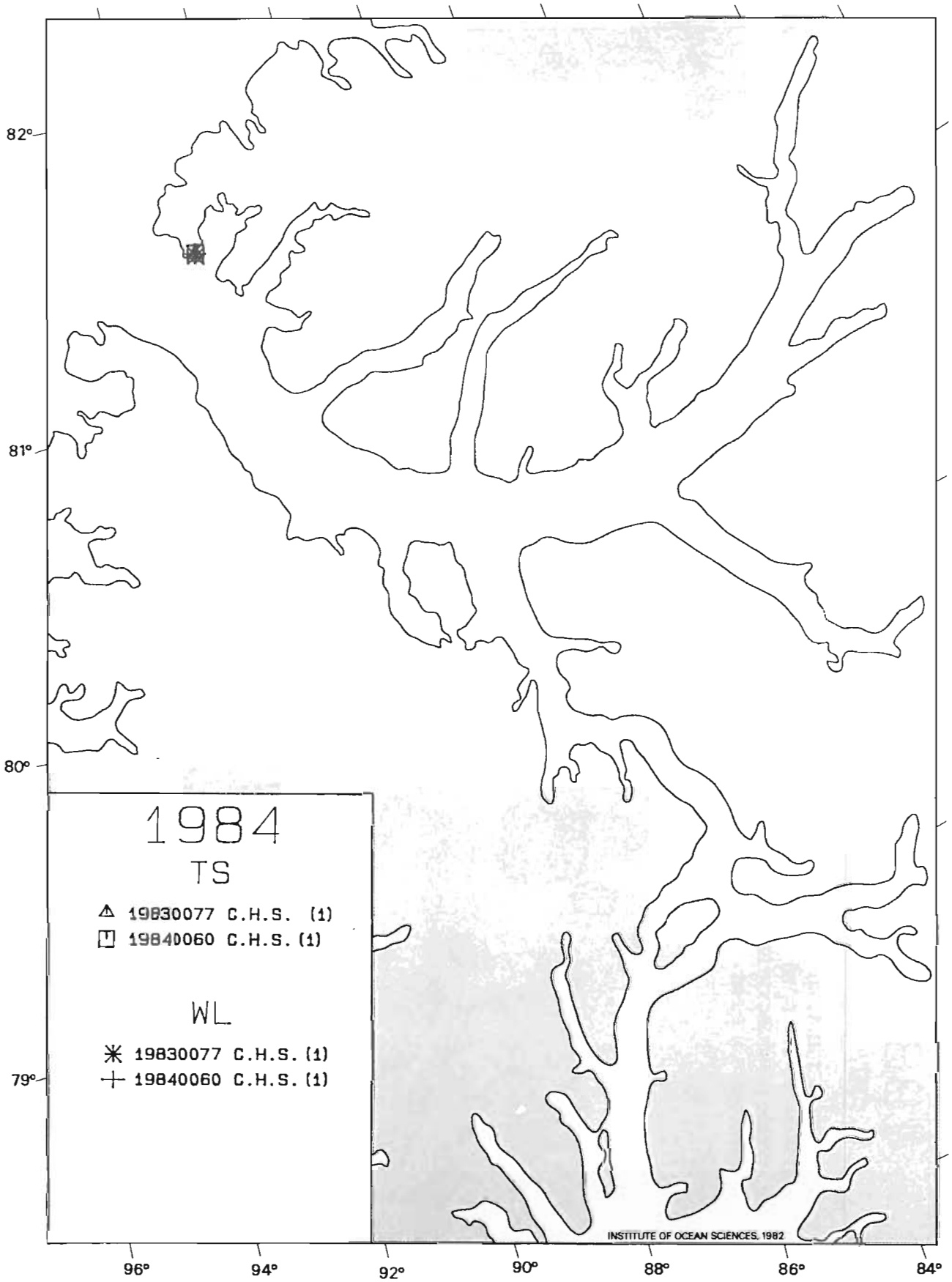
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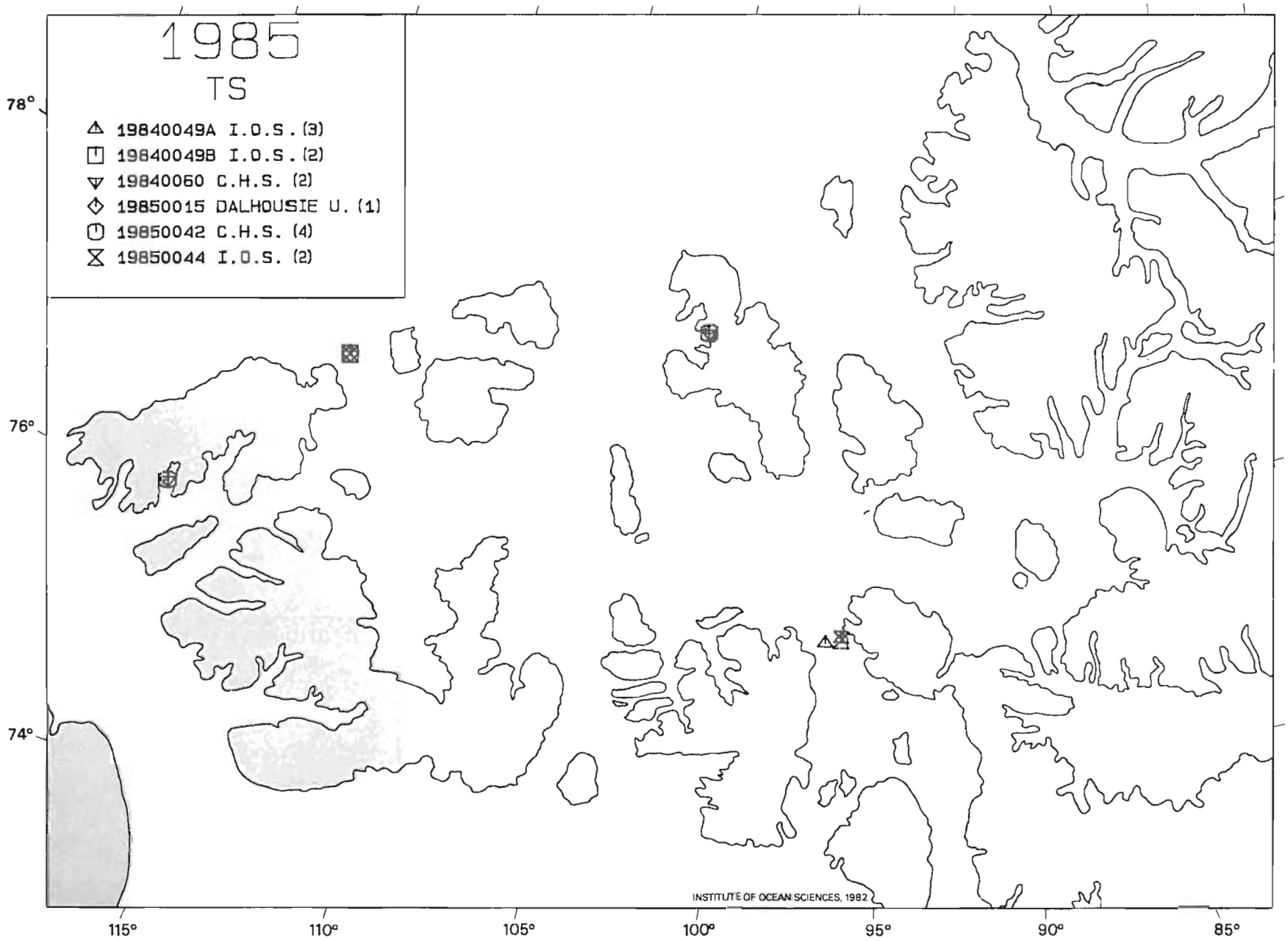
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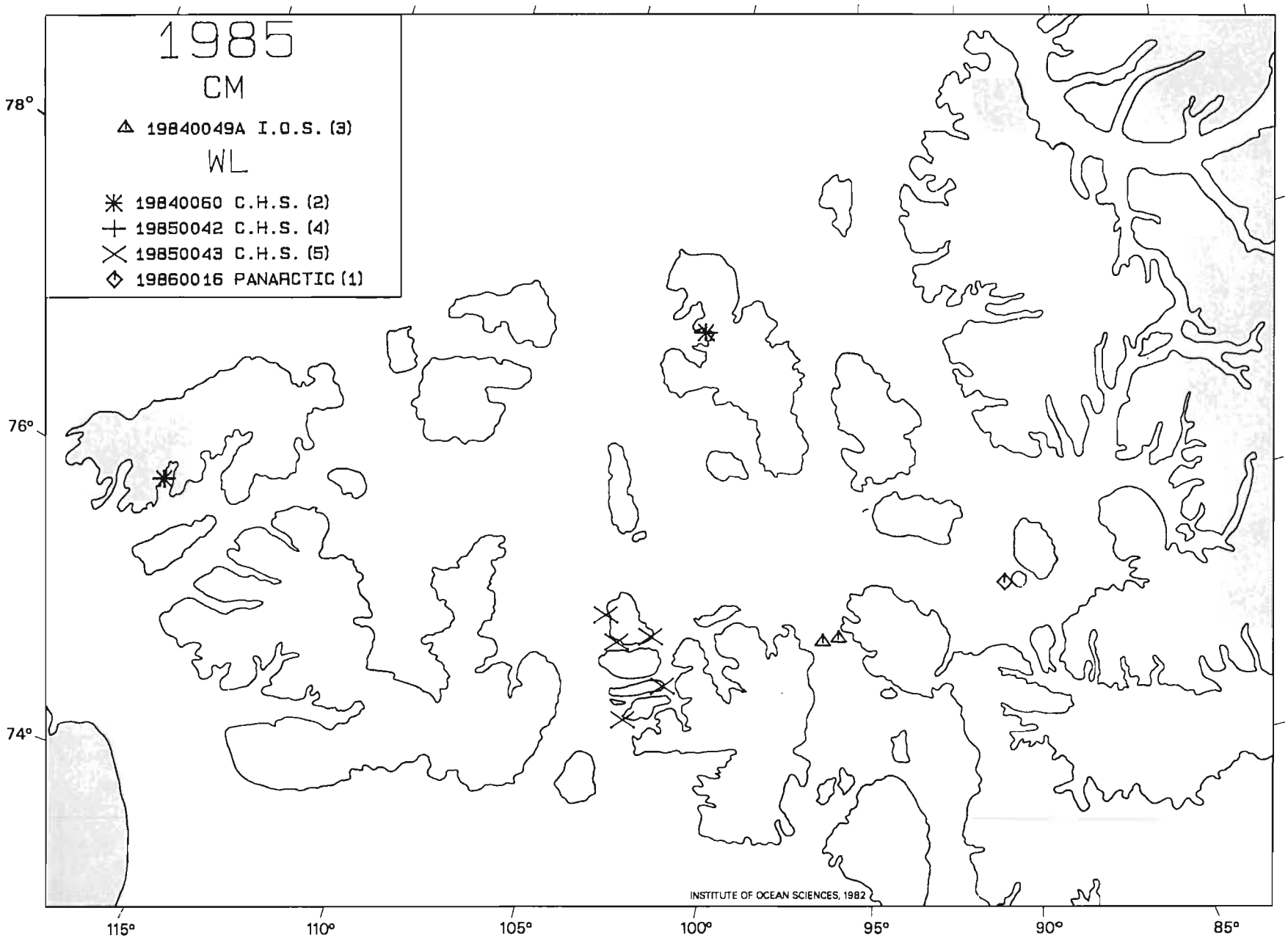
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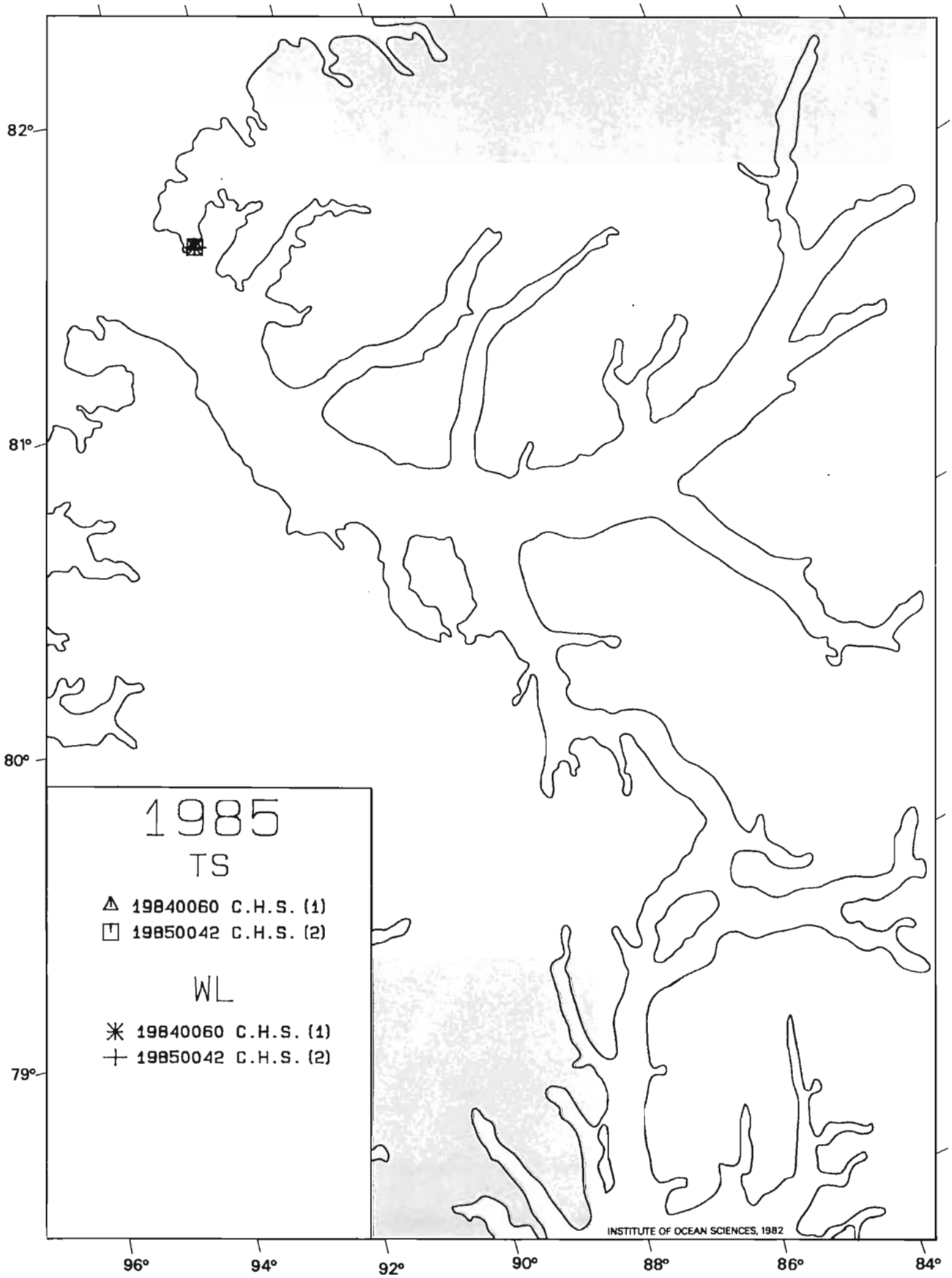
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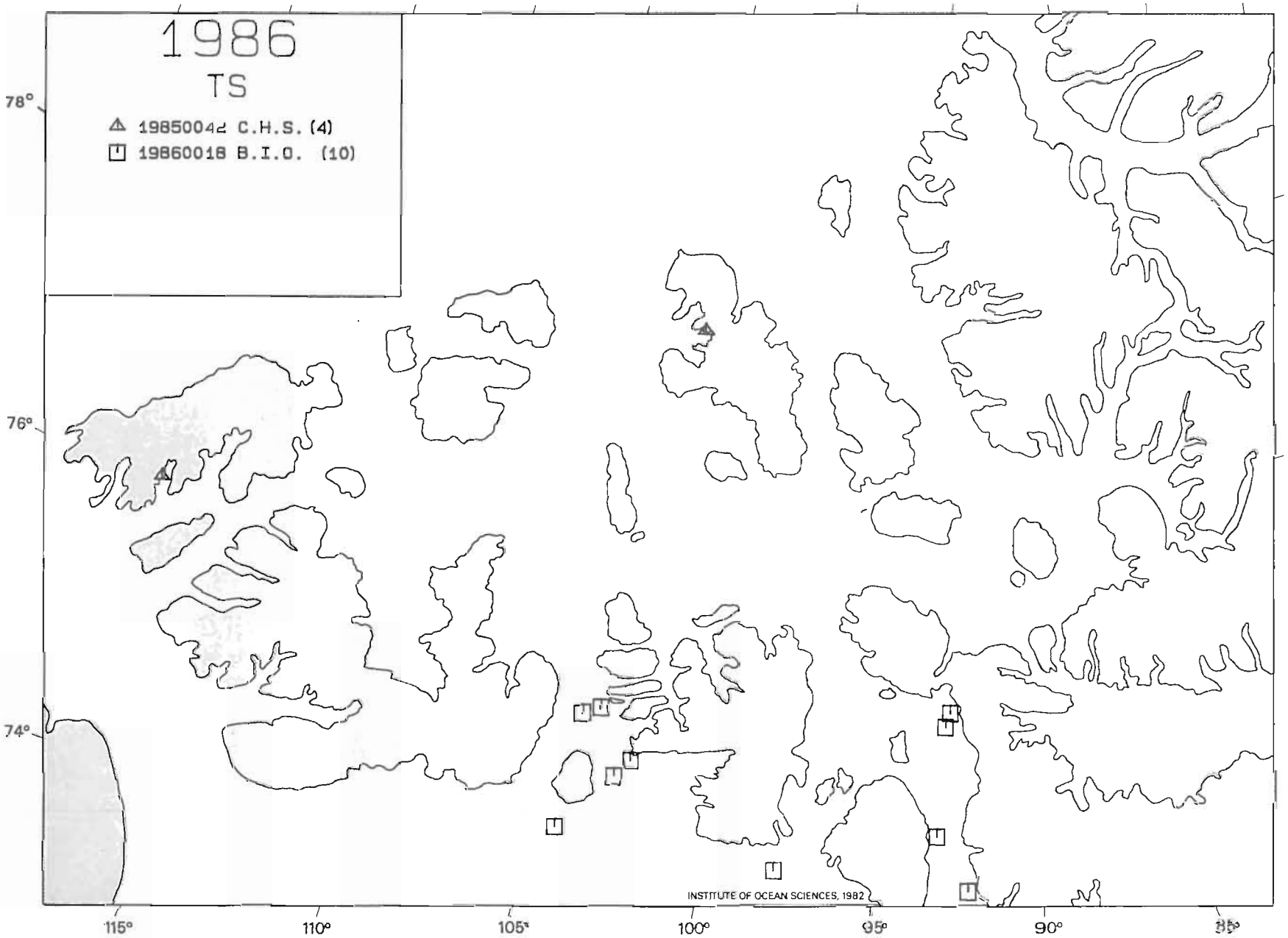
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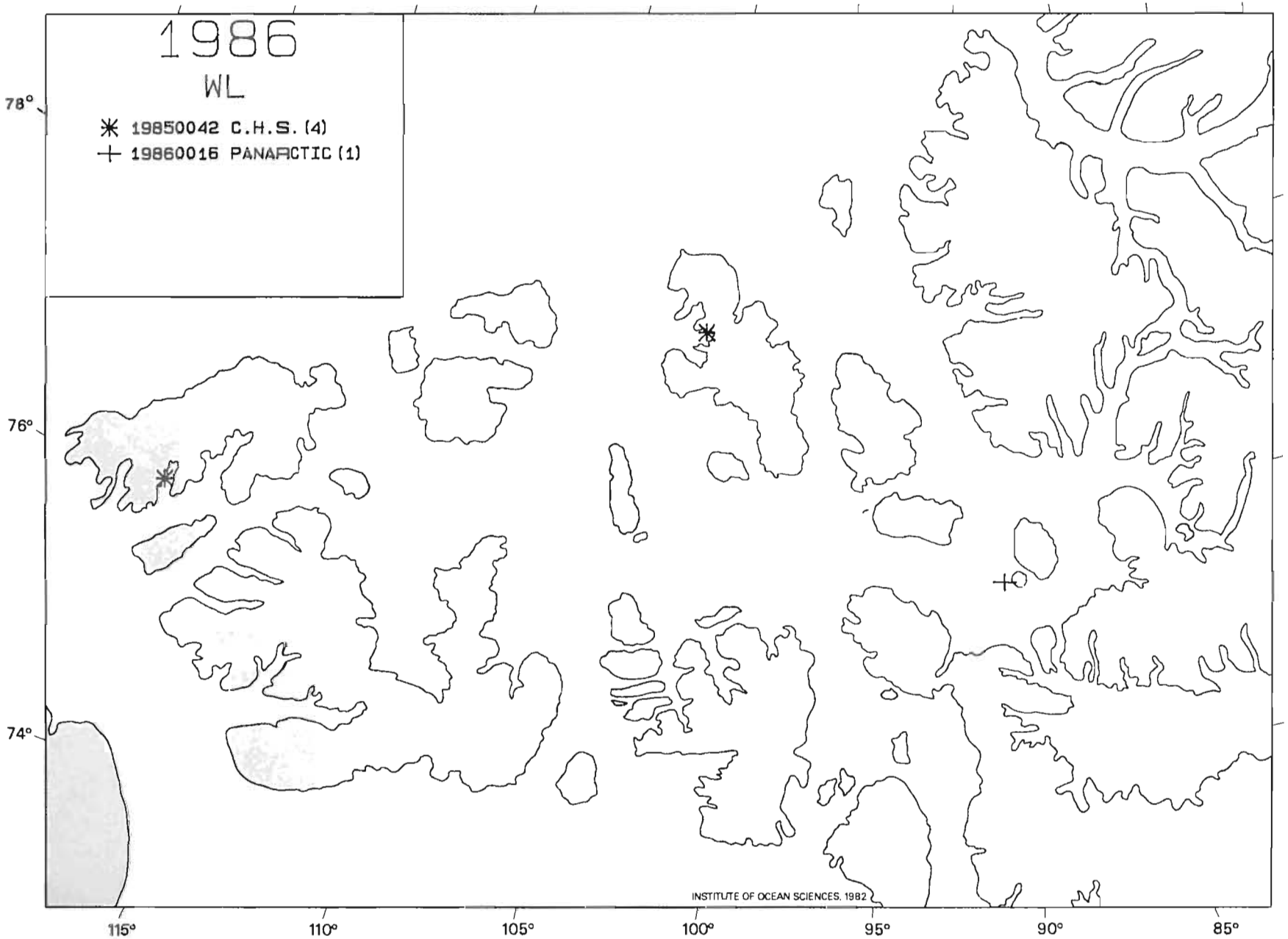
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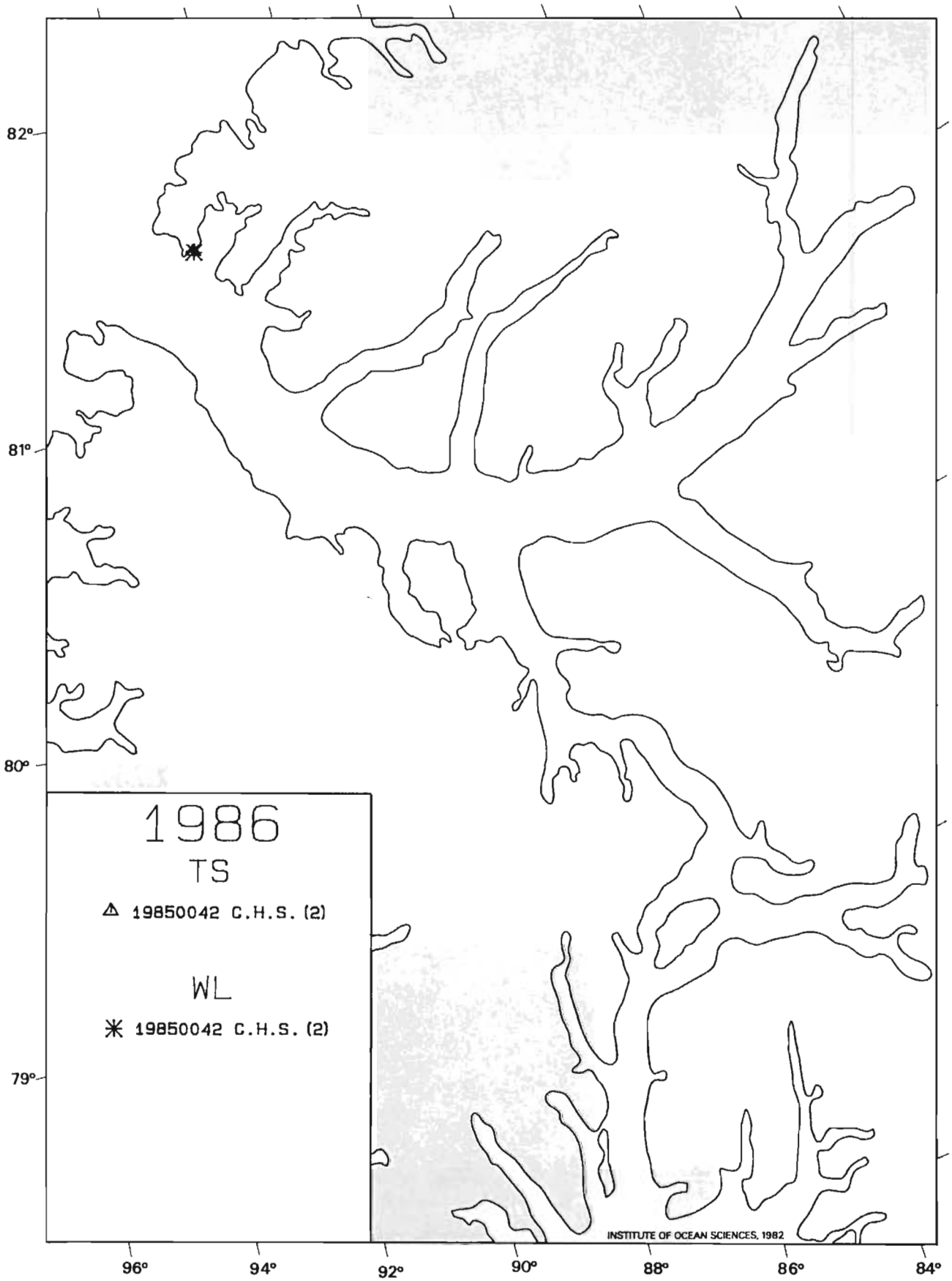
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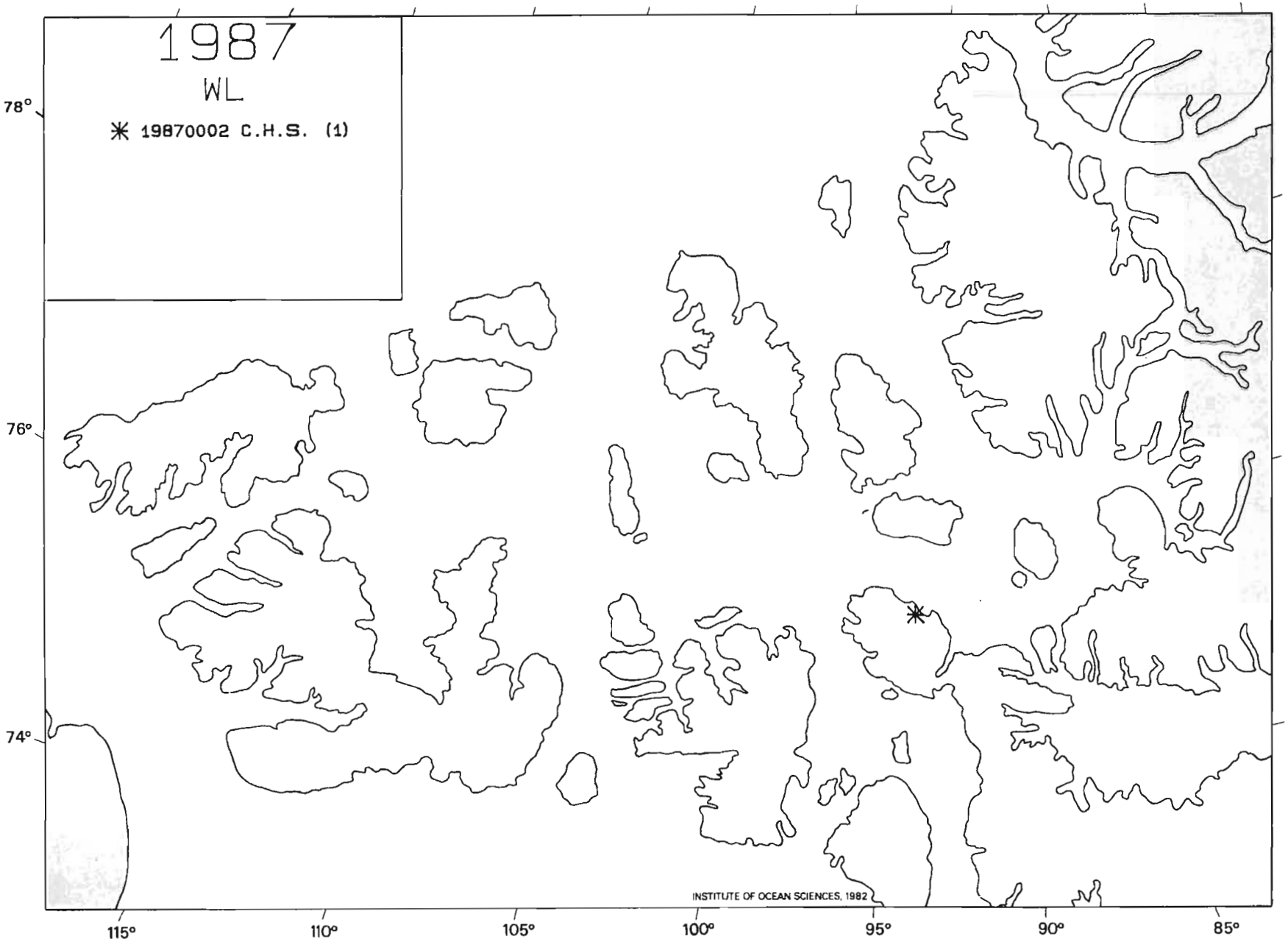
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10. INDEXES

This section contains three indexes to the data sets.

Index 10.1 is a geographical index which provides a listing by sub-area. All data sets with any measurements in a particular sub-area (Figure 1) are listed by I.D. number under that sub-area.

Index 10.2 classifies the data sets by measurement type, under three main categories: temperature-salinity, current meter and water level.

Index 10.3 lists references for each data set by number. The data-set number appears at the left-hand side of the page, with references listed to the right.

10.1 GEOGRAPHICAL INDEX

10.2 MEASUREMENT TYPE INDEX

Temperature-Salinity

19460001
19480001
19520003
19540001
19570003
19600005
19600007
19610003
19610004
19610005
19610009
19620005A
19620005B
19620006
19630010
19640004
19640005
19640008
19650005
19660010
19670002
19670005
19680001
19680015
19690014
19690015
19700017
19700018
19710015
19720011
19720023
19730006
19730008
19730013
19730015
19740014A
19740018
19740025
19740118
19740121
19740134
19750016
19750017
19750018
19750019
19750020
19750021
19750022
19750023
19750039
19750138
19760010
19760014
19760015
19760016
19760017
19760018
19770016
19770019
19770022
19770023
19770024
19770025
19770026
19770119
19780007
19780010
19780011
19780012
19780013
19780014
19790018
19790019
19790020
19790022
19800013
19800014
19810007
19810108
19820003
19820107
19820130
19820131
19830004A
19830005
19830008
19830076
19830077
19840039
19840049A
19840049B
19840059
19840060
19850015
19850042
19850044
19860018

Current-Meter

19610009
19670002
19680015
19730006
19730008
19740018
19740025
19740134
19750016
19750017
19750018
19750019
19750020
19750021
19750022
19750039
19760014
19760015
19760016
19760017
19770022
19770023
19770024
19770025
19770026
19770033
19780007
19780010
19780011
19780012
19780013
19780014
19790017
19790018
19790019
19790020
19790022
19800013
19800014
19820129A
19820129B
19820130
19830008
19830076
19840049A
19840049B
19840059
19820130
19820131
19830008

Water-Level

18190001
18520001
18530001
19490001
19510007
19520003
19540010
19590004
19620013
19630010
19640008
19680008
19690015
19690016
19700017
19700018
19720023
19730007
19730013
19730015
19740025
19750017
19750020
19750021
19750039
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19790021
19790022
19800014
19800015
19810019
19810116
19810117
19830076
19830077
1940049A
19840059
19840060
19850042
19850043
19870002

10.3 INDEX OF REFERENCES BY DATA-SET NUMBER

This section lists references for each data set by number. The data set number appears at the left hand side of the page, with references listed to the right. Also indicated is whether the reference is a main or primary one (Y), or else a later reference which uses or further discusses the data (N).

