ARCTIC DATA COMPILATION AND APPRAISAL VOLUME 8 (PART 1)
Beaufort Sea: Biological Oceanography - Seals 1826-1985

by
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1986

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.

CANADIAN DATA REPORT OF

HYDROGRAPHY AND OCEAN SCIENCES NO. 5

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ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 8 - PART 1

Beaufort Sea: Biological Oceanography - Seals

1826-1985

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PREFACE

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

The appraisals will assist in establishing priorities for incor- ıting the most useful data in the national Marine Environmental Data /ice (MEDS) archives. Additional uses of the catalogues include ɜarch planning and the provision of the best available resume of marine ı sources for environmental assessments and land use planning.

In the past, the pace of offshore development activity has empha- ɜd the need to review the sufficiency and suitability of available ɜntific information for design, regulatory and planning purposes. The iew is a three stage process: 1) compilation and appraisal of the sting data sets; 2) analysis of the suitability of existing data sets contributing answers to questions of concern, and; 3) analysis and ɜrpretation of data and estimation of scientific confidence in the ver to the particular question. This seal catalogue for the Beaufort represents part of the results of the first stage.

Brian Smiley and Larry de March
Scientific Editors
Arctic Data Compilation and Appraisal Series

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TABLE OF CONTENTS

Page

PREFACE ii

TABLE OF CONTENTS iii

ABSTRACT/RESUME iv

ACKNOWLEDGEMENTS v

VOLUME ABSTRACT 1

VOLUME 8 - PART 1

1. INTRODUCTION 1

2. STUDY AREA 2

3. SUMMARY OF DATA COVERAGE 2

4. SUMMARY OF STUDY METHODS 8

5. GENERAL LAYOUT OF THE CATALOGUE 12

6. APPRAISAL OF STUDY METHODS 15

7. REFERENCES 48

8. DATA CATALOGUE TABLES 57

Table 1 57
Table 2 142
Table 3 282

VOLUME 8 - PART 2

9. MAPS 353

10. INDICES 603

APPENDIX 1 FURTHER REMARKS 647

APPENDIX 2 CONTACTS AND ADDRESSES FOR INFORMATION SOURCES 652

ABSTRACT

Harwood, L.A., L.A. Turney, L. de March, B.D. Smiley and P. Norton. 1986. Arctic Data Compilation and Appraisal. Volume 8. Beaufort Sea: Biological Oceanography - Seals, 1826-1985. Can. Data Rep. Hydrogr. Ocean Sci. 5:(Vol. 8, Part 1, 352 p., Part 2, 301 p.).

This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For ease of reference, the group has been organized with its subject matter divided into three disciplines: physics, chemistry, and biology. The Arctic has been arbitrarily divided into seven geographical areas to include, where possible, major oceanographic regions. The format has been structured to facilitate comparison between subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Therefore catalogues which are presently available in the series are indicated on the inside back cover of each volume.

Data collection is a continuing process and further updates of the catalogues are planned. Readers are invited to submit corrections and additions by writing the issuing establishment. These corrections will be incorporated in on-line computerized data set listings; they will be continuously available upon request.

RESUME

Harwood, L.A., L.A. Turney, L. de March, B.D. Smiley and P. Norton. 1986. Arctic Data Compilation and Appraisal. Volume 8. Beaufort Sea: Biological Oceanography - Seals, 1826-1985. Can. Data Rep. Hydrogr. Ocean Sci. 5:(Vol. 8, Part 1, 352 p., Part 2, 301 p.).

Le présent volume fait partie d'un groupe de catalogues destinés 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 été divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les regions. Le domaine est si vaste qu'il est impossible de fournier 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.

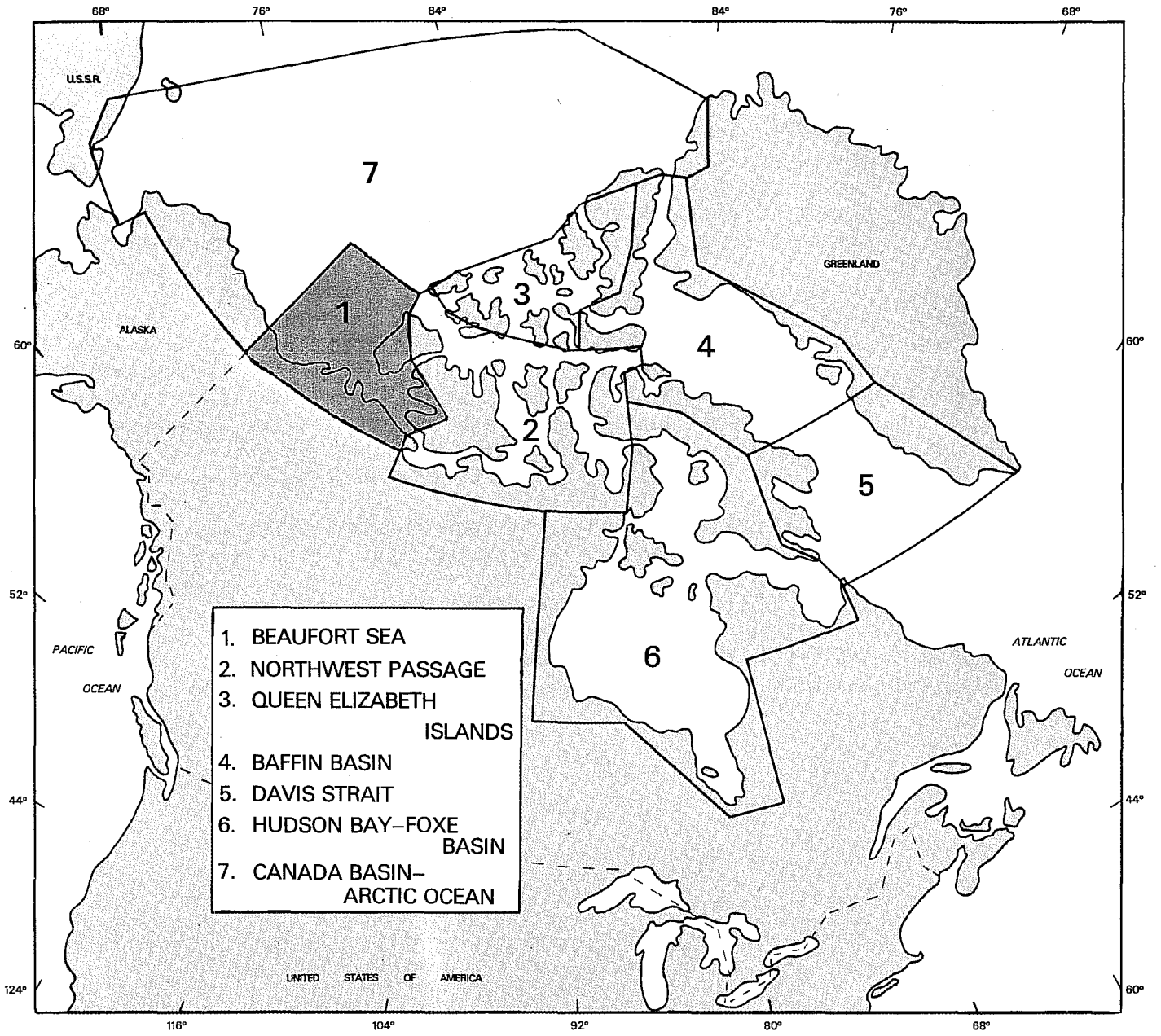
La collecte des données est un processus permanent et il est prévu de mettre a jour les catalogues par la suite. Les lecteurs sont invites a soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listes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

ACKNOWLEDGEMENTS

The preparation of this inventory was funded by the Dept. of Fisheries and Oceans (DFO) through the Northern Oil and Gas Action Program (NOGAP). The Fisheries Joint Management Committee established according to the terms of the Inuvialuit Final Agreement (Western Arctic Claims) provided publishing costs. Larry de March of the Freshwater Institute (DFO) was the Scientific Authority for the project. Others who contributed to format design were Dave Thomas and George Floyd (Arctic Laboratories Ltd.).

Many people provided useful suggestions and insight, and access to unpublished data, reports and field notes. In particular, we thank Ian Stirling (Canadian Wildlife Service), Michael Kingsley (DFO), Rupert Tingling (Government of Northwest Territories) and John Ward (Dome Petroleum Ltd.). Don Ljungblad (Naval Ocean Systems Center, San Diego), David Rugh (National Marine Mammal Laboratory, Seattle), Rob Stewart (DFO), John Richardson (LGL Ltd.) and John Ford (DFO) also provided assistance.

The authors wish to acknowledge the contributions of the many people who assisted with the production of the manuscript. Word processing of this report was done by Jim Lepard, and earlier drafts by Christine Surtees, proofing by Colleen Bryden and Rick Cormier, and photocopying of the inventoried reports by Jan Bradley. Susan Ball digitized the maps (Section 10), and Ann Blyth and Brian Sawyer drafted the figures. Sharon Thompson provided technical editing and assistance with publishing.



The area covered by this volume is shaded on the above map.

ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 8 - PART 1

BEAUFORT SEA: BIOLOGICAL OCEANOGRAPHY - SEALS
1826-1985

Volume 8: Beaufort Sea: Biological Oceanography - Seals, 1826-1985

VOLUME ABSTRACT

This data report includes a catalogue of measurements made on pinnipeds ("seals") in the southeast Beaufort Sea and Amundsen Gulf. In total, 172 studies were catalogued, spanning the period from 1826 to and including 1985. The catalogue comprises three main tables followed by supporting figures and indices. The tabulations include the following: general study parameters, species, specific measurements, concurrent biological, chemical, and physical measurements, details on sampling intensity and study methods, appraisal of study methods, and specific times and locations where sampling was conducted. More than 70% of the studies in the catalogue have been conducted since 1970, and more than half of the data sets included Amundsen Gulf and/or the Mackenzie Shelf within study area boundaries. Eighteen different study methods were identified, and these were used to make 170 different types of measurements. The most common methods were hunter interviews, and reconnaissance and systematic aerial surveys.

Key Words: Amundsen Gulf, Beaufort Sea, data, catalogue, pinnipeds, seals, walrus.

1. INTRODUCTION

The objective of this work was to catalogue all available Beaufort Sea pinniped data sets, and to appraise the quality of the methods used to collect this data. The catalogue includes all known completed studies in the Beaufort Sea and Amundsen Gulf which were designed specifically to study pinnipeds during and prior to 1985. Numerous other studies, particularly those which involved aerial surveys for whales, were also included if sufficient details regarding seal sightings were provided or readily available.

In total, 172 data sets were catalogued. A "data set" consists of data collected during a single expedition, cruise or field season, usually by a single institution or agency. The Order Pinnipedia ("pinnipeds") encompasses seals, sea lions, and walruses, and all are included in the catalogue. For easy reference, however, the title and wording in this volume do not make this distinction, referring to the group in aggregate as "seals."

Studies which involved biochemical analyses of seal tissue or fluids for toxicological purposes (e.g. to quantify levels of contaminants) were catalogued in Volume 2 (Beaufort Sea: Chemical Oceanography), and have only been cross-referenced in this volume. However, there are some data sets included in this catalogue which involved biochemical analyses, but these were included only if they had an ecological perspective (e.g. caloric value of seals consumed by polar bears).

The location and accessibility of all original data sets for pinnipeds in the region was determined through a literature search encompassing scientific journals, books, government, industry, and public reports, and by contacting principal investigators (see Appendix 2). Approximately half of the data sets included in this catalogue also appear in Volume 9 (Beaufort Sea: Biological Oceanography - Whales); that document served as a starting point for the present catalogue (Norton et al., 1986).

The catalogue is ongoing. When new data and previously inaccessible data become available, they will be added to future updates of the catalogue. The catalogue will be entered onto a computerized data base maintained at the Institute of Ocean Sciences, Sidney, B.C. Information about new data sets, older data sets which do not appear in this catalogue, or errors in this catalogue, should be submitted in writing to the Freshwater Institute (Winnipeg) or the Institute of Ocean Sciences (Sidney).

Wherever possible, formats were adopted that were consistent with those used in the companion catalogues for the Beaufort Sea region, particularly the whale data catalogue (Norton et al., 1986).

2. STUDY AREA

The study area was defined as the southeast Beaufort Sea and Amundsen Gulf, and included all marine areas west of 117°W longitude, east of 141°W longitude, and south of 76°N latitude. Minto Inlet, Prince Albert Sound and the southern half of Prince of Wales Strait were also included in the study area (Figure 2.1). The Mackenzie River delta channels and communities were included in the catalogue when data existed for these areas in the same data set as offshore data.

The study area was divided into the sub-regions indicated on Figure 2.1 (Mackenzie Shelf, Tuktoyaktuk Shelf, Continental Slope, Canada Basin, Amundsen Gulf, Mackenzie Bay, and Banks Island Shelf). Specific locations within these sub-regions which are referred to in Table 1 of this catalogue are also indicated on Figure 2.1.

3. SUMMARY OF DATA COVERAGE

In total, 172 data sets were catalogued. This section presents a summary of the objectives of these studies, the species examined, and spatial and temporal trends in data coverage.

3.1 STUDY OBJECTIVES

The primary objective of 43 (25%) data sets was to make seal measurements. These studies were conducted between 1971-1985 by scientists from the Canadian Wildlife Service and Dept. of Fisheries and Oceans (Arctic Biological Station and Freshwater Institute). Four major types of studies were included in this category: (1) collection of harvested ringed and bearded seals to examine body condition, age, and reproductive condition; (2) systematic aerial surveys to census ringed and bearded seals during the spring haul-out period; (3) censuses of seal birth lairs and studying aspects of predation at the lairs; and (4) capturing seals in nets

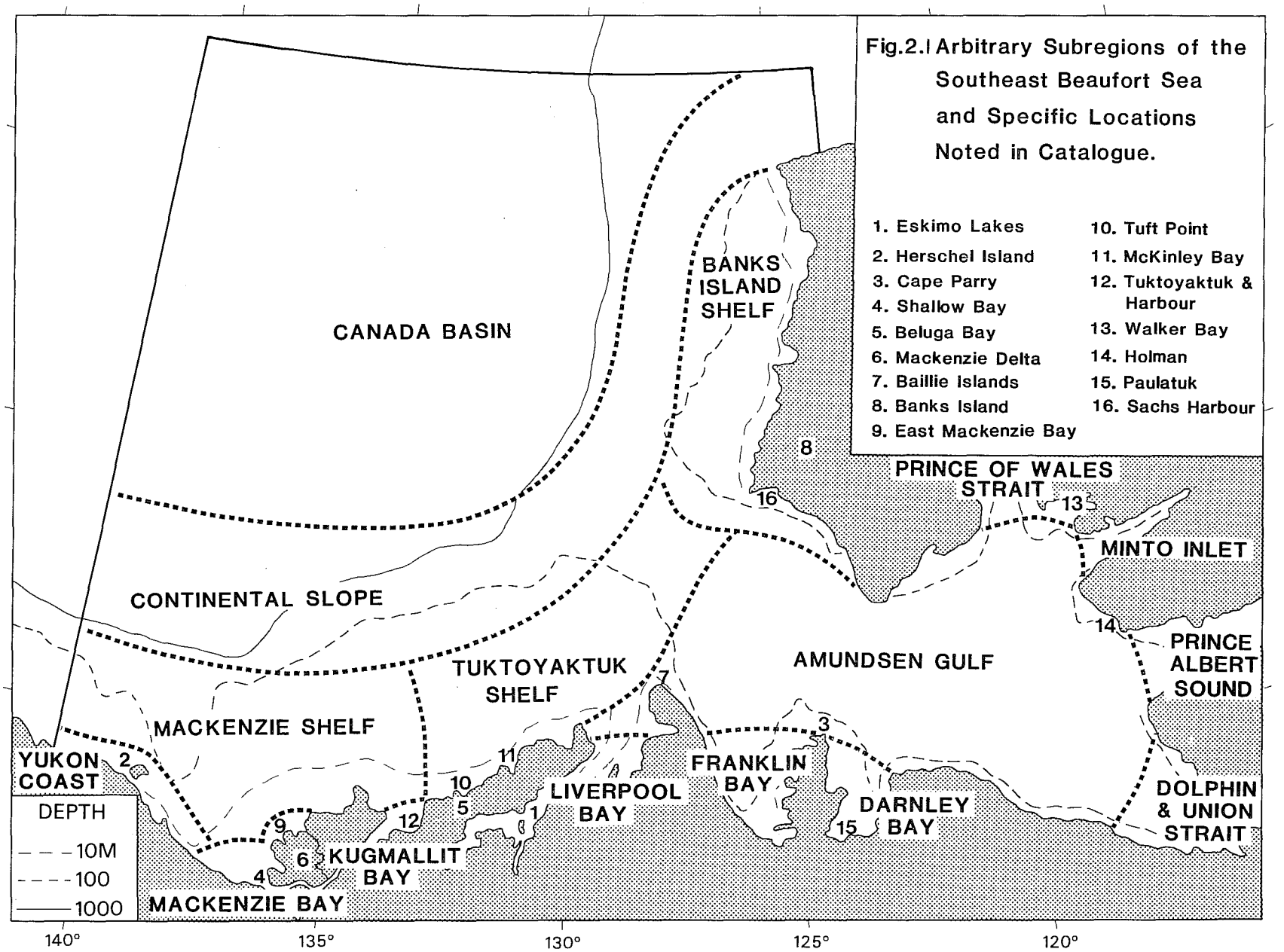


Fig.2.1 Arbitrary Subregions of the Southeast Beaufort Sea and Specific Locations Noted in Catalogue.