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
18190001	Y	Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p.
18190001	Y	Parry, W.E., 1821. Journal of a Voyage for the Discovery of the Northwest Passage. 2nd ed. John Murray, London. 18520001 Y Anon., undated. Accounts and Papers, Arctic expeditions, 1854-55. Vol. 35: 118-120.
18520001	Y	Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p.
18530001	Y	Anon., 1875. Phil. Trans. Royal Soc., London. Vol. 165: 318-320.
18530001	Y	Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p.
19460001	Y	Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force '80. Arctic operation summer 1948. WHOI Ref. No. 49-4. 67 p.
19480001	Y	Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force 80. Arctic operation summer 1948. WHOI Ref. No. 49-4. 67 p.
19480001	Y	NODC #31EW50376
19490001	Y	MEDS WL-ID 06910
19510007	Y	MEDS WL-ID 06955
19520003	Y	MEDS #180052040, NODC #31ED50368
19520003	Y	U.S. Navy Hydrographic Office, 1954. Oceanographic observations, Arctic waters, USS Edisto and USS Atka. H.O. Pub. 618-A, U.S. Navy Hydrographi c Office, Washington, D.C. 316 p.
19540001	Y	Bailey, W.B., 1955. Oceanographic reconnaissance in the Canadian archipelago (1954). Fish. Res. Bd. Canada, MSS Rept. Biol. Sta., No. 603. 145 p.
19540001	N	Bailey, W.B., 1957. Oceanographic features of the Canadian archipelago. J. Fish. Res. Bd. Canada, 14(5): 731-769.
19540001	Y	MEDS #180354189, #180054040

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19540010	Y	MEDS WL-ID 06640, 06910
19570003	N	Collin, A.E., 1962. On the oceanography of Lancaster Sound. Ph.D. Thesis. McGill University, Montreal. 204 p.
19570003	Y	MEDS #180357244, #180057040
19590004	Y	MEDS WL-ID 06910
19600005	Y	Canadian Oceanographic Data Centre, 1964. Data record - eastern Arctic, 1960. 1964 Data Record Series No. 18. Ottawa. 204 p. plus illustrations.
19600005	Y	MEDS #181060340, #180060001
19600007	N	Collin, A.E., 1961. Oceanographic activities of the Polar Continental Shelf Project. J. Fish. Res. Bd. Canada, 18(2): 253-258.
19600007	Y	MEDS #181160338, #180060040
19610003	Y	Canadian Oceanographic Data Centre, 1966a. Arctic 1961. 1966 Data Record Series No. 12. Ottawa. 322 p.
19610003	Y	MEDS #180761344, #180061003, #180061072
19610003	N	Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago, an atlas presentation of 1961 and 1962 data. Man. Rep. Ser. # 21, Mar. Sci. Br., Energy, Mines & Res., Ottawa, 76p.
19610004	Y	Canadian Oceanographic Data Centre, 1966a. Arctic 1961. 1966 Data Record Series No. 12. Ottawa. 322 p.
19610004	Y	MEDS #181061341, #180061001, #180061072
19610005	Y	MEDS #180161339
19610009	Y	Herlinveaux, R.H., 1961. Data record of oceanographic observations made in Pacific Naval Laboratory underwater sound studies, 1961. Fish. Res. Bd. Canada. Manuscript Report Series No. 108. Ottawa. 85 p.
19610009	Y	MEDS #180961763
19620005A	Y	MEDS #180462363, #180062004
19620005A	Y	Hunter, J.G. and S.T. Leach, 1983. Hydrographic data collected during fisheries activities of the Arctic Biological Station, 1960 to 1979. Can. Data Rep. Fish. Aquat. Sci. 414. 97p.
19620005B	Y	Canadian Oceanographic Data Centre, 1963. Five Arctic Surveys. Data Record Series No. 4. Ottawa. 90 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19620005B	Y	Hunter, J.G. and S.T. Leach, 1983. Hydrographic data collected during fisheries activities of the Arctic Biological Station, 1960 to 1979. Can. Data Rep. Fish. Aquat. Sci. 414, 97p.
19620005B	N	MEDS #180462364, #180062004
19620006	N	Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic archipelago, an atlas presentation of 1961 and 1962 data. Manuscript Report Series No. 21, Marine Sciences Branch, Department of Energy, Mines and Resources, Ottawa. 76 p.
19620006	Y	Canadian Oceanographic Data Centre, 1966b. Arctic, Hudson Bay and Hudson Strait. Data Record Series No. 4. Ottawa. 247 p.
19620006	Y	MEDS #181062359, #180062086
19620013	Y	MEDS WL-ID 06765
19630010	Y	Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p.
19630010	N	Ford, W.L. and G. Hattersley-Smith, 1965. On the oceanography of the Nansen Sound fiord system. Arctic, 18(3): 158-171.
19630010	N	Hattersley-Smith, G. and H. Serson, 1964. Stratified water of a glacial lake in northern Ellesmere Island. Arctic, 10: 109-110.
19630010	N	Hattersley-Smith, G. and H. Serson, 1966. Reconnaissance oceanography over the ice of the Nansen Sound fiord system. Defence Research Board, De pt. of National Defence, Ottawa. 13 p. plus figures.
19630010	Y	Hattersley-Smith, G., 1964. Operation Tanguary: preliminary report, 1963. Defence Research Board, Department of National Defence, Ottawa. 33 p.
19630010	Y	MEDS #180763001
19640004	Y	MEDS #180264008
19640005	Y	Herlinveaux, R.H., 1965. Oceanographic observations during the Icepack V expedition to the Canadian Arctic, February 1964. Fish. Res. Bd. Canad a. Manuscript Report Series No. 198. Ottawa. 30 p.
19640008	Y	Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19640008	N	Ford, W.L. and G. Hattersley-Smith, 1965. On the oceanography of the Nansen Sound fiord system. Arctic, 18(3): 158-171.
19640008	N	Hattersley-Smith, G. and H. Serson, 1966. Reconnaissance oceanography over the ice of the Nansen Sound fiord system. Defence Research Board, Dept. of National Defence, Ottawa. 13 p. plus figures.
19640008	N	Hattersley-Smith, G., 1967. Operation Tanquary: preliminary report, 1964. Defence Research Board, Department of National Defence, Ottawa. 50 p .
19640008	Y	MEDS #180764001, MEDS WL-ID #06680
19650005	Y	Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p.
19650005	Y	MEDS #180765001
19660010	Y	Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p.
19660010	Y	MEDS #180766001
19670002	Y	Canadian Oceanographic Data Centre, 1968. Hudson Bay, Hudson Strait and Arctic. Data Record Series No. 4. Ottawa. 123 p.
19670002	Y	Herlinveaux, R.H., 1974. Surface movements in Canadian Arctic Waters with some accompanying temperature and salinity observations. Unpub. Man., Pac. Mar. Sci. Rep., Mar. Sci. Dir., Sidney, B.C., 36p.
19670002	Y	MEDS #180267013
19670002	N	Redfield, A.C. and I. Friedman, 1969. The effect of meteoric water, melt water and brine on the composition of polar sea water and of the deep waters of the ocean. Deep Sea Res. Supp. to Vol. 16: 197-214.
19670005	Y	MEDS #180767002
19680001	Y	Herlinveaux, R.H., 1970. Icepack 8/68 - oceanographic and biological observations. Fish. Res. Bd. Canada, Nanaimo, B.C., Tech. Rep. No. 159. 60 p.
19680001	Y	MEDS #180268013
19680008	Y	MEDS #C81173B01, MEDS WL-ID 06660,06680,06757,06833,06834

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19680015	Y	Hattersley-Smith, G., 1969. Canadian operation "Hazen-Tanquary", 1968. Polar Record 14(92): 646-647.
19680015	Y	MEDS #180968001
19690014	N	Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229.
19690014	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19690015	N	Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229.
19690015	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19690015	Y	MEDS #1800696670, MEDS WL-ID 06670
19690016	Y	MEDS WL-ID 06835
19700016	Y	Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates.
19700017	N	Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229.
19700017	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19700018	N	Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229.
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19700019	Y	Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates.
19710015	N	Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229.
19710015	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19720011	Y	Herlinveaux, R.H., and S.E.G. Wilson, 1974. Oceanographic observations in the Canadian Arctic, September, 1972. Marine Sciences Directorate, Pacific Region. 11 p.
19720023	Y	Frozen Sea Research Group, Institute of Ocean Sciences, Sidney, B.C. (unpublished data).
19720024	Y	Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates.
19730006	Y	Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, 1978. Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., April 1973. Institute of Ocean Sciences, Sidney, B.C., Pac. Mar. Sc. Rep. 78-4. 170 p.
19730007	Y	MEDS file C81173B01, ID #06600
19730008	Y	Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, (in preparation). Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., August-September, 1973. Institute of Ocean Sciences, Sidney, B.C.
19730012	Y	Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates.
19730013	Y	Frozen Sea Research Group, 1973. Oceanographic data report - d'Iberville Fiord, Ellesmere Island, N.W.T., March to April 1973. Pacific Marine Science Report 73-10. Mar. Sci. Dir., Environment Canada, Victoria, B.C. 123 p.
19730013	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19730014	Y	MEDS #C81173B01, WL-ID 06600
19730015	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19740014A	Y	Thomson, D., S. Woods and J. Acreman, 1975. Marine ecology survey in the central portion of the Canadian Arctic Islands, 1974. Marine Sciences Centre, McGill University. Report prepared for Polar Gas Project, 77 p.
19740018	Y	Beak Consultants Ltd., 1974. Environmental assessment and oil spill contingency plan in support of an application for drilling authority to Panarctic - Jackson Bay G-16. Report for Panarctic Oils Ltd., Calgary, Alberta.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19740025	Y	Frozen Sea Research Group, 1975. Oceanographic data report - d'Ibervlle Fiord, Ellesmere Island, N.W.T., March to April 1974, August 1974. Pac ific Marine Science Report 75-1, Institute of Ocean Sciences, Sidney, B.C. 139 p.
19740025	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19740118	Y	Pluritec Consultants Ltd., 1975. Panarctic Oil Ltd., Jackson Bay, Ellef Ringnes Island, N.W.T.; Baseline, environmental and resource data on flora, fauna, sediments and soils. Report for Panarctic Oil Ltd., Calgary, Alta. 174 p.
19740121	Y	B. C. Research, 1975. Environmental Study of Polaris Mine, Little Cornwallis Island. Report to Cominco Ltd.
19740121	Y	Dobrocky Seatech Ltd., 1975 (poss. 1974?). Report of the hydrographic and limnological survey at Little Cornwallis Island, Aug. 1974.
19740134	Y	Unpub. data, Polar Gas Project; avail. from I.O.S.
19750016	Y	Beak Consultants Ltd., 1975c. Preliminary report on current measurements for Panarctic site between Emerald Isle and Melville Island. Report to Panarctic Oils Ltd., Calgary, Alberta. 13 p.
19750016	Y	Beak Consultants Ltd., 1976a. Analysis of oceanographic data, Cape Grassy. Report to Panarctic Oils Ltd., Calgary, Alberta. 23 p. plus unnumbered appendices.
19750017	Y	Beak Consultants Ltd., 1976b. Analysis of oceanographic data - Warren Point - Northeast Drake. Report to Panartic Oils Ltd., Calgary, Alberta. 40 p. plus appendices.
19750018	Y	Beak Consultants Ltd., 1976c. Analysis of oceanographic data for APOA project #79. Report to Panarctic Oils Ltd., Calgary, Alberta.
19750019	Y	Beak Consultants Ltd., 1975b. Biological Investigations - Panarctic, Gulf et al., East Drake I-55. Report to Panarctic Oils Ltd., Calgary, Alberta.
19750020	Y	Beak Consultants Ltd., 1976d. Analysis of oceanographic data - Hecla P-62. Report to Panarctic Oils Ltd., Calgary, Alberta. 31 p. plus appendices.
19750021	Y	Beak Consultants Ltd., 1976e. Analysis of oceanographic data - Jackson Bay G-16. Report to Panarctic Oils Ltd., Calgary, Alberta. 25 p. plus appendices.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19750022	Y	Innovative Ventures Ltd., 1976. Data report for Panarctic Oils Ltd. (APOA 95), Calgary, Alberta, 5 volumes.
19750023	Y	Beak Consulants Ltd., 1975a. Marine surveys - Jackson Bay, a pre-operational study of the environment of Jackson Bay. Report to Panarctic Oils Ltd., Calgary, Alberta. 13 p. plus appendices.
19750039	Y	Frozen Sea Research Group, 1976a. Oceanographic data report, d'Iberville Fiord, Ellesmere Island, N.W.T., March to April 1975. Pacific Marine S ciences Report 76-19, Institute of Ocean Sciences, Sidney, B.C. 166 p.
19750039	N	Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Can. 33: 2272-2285.
19750040	Y	MEDS WL-ID 06835
19750138	N	Lake, R.J.A. and E.R. Walker. 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285.
19750138	Y	Unpublished data. Mr. R.A. Lake, Institute of Ocean Sciences, Sidney, B.C.
19760010	Y	Thomson, D.H., C.M. Martin and W.E. Cross, 1986. Identification and characterization of Arctic nearshore benthic habitats. Can. Tech. Rep. Fish . Aquat. Sci. 1434, vii + 70 p.
19760014	Y	Beak Consultants Ltd., 1976f. Analysis of oceanographic data, Hecla M-25. Report to Panarctic Oils Ltd., Calgary, Alberta. 38 p. plus appendices.
19760015	Y	Innovative Ventures Ltd., 1976. Data report for Panarctic Oils Ltd. (APOA 95), Calgary, Alberta, 5 volumes.
19760016	Y	Peck, G.S., 1977. Arctic oceanographic data report 1976 - Penny Strait. Data Report Series 77-2, Ocean and Aquatic Sciences, Canada Centre for Inland Waters, Burlington, Ontario. 38 p. plus appendices.
19760017	Y	Frozen Sea Research Group, 1976b. Oceanographic data, Byam and Austin Channels, N.W.T. Institute of Ocean Sciences, Sidney, B.C.(unpublished manuscript available from Frozen Sea Research Group, Institute of Ocean Sciences).
19760017	Y	Greisman, P. and R.A. Lake, 1978. Current observations in the channels of the Canadian Arctic archipelago adjacent to Bathurst Island. Pacific Marine Science Report 78-23. Institute of Ocean Sciences, Sidney, B.C. 127 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19760018	Y	Frozen Sea Research Group, 1976c. Oceanographic data report, d'Iberville Fiord, Greely Fiord, Eureka Sound, Ellesmere Island, N.W.T., March 197 6. Pacific Marine Science Report 76-20, Institute of Ocean Sciences, Sidney, B.C. 201 p.
19760019	N	Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. Calgary, Alberta. 22 p. + appendices.
19770016	Y	Thomson, D.H., C.M. Martin and W.E. Cross, 1986. Identification and characterization of Arctic nearshore benthic habitats. Can. Tech. Rep. Fish . Aquat. Sci. 1434, vii + 70 p.
19770019	Y	Frozen Sea Research Group, 1977a. Oceanographic data report - D'Iberville Fjord, Ellesmere Island, N.W.T., March, 1977. Pacific Marine Scienc e Report 77-23. Institute of Ocean Sciences, Sidney, B. C. 101 p.
19770019	N	Greisman, P., 1979. On upwelling driven by the melt of ice shelves and tidewater glaciers. Deep-Sea Res., 26A: 1051-1065.
19770022	Y	Innovative Ventures Ltd., 1977a. Oceanographic data report for Hecla C-58, spring 1977 data. Report to Panarctic Oils Ltd., Calgary, Alberta.
19770023	Y	Innovative Ventures Ltd., 1977b. Summary report, ice motion, oceanographic and meteorological data (Project APOA 118). Report to Panarctic Oils Ltd., Calgary, Alberta, 4 volumes.
19770024	Y	Panarctic Oils Ltd., 1978a. Cape Grassy I-34 oceanographic data report. Calgary, Alberta.
19770025	Y	Panarctic Oils Ltd., 1978b. Roche Point O-43 oceanographic data report. Calgary, Alberta.
19770026	Y	Frozen Sea Research Group, 1977b. Oceanographic data, Crozier and Pullen Straits, N.W.T., March to April 1977. Pacific Marine Science Report 77 -20. Institute of Ocean Sciences, Sidney, B.C.
19770026	Y	Greisman, P. and R.A. Lake, 1978. Current observations in the channels of the Canadian Arctic Archipelago adjacent to Bathurst Island. Pac. Mar . Sci. Rep. 78-23. I.O.S., Sidney, B.C. 127p.
19770033	Y	Fissel, D.B., 1982. Current meter measurements from the SALDAS buoys, 1977-1979: a data report. Report to Petro-Canada, Calgary, Alberta by Arctic Sciences Ltd., Sidney, B.C. 47 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19770119	Y	B.C. Research, 1977 (poss. 1978?). Polaris Mine Aquatic Environmental Studies, 1977. Report prepared for Cominco Ltd.
19780007	Y	Peck, G.S., 1980a. Arctic oceanographic data report 1978, Volume 2. Data Report Series 80-1, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 163 p.
19780007	Y	Prinsenberg, S.J., 1978. Arctic oceanographic data report 1978, Volume I. Data Report Series 78-4, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 211 p.
19780010	N	Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. 22 p. + appendices.
19780011	Y	Panarctic Oils Ltd., 1979d. Atmospheric and oceanographic data report, N.E. Cornwall and Edinburgh Sea stations (AIEG Ice Motion Program 1977/7 8). Calgary, Alberta.
19780012	Y	Frozen Sea Research Group, 1981. Oceanographic data report, Crozier and Pullen Straits, N.W.T., Wellington Channel, N.W.T., March-April, 1978. Institute of Ocean Sciences, Sidney, B.C.
19780013	Y	Panarctic Oils Ltd, 1979a. Hazen F-54 oceanographic data report. Calgary, Alberta.
19780014	Y	Panarctic Oils Ltd., 1979b. Desbarats B-73 oceanographic data report. Calgary, Alberta. 17 p. plus appendices.
19780014	Y	Strandberg, A.G., 1979. Desbarats B-73 Offshore Drilling Ice Platform, completed project report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd.
19780016	Y	Masterson, D.M., and A.G. Strandberg, 1978. Drake F-76 Offshore Drilling Ice Platform, completed project report submitted to Panarctic Oils Ltd .
19780016	Y	Masterson, D.M., and V. Neth, 1977. Offshore drilling ice platforms for West-Hi Rig #1 at Drake F-76 and Roche I-43. Report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd.
19780016	N	Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. 22 p. + appendices.
19790017	Y	Fissel, D.B., 1982. Current meter measurements from the SALDAS buoys, 1977-1979: a data report. Report to Petro-Canada, Calgary, Alberta by Arctic Sciences Ltd., Sidney, B.C. 47 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19790018	Y	Masterson, D.M., and A.G. Strandberg, 1979. Whitefish H-63 offshore drilling ice platforms. Completed project report submitted by Fenco Consult ants Ltd. to Panarctic Oils Ltd.
19790018	Y	Panarctic Oils Ltd., 1979c. Whitefish H-63 oceanographic data report. Calgary, Alberta.
19790019	Y	Peck, G.S., 1980b. Arctic oceanographic data report 1979, Sverdrup Basin, Volume 1. Data Report Series 80-2, Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 228 p.
19790019	Y	Peck, G.S, 1980c. Arctic oceanographic data report 1979, Sverdrup Basin, Volume 2. Data Report Series 80-3, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 91 p.
19790020	Y	Panarctic Oils Ltd., 1980a. Whitefish H-63A oceanographic data report. Calgary, Alberta. 17 p. plus appendices.
19790020	Y	Strandberg, A.G. and M.C. Hall, 1980. Whitefish H-63A offshore drilling ice platform. Completed project report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd.
19790021	Y	Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data).
19790021	Y	Sandilands R.G., R.R. Solvason, and D.A. St. Jacques, 1985. 1979 Arctic tidal survey data report. CHS, Central Reg. Bayfield Lab. for Mar. Sc. and Surveys, Burlington, Ontario. 4 p. plus unnumbered figs and tables.
19790022	Y	Panarctic Oils Ltd., 1980b. Balaena D-58, Char G-07, oceanographic data report. Calgary, Alberta. 16 p. plus appendices.
19790022	N	Van Ieperen, W.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd., Calgary , Alberta, 22 p. plus appendices.
19800013	Y	Topham, D.R., R.G. Perkin, S.D. Smith, R.J. Anderson, and G. Den Hartog, 1983. An investigation of a polynya in the Canadian Archipelago 1, introduction and oceanography. J. Geophys. Res. vol. 88, no. C5: 2888-2899.
19800014	Y	Juhasz, T.A., 1980. Polar Gas Pipeline Survey: ocean current measurement program Lougheed Island to Melville Island, N.W.T. Dobrocky Seatech Ltd., Victoria, B.C., Report to the Polar Gas Project. 41 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19800015	Y	Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data).
19810007	Y	Brooks, D.J., 1981. Arctic oceanographic survey Barrow Strait - 1981 field report. Unpubl. internal report. Ocean and Aquatic Sciences, Burlington, Ontario. 66 p.
19810007	Y	Prinsenberg, S.J. and D. Sosnoski, 1983. Barrow Strait oceanographic data report 1981. Vol. 1, DRS 83-2, Bayfield Lab. Mar. Sc. and Surveys. Burlington, Ont. 175 p.
19810007	N	Prinsenberg, S.J. and E.B. Bennett, 1987. Analysis of current time series and current profile data from Peel Sound, Canadian Arctic. Can. Tech. Rep. Hydrogr. Ocean Sc. No. 102, vii + 101 p.
19810019	Y	Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data).
19810108	Y	Unpub. data; Freshwater Institute; B.W. Fallis.
19810116	Y	Sandilands, R.G., R.R. Solvason and D.A. St. Jacques, 1985. 1981 tidal survey of Norwegian Bay, N.W.T., Data Report,CHS, Central Region, Bayfield Laboratory for Mar. Sc. and Surveys, Burlington, Ont. 4 p. plus unnum. figs. and tables.
19810117	Y	Fenco Consultant Ltd., 1981. Completed project report. Offshore drilling ice platform, CISCO B-66. Unpub. report for Panarctic Oils Ltd. 35 p. plus unnumbered appendices.
19820003	Y	Fissel, D.B., D.N. Knight and J.R. Birch, 1984. An oceanographic survey of the Canadian Arctic Archipelago March, 1982. Can. Contractor Rept. Hydrogr. Ocean. Sci. No. 15. 415 p.
19820003	N	Melling, H., R.A. Lake, D.R. Topham and D.B. Fissel, 1984. Oceanic thermal structure in the western Canadian Arctic. Cont. Shelf Res., 3(3): 233-258.
19820107	Y	Unpub. data; Mar. Ecol. Lab, B.I.O., Dartmouth, N.S.; Dr. N. Watson.
19820129A	Y	Van Ieperen, M.P., 1983. Norwegian Bay ice motion and oceanographic study 1981/1982. Panarctic Oils Ltd., Calgary, Alberta. 14 p. plus unnumbered figs.
19820129B	Y	Van Ieperen, M.P., 1983. Norwegian Bay ice motion and oceanographic study 1981/1982. Panarctic Oils Ltd., Calgary, Alberta. 14 p. plus unnumbered figures.
19820130	Y	Van Ieperen, M.P., 1982a. Cape Mamen F-24, meteorologic and oceanographic data report - 1982. Panarctic Oils Ltd., Calgary, Alberta. 23 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19820130	Y	Van Ieperen, M.P., 1982b. Sculpin K-08, meteorologic and oceanographic data report - 1982. Panarctic Oils Ltd., Calgary, Alberta. 23 p.
19820131	Y	Unpub. data; Can. Hydr. Ser., I.O.S., Sidney, B.C.
19830004A	Y	Unpub. data; I.O.S., Sidney, B.C.; R. Perkin.
19830005	Y	Fissel, D.B., D.D. Lemon, and D.N. Knight, 1984. An oceanographic survey of the Canadian Arctic Archipelago, March 1983. Can. Contr. Rep. Hyd rogr. Ocean Sci. No. 16. 355 p.
19830008	Y	Buckingham, W.R., R.A. Lake and H. Melling, 1987a. Temperature and salinity measurements in the Northwest Passage, Vol. 2, March 1983. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 39, 152 p.
19830008	Y	Buckingham, W.R., R.A. Lake and H. Melling, 1987c. Current and sea-level measurements in the Northwest Passage, Vol. 2 March 1983 - April 1984. Can. Data Rep. Hydrogr. Ocean Sci., No. 51, 84 p.
19830008	N	Fissel, D.B., J.R. Birch, H. Melling and R.A. Lake, 1988. Non-tidal flows in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 98 , 143 p.
19830008	N	Stronach, J.A., J.A. Helbig, S.S. Salvador, H. Melling and R.A. Lake, 1987. Tidal elevations and tidal currents in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 97, 329 p.
19830008	N	de Lange Boom, B.R., H. Melling and R.A. Lake, 1987. Late winter hydrography of the Northwest Passage: 1982, 1983 and 1984. Can. Tech. Rep. Hyd rogr. Ocean Sci., No. 79, 165 p.
19830076	Y	Panarctic Oils Ltd., 1983. Panarctic et al. Cape MacMillan 2K-15 Oceanographic data report - 1983. Panarctic Oils Ltd., Calgary, Alberta. 35 p.
19830077	Y	Unpub. data; Can. Hydr. Ser.; I.O.S., Sidney, B.C.
19840039	Y	Unpub. data; Dept. Fish. Oc., Winnipeg, Man.; B.W. Fallis.
19840049A	Y	Buckingham, W.R., R.A. Lake and H. Melling, 1987d. Current and sea-level measurements in the Northwest Passage, Vol. 3 March 1984 - April 1985 . Can. Data Rep. Hydrogr. Ocean Sci., No. 51, 139 p.
19840049A	N	Fissel, D.B., J.R. Birch, H. Melling and R.A. Lake, 1988. Non-tidal flows in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 98, 143 p.

DATASET	PRIMARY	REFERENCE AND/OR MEDS, NODC ID NUMBER
19840049A	N	Buckingham, W.R., R.A. Lake and H. Melling, 1987b. Temperature and salinity measurements in the Northwest Passage, Vol. 3, March - April 1984. Can. Data Rep. Hydrogr. Ocean Sci., No. 39, 604 p.
19840049A	N	de Lange Boom, B.R., H. Melling and R.A. Lake, 1987. Late winter hydrography of the Northwest Passage: 1982, 1983 and 1984. Can. Tech. Rep. Hy drogr. Ocean Sci., No. 79, 165 p.
19840049A	N	Stronach, J.A., J.A. Helbig, S.S. Salvador, H. Melling and R.A. Lake, 1987. Tidal elevations and tidal currents in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 97, 329 p.
19840049B	Y	Unpub. data; Inst. Ocean. Sc., Sidney, B.C.; R. Perkin.
19840059	Y	Van Ieperen, M.P., 1984. Panarctic et al. Buckingham O-68 Oceanographic data report - 1984. Panarctic Oils Ltd., Calgary, Alberta. 24 p. plus unnumbered appendices.
19840059	Y	Dobrocky Seatech Ltd., 1984. 1984 rig-site monitoring at Buckingham O-68. Dobrocky Seatech Ltd., Sidney, B. C. for Panarctic Oils Ltd. 12 p. plus unnumbered appendices.
19840060	Y	Canadian Hydrographic Service. Unpublished data.
19850015	Y	Dr. R.M. Moore, Dalhousie University. Unpublished data.
19850041	Y	Geotech. Unpublished data. Geotechnical Services Ltd., Calgary, Alberta.
19850042	Y	Canadian Hydrographic Service. Unpublished data.
19850043	Y	Sandilands, R.G., R.R. Solvason and D.A. St. Jacques, 1986. 1985 tidal survey in the vicinity of Cameron Island, N.W.T. Data Rep. by CHS Central Region, Burlington, Ont.
19850044	Y	Perkin R., Institute of Ocean Sciences, Sidney, B.C. Unpublished data.
19860016	Y	Geotech, 1986. N. Buckingham L-71, data presentation. Unpub. Rep. by Geotechnical Services Ltd., Calgary, Alberta, unpagenated.
19860018	Y	Head, E.J.H., A. Bedo, and L.R. Harris, 1988. Grazing, defacation and excretion rates of copepods from inter-island channels of the Canadian Arctic Archipelago. Mar. Biol. 99: 333-340.
19870002	Y	Grant, S., Bedford Institute of Oceanography, Dartmouth, N.S., Unpub. data.

11. DATA INVENTORY TABLE 2 - LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS

This section contains detailed listings of measurement locations and times for each of the data sets plotted on the maps in Section 9. There are separate listings for temperature-salinity, current-meter and water-level data. Listings are ordered by data-set number and sorted by date. An explanation of the format appears at the start of each listing. Only data collected within the area of this inventory are listed here; measurements taken elsewhere may be found in the inventories for those areas.

11.1 TEMPERATURE-SALINITY DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source.
LAT, LONG	In degrees and minutes.
YR	Year
MO	Month
DY	Day
HR	Hour; GMT unless specified otherwise
CAST TO	Maximum depth of data, in metres. Zero value implies a surface measurement.
WATER DEPTH	In metres, if available.
PARAM MEAS	Parameters measured - conductivity (C), salinity (S), temperature (T). Each parameter measured is indicated by an 'X'. An 'X' under S indicates that salinity was measured by techniques such as titration. Most recent measurements are of the water conductivity ('X' under C), and salinity is then computed using the pressure, temperature and conductivity values
INSTR	Instruments type:

AAND - Aanderaa current meter
TG3A/m- temperature data from a moored tide guage, model TG3A
TG12/m- temperature data from a moored tide guage, model TG12A
WLR5/m- temperature data from a moored tide guage, model WLR5
RCM4/m- TS data from a moored current meter, model RCM-4
RCM4/p- TS profile data using an RCM-4
BECK - Beckman
BISS - Bisset Berman STD
BOTT - bottle sample
CTD - unspecified conductivity/temperature/depth meter
CT12 - Applied Microsystems CTD-12
GLDL - Guildline CTD
HYT - Hytech induction salinometer
INTO - Interocean CTD
YSI - Yellow Springs Instruments Co.
AML - Applied Microsystems Ltd. CTD
THERM - Thermister

INT(HR)	The time period between repetitive sampling at the same station.
NO	The number of repetitive samples.

NS entries indicate unavailable or inapplicable data.