1. Eskimo Lakes
2. Herschel Island
3. Cape Parry
4. Shallow Bay
5. Beluga Bay
6. Mackenzie Delta
7. Baillie Islands
8. Banks Island
9. East Mackenzie Bay
10. Tuft Point
11. McKinley Bay
12. Tuktoyaktuk & Harbour
13. Walker Bay
14. Holman
15. Paulatuk
16. Sachs Harbour

for use in in situ oil immersion studies or to study morphometrics and blood chemistry.

The remainder of the data sets had other primary objectives and were funded by both industry and government. Some were designed to study whales, polar bears or birds; seal measurements were made incidentally or as part of a secondary objective. For example, 13 data sets were based on seal sightings made incidentally during summer and fall systematic aerial surveys for whales in the region. The data are limited due to use of a "whale specific" technique, but nonetheless provide an indication of the distribution and relative abundance of seals during the open water period.

Twenty-three data sets were based on seal sightings made incidentally during non-systematic surveys for whales. The purpose of these studies was to study the behaviour of whales (disturbed and undisturbed) or to photograph the whales. Seal sightings are limited due to their opportunistic nature (e.g. seals probably not recorded or noticed during times when whales were present and being monitored or photographed). These studies were completed during the open water period.

Eleven data sets were collected during Canadian Wildlife Service polar bear studies which began in 1971 in the Beaufort. During early spring (March-May), seals and remains of seals killed by bears were collected and used to determine age, reproductive condition, and body condition. Three data sets described seals recorded during bird surveys in the Beaufort; one of these spanned several years. The recording of seals was limited in this case to "unusual events," such as particularly large congregations of seals hauled-out on the banks of the Mackenzie River.

Twelve data sets were collected by industry, and include incidental sightings of seals made by personnel working on vessels in the Beaufort. These data have been published annually since 1976 by industry, and since 1982, have been published along with results of the systematic bowhead surveys. Also in this category are studies completed and published by industry in a specific area (e.g. McKinley Bay), as a regulatory requirement.

Seven data sets were based on diaries and "memories" from exploration and natural history expeditions. Most of the data are reported in popularized accounts, and therefore limited in terms of accuracy of the locations reported and consistency in the number of observations made in a given area or time. There were many other reports from such expeditions and trips which were examined for this catalogue, but could not be included because they lacked recordings of specific measurements and observations. For example, an author may have referred to consumption of seal meat and utilization of skins, but no records were provided of the numbers taken or from where they were taken.

Five data sets were from historical whaling voyage accounts. Sources included primarily historical narratives based on diaries and ships' logs. These accounts were generally limited in the same manner as the exploration and collection expeditions described above, perhaps to an even greater extent because the whalers directed all their attention to whales.

Nine data sets fall into the category of having been collected during "early" (pre-oil and gas development) biological and/or geographical expeditions to the Beaufort Sea. The data are primarily reports of incidental sightings or a compilation of notes on seal sightings during voyages. Sixteen data sets were extracted from notes or short papers in the published scientific literature which were compilations of sightings from a number of years and unrelated studies. Eight data sets are based on observations made on oceanographic cruises or other voyages ("vessel-of-opportunity"). They ranged from opportunistic sightings made by crew members, to sightings made by trained observers during designated wildlife watch periods. The seal data in this category were obtained incidentally to the primary objective of the cruise.

Five data sets were based on RCMP expeditions, game reports, and kill records. RCMP officers were not required to collect biological or harvest information, but some individuals did so in addition to regular duties. As a result, the amount of data varies markedly among locations, years, and officers. Presumably the type and quality of data collected varies further according to the experience and enthusiasm of the recorder. Another four data sets were based on data collected during economic surveys.

Seals were classified as furbearers in 1971, and since then, records have been kept by the Government of the Northwest Territories of the number of pelts exported from each community, and the cost paid per pelt. Records do not include the harvesting location, only the area from which they were exported. Seals taken and used for domestic purposes are not included in the sets because no formal records are kept of the number taken for such purposes. There are 12 data sets in this category. There is one data set which encompasses trading records of the Hudson's Bay Company.

3.2 SPECIES EXAMINED

The majority of studies focussed on ringed and/or bearded seals (Figure 3.1). Unidentified pinnipeds were recorded in 26% of the data sets, while 16% recorded walrus measurements. Very few data sets included the remaining species (harbour, harp and hooded seals, sea lion and fur seal). It is probable that a proportion of these sightings were incorrectly identified, because few of them were recorded/examined by a trained observer.

3.3 TRENDS IN SPATIAL AND TEMPORAL COVERAGE

The most frequently recorded study locations were Amundsen Gulf (52%), Mackenzie Shelf (50%), Tuktoyaktuk Shelf (39%), Yukon Coast (37%), Continental Slope (31%) and Mackenzie Bay (26%). The data sets are indexed by geographic location in Section 10.

The number of studies conducted per 5-year interval is indicated on Figure 3.2. The majority of the studies have been conducted since 1970 (74%). The year with the most studies was 1980 (14 data sets, or 8% of total).

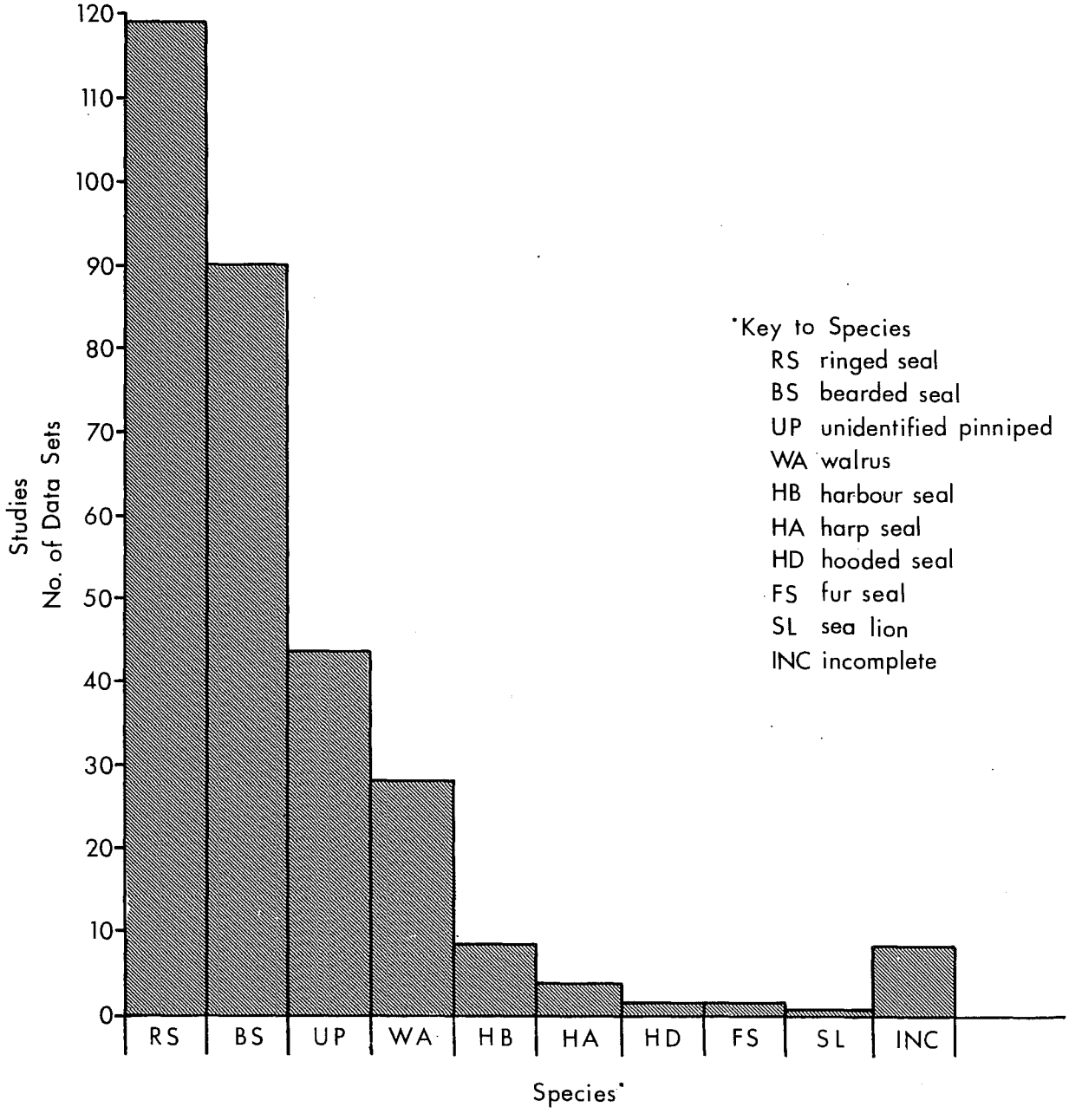


Fig. 3.1 Frequency distribution of species examined, by number of data sets

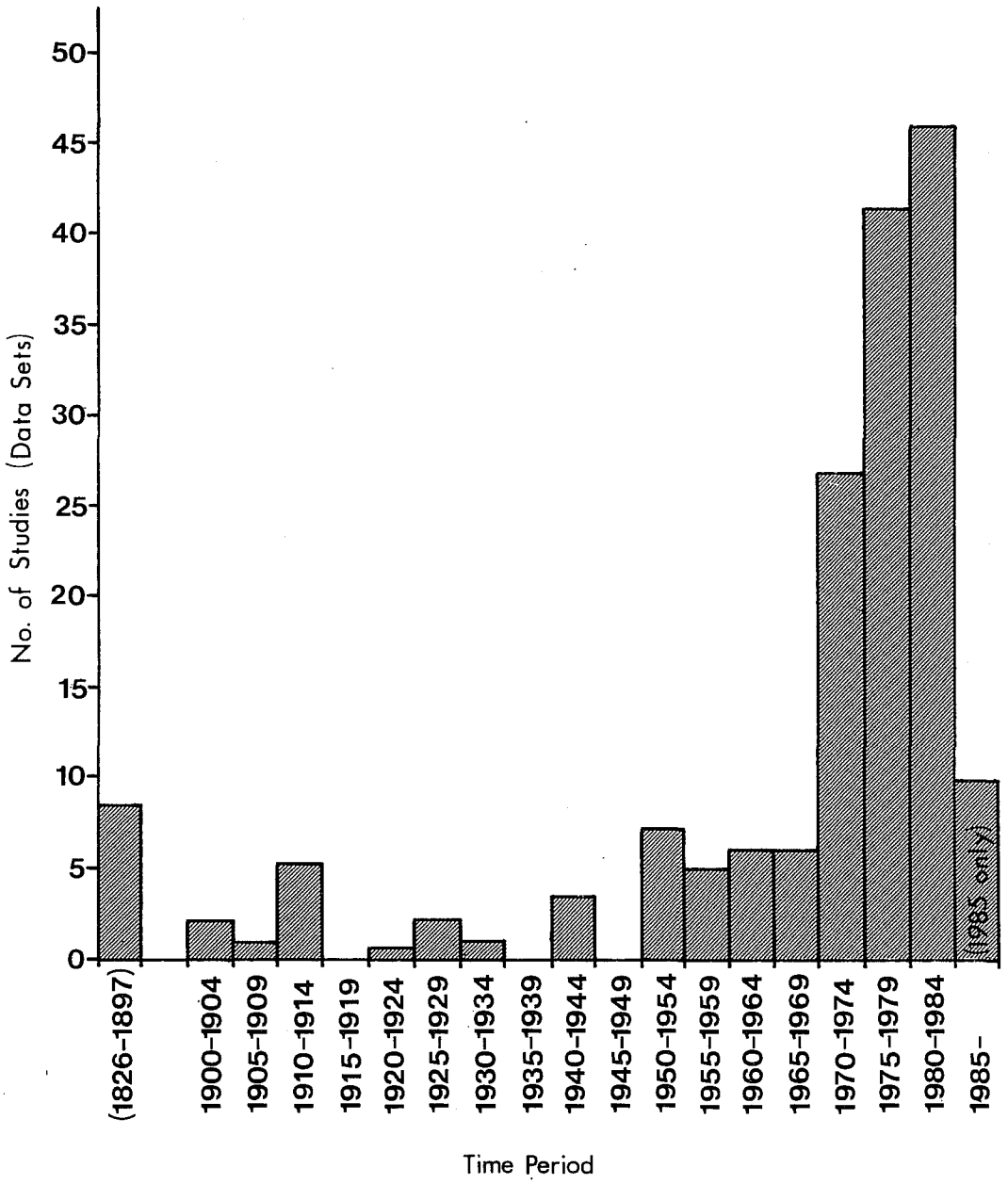


Fig. 3.2 Frequency distribution of number of studies conducted, by five year interval

4. SUMMARY OF STUDY METHODS

A total of 18 different study methods were identified during the preparation of this catalogue. The data sets are indexed by method in Section 10, while this section includes a general discussion of each. Some studies employed two or more methods. Figure 4.1 presents the number of data sets employing each method.

4.1 ACOUSTIC RECORDINGS

Underwater acoustics have been used to monitor the behaviour and relative abundance of pinnipeds. The majority of acoustic research undertaken to date has involved the detection and monitoring of vocalization types and rates using an omnidirectional hydrophone. Studies of this nature reveal the sound repertoire which a species is capable of producing and factors which influence the type and rate of vocalizations produced (Klenner et al., 1984).

Ten of the data sets in this catalogue involved the recording of seal vocalizations, from 1972 to 1982. All but one of these took place during winter or spring from the ice surface. The vocalizations of both ringed and bearded seals have been recorded, analysed and interpreted.

4.2 AERIAL PHOTOGRAPHY AND VIDEO RECORDING

Aerial photography was used in two 1985 studies. One study was directed at censusing seals (85-0002), while the other was designed to census white whales (85-0004). The latter also included video recordings. Analysis of the photographs is in progress at the time of writing. An objective of both projects was to examine the feasibility of using this technique for censusing arctic marine mammals. Because visual counts were conducted simultaneously in both programs, a comparison of the photographic and visual techniques will be forthcoming.

4.3 HUNTER INTERVIEWS

This was the most frequently employed method. Thirty-seven data sets used this method in the years 1962 to 1979. It involves hunter's sightings which were reported by others (e.g. RCMP officers, natural historians, explorers, technicians stationed at settlements, etc.). The "hunter interview" is the study method identified for the purpose of this catalogue, and not the method by which the hunter killed or observed the animal. Data collected using this method can be limited if all hunters were not interviewed, or if individuals were not identified (potential for double-counting landed animals or repeating same observation).