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19460001	WELLINGTON CH	40	75	27.00	92	22.00	46	09	05	NS	46	09	05	150	155		X	X	BOTT		
19480001	EUREKA SD	12	79	44.00	86	25.00	48	08	29	NS	48	08	29	111	349		X	X	BOTT		
19520003	EUREKA SD	42	79	59.00	85	57.00	52	08	17	17	52	08	17	50	64		X	X	BOTT		
19520003	EUREKA SD	43	79	54.00	86	38.00	52	08	18	15	52	08	18	300	347		X	X	BOTT		
19520003	EUREKA SD	44	79	1.00	84	55.00	52	08	18	21	52	08	18	97	118		X	X	BOTT		
19520003	EUREKA SD	45	78	25.00	88	10.00	52	08	19	03	52	08	19	145	329		X	X	BOTT		
19520003	NORWEGIAN BAY	46	77	47.00	89	22.00	52	08	19	06	52	08	19	300	310		X	X	BOTT		
19520003	NORWEGIAN BAY	47	76	59.00	89	30.00	52	08	19	11	52	08	19	250	292		X	X	BOTT		
19520003	NORWEGIAN BAY	48	76	18.00	88	46.00	52	08	19	16	52	08	19	150	182		X	X	BOTT		
19540001	WELLINGTON CH	42	74	44.00	93	16.00	54	08	18	18	54	08	18	100	155		X	X	BOTT		
19540001	WELLINGTON CH	43	74	44.00	92	52.00	54	08	18	19	54	08	18	75	115		X	X	BOTT		
19540001	WELLINGTON CH	44	74	43.00	92	17.00	54	08	18	21	54	08	18	50	97		X	X	BOTT		
19540001	BYAM CH	53	75	7.00	104	54.00	54	08	25	02	54	08	25	65	80		X	X	BOTT		
19540001	BYAM CH	55	75	10.00	105	33.00	54	08	25	04	54	08	25	150	150		X	X	BOTT		
19540001	BYAM CH	54	74	59.00	105	14.00	54	08	25	06	54	08	25	100	119		X	X	BOTT		
19570003	WELLINGTON CH	66	74	40.00	92	30.00	57	08	28	17	57	08	28	100	132		X	X	BOTT		
19570003	WELLINGTON CH	67	74	39.00	92	58.00	57	08	28	18	57	08	28	150	152		X	X	BOTT		
19570003	WELLINGTON CH	68	74	39.00	93	31.00	57	08	28	19	57	08	28	150	177		X	X	BOTT		
19570003	WELLINGTON CH	107	75	2.00	93	17.00	57	09	15	01	57	09	15	250	265		X	X	BOTT		
19570003	WELLINGTON CH	108	75	3.00	92	48.00	57	09	15	02	57	09	15	150	159		X	X	BOTT		
19570003	WELLINGTON CH	109	75	5.00	92	30.00	57	09	15	03	57	09	15	100	132		X	X	BOTT		
19570003	WELLINGTON CH	110	75	23.00	93	20.00	57	09	15	07	57	09	15	200	238		X	X	BOTT		
19570003	WELLINGTON CH	111	75	24.00	93	2.00	57	09	15	08	57	09	15	150	150		X	X	BOTT		
19570003	WELLINGTON CH	112	75	24.00	92	36.00	57	09	15	10	57	09	15	100	137		X	X	BOTT		
19570003	WELLINGTON CH	113	75	36.00	93	18.00	57	09	15	12	57	09	15	200	230		X	X	BOTT		
19570003	WELLINGTON CH	114	75	36.00	94	12.00	57	09	15	15	57	09	15	50	68		X	X	BOTT		
19570003	QUEENS CH	115	75	44.00	95	0.00	57	09	15	16	57	09	15	100	112		X	X	BOTT		
19570003	QUEENS CH	116	75	51.00	95	16.00	57	09	15	17	57	09	15	30	51		X	X	BOTT		
19570003	QUEENS CH	117	75	58.00	95	28.00	57	09	15	18	57	09	15	75	88		X	X	BOTT		
19570003	QUEENS CH	118	76	6.00	95	36.00	57	09	15	20	57	09	15	150	165		X	X	BOTT		
19570003	QUEENS CH	119	76	14.00	95	37.00	57	09	15	21	57	09	15	50	68		X	X	BOTT		
19570003	QUEENS CH	120	76	12.00	96	16.00	57	09	15	22	57	09	15	200	229		X	X	BOTT		
19570003	QUEENS CH	121	76	10.00	96	59.00	57	09	15	23	57	09	15	121	137		X	X	BOTT		
19570003	PENNY ST	122	76	29.00	96	43.00	57	09	16	01	57	09	16	150	176		X	X	BOTT		
19570003	PENNY ST	123	76	40.00	97	5.00	57	09	16	16	57	09	16	250	276		X	X	BOTT		
19570003	QUEENS CH	124	76	41.00	97	47.00	57	09	16	22	57	09	16	100	104			X	BOTT		
19570003	WELLINGTON CH	125	75	56.00	93	47.00	57	09	17	02	57	09	17	250	293		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19600005	WELLINGTON CH	6	74	41.50	93	14.00	60	08	30	13	60	08	30	75	146		X	X	BOTT		
19600005	WELLINGTON CH	7	74	41.50	93	5.00	60	08	30	14	60	08	30	100	146		X	X	BOTT		
19600005	WELLINGTON CH	8	74	41.00	92	38.00	60	08	30	15	60	08	30	75	123		X	X	BOTT		
19600005	WELLINGTON CH	9	74	40.00	92	12.00	60	08	30	17	60	08	30	75	119		X	X	BOTT		
19600007	PR GUSTAF ADOLF	1	78	44.50	103	30.00	60	04	18	20	60	04	18	180	184		X	X	BOTT		
19600007	ARCTIC OCEAN	2	79	25.00	105	56.00	60	04	23	20	60	04	23	140	143		X	X	BOTT		
19600007	PEARY CH	3	79	25.50	104	4.00	60	04	26	03	60	04	26	330	331		X	X	BOTT		
19600007	PEARY CH	4	79	35.50	102	53.00	60	04	28	09	60	04	28	380	387		X	X	BOTT		
19600007	PEARY CH	5	79	46.50	101	14.00	60	04	29	20	60	04	29	500	527		X	X	BOTT		
19600007	PEARY CH	6	79	51.50	100	34.00	60	04	30	19	60	04	30	530	534		X	X	BOTT	0	2
19600007	SVERDRUP CH	7	80	4.50	97	10.00	60	04	30	19	60	04	30	190	192		X	X	BOTT		
19600007	PR GUSTAF ADOLF	8	79	9.50	106	35.00	60	05	04	05	60	05	04	450	458		X	X	BOTT		
19600007	PR GUSTAF ADOLF	9	79	0.50	107	30.00	60	05	18	00	60	05	18	440	444		X	X	BOTT		
19600007	PR GUSTAF ADOLF	10	78	50.00	108	44.00	60	05	19	07	60	05	19	490	492		X	X	BOTT		
19600007	PR GUSTAF ADOLF	11	78	48.50	109	39.00	60	05	20	09	60	05	20	470	472		X	X	BOTT		
19600007	WILKINS ST	12	78	18.50	114	25.00	60	05	23	04	60	05	23	340	344		X	X	BOTT		
19600007	BALLANTYNE ST	13	77	51.50	115	36.00	60	05	23	08	60	05	23	160	166		X	X	BOTT		
19610003	NANSEN SD	1	80	27.00	87	23.50	61	08	22	17	61	08	22	394	713		X	X	BOTT		
19610003	NORWEGIAN BAY	2	77	24.00	89	30.00	61	08	24	05	61	08	24	75	95			X	BOTT		
19610003	NORWEGIAN BAY	3	77	2.00	89	39.00	61	08	24	13	61	08	24	200	285			X	BOTT		
19610003	SOPHIA CH	4	75	53.00	95	8.00	61	08	28	20	61	08	28	50	55			X	BOTT	1	24
19610003	WELLINGTON CH	28	75	25.00	95	35.00	61	08	30	02	61	08	30	123	132			X	BOTT		
19610003	WELLINGTON CH	29	75	24.00	93	2.00	61	08	30	03	61	08	30	148	161			X	BOTT		
19610003	WELLINGTON CH	30	75	23.00	93	26.00	61	08	30	05	61	08	30	200	250			X	BOTT		
19610003	BYAM CH	31	75	11.00	105	22.50	61	09	03	01	61	09	03	50	70			X	BOTT		
19610003	BYAM CH	32	75	10.40	105	39.50	61	09	03	03	61	09	03	50	55			X	BOTT		
19610003	BYAM CH	33	75	8.80	105	1.90	61	09	03	04	61	09	03	150	160			X	BOTT		
19610003	AUSTIN CH	34	75	5.30	105	22.50	61	09	03	13	61	09	03	100	100			X	BOTT		
19610003	AUSTIN CH	35	75	4.60	102	31.00	61	09	03	15	61	09	03	100	121			X	BOTT		
19610003	AUSTIN CH	36	75	5.00	101	40.00	61	09	03	18	61	09	03	100	112			X	BOTT		
19610003	AUSTIN CH	37	75	4.50	100	55.00	61	09	03	20	61	09	03	75	75			X	BOTT		
19610003	WELLINGTON CH	38	75	25.00	92	35.00	61	09	09	13	61	09	09	100	146		X	X	BOTT		
19610003	WELLINGTON CH	39	75	24.00	93	2.00	61	09	09	14	61	09	09	150	176		X	X	BOTT		
19610003	WELLINGTON CH	40	75	23.00	93	26.00	61	09	09	16	61	09	09	148	272		X	X	BOTT		
19610004	WELLINGTON CH	25	74	41.00	93	14.00	61	09	07	16	61	09	07	100	128		X	X	BOTT		
19610004	WELLINGTON CH	26	74	41.00	92	52.00	61	09	07	17	61	09	07	100	137		X	X	BOTT		
19610004	WELLINGTON CH	27	74	41.00	92	32.00	61	09	07	18	61	09	07	125	144		X	X	BOTT		
19610004	WELLINGTON CH	28	74	41.00	92	10.00	61	09	07	20	61	09	07	100	130		X	X	BOTT		
19610004	WELLINGTON CH	29	74	41.00	91	55.00	61	09	07	21	61	09	07	125	141		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19610005	EUREKA SD	5	78	36.40	87	28.00	61	05	08	21	61	05	08	250	253		X	X	BOTT		
19610009	PR GUSTAF ADOLF	1	78	28.00	105	16.00	61	04	13	22	61	04	13	456	478		X	X	BOTT		
19610009	PR GUSTAF ADOLF	2	78	47.00	105	31.00	61	04	25	21	61	04	25	298	298		X	X	BOTT		
19610009	PR GUSTAF ADOLF	3	78	35.00	105	28.00	61	04	30	03	61	04	30	403	403		X	X	BOTT		
19610009	PR GUSTAF ADOLF	4	78	28.00	105	16.00	61	05	03	21	61	05	03	462	478		X	X	BOTT		
19620005A	PENNY ST	4	76	36.70	96	23.80	62	07	17	03	62	07	17	60	NS		X	X	BOTT		
19620005B	EUREKA SD	1	80	0.00	86	0.00	62	07	02	22	62	07	02	50	59		X	X	BOTT		
19620005B	EUREKA SD	2	80	0.00	86	0.00	62	07	06	15	62	07	06	50	70		X	X	BOTT		
19620005B	EUREKA SD	3	80	0.00	86	0.00	62	07	09	20	62	07	09	50	56		X	X	BOTT		
19620005B	NANSEN SD	4	81	3.00	91	25.00	62	07	11	06	62	07	11	25	29		X	X	BOTT		
19620005B	EUREKA SD	5	80	0.00	86	0.00	62	07	13	21	62	07	13	50	56		X	X	BOTT		
19620005B	EUREKA SD	6	80	0.00	86	0.00	62	07	16	15	62	07	16	50	59		X	X	BOTT		
19620005B	MASSEY SD	7	79	10.00	92	0.00	62	07	18	21	62	07	18	50	57		X	X	BOTT		
19620005B	EUREKA SD	8	80	0.00	86	0.00	62	07	21	20	62	07	21	50	59		X	X	BOTT		
19620005B	EUREKA SD	9	80	0.00	86	0.00	62	07	25	15	62	07	25	50	66		X	X	BOTT		
19620005B	EUREKA SD	10	80	0.00	86	0.00	62	07	28	20	62	07	28	50	56		X	X	BOTT		
19620005B	EUREKA SD	11	80	0.00	86	0.00	62	07	31	06	62	07	31	50	56		X	X	BOTT		
19620005B	EUREKA SD	12	80	0.00	86	0.00	62	08	04	00	62	08	04	50	51		X	X	BOTT		
19620005B	EUREKA SD	13	80	0.00	86	0.00	62	08	06	15	62	08	06	50	63		X	X	BOTT		
19620005B	EUREKA SD	14	80	0.00	86	0.00	62	08	10	01	62	08	10	50	66		X	X	BOTT		
19620005B	EUREKA SD	15	79	55.00	85	20.00	62	08	11	00	62	08	11	47	48		X	X	BOTT		
19620005B	EUREKA SD	16	80	0.00	86	0.00	62	08	13	22	62	08	13	50	69		X	X	BOTT		
19620005B	EUREKA SD	17	80	0.00	86	0.00	62	08	16	18	62	08	16	48	50		X	X	BOTT		
19620006	WELLINGTON CH	10	74	40.00	92	0.00	62	08	07	07	62	08	07	100	121		X	X	BOTT		
19620006	WELLINGTON CH	11	74	40.00	92	43.00	62	08	07	08	62	08	07	150	157		X	X	BOTT		
19620006	WELLINGTON CH	12	74	40.00	92	21.00	62	08	07	10	62	08	07	100	135		X	X	BOTT		
19620006	NORWEGIAN BAY	30	77	5.00	89	38.00	62	08	15	20	62	08	15	300	348		X	X	BOTT		
19620006	GREELY FD	31	80	25.00	85	0.00	62	08	22	16	62	08	22	600	658		X	X	BOTT		
19620006	GREELY FD	32	81	0.00	79	0.00	62	08	23	17	62	08	23	275	300		X	X	BOTT		
19620006	GREELY FD	33	80	42.00	80	0.00	62	08	23	20	62	08	23	350	369		X	X	BOTT		
19620006	NANSEN SD	34	81	13.00	91	15.00	62	08	24	08	62	08	24	700	786		X	X	BOTT		
19620006	NANSEN SD	35	81	10.00	90	37.00	62	08	24	10	62	08	24	700	713		X	X	BOTT		
19620006	NANSEN SD	36	81	6.00	91	30.00	62	08	24	12	62	08	24	600	701		X	X	BOTT		
19620006	NANSEN SD	37	80	36.00	88	50.00	62	08	24	19	62	08	24	700	732		X	X	BOTT		
19620006	EUREKA SD	38	80	10.00	87	3.00	62	08	24	23	62	08	24	600	618		X	X	BOTT		
19620006	EUREKA SD	39	79	17.00	84	40.00	62	08	25	06	62	08	25	200	227		X	X	BOTT		
19620006	EUREKA SD	40	78	9.00	88	8.00	62	08	25	15	62	08	25	200	249		X	X	BOTT		
19620006	NORWEGIAN BAY	41	77	40.00	92	10.00	62	08	25	20	62	08	25	350	379		X	X	BOTT		
19620006	BELCHER CH	42	77	15.00	97	14.00	62	08	26	10	62	08	26	150	192		X	X	BOTT		
19620006	PENNY ST	43	76	57.00	97	44.00	62	08	26	13	62	08	26	200	234		X	X	BOTT		
19620006	PENNY ST	44	76	53.00	98	24.00	62	08	26	14	62	08	26	250	311		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19620006	PENNY ST	45	76	48.00	99	0.00	62	08	26	16	62	08	26	450	460		X	X	BOTT		
19620006	WELLINGTON CH	46	75	25.00	92	46.00	62	08	27	04	62	08	27	150	194		X	X	BOTT		
19620006	WELLINGTON CH	47	75	23.00	93	26.00	62	08	27	06	62	08	27	250	252		X	X	BOTT		
19620006	AUSTIN CH	48	75	6.00	101	7.00	62	08	28	13	62	08	28	100	132		X	X	BOTT		
19620006	AUSTIN CH	49	75	4.00	102	15.00	62	08	28	15	62	08	28	100	130		X	X	BOTT		
19620006	AUSTIN CH	50	75	3.00	103	27.00	62	08	28	18	62	08	28	100	137		X	X	BOTT		
19620006	KELLETT ST	55	75	22.00	118	5.00	62	08	31	01	62	08	31	250	256		X	X	BOTT		
19630010	GREELY FD	1	81	23.70	77	10.00	63	05	26	22	63	05	26	183	203		X	X	BOTT		
19630010	GREELY FD	2	81	18.10	77	51.00	63	05	28	17	63	05	28	46	59		X	X	BOTT		
19630010	GREELY FD	3	81	11.80	78	31.00	63	05	30	00	63	05	30	183	227		X	X	BOTT		
19630010	GREELY FD	4	80	54.80	79	7.00	63	06	01	04	63	06	01	137	154		X	X	BOTT		
19630010	GREELY FD	5	80	50.10	78	14.00	63	06	01	21	63	06	01	238	238		X	X	BOTT		
19630010	GREELY FD	6	80	56.70	76	0.00	63	06	03	01	63	06	03	57	60		X	X	BOTT		
19630010	GREELY FD	7	80	49.60	79	23.00	63	06	06	04	63	06	06	128	128		X	X	BOTT		
19630010	GREELY FD	8	81	11.80	78	31.00	63	06	06	10	63	06	06	183	227		X	X	BOTT		
19630010	GREELY FD	9	81	8.80	79	14.00	63	06	08	01	63	06	08	46	73		X	X	BOTT		
19630010	GREELY FD	10	81	18.10	77	51.00	63	06	09	12	63	06	09	46	59		X	X	BOTT		
19630010	GREELY FD	11	80	41.00	86	55.00	63	06	13	00	63	06	13	183	183		X	X	BOTT		
19630010	GREELY FD	18	81	25.50	77	2.00	63	06	27	18	63	06	27	183	199		X	X	BOTT		
19630010	GREELY FD	19	81	26.00	76	58.00	63	06	29	21	63	06	29	119	122		X	X	BOTT		
19630010	GREELY FD	20	81	24.00	77	1.00	63	06	30	21	63	06	30	82	84		X	X	BOTT		
19630010	GREELY FD	21	81	23.20	77	9.00	63	07	07	22	63	07	07	53	55		X	X	BOTT		
19630010	GREELY FD	22	81	24.20	77	10.00	63	07	09	20	63	07	09	104	106		X	X	BOTT		
19630010	GREELY FD	23	81	24.00	77	14.00	63	07	10	00	63	07	10	177	180		X	X	BOTT		
19630010	GREELY FD	24	81	23.00	77	3.00	63	07	11	21	63	07	11	60	61		X	X	BOTT		
19630010	GREELY FD	25	81	22.00	77	14.00	63	07	11	23	63	07	11	29	31		X	X	BOTT		
19630010	GREELY FD	26	81	22.50	77	18.00	63	07	13	21	63	07	13	130	131		X	X	BOTT		
19630010	GREELY FD	27	81	23.30	77	15.00	63	07	14	00	63	07	14	227	228		X	X	BOTT		
19630010	GREELY FD	28	81	24.20	77	8.00	63	07	15	01	63	07	15	79	81		X	X	BOTT		
19630010	GREELY FD	29	81	24.60	77	5.00	63	08	16	16	63	08	16	18	62		X	X	BOTT		
19630010	GREELY FD	30	81	25.40	76	59.00	63	08	16	23	63	08	16	60	62		X	X	BOTT		
19630010	GREELY FD	31	81	24.20	77	1.00	63	08	18	17	63	08	18	110	112		X	X	BOTT		
19630010	GREELY FD	32	81	23.80	77	7.00	63	08	18	21	63	08	18	142	159		X	X	BOTT		
19640004	BYAM CH	5	75	4.00	105	22.00	64	08	28	22	64	08	28	250	303		X	X	BOTT		
19640004	BYAM CH	9	75	0.00	105	26.00	64	09	03	23	64	09	03	200	223		X	X	BOTT		
19640005	PR GUSTAF ADOLF	1	78	45.00	104	51.00	64	02	03	01	64	02	03	225	225		X	X	BOTT		
19640005	PR GUSTAF ADOLF	2	78	45.00	104	51.00	64	02	10	00	64	02	10	225	225		X	X	BOTT		
19640005	PR GUSTAF ADOLF	3	78	45.00	104	51.00	64	02	19	00	64	02	19	225	225		X	X	BOTT		
19640008	GREELY FD	1	81	24.60	77	8.00	64	05	08	05	64	05	08	50	65		X	X	BOTT		
19640008	GREELY FD	2	81	0.00	79	20.00	64	05	12	11	64	05	12	145	145		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19640008	GREELY FD	3	80	40.50	80	31.00	64	05	14	07	64	05	14	316	316		X	X	BOTT		
19640008	GREELY FD	4	81	24.60	77	8.00	64	05	15	09	64	05	15	50	65		X	X	BOTT		
19640008	NANSEN SD	5	80	42.20	86	48.00	64	05	19	17	64	05	19	355	355		X	X	BOTT		
19640008	NANSEN SD	6	81	1.10	85	42.00	64	05	21	10	64	05	21	199	199		X	X	BOTT		
19640008	NANSEN SD	7	81	4.00	84	50.00	64	05	21	19	64	05	21	101	127		X	X	BOTT		
19640008	NANSEN SD	8	81	8.80	86	9.00	64	05	22	18	64	05	22	504	505		X	X	BOTT		
19640008	NANSEN SD	9	81	12.20	85	48.00	64	05	23	14	64	05	23	501	502		X	X	BOTT		
19640008	GREELY FD	10	81	24.10	77	17.00	64	05	24	08	64	05	24	170	231		X	X	BOTT		
19640008	NANSEN SD	11	81	3.90	87	1.00	64	05	24	18	64	05	24	506	552		X	X	BOTT		
19640008	NANSEN SD	12	81	23.40	89	57.00	64	05	29	20	64	05	29	356	357		X	X	BOTT		
19640008	NANSEN SD	13	81	18.10	90	28.00	64	05	30	17	64	05	30	158	158		X	X	BOTT		
19640008	GREELY FD	14	81	24.10	77	17.00	64	05	31	09	64	05	31	100	231		X	X	BOTT		
19640008	NANSEN SD	15	81	34.20	92	35.00	64	06	02	08	64	06	02	291	292		X	X	BOTT		
19640008	NANSEN SD	16	81	28.50	93	6.00	64	06	02	15	64	06	02	506	507		X	X	BOTT		
19640008	NANSEN SD	17	81	34.00	93	10.00	64	06	03	16	64	06	03	404	405		X	X	BOTT		
19640008	NANSEN SD	18	80	58.00	89	40.00	64	06	07	01	64	06	07	596	597		X	X	BOTT		
19640008	GREELY FD	19	81	24.10	77	17.00	64	06	07	12	64	06	07	100	231		X	X	BOTT		
19640008	GREELY FD	20	81	24.10	77	17.00	64	06	15	06	64	06	15	100	231		X	X	BOTT		
19640008	GREELY FD	21	81	24.10	77	17.00	64	06	22	11	64	06	22	100	231		X	X	BOTT		
19640008	GREELY FD	22	81	24.10	77	17.00	64	06	29	12	64	06	29	202	231		X	X	BOTT		
19640008	GREELY FD	23	81	24.10	77	17.00	64	06	29	21	64	06	29	231	231		X	X	BOTT		
19640008	GREELY FD	24	81	24.10	77	17.00	64	06	30	02	64	06	30	100	231		X	X	BOTT		
19640008	GREELY FD	25	81	24.10	77	17.00	64	06	30	14	64	06	30	100	231		X	X	BOTT		
19640008	GREELY FD	26	81	24.10	77	16.90	64	07	03	16	64	07	03	75	78		X	X	BOTT		
19640008	GREELY FD	27	81	23.90	77	15.30	64	07	03	19	64	07	03	200	225		X	X	BOTT		
19640008	GREELY FD	28	81	23.50	77	12.10	64	07	03	23	64	07	03	60	65		X	X	BOTT		
19640008	GREELY FD	29	81	22.80	77	6.40	64	07	04	02	64	07	04	30	43		X	X	BOTT		
19640008	GREELY FD	30	81	24.10	77	17.00	64	07	06	17	64	07	06	200	231		X	X	BOTT		
19640008	GREELY FD	31	81	22.60	77	4.80	64	07	22	09	64	07	22	50	63		X	X	BOTT		
19640008	GREELY FD	32	81	26.10	76	59.70	64	07	29	11	64	07	29	50	64		X	X	BOTT		
19640008	GREELY FD	33	81	24.00	77	13.40	64	08	05	14	64	08	05	100	192		X	X	BOTT		
19640008	GREELY FD	34	81	25.40	77	0.30	64	08	05	17	64	08	05	75	79		X	X	BOTT		
19640008	GREELY FD	35	81	25.80	77	2.40	64	08	18	15	64	08	18	100	100		X	X	BOTT		
19640008	GREELY FD	36	81	25.30	77	0.60	64	08	25	08	64	08	25	100	153		X	X	BOTT		
19650005	GREELY FD	1	81	22.90	77	17.00	65	05	11	20	65	05	11	202	229		X	X	BOTT		
19650005	GREELY FD	2	81	21.90	77	15.00	65	05	11	23	65	05	11	77	90		X	X	BOTT		
19650005	GREELY FD	3	81	23.80	77	19.00	65	05	12	02	65	05	12	146	170		X	X	BOTT		
19650005	GREELY FD	4	81	14.20	78	8.00	65	05	12	23	65	05	12	152	170		X	X	BOTT		
19650005	GREELY FD	5	81	2.00	78	57.00	65	05	13	16	65	05	13	203	296		X	X	BOTT		
19650005	GREELY FD	6	81	13.80	78	5.00	65	05	13	19	65	05	13	51	66		X	X	BOTT		
19650005	GREELY FD	7	81	15.10	78	13.00	65	05	13	22	65	05	13	152	196		X	X	BOTT		
19650005	GREELY FD	8	80	47.80	79	10.00	65	05	14	16	65	05	14	203	265		X	X	BOTT		
19650005	GREELY FD	9	80	32.90	81	13.50	65	05	15	20	65	05	15	406	422		X	X	BOTT		
19650005	GREELY FD	10	80	23.80	84	11.50	65	05	16	16	65	05	16	500	526		X	X	BOTT		
19650005	NANSEN FD	11	80	41.30	86	53.50	65	05	17	01	65	05	17	406	406		X	X	BOTT		
19650005	NANSEN FD	12	81	15.50	85	26.00	65	05	19	19	65	05	19	406	419		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)		C	S	T	INSTR	REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER					HR	NO
19650005	NANSEN FD	13	81	10.00	82	43.00	65	05	20	13	65	05	20	76	88		X	X	BOTT		
19650005	NANSEN FD	14	81	5.20	83	22.00	65	05	20	19	65	05	20	152	169		X	X	BOTT		
19650005	NANSEN FD	15	81	4.00	86	55.00	65	05	20	22	65	05	20	200	258		X	X	BOTT		
19650005	NANSEN FD	16	81	1.60	85	41.00	65	05	21	15	65	05	21	151	187		X	X	BOTT		
19650005	NANSEN FD	17	81	13.90	85	50.00	65	05	21	18	65	05	21	406	447		X	X	BOTT		
19650005	GREELY FD	18	80	34.30	77	59.00	65	05	25	23	65	05	25	102	112		X	X	BOTT		
19650005	GREELY FD	19	80	34.10	79	36.50	65	05	26	22	65	05	26	152	171		X	X	BOTT		
19650005	GREELY FD	20	80	53.50	76	37.00	65	05	27	16	65	05	27	50	61		X	X	BOTT		
19650005	GREELY FD	21	80	51.50	77	55.00	65	05	27	22	65	05	27	304	372		X	X	BOTT		
19650005	GREELY FD	22	80	57.30	75	54.00	65	06	02	22	65	06	02	75	96		X	X	BOTT		
19650005	GREELY FD	23	81	24.00	77	5.00	65	06	07	01	65	06	07	100	108		X	X	BOTT		
19650005	GREELY FD	24	81	24.00	77	5.00	65	06	14	20	65	06	14	100	108		X	X	BOTT		
19650005	GREELY FD	25	81	24.00	77	5.00	65	06	22	19	65	06	22	100	108		X	X	BOTT		
19650005	GREELY FD	26	81	24.00	77	5.00	65	06	29	19	65	06	29	100	108		X	X	BOTT		
19650005	GREELY FD	27	81	23.00	77	20.00	65	08	16	01	65	08	16	100	138		X	X	BOTT		
19660010	GREELY FD	1	80	57.90	75	32.40	66	05	01	17	66	05	01	110	113		X	X	BOTT		
19660010	GREELY FD	2	81	25.00	76	50.00	66	05	19	20	66	05	19	100	141		X	X	BOTT		
19660010	NANSEN SD	3	81	2.00	85	37.00	66	05	21	16	66	05	21	150	165		X	X	BOTT		
19660010	GREELY FD	4	81	25.00	76	50.00	66	05	22	21	66	05	22	100	141		X	X	BOTT		
19660010	NANSEN SD	5	81	11.00	86	0.00	66	05	23	19	66	05	23	600	627		X	X	BOTT		
19660010	NANSEN SD	6	81	6.40	85	50.00	66	05	25	16	66	05	25	05	09		X	X	BOTT		
19660010	NANSEN SD	7	81	6.20	85	51.00	66	05	25	17	66	05	25	30	33		X	X	BOTT		
19660010	GREELY FD	8	81	25.00	76	50.00	66	05	25	18	66	05	25	140	141		X	X	BOTT		
19660010	NANSEN SD	9	81	6.00	85	52.00	66	05	25	19	66	05	25	30	40		X	X	BOTT		
19660010	NANSEN SD	10	81	3.00	85	39.00	66	05	29	16	66	05	29	75	133		X	X	BOTT		
19660010	GREELY FD	11	81	25.00	76	50.00	66	06	01	02	66	06	01	140	141		X	X	BOTT		
19660010	GREELY FD	12	81	25.00	76	50.00	66	06	07	02	66	06	07	140	141		X	X	BOTT		
19660010	GREELY FD	16	81	25.00	76	50.00	66	06	14	17	66	06	14	140	141		X	X	BOTT		
19660010	GREELY FD	18	81	25.00	76	50.00	66	06	21	20	66	06	21	140	141		X	X	BOTT		
19660010	GREELY FD	19	81	25.00	76	50.00	66	06	28	20	66	06	28	140	141		X	X	BOTT		
19660010	GREELY FD	20	81	25.00	76	50.00	66	07	05	18	66	07	05	140	141		X	X	BOTT		
19660010	GREELY FD	21	81	25.00	76	50.00	66	07	12	17	66	07	12	140	141		X	X	BOTT		
19660010	GREELY FD	22	81	25.00	76	50.00	66	07	16	15	66	07	16	100	113		X	X	BOTT		
19660010	GREELY FD	23	81	25.00	76	50.00	66	07	18	15	66	07	18	43	45		X	X	BOTT		
19660010	GREELY FD	24	81	25.00	76	50.00	66	07	18	17	66	07	18	70	71		X	X	BOTT		
19660010	GREELY FD	25	81	25.00	76	50.00	66	07	18	19	66	07	18	199	200		X	X	BOTT		
19670002	NORWEGIAN BAY	11	77	0.00	89	46.00	67	08	22	19	67	08	22	200	237		X	X	BOTT		
19670002	NORWEGIAN BAY	12	78	6.10	88	12.00	67	08	23	22	67	08	23	297	305		X	X	BOTT		
19670002	NANSEN SD	13	80	43.80	89	23.00	67	08	25	10	67	08	25	700	746		X	X	BOTT		
19670002	NANSEN SD	14	80	46.30	86	37.00	67	08	25	14	67	08	25	50	NS		X	X	BOTT		
19670002	NANSEN SD	15	80	37.00	87	14.00	67	08	25	16	67	08	25	47	612		X	X	BOTT		
19670002	NANSEN SD	16	80	31.50	87	31.00	67	08	25	23	67	08	25	50	NS		X	X	BOTT		
19670002	EUREKA SD	17	80	13.00	87	7.00	67	08	26	13	67	08	26	47	NS		X	X	BOTT		
19670002	EUREKA SD	18	79	58.80	85	56.80	67	08	26	17	67	08	26	50	NS		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19670002	EUREKA SD	19	80	0.30	86	57.00	67	08	27	21	67	08	27	50	NS		X	X	BOTT		
19670002	EUREKA SD	20	80	1.10	86	54.00	67	08	27	22	67	08	27	50	NS		X	X	BOTT		
19670002	EUREKA SD	21	80	1.10	86	54.00	67	08	27	23	67	08	27	400	466		X	X	BOTT		
19670002	EUREKA SD	22	80	2.00	86	42.00	67	08	27	23	67	08	27	50	NS		X	X	BOTT		
19670002	EUREKA SD	23	80	14.00	86	40.00	67	08	30	01	67	08	30	48	NS		X	X	BOTT		
19670002	EUREKA SD	24	80	14.30	87	5.00	67	08	30	02	67	08	30	50	NS		X	X	BOTT		
19670002	EUREKA SD	25	80	14.20	87	28.00	67	08	30	02	67	08	30	50	NS		X	X	BOTT		
19670002	NANSEN SD	26	80	28.00	88	4.00	67	08	30	10	67	08	30	50	NS		X	X	BOTT		
19670002	NANSEN SD	27	80	33.20	87	51.00	67	08	30	11	67	08	30	50	841		X	X	BOTT		
19670002	NANSEN SD	28	80	38.50	87	38.00	67	08	30	11	67	08	30	50	NS		X	X	BOTT		
19670002	NANSEN SD	29	80	41.20	86	55.00	67	08	30	13	67	08	30	50	NS		X	X	BOTT		
19670002	NANSEN SD	30	80	41.20	86	50.00	67	08	30	13	67	08	30	50	NS		X	X	BOTT		
19670002	NANSEN SD	31	80	41.20	86	41.00	67	08	30	13	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	32	80	32.00	85	43.00	67	08	30	15	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	33	80	30.80	84	13.00	67	08	30	17	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	34	80	25.50	84	5.00	67	08	30	17	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	35	80	20.40	84	12.00	67	08	30	18	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	36	80	26.50	85	48.00	67	08	30	19	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	37	80	22.50	85	15.00	67	08	30	20	67	08	30	50	NS		X	X	BOTT		
19670002	GREELY FD	38	80	17.50	85	15.00	67	08	31	22	67	08	31	50	NS		X	X	BOTT		
19670002	EUREKA SD	39	79	52.00	86	34.00	67	09	01	02	67	09	01	50	NS		X	X	BOTT		
19670002	EUREKA SD	40	79	52.00	86	47.00	67	09	01	02	67	09	01	50	NS		X	X	BOTT		
19670002	EUREKA SD	41	79	52.00	87	2.00	67	09	01	02	67	09	01	50	NS		X	X	BOTT		
19670002	NORWEGIAN BAY	42	78	6.00	88	12.00	67	09	01	13	67	09	01	50	NS		X	X	BOTT		
19670002	WELLINGTON CH	62	74	56.50	92	33.00	67	09	09	14	67	09	09	150	164		X	X	BOTT		
19670002	WELLINGTON CH	63	74	56.50	92	33.00	67	09	09	14	67	09	09	50	164		X	X	BOTT		
19670002	WELLINGTON CH	64	74	57.00	92	14.00	67	09	09	15	67	09	09	50	148		X	X	BOTT		
19670002	WELLINGTON CH	65	74	54.20	93	12.00	67	09	09	17	67	09	09	48	212		X	X	BOTT		
19670005	GREELY FD	1	80	57.50	75	34.00	67	04	19	13	67	04	19	65	68		X	X	BOTT		
19670005	NANSEN SD	2	81	3.50	87	2.00	67	05	20	05	67	05	20	100	550		X	X	BOTT		
19670005	EUREKA SD	12	80	9.20	86	52.00	67	05	28	16	67	05	28	200	NS		X	X	BOTT		
19670005	NANSEN SD	24	81	2.70	85	31.00	67	06	03	19	67	06	03	150	153		X	X	BOTT		
19670005	NANSEN SD	28	81	2.70	85	31.00	67	06	09	19	67	06	09	150	154		X	X	BOTT		
19670005	NANSEN SD	38	81	1.40	85	34.00	67	06	25	19	67	06	25	190	192		X	X	BOTT		
19670005	NANSEN SD	40	81	7.60	85	58.50	67	06	28	19	67	06	28	75	85		X	X	BOTT		
19670005	NANSEN SD	42	81	2.70	85	31.00	67	07	08	17	67	07	08	150	154		X	X	BOTT		
19670005	GREELY FD	44	81	24.00	76	55.00	67	07	19	16	67	07	19	20	34		X	X	BOTT		
19670005	GREELY FD	45	81	24.00	76	55.00	67	07	22	20	67	07	22	20	22		X	X	BOTT		
19670005	GREELY FD	46	81	24.00	76	55.00	67	07	25	01	67	07	25	10	14		X	X	BOTT		
19670005	GREELY FD	47	81	24.00	76	55.00	67	08	01	13	67	08	01	15	18		X	X	BOTT		
19670005	GREELY FD	48	81	24.00	76	55.00	67	08	11	17	67	08	11	25	25		X	X	BOTT		
19670005	GREELY FD	49	81	24.00	76	55.00	67	08	20	18	67	08	20	20	24		X	X	BOTT		
19680001	NORWEGIAN BAY	6	77	28.00	89	13.00	68	08	18	17	68	08	18	300	NS		X	X	BOTT		
19680001	NORWEGIAN BAY	7	76	53.60	89	49.00	68	08	20	01	68	08	20	125	NS		X	X	BOTT		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)		C	S	T	INSTR	REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER					HR	NO
19680001	WELLINGTON CH	20	74	45.00	92	44.00	68	09	08	16	68	09	08	75	NS		X	X	BOTT		
19680001	WELLINGTON CH	19	74	50.80	92	44.00	68	09	08	19	68	09	08	75	NS		X	X	BOTT		
19680015	NANSEN SD	1	81	26.50	92	43.00	68	05	11	17	68	05	11	60	NS		X	X	BOTT		
19680015	NANSEN SD	2	81	26.50	92	43.00	68	05	13	18	68	05	13	450	NS		X	X	BOTT		
19680015	NANSEN SD	3	81	26.50	92	43.00	68	05	22	05	68	05	22	470	NS		X	X	BOTT		
19680015	NANSEN SD	4	81	26.50	92	43.00	68	05	26	18	68	05	26	470	NS		X	X	BOTT		
19680015	NANSEN SD	5	81	26.50	92	43.00	68	05	28	13	68	05	28	470	NS		X	X	BOTT		
19680015	NANSEN SD	6	81	26.50	92	43.00	68	05	29	20	68	05	29	400	NS		X	X	BOTT		
19680015	NANSEN SD		81	26.50	92	43.00	68	06	01	14	68	06	15	470	NS		X	X	BOTT	24	15
19690014	GREELY FD	101	80	35.00	79	32.00	69	03	NS	NS	69	03	NS	187	NS	X		X	GLDL		
19690014	GREELY FD	102	80	35.00	79	26.00	69	03	NS	NS	69	03	NS	506	NS	X		X	GLDL		
19690014	GREELY FD	103	80	35.00	79	32.00	69	03	NS	NS	69	03	NS	510	NS	X		X	GLDL		
19690015	GREELY FD	1	80	36.00	80	0.00	69	08	12	NS	69	08	12	20	NS		X	X	BOTT		
19690015	GREELY FD	1	80	36.00	80	0.00	69	08	17	NS	69	08	17	35	NS		X	X	BOTT		
19690015	GREELY FD	1	80	36.00	80	0.00	69	08	23	NS	69	08	23	35	NS		X	X	BOTT		
19690015	GREELY FD	1	80	36.00	80	0.00	69	09	05	NS	69	09	05	35	NS		X	X	BOTT		
19690015	GREELY FD	1	80	36.00	80	0.00	69	09	19	NS	69	09	19	05	NS		X	X	BOTT		
19700017	GREELY FD	1	80	36.00	79	33.00	70	03	12	NS	70	03	12	110	142	X		X	GLDL		
19700017	GREELY FD	2	80	33.50	79	32.50	70	03	14	NS	70	03	14	300	384	X		X	GLDL		
19700017	GREELY FD	3	80	34.75	79	42.50	70	03	15	NS	70	03	15	150	174	X		X	GLDL		
19700017	GREELY FD	3	80	34.75	79	42.50	70	03	19	NS	70	03	19	150	174	X		X	GLDL		
19700017	GREELY FD	4	80	35.00	80	33.00	70	03	20	NS	70	03	20	500	604	X		X	GLDL		
19700017	GREELY FD	5	80	29.50	81	17.00	70	03	20	NS	70	03	20	400	521	X		X	GLDL		
19700017	GREELY FD	5	80	29.50	81	17.00	70	03	21	NS	70	03	21	350	521	X		X	GLDL		
19700017	GREELY FD	6	80	36.42	81	21.00	70	03	22	NS	70	03	22	350	415	X		X	GLDL		
19700017	GREELY FD	7	80	33.67	81	30.00	70	03	22	NS	70	03	22	400	521	X		X	GLDL		
19700017	GREELY FD	8	80	29.00	82	7.50	70	03	24	NS	70	03	24	400	567	X		X	GLDL		
19700017	GREELY FD	9	80	27.42	82	57.50	70	03	24	NS	70	03	24	500	644	X		X	GLDL		
19700017	GREELY FD	10	80	28.42	84	45.00	70	03	26	NS	70	03	26	500	640	X		X	GLDL		
19700017	GREELY FD	9	80	27.42	82	57.50	70	03	27	NS	70	03	27	500	644	X		X	GLDL		
19700017	GREELY FD	6	80	36.42	81	21.00	70	03	28	NS	70	03	28	350	415	X		X	GLDL		
19700017	GREELY FD	8	80	29.00	82	7.50	70	03	28	NS	70	03	28	400	567	X		X	GLDL		
19700017	GREELY FD	3	80	34.75	79	42.50	70	03	29	NS	70	03	29	150	174	X		X	GLDL		
19700017	GREELY FD	4	80	35.00	80	33.00	70	03	29	NS	70	03	29	500	604	X		X	GLDL		
19700017	GREELY FD	11	80	35.00	79	7.00	70	03	30	NS	70	03	30	400	485	X		X	GLDL		
19700017	GREELY FD	1	80	36.00	79	33.00	70	04	06	NS	70	04	06	110	142	X		X	GLDL		
19700018	D'IBERVILLE FD		79	40.00	80	34.00	70	08	13	NS	70	08	13	NS	NS	X		X	THER		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	17	22	71	03	17	415	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	18	16	71	03	18	412	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	18	21	71	03	18	405	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	19	21	71	03	19	343	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	30	19	71	03	30	411	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	30	20	71	03	30	152	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	30	21	71	03	30	412	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	30	22	71	03	30	150	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	31	16	71	03	31	454	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	31	20	71	03	31	410	476	X		X	GLDL		
19710015	GREELY FD	1	80	34.75	79	29.00	71	03	31	21	71	03	31	152	476	X		X	GLDL	0	2
19710015	GREELY FD	1	80	34.00	78	5.00	71	03	31	21	71	03	31	170	197	X		X	GLDL		
19720011	WELLINGTON CH	2	74	44.50	93	14.00	72	09	28	16	72	09	28	130	130	X		X	BOTT		
19720011	WELLINGTON CH	3	74	45.00	92	44.00	72	09	28	18	72	09	28	100	100	X		X	BOTT		
19720011	WELLINGTON CH	4	74	46.00	92	10.00	72	09	28	19	72	09	28	60	60	X		X	BOTT		
19720023	D'IBERVILLE FD		79	40.00	80	34.00	72	08	20	NS	72	09	11	12	NS			X	THERM		
19730006	WELLINGTON CH	1	74	47.00	93	11.00	73	04	23	20	73	04	23	136	NS	X		X	GLDL		
19730006	WELLINGTON CH	2	74	47.00	92	58.00	73	04	23	20	73	04	23	150	NS	X		X	GLDL		
19730006	WELLINGTON CH	3	74	47.00	92	43.00	73	04	23	21	73	04	23	133	NS	X		X	GLDL		
19730006	WELLINGTON CH	4	74	47.00	92	31.00	73	04	23	21	73	04	23	105	NS	X		X	GLDL		
19730006	WELLINGTON CH	5	74	47.00	92	19.00	73	04	23	22	73	04	23	78	NS	X		X	GLDL		
19730008	WELLINGTON CH	6	74	48.00	92	6.00	73	08	28	19	73	08	28	65	NS	X		X	GLDL		
19730008	WELLINGTON CH	7	74	48.00	92	25.00	73	08	28	19	73	08	28	99	NS	X		X	GLDL		
19730008	WELLINGTON CH	8	74	48.00	92	45.00	73	08	28	20	73	08	28	118	NS	X		X	GLDL		
19730008	WELLINGTON CH	9	74	48.00	93	5.00	73	08	28	20	73	08	28	162	NS	X		X	GLDL		
19730008	WELLINGTON CH	10	74	48.00	93	18.00	73	08	28	21	73	08	28	118	NS	X		X	GLDL		
19730013	GREELY FD	703	80	35.50	79	34.00	73	03	31	17	73	03	31	160	166	X		X	GLDL		
19730013	GREELY FD	710	80	35.50	79	34.00	73	04	02	17	73	04	02	160	166	X		X	GLDL	0	3
19730013	GREELY FD	711	80	35.50	79	34.00	73	04	02	22	73	04	02	160	166	X		X	GLDL		
19730013	GREELY FD	713	80	35.50	79	34.00	73	04	03	17	73	04	03	160	166	X		X	GLDL		
19730013	GREELY FD	716	80	34.00	79	33.00	73	04	04	21	73	04	04	496	519	X		X	GLDL		
19730013	GREELY FD	718	80	35.50	79	34.00	73	04	05	17	73	04	05	151	166	X		X	GLDL		
19730013	GREELY FD	719	80	35.50	79	34.00	73	04	06	16	73	04	06	159	166	X		X	GLDL		
19730013	GREELY FD	719	80	35.50	79	34.00	73	04	06	17	73	04	06	160	166	X		X	GLDL		
19730013	GREELY FD	722	80	35.50	78	18.00	73	04	06	22	73	04	06	179	184	X		X	GLDL		
19730013	GREELY FD	720	80	35.50	79	34.00	73	04	07	16	73	04	07	160	166	X		X	GLDL		
19730013	GREELY FD	720	80	35.50	79	34.00	73	04	07	17	73	04	07	161	166	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19730013	GREELY FD	723	80	35.00	78	42.00	73	04	07	17	73	04	07	166	384	X		X	GLDL		
19730013	GREELY FD	724	80	35.00	78	42.00	73	04	07	18	73	04	07	146	384	X		X	GLDL		
19730013	GREELY FD	721	80	35.50	79	34.00	73	04	07	20	73	04	07	161	166	X		X	GLDL		
19730013	GREELY FD	721	80	35.50	79	34.00	73	04	08	00	73	04	08	78	166	X		X	GLDL		
19730013	GREELY FD	728	80	35.50	79	34.00	73	04	09	17	73	04	09	161	166	X		X	GLDL		
19730013	GREELY FD	748	80	34.00	80	28.00	73	04	15	17	73	04	15	501	601	X		X	GLDL		
19730013	GREELY FD	749	80	34.00	80	28.00	73	04	15	20	73	04	15	300	601	X		X	GLDL		
19730013	GREELY FD	757	80	35.50	79	34.00	73	04	16	16	73	04	16	159	166	X		X	GLDL		
19730013	GREELY FD	759	80	35.50	79	34.00	73	04	16	21	73	04	16	160	166	X		X	GLDL		
19730013	GREELY FD	766	80	35.50	79	34.00	73	04	18	21	73	04	18	158	166	X		X	GLDL		
19730013	GREELY FD	770	80	35.50	79	34.00	73	04	20	17	73	04	20	160	166	X		X	GLDL		
19730013	GREELY FD	711	80	35.50	79	34.00	73	04	21	17	73	04	21	160	166	X		X	GLDL		
19730015	D'IBERVILLE FD		80	35.50	79	32.00	73	06	30	NS	74	06	19	2.5	NS			X	THERM		
19740014A	AUSTIN CH	2	75	28.00	103	45.00	74	05	14	NS	74	05	14	75	NS		X	X	BOTT		
19740014A	AUSTIN CH	3	75	32.00	102	50.00	74	05	NS	NS	74	05	NS	00	NS		X	X	BOTT		
19740018	MACLEAN ST	3	78	0.00	101	15.00	74	07	08	NS	74	07	08	58	262	X		X	NS		
19740018	MACLEAN ST	4	77	49.00	100	47.00	74	07	08	NS	74	07	08	58	230	X		X	NS		
19740018	MACLEAN ST	7	78	5.00	101	6.00	74	07	08	NS	74	07	08	58	60	X		X	NS		
19740025	GREELY FD	934	80	34.70	79	25.00	74	02	16	NS	74	02	16	434	519	X		X	GLDL		
19740025	GREELY FD	910	80	34.70	79	25.00	74	03	30	21	74	03	30	403	519	X		X	GLDL		
19740025	GREELY FD	913	80	34.70	79	25.00	74	03	31	15	74	03	31	504	519	X		X	GLDL		
19740025	GREELY FD	923	80	34.40	79	42.00	74	04	01	19	74	04	01	182	203	X		X	GLDL		
19740025	GREELY FD	936	80	34.60	79	12.50	74	04	02	20	74	04	02	443	493	X		X	GLDL		
19740025	GREELY FD	937	80	34.80	78	19.20	74	04	05	01	74	04	05	153	199	X		X	GLDL		
19740025	GREELY FD	940	80	35.50	78	43.00	74	04	05	21	74	04	05	306	NS	X		X	GLDL		
19740025	GREELY FD	963	80	34.70	79	25.00	74	04	09	19	74	04	09	509	519	X		X	GLDL		
19740025	GREELY FD	1	80	34.40	79	44.50	74	04	14	NS	74	07	23	01	221			X	RCM4/m		
19740025	GREELY FD	1	80	34.40	79	44.50	74	04	14	NS	74	07	23	220	221			X	RCM4/m		
19740025	GREELY FD	3	80	32.90	79	44.50	74	04	15	NS	74	07	23	01	354			X	RCM4/m		
19740025	GREELY FD	3	80	32.90	79	44.50	74	04	15	NS	74	07	23	353	354			X	RCM4/m		
19740025	GREELY FD	2	80	33.60	79	44.50	74	04	17	NS	74	07	23	208	209			X	RCM4/m		
19740025	GREELY FD	2	80	33.60	79	44.50	74	04	17	NS	74	07	23	01	209			X	RCM4/m		
19740025	GREELY FD	1050	80	34.20	80	16.20	74	08	23	NS	74	08	23	484	510	X		X	GLDL		
19740025	GREELY FD	1052	80	34.70	80	4.70	74	08	23	NS	74	08	23	150	250	X		X	GLDL		
19740025	GREELY FD	1053	80	36.00	79	36.70	74	08	23	NS	74	08	23	402	435	X		X	GLDL		
19740025	GREELY FD	1054	80	33.50	80	11.50	74	08	25	NS	74	08	25	405	405	X		X	GLDL		
19740025	GREELY FD	1055	80	33.20	80	5.50	74	08	25	NS	74	08	25	206	220	X		X	GLDL		
19740025	GREELY FD	1056	80	33.10	79	52.50	74	08	25	NS	74	08	25	202	222	X		X	GLDL		
19740025	GREELY FD	1057	80	35.90	79	31.00	74	08	25	NS	74	08	25	421	501	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19740118	DANISH ST	1	78	4.70	100	49.20	74	08	14	NS	74	08	28	85	85	X		X	YSI		
19740118	DANISH ST	10	78	1.60	100	49.70	74	08	14	NS	74	08	28	9.5	9.5	X		X	YSI		
19740118	DANISH ST	2	78	4.10	100	46.90	74	08	14	NS	74	08	28	5.5	5.5	X		X	YSI		
19740118	DANISH ST	3	78	5.00	100	45.60	74	08	14	NS	74	08	28	01	2	X		X	YSI		
19740118	DANISH ST	4	78	5.30	100	49.20	74	08	14	NS	74	08	28	6.4	6.4	X		X	YSI		
19740118	DANISH ST	5	78	4.10	100	49.00	74	08	14	NS	74	08	28	16.8	16.8	X		X	YSI		
19740118	DANISH ST	6	78	3.90	101	2.30	74	08	14	NS	74	08	28	87	87	X		X	YSI		
19740118	DANISH ST	7	78	7.90	100	58.30	74	08	14	NS	74	08	28	26.5	26.5	X		X	YSI		
19740118	DANISH ST	8	78	10.20	101	2.80	74	08	14	NS	74	08	28	43	43	X		X	YSI		
19740118	DANISH ST	9	78	10.50	101	8.90	74	08	14	NS	74	08	28	27.5	27.5	X		X	YSI		
19740121	CROZIER ST		75	22.90	96	54.00	74	08	17	NS	74	08	17	09	09				NS		
19740121	CROZIER ST	DS5	75	23.20	96	53.20	74	08	17	NS	74	08	20	09	09				NS		
19740121	CROZIER ST		75	22.90	96	55.80	74	08	18	NS	74	08	18	12	12				NS		
19740121	CROZIER ST	CB1	75	23.10	96	53.80	74	08	19	NS	74	08	21	20	NS				NS		
19740121	CROZIER ST	CB2	75	23.00	96	53.40	74	08	19	NS	74	08	21	27	NS				NS		
19740121	CROZIER ST	DS7	75	23.20	96	53.20	74	08	21	NS	74	08	21	08	08				NS		
19740121	CROZIER ST	DS8	75	23.30	96	56.80	74	08	22	NS	74	08	22	NS	NS				NS		
19740134	BYAM CH		75	27.20	104	44.00	74	04	23	NS	74	04	23	165	NS		X		BOTT		
19740134	BYAM CH		75	30.50	105	10.00	74	04	23	NS	74	04	23	90	NS		X		BOTT		
19740134	BYAM CH		75	31.50	105	16.00	74	04	23	NS	74	04	23	90	NS		X		BOTT		
19740134	BYAM CH		75	28.40	104	52.00	74	04	23	NS	74	04	23	120	NS		X		BOTT		
19740134	BYAM CH		75	29.50	105	0.00	74	04	23	NS	74	04	23	75	NS		X		BOTT		
19750016	HAZEN ST	1	76	34.00	113	28.00	75	06	01	NS	75	06	30	NS	355	X		X	RCM4/m		
19750016	HAZEN ST	2	76	47.00	112	27.00	75	06	03	NS	75	07	20	05	390	X		X	RCM4/m		
19750016	FITZWILLIAM ST	4	76	44.00	115	25.00	75	06	09	NS	75	07	19	05	305	X		X	RCM4/m		
19750016	FITZWILLIAM ST	5	76	33.00	115	47.00	75	06	10	NS	75	07	03	05	335	X		X	RCM4/m		
19750016	FITZWILLIAM ST	3	76	36.00	114	15.00	75	06	11	NS	75	07	03	05	320	X		X	RCM4/m		
19750016	HAZEN ST	1.1	76	34.00	113	28.00	75	06	19	NS	75	06	19	340	355	X		X	RCM4/p		
19750016	HAZEN ST	1.2	76	34.00	113	28.00	75	07	02	NS	75	07	02	340	355	X		X	RCM4/p		
19750016	HAZEN ST	1.3	76	34.00	113	28.00	75	07	19	NS	75	07	19	340	355	X		X	RCM4/p		
19750016	HAZEN ST	1.4	76	34.00	113	28.00	75	NS	NS	NS	75	NS	NS	09	355	X		X	INTO		
19750016	HAZEN ST	2	76	47.00	112	27.00	75	NS	NS	NS	75	NS	NS	08	390	X		X	INTO		
19750016	FITZWILLIAM ST	3	76	36.00	114	15.00	75	NS	NS	NS	75	NS	NS	08	320	X		X	INTO		
19750016	FITZWILLIAM ST	4	76	44.00	115	25.00	75	NS	NS	NS	75	NS	NS	08	305	X		X	INTO		
19750016	FITZWILLIAM ST	5	76	33.00	115	47.00	75	NS	NS	NS	75	NS	NS	08	335	X		X	INTO		
19750017	E. SABINE PEN	6.1	76	24.60	107	20.83	75	05	09	NS	75	05	09	350	355	X		X	NS		
19750017	E. SABINE PEN	6.2	76	24.60	107	20.83	75	05	09	NS	75	05	09	10	355	X		X	NS		
19750017	E. SABINE PEN	7	76	27.95	107	20.58	75	05	09	NS	75	05	09	350	357	X		X	NS		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19750018	DESBARATS ST	9	76	50.00	106	0.00	75	01	30	NS	75	06	23	05	155	X		X	RCM4/m		
19750018	DESBARATS ST	9	76	50.00	106	0.00	75	01	30	NS	75	01	30	10	155	X		X	INTO		
19750018	MACLEAN ST	10	77	20.00	102	30.00	75	02	06	NS	75	02	06	10	229	X		X	INTO		
19750018	HAZEN ST	8	77	0.00	110	30.00	75	02	23	NS	75	02	23	10	433	X		X	INTO		
19750019	E. SABINE PEN	11.1	76	24.67	107	48.78	75	03	04	NS	75	03	04	36	NS	X		X	BECK		
19750019	E. SABINE PEN	11.2	76	24.67	107	48.78	75	03	09	NS	75	03	09	132	NS	X		X	BECK	2	12
19750020	HECLA & GRIPER	1	76	21.92	110	53.08	75	12	06	NS	76	02	27	10	138	X		X	RCM4/m		
19750020	HECLA & GRIPER	1.1	76	21.92	110	53.08	75	12	06	NS	75	12	06	150	NS	X		X	RCM4/p		
19750020	HECLA & GRIPER	1.2	76	21.92	110	53.08	76	02	11	NS	76	02	11	160	NS	X		X	RCM4/p		
19750021	MACLEAN ST	3.1	78	5.37	101	50.67	76	01	13	NS	76	04	21	05	60	X		X	RCM4/m		
19750021	MACLEAN ST	3.1	78	5.37	101	50.67	76	02	03	NS	76	02	03	50	60	X		X	RCM4/p		
19750021	MACLEAN ST	3.2	78	5.37	101	50.67	76	04	20	NS	76	04	20	50	60	X		X	RCM4/p		
19750022	MACLEAN ST	9	77	20.00	102	30.00	76	03	24	NS	76	03	24	220	226	X		X	RCM4/p		
19750022	PR GUSTAF ADOLF	7	78	30.00	107	0.00	76	03	28	NS	76	03	28	350	385	X		X	RCM4/p		
19750022	HAZEN ST	8	77	0.00	110	30.00	76	04	09	NS	76	04	09	257	325	X		X	RCM4/p		
19750023	E. SABINE PEN	14	78	4.32	101	6.37	75	07	10	18	75	07	10	70	75	X		X	BECK		
19750023	E. SABINE PEN	13	78	5.37	101	5.00	75	07	11	18	75	07	11	40	45	X		X	BECK		
19750023	E. SABINE PEN	15	78	5.37	101	8.66	75	07	16	13	75	07	16	60	65	X		X	BECK		
19750023	E. SABINE PEN	12	78	5.77	101	6.83	75	07	16	18	75	07	16	50	55	X		X	BECK		
19750039	GREELY FD	1060	80	34.80	79	28.00	75	03	28	17	75	03	28	420	534	X		X	GLDL		
19750039	GREELY FD	1	80	34.40	79	43.70	75	04	01	NS	75	06	15	213	214			X	RCM4/m		
19750039	GREELY FD	1062	80	34.80	78	28.00	75	04	03	20	75	04	03	500	534	X		X	GLDL		
19750039	GREELY FD	1061	80	34.00	78	9.00	75	04	06	18	75	04	06	170	170	X		X	GLDL		
19750039	GREELY FD	1063	80	34.70	78	7.00	75	04	06	22	75	04	06	195	196	X		X	GLDL		
19750039	GREELY FD	1065	80	35.50	78	6.00	75	04	07	17	75	04	07	165	168	X		X	GLDL		
19750039	GREELY FD	1064	80	35.00	79	45.00	75	04	07	21	75	04	07	200	214	X		X	GLDL		
19750039	GREELY FD	1067	80	35.50	78	15.00	75	04	08	15	75	04	08	180	200	X		X	GLDL		
19750039	GREELY FD	1071	80	34.80	78	32.00	75	04	08	17	75	04	08	270	282	X		X	GLDL		
19750039	GREELY FD	1073	80	34.80	78	48.00	75	04	08	20	75	04	08	380	420	X		X	GLDL		
19750039	GREELY FD	1066	80	35.20	80	16.00	75	04	08	21	75	04	08	450	500	X		X	GLDL		
19750039	GREELY FD	1075	80	34.50	79	12.00	75	04	08	22	75	04	08	425	455	X		X	GLDL		
19750039	GREELY FD	1068	80	35.20	80	7.00	75	04	10	18	75	04	10	330	369	X		X	GLDL		
19750039	GREELY FD	1070	80	35.70	79	56.00	75	04	10	20	75	04	10	210	241	X		X	GLDL		
19750039	GREELY FD	1078	80	34.50	79	28.00	75	04	11	NS	75	04	11	400	534	X		X	GLDL		
19750039	GREELY FD	1074	80	35.70	79	28.00	75	04	12	16	75	04	12	415	534	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)		C	S	T	INSTR	REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER					HR	NO
19750039	GREELY FD	1076	80	35.70	79	28.00	75	04	12	17	75	04	12	500	534	X		X	GLDL		
19750039	GREELY FD	1	80	34.40	79	43.70	75	06	09	NS	75	06	21	220	221			X	RCM4/m		
19750039	GREELY FD	2	80	33.60	79	44.50	75	06	09	NS	75	06	21	208	209			X	RCM4/m		
19750039	GREELY FD	4	80	33.30	79	37.90	75	06	09	NS	75	06	21	353	354			X	RCM4/m		
19750138	GREELY FD		80	36.00	79	28.00	75	06	13	NS	75	06	13	400	NS				NS		
19760010	WELLINGTON CH		74	44.00	91	54.00	76	06	NS	NS	76	06	NS	NS	NS	X		X	BOTT		
19760014	HECLA & GRIPER	2.1	76	24.90	111	11.22	76	01	15	NS	76	01	15	380	NS	X		X	RCM4/p		
19760014	HECLA & GRIPER	2.1	76	24.90	111	11.22	76	01	15	NS	76	04	17	10	286	X		X	RCM4/m		
19760014	HECLA & GRIPER	2.2	76	24.90	111	11.22	76	02	10	NS	76	02	10	280	NS	X		X	RCM4/p		
19760014	HECLA & GRIPER	2.3	76	24.90	111	11.22	76	04	04	NS	76	04	04	60	NS	X		X	RCM4/p		
19760015	ARNOTT ST	4	76	18.00	103	28.00	76	05	15	NS	76	06	16	40	40	X		X	RCM4/m		
19760015	ERSKINE IN	6	76	19.00	102	13.00	76	05	16	NS	76	06	16	105	150	X		X	RCM4/m		
19760015	ERSKINE IN	5	76	19.00	102	13.00	76	05	17	NS	76	06	16	105	150	X		X	RCM4/m		
19760016	PENNY ST	12.1	76	41.50	97	7.00	76	04	13	17	76	04	13	155	187	X		X	RCM4/p	1	14
19760016	PENNY ST	14.1	76	38.50	97	23.80	76	04	16	16	76	04	16	210	260	X		X	RCM4/p	1	14
19760016	PENNY ST	11.1	76	42.80	96	58.70	76	04	18	15	76	04	18	192	192	X		X	RCM4/p		
19760016	PENNY ST	12.3	76	41.50	97	7.00	76	04	18	16	76	04	18	187	187	X		X	RCM4/p		
19760016	PENNY ST	15.1	76	36.30	97	28.50	76	04	20	15	76	04	20	155	157	X		X	RCM4/p		
19760016	PENNY ST	16.1	76	31.40	97	42.80	76	04	20	15	76	04	20	210	225	X		X	RCM4/p		
19760016	PENNY ST	15.2	76	36.30	97	28.50	76	04	20	16	76	04	20	100	108	X		X	RCM4/p		
19760016	PENNY ST	13	76	39.80	97	16.60	76	04	20	18	76	04	20	210	220	X		X	RCM4/p		
19760016	PENNY ST	14.2	76	38.50	97	23.80	76	04	20	18	76	04	20	210	260	X		X	RCM4/p		
19760016	PENNY ST	12.2	76	41.50	97	7.00	76	04	20	19	76	04	20	183	187	X		X	RCM4/p		
19760016	PENNY ST	11.2	76	42.80	96	58.70	76	04	20	20	76	04	20	183	192	X		X	RCM4/p		
19760016	PENNY ST	13	76	39.80	97	16.60	76	04	20	23	76	04	20	210	220	X		X	RCM4/p		
19760016	PENNY ST	16.2	76	31.40	97	42.80	76	04	21	20	76	04	21	210	225	X		X	RCM4/p		
19760016	BELCHER CH	21	77	26.00	95	53.10	76	04	24	19	76	04	24	56	59	X		X	RCM4/p		
19760016	BELCHER CH	22	77	24.00	95	57.00	76	04	24	20	76	04	24	68	68	X		X	RCM4/p		
19760016	BELCHER CH	23	77	18.30	96	1.80	76	04	24	21	76	04	24	125	127	X		X	RCM4/p		
19760016	BELCHER CH	24	77	14.50	96	5.90	76	04	24	22	76	04	24	200	220	X		X	RCM4/p		
19760016	BELCHER CH	25	77	7.90	96	13.00	76	04	24	23	76	04	24	175	180	X		X	RCM4/p		
19760016	BELCHER CH	26	77	3.60	96	17.70	76	04	25	00	76	04	25	200	200	X		X	RCM4/p		
19760017	BYAM CH	4	75	26.75	104	46.53	76	04	29	21	76	04	29	140	150	X		X	GLDL	1	2
19760017	BYAM CH	B2.2	75	30.20	105	8.70	76	05	01	NS	76	06	28	85	87	X		X	RCM4/m		
19760017	AUSTIN CH	5	75	30.27	103	1.43	76	05	03	22	76	05	03	220	240	X		X	GLDL	1	21
19760017	AUSTIN CH	6	75	31.37	102	50.35	76	05	04	22	76	05	04	50	54	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19760017	AUSTIN CH	A2.2	75	26.40	103	38.70	76	05	08	NS	77	03	14	142	144	X		X	RCM4/m		
19760017	AUSTIN CH	A1.2	75	25.20	103	50.10	76	05	10	NS	76	07	21	108	110	X		X	RCM4/m		
19760017	AUSTIN CH	A3.2	75	28.20	103	21.60	76	05	10	NS	76	06	22	168	170	X		X	RCM4/m		
19760017	AUSTIN CH	A4.2	75	30.20	103	1.00	76	05	10	NS	76	06	23	240	242	X		X	RCM4/m		
19760017	AUSTIN CH	A5.2	75	31.50	102	49.20	76	05	10	NS	76	05	17	54	56	X		X	RCM4/m		
19760017	BYAM CH	B3.1	75	26.90	104	57.40	76	05	10	NS	76	06	10	62	64	X		X	RCM4/m		
19760017	BYAM CH	B5.2	75	25.50	104	37.80	76	05	12	NS	76	06	29	44	46			X	RCM4/m		
19760018	GREELY FD	2010	80	34.70	79	29.00	76	03	08	20	76	03	08	474	495	X		X	GLDL		
19760018	GREELY FD	2015	80	35.50	78	44.00	76	03	14	20	76	03	14	350	375	X		X	GLDL		
19760018	GREELY FD	2017	80	34.00	78	5.00	76	03	15	14	76	03	15	100	113	X		X	GLDL		
19760018	GREELY FD	2019	80	35.00	78	19.00	76	03	15	21	76	03	15	190	210	X		X	GLDL		
19760018	GREELY FD	2021	80	34.00	80	20.00	76	03	22	14	76	03	22	525	562	X		X	GLDL		
19760018	GREELY FD	2023	80	30.00	81	45.00	76	03	23	14	76	03	23	470	492	X		X	GLDL		
19760018	GREELY FD	2024	80	26.00	82	46.00	76	03	24	14	76	03	24	580	620	X		X	GLDL		
19760018	GREELY FD	2025	80	29.00	84	24.00	76	03	25	01	76	03	25	650	696	X		X	GLDL		
19760018	GREELY FD	2026	80	28.00	86	0.00	76	03	26	17	76	03	26	650	680	X		X	GLDL		
19760018	NANSEN SD	2028	80	29.00	86	42.00	76	03	27	14	76	03	27	578	627	X		X	GLDL		
19760018	NANSEN SD	2029	80	22.00	86	47.00	76	03	29	14	76	03	29	329	366	X		X	GLDL		
19760018	EUREKA SD	2031	80	1.00	86	58.00	76	03	30	17	76	03	30	500	530	X		X	GLDL		
19760018	EUREKA SD	2032	80	0.30	86	49.00	76	03	30	19	76	03	30	500	534	X		X	GLDL		
19760018	EUREKA SD	2033	80	0.00	86	36.00	76	03	31	14	76	03	31	329	354	X		X	GLDL		
19770016	AUSTIN CH		75	31.00	102	30.00	77	08	NS	NS	77	08	NS	NS	NS	X		X	BOTT		
19770016	CROZIER ST		75	31.00	97	31.00	77	08	NS	NS	77	08	NS	NS	NS	X		X	BOTT		
19770016	PULLEN ST		75	33.00	96	18.00	77	08	NS	NS	77	08	NS	NS	NS	X		X	BOTT		
19770016	BYAM MARTIN IS		75	24.00	104	0.00	77	08	NS	NS	77	08	NS	NS	NS	X		X	BOTT		
19770019	GREELY FD	2301	80	36.20	79	31.20	77	03	04	21	77	03	04	231	231	X		X	GLDL		
19770019	GREELY FD	2302	80	34.80	78	12.50	77	03	16	22	77	03	16	110	118	X		X	GLDL		
19770019	GREELY FD	2303	80	35.70	78	23.80	77	03	17	05	77	03	17	182	186	X		X	GLDL		
19770019	GREELY FD	2304	80	36.00	78	30.00	77	03	17	20	77	03	17	159	165	X		X	GLDL		
19770019	GREELY FD	2305	80	35.00	78	38.00	77	03	17	23	77	03	17	242	247	X		X	GLDL		
19770019	GREELY FD	2306	80	33.50	80	30.00	77	03	21	21	77	03	21	237	241	X		X	GLDL		
19770019	GREELY FD	2307	80	33.70	79	51.80	77	03	22	01	77	03	22	180	190	X		X	GLDL		
19770019	GREELY FD	2308	80	35.30	78	53.80	77	03	24	19	77	03	24	365	369	X		X	GLDL		
19770019	GREELY FD	2309	80	34.80	79	9.50	77	03	24	23	77	03	24	479	480	X		X	GLDL		
19770019	GREELY FD	2310	80	34.20	79	35.30	77	03	26	01	77	03	26	513	513	X		X	GLDL		
19770019	GREELY FD	2311	80	34.70	79	22.50	77	03	27	19	77	03	27	450	464	X		X	GLDL		
19770022	HECLA & GRIPER	1.1	76	17.00	111	21.00	77	03	23	14	77	03	23	NS	NS	X		X	RCM4/p		
19770022	HECLA & GRIPER	1.1	76	17.00	111	21.00	77	03	24	NS	77	04	16	10	290	X		X	RCM4/m		
19770022	HECLA & GRIPER	1.2	76	17.00	111	21.00	77	04	16	10	77	04	16	280	NS	X		X	RCM4/p		
19770022	HECLA & GRIPER	1.2	76	17.00	111	21.00	77	04	17	NS	77	05	01	10	290	X		X	RCM4/m		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						INSTR	REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T			HR	NO
19770022	HECLA & GRIPER	1.3	76	17.00	111	21.00	77	05	01	14	77	05	01	290	NS	X		X	RCM4/p			
19770023	EDINGBURGH SEA	2.2	77	37.57	99	27.43	77	03	02	NS	77	06	29	02	396	X		X	RCM4/m			
19770023	HAZEN ST	3.2	76	58.05	110	40.43	77	03	14	NS	77	07	01	02	120	X		X	RCM4/m			
19770024	HAZEN ST	1.1	76	24.00	113	11.00	78	01	16	00	78	01	16	200	232	X		X	GLDL			
19770024	HAZEN ST	1	76	24.00	113	11.00	78	01	18	NS	78	04	17	10	232	X		X	RCM4/m			
19770024	HAZEN ST	1.2	76	24.00	113	11.00	78	04	22	20	78	04	22	200	232	X		X	GLDL			
19770025	HAZEN ST	2.1	76	43.00	109	46.00	78	01	11	03	78	01	11	150	165	X		X	GLDL	4	13	
19770025	HAZEN ST	2	76	43.00	109	46.00	78	01	11	NS	78	04	09	10	165	X		X	RCM4/m			
19770025	HAZEN ST	2.2	76	43.00	109	46.00	78	04	07	20	78	04	07	150	165	X		X	GLDL	4	13	
19770026	CROZIER ST	C1	75	31.60	97	22.20	77	03	28	22	77	03	28	60	62	X		X	GLDL			
19770026	CROZIER ST	C1.2	75	31.60	97	22.20	77	03	28	NS	77	06	11	25	64	X		X	RCM4/m			
19770026	CROZIER ST	C2.3	75	31.50	97	19.80	77	03	29	NS	77	07	01	52	54	X		X	RCM4/m			
19770026	CROZIER ST	C2	75	31.50	97	19.80	77	03	30	22	77	03	30	50	52	X		X	GLDL			
19770026	CROZIER ST	C1.3	75	31.60	97	22.20	77	03	30	NS	77	04	14	62	64	X		X	RCM4/m			
19770026	CROZIER ST	C2.2	75	31.50	97	19.80	77	03	30	NS	77	06	11	25	54	X		X	RCM4/m			
19770026	CROZIER ST	C6	75	29.80	97	2.90	77	04	03	20	77	04	03	270	271	X		X	GLDL	1	13	
19770026	CROZIER ST	C6.2	75	28.80	97	2.90	77	04	03	NS	77	08	07	271	273	X		X	RCM4/m			
19770026	CROZIER ST	C5.4	75	30.00	97	5.10	77	04	05	NS	77	03	21	317	319	X		X	RCM4/m			
19770026	CROZIER ST	C5	75	30.00	97	5.10	77	04	07	20	77	04	07	04	317	X			GLDL			
19770026	CROZIER ST	C5.2	75	30.00	97	5.10	77	04	07	NS	77	06	13	75	319	X		X	RCM4/m			
19770026	CROZIER ST	C5.3	75	30.00	97	5.10	77	04	07	NS	77	06	14	200	319	X		X	RCM4/m			
19770026	CROZIER ST	C4.3	75	30.30	97	8.00	77	04	09	NS	77	12	31	278	280	X		X	RCM4/m			
19770026	CROZIER ST	C4	75	30.30	97	8.00	77	04	10	22	77	04	10	280	286	X		X	GLDL			
19770026	CROZIER ST	C4.2	75	30.30	97	8.00	77	04	12	NS	77	06	14	200	280	X		X	RCM4/m			
19770026	CROZIER ST	C3	75	30.50	97	10.40	77	04	13	03	77	04	13	89	92	X		X	GLDL			
19770026	CROZIER ST	C3.2	75	30.50	97	10.40	77	04	13	NS	77	08	09	92	94			X	RCM4/m			
19770026	PULLEN ST	P3.3	75	26.50	96	5.90	77	04	20	NS	77	08	11	54	56	X		X	RCM4/m			
19770026	PULLEN ST	P3	75	26.50	96	5.90	77	04	21	21	77	04	21	50	54	X		X	GLDL			
19770026	PULLEN ST	P3.2	75	26.50	96	5.90	77	04	21	NS	77	06	15	25	56	X		X	RCM4/m			
19770026	CROZIER ST	C4.3	75	30.30	97	8.00	78	01	01	NS	78	03	22	278	280	X		X	RCM4/m			
19770119	MCDOUGALL SD	CB23	75	22.80	96	54.00	77	08	26	NS	77	08	26	02	02				NS			
19770119	MCDOUGALL SD	CB24	75	22.80	96	54.00	77	08	27	NS	77	08	27	04	04				NS			
19770119	MCDOUGALL SD	CB25	75	22.00	96	48.00	77	08	28	NS	77	08	28	02	02				NS			
19780007	AUSTIN CH	82.1	75	27.30	103	5.40	78	03	15	NS	78	04	26	05	180	X		X	RCM4/m			
19780007	AUSTIN CH	82.2	75	27.30	103	5.40	78	03	15	NS	78	03	26	50	180	X		X	RCM4/m			
19780007	AUSTIN CH	92	75	11.10	101	6.70	78	03	15	NS	78	04	26	04	155	X		X	RCM4/m			