4.4 ICE WATCH, SHORE WATCH, VESSEL WATCH

These methods were used in 25 studies. Seals were observed from either the shore, the ice surface or a stationery vessel. Studies were classified as "watches" if the observer was stationary during a designated observation period or for a specified length of time with the objective of

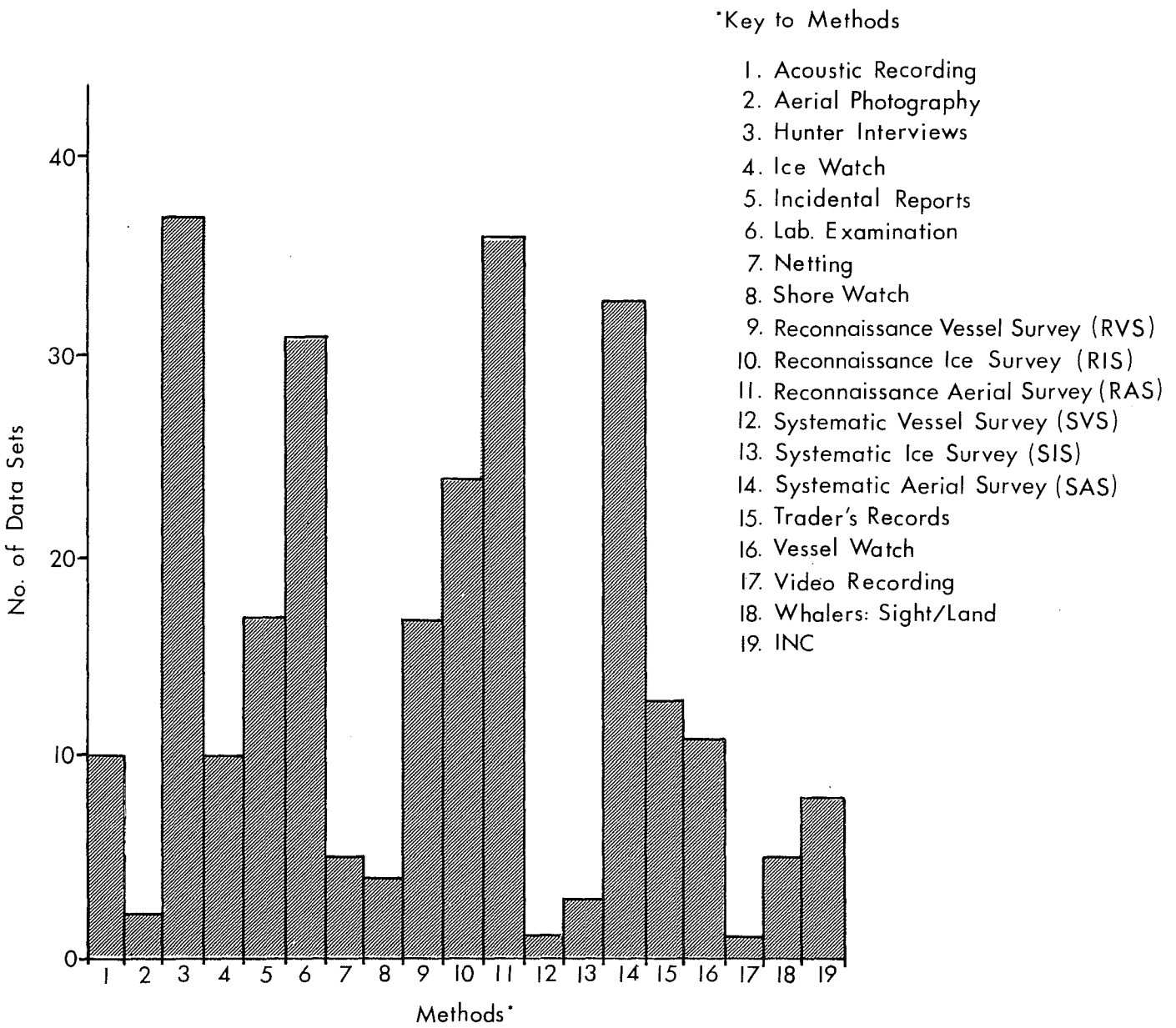


Fig. 4.1 Frequency distribution of study methods

"watching." The training and experience of the observers varied markedly among data sets.

4.5 INCIDENTAL REPORTS

This method includes seal sightings or landings made by persons other than marine mammologists, hunters or whalers. It often involves the reporting of a measurement by a third party, or the making of measurements by an untrained observer. Consequently, data collected using this method are often of limited use since documentation on observer experience, observation conditions, procedures, effort and techniques are not provided. Seventeen data sets were placed in this category, spanning the period 1911 to 1984.

4.6 LABORATORY EXAMINATION OF COLLECTED SPECIMENS

Thirty-one data sets (1914-1979) involved the collection of seal tissue, skulls, stomachs, claws and/or teeth for analysis in the laboratory. Certain types of measurements on the specimens were conducted in the field, and then the specimens were fixed for re-examination and further study in the laboratory. The work was conducted to determine age of the specimens (teeth and claws), reproductive condition (examination of reproductive tracts), feeding preferences (stomach contents identified and weighed), species (examination of skulls) and caloric values (whole body and selected tissues).

4.7 NETTING

Five data sets involved netting seals. Two of these originated from the inadvertent capture of seals in fishnets. Three were scientific studies intended as mark-recapture programs and to provide specimens for *in situ* oil exposure studies in 1971, 1972 and 1974.

4.8 SURVEYS

Data sets using a survey method have been categorized into six subgroups, according to survey design and platform. (The survey method always includes a mobile search effort.) The six groups reflect both reconnaissance effort (no pre-determined grid or pattern) and systematic effort from each of the following platforms: the ice surface, a vessel, and aircraft. Overall, 114 surveys were catalogued.

4.8.1 RECONNAISSANCE SURVEYS

Reconnaissance vessel surveys were conducted by explorers, natural historians, and scientists, from a variety of vessels such as canoes, icebreakers, tugboats and research vessels. Reconnaissance ice surveys were generally conducted from helicopters or fixed-wing aircraft, although some programs involved travel over the ice by sled and dog-team or snowmachine. Reconnaissance aerial surveys were usually conducted from a Twin Otter. Prior to 1980, Cessna 180's, Piper Aztec's and Super Cubs were also used. Seal observations or measurements were incidental to the program objectives

of most of the reconnaissance surveys, which were directed toward whales or polar bears.

4.8.2 SYSTEMATIC SURVEYS

Only one systematic vessel survey (85-0007) was catalogued. The objective of this work was to collect oceanographic samples in the vicinity of bowhead whale feeding areas using a 12.5 m fishing vessel during late August.

Three data sets involved systematic surveys from the ice surface. Two of these (74-0115 and 75-0132) were lair searches at predetermined locations spaced on a grid, while the third (82-0096) was limited to travel between specific recording locations in order to record seal vocalizations. Travel between sites in all three was by helicopter.

Thirty-three data sets involved systematic surveys from an aircraft. Sixteen of these were done during the spring haul-out period, and were designed specifically to monitor seal distribution. Observers, aircraft (Cessna 337), altitude (152 m) and speed (240 km/h) remained relatively consistent thoughout these surveys.

Most of the other systematic surveys were conducted to examine bowhead whale or white whale distribution during the open water period. Seals, if detected, were routinely recorded by most observers, but the relatively high survey altitude (generally 305 m) did not facilitate this except during times of excellent survey conditions. Most of the work was conducted from a Twin Otter, at speeds of 200 km/h.

4.9 TRADER'S RECORDS

Thirteen data sets were based on records kept by traders or trading posts, compiled by the Government of Northwest Territories and Hudson's Bay Company. In each case, the records were kept for financial or legal reasons (e.g. not biological reasons), and this limits their applicability to biological studies. Nevertheless, the documentation was clear in most cases as to what the records did and did not include. While each trader reports independently, the information is proprietary and presented in this catalogue on a community basis only.

4.10 WHALERS' SIGHTINGS OR LANDINGS

Very few whaleship logbooks report seal sightings *per se*, although seals were often taken as a source of food or for clothing. There were only five data sets in this category; these provided sufficient information to determine that a seal measurement was, in fact, made (e.g. locations, numbers and/or dates given). The information is of limited use because their constant effort was directed toward whales, and not toward seals, natural history or exploration.

4.11 INCOMPLETE (INC)

Eight data sets are included in this category, and designated as "incomplete." The data are not available in published form, and the unpublished data could not be viewed for this catalogue. One of these data sets (77-0039) involved sightings by industry personnel, but the documentation could not be obtained. Two other data sets (85-0008, 85-0009) reflect studies in progress at the time of writing, and therefore information which is at present proprietary. Five data sets (77-0010, 78-0105, 79-0107, 80-0098, 81-0099) were not available for review, but the data will be published in 1986 by the Arctic Biological Station (T. Smith, pers. comm.). When the catalogue is revised and updated, these data should be available in published form and can be included.

5. GENERAL LAY-OUT OF THE CATALOGUE

The catalogue is organized into a chronological series of data sets beginning with the year 1826. Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which the 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 this series of catalogues; for example, a data set identified as 72-0009 is the same no matter where in the series reference to it is made (e.g. physical or chemical catalogues). If the data set contains observations made in several different years, then the last two digits of the year that the study started have been used. Data sets of voyages during the 1800's have been included; these are designated by a subscript 18 (e.g. $_{18}$yy-nnnn). Gaps may appear in the sequence of data set numbers in this catalogue for any particular year, because every data set does not appear in every catalogue.

This catalogue comprises three main tables followed by supporting figures and indices. Each table is preceded by an explanation of column headings. The Table 1 format has been standardized for all biological inventories. **Table 1** is a chronological list of data sets by data set number, and gives the general study parameters, the species observed, and the specific seal measurements made. Each measurement has been assigned to one of the following 11 measurement categories:

- Number;
- Identification;
- Morphometrics;
- Age;
- Reproduction;
- Food;
- Parasites/Predators;
- Movements;
- Behaviour;
- Physiology;
- Other/Habitat.

In addition, concurrent measurements are indicated by discipline (biology, chemistry, and physics). Concurrent biological measurements are indicated for taxonomic groups by measurement category. Taxonomic groups included are:

- Microbes;
- Phytoplankton;
- Zooplankton;
- Zoobenthos;
- Phytobenthos;
- Epontics;
- Anadromous fish;
- Marine fish;
- Birds;
- Cetaceans;
- Ice-associated mammals;
- Terrestrial mammals.

Concurrent chemical measurements are given for:

- Atmosphere;
- Ice;
- Water column;
- Suspended particulates;
- Sediment;
- Biota.

Concurrent physical measurements are given for:

- Ice;
- Atmosphere;
- Water column;
- Substrate.

Detailed information on study method(s) and sampling intensity was determined for each measurement in each data set. This information is presented by species, along with the method ratings, in **Table 2.**

Table 3 gives the specific times and locations where sampling was conducted for most data sets. If sampling co-ordinates were not specified, approximate positions were obtained by measuring plotted locations from figures given in the report.

Measurement locations are plotted on a series of **maps** prepared for bi-monthly periods in Section 9. The base map is a Lambert Conformal Conic projection with standard parallels of 71°N and 73°N, drawn to a scale of 1:4 680 000. Survey lines were digitized using a Tandy TRS-80 computer. The information was stored on a floppy disc, and then changed to ASCII format for the IOS Univac computer which plotted the information onto the maps. Locations of ice watches, shore watches, vessel watches and communities or camps where interviews occurred are also indicated on maps. To avoid confusion, only one data set is plotted on each map; some data sets required more than one map, since more than one type of survey was used,

and/or because the study extended over more than one two-month period. The maps are presented in chronological order. Data sets for which maps could not be prepared (insufficient information) are noted in Appendix 1.

Indices are provided in Section 10; the data sets have been indexed by: references with published results, measurement, geographic area, sampling method and species.

Two copies were made of most data sets references for this catalogue. One copy is located at the Freshwater Institute (c/o Mr. Larry de March), Winnipeg, Manitoba. The other copy is located at the Institute of Ocean Sciences (c/o Mr. Brian Smiley), Sidney, B.C. They are identified with the appropriate data set numbers for easy retrieval. Lengthy publications which were not copied are noted in Appendix 1.

5.1 USER'S GUIDE TO CATALOGUE

STEP 1

There are three indices (geographic, measurement and method) which will assist in a search for specific types of information in the catalogue (Section 10). They should be consulted when information is desired on a specific geographic area (e.g. want to know which studies were done, for example, in Kugmallit Bay), on a specific measurement (e.g. you want to know which studies involved a particular measurement, for example, axillary girth), or a specific method (e.g. which studies used, for example, a systematic aerial survey), respectively. Consult the index which lists the item of interest, and record the identification numbers of the data sets listed under the appropriate geographic area, measurement or method. A fourth index, the species index, is also provided in Section 10 and lists all data sets which contain information on a particular species.

STEP 2

The data set identification numbers now listed will focus your search through the catalogue tables, maps and list of references.

First, consult Table 1 entries for each data set number listed, to obtain general information on collecting and funding agencies, sampling areas and times, taxa reported, types of "seal" measurements made and concurrent measurements. This consultation may allow you to delete some data set identification numbers from your list which no longer meet your search criteria.

STEP 3

Consult Table 2 entries for each data set identification number still listed after Step 2, to obtain specific information on which measurements were made on which species, the number of samples, units, materials and methods, precision/accuracy, and an appraisal of the method used.

STEP 4

Refer to Table 3 entries for each data set number still listed after Step 2, to obtain specific information on sampling times and locations. If the spatial or temporal coverage is of interest, refer to the maps in Section 9 for those data set numbers listed.

STEP 5

Consult the Data Location/Reference List Index (Section 10), for citation of reports or publications which report the data set(s) of interest, and also for information on the form, location and availability of original data.

6. APPRAISAL OF STUDY METHODS

6.1 DEFINITION OF THE RATING SYSTEM

Study methodologies have been appraised according to a 5-level scale, defined as follows:

RATING SCORE	DEFINITION
0	Data are found or judged to be wrong.
1	Data are suspect and probably not internally consistent; trends or patterns within the data are likely not real.
2	Insufficient information is provided to assess the data; the data were not or could not be investigated.
3	Data are internally consistent; patterns or trends within the data are probably real but comparison with other data sets may be difficult or impossible.
4	Data are internally consistent and are sufficiently standardized or tied to a reference that comparison with other data at this rating score should be possible. Data may not be accurate in an absolute sense.

Because a "2" rating is not better than a "0" or "1" rating, the scheme is not truly hierarchical. Ignoring the 2 rating, however, the scheme is hierarchical (0, 1, 3, 4). The scheme is presented this way to provide continuity with other catalogues in the series.

The rating scheme is intended to be a guide to appraisal of study methodologies and not an absolute statement of data quality. An ideal rating system would use only objective rating criteria, but due to the nature of some biological measurements and observations, this is not always possible. Some measurements and observations involve a high level of subjective judgement or interpretation on the part of the investigator.

Furthermore, when the investigator is remote from an animal while making a measurement, much of the analysis is done by the human brain before any data is recorded.

6.2 BACKGROUND AND RATIONALE

In order to compare biological phenomena between areas, seasons, years or before and after environmental perturbations, it is necessary to ensure that the data collected in different areas or at different times are comparable. The only objective way to compare data is to ensure that the precision and accuracy of the measurements are the same.

Precision is the measure of the random variation in results; it can be expressed as a standard deviation (e.g. total length of pelt = 175 ±15 cm). The more precise the measurements, the closer together are repeated measurements of the same parameter on the same animal or structure. **Accuracy** is a measure of how close to the true value a measurement is. It is a measure of systematic variation in the results, for example a weight measurement may always be 1 kg too high if the scale is zeroed incorrectly.

In the physical and chemical sciences, multiple measurements are often easy to make to determine precision. To determine accuracy, standards are available, although relating chemical stnadards of one chemical composition to samples of a differing structure is often difficult. Physical and chemical laboratories develop sampling and analytical protocols and quality control procedures to ensure obtaining the best results possible.

Some biological measurements are simple physical measurements on organisms (e.g. weight, total length). Simple protocols and quality control procedures can ensure the precision and accuracy of such measurements.

Other biological measurements are observations or combinations of observations and instrument measurements. For example, to obtain a tusk length, one must first recognize the tusk (observation) and then measure it (instrument measurement). Since the recognition of a tusk could be somewhat subjective, and because researchers would not carry a reference tusk, there is a small amount of doubt about the measurement. Consequently, the rating of such data is also partially subjective.

The operational unit of the catalogue series is the "measurement." This is defined as a single determination of some variable, or if multiple determinations have been made, the mean value plus or minus the standard deviation. The measurement reflects what was actually recorded, such as the number of seals observed attending holes on an aerial transect line. It does not encompass derived values, such as density or abundance. A composite list of measurements is provided in Table 6.1.

Each measurement type in each data set has been appraised separately. First, appraisal criteria were established for each measurement type, the criteria being based on the judged ability of the researcher to produce repeatable accurate results; second, the investigator's methods were judged

by these criteria and a rating score from "0" to "4" applied. Because data are only as credible as the weakest "link" in the methodology, the overall score is the lowest of those assigned to the individual criteria.

It is fundamental to the rating scheme that the data be repeatable, not only by the original investigator, but also by anyone else wishing to repeat the measurements. For this to be possible, the original work would be performed in a consistent and defined manner, and the investigator would provide a complete and detailed description of all sampling and analytical methods. All terms and units would be defined without any vagueness or imprecision.

Completeness implies that enough data were collected to answer the question or test the hypothesis for which they were collected. For example, determination of the age of only ten seals would not be complete enough to describe the age structure of an area's seal population, even if all ten measurements were rated "4." Completeness and final use are independent of the quality of the data and have not been taken into account in the rating scheme. The rating achieved by particular data may, on the other hand, determine the purposes for which they can be used.

No matter how precise a measurement, if the sample is not representative of what exists in nature, the results can be useless for some applications. For example, one may count the number of seals hauled out on the ice surface from a given aircraft at a particular altitude and speed, succeed in counting all of the individuals present, and identify the species correctly. However, if the type of aircraft, speed and altitude disturb the seals such that an unknown proportion dive before they are counted, the sample will not represent the population actually in the area. The results will be of limited use in describing the seal population. Samples such as this could receive a "3" or "4" rating, though, if the documentation were sufficient for another investigator to repeat the measurement (under identical conditions) and produce comparable results. Ratings are assigned independent of representativeness.

The measurement "identification" has not been rated because it is totally subjective. Identification depends on the interpretation by the investigator of how well the organism fits a particular description or key. Correct identification of organisms is crucial to all other measurements, however, and this leads to the dilemma of possible 3- and 4-rated data being useless because identification of the organism was incorrect.