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19780007	AUSTIN CH	95	75	7.40	102	59.60	78	03	15	NS	78	04	19	05	147	X		X	RCM4/m		
19780007	MCDOUGALL SD	33	75	6.80	97	32.70	78	04	06	18	78	04	06	58	61	X		X	GLDL		
19780007	MCDOUGALL SD	31	75	7.71	96	39.30	78	04	06	19	78	04	06	120	126	X		X	GLDL		
19780007	MCDOUGALL SD	32	75	7.65	97	6.57	78	04	06	20	78	04	06	170	175	X		X	GLDL		
19780007	AUSTIN CH	91	75	12.90	100	44.09	78	04	14	16	78	04	14	90	96	X		X	GLDL		
19780007	AUSTIN CH	92	75	11.65	101	5.50	78	04	14	16	78	04	14	150	155	X		X	GLDL		
19780007	AUSTIN CH	93	75	9.96	101	34.26	78	04	14	17	78	04	14	125	132	X		X	GLDL		
19780007	AUSTIN CH	94	75	8.11	102	40.90	78	04	14	17	78	04	14	98	107			X	GLDL		
19780007	AUSTIN CH	95	75	7.48	102	59.55	78	04	14	18	78	04	14	135	147			X	GLDL		
19780007	AUSTIN CH	96	75	6.80	103	25.80	78	04	14	18	78	04	14	93	97			X	GLDL		
19780007	BYAM CH	86	75	17.60	105	35.21	78	04	14	20	78	04	14	74	77			X	GLDL		
19780007	BYAM CH	84	75	14.70	104	56.94	78	04	14	21	78	04	14	220	225			X	GLDL		
19780007	BYAM CH	85	75	15.90	105	15.50	78	04	14	21	78	04	14	73	77			X	GLDL		
19780010	E. SABINE PEN	3.2	76	25.40	108	28.72	78	01	22	NS	78	03	25	49	58	X		X	RCM4/m		
19780010	E. SABINE PEN	3.1	76	25.40	108	28.72	78	01	23	NS	78	04	25	49	58	X		X	RCM4/m		
19780010	E. SABINE PEN	3.3	76	25.40	108	28.72	78	03	27	NS	78	04	11	10	58	X		X	RCM4/m		
19780011	EDINGBURGH SEA	5.2	77	19.01	99	55.35	78	01	23	NS	78	06	04	03	234	X		X	RCM4/m		
19780011	NORWEGIAN BAY	4.1	78	3.20	92	6.77	78	01	25	NS	78	06	04	02	490	X		X	RCM4/m		
19780012	CROZIER ST	C5	75	29.97	97	5.08	78	03	19	17	78	03	19	307	310	X		X	GLDL		
19780012	CROZIER ST	C5	75	29.97	97	5.08	78	03	19	20	78	03	19	300	310	X		X	GLDL		
19780012	CROZIER ST	C5	75	29.97	97	5.08	78	03	19	NS	78	03	19	300	310	X		X	GLDL		
19780012	CROZIER ST	C6	75	24.00	97	6.00	78	03	23	04	78	03	23	360	369	X		X	GLDL		
19780012	PULLEN ST	P1	75	24.62	96	21.35	78	03	24	04	78	03	24	35	54	X		X	GLDL		
19780012	PULLEN ST	P2	75	26.83	96	6.17	78	03	25	03	78	03	25	47	48	X		X	GLDL		
19780012	WELLINGTON CH	3.2	75	14.92	92	52.00	78	04	03	NS	78	07	08	100	160	X		X	RCM4/m		
19780012	WELLINGTON CH	3	75	14.92	92	52.00	78	04	04	17	78	04	04	155	160	X		X	GLDL		
19780012	WELLINGTON CH	3.1	75	14.92	92	52.00	78	04	04	NS	78	07	08	20	160	X		X	RCM4/m		
19780012	WELLINGTON CH	4	75	14.33	92	37.50	78	04	05	15	78	04	05	180	188	X		X	GLDL	1	25
19780012	WELLINGTON CH	4	75	14.33	92	37.50	78	04	06	21	78	04	06	180	188	X		X	GLDL		
19780012	WELLINGTON CH	4	75	14.33	92	37.50	78	04	06	NS	78	07	08	12	188	X		X	RCM4/m		
19780012	WELLINGTON CH	4	75	14.33	92	37.50	78	04	17	21	78	04	17	180	188	X		X	GLDL		
19780012	WELLINGTON CH	3	75	14.92	92	52.00	78	04	18	21	78	04	18	155	160	X		X	GLDL		
19780012	WELLINGTON CH	2.1	75	14.83	93	0.50	78	04	19	NS	78	07	09	12	146	X		X	RCM4/m		
19780012	WELLINGTON CH	2.2	75	14.83	93	0.50	78	04	19	NS	78	07	06	100	146			X	RCM4/m		
19780012	WELLINGTON CH	2	75	14.83	93	0.50	78	04	21	21	78	04	21	140	146	X		X	GLDL		
19780012	WELLINGTON CH	1	75	15.25	93	17.00	78	04	25	15	78	04	25	225	232	X		X	GLDL	1	31
19780012	WELLINGTON CH	1	75	15.25	93	17.00	78	04	25	NS	78	07	09	12	232	X		X	RCM4/m		
19780013	HAZEN ST	1.1	77	3.26	110	21.16	79	01	03	20	79	01	03	200	225	X		X	GLDL	4	13
19780013	HAZEN ST	1	77	3.26	110	21.16	79	01	06	NS	79	04	29	10	225	X		X	RCM4/m		
19780013	HAZEN ST	1.2	77	3.26	110	21.16	79	05	02	04	79	05	02	200	225	X		X	GLDL	4	11