6.3 APPRAISAL OF STUDY METHODS USED TO MAKE SEAL MEASUREMENTS

The 170 seal measurements identified in this catalogue are listed in Table 6.1. To assign a rating to each measurement, the documented methods were scrutinized according to the specific criteria developed for that particular measurement. While some criteria are fundamental to the making of some measurements, the same criteria may be less important or irrelevant to others. Consequently, several different combinations of different criteria were required. For ease of use, the criteria are organized in chart form. In all, 21 rating charts were prepared. At the top of each chart is a list of the measurements to which it applies. The rating charts are

designated A though V, and are in Section 6.4. They are all presented to allow users of this catalogue to review an assigned rating, or to conduct an independent appraisal.

Some charts are more complex than others, simply due to the number of criteria. This reflects the fact that making some types of measurements is more involved than others. For example, the level of sophistication to attain a "4" for "# seals/location" in an aerial survey is much greater than that to obtain a "4" when measuring the presence or absence of a hauled-out seal, because the measurement is more complex. The former must meet many more criteria than the latter. However, given that each method meets all the criteria outlined in the appropriate chart, both could receive a "4" rating.

The accuracy of seal measurements is difficult to estimate, particularly those resulting from censuses or counts. This is because the actual proportion of seals present below the surface is never known. No seal measurements in this catalogue are rated "0" (data are wrong) because there are no absolute standards to which results can be compared to determine accuracy. There are no measurements which could be immediately identified as wrong, although some are suspected to be wrong. For example, "# seal lions/location" was probably based on the misidentification of a bearded seal, but there is no way of verifying this.

Each rating chart is organized into a sequence of questions, and the ratings depend on the user's response to each. The following terms are used on the rating charts, and hence defined here. A "platform" is the structure (e.g. boat, ice surface, airplane) from which the measuring instrument operates or is deployed. "Observation conditions" refer to the set of environmental parameters (e.g. sea state, ice cover precipitation, glare from sun) which affects the ability of the instrument to make measurements. "Sampling parameters" refer to the set of experimental parameters (e.g. speed and altitude of platform, time of day work conducted, transect width, etc.) which define the scope of the sampling program.

All but the last question on each chart are weighted equally, since the criterion represented by each question are considered fundamental to the making of the particular measurement. A response of "NOT ENOUGH INFORMATION" to any but the last question leads to a rating of "2." The final rating assigned to a measurement is the lowest value assigned to any of the questions. A discussion of the criteria in the charts is provided in Sections 6.3.1-6.3.13.

The answer to the last question on each chart, common to each measurement, determines whether a "3" or a "4" is assigned. It is worded:

> "Were the methods sufficiently standardized and/or tied to a reference to enable comparison with another data set?"

A "YES" response to this question leads to a rating of "4," while a "NO" or "NOT ENOUGH INFORMATION" leads to a "3." This last question is the most subjective of those on the charts, relying to a certain extent on the judgement of the assessor. For some measurements, however, published

"method standards" do exist (e.g. Scheffer 1967). The criteria were developed on the basis of experience, discussion with investigators and the standard references (Section 7).

Table 6.1
List of seal measurements

NUMBER	CROSS REFERENCE TO RATING CHARTS
# observed/location	C
# observed attending holes/location	A
# observed/aerial transect line	A
# observed/aerial transect line outer	A
# observed/aerial transect line inner	A
# observed attending holes/aerial transect line	A
# observed attending holes/aerial transect line outer	A
# observed attending holes/aerial transect line inner	A
# unattended holes/aerial transect line	A
# unattended holes/aerial transect line outer	A
# unattended holes/aerial transect line inner	A
# observed along ice crack/aerial transect line	A
# observed along ice crack/aerial transect line outer	A
# observed along ice crack/aerial transect line inner	A
# observed/vessel transect line	A
# /group	C
distance from aircraft	U
distance from vessel	U
# observed dead/location	B
# netted/location	C
# killed/location	B
# shot/location	D
# shot & lost	D
# shot & landed	D
# lairs/area searched	C
# lairs/timed dog search	C
distance to nearest birth lair complex	U
# pelts sold/community	E
# pelts traded/community	E
# holes/location	C
# skulls collected/location	D
IDENTIFICATION	
tag #	F
brand shape	F

Table 6.1
List of seal measurements (cont'd)

MORPHOMETRICS	CROSS REFERENCE TO RATING CHARTS
coat colour	G
pelt colour	G
tusk length	H
standard length	H
length	V
size	V
claws (p,a)	K
nose to hindflipper length	H
foreflipper length	H
foreflipper width	H
hindflipper length	H
hindflipper width	H
tail length	H
ear length	H
crown to rump length, foetus	H
backbone position	V
eye position	V
heart girth	H
axillary girth	H
maximum girth	H
total body weight	J
heart weight	J
liver weight	J
kidney weight	J
spleen weight	J
blubber thickness: neck	H
blubber thickness: chesk	H
blubber thickness: belly	H
intestine length	H
markings (p, a)	K
standard length: pelt	H
nose to hindflipper length: pelt	H
condylobasal length	H
basal length	H
occipitonasal length	H
zygomatic breadth	H
mastoidal breadth	H
braincase width (maximum)	H
interorbital breadth (minimum)	H
palatal length along median line	H
nasal length	H
nasal width at tip	H
basal distance at bullae	H
maxillary tooth row (length)	H
mandibular tooth row (length)	H
skin thickness	H

Table 6.1
List of seal measurements (cont'd)

AGE	CROSS REFERENCE TO RATING CHARTS
age class	V
# dentinal annuli: canines	L
# cementum annuli: canines	L
# claw annuli	L
degree of scarring (body)	V
canine cementum length	L
canine length	L
REPRODUCTION	
sex	V
genital structure	V
testes weight	J
testes length	H
bacula length	H
bacula weight	J
swollen vulva (p,a)	K
foetus (p,a)	K
breeding odour (p,a)	K
milk (p,a)	K
corpus luteum (p,a)	K
corpus albicans (p,a)	K
follicular activity (p,a)	K
scars on uterine horns (p,a)	K
corpus luteum diameter (maximum)	U
corpus albicans diameter (maximum)	U
# follicles (> 5 mm diameter)	C
FOOD	
relative stomach fullness	V
stomach contents (p,a)	K
stomach contents, wet weight	J
stomach contents, dry weight	J
stomach contents, volume	N
stomach contents, identification	N
fish in mouth (p,a)	K
fish on ice (p,a)	K
PARASITES/PREDATORS	
internal parasites (p,a)	K
identification of parasites	N
bear kill (p,a)	B

Table 6.1
List of seal measurements (cont'd)

PARASITES/PREDATORS (cont'd)	CROSS REFERENCE TO RATING CHARTS
carcass remains, weight	J
carcass length	H
tracks (p,a predator tracks)	K
# of tracks	C
excrement outside lair (p,a predator excrement)	K
blood on lair floor (p,a)	K
amount of blood on lair floor	V
MOVEMENTS	
heading	T
direction of movement relative to net	T
BEHAVIOUR	
haul-out on ice (p,a)	P
haul-out on land (p,a)	P
assoc. with birds (p,a)	P
assoc. with whales (p,a)	P
diving during fly-by (p,a)	P
synchronous diving (p,a)	P
porpoising (p,a)	P
distance between individuals	P
position in water	P
frozen-out (p,a)	K
vocalization rate	Q
vocalization frequency	Q
vocalization duration	Q
vocalization slope	Q
vocalization intensity	Q
suckling (p,a)	K
diving during approach by person (p,a)	K
digging at hole (p,a)	K
contact with buoys/cables (p,a)	P
in vicinity of buoys/cables (p,a)	P
diving during approach by vessel (p,a)	P
PHYSIOLOGY	
internal body temperature	R
relative bladder fullness	V
skin temperature	V
fat content, tissue	M
water content, whole body	M

Table 6.1
List of seal measurements (cont'd)

PHYSIOLOGY (cont'd)	CROSS REFERENCE TO RATING CHARTS
water content, fat-free tissue	M
protein content, fat-free tissue	M
protein content, whole body	M
caloric density, fat-free tissue	M
caloric density, whole body	M
moulting (p,a)	V
condition of pelt	V
OTHER/HABITAT	
selling price/pelt	S
distance to nearest associated lair	U
breathing hole diameter	U
snow depth at lair	U
lair height (maximum)	U
lair dimensions (maximum)	U
# of shots taken	D
seal holes (p,a)	K
# skins saved	B
lanugo (p,a)	K
entry hole (p,a holes made by predator)	K
entry hole, diameter	U
entry hole, angle	U
number of entry holes	C

6.3.1 DOCUMENTATION OF METHOD

One criterion, common to all measurements, is asked in the second to last question on each chart:

> "Was documentation of the method sufficient to permit another person of comparable ability to repeat the measurement?"

This question encompasses many ideas, including (1) was the data recorded at the time of the event and not recalled, (2) were all terms, units and procedures defined, (3) were the records kept a true reflection of the measurement made, and (4) were all details on the method provided? Satisfaction of each "subquestion" should lead to the measurement being repeatable, fundamental to any scientific investigation.

As an illustration, one might consider two different data sets which include the measurement "# seals observed/location," one resulting from a shore watch and the other from a systematic aerial survey. The shore watch received a rating of "4" for that measurement because details were provided about the size of the search area, how this was determined, the exact length of search time, the relative abilities of observers, observation

conditions, and how the sightings were localized, and because definitions for all terms and units were provided. The aerial survey program must document all of this detail, as well as plane speed, altitude, maintenance of transect width, etc. If, for example, no attempt was made to establish and maintain a prescribed transect width, then the measurement would have been rated "1" (i.e. a lower rating than the shore watch example). Even though censusing seals from an aircraft potentially provides more information than a census conducted from shore, in the absence of methodology details, a user of the data set cannot be certain of the reliability of results. While there are distinct shortcomings to consider when using a shore watch to census seals, a user of the data from the shore watch example described here would be able to understand fully those limitations, and use and interpret the data accordingly.

6.3.2 PERFORMANCE AND CALIBRATION OF INSTRUMENTS AND/OR OPERATORS

Perhaps the most fundamental criterion for the making of seal measurements is that the "instruments" perform at an optimum level and are calibrated. An "instrument" is defined here as that which is used to make the measurements (e.g. human eye, human ear, tape measure, trained dog, camera, weight scale, etc.). To make a particular measurement, often more than one "instrument" is used. Mechanical instruments (e.g. hydrophone, tape measure) also require a human "operator."

The concept of performance and/or calibration of the "instrument" appears in some form on all rating charts except D, E and G. Where it appears, it may be worded as "performance and calibration of instrument . . .?", or in some cases, more specifically as "was the investigator trained to [or capable of] . . .?". The charts where this concept does not appear involve measurements which are considered either too simple (and therefore it is unrealistic to require investigator be trained or calibrated, such as noting pelt colour), or by their nature, did not involve persons trained to make scientifiic measurements (e.g. records kept by hunting parties, fur export tax returns kept by traders).

Given the above definitions and introduction, one can now scrutinize how precise and accurate the measurements are likely to be. In the case of a human operating an analytical instrument, the following should be considered:

> Training of observer/operator: One cannot take for granted that a technician is capable of carrying out a particular procedure in his or her field. The responsible person has to ensure that the technician entrusted to perform the task is properly trained and carries out tasks according to protocol.
>
> Quality control and assessment: A mechanism to control errors and a program to ensure that that mechanism is in fact doing its job should be in place in any scientific operation. With such programs, precision and accuracy are maximized.

Operator consistency: Some operators are able to perform tasks with higher precision than are other operators. These differences should be noted in the statistics on the data produced.

Instrument calibration and standardization: This process determines the accuracy of measuring instruments and devices. The accuracy of the calibration is dependent on the accuracy of the standards used.

In cases where humans make observations, the following should be considered:

Observer's inherent ability: As with the operator of an analytical instrument, some observers are better than others. Some factors affecting this are visual acuity, field of vision, ability to withstand fatigue and probably others.

Observer's current state of well-being: Day-to-day variations in observations can occur for an individual, depending on a number of physical and psychological factors. Length of time in an isolated location, length of time spent working, lack of sleep, consumption of alcohol and other factors can affect the precision of observations. Individual agencies have to make their own decisions about how best to control these factors to ensure the best precision possible.

Observer's experience: When an observer gains experience, he will produce more precise data. Search images are intensified and fewer errors are made.

Quality of visual aids: Vision is affected by the quality of microscope, binoculars, etc.

Observer's training and experience: The training of an observer has to be such that he/she is able to identify something for what it really is, in addition to always calling a particular type of object the same thing (precision). Practice with an experienced observer is useful. The more experience the observer has, the more likely he is to make the correct observation.

Observer calibration: There is no method for determining the absolute accuracy of an observer. Nevertheless, attempts should be made to calibrate different observers since there will be differences in their respective abilities. The ideal test would be to compare an observer's results to a known standard; however, such a standard does not exist for most seal measurements. The practical solution to this is to test observers relative to one another. Calibration of observers is particularly important for measurements requiring a high level of skill, such as counting seals from an aircraft. For other measurement, such as noting the presence/absence of haul-out behaviour, observer variability is unlikely to introduce bias into the results.

6.3.3 OBSERVATION CONDITIONS

Charts A, C, P, T, U involve seal measurements (observations) made from an aircraft or vessel. For each measurement on these charts, it is important that a precise and accurate record of environmental conditions during the observation period be kept. The concept of observation conditions includes (where applicable) wind speed and direction, precipitation, sea state, cloud ceiling, amount of glare and visibility.

Usually minimum standards for such conditions are set at the start of a program, and no measurements are attempted if the minimum conditions are not met. However, even within the range of acceptable conditions, the "sightability" of seals varies. Environmental conditions may also affect the proportion of time that seals spend hauled-out on the ice surface. This affects many of the measurements made from aircraft and vessels. At the present time, it is difficult to determine correction factors to apply for different observation conditions, but appropriate data are slowly being obtained by researchers in the field.

6.3.4 SAMPLING PARAMETERS

Measurements taken from aircraft and vessels require a detailed record of the type of craft used, its altitude and speed, and size of area searched, in order to appraise data reliability (required for Charts A, C, T). The maintained altitude affects the length of time it takes to "recognize" a seal. Speed of craft and size of search area affect the length of time a point is in view and so affect the possibility of seeing a seal. Viewing is easier from some types of aircrafts and vessels than from others. The type of craft used, distance from the seal (altitude), and speed affect the amount of noise produced, and thus, can affect seal behaviour.

6.3.5 ON-SITE EXAMINATION

For some types of measurements, there are many different platforms from which the sampling can be conducted. Each platform and instrument has inherent disadvantages and advantages. The choice of a particular platform or instrument is usually based on a compromise between program objectives, cost, availability and practicality. The catalogues do not appraise the choice of a given platform or instrument per se, by comparing it with other available platforms or instruments (e.g. use of Platform A does not guarantee a higher rating than use of Platform B).

The only exception to this is if a platform or instrument was used which was unquestionably inappropriate (e.g. visual observation from plane to measure the girth of an animal, tusk length, etc.). In such cases, an on-site examination is required. While being "on-site" is inherent in the making of some types of measurements (e.g. body weight), some measurements can, in theory, be made either remotely (e.g. from an aircraft) or in direct contact with the animal (e.g. "on-site"). Where this criterion appears (charts B, G, H, K, R), it stipulates that an "on-site" examination is required.

6.3.6 IDENTIFICATION OF HUNTING PARTY, TIME AND DATE OF HUNTING EVENT (CHART D)

This criterion requires that the details surrounding a hunting event be provided (time, place, etc.). Without such information, the data concerning number of animals shot is of no biological value, although it may be useful from a socio-economic perspective.

6.3.7 SOURCE OF PELTS OR SOURCE OF QUOTES

Information on the source of pelts (Chart E) and source of quoted selling prices (Chart S) must be provided. With respect to pelts, harvest statistics must be explained as to what they do and do not include. For example, it is necessary that hunters, communities and the percent of the take which was kept for domestic purposes be identified, for the data to have any biological applicability.

Similarly, price quotes for pelts must be discussed with respect to source, limitations and variations. Price information can be of interest biologically if such documentation is provided, since it may serve as an indirect indicator of hunting pressure on the population at certain localities and at certain times.

6.3.8 RECOGNIZING TAG/BRAND AND INTEGRITY OF TAG/BRAND (CHART F)

Three tag and brand programs involving ringed seals were conducted in the region in the early 1970's. Later, a hunter shot and retrieved a seal which had been marked during that work. On Chart F, the questions probe whether, in fact, the person who found the marked animal was capable of recognizing the mark, and if the pelt itself had maintained sufficient integrity for accurate determination of the brand shape.

6.3.9 PRESERVATION (CHARTS J, L, M, N)

Whenever a carcass, tissue or organ is preserved for subsequent analysis, the method and details of this preservation must be specified. Since different preservation methods may have a range of effects on sample integrity, information on preservation is necessary to interpret results.

6.3.10 DETAILS ON CAPTIVITY (CHART R)

Measurements made on captive animals require that the circumstances surrounding the captivity be provided. Such circumstances include place and time of capture, method of capture, handling time, length of captivity, and a description of the captive environment. All of this information is necessary for intepretation of measurements made on captive animals.

6.3.11 YAW OF AIRCRAFT, COMPASS REFERENCE POINTS (CHART T)

Yaw of an aircraft, or the deviation from the intended heading, must be recorded to obtain accurate data on the direction of travel of seals. Observers usually record an animal's heading relative to the aircraft's heading. This assumption is correct only with calm conditions, or when

flying directly into or with the wind. Furthermore, compass points are exact units only if the reference point (true north or magnetic north) is indicated.

6.3.12 CHECKING FOR BEHAVIOURS/ATTRIBUTES (CHARTS K, P, V)

There are many measurements which involve an observer noting the presence or absence of an attribute or behaviour. Not only must the observer be trained to recognize the attribute or behaviour, but he/she must also consistently check and note its presence or absence with each sampling effort (be it continuously during a survey, or during each and every post-mortem). Furthermore, these types of measurements are particularly susceptible to personal interpretation unless each term is defined as a precise series of actions. For example, "synchronous diving" and "porpoising" behaviours involve some but not all of the same actions.

6.3.13 VOCALIZATION MEASUREMENTS (CHART Q)

Recording seal vocalizations requires appropriate choice and calibration of hydrophones and recorders. Also, if a signal is to be recognized, there must be a favourable signal-to-noise ratio. The critical value of this depends on the uniqueness and strength of the signal, and the hearing sensitivity and discriminating ability of the listener. Ambient noise levels must be monitored to assess masking effects. The maximum range for an array configuration used must be determinated and not exceeded.

6.4 RATING CHARTS

The criteria for the appraisal are organized in 21 charts presented in this section.

CHART A

MEASUREMENTS:

observed attending holes/location
observed/aerial transect line
observed/aerial transect line outer
observed/aerial transect line inner
observed attending holes/aerial transect line
observed attending holes/aerial transect line outer
observed attending holes/aerial transect line inner
unattended holes/aerial transect line
unattended holes/aerial transect line outer
unattended holes/aerial transect line inner
observed along ice crack/aerial transect line
observed along ice crack/aerial transect line outer
observed along ice crack/aerial transect line inner
observed/vessel transect line

Q.1 Were minimimum and acceptable **observation conditions** established, stated and maintained, and were deviations from these measured so they could be (or were corrected for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Were attempts made to ensure optimum **performance** and **calibration** of the **"instruments"** used to make the measurements, and if deviations occurred, were they measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were all **sampling parameters** established, stated, and maintained, and if deviations occurred, were they measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART B

MEASUREMENTS:

observed dead/location
killed/location
bear kill (by-pass Q.2)
skulls collected/location (by-pass Q.1)

Q.1 Was a **visual** (on-site) **inspection** conducted by a trained observer, and was sufficient documentation provided to verify the **animal** was, in fact, **dead?**

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Were attempts made to ensure optimum **performance** and **calibration** of the **instrument** used to determine the sampling location, and if deviations occurred, were these measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART C

MEASUREMENTS:

observed/location
#/group (omit Q.1)
holes/location
lairs/area searched
lairs/timed dog search
of tracks (omit Q.1)
# of entry holes (omit Q.1)
netted/location
follicles (omit Q.1, Q.3)

Q.1 Were attempts made to ensure optimum **performance** of the **instruments** used to localize the sightings, and were any deviations from this level of performance measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was the investigator **trained** specifically to recognize the attribute and make the appropriate count?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were all **sampling parameters** stated, and were variations of these measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were minimimum and acceptable **observation conditions** established, stated and maintained, and were deviations from these measured so they could be (or were corrected for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.6 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART D

MEASUREMENTS:

shot/location
shot & lost
shot & landed
of shots taken

Q.1 Was the hunting party **identified,** and the **date and location** of the hunting event recorded?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART E

MEASUREMENTS:

pelts sold/community
pelts traded/community
skins saved

Q.1 Does the data set define the **source of the pelts,** and what proportion of the total take was sold or traded?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was **documentation** on the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART F

MEASUREMENTS:

tag # brand shape

Q.1 Was the person examining the branded or tagged animal capable of **recognizing a tag or brand** as such?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was the pelt of sufficient **integrity** that the original brand shape or tag # was maintained and recognizable?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART G

MEASUREMENTS:

coat colour
pelt colour

Q.1 Was the observation made during an **on-site** visual **examination?**

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Did the investigator record colour of the pelt or coat against a **standard colour chart?**

YES (4) | NO (1) | NOT ENOUGH INFO (2)

CHART H

MEASUREMENTS:

tusk length
standard length
nose to hindflipper length
foreflipper length
foreflipper width
hindflipper length
hindflipper width
tail length
ear length
crown to rump length, foetus
heart girth
axillary girth
maximum girth
blubber thickness: neck
blubber thickness: chest
blubber thickness: belly
intestine length
standard length, pelt
nose to hindflipper length, pelt
condylobasal length
basal length
occipitonasal length
zygomatic breadth
mastoidal breadth
braincase width (maximum)
interorbital breadth (minimum)
palatal length, median line
nasal length
nasal width at tip
basal distance at bullae
maxillary tooth row (length)
mandibular tooth row (length)
skin thickness
testes length
bacula length
carcass length

Q.1 Was the **measurement made directly** on the animal, carcass, organ or structure?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was the measurement made by an investigator specifically **trained** to do so?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART J

MEASUREMENTS:

total body weight
heart weight
liver weight
kidney weight
spleen weight
testes weight
bacula weight (by-pass Q.2)
stomach contents, wet weight (by-pass Q.2)
stomach contents, dry weight (by-pass Q.2)
carcass remains, weight (by-pass Q.2)

Q.1 If the carcass, organ or stomach contents were **preserved,** was the method of doing so stated?

YES — NO (2)

Q.2 Were there allowances made for **blood loss,** and if not, was this stated?

YES — NO (1)

Q.3 Was optimum **performance** and **calibration** of the **instrument** used to weigh the animal, organ or stomach contents ensured?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.4 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.5 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) — NO (3) — NOT ENOUGH INFO (3)

CHART K

MEASUREMENTS:

claws
markings
swollen vulva
foetus
breeding odour
milk
corpus luteum
corpus albicans
follicular activity
scars on uterine horns
stomach contents
fish in mouth
fish on ice
tracks
excrement outside lair
blood on lair floor
frozen out
suckling
digging at hole
diving during approach by person
lanugo
entry hole
seal holes
internal parasites

Q.1 Was the measurement made during an **on-site** visual **examination?**

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was the investigator **trained** specifically to check for the presence or absence of the attribute?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was the attribute **checked for at each sampling effort,** and its presence/absence consistently recorded?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART L

MEASUREMENTS:

dentinal annuli: canines
cementum annuli: canines (by-pass Q.3)
claw annuli

canine cementum length (by-pass Q.3)
canine length (by-pass Q.3)

Q.1 Was the specific **tooth** or **claw** from which the measurement was made **identified** and stated?

YES — NO (2)

Q.2 Were different teeth/claws from the same jaw/flipper examined, and were the tooth/claw sections **re-examined** by at least one other investigator?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.3 Were either # dentinal annuli or # claw annuli measured on animals **beyond 10 years** of age?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.4 Were attempts made to ensure optimum **performance** and **calibration** of the **instrument** used to make the measurement and were any deviations from this level of performance measured so they could be (or were) accounted for?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.5 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.6 Were the methods used sufficiently **tied to a reference** to enable comparison with another data set?

YES (4) — NO (3) — NOT ENOUGH INFO (3)

CHART M

MEASUREMENTS:

fat content, tissue
water content, whole body
water content, fat-free tissue
protein content, fat-free tissue
protein content, whole body
caloric density, fat-free tissue
caloric density, whole body

Q.1 If the bodies or tissues were **preserved,** were the methods of doing so stated?

YES | NO (2)

Q.2 Were attempts made to ensure optimum **performance** of the **instruments** used to make the measurements, and if deviations occurred, were they measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was the investigator specifically **trained** to make the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART N

MEASUREMENTS:

stomach contents, identification
identification of parasites
stomach contents, volume

Q.1 If the stomach contents or parasites were **preserved,** was the method of doing so stated?

YES — NO (2)

Q.2 Was the investigator specifically **trained** to make measurements of this type?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES — NO (1) — NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **tied to a reference** to enable comparison with another data set?

YES (4) — NO (3) — NOT ENOUGH INFO (3)

CHART P

MEASUREMENTS:

haul-out on ice
haul-out on land
assoc. with birds
assoc. with whales
diving during fly-by
synchronous diving
porpoising
distance between individuals
position in water
contact with buoys/cables
in vicinity of buoys/cables
diving during approach by vessel

Q.1 Were **observation conditions** acceptable to make the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was the investigator specifically **trained** to recognize and describe the attribute?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART Q

MEASUREMENTS:

vocalization rate
vocalization frequency
vocalization duration
vocalization slope
vocalization intensity

Q.1 Were the **frequency responses** of hydrophone and recorder linear across the full range of frequencies encountered?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Were the hydrophone(s) and recorder(s) **calibrated?**

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Was a **favourable signal to noise ratio** achieved?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were **ambient noise levels** monitored, and if they changed during the sampling program, were the masking effects and potential biases associated with this considered?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Was the **maximum range** for the array configuration determined and not exceeded?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.6 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.7 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART R

MEASUREMENT:
internal body temperature

Q.1 Was the measurement made on **live, captive animals,** and were the circumstances describing the captivity provided?

- YES
- NO (2)

Q.2 Were attempts made to ensure optimum **performance** of the **instrument** used to make the measurement, and if deviations occurred, were they measured so they could be (or were) accounted for?

- YES
- NO (1)
- NOT ENOUGH INFO (2)

Q.3 Was **documentation** on the method sufficient to permit another person of comparable ability to repeat the measurement?

- YES
- NO (1)
- NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** or **tied to a reference** to enable comparison with another data set?

- YES (4)
- NO (3)
- NOT ENOUGH INFO (3)

CHART S

MEASUREMENT:
selling price/pelt

Q.1 Was the **source** of the quoted selling price provided?

YES | NO (2)

Q.2 Were the **limitations** of this quote and any potential **variations** to it described?

YES (4) | NO (2)

Q.3 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART T

MEASUREMENTS:

heading
direction of movement relative to net

Q.1 Were all **sampling parameters** established, stated and maintained, and if deviations occurred, were they measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Were minimum and acceptable **observation conditions** established, stated and maintained, and were deviations from these measured so they could be (or were) corrected for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 If the observations were made from an aircraft and the units used were compass points, was the **yaw** of the aircraft recorded?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 If the units were compass points, was the **reference point** (true north or magnetic north) indicated?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Was the investigator **trained** to make the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.6 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.7 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART U

MEASUREMENTS:

corpus leuteum diameter (omit Q.2)
corpus albicans diameter (omit Q.2)
distance from aircraft
distance from vessel
breathing hole diameter (omit Q.2)
distance to nearest associated lair (omit Q.2)
distance to nearest birthlair complex (omit Q.2)
snow depth at lair (omit Q.2)
lair height (omit Q.2)
lair dimensions (max.) (omit Q.2)
entry hole diameter (omit Q.2)
entry hole angle (omit Q.2)

Q.1 Was the start and end point for the linear measurement stated and described?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Were minimimum and acceptable **observation conditions** established, stated and maintained, and were deviations from these measured so they could be (or were corrected for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were attempts made to ensure optimum **performance** and **calibration** of the **"instruments"** used to make the measurements, and if deviations occurred, were they measured so they could be (or were) accounted for?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.4 Was the investigator **trained** to make the measurements?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.5 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.6 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

CHART V

MEASUREMENTS:

backbone position
eye position
relative stomach fullness
relative bladder fullness
skin temperature
condition of pelt
amount of blood on lair floor
age class
sex
genital structure
degree of scarring
size
moulting
length

Q.1 Was the investigator **trained** specifically to recognize and describe the attributes, and attempt to do so with each sampling effort?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.2 Was **documentation** of the method sufficient to permit another person of comparable ability to repeat the measurement?

YES | NO (1) | NOT ENOUGH INFO (2)

Q.3 Were the methods used sufficiently **standardized** to enable comparison with another data set?

YES (4) | NO (3) | NOT ENOUGH INFO (3)

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8. DATA CATALOGUE TABLES

Data Catalogue Table 1: Summary Listing of Data Sets

Table 1 presents a summary listing of all of the data sets included in this catalogue. The information on each data set contained in this table is described below, by column.

Data Set I.D.

Each identification (I.D.) number is unique to a data set; all subsequent references to data sets are by I.D. numbers. The first two digits of the I.D. refer to the last two digits of the year during which the data were gathered; the last four digits of the I.D. is the identifier number for the data set. The subscript $_{18}$ indicates data sets obtained in the 1800's. The data sets are ordered chronologically, by year of study commencement.

Collecting Agency

The collecting agency was responsible for obtaining the data. If different from the collecting agency, the funding agency is given in parentheses. Original titles have been used. Known changes in agency names include:

U.S. Bureau of Land Management to U.S. Minerals Management Service;
Dept. of Naval Service to Dept. of National Defence;
Dept. of Northern Affairs & National Resources to Dep. of Indian Affairs and Northern Development to Indian and Northern Affairs Canada;
Dept. of Mines & Resources to Parks Canada Program, Environment Canada; and,
Imperial Oil Ltd. to Esso Resources Canada Ltd.

Collecting Period

The collecting period is the time actually spent within the limits of the region. If known, precise dates are given. If general timing was given instead of the precise date, then the level of information which was provided is shown in the table (e.g. "summer" or "May"). In cases where neither a precise date nor a general time frame was given, "NS" (not specified) appears.

Data sets are usually limited to information gathered in one year. The two exceptions are: extended cruises in the region with the same crew and the same objectives, and historic publications which contain material summarized from several sources with no indication of when specific information was obtained.

Area

Subregions where the measurements were made are listed in this column. Specific locations are given in parentheses, and shown on Figure 2.1.

Taxa Reported

The species to which the measurements pertain are indicated in this column. Abbreviations for each species are:

RS ringed seal (*Phoca hispida*)
BS bearded seal (*Erignathus barbatus*)
UP unidentified pinniped (species not given)
WA walrus (*Odobenus rosmarus*)
HB harbour seal (*Phoca vitulina*)
HA harp seal (*Phoca groenlandica*)
HD hooded seal (*Cystophora cristata*)
FS northern fur seal (*Callorhinus ursinus*)
SL northern sea lion (*Eumetopias jubatus*)

Seal Measurements or Observations

This column contains the specific types of seal measurements recorded. The information is listed according to 11 categories: Number, Identification, Morphometrics, Age, Reproduction, Food, Parasites/Predators, Movements, Behaviour, Physiology and Other/Habitat. Within each category, the specific measurements or observations (parameters) are given. If there was any doubt whether a data set contained information on a parameter (because the data were examined only in report form), the parameter has been included.

Concurrent Measurements

"Non-seal" measurements obtained during a study are indicated here, and are listed according to discipline: biology, chemistry, and physics. Concurrent biological measurements are given by taxonomic group and measurement categories. Concurrent physical measurements are given for atmosphere, ice, water column, suspended particulates, sediment and biota. Concurrent chemical measurements are given for ice, atmosphere, water column and substrate.

Remarks

The purpose of the study, if other than making seal measurements or observations, has been indicated in this column. Series of data sets have also been indicated. Numbered "notes" used in this table are explained below:

Note 5. Samples collected and in storage; analysis incomplete at time this inventory prepared.

Note 13. Data sets unavailable for review in this inventory, and not available in published form at time of writing.