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	START HR	STOP YR	STOP MN	STOP DY	DEPTHS(M) CAST	DEPTHS(M) WATER	C	S	T	INSTR	REPEAT HR	REPEAT NO
19780014	DESBARATS ST	2.1	76	42.21	105	57.25	78	12	30	03	78	12	30	150	150	X		X	GLDL	4	18
19780014	DESBARATS ST	2	76	42.21	105	57.25	79	01	01	NS	79	04	06	10	150	X		X	RCM4/m		
19780014	DESBARATS ST	2.2	76	42.21	105	57.25	79	04	03	22	79	04	03	150	150	X		X	GLDL	4	13
19790018	W. LOUGHEED IS	3.1	77	12.30	106	52.88	79	01	09	11	79	01	09	240	240	X		X	GLDL	4	17
19790018	W. LOUGHEED IS	3	77	12.30	106	52.88	79	01	13	NS	79	05	05	10	240	X		X	RCM4/m		
19790018	W. LOUGHEED IS	3.2	77	12.30	106	52.88	79	04	29	12	79	04	29	240	240	X		X	GLDL	4	13
19790019	DESBARATS ST	12.1	76	55.00	103	49.00	79	04	03	NS	79	05	07	05	195	X		X	RCM4/m		
19790019	DESBARATS ST	12.2	76	55.00	103	49.00	79	04	03	NS	79	05	01	50	195	X		X	RCM4/m		
19790019	DESBARATS ST	14.1	76	47.00	103	52.00	79	04	03	NS	79	04	27	05	325	X		X	RCM4/m		
19790019	DESBARATS ST	22.1	77	5.00	106	10.00	79	04	03	NS	79	04	03	0 6	199	X		X	RCM4/m		
19790019	DESBARATS ST	22.2	77	5.00	106	10.00	79	04	03	NS	79	04	08	50	199	X		X	RCM4/m		
19790019	DESBARATS ST	24.1	76	52.00	107	52.00	79	04	03	NS	79	05	02	0							
19790019	DESBARATS ST	14.2	76	47.00	103	52.00	79	04	04	NS	79	05	03	50	325	X		X	RCM4/m		
19790019	DESBARATS ST	24.2	76	52.00	107	52.00	79	04	04	NS	79	04	12	50	439	X		X	RCM4/m		
19790019	DESBARATS ST	1	77	12.00	106	46.00	79	04	06	23	79	04	06	347	353	X		X	GLDL		
19790019	DESBARATS ST	21	77	7.20	105	52.00	79	04	08	18	79	04	08	180	192	X		X	GLDL		
19790019	DESBARATS ST	22	77	5.00	106	10.00	79	04	08	19	79	04	08	195	199	X		X	GLDL		
19790019	DESBARATS ST	23.1	76	57.00	107	1.00	79	04	08	21	79	04	08	170	185	X		X	GLDL		
19790019	DESBARATS ST	24.1	76	51.80	107	52.00	79	04	08	23	79	04	08	430	439	X		X	GLDL		
19790019	MACLEAN ST	32.1	77	50.00	100	46.00	79	04	08	NS	79	04	30	05	210	X		X	RCM4/m		
19790019	MACLEAN ST	32.2	77	50.00	100	46.00	79	04	08	NS	79	05	08	50	210	X		X	RCM4/m		
19790019	MACLEAN ST	35.1	77	37.00	102	55.00	79	04	08	NS	79	04	25	05	350	X		X	RCM4/m		
19790019	MACLEAN ST	35.2	77	37.00	102	55.00	79	04	08	NS	79	04	25	50	350	X		X	RCM4/m		
19790019	MACLEAN ST	37.1	77	30.00	103	58.00	79	04	08	NS	79	05	07	06	290	X		X	RCM4/m		
19790019	MACLEAN ST	37.2	77	30.00	103	58.00	79	04	08	NS	79	05	07	50	290	X		X	RCM4/m		
19790019	DESBARATS ST	25	76	48.50	108	18.00	79	04	10	22	79	04	10	395	450	X		X	GLDL		
19790019	DESBARATS ST	24.2	76	51.80	107	52.00	79	04	10	23	79	04	10	400	439	X		X	GLDL		
19790019	DESBARATS ST	23.2	76	56.50	107	12.50	79	04	11	00	79	04	11	385	388	X		X	GLDL		
19790019	DESBARATS ST	11.1	77	0.00	103	45.00	79	04	13	18	79	04	13	165	175	X		X	GLDL		
19790019	ARNOTT ST	16	76	17.00	103	48.00	79	04	13	22	79	04	13	64	68	X		X	GLDL		
19790019	ARNOTT ST	17	76	16.40	103	49.00	79	04	13	22	79	04	13	90	95	X		X	GLDL		
19790019	DESBARATS ST	15.1	76	43.00	103	53.00	79	04	14	00	79	04	14	260	270	X		X	GLDL		
19790019	DESBARATS ST	14.1	76	47.00	103	52.00	79	04	14	01	79	04	14	315	325	X		X	GLDL		
19790019	BYAM MARTIN CH	41	76	4.00	104	29.00	79	04	14	17	79	04	14	160	175	X		X	GLDL		
19790019	BYAM MARTIN CH	42	76	2.00	104	47.00	79	04	14	18	79	04	14	180	190	X		X	GLDL		
19790019	DESBARATS ST	1	77	12.00	106	46.00	79	04	14	19	79	04	14	347	353	X		X	GLDL	1	14
19790019	BYAM MARTIN CH	43	75	59.00	105	8.00	79	04	14	19	79	04	14	140	160	X		X	GLDL		
19790019	BYAM MARTIN CH	44	75	56.00	105	25.00	79	04	14	20	79	04	14	184	190	X		X	GLDL		
19790019	DANISH ST	33	77	48.00	100	53.00	79	04	14	23	79	04	14	200	220	X		X	GLDL		
19790019	DANISH ST	32	77	50.00	100	46.00	79	04	15	00	79	04	15	200	210	X		X	GLDL		
19790019	DANISH ST	31	77	51.50	100	39.00	79	04	15	01	79	04	15	100	110	X		X	GLDL		
19790019	DESBARATS ST	11.2	77	0.00	103	48.00	79	04	15	16	79	04	15	145	155	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19790019	DESBARATS ST	14.2	76	47.00	103	52.00	79	04	15	20	79	04	15	300	320	X		X	GLDL		
19790019	DESBARATS ST	15.2	76	43.00	103	53.00	79	04	15	21	79	04	15	285	300	X		X	GLDL		
19790019	W. LOUGHEED IS	2	77	22.00	107	14.00	79	04	15	23	79	04	15	280	310	X		X	GLDL		
19790019	DESBARATS ST	11.3	77	0.00	103	48.00	79	04	16	18	79	04	16	145	160	X		X	GLDL		
19790019	DESBARATS ST	12.1	76	55.00	103	49.00	79	04	16	19	79	04	16	185	195	X		X	GLDL		
19790019	DESBARATS ST	12.2	76	55.00	103	49.00	79	04	16	22	79	04	16	185	195	X		X	GLDL		
19790019	DESBARATS ST	13	76	51.00	103	50.00	79	04	16	23	79	04	16	260	270	X		X	GLDL		
19790019	DESBARATS ST	14.3	76	47.00	103	52.00	79	04	17	00	79	04	17	300	320	X		X	GLDL		
19790019	DESBARATS ST	15.3	76	43.00	103	53.00	79	04	17	00	79	04	17	260	280	X		X	GLDL		
19790019	MACLEAN ST	38.1	77	27.00	104	30.00	79	04	19	17	79	04	19	290	295	X		X	GLDL		
19790019	MACLEAN ST	38.2	77	27.00	104	33.00	79	04	20	22	79	04	20	150	155	X		X	GLDL		
19790019	MACLEAN ST	37	77	30.00	103	58.00	79	04	20	23	79	04	20	285	290	X		X	GLDL		
19790019	MACLEAN ST	36	77	34.00	103	31.00	79	04	21	00	79	04	21	265	270	X		X	GLDL		
19790019	MACLEAN ST	35	77	37.00	102	55.00	79	04	21	03	79	04	21	345	350	X		X	GLDL		
19790019	MACLEAN ST	34	77	42.00	102	39.00	79	04	21	04	79	04	21	250	255	X		X	GLDL		
19790019	PR GUSTAF ADOLF	71.1	78	25.50	105	26.00	79	04	21	18	79	04	21	400	515	X		X	GLDL		
19790019	HAZEN ST	63	77	0.00	109	23.00	79	04	22	21	79	04	22	400	440	X		X	GLDL		
19790019	HAZEN ST	62	77	11.00	109	41.00	79	04	22	22	79	04	22	400	435	X		X	GLDL		
19790019	HAZEN ST	61	77	23.00	110	14.00	79	04	22	23	79	04	22	335	345	X		X	GLDL		
19790019	PR GUSTAF ADOLF	73	78	27.00	108	47.00	79	04	27	20	79	04	27	260	270	X		X	GLDL		
19790019	PR GUSTAF ADOLF	72	78	27.00	107	5.00	79	04	27	21	79	04	27	375	377	X		X	GLDL		
19790019	PR GUSTAF ADOLF	71.2	78	29.00	105	25.00	79	04	27	22	79	04	27	315	390	X		X	GLDL		
19790019	EDINGBURGH SEA	51	77	41.00	99	52.00	79	04	28	18	79	04	28	300	320	X		X	GLDL		
19790019	EDINGBURGH SEA	52	77	31.00	99	50.00	79	04	28	19	79	04	28	285	300	X		X	GLDL		
19790019	EDINGBURGH SEA	53	77	18.50	99	50.00	79	04	28	19	79	04	28	190	210	X		X	GLDL		
19790019	EDINGBURGH SEA	54	77	4.00	99	50.00	79	04	28	21	79	04	28	240	255	X		X	GLDL		
19790019	EDINGBURGH SEA	55	76	48.00	99	50.00	79	04	28	22	79	04	28	140	160	X		X	GLDL		
19790019	WILKINS ST	82	78	9.00	109	48.00	79	04	29	01	79	04	29	360	370	X		X	GLDL		
19790019	WILKINS ST	81	78	15.00	109	48.00	79	04	29	02	79	04	29	260	269	X		X	GLDL		
19790020	W. LOUGHEED IS	1.1	77	12.40	106	53.43	80	01	16	01	80	01	16	275	275	X		X	GLDL	4	14
19790020	W. LOUGHEED IS	1.1	77	12.40	106	53.43	80	01	16	NS	80	05	11	10	275	X		X	RCM4/m		
19790020	W. LOUGHEED IS	1.2	77	12.40	106	53.43	80	02	28	NS	80	05	12	150	320	X		X	RCM4/m		
19790020	W. LOUGHEED IS	1.3	77	12.40	106	53.43	80	03	02	NS	80	05	13	275	320	X		X	RCM4/m		
19790020	W. LOUGHEED IS	1.2	77	12.40	106	53.43	80	04	16	21	80	04	16	275	275	X		X	GLDL	4	16
19790022	EDINGBURGH SEA	2.1	77	37.18	100	22.40	80	01	18	14	80	01	18	236	236	X		X	GLDL	4	12
19790022	EDINGBURGH SEA	3.1	77	36.50	99	31.13	80	01	20	22	80	01	20	262	262	X		X	GLDL	4	12
19790022	EDINGBURGH SEA	2	77	37.18	100	22.40	80	01	21	NS	80	04	11	10	236	X		X	RCM4/m		
19790022	EDINGBURGH SEA	3.1	77	36.50	99	31.13	80	01	21	NS	80	02	23	10	262	X		X	RCM4/m		
19790022	EDINGBURGH SEA	3.2	77	36.50	99	31.13	80	02	23	NS	80	04	11	10	262	X		X	RCM4/m		
19790022	EDINGBURGH SEA	3.2	77	36.50	99	31.13	80	04	09	09	80	04	09	262	262	X		X	GLDL	4	12
19790022	EDINGBURGH SEA	2.2	77	37.18	100	22.40	80	04	13	17	80	04	13	236	236	X		X	GLDL	4	12
19800013	DUNDAS IS	1	76	10.00	94	55.00	80	03	08	NS	80	04	11	12	70	X		X	RCM4/m		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19800013	DUNDAS IS	2	76	11.00	94	57.60	80	03	08	NS	80	04	11	12	37	X		X	RCM4/m		
19800013	DUNDAS IS	3	76	11.90	94	59.60	80	03	08	NS	80	04	11	12	38	X		X	RCM4/m		
19800013	DUNDAS IS	4	76	10.80	95	33.40	80	03	08	NS	80	04	12	12	142	X		X	RCM4/m		
19800013	DUNDAS IS	5	76	9.40	94	53.60	80	03	21	NS	80	04	01	12	27	X		X	RCM4/m		
19800014	W. LOUGHEED IS	4.1	77	11.50	105	38.00	80	04	10	NS	80	05	01	10	63	X		X	RCM4/m		
19800014	W. LOUGHEED IS	4.2	77	11.50	105	38.00	80	04	10	NS	80	04	13	28	63	X		X	RCM4/m		
19800014	W. LOUGHEED IS	4.3	77	11.50	105	38.00	80	04	10	NS	80	05	01	60	63	X		X	RCM4/m		
19800014	W. LOUGHEED IS	5.1	76	56.90	107	41.00	80	04	10	NS	80	05	01	10	525	X		X	RCM4/m		
19800014	W. LOUGHEED IS	5.2	76	56.90	107	41.00	80	04	10	NS	80	04	14	268	525	X		X	RCM4/m		
19800014	W. LOUGHEED IS	6.1	76	50.50	108	34.00	80	04	11	NS	80	04	26	10	72	X		X	RCM4/m		
19800014	W. LOUGHEED IS	6.2	76	50.50	108	34.00	80	04	11	NS	80	05	01	36	72	X		X	RCM4/m		
19800014	W. LOUGHEED IS	6.3	76	50.50	108	34.00	80	04	11	NS	80	05	01	66	72	X		X	RCM4/m		
19810007	MCDOUGALL SD	71	75	8.50	97	27.30	81	04	19	22	81	04	19	83	NS	X		X	GLDL		
19810007	MCDOUGALL SD	72	75	7.20	97	12.00	81	04	19	22	81	04	19	174	NS	X		X	GLDL		
19810007	MCDOUGALL SD	73	75	6.50	96	57.40	81	04	19	23	81	04	19	200	NS	X		X	GLDL		
19810007	MCDOUGALL SD	74	75	5.50	96	42.20	81	04	20	00	81	04	20	200	NS	X		X	GLDL		
19810007	WELLINGTON CH	94	74	52.80	92	25.80	81	04	25	21	81	04	25	142	NS	X		X	GLDL		
19810007	WELLINGTON CH	95	74	52.80	92	11.00	81	04	25	21	81	04	25	86	NS	X		X	GLDL		
19810007	WELLINGTON CH	92	74	52.80	93	6.00	81	04	25	22	81	04	25	184	NS	X		X	GLDL		
19810007	WELLINGTON CH	93	74	52.80	92	43.00	81	04	25	22	81	04	25	131	NS	X		X	GLDL		
19810007	WELLINGTON CH	91	74	52.80	93	20.00	81	04	25	23	81	04	25	137	NS	X		X	GLDL		
19810108	MCDOUGALL SD	6	75	21.50	96	48.00	81	08	20	NS	81	08	20	12	12				NS		
19820003	PENNY ST	A1	76	42.50	96	59.00	82	03	19	19	82	03	19	241	245	X		X	GLDL		
19820003	PENNY ST	A1	76	42.30	97	1.00	82	03	22	16	82	03	22	233	240	X		X	GLDL		
19820003	PENNY ST	A2	76	39.90	97	19.20	82	03	22	17	82	03	22	121	122	X		X	GLDL		
19820003	PENNY ST	A3	76	34.10	97	31.40	82	03	22	19	82	03	22	143	152	X		X	GLDL		
19820003	PENNY ST	A4	76	35.00	97	46.50	82	03	22	20	82	03	22	189	196	X		X	GLDL		
19820003	MACLEAN ST	B1	78	0.50	102	55.90	82	03	23	19	82	03	23	427	521	X		X	GLDL		
19820003	MACLEAN ST	B2	77	39.10	102	25.50	82	03	23	20	82	03	23	282	285	X		X	GLDL		
19820003	MACLEAN ST	B3	77	33.90	103	27.30	82	03	23	21	82	03	23	244	247	X		X	GLDL		
19820003	MACLEAN ST	B4	77	27.60	104	31.60	82	03	24	00	82	03	24	327	329	X		X	GLDL		
19820003	HAZEN ST	D1	77	3.00	106	15.70	82	03	24	18	82	03	24	157	158	X		X	GLDL		
19820003	HAZEN ST	D2	76	52.00	107	47.70	82	03	24	19	82	03	24	407	408	X		X	GLDL		
19820003	BYAM MARTIN CH	C1	76	3.70	104	33.20	82	03	25	18	82	03	25	126	130	X		X	GLDL		
19820003	BYAM MARTIN CH	C2	76	2.00	104	38.00	82	03	25	19	82	03	25	200	203	X		X	GLDL		
19820003	BYAM MARTIN CH	C3	76	0.60	104	55.20	82	03	25	19	82	03	25	182	185	X		X	GLDL		
19820003	BYAM MARTIN CH	C4	75	58.30	105	11.00	82	03	25	20	82	03	25	140	144	X		X	GLDL		
19820003	BYAM MARTIN CH	C5	75	53.40	105	20.50	82	03	25	21	82	03	25	212	215	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19820107	WELLINGTON CH	92	74	52.00	93	6.00	82	04	08	NS	82	04	08	150	NS	X		X	NS		
19820107	MCDOUGALL SD	73	75	7.20	97	12.00	82	04	10	NS	82	04	10	205	NS	X		X	NS		
19820130	MACLEAN ST	K08	78	7.70	104	33.60	82	01	19	NS	82	01	19	470	554	X		X	GLDL	3	8
19820130	HAZEN ST	F24	77	33.30	109	9.90	82	01	22	NS	82	01	22	350	NS	X		X	GLDL	3	8
19820130	HAZEN ST	F24	77	33.30	109	9.90	82	05	05	NS	82	05	05	350	NS	X		X	GLDL	3	8
19820130	MACLEAN ST	K08	78	7.70	104	33.60	82	05	08	NS	82	05	08	470	554	X		X	GLDL	3	8
19820131	MOULD BAY	6955	76	13.80	119	34.00	82	06	06	NS	83	06	01	14.2	14.2			X	TG3A/m		
19820131	ISACHSEN	6910	78	47.00	103	32.00	83	06	06	NS	84	06	01	12.8	12.8			X	TG3A/m		
19830004A	NANSEN SD	A5	80	50.00	89	48.00	83	04	25	19	83	04	25	496	NS	X		X	GLDL		
19830005	WELLINGTON CH	S01	75	41.10	93	29.80	83	03	20	12	83	03	20	251	251	X		X	GLDL		
19830005	MACLEAN ST	B02	77	37.00	102	18.30	83	03	24	17	83	03	24	299	299	X		X	GLDL		
19830005	MACLEAN ST	B04	77	30.00	104	28.70	83	03	24	19	83	03	24	314	314	X		X	GLDL		
19830005	HAZEN ST	D06	76	56.50	108	46.00	83	03	24	21	83	03	24	450	450	X		X	GLDL		
19830005	HAZEN ST	08	77	16.70	109	42.60	83	03	24	23	83	03	24	383	383	X		X	GLDL		
19830005	PR GUSTAF ADOLF	P02	78	49.30	107	52.20	83	03	27	22	83	03	27	394	394	X		X	GLDL		
19830005	PR GUSTAF ADOLF	P01	78	28.80	105	33.20	83	03	27	23	83	03	27	493	493	X		X	GLDL		
19830005	PENNY ST	A08	76	51.00	99	14.70	83	03	29	17	83	03	29	540	540	X		X	GLDL		
19830005	PENNY ST	A01	76	38.00	980	1.00	83	03	29	18	83	03	29	182	183	X		X	GLDL		
19830005	PENNY ST	A04	76	35.50	97	43.10	83	03	29	19	83	03	29	166	166	X		X	GLDL		
19830005	PENNY ST	A03	76	40.60	97	33.70	83	03	29	21	83	03	29	45	45	X		X	GLDL		
19830005	PENNY ST	A05	76	40.70	97	21.80	83	03	29	21	83	03	29	220	221	X		X	GLDL		
19830005	PENNY ST	A02	76	39.30	97	0.30	83	03	29	22	83	03	29	252	252	X		X	GLDL		
19830005	PENNY ST	A01	76	42.30	97	0.10	83	03	29	23	83	03	29	305	305	X		X	GLDL		
19830005	NORWEGIAN BAY	V01	77	23.20	92	9.20	83	04	01	17	83	04	01	445	445	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	19	83	04	01	373	373	X		X	GLDL		
19830005	PENNY ST	A03	76	35.60	97	30.40	83	04	01	19	83	04	01	76	78	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	20	83	04	01	377	377	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	21	83	04	01	375	375	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	21	83	04	01	379	379	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	22	83	04	01	375	375	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	22	83	04	01	375	375	X		X	GLDL		
19830005	PENNY ST	A02	76	40.40	97	9.10	83	04	01	23	83	04	01	375	375	X		X	GLDL		
19830005	PENNY ST	A06	76	14.30	95	58.00	83	04	02	00	83	04	02	198	198	X		X	GLDL		
19830008	BYAM MARTIN CH	66	76	4.70	104	28.30	83	03	29	17	83	03	29	114	118	X		X	GLDL		
19830008	BYAM MARTIN CH	64	76	0.70	104	56.20	83	03	29	18	83	03	29	114	177	X		X	GLDL		
19830008	BYAM MARTIN CH	65	76	3.20	104	40.70	83	03	29	18	83	03	29	175	180	X		X	GLDL		
19830008	BYAM MARTIN CH	63	75	58.10	105	11.40	83	03	29	19	83	03	29	132	136	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19830008	BYAM MARTIN CH	62	75	56.20	105	25.90	83	03	29	NS	83	03	29	173	178	X		X	GLDL		
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	NS	83	05	23	18	NS	X		X	RCM4/m		
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	NS	84	04	30	73	NS	X		X	RCM4/m		
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	NS	84	04	30	123	NS	X		X	RCM4/m		
19830008	BYAM MARTIN CH	CM62	75	55.60	105	22.60	83	04	02	NS	83	05	23	18	NS	X		X	RCM4/m		
19830008	BYAM MARTIN CH	CM63	75	58.10	105	10.60	83	04	02	NS	83	05	18	18	NS	X		X	RCM4/m		
19830008	BYAM MARTIN CH	CM65	76	2.90	104	38.80	83	04	02	NS	83	04	19	18	NS	X		X	RCM4/m		
19830008	BYAM MARTIN CH	CM66	76	4.60	104	27.90	83	04	02	NS	83	05	23	18	NS	X		X	RCM4/m		
19830076	EDINGBURGH SEA		77	44.60	99	6.00	83	01	24	NS	83	01	24	115	118	X		X	GLDL	NS	14
19830076	EDINGBURGH SEA		77	44.60	99	6.00	83	03	26	NS	83	03	26	115	118	X		X	GLDL	NS	18
19830077	MOULD BAY	6955	76	17.00	119	28.00	83	06	01	NS	84	05	29	14.2	14.2			X	TG3A/m		
19830077	AUDHILD BAY	6702	81	32.00	91	10.00	83	06	05	NS	84	05	27	16.5	16.5			X	TG3A/m		
19840039	CROZIER ST	CS2	75	23.00	96	57.00	84	08	12	NS	84	08	12	16	16				NS		
19840039	GARROW BAY	B6	75	21.50	96	48.00	84	08	15	NS	84	08	15	08	08				NS		
19840039	GARROW BAY	GB7	75	22.10	96	48.00	84	08	15	NS	84	08	15	06	06				NS		
19840039	GARROW BAY	GB8	75	23.00	96	45.00	84	08	15	NS	84	08	15	09	09				NS		
19840039	COMINCO BAY	CB5	75	21.50	96	51.00	84	08	16	NS	84	08	16	12	12				NS		
19840049A	WELLINGTON CH	96	74	47.70	93	18.00	84	04	10	15	84	04	10	NS	122	X		X	GLDL		
19840049A	WELLINGTON CH	94	74	47.80	92	54.10	84	04	10	16	84	04	10	NS	146	X		X	GLDL		
19840049A	WELLINGTON CH	95	74	47.70	93	9.10	84	04	10	16	84	04	10	NS	155	X		X	GLDL		
19840049A	WELLINGTON CH	92	74	47.60	92	17.50	84	04	10	17	84	04	10	NS	75	X		X	GLDL		
19840049A	WELLINGTON CH	93	74	47.50	92	34.20	84	04	10	17	84	04	10	NS	122	X		X	GLDL		
19840049A	WELLINGTON CH	91	74	47.50	92	9.40	84	04	10	18	84	04	10	NS	77	X		X	GLDL		
19840049A	WELLINGTON CH	125	75	14.00	92	36.00	84	04	12	16	84	04	12	NS	193	X		X	GLDL		
19840049A	WELLINGTON CH	126	75	14.10	92	29.00	84	04	12	16	84	04	12	NS	50	X		X	GLDL		
19840049A	WELLINGTON CH	124	75	14.30	92	42.60	84	04	12	17	84	04	12	NS	170	X		X	GLDL		
19840049A	WELLINGTON CH	122	75	14.60	93	15.10	84	04	12	18	84	04	12	NS	231	X		X	GLDL		
19840049A	WELLINGTON CH	123	75	14.20	93	0.10	84	04	12	18	84	04	12	NS	150	X		X	GLDL		
19840049A	WELLINGTON CH	121	75	15.20	93	23.20	84	04	12	19	84	04	12	NS	138	X		X	GLDL		
19840049A	WELLINGTON CH	141	75	43.60	94	45.60	84	04	12	21	84	04	12	NS	80	X		X	GLDL		
19840049A	WELLINGTON CH	140	75	39.60	94	54.50	84	04	12	22	84	04	12	NS	59	X		X	GLDL		
19840049A	CROZIER ST	173	75	26.40	96	7.80	84	04	12	23	84	04	12	NS	49	X		X	GLDL		
19840049A	MCDOUGALL SD	74	75	6.90	96	37.50	84	04	14	15	84	04	14	NS	113	X		X	GLDL		
19840049A	MCDOUGALL SD	73	75	7.30	96	52.40	84	04	14	16	84	04	14	NS	230	X		X	GLDL		
19840049A	MCDOUGALL SD	71	75	8.40	97	25.00	84	04	14	17	84	04	14	NS	101	X		X	GLDL		
19840049A	MCDOUGALL SD	72	75	8.10	97	10.00	84	04	14	17	84	04	14	NS	230	X		X	GLDL		
19840049A	MCDOUGALL SD	70	75	8.60	97	30.40	84	04	14	18	84	04	14	NS	61	X		X	GLDL		
19840049A	HAZEN ST	L01	76	57.60	108	58.00	84	04	14	18	84	04	14	60	66	X		X	GLDL		
19840049A	HAZEN ST	L02	77	1.20	108	56.80	84	04	14	18	84	04	14	325	329	X		X	GLDL		
19840049A	CROZIER ST	170	75	23.80	97	12.00	84	04	14	20	84	04	14	NS	105	X		X	GLDL		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19840049A	CROZIER ST	171	75	23.80	97	6.90	84	04	14	20	84	04	14	NS	210	X		X	GLDL		
19840049A	HAZEN ST	L03	77	7.20	108	32.70	84	04	14	20	84	04	14	539	544	X		X	GLDL		
19840049A	CROZIER ST	172	75	23.70	96	59.90	84	04	14	21	84	04	14	NS	333	X		X	GLDL		
19840049A	MACLEAN ST	E01	77	47.10	105	45.40	84	04	14	23	84	04	14	180	186	X		X	GLDL		
19840049A	PR GUSTAF ADOLF	L06	77	42.00	106	7.70	84	04	14	23	84	04	14	224	229	X		X	GLDL		
19840049A	MACLEAN ST	E02	77	53.10	105	38.40	84	04	15	01	84	04	15	331	337	X		X	GLDL		
19840049A	MACLEAN ST	E04	78	12.40	104	35.10	84	04	15	02	84	04	15	508	513	X		X	GLDL		
19840049A	MACLEAN ST	E05	78	15.30	104	28.00	84	04	15	04	84	04	15	125	131	X		X	GLDL		
19840049A	PENNY ST	164	76	41.70	97	9.20	84	04	15	18	84	04	15	NS	344	X		X	GLDL		
19840049A	PENNY ST	165	76	43.20	97	2.10	84	04	15	18	84	04	15	NS	293	X		X	GLDL		
19840049A	PENNY ST	162	76	37.80	97	32.00	84	04	15	19	84	04	15	NS	190	X		X	GLDL		
19840049A	PENNY ST	163	76	39.50	97	20.00	84	04	15	19	84	04	15	NS	94	X		X	GLDL		
19840049A	PENNY ST	160	76	33.90	97	50.40	84	04	15	20	84	04	15	NS	146	X		X	GLDL		
19840049A	PENNY ST	161	76	35.80	97	43.70	84	04	15	20	84	04	15	NS	180	X		X	GLDL		
19840049A	WELLINGTON CH	143	76	3.40	94	20.20	84	04	16	17	84	04	16	NS	101	X		X	GLDL		
19840049A	WELLINGTON CH	144	76	8.60	94	15.30	84	04	16	17	84	04	16	NS	99	X		X	GLDL		
19840049A	WELLINGTON CH	145	76	12.50	94	11.00	84	04	16	18	84	04	16	NS	80	X		X	GLDL		
19840049A	WELLINGTON CH	146	76	14.80	94	9.20	84	04	16	18	84	04	16	NS	68	X		X	GLDL		
19840049A	PENNY ST	PS01	76	38.70	96	54.60	84	04	16	NS	85	04	16	43	NS	X		X	RCM4/m		
19840049A	PENNY ST	PS01	76	38.70	96	54.60	84	04	23	NS	84	09	10	131	NS	X		X	RCM4/m		
19840049A	PENNY ST	PS02	76	36.20	97	25.20	84	04	23	NS	85	04	18	138	NS	X		X	RCM4/m		
19840049A	PENNY ST	PS02	76	36.20	97	25.20	84	04	23	NS	85	04	12	49	NS	X		X	RCM4/m		
19840049A	MACLEAN ST	E03	78	1.00	105	15.00	84	04	24	17	84	04	24	385	390	X		X	GLDL		
19840049A	EDINGBURGH SEA	167	77	2.30	100	13.00	84	04	24	19	84	04	24	348	353	X		X	GLDL		
19840049A	EDINGBURGH SEA	166	76	51.40	98	37.00	84	04	24	20	84	04	24	454	459	X		X	GLDL		
19840049B	BALLANTYNE ST	P01.1	77	42.10	115	57.50	84	04	07	19	84	04	07	126	128	X		X	GLDL		
19840049B	BALLANTYNE ST	P02.1	77	44.50	116	18.20	84	04	07	20	84	04	07	182	184	X		X	GLDL		
19840049B	BALLANTYNE ST	P01.1	77	43.20	116	0.10	84	04	07	NS	85	04	29	35	NS	X		X	RCM4/m		
19840049B	BALLANTYNE ST	P01.1	77	43.20	116	0.10	84	04	07	NS	85	04	29	83	NS	X		X	RCM4/m		
19840049B	BALLANTYNE ST	P01.2	77	42.90	116	2.00	84	04	18	23	84	04	18	83	86	X		X	GLDL		
19840049B	BALLANTYNE ST	P02.4	77	42.70	116	22.00	84	04	18	24	84	04	18	149	151	X		X	GLDL		
19840049B	BALLANTYNE ST	P00	77	15.30	112	44.00	84	04	19	01	84	04	19	452	454	X		X	GLDL		
19840059	NORWEGIAN BAY	068	77	7.60	91	23.40	84	01	16	NS	84	04	23	95	95			X	TG3A/m		
19840059	NORWEGIAN BAY		77	8.00	91	23.90	84	01	18	NS	84	01	18	75	79	X		X	GLDL	3	6
19840059	NORWEGIAN BAY		77	8.00	91	23.90	84	04	22	NS	84	04	22	70	79	X		X	GLDL	3	5
19840060	AUDHILD BAY	6702	81	32.50	91	10.00	84	05	28	NS	85	05	21	16.5	16.5			X	TG12/m		
19840060	MOULD BAY	6955	76	13.80	119	34.00	84	05	30	NS	85	05	17	14.2	14.2			X	TG12/m		
19840060	ISACHSEN	6910	78	47.00	103	30.00	84	06	01	NS	84	07	02	12.8	12.8			X	TG3A/m		
19840060	ISACHSEN	6910	78	47.00	103	30.00	84	06	01	NS	85	05	21	12.8	12.8			X	TG12/m		
19850015	BALLANTYNE ST		77	43.20	116	0.10	85	04	24	NS	85	04	24	90	NS				NS		