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1826-0001	British Admiralty	July 05 - Aug. 30	Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay, Dolphin and Union Strait	UP	Number # observed/location	Phytoplankton Number Zoobenthos Number Fish - Anadromous Number Identification Fish - Marine Number Identification Birds Number Identification Age Reproduction Behaviour Cetaceans Number Identification Movements Behaviour Ice-Associated Mammals Number Identification Food Behaviour Terrestrial Mammals Number Identification Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Temperature Salinity Current Speed Current Direction Depth Water Level Wave Climate	Exploration
1848-0001	British Admiralty	Aug. 03-22	Tuktoyaktuk Shelf, Amundsen Gulf	UP	Number # shot/location	Fish - Marine Number		Atmosphere Wind Speed	Searching for Franklin Expedition

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1848-0001 (cont'd)					Food fish on ice	Identification Birds Number Identification Reproduction Movements Behaviour Cetaceans Number Identification Age Ice-Associated Mammals Number Identification Behaviour Terrestrial Mammals Number Identification Food Behaviour		Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Salinity Current Speed Current Direction Depth Wave Climate	
1862-0001	United States National Museum	Spring - Summer 1862 - 1865	Franklin Bay	WA HA	Number # observed/location # shot/location Identification Age age class Behaviour haul-out on ice diving during approach by person	Cetaceans Number Identification Ice-Associated Mammals Number Identification Age Reproduction Food Terrestrial Mammals Number Identification Age			Natural History

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1826-0001	British Admiralty	July 05 - Aug. 30	Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay, Dolphin and Union Strait	UP	Number # observed/location	Phytoplankton Number Zoobenthos Number Fish - Anadromous Number Identification Fish - Marine Number Identification Birds Number Identification Age Reproduction Behaviour Cetaceans Number Identification Movements Behaviour Ice-Associated Mammals Number Identification Food Behaviour Terrestrial Mammals Number Identification Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Temperature Salinity Current Speed Current Direction Depth Water Level Wave Climate	Exploration
1848-0001	British Admiralty	Aug. 03-22	Tuktoyaktuk Shelf, Amundsen Gulf	UP	Number # shot/location	Fish - Marine Number		Atmosphere Wind Speed	Searching for Franklin Expedition

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1862-0001 (cont'd)						Reproduction Food			
1890-0001	Mary D. Hume	Aug. 20, 1890 - Aug. 26-27, 1892	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Mackenzie Bay	UP WA	Number # observed/location # shot & landed Identification	Fish - Anadromous Number Identification Fish - Marine Number Identification Birds Number Identification Food Cetaceans Number Identification Morphometrics Ice-Associated Mammals Number Identification Reproduction Food Behaviour Terrestrial Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Temperature Salinity Depth	Whaling
1893-0002	Newport	Aug. 21, 1893 - Sep. 03, 1896	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Mackenzie Bay	BS	Number # observed/location Identification Morphometrics size	Fish - Marine Number Birds Number Identification Reproduction Cetaceans		Atmosphere Wind Speed Wind Direction Precipitation Temperature Ice Thickness	Whaling

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1893-0002 (cont'd)						Number Identification Morphometrics Age Food Movements Behaviour Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification		Coverage Type	
1894-0001	University of Iowa	June 29 Aug. 30-31	Mackenzie Shelf, Mackenzie Bay	UP	Number # shot & landed	Fish Number Identification Birds Number Identification Age Reproduction Behaviour Ice-Associated Mammals Number Identification Age Reproduction Behaviour Terrestrial Mammals Number Identification Age Reproduction			Natural History

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1894-0001 (cont'd)						Food Behaviour			
1894-0002	Navarch	Aug. 19, 1894 - Aug. 27, 1896	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	UP	Number # shot & landed	Fish - Marine Number Morphometrics Birds Number Identification Movements Cetaceans Number Identification Morphometrics Movements Ice-Associated Mammals Number Identification Behaviour Terrestrial Mammals Number Identification Morphometrics		Atmosphere Wind Speed Wind Direction Precipitation Temperature Ice Thickness Coverage Type Water Column Salinity Current Speed Current Direction Depth	Whaling
1897-0001	Beluga	Aug. 15, 1897 - Sep. 1899	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Mackenzie Bay	UP	Number # shot/location Morphometrics coat colour claws	Fish - Anadromous Number Identification Morphometrics Fish - Marine Number Identification Birds Number Identification		Atmosphere Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Depth	Whaling

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
1897-0001 (cont'd)						Morphometrics Reproduction Cetaceans Number Identification Morphometrics Age Reproduction Behaviour Ice-Associated Mammals Number Identification Age Terrestrial Mammals Number Identification			
00-0001	Bowhead	Aug. 05, 1900 - Aug. 14, 1901	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	UP	Number # shot & landed	Fish - Marine Number Morphometrics Birds Number Identification Reproduction Movements Cetaceans Number Identification Morphometrics Ice-Associated Mammals Number Identification Terrestrial Mammals Number		Atmosphere Wind Speed Wind Direction Precipitation Temperature Ice Salinity Thickness Coverage Type Water Column Depth	Whaling

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
00-0001 (cont'd)						Identification Morphometrics			
03-0002	Bowhead	Aug. 16, 1903 - Aug. 18, 1906	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	UP	Number # shot/location	Fish - Marine Number Morphometrics Birds Number Identification Movements Cetaceans Number Identification Morphometrics Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification Morphometrics		Atmosphere Wind Speed Wind Direction Precipitation Temperature Ice Thickness Coverage Type Water Column Depth Wave Climate	Whaling
08-0003	American Museum of Natural History	July 23, 1908 - May 5, 1912	Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay, Dolphin and Union Strait Prince Albert Sound	RS BS UP WA	Number # observed/location # shot/location # shot & landed # observed attending holes/ location Identification Morphometrics length size maximum girth total body weight	Fish - Anadromous Number Identification Morphometrics Age Reproduction Fish - Marine Number Identification Morphometrics Age Reproduction		Atmosphere Wind Direction Atm. Conditions Ice Thickness Coverage Type	Natural History

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
08-0003 (cont'd)					Reproduction sex Behaviour haul-out on ice	Birds Number Identification Morphometrics Age Reproduction Food Movements Behaviour Cetaceans Number Identification Morphometrics Age Parasites Movements Behaviour Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour Terrestrial Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour			

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
11-0002	National Museum of Canada, Dept. of Mines and Resources	NS	Mackenzie Shelf (Herschel Island)	WA	Number # shot/location Identification				
13-0001	Canadian Arctic Expedition of 1913-1918 (for Dept. of Naval Service)	Mar. 31, 1914 - Sep. 1916	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Franklin Bay, Prince of Wales Strait	UP	Number # observed/location # shot & lost # shot & landed Identification Morphometrics total body weight Age age class Other/Habitat seal holes	Phytoplankton Number Identification Zooplankton Number Identification Fish - Anadromous Number Identification Food Birds Number Identification Food Behaviour Cetaceans Number Identification Movements Behaviour Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Movements Behaviour Terrestrial Mammals		Atmosphere Wind Speed Wind Direction Precipitation Temperature Ice Thickness Salinity Coverage Water Column Temperature Salinity Current Speed Current Direction Depth Transparency Water Level Wave Climate	Natural History

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
13-0001 (cont'd)						Number Identification Morphometrics Age Reproduction Food Movements Behaviour			
14-0004	National Museum of Canada, Dept. of Mines and Resources	Oct.	Yukon Coast	WA	Number # shot/location Identification				
14-0005	National Museum of Canada, Dept. of Mines and Resources	"some years prior to 1914"	Dolphin and Union Strait	WA	Number # observed/location Identification				
14-0006	National Museum of Canada, Dept. of Mines and Resources	Sep. 26	Dolphin and Union Strait	RS	Number # killed/location Identification Morphometrics pelt colour condylobasal length basal length occipitonasal length zygomatic breadth mastoidal breadth braincase width (max.) interorbital breadth (min.) palatal length, median line nasal length nasal width at tip basal distance at bullae maxillary tooth row				

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
14-0006 (cont'd)					mandibular tooth row skin thickness				
24-0003	National Museum of Canada, Dept. of Mines and Resources	NS	Mackenzie Bay (Mackenzie Delta)	HA	Number # netted/location Identification				
26-0005	National Museum of Canada, Dept. of Mines and Resources	Summer	Mackenzie Shelf, Mackenzie Bay (Herschel Island, Mackenzie Delta)	HB HA	Number # netted/location Identification Age age class				Biological Survey
27-0006	National Museum of Canada, Dept. of Mines and Resources	Apr. 1927 - Feb. 1928	Mackenzie Bay, Kugmallit Bay (Mackenzie Delta)	RS	Number # netted/location # shot & lost # shot & landed Identification	Cetaceans Number Identification Ice-Associated Mammals Number Identification Food Movements Terrestrial Mammals Number Identification Age Reproduction Food Parasites Movements			Biological Survey
31-0007	National Museum of Canada, Dept. of Mines and Resources	Winter 1931-1932 Summer 1931	Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay	BS WA HD	Number # observed/location # shot/location Identification	Cetaceans Number Identification Ice-Associated Mammals			Biological Survey

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
31-0007 (cont'd)			(Herschel Island, Mackenzie Delta, Baillie Islands)		Behaviour haul-out on ice	Number Identification Food Movements Terrestrial Mammals Number Identification Age Reproduction Food Parasites Movements			
40-0010	St. Roch	Aug. 11-27 Sep. 19, 1940 - Aug. 13, 1941	Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Dolphin and Union Strait, Minto Inlet, Prince of Wales Strait	BS UP	Number # observed/location # shot/location # shot & lost # shot & landed Identification	Fish - Marine Number Birds Number Identification Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Movements Terrestrial Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Type Water Column Current Speed Current Direction Depth Water Level Wave Climate	RCMP Patrol
40-0011	Hudson Bay Company	1940 - 1972	Holman (Cape Parry)	RS	Number # pelts traded/community Identification	Ice-Associated Mammals Number Identification Other			Fur Sales

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
42-0002	Lands, Parks & Forests Branch, Canada, Dept. of Mines and Resources	July 10 - Oct. 20	Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay (Herschel Island, Baillie Islands, Banks Island)	WA HD	Number # shot/location Identification	Birds Number Identification Age Cetaceans Number Identification Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification Food			Natural History
51-0002	Cancolim II	Aug. 15 - Sep. 19	Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	BS UP	Number # observed/location # skulls collected/location Identification	Phytoplankton Zooplankton Cetaceans Number Identification Ice-Associated Mammals Number Identification		Atmosphere Ice Thickness Coverage Water Column Temperature Salinity	Oceanographic Cruise
51-0025	Canadian Wildlife Service	Oct. 01	Mackenzie Bay	FS	Number # shot/location Identification Morphometrics standard length tail length ear length total body weight Reproduction genital structure				

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
51-0025 (cont'd)					Parasites/Predators internal parasites identification of parasites				
52-0008	National Museum of Canada (for Defense Res. Bd., Dept. of Northern Affairs & National Resources, & Arctic Institute of N. America)	May 10 - Aug. 29	Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Prince of Wales Strait	RS BS UP	Number # observed/location # /group # observed dead/location # shot/location # skulls collected/location Identification Morphometrics standard length size Age Reproduction sex genital structure Behaviour haul-out on ice	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Movements Behaviour Other Terrestrial Mammals Number Identification Morphometrics Age Reproduction Movements Behaviour Other		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Conditions Thickness Coverage Type Water Column Depth Water Level Wave Climate	Biological/Geological Survey
52-0028	Canadian Wildlife Service	Spring	Prince Albert Sound	WA	Number # shot/location Identification				
53-0013	University of Alberta	July 29 - Aug. 16	Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Prince Albert Sound	RS BS	Number # observed/location # shot/location Identification	Birds Number Identification Age Reproduction Cetaceans Number			Natural History

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
53-0013 (cont'd)						Identification Age Reproduction Ice-Associated Mammals Number Identification Age Reproduction Terrestrial Mammals Number Identification Age Reproduction			
53-0028	National Museum of Canada (for Defense Res. Bd., Dept. of Northern Affairs & National Resources, & Arctic Institute of N. America)	May 15 - Sep. 01	Banks Island Shelf, Amundsen Gulf, Prince of Wales Strait	RS	Number # observed/location # killed/location Identification Age age class Behaviour haul-out on ice	Birds Number Identification Morphometrics Age Behaviour Other Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Movements Behaviour Other Terrestrial Mammals Number Identification Morphometrics		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Conditions Coverage Type	Biological/Geological Survey

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
53-0028 (cont'd)						Age Reproduction Movements Behaviour Other			
54-0003	Northwind	Aug. 09-14 Sep. 07-10	Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Prince of Wales Strait	RS BS	Number # observed/location Identification	Phytoplankton Number Identification Zooplankton Number Identification Zoobenthos Number Identification Phytobenthos Number Identification Fish - Anadromous Number Identification Fish - Marine Number Identification Cetaceans Number Identification	Water Nutrients	Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Thickness Coverage Water Column Temperature Salinity Depth Sound Velocity	Oceanographic
55-0010	Canadian Wildlife Service	Mar. 16 - July 23	Banks Island Shelf, Amundsen Gulf	RS BS UP	Number # observed/location # /group # shot/location # shot & lost Identification	Fish - Marine Number Identification Birds Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature	Biological Survey

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
55-0010 (cont'd)					Behaviour haul-out on ice	Morphometrics Age Behaviour Cetaceans Number Identification Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour Terrestrial Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Ice Salinity Thickness Coverage Type	
55-0038	Royal Canadian Mounted Police (G Division)	1955 - 1972	Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay,	RS BS WA	Number # shot & landed identification	Cetaceans Number Identification Ice-Associated Mammals Number Identification Terrestrial Mammals			Game Reports

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
55-0038 (cont'd)			Franklin Bay, Darnley Bay, Dolphin and Union Strait, Prince Albert Sound, Minto Inlet, Prince of Wales Strait			Number Identification			
58-0042	Canadian Wildlife Service	Oct. 16	Darnley Bay	FS	Number # shot/location Identification Morphometrics pelt colour standard length: pelt nose to hindflipper length: pelt				
58-0046	National Museum of Canada, Dept. of Mines and Resources	Aug. 19 Aug. 25	Yukon Coast (Herschel Island)	WA	Number # observed/location # shot/location Identification Morphometrics tusk length length total body weight				
59-0043	National Museum of Canada, Dept. of Mines and Resources	June - Sep. 4	Banks Island Shelf, Prince Albert Sound	WA	Number # shot/location Identification Age age class				

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
60-0064	Canadian Wildlife Service	NS	Banks Island Shelf	WA	Number # shot/location Identification				
62-0063	Northern Administration Branch, Indian and Northern Affairs	Summer	Tuktoyaktuk Shelf, Kugmallit Bay, Liverpool Bay (Eskimo Lakes, Cape Parry)	RS BS UP	Number # shot & landed Identification Other/Habitat # skins saved	Fish - Anadromous Number Identification Fish - Marine Number Identification Birds Number Identification Cetaceans Number Identification Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification			Economic Survey
62-0064	Canadian Wildlife Service	Summer	Banks Island Shelf	WA	Number # shot/location Identification				
63-0056	Canadian Wildlife Service	June 30 July 06	Banks Island Shelf, Prince Albert Sound	WA	Number # shot/location Identification Morphometrics standard length tusk length Reproduction				

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
63-0056 (cont'd)					genital structure Food stomach contents, identification				
64-0052	Canadian Wildlife Service	Mid-June Summer	Banks Island Shelf	WA	Number # observed/location identification				
64-0053	Dept. of Northern Affairs & National Resources	Aug. 04 - Sep. 21 Sep. - Dec.	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay (Eskimo Lakes, Herschel Island, Mackenzie Delta)	RS BS UP WA	Number # shot/location # netted/location # shot & lost # pelts sold/community identification Other/Habitat selling price/pelt	Fish - Anadromous Number identification Fish - Marine Number identification Birds Number identification Cetaceans Number identification Ice-Associated Mammals Number identification Terrestrial Mammals Number identification			Economic Survey
65-0058	Canadian Wildlife Service	Spring	Banks Island Shelf	WA	Number # observed/location identification				
65-0060	Dept. of Indian and Northern Affairs	June 23	Banks Island Shelf	RS BS	Number # observed/location				Economic Survey

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
65-0060 (cont'd)					# shot & lost # shot & landed Identification Morphometrics standard length Age age class Physiology condition of pelt Other/Habitat # of shots taken				
66-0058	Canada, Dept. of Indian Affairs and Northern Development (for Arctic and Alpine Committee, University of British Columbia and Dept. of Education, P.Q.)	Aug. - Sep. 1966 Dec. 1966 Jan. 1967	Banks Island Shelf	RS	Number # shot/location Identification Morphometrics standard length axillary girth maximum girth total body weight blubber thickness: chest Reproduction genital structure				Economic Survey
67-0007	University of Alberta	early May - July 1955 - 1966	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast, Liverpool Bay (Eskimo Lakes)	RS BS	Number # observed/location # /group Identification Reproduction breeding odour Behaviour haul-out on land	Birds Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature	Bird Study

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
67-0007 (cont'd)						Cetaceans Number Identification Ice-Associated Mammals Number Identification Age Behaviour Terrestrial Mammals Number Identification Movements Behaviour			
69-0017	Arctic Biological Station	July 01-18	Yukon Coast, Mackenzie Bay (East Mackenzie Bay)	RS	Number # observed/location Identification	Birds Number Identification Cetaceans Number Identification Morphometrics Age Movements Tag # Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Wave Climate	
69-0063	Staten Island (University of Alaska)	Aug. 05-10	Canada Basin, Mackenzie Shelf	RS	Number # observed/location # /group Identification	Birds Number Identification Ice-Associated Mammals Number Identification		Ice Thickness Coverage	Oceanographic data published in Kinney *et al.* (1970) and Burrell *et al.* (1970)