TABLE 2 - TEMPERATURE-SALINITY DATA

DATASET	AREA	STN	LATITUDE		LONGITUDE		START				STOP			DEPTHS(M)						REPEAT	
			DEG	MIN	DEG	MIN	YR	MN	DY	HR	YR	MN	DY	CAST	WATER	C	S	T	INSTR	HR	NO
19850042	MOULD BAY	6955	76	13.80	119	34.00	85	05	17	NS	86	04	14	14.2	14.2			X	TG12/m		
19850042	MOULD BAY	6955	76	13.80	119	34.00	85	05	17	NS	86	05	20	14.2	14.2			X	TG3A/m		
19850042	AUDHILD BAY	6702	81	32.50	91	10.00	85	05	20	NS	86	05	18	16.5	16.5			X	TG12/m		
19850042	AUDHILD BAY	6702	81	32.50	91	10.00	85	05	20	NS	86	05	18	16.5	16.5			X	WLR5/m		
19850042	ISACHSEN	6910	78	47.00	103	30.00	85	05	21	NS	86	05	19	12.8	12.8			X	TG3A/m		
19850042	ISACHSEN	6910	78	47.00	103	30.00	85	05	21	NS	86	05	19	12.8	12.8			X	TG12/m		
19850044	PENNY ST	PS2	76	38.70	96	54.60	85	04	08	21	85	04	08	184	NS	X		X	GLDL		
19850044	PENNY ST	PO1.1	77	43.20	116	0.10	85	04	22	18	85	04	22	86	NS	X		X	GLDL		
19860018	WELLINGTON CH	2	75	12.10	93	14.00	86	08	28	04	86	08	28	52	NS	X		X	GLDL		
19860018	WELLINGTON CH	6	76	2.70	93	10.00	86	08	29	04	86	08	29	52	NS	X		X	GLDL		
19860018	WELLINGTON CH	49	76	9.20	93	2.40	86	09	02	06	86	09	02	52	NS	X		X	GLDL		
19860018	WELLINGTON CH	60	74	47.00	92	17.80	86	09	03	06	86	09	03	55	NS	X		X	GLDL		
19860018	AUSTIN CH	84	75	47.80	103	58.50	86	09	07	04	86	09	07	200	NS	X		X	GLDL		
19860018	AUSTIN CH	93	75	43.60	104	28.50	86	09	08	03	86	09	08	123	NS	X		X	GLDL		
19860018	AUSTIN CH	101	75	27.80	102	41.00	86	09	08	21	86	09	08	55	NS	X		X	GLDL		
19860018	AUSTIN CH	106	75	18.50	103	6.50	86	09	09	02	86	09	09	104	NS	X		X	GLDL		
19860018	BYAM CH	122	74	50.20	104	25.40	86	09	11	06	86	09	11	160	NS	X		X	GLDL		
19860018	BARROW STRAIT	134	74	49.50	97	56.00	86	09	12	03	86	09	12	123	NS	X		X	GLDL		

11.2 CURRENT-METER DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source. Multiple meters are differentiated as 1.1, 1.2, 1.3, for example.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over. If the data represent a single current profile, then the start and stop dates will be the same.
EFF LEN	Effective record length, days of both speed and direction data. May be blank if not obvious from the available documentation.
DT (MN)	Sampling rate in minutes.
DEPTHS-INSTR	Instrument depth, measured from surface, in metres.
DEPTH-WATER	Water depth in metres.
INSTR TYPE	Instrument type: AAND - Aanderaa RCM-4 or RCM5 AMF - AMF vector averaging BEND - Bendix BR - Braincon CMDR - CMDR (modified to record on Aanderaa-type tape) CUSH - Cushing electromagnetic DOWS - Dows- Deep Ocean Work System vector-measuring E-M - Electromagnetic ENDE - Endeco GEOD - Geodyne GO - General Oceanics HYDR - Hydrowerstatten HYPR - Hydro Products (Savonius rotor/vane) HYTC - Hytech MARA - Marine Advisors M-MC - Marsh McBirney electromagnetic NEYR - Neyrpic CM NB - Neil Brown acoustic NS - Not specified OSS4 - Ocean Systems model S4 electromagnetic RCM4 - Aanderaa RCM-4 RICH - Richardson SETR - Sea-Track
ADDIT SENSOR	Other parameters measured - pressure (P), temperature (T), conductivity (C). Each measurement is qualified by one of the following: X - measurements of this parameter were made

'NS' entries indicate unavailable or inapplicable data.

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19610009	PR GUSTAF ADOLF		78	28.00	105	16.00	61	04	13	61	04	13	01	NS	30	478	E-M			
19610009	PR GUSTAF ADOLF		78	47.00	105	31.00	61	04	25	61	04	25	01	NS	30	298	E-M			
19610009	PR GUSTAF ADOLF		78	35.00	105	28.00	61	04	30	61	04	30	01	NS	30	403	E-M			
19610009	PR GUSTAF ADOLF		78	28.00	105	16.00	61	05	03	61	05	03	01	NS	30	478	E-M			
19740018	MACLEAN ST	1	78	8.92	101	12.67	74	06	20	74	07	05	00	NS	NS	135	NS			
19740018	MACLEAN ST	2	78	7.88	101	40.37	74	06	20	74	07	07	00	NS	NS	68	NS			
19740018	MACLEAN ST	3	78	0.00	101	15.00	74	06	20	74	07	08	00	NS	NS	262	NS			
19740018	MACLEAN ST	4	77	49.00	100	47.00	74	06	20	74	07	08	00	NS	NS	230	NS			
19740018	EDINGBURGH SEA	5	77	40.00	99	6.05	74	06	20	74	07	01	00	NS	NS	175	NS			
19740018	EDINGBURGH SEA	6	77	35.00	101	0.00	74	06	20	74	07	01	00	NS	NS	349	NS			
19740018	MACLEAN ST	7.1	78	5.00	101	6.00	74	06	20	74	07	08	00	NS	NS	60	NS			
19740018	MACLEAN ST	7.2	78	5.00	101	6.00	74	06	21	74	06	22	01	60	02	60	NS			
19740018	MACLEAN ST	7.3	78	5.00	101	6.00	74	07	04	74	07	05	01	60	NS	60	NS			
19740025	GREELY FD	1	80	34.40	79	44.50	74	04	14	74	07	23	NS	60	01	221	RCM4		X	
19740025	GREELY FD	1	80	34.40	79	44.50	74	04	14	74	07	23	NS	60	220	221	RCM4		X	
19740025	GREELY FD	3	80	32.90	79	44.50	74	04	15	74	07	23	NS	60	01	354	RCM4		X	
19740025	GREELY FD	3	80	32.90	79	44.50	74	04	15	74	07	23	NS	60	353	354	RCM4		X	
19740025	GREELY FD	2	80	33.60	79	44.50	74	04	17	74	07	23	NS	60	01	209	RCM4		X	
19740025	GREELY FD	2	80	33.60	79	44.50	74	04	17	74	07	23	NS	60	208	209	RCM4		X	
19740134	BYAM CH	333	75	31.10	105	19.00	74	03	31	74	04	20	12	NS	06	88	NS			
19740134	BYAM CH	351	75	32.00	105	26.00	74	03	31	74	04	20	18	NS	61	64	NS			
19740134	BYAM CH	375	75	31.00	105	19.00	74	03	31	74	04	20	16	NS	85	88	NS			
19740134	BYAM CH	324	75	29.20	105	3.00	74	04	01	74	04	20	18	NS	04	143	NS			
19740134	BYAM CH	328	75	29.20	105	3.00	74	04	01	74	04	20	20	NS	140	143	NS			
19740134	BYAM CH	327	75	27.80	104	51.00	74	04	03	74	04	20	16	NS	85	146	NS			
19740134	BYAM CH	334	75	27.80	104	51.00	74	04	03	74	04	20	06	NS	143	146	NS			
19740134	BYAM CH	376	75	26.70	104	40.00	74	04	03	74	04	20	08	NS	82	85	NS			
19750016	HAZEN ST	1	76	34.00	113	28.00	75	06	01	75	06	30	10	30	NS	355	RCM4		X	X
19750016	HAZEN ST	2	76	47.00	112	27.00	75	06	03	75	07	20	04	30	05	390	RCM4		X	X
19750016	FITZWILLIAM ST	4	76	44.00	115	25.00	75	06	09	75	07	19	41	30	05	305	RCM4		X	X
19750016	FITZWILLIAM ST	5	76	33.00	115	47.00	75	06	10	75	07	03	24	30	05	335	RCM4		X	X
19750016	FITZWILLIAM ST	3	76	36.00	114	15.00	75	06	11	75	07	03	23	30	05	320	RCM4		X	X
19750017	E. SABINE PEN	6	76	24.60	107	20.83	75	04	17	75	05	08	NS	05	NS	354	RCM4			
19750017	E. SABINE PEN	7	76	27.95	107	20.58	75	05	08	75	06	17	NS	05	NS	357	RCM4			

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19750018	DESBARATS ST	9	76	50.00	106	0.00	75	01	30	75	06	23	145	60	05	155	RCM4		X	X
19750018	MACLEAN ST	10	77	20.00	102	30.00	75	02	06	75	07	06	00	60	05	229	RCM4		X	X
19750018	HAZEN ST	8	77	0.00	110	30.00	75	02	09	75	06	23	00	60	05	433	RCM4		X	X
19750019	BYAM MARTIN CH	11	76	24.67	107	48.78	75	03	02	75	04	12	03	60	03	132	CUSH			
19750020	HECLA & GRIPER	1	76	21.92	110	53.08	75	12	06	76	02	27	83	NS	10	138	RCM4		X	X
19750021	MACLEAN ST	3.1	78	5.37	101	50.67	76	01	13	76	02	04	23	NS	05	60	RCM4		X	X
19750021	MACLEAN ST	3.2	78	5.37	101	50.67	76	02	04	76	03	04	30	NS	05	60	RCM4		X	X
19750021	MACLEAN ST	3.4	78	5.37	101	50.67	76	03	08	76	04	20	00	60	05	60	CUSH			
19750021	MACLEAN ST	3.5	78	5.37	101	50.67	76	03	08	76	04	20	00	60	21	60	CUSH			
19750021	MACLEAN ST	3.6	78	5.37	101	50.67	76	03	08	76	04	20	00	60	40	60	CUSH			
19750021	MACLEAN ST	3.7	78	5.37	101	50.67	76	03	08	76	04	20	00	60	50	60	CUSH			
19750021	MACLEAN ST	3.3	78	5.37	101	50.67	76	03	25	76	04	21	28	NS	05	60	RCM4		X	X
19750022	HAZEN ST	8.1	77	0.00	110	30.00	75	12	04	76	05	25	47	60	NS	325	CUSH			
19750022	PR GUSTAF ADOLF	7.1	78	30.00	107	0.00	76	01	01	76	03	28	88	60	NS	385	CUSH			
19750022	PR GUSTAF ADOLF	7.2	78	30.00	107	0.00	76	03	31	76	05	29	60	60	NS	385	CUSH			
19750022	PR GUSTAF ADOLF	8.2	77	0.00	110	30.00	76	04	09	76	05	25	47	60	NS	325	CUSH			
19750039	GREELY FD	1	80	34.40	79	43.70	75	04	01	75	06	15	NS	10	213	214	RCM4		X	
19750039	GREELY FD	1	80	34.40	79	43.70	75	06	09	75	06	21	NS	10	220	221	RCM4		X	
19750039	GREELY FD	2	80	33.60	79	44.50	75	06	09	75	06	21	NS	10	208	209	RCM4		X	
19750039	GREELY FD	4	80	33.30	79	37.90	75	06	09	75	06	21	NS	10	353	354	RCM4		X	
19760014	HECLA & GRIPER	2	76	24.90	111	11.22	76	01	15	76	04	08	28	NS	10	286	RCM4		X	X
19760014	HECLA & GRIPER	2.2	76	24.90	111	11.22	76	02	12	76	04	08	04	NS	10	286	RCM4		X	X
19760014	HECLA & GRIPER	2.3	76	24.90	111	11.22	76	04	08	76	04	17	00	NS	10	286	RCM4		X	X
19760015	ARNOTT ST	4	76	18.00	103	28.00	76	05	15	76	06	16	00	30	40	40	RCM4		X	X
19760015	ERSKINE IN	6	76	19.00	102	13.00	76	05	16	76	06	16	32	30	105	150	RCM4		X	X
19760015	ERSKINE IN	5	76	19.00	102	13.00	76	05	17	76	06	16	31	30	105	150	RCM4		X	X
19760016	PENNY ST	12.1	76	41.50	97	7.00	76	04	13	76	05	06	18	15	NS	187	M-MC			
19760016	PENNY ST	12.2	76	41.50	97	7.00	76	04	13	76	05	06	23	15	NS	187	ENDE			
19760016	PENNY ST	12.3	76	41.50	97	7.00	76	04	13	76	04	14	.5	60	NS	187	ENDE			

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19760016	PENNY ST	14.3	76	38.50	97	23.80	76	04	16	76	04	17	.5	60	NS	260	ENDE			
19760016	PENNY ST	14.1	76	38.50	97	23.80	76	04	17	76	05	07	20	15	NS	260	M-MC			
19760016	PENNY ST	14.2	76	38.50	97	23.80	76	04	17	76	05	07	20	15	NS	260	ENDE			
19760017	BYAM CH	B1	75	32.70	105	25.20	76	04	20	76	06	25	96	60	.5	45	RCM4			
19760017	BYAM CH	B2.1	75	30.20	105	8.70	76	04	22	76	07	15	83	60	.5	87	RCM4			
19760017	BYAM CH	B4.1	75	26.90	104	46.50	76	04	28	76	06	28	61	60	.5	150	RCM4			
19760017	BYAM CH	B2.2	75	30.20	105	8.70	76	05	01	76	06	28	58	60	85	87	RCM4		X	X
19760017	AUSTIN CH	A5.1	75	31.50	102	49.20	76	05	02	76	06	15	41	60	.5	56	RCM4			
19760017	AUSTIN CH	A2.2	75	26.40	103	38.70	76	05	08	77	03	14	104	60	142	144	RCM4		X	X
19760017	AUSTIN CH	A3.1	75	28.20	103	21.60	76	05	08	76	06	18	40	60	.5	170	RCM4			
19760017	AUSTIN CH	A2.1	75	26.40	103	38.70	76	05	09	76	07	02	53	60	.5	144	RCM4			
19760017	AUSTIN CH	A1.1	75	25.20	103	50.10	76	05	10	76	07	21	72	60	.5	110	RCM4			
19760017	AUSTIN CH	A1.2	75	25.20	103	50.10	76	05	10	76	07	21	71	60	100	110	RCM4		X	X
19760017	AUSTIN CH	A3.2	75	28.20	103	21.60	76	05	10	76	06	22	42	60	168	170	RCM4		X	X
19760017	AUSTIN CH	A4.2	75	30.20	103	1.00	76	05	10	76	06	23	43	60	240	242	RCM4		X	X
19760017	AUSTIN CH	A5.2	75	31.50	102	49.20	76	05	10	76	05	17	06	60	54	56	RCM4		X	X
19760017	BYAM CH	B3.1	75	26.90	104	57.40	76	05	10	76	06	10	30	60	62	64	RCM4		X	X
19760017	BYAM CH	B5.1	75	25.50	104	37.80	76	05	12	76	07	25	73	60	.5	46	RCM4			
19760017	BYAM CH	B5.2	75	25.50	104	37.80	76	05	12	76	06	29	47	60	44	46	RCM4		X	
19760017	AUSTIN CH	A4.1	75	30.20	103	1.00	76	05	13	76	07	22	79	60	.5	242	RCM4			
19770022	HECLA & GRIPER	1.1	76	17.00	111	21.00	77	03	24	77	04	16	24	60	10	290	RCM4		X	X
19770022	HECLA & GRIPER	1.2	76	17.00	111	21.00	77	04	17	77	05	01	15	60	10	290	RCM4		X	X
19770023	EDINGBURGH SEA	2.2	77	37.57	99	27.43	77	03	02	77	06	29	120	60	02	396	RCM4		X	X
19770023	HAZEN ST	3.2	76	58.05	110	40.43	77	03	14	77	07	01	109	60	02	120	RCM4		X	X
19770024	HAZEN ST	1	76	24.00	113	11.00	78	01	18	78	04	17	90	30	10	232	RCM4		X	X
19770025	HAZEN ST	2	76	43.00	109	46.00	78	01	11	78	04	09	89	30	10	165	RCM4		X	X
19770026	CROZIER ST	C1.1	75	31.60	97	22.20	77	03	27	77	06	11	76	60	.5	64	RCM4			
19770026	CROZIER ST	C1.2	75	31.60	97	22.20	77	03	28	77	06	11	75	60	25	64	RCM4		X	X
19770026	CROZIER ST	C2.3	75	31.50	97	19.80	77	03	29	77	07	01	94	60	52	54	RCM4		X	X
19770026	CROZIER ST	C1.3	75	31.60	97	22.20	77	03	30	77	04	14	17	60	62	64	RCM4		X	X
19770026	CROZIER ST	C2.1	75	31.50	97	19.80	77	03	30	77	06	11	73	60	.5	54	RCM4			
19770026	CROZIER ST	C2.2	75	31.50	97	19.80	77	03	30	77	06	11	72	60	25	54	RCM4		X	X
19770026	CROZIER ST	C6.2	75	28.80	97	2.90	77	04	03	77	08	07	125	60	271	273	RCM4		X	X
19770026	CROZIER ST	C6.1	75	28.80	97	2.90	77	04	04	77	06	12	69	60	.5	273	RCM4			

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19770026	CROZIER ST	C5.4	75	30.00	97	5.10	77	04	05	78	03	21	350	60	317	319	RCM4		X	X
19770026	CROZIER ST	C5.1	75	30.00	97	5.10	77	04	06	77	06	12	66	60	.5	319	RCM4			
19770026	CROZIER ST	C5.2	75	30.00	97	5.10	77	04	07	77	06	13	67	60	75	319	RCM4		X	X
19770026	CROZIER ST	C5.3	75	30.00	97	5.10	77	04	07	77	06	14	68	60	200	319	RCM4		X	X
19770026	CROZIER ST	C4.3	75	30.30	97	8.00	77	04	09	78	03	22	347	60	278	280	RCM4		X	X
19770026	CROZIER ST	C4.1	75	30.30	97	8.00	77	04	10	77	06	14	65	60	.5	202	RCM4			
19770026	CROZIER ST	C4.2	75	30.30	97	8.00	77	04	12	77	06	14	63	60	200	280	RCM4		X	X
19770026	CROZIER ST	C3.1	75	30.50	97	10.40	77	04	13	77	06	12	00	60	.5	94	RCM4			
19770026	CROZIER ST	C3.2	75	30.50	97	10.40	77	04	13	77	08	09	118	60	92	94	RCM4		X	
19770026	PULLEN ST	P3.3	75	26.50	96	5.90	77	04	20	77	08	11	113	60	54	56	RCM4		X	X
19770026	PULLEN ST	P3.1	75	26.50	96	5.90	77	04	21	77	06	15	55	60	.5	56	RCM4			
19770026	PULLEN ST	P3.2	75	26.50	96	5.90	77	04	21	77	06	15	55	60	25	56	RCM4		X	X
19770026	CROZIER ST	C4.3	75	30.30	97	8.00	78	01	01	78	03	22	81	60	278	280	RCM4		X	X
19770033	MACLEAN ST	1	77	31.60	104	24.10	77	11	28	78	07	18	NS	NS	30	259	RCM4			
19770033	MACLEAN ST	1	77	31.60	104	24.10	77	11	28	78	07	18	NS	NS	05	259	RCM4			
19770033	HAZEN ST	2	77	5.60	111	8.80	78	02	23	78	07	17	NS	NS	30	361	RCM4			
19770033	HAZEN ST	2	77	5.60	111	8.80	78	02	23	78	07	17	NS	NS	05	361	RCM4			
19770033	W. LOUGHEED IS	3	76	54.30	106	52.50	78	02	25	78	07	16	NS	NS	30	180	RCM4			
19770033	W. LOUGHEED IS	3	76	54.30	106	52.50	78	02	25	78	07	16	NS	NS	05	180	RCM4			
19770033	EDINGBURGH SEA	4	77	30.00	98	0.00	78	02	25	78	07	16	NS	NS	05	108	RCM4			
19770033	EDINGBURGH SEA	4	77	30.00	98	0.00	78	02	25	78	07	16	NS	NS	30	108	RCM4			
19770033	PR GUSTAF ADOLF	5	77	41.30	107	48.30	78	04	10	78	07	18	NS	NS	30	504	RCM4			
19770033	PR GUSTAF ADOLF	5	77	41.30	107	48.30	78	04	10	78	07	18	NS	NS	05	504	RCM4			
19780007	AUSTIN CH	82.1	75	27.30	103	5.40	78	03	15	78	04	26	00	10	05	180	RCM4		X	X
19780007	AUSTIN CH	82.2	75	27.30	103	5.40	78	03	15	78	03	26	11	10	50	180	RCM4		X	X
19780007	AUSTIN CH	92	75	11.10	101	6.70	78	03	15	78	04	26	00	10	04	155	RCM4		X	X
19780007	AUSTIN CH	95	75	7.40	102	59.60	78	03	15	78	04	19	17	10	05	147	RCM4		X	X
19780010	E. SABINE PEN	3.2	76	25.40	108	28.72	78	01	22	78	03	25	00	30	49	58	RCM4		X	X
19780010	E. SABINE PEN	3.1	76	25.40	108	28.72	78	01	23	78	04	25	93	30	49	58	RCM4		X	X
19780010	E. SABINE PEN	3.3	76	25.40	108	28.72	78	03	27	78	04	11	16	30	10	58	RCM4		X	X
19780011	EDINGBURGH SEA	5.2	77	19.01	99	55.35	78	01	23	78	06	04	123	30	03	234	RCM4		X	X
19780011	NORWEGIAN BAY	4.1	78	3.20	92	6.77	78	01	25	78	06	04	131	30	02	490	RCM4		X	X
19780012	WELLINGTON CH	3.2	75	14.92	92	52.00	78	04	03	78	07	08	96	60	100	160	RCM4		X	X
19780012	WELLINGTON CH	3.1	75	14.92	92	52.00	78	04	04	78	07	08	94	60	20	160	RCM4		X	X
19780012	WELLINGTON CH	4	75	14.33	92	37.50	78	04	06	78	07	08	92	60	12	188	RCM4		X	X
19780012	WELLINGTON CH	2.1	75	14.83	93	0.50	78	04	19	78	07	09	81	20	12	146	RCM4		X	X

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19780012	WELLINGTON CH	2.2	75	14.83	93	0.50	78	04	19	78	07	06	78	60	100	146	RCM4		X	
19780012	WELLINGTON CH	1	75	15.25	93	17.00	78	04	25	78	07	09	75	60	12	232	RCM4		X	X
19780013	HAZEN ST	1	77	3.26	110	21.16	79	01	06	79	04	29	114	30	10	225	RCM4		X	X
19780014	DESBARATS ST	2	76	42.21	105	57.25	79	01	01	79	04	06	51	30	10	150	RCM4		X	X
19790017	W. LOUGHEED IS	3	76	58.70	106	49.60	79	01	25	79	06	17	143	30	30	170	RCM4			
19790017	W. LOUGHEED IS	3	76	58.70	106	49.60	79	02	01	79	06	17	136	30	05	170	RCM4			
19790017	MACLEAN ST	1	77	35.10	103	42.10	79	02	17	79	06	20	124	60	05	263	RCM4			
19790017	PR GUSTAF ADOLF	5	77	41.30	107	48.30	79	02	25	79	06	19	114	60	05	504	RCM4			
19790017	PR GUSTAF ADOLF	5	77	41.30	107	48.30	79	02	25	79	03	03	09	60	30	504	RCM4			
19790017	MACLEAN ST	1	77	35.10	103	42.10	79	02	26	79	06	20	114	60	30	263	RCM4			
19790017	HAZEN ST	2	77	10.70	111	11.80	79	03	05	79	06	21	109	60	05	368	RCM4			
19790017	HAZEN ST	2	77	10.70	111	11.80	79	03	06	79	06	21	108	60	30	368	RCM4			
19790017	EDINGBURGH SEA	4	77	32.30	98	3.40	79	03	06	79	06	22	107	60	30	259	RCM4			
19790017	EDINGBURGH SEA	4	77	32.30	98	3.40	79	03	06	79	06	22	107	60	05	259	RCM4			
19790017 - start times are uncertain.																				
19790018	W. LOUGHEED IS	3	77	12.30	106	52.88	79	01	13	79	05	05	113	30	10	240	RCM4		X	X
19790019	DESBARATS ST	12.1	76	55.00	103	49.00	79	04	03	79	05	07	00	10	05	195	RCM4		X	X
19790019	DESBARATS ST	12.2	76	55.00	103	49.00	79	04	03	79	05	01	28	10	50	195	RCM4		X	X
19790019	DESBARATS ST	14.1	76	47.00	103	52.00	79	04	03	79	04	27	10	10	05	325	RCM4		X	X
19790019	DESBARATS ST	22.1	77	5.00	106	10.00	79	04	03	79	04	03	00	10	06	199	RCM4		X	X
19790019	DESBARATS ST	22.2	77	5.00	106	10.00	79	04	03	79	04	08	02	10	50	199	RCM4		X	X
19790019	DESBARATS ST	24.1	76	52.00	107	52.00	79	04	03	79	05	02	29	10	05	439	RCM4		X	X
19790019	DESBARATS ST	14.2	76	47.00	103	52.00	79	04	04	79	05	03	30	10	50	325	RCM4		X	X
19790019	DESBARATS ST	24.2	76	52.00	107	52.00	79	04	04	79	04	12	00	10	50	439	RCM4		X	X
19790019	MACLEAN ST	32.1	77	50.00	100	46.00	79	04	08	79	04	30	22	10	05	210	RCM4		X	X
19790019	MACLEAN ST	32.2	77	50.00	100	46.00	79	04	08	79	05	08	29	10	50	210	RCM4		X	X
19790019	MACLEAN ST	35.1	77	37.00	102	55.00	79	04	08	79	04	25	00	10	05	350	RCM4		X	X
19790019	MACLEAN ST	35.2	77	37.00	102	55.00	79	04	08	79	04	25	17	10	50	350	RCM4		X	X
19790019	MACLEAN ST	37.1	77	30.00	103	58.00	79	04	08	79	05	07	00	10	06	290	RCM4		X	X
19790019	MACLEAN ST	37.2	77	30.00	103	58.00	79	04	08	79	05	07	12	10	50	290	RCM4		X	X
19790020	W. LOUGHEED IS	1.1	77	12.40	106	53.43	80	01	16	80	05	11	117	20	10	275	RCM4		X	X
19790020	W. LOUGHEED IS	1.2	77	12.40	106	53.43	80	02	28	80	05	12	14	30	150	320	RCM4		X	X
19790020	W. LOUGHEED IS	1.3	77	12.40	106	53.43	80	03	02	80	05	13	19	30	275	320	RCM4		X	X

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19790022	EDINGBURGH SEA	2	77	37.18	100	22.40	80	01	21	80	04	11	35	20	10	236	RCM4		X	X
19790022	EDINGBURGH SEA	3.1	77	36.50	99	31.13	80	01	21	80	02	23	34	20	10	262	RCM4		X	X
19790022	EDINGBURGH SEA	3.2	77	36.50	99	31.13	80	02	23	80	04	11	00	20	10	262	RCM4		X	X
19800013	DUNDAS IS	1	76	10.00	94	55.00	80	03	08	80	04	11	33	05	12	70	RCM4		X	X
19800013	DUNDAS IS	2	76	11.00	94	57.60	80	03	08	80	04	11	33	10	12	37	RCM4		X	X
19800013	DUNDAS IS	3	76	11.90	94	59.60	80	03	08	80	04	11	33	10	12	38	RCM4		X	X
19800013	DUNDAS IS	4	76	10.80	95	33.40	80	03	08	80	04	12	33	10	12	142	RCM4		X	X
19800013	DUNDAS IS	5	76	9.40	94	53.60	80	03	21	80	04	01	18	05	12	27	RCM4		X	X
19800014	W. LOUGHEED IS	4.1	77	11.50	105	38.00	80	04	10	80	05	01	21	15	10	63	RCM4		X	X
19800014	W. LOUGHEED IS	4.2	77	11.50	105	38.00	80	04	10	80	04	13	34	15	28	63	RCM4		X	X
19800014	W. LOUGHEED IS	4.3	77	11.50	105	38.00	80	04	10	80	05	01	21	15	60	63	RCM4		X	X
19800014	W. LOUGHEED IS	5.1	76	56.90	107	41.00	80	04	10	80	05	01	21	15	10	525	RCM4		X	X
19800014	W. LOUGHEED IS	5.2	76	56.90	107	41.00	80	04	10	80	04	14	04	15	268	525	RCM4		X	X
19800014	W. LOUGHEED IS	6.1	76	50.50	108	34.00	80	04	11	80	04	26	15	15	10	72	RCM4		X	X
19800014	W. LOUGHEED IS	6.2	76	50.50	108	34.00	80	04	11	80	05	01	20	15	36	72	RCM4		X	X
19800014	W. LOUGHEED IS	6.3	76	50.50	108	34.00	80	04	11	80	05	01	20	15	66	72	RCM4		X	X
19820129A	NORWEGIAN BAY	2	77	42.00	88	40.00	82	01	11	82	05	16	122	30	10	NS	NS			
19820129A	NORWEGIAN BAY	6	77	57.00	92	12.00	82	01	11	82	05	14	121	30	10	NS	NS			
19820129B	NORWEGIAN BAY	5	77	36.00	92	43.00	82	NS	NS	82	NS	NS	NS	NS	NS	NS	RCM4			
19820129B	NORWEGIAN BAY	5	77	36.00	92	43.00	82	NS	NS	82	NS	NS	NS	NS	NS	NS	RCM4			
19820129B	NORWEGIAN BAY	5	77	36.00	92	43.00	82	NS	NS	82	NS	NS	NS	NS	NS	NS	RCM4			
19820130	MACLEAN ST	K08	78	7.68	104	33.57	82	01	20	82	05	09	109	30	10	554	RCM4			
19820130	HAZEN ST	F24	77	33.28	109	9.93	82	01	23	82	05	06	103	30	10	NS	RCM4			
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	83	05	23	NS	NS	18	NS	RCM4		X	X
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	84	04	30	NS	NS	73	NS	RCM4		X	X
19830008	AUSTIN CH	CM71	75	23.30	102	38.60	83	04	01	84	04	30	NS	NS	123	NS	RCM4		X	X
19830008	BYAM MARTIN CH	CM62	75	55.60	105	22.60	83	04	02	83	05	23	NS	NS	18	NS	RCM4		X	X
19830008	BYAM MARTIN CH	CM63	75	58.10	105	10.60	83	04	02	83	05	18	NS	NS	18	NS	RCM4		X	X
19830008	BYAM MARTIN CH	CM65	76	2.90	104	38.80	83	04	02	83	04	19	NS	NS	18	NS	RCM4		X	X
19830008	BYAM MARTIN CH	CM66	76	4.60	104	27.90	83	04	02	83	05	23	NS	NS	18	NS	RCM4		X	X
19830076	EDINGBURGH SEA	N	77	49.00	99	5.00	83	01	25	83	03	25	59	30	10	76	RCM4			
19830076	EDINGBURGH SEA	2K15	77	45.00	99	6.00	83	01	27	83	03	27	59	30	10	118	RCM4			
19830076	EDINGBURGH SEA	E	77	45.00	98	28.00	83	01	27	83	03	25	57	30	10	90	RCM4			

TABLE 2 - CURRENT-METER DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19840049A	WELLINGTON CH	WC01	75	13.30	92	31.70	84	04	07	84	06	07	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC02	75	14.10	92	33.80	84	04	07	84	04	23	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC03	75	14.10	92	35.40	84	04	08	84	06	07	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC04	75	14.10	92	40.00	84	04	08	84	06	07	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC05	75	14.40	92	44.40	84	04	08	84	06	07	NS	NS	18	NS	RCM4			
19840049A	PENNY ST	PS01	76	38.70	96	54.60	84	04	16	85	04	16	NS	60	43	NS	RCM4		X	X
19840049A	WELLINGTON CH	WC07	75	15.20	93	22.80	84	04	19	84	06	09	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC08	74	47.70	92	9.20	84	04	19	84	06	09	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC10	74	47.50	92	21.60	84	04	19	84	05	19	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC11	74	47.80	92	27.80	84	04	19	84	06	01	NS	NS	18	NS	RCM4			
19840049A	WELLINGTON CH	WC06	75	14.40	92	59.60	84	04	20	84	06	09	NS	NS	18	NS	RCM4			
19840049A	PENNY ST	PS01	76	38.70	96	54.60	84	04	23	84	09	10	NS	60	131	NS	RCM4		X	X
19840049A	PENNY ST	PS02	76	36.20	97	25.20	84	04	23	85	04	12	NS	60	49	NS	RCM4		X	X
19840049A	PENNY ST	PS02	76	36.20	97	25.20	84	04	23	85	04	18	NS	60	138	NS	RCM4		X	X
19840049A	WELLINGTON CH	WC12	74	47.70	92	48.10	84	05	01	84	06	09	NS	NS	18	NS	CM12			
19840049A	WELLINGTON CH	WC13	74	47.70	93	17.80	84	05	01	84	06	09	NS	NS	18	NS	CM12			
19840049B	BALLANTYNE ST	BP1.1	77	43.20	116	0.10	84	04	07	85	04	29	NS	NS	35	NS	RCM4		X	X
19840049B	BALLANTYNE ST	BP1.1	77	43.20	116	0.10	84	04	07	85	04	29	NS	NS	83	NS	RCM4		X	X
19840059	NORWEGIAN BAY	HE	77	0.30	90	0.90	84	01	17	84	04	19	92	30	10	NS	RCM4			
19840059	NORWEGIAN BAY	BS	77	7.00	91	24.00	84	02	23	84	04	18	54	15	01	79	RCM4			

11.3 WATER-LEVEL DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; generally as assigned by the originating agency.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length.
DT (MN)	Sampling rate in minutes. A zero value implies continuous sampling (e.g. chart recorder).
DEPTHS-INSTR/WATER	Instrument and water depth, in metres.
INSTR TYPE	AAND - Aanderaa AM12 - Applied Microsystems Ltd. 12A AMS - Applied Microsystems Ltd. BASS - Bass Engineering optical lever FSRG - Frozen Sea Research Group (IOS) FOXB - Foxboro HWK - HWK float LEGE - Lege LEOP - Leopold Stevens LEWI - Lewis Guage (IOS) MECH - shore-based gauge, temporary or permanent NS - Not specified OTT - Ott gauge, either float or potenlometric OTTB - Ottboro RICH - Richard SDAT - SeaData bottom wave and/or water level sensor STAF - Tide staff STEV - Stevens TG2A - Aanderaa TG2A TG3A - Aanderaa TG3A TG4A - Aanderaa TG4A TG12 - Aanderaa TG12A UBC - Univ. of British Columbia gauge WLR4 - Aanderaa WLR4 WLR5 - Aanderaa WLR5 750A - Applied Microsystems Ltd. 750A
ADDIT SENSOR	Parameters measured qualified by: X - measurements of this parameter were made

'NS' entries indicate unavailable or inapplicable data.

In cases where water-level data have been collected intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

TABLE 2 - WATER-LEVEL DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
18190001	BYAM MARTIN IS		75	10.00	103	34.00	19	08	28	19	08	28	01	NS	NS	NS	MECH			
18520001	BELCHER CH		77	14.00	95	8.00	52	08	28	52	08	31	04	NS	NS	NS	MECH			
18530001	PENNY ST		76	52.00	97	0.00	53	05	27	53	06	24	29	NS	NS	NS	MECH			
19490001	ISAACHSEN	1	78	47.00	103	32.00	49	08	01	51	08	31	NS	NS	NS	NS	NS			
19510007	MOULD BAY	1	76	17.00	119	28.90	51	07	01	52	08	31	NS	NS	NS	NS	NS			
19520003	SLIDRE FD		79	59.00	85	57.00	52	08	17	52	08	18	01	30	00	NS	STAF			
19540010	ISAACHSEN	1	78	47.00	103	32.00	54	07	01	54	08	31	NS	NS	NS	NS	NS			
19540010	EUREKA	2	79	59.00	85	57.00	54	07	01	58	08	31	NS	NS	NS	NS	NS			
19590004	ISAACHSEN	1	78	47.00	103	32.00	59	03	01	59	04	30	NS	NS	NS	NS	NS			
19620013	QUEENS CH	1	76	5.00	97	44.00	62	07	01	62	07	31	NS	NS	NS	NS	NS			
19630010	TANQUARY FD		81	25.00	76	55.00	63	06	27	63	07	25	14	NS	00	01	STAF			
19640008	TANQUARY FD	1	81	24.00	76	55.00	64	07	01	64	08	23	NS	00	NS	NS	FOX			
19680008	NANSEN SD	1	80	19.00	86	20.00	68	05	01	68	06	30	NS	NS	NS	NS	NS			
19680008	NANSEN SD	2	81	31.00	92	30.00	68	05	01	68	06	30	NS	NS	NS	NS	NS			
19680008	TANQUARY FD	3	81	24.00	76	55.00	68	05	01	68	08	31	NS	NS	NS	NS	NS			
19690015	GREELY FD	1	80	36.00	79	35.00	69	08	01	69	09	30	NS	00	NS	NS	OTTB			
19690016	BYAM CH	1	75	22.00	105	24.00	69	08	01	69	08	31	NS	NS	NS	NS	NS			

TABLE 2 - WATER-LEVEL DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19700017	GREELY FD	1	80	35.00	79	36.00	70	03	31	70	04	07	NS	NS	NS	00	OTTB			
19700018	GREELY FD	1	80	35.00	79	36.00	70	08	15	70	10	04	NS	NS	NS	00	OTTB			
19720023	GREELY FD	1	80	36.00	79	33.00	72	08	22	75	08	16	NS	NS	NS	10	FSRG			
19730007	NORWEGIAN BAY	1	78	20.00	90	20.00	73	04	01	73	05	31	NS	NS	NS	NS	NS			
19730007	BYAM CH	2	75	8.00	105	50.00	73	07	01	73	08	31	NS	NS	NS	NS	NS			
19730007	QUEENS CH	3	75	21.00	96	54.00	73	08	01	73	09	30	NS	NS	NS	NS	NS			
19730007	BYAM CH	1	75	1.00	106	22.00	73	08	01	73	08	31	NS	60	NS	NS	NS			
19730013	GREELY FD	2	80	35.80	79	27.50	73	06	30	73	08	22	NS	NS	NS	NS	FSRG			
19730015	D'IBERVILLE FD		80	36.00	79	33.00	73	06	01	NS	NS	NS	NS	NS	NS	NS	FSRG	X		
19740025	GREELY FD	2	80	35.80	79	27.50	74	08	18	75	06	16	NS	NS	NS	10	FSRG			
19750017	BYAM MARTIN CH	11	76	24.67	107	48.78	75	01	03	75	04	22	109	NS	NS	132	NS			
19750020	HECLA & GRIPER	1	76	21.92	110	53.08	75	11	23	76	02	29	98	NS	NS	NS	STEV			
19750021	MACLEAN ST	3	78	5.37	101	6.84	75	12	13	76	04	19	128	NS	NS	60	STEV			
19750039	D'IBERVILLE FD		80	36.00	79	33.00	75	03	25	75	08	16	NS	30	10	10	FSRG	X		
19750039	D'IBERVILLE FD		80	35.80	79	27.50	75	03	25	75	06	16	NS	30	10	10	FSRG	X		
19750040	BYAM CH	1	75	22.00	105	24.00	75	08	01	75	08	31	NS	NS	NS	NS	NS			
19760014	HECLA & GRIPER	2	76	24.90	111	11.22	76	01	28	76	04	16	76	NS	NS	NS	STEV			
19760016	PENNY ST	101	76	45.00	96	54.00	76	03	16	76	04	22	37	NS	NS	60	AAND			

TABLE 2 – WATER-LEVEL DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19760018	GREELY FD	2	80	35.80	79	27.50	76	03	13	NS	NS	NS	NS	NS	NS	NS	FSRG			
19760018	GREELY FD	1	80	36.00	79	33.00	76	03	13	NS	NS	NS	NS	NS	NS	10	FSRG			
19760019	E. SABINE PEN	1	76	29.90	107	11.90	76	12	21	77	03	02	71	NS	NS	NS	NS			
19770019	GREELY FD	1	80	36.00	79	32.00	77	03	05	77	03	24	NS	NS	NS	32	AAND			
19770022	HECLA & GRIPER		76	17.10	111	20.90	77	02	23	77	04	26	35	NS	NS	NS	NS			
19770024	HECLA & GRIPER	1	76	23.70	113	11.40	77	12	19	78	04	17	119	NS	NS	232	STEV			
19770025	HECLA & GRIPER	1	76	43.75	109	46.37	77	11	05	78	04	12	158	NS	NS	165	STEV			
19770026	CROZIER ST	101	75	30.80	97	12.80	77	03	25	77	06	15	84	NS	NS	28	WLR4			
19780013	HAZEN ST	1	77	3.26	110	21.16	78	12	03	79	05	03	151	NS	NS	225	STEV			
19780014	DESBARATS ST	2	76	42.21	105	57.25	78	12	19	79	03	20	91	NS	NS	150	STEV			
19780016	E. SABINE PEN	3	76	25.40	108	29.80	78	01	21	78	04	29	99	NS	NS	NS	NS			
19790018	W. LOUGHEED IS	3.1	77	12.30	106	52.88	79	01	09	79	05	09	121	NS	NS	240	STEV			
19790018	W. LOUGHEED IS	3.2	77	12.30	106	52.88	79	01	11	79	03	04	53	NS	NS	240	WLR5			
19790020	W. LOUGHEED IS	1	77	12.40	106	53.43	79	11	11	80	05	10	181	NS	NS	275	STEV			
19790021	PENNY ST	106	76	29.00	97	5.00	79	03	01	79	04	13	44	15	NS	06	WLR5			
19790021	HAZEN ST	101	77	29.00	110	14.00	79	03	02	79	04	23	53	15	NS	08	WLR5			
19790021	EDINGBURGH SEA	104	76	47.00	101	14.00	79	03	03	79	04	14	43	15	NS	45	WLR5			
19790021	MACLEAN ST	103	77	27.00	104	53.00	79	03	03	79	04	23	52	15	NS	15	WLR5			
19790021	WELLINGTON CH	107	75	8.00	92	12.00	79	03	04	79	04	20	47	15	NS	19	WLR5			
19790021	HAZEN ST	102	76	54.00	109	0.00	79	03	06	79	04	23	49	15	NS	NS	TG12			
19790021	BELCHER CH	105	77	2.00	96	37.00	79	03	08	79	04	20	44	15	NS	20	WLR5			

TABLE 2 - WATER-LEVEL DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19790022	EDINGBURGH SEA	2.1	77	37.18	100	22.40	79	11	28	80	04	27	143	NS	NS	236	STEV			
19790022	EDINGBURGH SEA	3.1	77	36.50	99	31.13	79	12	10	80	04	19	130	NS	NS	262	STEV			
19790022	EDINGBURGH SEA	3.2	77	36.50	99	31.13	80	04	05	80	04	19	15	NS	NS	262	STEV			
19790022	EDINGBURGH SEA	3.3	77	36.50	99	31.13	80	NS	NS	80	NS	NS	00	NS	NS	262	AAND			
19800014	W. LOUGHEED IS	4	77	11.50	105	38.00	80	04	10	80	05	01	21	NS	NS	63	WL5A			
19800015	WELLINGTON CH	101	75	39.00	94	34.00	80	03	24	80	04	26	34	NS	NS	NS	WLR5			
19810019	LANDS END	66584	76	54.00	89	25.00	81	03	04	81	04	19	46	15	10	10	WLR5	X		
19810019	AXEL HEIBERG IS	66605	78	8.00	88	53.00	81	03	04	81	04	19	45	15	10	10	TG3A	X		
19810019	AXEL HEIBERG IS	66598	78	13.00	91	50.00	81	03	04	81	04	19	45	15	27	27	TG3A	X		
19810019	BELCHER CH	66588	76	57.00	94	10.00	81	03	05	81	04	20	45	15	41	41	WLR5	X		
19810116	NORWEGIAN BAY	66595	77	42.00	88	57.00	81	01	18	81	06	12	145	30	87	87	TG3A	X		
19810117	MACLEAN ST	B80	77	49.22	104	57.30	81	01	01	81	04	01	91	NS	NS	NS	NS			
19810117	W. LOUGHEED IS	B66	77	25.00	106	23.60	81	01	15	81	04	23	98	NS	NS	NS	NS			
19810117	HAZEN ST	F24	77	33.00	109	9.00	81	12	03	82	04	21	139	NS	NS	NS	STEV			
19810117	MACLEAN ST	K08	78	7.68	104	33.57	81	12	16	82	05	01	136	NS	NS	NS	STEV			
19810117	MACLEAN ST	A26	77	15.00	106	38.00	82	NS	NS	82	NS	NS	NS	NS	NS	NS	NS			
19810117	MACLEAN ST	C42	77	21.00	106	17.00	82	NS	NS	82	NS	NS	NS	NS	NS	NS	NS			
19820131	MOULD BAY	6955	76	13.80	119	34.00	82	06	06	83	06	01	NS	60	14.2	14.2	TG3A	X	X	
19820131	AUDHILD BAY	6702	81	32.00	91	10.02	82	06	09	83	06	05	NS	60	16.5	16.5	TG3A			
19830008	BYAM MARTIN	TG90	76	5.50	104	25.50	83	04	05	83	05	NS	NS	NS	110	NS	WLR5	X		
19830076	EDINGBURGH SEA		77	44.60	99	6.00	82	11	27	83	04	09	133	NS	00	118	STEV			
19830076	EDINGBURGH SEA		77	25.10	99	35.93	83	NS	NS	83	NS	NS	NS	NS	NS	NS	NS			
19830076	W. LOUGHEED IS		77	28.60	106	21.15	83	NS	NS	83	NS	NS	NS	NS	NS	NS	NS			
19830077	MOULD BAY	6955	76	17.00	119	28.00	83	06	01	84	05	29	NS	60	14.2	14.2	TG3A	X	X	
19830077	AUDHILD BAY	6702	81	32.00	91	10.02	83	06	05	84	05	27	NS	60	16.5	16.5	TG3A	X	X	
19830077	ISACHSEN	6910	78	47.00	103	32.00	83	06	06	84	06	01	NS	60	12.8	12.8	TG3A	X	X	

TABLE 2 - WATER-LEVEL DATA

DATASET	AREA	STN	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	START YR	START MN	START DY	STOP YR	STOP MN	STOP DY	EFF_LEN (DAY)	DT (MIN)	DEPTH (M) INST	DEPTH (M) WATER	INST TYPE	P	T	C
19840049A	PENNY ST	PS01	76	39.00	96	55.00	84	04	NS	85	04	NS	NS	NS	186	186	WLR5	X		
19840049A	BYAM MARTIN CH	WEST	75	54.90	105	36.20	84	04	NS	84	06	NS	NS	NS	27	27	TG12	X		
19840049A	WELLINGTON CH	SB	75	12.60	93	29.60	84	04	NS	84	06	NS	NS	NS	14	14	TG12	X		
19840059	NORWEGIAN BAY	068	77	8.00	91	23.90	83	12	17	84	05	12	146	NS	00	79	STEV			
19840059	NORWEGIAN BAY		77	7.60	91	23.40	84	01	16	84	04	23	97	30	95	95	TG3A	X	X	
19840060	AUDHILD BAY	6702	81	32.50	91	10.00	84	05	28	85	05	21	NS	60	16.5	16.5	TG12	X	X	
19840060	MOULD BAY	6955	76	13.80	119	34.00	84	05	30	85	05	17	NS	60	14.2	14.2	TG12	X	X	
19840060	ISACHSEN	6910	78	47.00	103	30.00	84	06	01	84	07	02	NS	60	12.8	12.8	TG3A	X	X	
19840060	ISACHSEN	6910	78	47.00	103	30.00	84	06	01	85	05	21	NS	60	12.8	12.8	TG12	X	X	
19850042	MOULD BAY	6955	76	13.80	119	34.00	85	05	17	86	05	20	NS	30	14.2	14.2	TG3A	X	X	
19850042	MOULD BAY	6955	76	13.80	119	34.00	85	05	17	86	04	14	NS	30	14.2	14.2	TG12	X	X	
19850042	AUDHILD BAY	6702	81	32.50	91	10.00	85	05	20	86	05	18	NS	30	16.5	16.5	WLR5	X	X	
19850042	AUDHILD BAY	6702	81	32.50	91	10.00	85	05	20	86	05	18	NS	60	16.5	16.5	TG12	X	X	
19850042	ISACHSEN	6910	78	47.00	103	30.00	85	05	21	86	05	19	NS	30	12.8	12.8	TG12	X	X	
19850042	ISACHSEN	6910	78	47.00	103	30.00	85	05	21	86	05	19	NS	60	12.8	12.8	TG3A	X	X	
19850043	MASSEY IS	66789	76	4.00	102	17.00	85	03	15	85	04	24	40	15	13	13	WLR5	X		
19850043	ALEXANDER IS	66791	75	45.00	103	17.00	85	03	15	85	04	24	40	15	06	06	WLR5	X		
19850043	CAMERON IS	66788	76	30.00	104	35.00	85	03	15	85	04	24	40	15	23	23	WLR5	X		
19850043	CAMERON IS	66786	76	25.00	103	0.00	85	03	15	85	04	24	40	15	15	15	WLR5	X		
19850043	CAMERON IS	66787	76	19.00	104	2.00	85	03	15	85	04	24	40	15	06	06	WLR5	X		
19860016	NORWEGIAN BAY	L71	77	10.70	91	27.50	85	12	17	86	04	05	109	NS	NS	NS	NS			
19870002	NORWEGIAN BAY	6588	76	54.00	94	27.00	87	09	03	87	09	18	NS	NS	NS	NS	OTTB	X		

APPENDIX 1

COMMENTS ON METHODS AND DATA QUALITY, BY DATA-SET NUMBER

1819-0001

These water level data, probably obtained with a staff, provide only the time of high water for the single day of observation (Harris, 1911). Other observations included water temperature, depth, and current, although apparently not within the area of this data inventory.

1948-0001

Nansen bottles and reversing thermometers were used as well as BTs at one station in the vicinity of Eureka weather station. Bottles samples were collected at 0, 25, 50, 75, 100, 150, 200, 300 and 400 feet. Tables of temperature, salinity and sigma-t are included at the end of Metcalf's (1949) report, but no accuracies are provided.

The station location (79°44'N,85°25W) provided by NODC is erroneous, being located 2 nautical miles (3 km) inland from the nearest coastline. Based on the station location map of the data report, the coordinates have been corrected to 79°44'N,86°44'W.

1949-0001

After the second world war, a network of water level stations was gradually established at the sites of permanent weather stations. Very little documentation as to methods and accuracies is available. It is thought that these stations used mechanical shore-mounted float-type gauges.

The data are available from the Marine Environmental Data Services Branch (MEDS) under the identification number listed in the "Source or Reference" column of Table 1. The start and stop dates listed by MEDS invariably occur on the first day of the month and the last day of the month, leading us to suspect that the data is filed by months rather than dates. Thus, data are not necessarily available for each day of the first and last months. In addition, no indication is given of data gaps due to equipment failures which are associated with the use of mechanical water level gauges in ice-infested waters. Depths of instrument and water were often not available.

1951-0007

See comments for 1949-0001.

1952-0003

Bottle casts for temperature, salinity and dissolved oxygen were carried out. Water transparency was determined by means of a Secchi disc and bottom (Phleger) cores were made when sea and bottom conditions permitted. Vertical net tows were collected at about one station in three to an average depth of 20 m. Visual estimates of currents and short term (28 hour) tidal height measurements and reported for Sildre Fiord near the Eureka weather station.

No estimates of data precision or accuracy are available in the data report (U.S. Naval Hydrographic Office, 1954).

The position (79°01'N,85°28'W) given for station 44 is erroneous as it is located on Stor Island about 4 nautical miles (6 km) from the nearest coastline. Based on the map of station locations of the data report, the position has been changed to 79°01'N,84°55'W.

1954-0001

The temperature and salinity data collected were reported by Bailey (1955). These data were used to describe the oceanographic features of the Canadian Arctic Waterways in Bailey (1957). No accuracies are given nor are any known errors mentioned.

1954-0010

These water level data were collected near the Eureka and Isachsen weather stations. See comments for data set 1949-0001.

1957-0003

No data report is available for these data but the results are described in considerable detail by Collin (1962).

No information is available as to methods, accuracies or errors in the data.

The location of station 124 is in error. The station position is located about 4 nautical miles (7.4 km) inshore on Bathurst Island. The latitude has been altered from 76°11.0'N to 76°41.0'N to provide agreement with the station location map of Collin (1962).

1959-0004

These water level data were collected near the Isachsen weather station. See comments for data set 1949-0001.

1960-0005

Bottle casts used Knudsen type reversing bottles and Negretti and Zambra protected thermometers (one per bottle). Salinity samples were stored in glass bottles having rubber washers and were later analyzed at the Atlantic Oceanographic Group lab using a chemical titration technique (CODC, 1964). Plankton samples were forwarded to the Arctic Unit (Grainger, 1963).

1960-0007

Temperature and salinity profile data were obtained by means of bottle casts from the sea-ice. Operations took place in a heated tent to avoid freezing of the salinity and oxygen samples. A light aircraft provided transportation between oceanographic stations, located on frozen leads and the base camp at Isachsen.

Collin (1961) also mentions that four oceanographic stations were occupied in 1959 in addition to those described as part of 1960-0007. However, these data are not on file with MEDS nor was any data report or other information located.

1961-0003

The data report (CODC, 1966a) lists the following data as suspect:

Stn.	Depth	Suspect Data
4	0	Temperature
4	10	Temperature
28	49	Temperature
28	98	Temperature
38	10	Temperature
40	30	Temperature
40	98	Temperature

Barber and Huyer (1971), in the course of using these data to prepare an atlas of the waters of the Canadian Arctic Archipelago, indicated that the salinities were determined with conductivity bridge salinometers after completion of the field work.

1961-0004

No suspect or erroneous data were listed in the data report (CODC, 1966).

Barber and Huyer (1971), in the course of using these data to prepare an atlas of the waters of the Canadian Arctic Archipelago, indicated that the salinities were determined with conductivity bridge salinometers after completion of the field work.

1961-0005

No report of any kind could be found, however the data are available from MEDS.

1961-0009

Oceanographic observations were collected from the ice. Serial observations were collected at 0, 5, 10, 20, 30, 50, 75, 100, 125, 150, 175, 200, 250, 300 and 450 m using Fjarlie sampling bottles. One protected reversing thermometer was used in each bottle with an unprotected thermometer used on the two deepest bottles at each cast.

Current meter observations were obtained at 30.5 m (100 feet) over a 24-hour period using an electromagnetic induction current meter designed and built by the Pacific Naval Laboratory.

1962-0005

The main purpose of the study was to carry out a biological collecting program. Temperature and salinity measurements were made from a small, outboard-powered boat, using a single bottle. The oceanographic stations were located near shore in relatively shallow water depths ranging from 29 to 63 m. No information is given in the data report as to methods, accuracies or suspect and erroneous data.

1962-0006

Barber and Huyer (1971) identified the following data as suspect:

Stn.	Depth	Change	Reason
33	350	Delete S	Strong density inversion
37	500	Delete S, T	Strong density inversion
37	600	Delete S, T	
39	200	Delete S, T	Slight inversion where strong gradient expected
41	10	Change S to 29.424	A number of density inversions
41	20	Change S to 31.020	
41	30		
41	50	Change S to 31.170	

1962-0013

These data obtained at a temporary water level station in Queens Channel are available from MEDS under the identification number listed in the "Source or Reference" column of Table 1. As discussed for data set 1949-0001, the type of instrument, accuracies and any occurrences of erroneous data are not known.

At this time a number of different types of water level gauges were in use by the Canadian Hydrographic Service including the Ott float gauge, the Ott potentiometric gauge, the Leopold-Stevens A71 water level recorder and the Ottboro gauge (Stephenson, 1977). In particular, the Ottboro gauge (Canadian Hydrographic Service, 1964) was designed for use at temporary water level stations while the other instruments were more likely to be used at permanent stations.

1963-0010

Beginning in 1963, the Defence Research Board of Canada established a field station at the head of Tanquary Fiord, located on the west side of Ellesmere Island. This station served as a base camp for scientists of many disciplines including glaciology, zoology, botany, meteorology, ice physics and geology. Physical oceanographic data continued to be collected until at least 1967. (Some physical oceanographic data may have been collected in years subsequent to 1967, but no written description has yet been located.)

The methods and instrumentation used in the 1963 oceanographic field program are discussed in Hattersley-Smith (1964) while further useful comments concerning methods are presented in Hattersley-Smith and Serson (1966) and CODC (1969).

The spring oceanographic stations were reached by use of motor toboggan and a dog team. Serial temperature and salinity data were obtained with Knudsen bottles using a single reversing thermometer. Salinity samples once drawn, were apparently allowed to freeze prior to shipment south for laboratory analysis. While the method of salinity determination is not specified, it was very likely the conductive salinometer widely in use by this time.

Once ice breakup had begun, a 22 foot freight canoe served as the data collection platform. The instruments used for the summer oceanographic program were identical to those of the spring program.

Station locations were determined by theodolite bearings to shore features. Typical position accuracies are given as 700 m or better (CODC, 1969).

Bottle station temperature and salinity data were also collected from the density-stratified Lake Tuborg located northeast of the head of Antoinette Bay. Reversing thermometers were not available for this station, so the only temperature data available is that obtained with a bathythermograph.

Limited water level observations were made near the base camp at the head of Tanquary Fiord over intermittent 1 to 3 day periods in late June and the month of July. Data were obtained by measuring water level against a staff embedded in a drum filled with gravel situated in about 1 m of water.

1964-0004

No report of any kind was located concerning the oceanographic data obtained from the CCGS Sir John A. MacDonald in 1964. The bottle cast temperature and salinity data are available from MEDS.

1964-0005

Oceanographic observations were obtained from an ice camp established primarily for studies of under ice acoustic measurements. Transportation was provided by tractor vehicles starting from the Isachsen weather station. The data were collected in a heated shelter located over the ice hole using Fjarlie seawater sampling bottles equipped with Richter and Weise reversing thermometers. Salinity samples were stored in 8 oz citrate bottles "... which were protected from freezing too fast." The samples were analyzed on a conductivity salinometer in Nanaimo, B.C.

1964-0008

1964 marked the second year of operations from the field station at the head of Tanquary Fiord operated by the Defence Research Board of Canada (see 1963-0010).

The data collection methods and procedures were nearly the same as those of the previous year as described in Hattersley-Smith (1967), Hattersley-Smith and Serson (1966) and CODC (1969).

Water level measurements in 1964 were obtained with a Foxborough underwater tide-gauge, on loan from the Canadian Hydrographic Service. The gauge operated continuously from July 8 to August 23 with the exception of a four day gap from July 20-24.

1965-0005

1965 was the third year of operations from the Tanquary Fiord base camp operated by the Defence Research Board of Canada. Oceanographic data collection methods and instrumentation appear to be the same as those used in 1963 (1963-0010) and 1964 (1964-0008) as indicated by the data report (CODC, 1969).

No water level measurements were catalogued for 1965 by MEDS. It is not known which, if any, of the concurrent measurement programs of 1964 continued in 1965.

1966-0010

1966 was the fourth year of operations from the Tanquary Fiord base camp operated by the Defence Research Board of Canada. Oceanographic data collection methods and instrumentation appear to be the same as those used in 1963 (1963-0010) and 1964 (1964-0008) as indicated by the data report (CODC, 1969).

Apparently no water level measurements were obtained in 1966, as indicated by the absence of any such record in the MEDS catalogue. It is not known which, if any, of the concurrent measurement programs of 1963-1964 continued into 1966.

1967-0002

At each oceanographic station on this 1967 CCGS Labrador cruise, a single reversing bottle station cast was carried out. A bathythermograph profile was also obtained at most stations. Samples for salinity determination were drawn into flat 8 oz. glass medicine bottles, stored on board and subsequently analyzed at the Atlantic Oceanographic Laboratory, Dartmouth, N.S., using a salinometer of the type described by Brown and Hamon (1961).

Sediment cores were obtained at about one station in three using a large gravity corer. The cores were forwarded to Dr. B.R. Pelletier of Atlantic Oceanographic Laboratory.

At a few stations, water samples were collected for deuterium analysis at the Woods Hole Oceanographic Institution. The results for these samples are reported in Redfield and Friedman (1969).

An instrument capable of measuring temperature and salinity in situ was used at one location (station 20), among those occupied in the Queen Elizabeth Islands. Comparisons with concurrent bottle cast measurements at eight stations over the duration of the cruise revealed differences of $-0.04 \pm 0.14C°$ (mean and standard deviation) and $0.13 \pm 0.11^{o}/oo$ for temperature and salinity, respectively (CODC, 1968).

Short period (8 to 18 hours) time series measurements of the current speed and direction, water temperature and salinity were obtained at 1 m depth during this cruise (Herlinveaux, 1974). A Hydroproduct current meter was used for this purpose. In addition, information on near-surface currents was inferred from ship and iceberg drift observations.

1967-0005

1967 was the fifth year of operations in Tanquary Fiord.

1968-0001

Reversing water bottles and thermometers were used (Herlinveaux, 1970). Each cast was followed by a BT. Salinity was determined with a conductivity salinometer. The data are presented as listings.

Dissolved oxygen was also measured and biological samples were collected using the submersible Pisces.

1968-0008

See 1962-0013.

1968-0015

The Tanquary and Hazen camps were continued in 1968. The MEDS file contains temperature-salintly data from one station only, at the mouth of Nansen Sound. Other data were collected at the junction of Eureka Sound and Greely Fjord, and in Tanquary Fjord, but these are not archived with MEDS. Current profiles were made daily.

1969-0014

1969 marked the first of an eight-year period of data collection by the Frozen Sea Research Group of the Institute of Ocean Sciences in d'Iberville Fiord, an appendage to the Nansen Sound-Greely Fiord system.

In the early spring period of 1969, CTD data were collected at three sites using a Guildline CTD, although date and time information could not be located for these profiles. The measurement depth intervals were 1 m. These data should be used with care, as the calibration values for the CTD instrument may be in question.

Other measurements collected at this time were temperature time series data using a chain of thermistors at depths from near the ice bottom to 46 m "... at locations fairly close to shore." (Lake and Walker, 1973). Sampling intervals varied from 10 seconds to 1 hour over periods of a few days to a week of each field trip.

1969-0015

Data collection resumed at d'Iberville Fiord (see 1969-0014) in the summer of 1969. During this period, bottle samples were used to provide salinity data for shallow depths close to shore. A chain of thermistors suspended from a buoy provided time series temperature data. In 1969, currents (down to 2 m depth) were estimated using dye plumes.

During this period, a diaphragm-operated Ottboro recorder provided water level measurements at a location just off the beach adjacent to the base camp (Lake and Walker, 1973).

1969-0016

See 1962-0013.

1970-0017

A Guildline CTD provided profiles of salinity and temperature, at depth intervals of 0.25 m. In addition, thermistor chains measured time series temperature data to depths of 15 m (as described in 1969-0014) and water level measurements were obtained with a diaphragm-operated Ottboro recorder at a beach location near the base camp.

1970-0018

As for 1969-0015.

1970-0019

Serson (1974) presents temperature and sigma-t profiles from 1970. No information is given about the data collection personnel or methods.

1971-0015

A Guildline CTD provided salinity and temperature profile data, at depth intervals of 0.25 m. In addition, under-ice current measurements were made by means of photographic records of dye plume releases to depths of 2 m beneath the sea ice (see Lake and Lewis, 1973). The sites of these dye tracer measurements were:

Station	Latitude	Longitude
1-71	80°34.75'N	79°29.0'W
2-71	80°34.0'N	78°05.0'W

while the time and dates could not be located. Velocities ranged from 0 to 3-5 cm/s.

1972-0023

Data collected in 1971 appears to have been limited to time series water level data at 10 m depth commencing on August 22, and thermistor chain data from August 20-September 11, at depths to 12.5 m.

The water level data were collected with a newly designed instrument which utilized an Aanderaa data logger and a Gulton differential pressure transducer which permits correction for atmospheric pressure fluctuations (Lewis, 1973).

1972-0024

Serson (1974) presents a salinity profile from Rens Fiord taken on May 7, 1972. No other details are provided.

1973-0006

Water mass: A Guildline CTD (accurate to ± 0.02C° and ± 0.04°/oo as stated by manufacturer) was used, and checks were made with bottle casts and reversing thermometers. Twenty-four casts were made at station 1 over a three-day period; then one cast at each of stations 2 through 6. Listings and plots are included in the report (Herlinveaux et al., 1978).

Currents: An Aanderaa RCM-4 current meter was moored at a depth of 153 m (2 m above bottom). Direction orientation was provided by a magnet on the frame the meter was attached to. Timing mechanism failure reduced the useable record length to about 6 days. Twenty-seven current profiles (instrument type not specified) were made at station 1 between April 15-19. A torsionally-rigid hose maintained direction orientation.

1973-007

See 1962-0013.

1973-0008

This represents the second phase (the first being 1973-006) of an oceanographic survey of Barrow Strait and Wellington Channel. A Guildline 8101 Arctic probe CTD unit and a Hydro Products Savonius rotor current meter were used. Repeated CTD casts were made while the ship was at anchor (Herlinveaux et al., in preparation).

1973-0012

Serson (1974) shows a progressive vector plot of a May 14-17, 1973 current meter record from 2.32 m beneath the ice base in Sverdrup Channel. An ice salinity plot is also shown from May 15 data. There is no mention of the type of meter used or reference to a data report.

1973-0013

CTD measurements were collected with Guildline Model 8101A CTD units. To monitor the accuracy of the CTD measurements water samples were collected from oceanographic bottles. Precision thermistors used to check water temperatures were calibrated in a triple point cell. The data were recorded on a Vidar 5400 data logger with printed and punched paper tape output, at a depth resolution of 1 m. The estimated accuracy of temperature and computed salinity vary according to the magnitude of the vertical gradients. Each record in the data report is annotated according to estimated accuracy. A detailed discussion of the methods used in collecting the CTD data is presented by Lewis and Sudar (1972).

1973-0015

Water level data were collected at two sites in 10 m of water using the bottom pressure gauge (see 1972-0023). Field notes indicate that one of the records operated at 80°36'N, 79°33'W had suspect data from June 28-July 4.

A thermistor chain was operated at 80°35.5'N, 79°32.0'W from June 30, 1973 to June 19, 1974. The sensors were at depths of 0.5, 0.7, 1.1, 1.3, 1.5, 1.7, 1.9, 2.1, 2.3 and 2.5 m; the sampling rate is not known.