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
69-0063 (cont'd)						Age Reproduction Food Behaviour			
71-0100	Government of Northwest Territories	July 01, 1971 - June 30, 1972	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			Fur Export Tax Returns
71-0101	Canadian Wildlife Service	Mar. 29 - May 05	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Yukon Coast, Amundsen Gulf	RS BS	Number # killed/location Identification Age # cementum annuli: canines # claw annuli Reproduction genital structure Parasites/Predators carcass remains, weight	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	Polar Bear Study
71-0102	Arctic Biological Station (for Polar Continental Shelf Project)	Aug. 16-19	Mackenzie Shelf (Herschel Island)	RS	Number # netted/location # killed/location Identification tag # brand shape Morphometrics standard length maximum girth			Atmosphere Wind Speed Water Column Wave Climate Colour	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
71-0102 (cont'd)					Age # dentinal annuli: canines # claw annuli Reproduction genital structure Movements direction of movement relative to net Physiology moulting				
71-0105	Arctic Biological Station	Mar. - June	Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair complex Identification Age # claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair floor amount of blood on lair floor Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.)	Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
71-0105 (cont'd)					distance to nearest assoc. lair lanugo entry hole entry hole, diameter entry hole, angle # of entry holes				
71-0106	Arctic Biological Station	NS	Holman	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth total body weight blubber thickness: chest Age # claw annuli Reproduction genital structure bacula length corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter) Food stomach contents, wet weight stomach contents, volume stomach contents, identification	NS		NS	
72-0099	Government of Northwest Territories	July 01, 1972 - June 30, 1973	Holman, Inuvik, Paulatuk,	RS UP	Number # pelts sold/community Identification	Ice-Associated Mammals Number Identification			See 71-0100

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0099			Sachs Harbour, Tuktoyaktuk		Other/Habitat selling price/pelt	Other Terrestrial Mammals Number Identification Other			
72-0100	Canadian Wildlife Service	Jan. 21-22	Amundsen Gulf	RS	Number # observed/location Identification Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope	Ice-Associated Mammals Number Identification Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	
72-0101	Canadian Wildlife Service	Mar. 27 - May 01	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS WA	Number # killed/location Identification Age # cementum annuli: canines # claw annuli Reproduction genital structure Parasites/Predators carcass remains, weight Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101
72-0102	Canadian Wildlife Service	June 10 - Sep. 10	Banks Island Shelf, Amundsen Gulf	RS BS	Number # observed/location # observed dead/location	Ice-Associated Mammals Number Identification			

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0102 (cont'd)					# shot & landed Identification Morphometrics standard length maximum girth Age # cementum annuli: canines Reproduction genital structure corpus luteum corpus albicans follicular activity	Age			
72-0103	Canadian Wildlife Service and Arctic Biological Station	Apr. 18 - June 06	Amundsen Gulf	RS	Number # killed/location Identification Morphometrics total body weight Age age class Reproduction genital structure Parasites/Predators carcass length Behaviour frozen out suckling Physiology fat content, tissue water content, fat-free tissue water content, whole body protein content, fat-free tissue protein content, whole body	Ice-Associated Mammals Number Identification Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0103 (cont'd)					caloric density, fat-free tissue caloric density, whole body				
72-0104	Arctic Biological Station	May 31 - June 16, June 20-23	Amundsen Gulf, Prince Albert Sound, Minto Inlet	RS BS	Number # observed/location # /group distance from aircraft Identification Age age class Behaviour haul-out on ice suckling	Ice-Associated Mammals Number Identification Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Snow Cover Extent of Leads Extent of Ridging	
72-0105	Arctic Biological Station	Aug. - Sep.	Amundsen Gulf (Cape Parry)	BS	Number # netted/location # killed/location Identification Morphometrics maximum girth Age age class Reproduction genital structure Physiology moulting				
72-0106	Arctic Biological Station	Mar. - June	Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair	Ice-Associated Mammals Number Identification Age Reproduction		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions	See 71-0105

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0106 (cont'd)					complex Identification Age # claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair flood amount of blood on lair floor Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.) distance to nearest assoc. lair lanugo entry hole entry hole, diameter entry hole, angle # of entry holes	Food Behaviour		Ice Coverage Type	
72-0107	Arctic Biological Station	NS	Sachs Harbour	BS	Identification Morphometrics standard length	NS		NS	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0107 (cont'd)					crown to rump length, foetus maximum girth total body weight blubber thickness: chest Age # claw annuli Reproduction genital structure bacula length corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter) Food stomach contents, wet weight stomach contents, volume stomach contents, identification				
72-0108	Arctic Biological Station	NS	Holman	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth blubber thickness: chest Age # claw annuli Reproduction genital structure corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.)	NS		NS	See 72-0014 and 78-0017 in Vol. 2 (Beaufort Sea: Chemical Oceanography)

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
72-0108 (cont'd)					# follicles (>5 mm diameter)				
73-0018	Arctic Biological Station	July 24-28 Sep. 17-20	Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay (East Mackenzie Bay)	RS	Number \# shot/location Identification	Birds Number Identification Cetaceans Number Identification Morphometrics Age Reproduction Movements Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	
73-0025	Canadian Wildlife Service	Mar. 31 - Apr. 25	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	BS	Number \# killed/location Identification Morphometrics coat colour standard length nose to hindflipper length heart girth blubber thickness: neck blubber thickness: chest blubber thickness: belly heart weight liver weight kidney weight spleen weight intestine length Age	Cetaceans Number Identification Movements Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
73-0025 (cont'd)					# cementum annuli: canines degree of scarring Reproduction genital structure				
73-0116	Government of Northwest Territories	July 01, 1973 - June 30, 1974	Aklavik, Holman, Inuvik, Paulatuk, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
73-0121	Arctic Biological Station	Mar. - June	Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair complex Identification Age # claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair floor amount of blood on lair floor Behaviour vocalization rate	Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0105

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
73-0121 (cont'd)					vocalization frequency vocalization duration vocalization slope Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.) distance to nearest assoc. lair lanugo entry hole entry hole, diameter entry hole, angle # of entry holes				
73-0122	Arctic Biological Station	NS	Holman	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth blubber thickness: chest Age # claw annuli Reproduction genital structure corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter)	NS		NS	See 72-0014 and 78-0017 in Vol. 2 (Beaufort Sea: Chemical Oceanography)
74-0029	Canadian Wildlife Service (for Beaufort	June 19-28	Continental Slope, Mackenzie Shelf,	RS BS	Number # observed/aerial transect	Cetaceans Number		Atmosphere Wind Speed	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
74-0029 (cont'd)	Sea Project)		Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay		line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Identification Age Movements Behaviour Ice-Associated Mammals Number Identification Age Movements Behaviour		Wind Direction Precipitation Atm. Conditions Ice Coverage Type	
74-0030	Arctic Biological Station	July 13 - Aug. 01 Sep. 09-16	Mackenzie Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay (East Mackenzie Bay)	RS	Number # observed/location # shot/location Identification brand shape Behaviour assoc. with whales	Birds Number Identification Cetaceans Number Identification Morphometrics Age Reproduction Movements Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Precipitation Atm. Conditions Ice Coverage Type	See 73-0018

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
74-0030 (cont'd)						Morphometrics Terrestrial Mammals Number Identification			
74-0053	Canadian Wildlife Service	Mar. 22 - May 09	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # killed/location Identification Morphometrics coat colour standard length nose to hindflipper length heart girth total body weight blubber thickness: neck blubber thickness: chest blubber thickness: belly Age # cementum annuli: canines # claw annuli degree of scarring Reproduction genital structure testes weight testes length bacula weight bacula length swollen vulva foetus breeding odour milk corpus luteum corpus albicans follicular activity	Cetaceans Number Identification Movements Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
74-0053 (cont'd)					scars on uterine horns Food relative stomach fullness stomach contents stomach contents, wet weight stomach contents, volume stomach contents, identification Behaviour vocalization rate vocalization frequency vocalization duration Physiology relative bladder fullness moulting Other/Habitat breathing hole diameter				
74-0108	Government of Northwest Territories	July 01, 1974 - June 30, 1975	Holman, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
74-0109	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS BS	Number # shot/location Identification Morphometrics standard length nose to hindflipper length axillary girth				

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
74-0109 (cont'd)					blubber thickness: neck blubber thickness: chest blubber thickness: belly Age # cementum annuli: canines Reproduction genital structure corpus luteum corpus albicans follicular activity				
74-0110	Arctic Biological Station (for Beaufort Sea Project)	Aug. 23 - Sep. 09	Darnley Bay (Cape Parry)	RS	Number # netted/location # killed/location Identification Morphometrics maximum girth Age age class Reproduction genital structure Physiology internal body temperature moulting				
74-0115	Arctic Biological Station	Mar. - June	Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair complex Identification Age # cementum annuli: canines	Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0105

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
74-0115 (cont'd)					# claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair floor amount of blood on lair floor Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.) distance to nearest assoc. lair lanugo entry hole entry hole, diameter entry hole, angle # of entry holes				
75-0043	Beak Consultants Ltd. (for Canadian Marine Drilling Ltd.)	July 17-31 Aug. 14-24	Tuktoyaktuk Shelf	RS BS	Number # observed/location distance from vessel identification	Zoobenthos Number Identification Fish Number Identification	Water Metals Nutrients pH Sediment Hydro-	Water Column Temperature Salinity Turbidity	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0043 (cont'd)						Movements Birds Number Identification Movements Cetaceans Number Identification Movements	carbons Metals Dissolved Oxygen Biota Metals		
75-0045	Canadian Wildlife Service (for Beaufort Sea Project)	June 12-20	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Age Movements Behaviour Ice-Associated Mammals Number Identification Age Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 74-0029
75-0047	Arctic Biological Station	July 10-28	Mackenzie Shelf, Amundsen Gulf,	RS	Number # observed/location	Birds Number		Atmosphere Wind Speed	See 73-0018

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0047 (cont'd)			Yukon Coast, Mackenzie Bay, Kugmallit Bay (Eskimo Lakes, East Mackenzie Bay)		Identification Behaviour haul-out on ice diving during fly-by	Identification Behaviour Cetaceans Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour Ice-Associated Mammals Number Identification Age Food Behaviour		Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Wave Climate	
75-0048	LGL Ltd. (for Beaufort Sea Project)	May 09 - July 09	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS UP WA	Number # observed/location Identification	Birds Number Identification Movements Cetaceans Number Identification Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	Bird Study
75-0050	F.F. Slaney & Co. Ltd.	June 23 - Aug. 07	Continental Slope,	UP	Number	Fish		Atmosphere	White Whale Study

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0050 (cont'd)	(for Imperial Oil Ltd.)		Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay (Eskimo Lakes, East Mackenzie Bay)		# observed/location Identification	Number Birds Number Identification Cetaceans Number Identification Morphometrics Age Reproduction Food Movements Behaviour Ice-Associated Mammals Number Identification Terrestrial Mammals Number Identification Age Reproduction		Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	
75-0071	Canadian Wildlife Service	Apr. 02 - May 10	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # killed/location Identification Morphometrics coat colour standard length nose to hindflipper length heart girth maximum girth blubber thickness: neck blubber thickness: chest blubber thickness: belly	Cetaceans Number Identification Movements Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0071 (cont'd)					Age # cementum annuli: canines # claw annuli degree of scarring Reproduction genital structure bacula weight bacula length swollen vulva foetus breeding odour milk corpus luteum corpus albicans follicular activity scars on uterine horns Food relative stomach fullness stomach contents stomach contents, wet weight stomach contents, volume stomach contents, identification Parasites/Predators carcass remains, weight Behaviour vocalization rate vocalization frequency vocalization duration digging at hole Physiology relative bladder fullness moulting Other/Habitat breathing hole diameter	Movements Behaviour			

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0124	Government of Northwest Territories	July 01, 1975 - June 20, 1976	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	RS BS	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
75-0125	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS BS	Number # shot/location Identification Morphometrics standard length axillary girth blubber thickness: neck blubber thickness: chest blubber thickness: belly Age # cementum annuli: canines Reproduction genital structure corpus luteum corpus albicans follicular activity				See 74-0109
75-0126	Renewable Resources Consulting Ltd. (for Canadian Arctic Gas Study Ltd. & Alaska Arctic Gas Study Co.)	June 08-20 Oct. 20	Mackenzie Shelf, Mackenzie Bay	RS BS	Number # observed/aerial transect line # /group distance from aircraft Identification	Ice-Associated Mammals Number Identification Age Reproduction		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0132	Arctic Biological Station	Mar. - June	Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair complex Identification Age # cementum annuli: canines # claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair floor amount of blood on lair floor Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.) distance to nearest assoc. lair lanugo entry hole entry hole, diameter	Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0105

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
75-0132 (cont'd)					entry hole, angle # of entry holes				
75-0133	Arctic Biological Station	NS	Holman	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth total body weight blubber thickness: chest Age # cementum annuli: canines # claw annuli canine cementum length canine length Reproduction genital structure bacula length corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter)	NS		NS	
76-0028	Canadian Wildlife Service (for Beaufort Sea Project)	June 16-20	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial	Cetaceans Identification Age Movements Behaviour Ice-Associated Mammals Number Identification Age Movements		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 74-0029

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
76-0028 (cont'd)					transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Behaviour			
76-0029	Arctic Biological Station	July 02-18	Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay (East Mackenzie Bay)	RS BS	Number # observed/location Identification Behaviour haul-out on ice	Fish - Anadromous Number Birds Number Identification Cetaceans Number Identification Morphometrics Age Movements Behaviour Terrestrial Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Depth Wave Climate	See 73-0018
76-0031	F.F. Slaney & Co. Ltd. (for Imperial Oil Ltd.)	July 21 - Aug. 04	Kugmallit Bay (Beluga Bay, Tuft Point)	RS	Number # observed/location distance from vessel Identification Behaviour vocalization rate	Birds Number Identification Cetaceans Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Water Column	White Whale Acoustic Study

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
76-0031 (cont'd)					vocalization frequency vocalization duration	Food Movements Behaviour		Depth	
76-0032	Marex (for Canadian Marine Drilling Ltd.)	July 20 - Oct. 16	Tuktoyaktuk Shelf	UP WA	Number # observed/location # /group distance from vessel # holes/location Identification Morphometrics coat colour length size markings Behaviour distance between individuals in vicinity of buoys/cables	Birds Number Identification Age Reproduction Movements Behaviour Cetaceans Number Identification		Atmosphere Precipitation Atm. Conditions Ice Coverage Type	
76-0104	Government of North-west Territories	July 01, 1976 - June 30, 1977	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
76-0105	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS	Number # shot/location Identification Age # cementum annuli: canines Reproduction				See 74-0109

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
76-0105 (cont'd)					genital structure corpus luteum corpus albicans follicular activity				
76-0106	Canadian Wildlife Service	Apr. 10 - May 02	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # killed/location Identification Morphometrics standard length heart girth Age # cementum annuli: canines degree of scarring Reproduction genital structure foetus corpus luteum corpus albicans follicular activity scars on uterine horns Parasites/Predators carcass remains, weight Physiology moulting	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101
76-0108	Arctic Biological Station	Mar. - June	Prince Albert Sound	RS	Number # observed/location # lairs/area searched # lairs/timed dog search distance to nearest birth lair complex Identification Age	Ice-Associated Mammals Number Identification Age Reproduction Food Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0105

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
76-0108 (cont'd)					# cementum annuli: canines # claw annuli Reproduction breeding odour Parasites/Predators carcass remains, weight tracks # of tracks excrement outside lair blood on lair floor amount of blood on lair floor Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope Other/Habitat breathing hole diameter snow depth at lair lair height (max.) lair dimensions (max.) distance to nearest assoc. lair lanugo entry hole entry hole, diameter entry hole, angle # of entry holes				
77-0036	Canadian Wildlife Service	June 12-21	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf,	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner	Cetaceans Number Identification Age Reproduction		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions	See 74-0029

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
77-0036 (cont'd)			Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay		# observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Movements Behaviour Ice-Associated Mammals Number Identification Age Reproduction Movements Behaviour		Ice Coverage Type	
77-0039	Canadian Marine Drilling Ltd.	July 14 - Oct. 27	Mackenzie Shelf, Tuktoyaktuk Shelf	INC	INC	Birds Number Identification Cetaceans Number Identification			See 76-0032, Note 13
77-0070	Canadian Wildlife Service	Apr. 30 - May 25	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # killed/location Identification Morphometrics coat colour standard length nose to hindflipper length heart girth maximum girth blubber thickness: neck	Cetaceans Number Identification Movements Ice-Associated Mammals Number Identification Morphometrics Age Reproduction		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
77-0070 (cont'd)					blubber thickness: chest blubber thickness: belly Age age class # cementum annuli: canines # cementun annuli: premolars # claw annuli degree of scarring Reproduction genital structure swollen vulva foetus breeding odour milk corpus luteum corpus albicans follicular activity scars on uterine horns Food relative stomach fullness stomach contents stomach contents, wet weight stomach contents, volume stomach contents, identification Parasites/Predators bear kill carcass remains, weight Physiology moulting	Parasites Movements Behaviour			
77-0108	Government of Northwest Territories	July 01, 1977 - June 30, 1978	Holman, Paulatuk, Sachs Harbour	RS UP	Number # pelts sold/community Identification	Ice-Associated Mammals Number Identification			See 71-0100