1974-0018

Current-meter measurements and water properties were measured at seven locations in and near Danish Strait in 1974, near the Jackson Bay G-16 well site. Supporting information is sparse. A current meter, possibly a Cushing

electromagnetic, was used to measure currents at depths between 0 and 2 m beneath the ice. Record lengths were short, less than 2 days. The quality of the data cannot be determined at this time.

General comments regarding data collected for and by Panarctic 1974-1986:

Currents:
- generally used Aanderaa RCM-4's and speeds were often below stall speed for much of the record length.
- some records have been found to be in error by 180° due to surface alignment error. It is not certain which records are wrong.
- the reports rarely discussed directional accuracy.
- the RCM-4 current meters apparently had conductivity and temperature sensors, however these data were never mentioned in reports.

Water properties:
- quality of early data poor; used RCM-4's to profile, no bottles or reversing thermometers to check on calibration.
- recording of times of observations not always accurate
- starting in 1977, a Guildline CTD came into use.
- starting in 1979, bottles and reversing thermometers were used for in situ calibration purposes, although it was often unclear how corrections were made.

Water levels:
- generally used Steven analog recorders, fixed on ice with pulley line and weight on bottom.
- errors due to sinking of weight, possible lateral movement of ice, and poor accuracy of time and height recordings.
- data reports often anavailable.

1974-0025

CTD data were collected during two periods at d'Iberville Fiord in 1974: March 30-April 10 and August 23-25. The methods are summarized in 1973-0013.

In 1974, water level measurements were obtained at two locations in 10 m water depth using a bottom pressure gauge as described in 1972-0023. In addition, records of thermistor data were located from August 19, 1974 to June 19, 1975. Documentation as to location and sampling rate was not found. Hourly time series current meter measurements were obtained at three locations across the fiord. The data were collected with Aanderaa recording current meters modified for Arctic use in order to provide a directional reference. The instruments were located over the sill within 1 m of the sea ice and 1 m above the bottom on the sill. While the current meters were not recovered the data were relayed by VHF telemetry to a recorder at the base camp. Many instances of suspect or incorrect data values were evident in the recorded data.

1974-0118

A YSI 33 meter was used to obtain data at 1 m, 3 m, and bottom. No estimates of data accuracy were provided in the report.

1974-0121

Documentation (Dobrocky, 1975) was not available, accounting for the '2' rating.

1974-0134

Existing documentation, available from the Institute of Ocean Sciences, is not adequate. No methods are given or instrumentation used. There are suspect values in the salinity data and no corresponding temperature data. The current data is summarized as to speed (maximum speeds, exceedence diagrams), but lacks directional information.

1975-0016

Five Aanderaa RCM-4 current meters were deployed near surface at five locations near northwestern Melville Island. The meteorological convention, using direction <u>from</u>, was used. The depths of the meters are not given but were planned to be within 2 m of the bottom of the ice. Currents were weak and many recordings were below the 2.2 cm/s threshold value of the meters, particularly at sites 1, 2 and 4. At locations 1 and 2 constant directions were recorded, probably due to jammed vanes. Apparently these values were also used to produce current roses and progressive vector diagrams (Beak, 1976a). There also may be timing errors at stations 1, 2 and 5 since record length and number of records do not agree. The method of referencing north is not specified. In later programs the meters were rigidly connected to surface, but human error often introduced a 180° error in direction.

An Interocean 513 CTD was used to obtain in situ measurements of water properties to 10 m depth at all five locations; for depths greater than 10 m at site 1 an Aanderaa RCM-4 was used. Dates were not provided for the shallow profiles. Salinity values were abnormally high. Also see general comments for 1974-0018.

1975-0017

Aanderaa RCM-4 current meters were used to measure currents at two sites. Currents were measured at various depths from surface to 366 m, and for periods of time ranging from 1 to 14 days. No discussion of mooring design or accuracy of current direction measurements is given (Beak, 1976b).

Profiles of temperature and conductivity were also made, apparently using an Aanderaa RCM-4 as well, although this was not stated. Time series of temperature and conductivity were also recorded while the RCM-4 was moored at the various depths.

Water levels were also measured during January-April 1975 at the Drake 1-55 well site, 15 km offshore, at the same latitude as Warren Point. The instrument used was not specified in Beak (1976b). Also see general comments for 1974-0018.

1975-0018

An Aanderaa RCM-4 current meter was moored near-surface at each of three locations. Record lengths are roughly 5 months long. At the Hazen Strait location little if any useful data was obtained; the current meter casing was flooded upon recovery. The record from the Desbarats Strait site has many records below the stall speed. The MacLean Strait data are worse with no currents about 70% of the time and large segments of record with unvarying direction.

An Interocean 513 CTD was used to measure conductivity, temperature and pressure in situ at the same three locations. The data are considered suspect and no documentation was available. Also see general comments for 1974-0018.

1975-0019

A Cushing 600 electromagnetic current meter was used to obtain six separate 24-hour measurements at one site. The three records of March 23, 19 and April 3 appear reasonable. The other three are suspect or only had one channel working.

In situ temperature and conductivity were measured using a Beckman RS5-3 and a Y.S.I. instrument. Details of methods and accuracies are unknown. Also see general comments for 1974-0018.

1975-0020

One Aanderaa RCM-4 was moored at 10 m depth in Hecla and Griper Bay off northern Melville Island, from December 6, 1975 to February 27, 1976. There is no discussion of direction due to the proximity of the magnetic north pole (Beak, 1976d). Current speeds in February were generally below threshold values.

An RCM-4 was also used for profiles of conductivity, pressure and temperature on December 6, 1975 and February 11, 1976. The February profile of salinity appears to be too low, and both profiles show warmer water at surface which is unexpected.

Measurements of high and low tide were also made but only to ± 1 hour accuracy. Also see general comments for 1974-0018.

1975-0021

Currents were measured at one location using both an Aanderaa RCM-4 and a Cushing electromagnetic current meter. The two differed by about 30° in direction and the Cushing speeds were considered unreliable, being much larger than the Aanderaa's.

An Aanderaa RCM-4 was used to obtain in situ profiles of temperature and conductivity. The conductivity data are suspect since they indicate a freshening of the entire water column by 2 ^{o}/oo between February and April. the moored current meter record of conductivity suggests the February conductivity profile to be in error.

A Stephen water level recorder was used but times were recorded with an accuracy of only ± 1 hour. Also see general comments for 1974-0018.

1975-0022

Existing documentation is poor and it is difficult to determine exactly what data was collected. Currents were measured at two sites - Prince Gustaf Adolf Sea, and Hazen Strait - using a Cushing electromagnetic current meter. At the first site it appears that one instrument was used, and only measured one component of the current (e.g. NS but not EW, and vice versa). At the Hazen Strait site, measurements of both components were obtained for the period April 9-May 25. In most cases, the sample interval was not constant, and the instrument depth was not recorded.

An Aanderaa RCM-4 was used to profile temperature and conductivity at three sites. The longitude recorded for the MacLean Strait site was wrong. It is not known if bottles were used to check the calibration. Also see general comments for 1974-0018.

1975-0023

Measurements of conductivity and temperature were made at Jackson Bay sites using a Beckman RS5-3, a Y.S.I. probie and reversing thermometers. The temperature measurements of the Beckman RS5-3 were unreasonable, making the computed salinities unreliable. Also see general comments for 1974-0018.

1975-0039

CTD data were collected at d'Iberville Fiord from March 28, 1974 to April 12, 1974 using the methods described in 1973-0013.

Water level measurements sampled at 30 minute intervals were obtained at two locations in 10 m water depths using a bottom pressure gauge described under 1972-0023. At one of these sites (80°36'N, 79°33'W) short records of rapid sampling, at one sample every 17.5 seconds, were carried out over the period:

0900 April 6 - 0859 April 8
1675 April 18 - 1559 April 19

Time series current meter measurements were obtained at four locations, with samples recorded every 10 minutes, using an Aanderaa RCM-4 current meter. These instruments, mounted 1 m above the bottom, were modified to provide an internal directional reference in this area of weak horizontal magnetic fields.

In addition, current profile data were obtained using an ultrasonic current meter produced by the Christian Michelsen Institute in Bergen, Norway. The continuously recording unit provides an accuracy approaching ± 0.25 cm/s. Current direction was obtained by indirect use of a gyro, with an estimated accuracy of ± 10 degrees (Lake and Walker, 1976).

1975-0040

See comments for 1962-0013.

1975-0138

In addition to their work in Nansen Sound and d'Iberville Fjord (1975-0039), the Frozen Sea Research Group of IOS collected temperature-conductivity data in Greely Fiord. The data are held at IOS (R.A. Lake).

1976-0014

Subsurface currents were measured at one site in Hecla and Griper Bay using an Aanderaa RCM-4 current meter, between January 15 and April 17, 1976. The record for January 15-February 7 appears to be reasonably good. February 7-12 has suspect (constant) directions and speeds. The February 12-16 record appears okay. From February 16 to April 8 the direction vane was apparently fouled due to sediment buildup. Speeds were below stall speed after February 20. From April 8-17 nearly all speeds were below stall speed, and constant directions occurred during the April 11-15 interval.

Three profiles of temperature and conductivity were made on January 15, February 10 and April 4, using an Aanderaa RCM-4. The January 15 data are suspect as they show higher salinities than felt reasonable. Also see general comments for 1974-0018.

1976-0015

Aanderaa RCM-4 current meters were deployed at three sites. The IVL (1976) report was unavailable but apparently the direction channel is unreliable for all three records. Also see general comments for 1974-0018.

1976-0016

Profiles of conductivity and temperature were obtained using an Aanderaa RCM-4. The RCM-4 was modified with subsequent accuracies quoted (Peck, 1977) as ± 0.1 mmho/cm (conductivity), ± 0.05° (temperature) and ± 1.5 m depth. Equivalent accuracy of salinity is about ± 0.15°/oo. No mention of bottles or reversing thermometers was made.

Four electromagnetic current meters, two Marsh-McBirney 501 and two Endeco 720, were used. One of the Marsh-McBirney records was found to be unreliable and was not presented by Peck (1977). The meters were referenced (as to direction) and suspended from the ice surface. They were suspended 2.4 m below the ice surface.

The report also presents a harmonic analysis of the tide record from Pelham Bay.

1976-0017

Currents were measured using modified Aanderaa RCM-4's. Smaller in-line directional vanes were used to enable the meters to fit through holes in the ice. The close proximity of the north magnetic pole precluded the use of magnetic compasses. Presumably the meters were oriented with respect to the surface; directional accuracy was stated to be ± 5-7° (Greisman and Lake, 1978).

The current meters were deployed at three distinct levels: (1) immediately beneath the ice (speed sensor 15 to 20 cm below the ice bottom with direction vane 15 cm deeper); (2) mid-depth, varying according to location and water depth (at some locations, an instrument was not deployed at mid-depth); and (3) near-bottom current meters which were mounted on an aluminum frame (speed sensor 2 m above the sea floor with the direction vane 60 cm below the speed sensor).

The data from the under-ice and near-bottom current meters were transmitted hourly to shore stations via a UHF radio system where the data were recorded on a model 610 Sea Data cassette recorder. In all cases the data were internally recorded as well. However, some of these instruments were not recovered with the result that the lower quality shore station recordings provided the only available information. These records are summarized below:

Station	Percent of Data Recovery
B2.2	80
B3.1	60
B5.2	30
A1.2	60
A3.2	98
A4.2	100
A5.2	67

The erroneous or missing data values were replaced with interpolated values. For the near-bottom current meter at station A2 in Austin Channel, the instrument though recovered on March 14, 1977 had toppled over on August 21, 1976. After August 21, the only useable recorded data were the temperature values.

A detailed analysis of these current meter data are given in Greisman and Lake (1978).

1976-0018

CTD data were collected in d'Iberville Fiord, Greely Fiord and Eureka Sound from March 8-31, 1976 following the methods described under 1973-0013.

Water level measurements were obtained at two locations in 10 m water depth. The data were collected with a bottom pressure gauge as described under 1972-0023.

1976-0019

See general comments for tide gauges under 1974-0018.

1977-0019

CTD data were collected in d'Iberville Fiord from March 4-27, 1977 following the methods described under 1973-0013. Water level data were collected in 32 m water depth at a single location. The data were obtained with an Aanderaa bottom pressure gauge, sampling once very 30 minutes.

1977-0022

Two Aanderaa RCM-4 current meter records are available for one site in Hecla and Griper Bay, March 24-April 16 and April 17-May 1. The meter was hung 10 m below the ice surface. Three days are missing from the first record, probably at the beginning, and speeds were below stall speed approximately 45% of the time.

Three profiles of conductivity and temperature were also made. The first profile, on March 23, is suspect, as the instrument did not record properly. Bottle samples were collected to check the data from all profiles. Also see general comments under 1974-0018.

1977-0023

Currents were measured at two sites in MacLean and Hazen Straits using Aanderaa RCM-4's. At the MacLean and Hazen Strait sites, currents were below the stall speed about 64% and 22% of the time respectively. The Aanderaa RCM-4's were also used to obtain conductivity and temperature profiles, however the quality of the data is unknown. Also see general comments under 1974-0018.

1977-0024

Currents were recorded using an Aanderaa RCM-4 current meter. The record is missing 21 samples (10.5 hours). Currents were below the stall speed for 28% of the time, for periods lasting up to several days.

A Guildline model 8705 CTD was used to measure profiles of conductivity and temperature. The data was reviewed by a government oceanographer and deemed to be of good quality.

Water elevations were monitored using a Stephen model 2A-35 duplex recorder. The report (Panarctic, 1978a) states poor resolution in both magnitude and time, possibly to ± hour only. Also see general comments under 1974-0018.

1977-0025

Subsurface currents, 10 m below the ice, were measured using an Aanderaa RCM-4. The record (January 11-April 9) contains 12 extra records, representing an error of 6 hours.

A Guildline 8705 CTD was used and the salinity/temperature data appears reasonable.

Water level data were stated (Panarctic, 1978b) to be of poor resolution in both magnitude and time. Also see general comments under 1974-0018.

1977-0026

The current meter instrumentation is identical to that described for 1976-0017. However, no real-time UHF transmission system was used in this experiment.

A detailed oceanographic analysis of the current meter data is presented in Greisman and Lake (1978).

1977-0033

Current meter data were collected as part of the development of a system to acquire real-time measurement of meteorological, oceanographic and sea-ice parameters in the Canadian Arctic using stations mounted on the ice. The system, developed by Innovative Ventures Ltd. of Calgary on behalf of Petro-Canada was given the acronym SALDAS, for Self-contained Arctic Long-Term Data Acquisition System. Current meter measurements were collected with Aanderaa RCM-4 current meters. These instruments were modified by using small directional vanes, directionally referenced to the surface through the use of torsionally-rigid mooring lines.

For these data, some important documentation information could not be located. A total of 11 raw Aanderaa current meter data tapes exist, as identified by the instrument serial number. Of these, two tapes were unreadable while the remainder produced acceptable translations. However, information identifying the instruments used at each site has not been found to date.

Written documentation describes the start and stop times for five locations; of these positions, four of the sites are given in separate documentation. At the fifth station, located in Prince Gustaf Adolf Sea where no position was noted, the location of the 1979 SALDAS site (1979-0017) was used. In addition, no indication could be found as to the sampling rate used. While it is known that current meters were operated on two levels at each site, the depth of the deepest meter is given as 30 m and 100 m in different portions of the available documentation. An examination of the raw data (Fissel, 1982) reveals that in 7 of 9 useable time series records, the directional data appears to remain unrealistically constant over long periods of time. In addition, four of the data sets have periods where the speeds abruptly drop to zero readings over many samples.

1977-0119

The documentation (B.C. Research, 1978) was not available to properly evaluate these data.

1978-0007

Water mass measurements: A Guildline Mark IV CTD was used. The data are presented as listings and profile plots (Prinsenberg, Vol. 1, 1978).

Current measurements: Fourteen Aanderaa RCM-4's were also deployed through the ice. Directional orientation was provided through rigid coupling to surface (Prinsenberg, Vol. 2, 1978).

1978-0010

Three sets of current measurements were made east of Sabine Peninsula using Aanderaa RCM-4's. The three data sets cover January 23-April 25, January 22-March 25, and March 27-April 11. The first record is missing 6 days and 10 hours of data, and 45% of the speeds are below stall speed. The second set apparently has no reliable direction data, and 91% of the speeds were less than the stall speed in the third record. No details are available regarding the water level record. Also see general comments under 1974-0018.

No data report could be located regarding these data. The above information was taken from Van Ieperen (1981) and a computer archival tape prepared by Panarctic Oils Ltd.

1978-0011

At two sites, off northeast Cornwall Island and Edinburgh Sea, two Aanderaa RCM-4 current meters were suspended at 2 and 3 m beneath the ice. At the northeast Cornwall location apparently only the upper meter worked and it provided no directions after mid-March. At the Edinburgh Sea location only the lower meter functioned and some uncertainty exists concerning the time period of recorded data. Also from May 26 until the end of record (June 4) the current data are wrong. There is also confusion regarding the instrument orientation, with a possible 112° error in the plots of the Panarctic (1979d) report. Also see comments under 1974-0018.

1978-0012

The instrumentation methods are similar to those described for 1976-0017. However, no real-time UHF transmission system was used and the current meters nearest the surface were located at 12 m depth.

1978-0013

An Aanderaa RCM-4 was moored 10 m below the ice cover. Thirty-four percent of the readings were below stall speed and the record length and number of records disagree by 36 hours.

Profiles of conductivity and temperature were obtained using a Guildline 8705 CTD. Apparently no bottle casts or reversing thermometers were used to check the readings. The water level data are not of good quality, probably due to inaccuracy of timing. Also see general comments under 1974-0018.

78-0014

An Aanderaa RCM-4 was moored 10 m below the ice during the January 1-April 6 period, although there is no data after February 20. The January 1-February 20 record has many spikes but the data appear reasonable.

Guildline 8705 CTD profiles were made during December 30, 1978-January 2, 1979 and April 3-5, 1979. Apparently no bottle samples or reversing thermometers were used to check instrument performance.

The times of Stephen model 2A-35 tide gauge data were recorded to ± 30 minutes. Also see general comments under 1974-0018.

1978-0016

The existence of these data are referenced in Van Ieperen (1981) but no data report could be located describing methods, techniques or the data itself.

1979-0017

Current meter data were collected as part of the development of a system to acquire real-time measurement of meteorological, oceanographic and sea-ice parameters in the Canadian Arctic using stations mounted on the ice (see also 1977-0033). The system, developed by Innovative Ventures Ltd. of Calgary on behalf of Petro-Canada was given the acronym SALDAS, for Self-contained Arctic Long-Term Data Acquisition System. Current meter measurements were collected with Aanderaa RCM-4 current meters. These instruments were modified by using small directional vanes, directionally referenced to the surface through the use of torsionally-rigid mooring lines.

The timing of the current meter data sets is uncertain. Timing checks could not be carried out since only the time of the last record and total number of samples were known, and start times had to be computed from these two values and an assumed hourly sampling rate. (For one location (station 3), the significantly longer number of measurements led to a start time in the pevious summer of 1978 which seemed highly unlikely in view of the ice conditions at this time of year; therefore, the sampling intervals for the two data sets at this location were assumed to be 30 minutes rather than 60 minutes.) At three of the other sites (1, 2 and 3) a significant difference in the number of records obtained from the upper and lower current meters (7.7, 0.9 and 5.2% respectively) also suggest possible timing problems.

Two recurring suspect patterns were noted (Fissel, 1982) in some data sets:
1) speed dropouts occurring over suspiciously long periods:

Station 2 - 30 m depth - 59 days
Station 4 - 30 m depth - 71 days
Station 5 - 30 m depth - 8 days
Station 3 - 5 m depth - >75 days
Station 3 - 30 m depth - >75 days

2) direction data which appeared to remain constant ("or locked") over long periods. This problem was most evident at station 1 at 5 m depth and station 3 at 30 m depth.

1979-0018

One Aanderaa RCM-4 current meter measured current speed and direction 10 m below the ice surface during the period January 13-May 5, 1979. There was about 8 hours difference between the record and the surface printout times. Temperature and salinity (from the current meter) were not discussed in the documentation (Panarctic, 1979c).

Profiles of temperature and salinity were measured using a Guildline 8705 CTD. Apparently no bottles or reversing thermometers were used to check calibration.

The water level data, using a Stephen model 2A-35, was subject to error from the sinking of the weight into the mud and possible lateral movements of the ice. The quality of data from the Aanderaa WLR-5D is unknown. Also see general comments under 1974-0018.

1979-0019

Fourteen current meters (modified Aanderaa RCM-4's) were moored from the ice surface. They were rigidly connected to surface and aligned using the aircraft's gyro-compass. "A follower compass solenoid inside the current meter case then gave the vane orientation with respect to the case." Three meters gave short or no records, possibly due to exposure to -40°C temperatures for a week before the scientists arrived.

A Guildline Mark IV CTD was used to obtain profiles of temperature and conductivity. Accuracies were stated to be ± 0.01°/oo and ± 0.01°C. (Peck, 1980a,b).

1979-0020

Four Aanderaa RCM-4 current meter records were obtained near the Whitefish H-63A well site (W. Lougheed Island), at depths of 10, 150 and 275 m (2 meters). The direction sensors failed after 2-3 weeks on the deep current meters. Current speeds were below stall speed about 50% of the time. The 150 and 275 moorings used two point suspension aligned with true north from surface. There is no mention of weights being added to the moorings to improve stability.

A Guildline 8705 CTD was used, along with Nansen bottles and reversing thermometers. The report (Panarctic, 1980a) says agreement between CTD and bottles was excellent, however they differed by up to 0.3°/oo. No discussion is given of how corrections, if any, were made. Also the CTD depth scales presented in the report are in error; they should be multiplied by 0.7.

A Steven 2A-35 water level gauge was used; recordings to ± 30 minutes and ± 5 cm.

1979-0021

These water level data were collected by the Canadian Hydrographic Service, Burlington, Ontario using bottom pressure gauges of either Aanderaa Instruments or Applied Microsystems type. Sampling rates are unknown and instrument depths are likely within 1 or 2 m of the bottom.

Positions for all deployments were determined by dead reckoning from prominent shore features (D. St. Jacques, 1981, personal communication).

1979-0022

Aanderaa RCM-4 current meter records were obtained at two sites in the Edinburgh Sea, 10 m below the ice surface, for the period January 21-April 11, 1980. The direction vanes apparently became "sticky" and may be unreliable after February 2.

A Guildline 8705 CTD was used, supported by Nansen bottles and reversing thermometers. Differences between the bottle and CTD salinities, for two of the winter profiles, were 0.22 and 0.89°/oo. No explanation is given (Panarctic, 1980b) of how the CTD profiles were corrected.

Steven's 2A-35 water level gauges were deployed at both sites; accuracy is unknown. Apparently an Aanderaa tide gauge was also deployed at 77°36.5'N, 99°31.13'W but no details were available.

1980-0013

These data were collected as part of an oceanographic and meteorological study of the Dundas Island polynya in Queens Channel.

Five modified internally recording Aanderaa RCM-4 current meters were used. These instruments were suspended on lengths of hydraulic hose for rotational stability and to provide a fixed directional reference. The current meters use an in-line directional vane assembly attached beneath the pressure case (Lewis, 1980).

1980-0014

Aanderaa RCM-4's modified for Arctic use were deployed near-surface, mid-depth and near-bottom at three sites. The surface meters were rigidly connected to surface in order to obtain directional reference. The vane contained magnets which were coupled with the compass inside the casing. The mid-depth and near-bottom meters had no direction sensor. Three of the meters failed after recording some data. Two were tape drive failures, the third due to an "O"-ring leak.

An Aanderaa WLR5A was used to record ambient pressure and thus water level. Manufacturer's specified accuracy is 0.01% of selected range; the range was not specified in Juhasz (1980).

1980-0015

See the comments for 1979-0021.

1981-0007

This study was concentrated in Barrow Strait however some CTD stations were occupied in southern Wellington Channel and McDougal Sound. A Guildline MK VI CTD was deployed through holes in the ice, using a helicopter as transport. The CTD was calibrated before and after the survey.

1981-0019

See the comments for 1979-0021.

1981-0108

Temperature-salinity data were collected by B.W. Faills of D.F.O., Western Region (Freshwater Institute). A request for details went unanswered.

1981-0117

The appropriate page of our report copy was missing, however the actual water level data (high/low) were plotted in Appendix E of Fenco (1981).

1982-0003

A Twin-Otter aircraft was used to land on the ice to make CTD profiles, throughout the Archipelago. A similar survey was also conducted the following year (1983-0010). Station positions were determined using the GNS-500 VLF/Omega navigation system on the aircraft.

Care was taken to calibrate and correct for any known errors in the CTD data (Fissel, Knight & Birch, 1984).

1982-0107

Temperature-conductivity data were collected by Dr. N. Watson of B.I.O. A request to B.I.O. for further details went unanswered.

1982-0129A

The Aanderaa current meters were calibrated by Dobrocky Seatech prior to deployment. It was stated (Van Ieperen, 1983) that the data agreed well with similar data collected in 1981 (1981-0116).

1982-0129B

Dobrocky deployed three Aanderaa current meters for Petro-Canada and Phillips Petroleum, while in the area doing a job for Panarctic Oils Ltd. (1982-0129A). We are not aware of any report or further details.

1982-0130

CTD data were taken by Dobrocky Seatech Ltd. using a Guildline 87805 probe. Near surface temperatures are probably suspect due to the use of a heat tape to keep the hole in the ice open. The data compared favorably with previous CTD measurements made by D.F.O. (1979-0019).

Some settling of the water level anchor system occurred at Cape Mamen, however, the accuracy was still believed to be on the order of $\pm$ 5 cm.

The measured currents were frequently beneath the stall speed of the instruments.

1982-0131

1982 was the first year of a five-year program of water level data collection from three sites along the northwest periphery of the Queen Elizabeth Islands (see also 1983-0077, 1984-0060 and 1985-0042). Moored pressure recorders were located at Audhild Bay, Mould Bay and Isachsen (begun in 1983). The data are on file at I.O.S.; Contact Mr. Fred Stephenson.

1983-0004A

One station in Nansen Sound was occupied as part of a large program to study the Alpha Ridge in the Arctic Ocean. Further information may be obtained from Dr. R. Perkin at I.O.S.

1983-0005

A Twin-Otter aircraft was used for the survey. The CTD was a Guildline 8706 probe/87102 control unit. Descent rate was controlled so the response of the condutivity and temperature sensors would be best matched. Calibrations were made for pressure, temperature and salinity. Also, simultaneous casts were made with a Bayfield Laboratory CTD in order to compare results. Refer to Fissel et al. (1984) for more detail on methods and analyses.

This data set is identified as 1983-0010 in the adjoining NW passage data inventory.

1983-0008

This represents the second year of a comprehensive 3-year oceanographic survey of the Archipelago (see also 1982-0004 and 1984-0040). Measurements were made of water mass, currents, and tidal variability. Analyses included non-tidal (residual) flow, tides and tidal currents, water mass variability and baroclinic structure.

1983-0076

The tides (water level) measured at the Cape MacMillan 2K-15 site exceeded the range of the recording instrument. Water level data were also collected attwo other sites (Grenadier A-26 77°25.1'N 99°35.93'W; Cisco K-58 77°28.6'N 106°21.15'W) although no data report was available. Water level data from Grenadier A-26 for the February 25 to March 3 period is plotted in Panarctic (1983).

Measurement of temperature, salinity and currents were also made at the Cape MacMillan site. Many current records were below the stall speed of the instrument. The near surface CTD data were probably affected by the heat tape used to keep the hole in the ice open.

1983-0077

Refer to comments under 1982-0131.

1984-0039

As in 1981 (1981-0108) temperature-salinity data were collected by Mr. Falls of the Freshwater Institute. No details were available.

1984-0049A

This was the final year of a comprehensive 3-year survey (see comments under 1983-0008). The coordinates of the tide guage in Penny Strait were not provided in Buckingham et al. (1987); a nominal location of 76°39'N, 96°55'W has been assumed.

1984-0049B

This was part of the Arctic Shelf Program (Perkin, pers. comm.). The quality of the current meter data is not known at this time.

1984-0059

The CTD and water level data are of good quality. Only 2 of 5 current meters worked, and these indicated current directions contrary to those measured in 1982 and 1983.

1984-0060

See comments under 1982-0131.

1985-0015

Salinity measurements were made by Dr. Moore of Dalhousie University. A request for further information went unanswered.

1985-0041

Panarctic drilled West Cornwall N-49 (77°29.88'N, 97°18.54'W) during February-April, 1986. Although no data report has been found, it is believed that water level data may have been collected at this site by Geotech.

1985-0042

See comments under 1982-0131.

1985-0043

As part of an ongoing project to study tidal propagation in the Arctic Archipelago, five tide gauges were moored near Cameron Island. The data analyses are presented in Sandilands et al. (1986).

1985-0044

The project goal was to monitor temperature-salinity variations in the upper layer, using a self recording package suspended under the ice. As part of this study, Guildline CTD profiles were obtained at Mould Bay in 1985. For further information, contact R. Perkin at I.O.S.

1986-0016

Although unspecified, the water level measurements were probably made with a Stevens analog recorder, as in past years. The results are included in an unpublished data report.

APPENDIX 2

ADDRESSES OF INFORMATION SOURCES

Arctic Biological Station
Fisheries and Marine Service
Dept. of Environment
PO Box 400
Ste. Anne de Bellevue, PQ H9X 3R4
Phone: (514) 457-6219

Arctic Laboratories Ltd.
2045 Mills Road
Sidney, B.C. V8L 3S1
Contact Mr. P. Erickson
Phone: (604) 656-7077

Bayfield Laboratory for Marine Science and Surveys
P.O. Box 5050
Burlington, Ontario L7R 4A2
Phone: (416) 637-4380

Bedford Institute of Oceanography
PO Box 1006
Dartmouth, NS B2Y 4A2
Phone: (902) 426-3870

Canadian Hydrographic Service (CHS)
Contact Tidal Information at the Institute of Ocean Sciences
Sidney, B.C.
Phone: (604) 356-6371

Canadian Oil and Gas Lands Administration (COGLA)
Physical Environment Division
355 River Road
Ottawa, Ontario K1A 0E4
Contact Mr. A.O. Mycyk (613) 993-3760

Defence Research Establishment Ottawa (DREO)
Ottawa, Ontario K1A 0Z4
Phone: (613) 992-8395

Defence Research Establishment Pacific (DREP)
CFB Esquimalt
Victoria, B.C. V0S 1B0
Phone: (604) 388-1921

Institute of Ocean Sciences
P.O. Box 6000,
Sidney, B.C. V8L 4B2

Contact: Ocean Physics	- Dr. Humfrey Melling	(604) 356-6552
	- Mr. Ron Perkin	(604) 356-6584
	- Dr. Dave Topham	(604) 356-6582
Ocean Chemistry	- Dr. Rob Macdonald	(604) 356-6409
Tides & Currents	- Mr. Fred Stephenson	(604) 356-6364

International Council for the Exploration of the Sea
Palaegade 2-4
DK-1261 Copenhagen k
Denmark
Phone: (0) 1 15 42 25

Marine Environmental Data Services (MEDS)
Dept. of Fisheries and Oceans
12th Floor - 200 Kent Street
Ottawa, Ontario K1A 0E6
Phone: (613) 995-2041

McGill University
Marine Sciences Centre
Montreal, PQ H3A 2T8
Contact Dr. E.R. Pounder (Ice Research)
Phone: (514) 392-5127

National Oceanographic Data Center (NODC)
National Oceanic and Atmospheric Administration, Code D761
2001 Wisconsin Ave. NW
Washington, D.C. 20235
Phone: (202) 634-7500

National Technical Information Service
US Dept. of Commerce
Springfield, VA 22161
Phone: (703) 487-4650
NTIS handles the sale of most US government publications

US Naval Oceanographic Office
Washington, DC 20390

US Naval Oceanographic Office
NSTL station
Bay St. Louis, MS 39522

Woods Hole Oceanographic Institution
Woods Hole, MA
Phone: (617) 548-1400

World Data Centre A
Oceanography
National Oceanographic and Atmospheric Administration
Washington, DC 20235

APPENDIX 3

ABBREVIATIONS USED IN THIS REPORT

ABS	Arctic Biological Station
AML	Applied Microsystems Limited
ASL	Arctic Sciences Limited
BIO	Bedford Institute of Oceanography
BT	Bathythermograph
CCIW	Canadian Centre for Inland Waters
CHS	Canadian Hydrographic Service
CODC	Canadian Oceanographic Data Centre
COGLA	Canadian Oil and Gas Lands Administration
DFO	Department of Fisheries and Oceans
DIAND	Department of Indian Affairs and Northern Development
DREO	Defense Research Establishment Ottawa
DREP	Defense Research Establishment Pacific
EPS	Environmental Protection Service
ESRF	Environmental Studies Revolving Fund
GSC	Geological Survey of Canada
IOS	Institute of Ocean Sciences
LGL	LGL Ecological Research Associates, Inc.
MEDS	Marine Environmental Data Services Branch, Dept. of Fisheries and Oceans, Ottawa
MOT,DOT	Ministry of Transport, Dept. of Transport, now Transport Canada
NODC	National Oceanographic Data Center
NOGAP	Northern Oil and Gas Action Program
NRC	National Research Council
PCSP	Polar Continental Shelf Project
T/S	Temperature-Salinity
USNHO	U.S. Navy Hydrographic Office, Washington
USNOO	U.S. Naval Oceanographic Office, Washington
XBT	Expendable Bathythermograph

CHEMICAL/BIOLOGICAL TERMS USED IN CONCURRENT MEASUREMENTS (TABLE 1)

Ag	Silver
alkt	Alkalinity (total)
As	Arsenic
BEC	Benzene extractable compounds
BOD	Biological oxygen demand
C	Carbon
Ca	Cadmium
$CaCO_3$	Calcium carbonate
CH_3	Methyl (mercury)
CH_4	Methane
Cl	Chlorine
Chl.a	Chlorophyll a
Co	Cobalt
CO_2	Carbon dioxide
C^{14}	Radioactive isotope of carbon, C^{14}
Cr	Chromium
Cu	Copper
DNA	Deoxyribonucleic acid
DOC	Dissolved organic carbon
F	Fluorine
Fe	Iron
H	Hydrogen
HC	Hydrocarbons
HCB	Hexachlorobenzene
He	Helium
HEC	Hexane extractable compound
Hg	Mercury
KME	Kraft mill effluent
Mg	Manganese
N	Nitrogen
N_3	Azine
Ne	Neon
NH_3	Ammonia
Ni	Nickel
NO_2	Nitrite
NO_3	Nitrate
O_2	Dissolved molecular oxygen
ORP	Oxygen reduction potential

P	Phosphorous
Pb	Lead
PCB	Polychlorinated biphenyls
pH	The negative logarithm of the hydrogen-ion concentration
POC	particulate organic carbon
PO_4	Phosphate
RNA	Ribonucleic acid
Se	Selenium
Si	Silicon
SiO_2	Silica
SiO_3	Silicate
SPM	Suspended particulate matter
TDN	Total dissolved nitrogen
TDP	Total dissolved phosphorus
TOC	Total organic carbon
V	Vanadium
Zn	Zinc