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
77-0108 (cont'd)					Other/Habitat selling price/pelt	Other Terrestrial Mammals Number Identification Other			
77-0109	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS	Number # shot/location Identification Age # cementum annuli: canines Reproduction genital structure corpus luteum corpus albicans follicular activity				See 74-0109
77-0110	Arctic Biological Station	INC	Amundsen Gulf	INC	INC	INC		INC	Note 13
77-0111	Arctic Biological Station	NS	Amundsen Gulf (Cape Parry)	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth blubber thickness: chest Age # cementum annuli: canines # claw annuli canine cementum length canine length Reproduction genital structure bacula length	NS		NS	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
77-0111 (cont'd)					corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter)				
77-0112	Arctic Biological Station	NS	Holman	BS	Identification Morphometrics standard length crown to rump length, foetus maximum girth blubber thickness: chest Age # cementum annuli: canines # claw annuli canine cementum length canine length Reproduction genital structure corpus luteum corpus luteum diameter (max.) corpus albicans diameter (max.) # follicles (>5 mm diameter)	NS		NS	See 78-0017 in Vol. 2 (Beaufort Sea: Chemical Oceanography)
78-0015	Canadian Wildlife Service	June 13-25	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay,	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner	Cetaceans Number Identification Age Reproduction Movements Behaviour Ice-Associated Mammals Number		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 74-0029

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
78-0015 (cont'd)			Darnley Bay		# unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Identification Age Reproduction Movements Behaviour			
78-0027	Canadian Marine Drilling Ltd.	June 23 - Nov. 04	Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	RS BS UP WA HB	Number # observed/location # observed attending holes/ location # /group distance from vessel # holes/location Identification Morphometrics coat colour markings Parasites/Predators bear kill Behaviour haul-out on ice contact with buoys/cables in vicinity of buoys/cables	Birds Number Identification Age Reproduction Food Movements Behaviour Cetaceans Number Identification Ice-Associated Mammals Number Identification Reproduction Food Behaviour Terrestrial Mammals Number Identification Behaviour			See 76-0032

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
78-0102	Government of Northwest Territories	July 01, 1978 - June 30, 1979	Holman, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
78-0103	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS	Number # shot/location Identification Age # cementum annuli: canines Reproduction genital structure corpus luteum corpus albicans follicular activity				See 74-0109
78-0104	Canadian Wildlife Service	Apr. 19 - May 10	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # killed/location Identification Age # cementum annuli: canines # claw annuli Reproduction genital structure Parasites/Predators carcass remains, weight	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 71-0101
78-0105	Arctic Biological Station	INC	Amundsen Gulf	INC	INC	INC		INC	Note 13

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
79-0027	National Marine Fisheries Service, U.S. Dept. of Commerce	July 23 - Aug. 27	Banks Island Shelf, Amundsen Gulf, Yukon Coast, Kugmallit Bay, Liverpool Bay, Darnley Bay, Dolphin and Union Strait	RS BS	Number # observed/location # /group distance from vessel Identification	Cetaceans Number Identification Age Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	Vessel-of-opportunity
79-0028	Canadian Wildlife Service	June 15-29	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Age Reproduction Movements Behaviour Ice-Associated Mammals Number Identification Age Reproduction Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 74-0029
79-0030	Canadian Wildlife	Apr. 09 - May 07	Continental Slope,	RS	Number	Cetaceans		Atmosphere	See 71-0101

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
79-0030 (cont'd)	Service		Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast	BS	# killed/location Identification Age # cementum annuli: canines # claw annuli Reproduction genital structure Parasites/Predators carcass remains, weight	Number Identification Movements Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	
79-0031	Canadian Marine Drilling Ltd.	June 19 - Nov. 22	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast (McKinley Bay)	RS UP WA HB	Number # observed/location # /group distance from vessel Identification Morphometrics coat colour Age age class Movements heading Behaviour haul-out on ice	Fish Number Identification Birds Number Identification Age Reproduction Food Movements Behaviour Cetaceans Number Identification Ice-Associated Mammals Number Identification			See 76-0032
79-0033	LGL Ltd. (for Dome Petroleum Ltd.)	June 22 - Aug. 02	Amundsen Gulf, Franklin Bay	RS BS	Number # observed/location	Birds Number		Ice Coverage	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
79-0033 (cont'd)			(Cape Parry)		# observed/aerial transect line # /group distance from aircraft Identification Behaviour haul-out on ice	Identification Age Reproduction Behaviour Ice-Associated Mammals Number		Type	
79-0104	Government of Northwest Territories	July 01, 1979 - June 30, 1980	Aklavik, Holman, Paulatuk, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
79-0105	Canadian Wildlife Service	June - Aug.	Banks Island Shelf, Amundsen Gulf	RS	Number # shot/location Identification Age # cementum annuli: canines				See 74-0109
79-0106	MacLaren Marex Inc. (for Dome Petroleum Ltd.)	Sep. 25-27	Mackenzie Shelf, Amundsen Gulf, Prince of Wales Strait	RS BS	Number # observed/location # /group Identification Behaviour diving during approach by vessel	Birds Number Identification		Ice Thickness Coverage Type	
79-0107	Arctic Biological Station	INC	Amundsen Gulf	INC	INC	INC		INC	Note 13

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0019	National Marine Fisheries Service, U.S. Dept. of Commerce (for Bureau of Land Management, U.S. Dept. of Interior)	July 21 - Sep. 13	Canada Basin, Continental Slope, Mackenzie Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay	RS BS	Number # observed/location # observed/aerial transect line # /group Identification	Cetaceans Number Identification Morphometrics Age Movements Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	Bowhead Whale Tagging Study
80-0021	Cascadia Research Collective and National Marine Mammal Laboratory, National Marine Fisheries Service	Aug. 20 - Sep. 09	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Yukon Coast, Mackenzie Bay	RS BS	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Age Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	Bowhead Whale Study
80-0022	Naval Ocean Systems Center (for Bureau of Land Management, U.S. Dept. of Interior)	July 28 - Oct. 24	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast (Herschel Island)	RS BS	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Ice Coverage Type Water Column Wave Climate	Bowhead Whale Study
80-0023	Canadian Marine Drilling Ltd.	May 29 - Oct. 13	Continental Slope, Mackenzie Shelf,	RS BS	Number # observed/location	Birds Number			See 76-0032

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0023 (cont'd)			Tuktoyaktuk Shelf	UP WA HB	# /group distance from vessel Identification Morphometrics coat colour Age age class Movements heading Behaviour haul-out on ice	Identification Cetaceans Number Identification Movements Behaviour			
80-0024	Canadian Wildlife Service (for Dome Petroleum Ltd., Arctic Islands Offshore Production Committee and Dept. of Indian and Northern Affairs)	June 21 - July 09	Amundsen Gulf, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0025	LGL Ecological Research Assoc. Inc., New York Zoological Society, & Polar Research Laboratory Inc. (for Bureau of Land Management, U.S. Dept. of Interior)	July 31 - Sep. 13	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS	Number # observed/location # observed/aerial transect line # /group Identification Behaviour assoc. with birds assoc. with whales	Zooplankton Number Identification Morphometrics Age Birds Number Identification Behaviour Cetaceans Number Identification Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Salinity Depth Wave Climate	Bowhead Whale Behaviour Study
80-0026	LGL Ltd. (for Dome Petroleum Ltd.)	Aug. 06 - Sep. 04	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS	Number # observed/aerial transect line # /group distance from aircraft Identification Movements heading Behaviour porpoising synchronous diving	Birds Number Identification Cetaceans Number Identification Morphometrics Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Coverage Type Water Column Wave Climate	Bowhead Whale Study
80-0027	Dome Petroleum Ltd.	July 20-24 Aug. 05-13 Aug. 26 - Sep. 01	Tuktoyaktuk Shelf, McKinley Bay	RS BS	Number # observed/location # observed/vessel transect line # /group	Birds Number Identification Age Reproduction		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0027 (cont'd)					distance from vessel Identification Morphometrics coat colour backbone position eye position Behaviour position in water	Food Movements		Ice Coverage Type	
80-0029	LGL Ltd. (for Esso Resources Canada Ltd.)	June 19 - Aug. 13	Mackenzie Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay (East Mackenzie Bay)	UP	Number # observed/aerial transect line	Birds Number Cetaceans Number Identification Morphometrics Age Reproduction Food Movements Behaviour Ice-Associated Mammals Number		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	See 75-0050
80-0095	Government of Northwest Territories	July 01, 1980 - June 30, 1981	Aklavik, Holman, Paulatuk, Sachs Harbour, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
80-0096	LGL Ltd. (for Dome Petroleum Ltd.)	June 11-28	Tuktoyaktuk Shelf	RS BS	Number # observed/location			Atmosphere Wind Speed	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0096 (cont'd)					# observed/aerial transect line # attended holes/aerial transect line # unattended holes/aerial transect line # observed along ice crack/ aerial transect line # /group distance from aircraft Identification Behaviour haul-out on ice			Wind Direction Precipitation Atm. Conditions Temperature Ice Coverage Type Extent of Ridging	
80-0097	LGL Ltd. (for Polar Gas Project)	June 25-26	Prince Albert Sound, Minto Inlet (Walker Bay)	RS	Number # observed/aerial transect line # attended holes/aerial transect line # unattended holes/aerial transect line # observed along ice crack/ aerial transect line # /group distance from aircraft Identification Behaviour haul-out on ice			Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Temperature Ice Coverage Type Extent of Ridging	
80-0098	Arctic Biological Station	INC	Amundsen Gulf	INC	INC	INC		INC	Note 13
80-0099	Canadian Wildlife Service	June 05 - Aug. 27	Amundsen Gulf, Tuktoyaktuk Shelf	RS BS	Number # observed/location	Birds Number		Atmosphere Wind Speed	Bird Study

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
80-0099 (cont'd)			(Baillie Islands, McKinley Bay)		# observed/aerial transect line distance from aircraft Identification	Identification Behaviour Cetaceans Number Identification Terrestrial Mammals Number Identification		Wind Direction Precipitation Atm. Conditions Ice Coverage Type	
81-0024	Canadian Wildlife Service (for Dome Petroleum Ltd., Esso Resources Canada Ltd. and Gulf Canada Resources Inc.)	June 15-22	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 80-0024
81-0025	Canadian Marine Drilling Ltd.	June 26 - Oct. 30	Mackenzie Shelf, Tuktoyaktuk Shelf	RS BS UP	Number # observed/location # /group	Fish Number Identification			See 76-0032

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
81-0025 (cont'd)				WA HB	distance from vessel Identification Morphometrics coat colour size markings Age age class Food fish in mouth Parasites/Predators bear kill Movements heading Behaviour haul-out on ice in vicinity of buoys/cables diving during approach by vessel	Birds Number Identification Age Reproduction Food Behaviour Cetaceans Number Identification Movements Ice-Associated Mammals Number Identification Age Movements			
81-0026	LGL Ltd. (for Sohio Alaska Petroleum Co., Dome Petroleum Ltd., Arco Alaska Inc., BP Alaska Exploration Inc., Chevron USA Inc., Exxon Co. USA, Phillips Petroleum Co., Shell Oil Co., State of Alaska, Esso Resources Canada Ltd., Gulf Canada Resources Inc.)	July 28 - Sep. 13	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS	Number # observed/aerial transect line # /group distance from aircraft Identification	Birds Number Identification Cetaceans Number Identification Morphometrics Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	See 80-0026

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
81-0027	LGL Ecological Research Assoc. Inc., New York Zoological Society, Polar Research Laboratory Inc. (for Bureau of Land Management, U.S. Dept. of Interior)	July 28 - Sep. 13	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS	Number # observed/location # observed/aerial transect line # /group Identification Behaviour assoc. with birds assoc. with whales	Zooplankton Number Identification Age Fish Number Identification Age Cetaceans Number Identification Morphometrics Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Salinity Depth Wave Climate	See 80-0025
81-0052	Naval Ocean Systems Center (for Bureau of Land Management, U.S. Dept. of Interior)	May 04 - Sep. 20	Mackenzie Shelf, Yukon Coast	RS BS	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Ice Coverage Type Water Column Wave Climate	See 80-0022
81-0097	Government of Northwest Territories	July 01, 1981 - June 30, 1982	Aklavik, Holman, Paulatuk, Tuktoyaktuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification			See 71-0100

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
81-0097 (cont'd)						Other			
81-0098	Canadian Wildlife Service (for Arctic Islands Operating Advisory Committee, Dept. of Indian and Northern Affairs and Dept. of Fisheries and Oceans	June 21 - July 10	Amundsen Gulf, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Precipitation Atm. Conditions Ice Coverage Type	
81-0099	Arctic Biological Station	INC	Amundsen Gulf	INC	INC	INC		INC	Note 13
82-0001	LGL Ltd. (for Esso Resources Canada Ltd., Dome Petroleum Ltd., and Gulf Canada Resources Inc.)	June 24 - July 09	Mackenzie Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay (East Mackenzie Bay)	UP	Number # observed/aerial transect line	Birds Number Identification Behaviour Cetaceans Number		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice	See 75-0050

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
82-0001 (cont'd)						Identification Age Food Movements Behaviour		Coverage Type Water Column Wave Climate	
82-0008	LGL Ecological Research Assoc. Inc. (for Minerals Management Service, U.S. Dept. of Interior)	Aug. 01-31	Mackenzie Shelf, Amundsen Gulf, Yukon Coast, Kugmallit Bay (East Mackenzie Bay)	RS BS	Number # observed/location # /group Identification Behaviour assoc. with birds assoc. with whales	Birds Number Identification Behaviour Cetaceans Number Identification		Atmosphere Wind Speed Precipitation Ice Coverage Type Water Column	See 80-0025
						Morphometrics Age Food Movements Behaviour		Wave Climate	
82-0009	LGL Ltd. (for National Marine Fisheries Service, U.S. Dept. of Commerce)	Aug. 12 - Sep. 05	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay	RS BS	Number # observed/location # /group Identification	Birds Number Identification Cetaceans Number Identification Morphometrics Age Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	Bowhead Whale Photographic Study
82-0010	ESL Environmental Sciences Ltd. (for Dome Petroleum Ltd., and Gulf Canada	Aug. 18 - Sep. 13	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf,	RS BS	Number # observed/location # observed/aerial transect line	Birds Number Identification Cetaceans		Atmosphere Wind Speed Wind Direction Precipitation	See 80-0026

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
82-0010 (cont'd)	Resources Inc.)		Yukon Coast		# /group distance from aircraft Identification Morphometrics coat colour Movements heading Behaviour assoc. with birds assoc. with whales synchronous diving	Number Identification Age Food Movements Behaviour		Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	
82-0011	Canadian Wildlife Service (for Dome Petroleum Ltd., Esso Resources Canada Ltd. & Gulf Canada Resources Inc.)	June 19-24	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 80-0024

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
82-0029	Canadian Marine Drilling Ltd.	June 23 - Sep. 12	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS UP WA HB HA	Number # observed/location # /group distance from vessel Identification Morphometrics length Age age class Parasites/Predators bear kill Behaviour haul-out on ice assoc. with birds in vicinity of buoys/cables	Birds Number Identification Age Reproduction Food Movements Behaviour Cetaceans Number Identification Movements Behaviour Ice-Associated Mammals Number Identification Movements Terrestrial Mammals Number Identification Movements			See 76-0032
82-0049	Naval Ocean Systems Center (for Minerals Management Service, U.S. Dept. of Interior)	Aug. 02 - Oct. 15	Canada Basin, Continental Slope, Mackenzie Shelf, Yukon Coast	RS BS	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Age Food Movements Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Depth Wave Climate	See 80-0022

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
82-0092	Government of Northwest Territories	July 01, 1982 - June 30, 1983	Holman, Paulatuk	RS UP	Number # pelts sold/community Identification Other/Habitat selling price/pelt	Ice-Associated Mammals Number Identification Other Terrestrial Mammals Number Identification Other			See 71-0100
82-0096	University of Alberta, Arctic Biological Station (for Dome Petroleum Ltd., Gulf Canada Resources Inc. and Dept. of Energy, Mines and Resources)	Apr. 20 - May 23	Amundsen Gulf, Prince of Wales Strait	BS	Identification Behaviour vocalization rate vocalization frequency vocalization duration vocalization slope vocalization intensity	Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	
83-0024	LGL Ecological Research Assoc. Inc. (for Minerals Management Service, U.S. Dept. of Interior)	Aug. 01 - Sep. 01	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay (East Mackenzie Bay)	RS BS	Number # observed/location # /group Identification Behaviour assoc. with birds assoc. with whales	Birds Number Identification Cetaceans Number Identification Morphometrics Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	See 80-0025
83-0026	Cascadia Research Collective (for National Marine Fisheries Service, U.S. Dept. of	Aug. 07 - Sep. 06	Canada Basin, Continental Shelf, Mackenzie Shelf, Banks Island Shelf,	RS BS	Number # observed/location # /group Identification	Birds Number Identification Cetaceans		Atmosphere Wind Speed Precipitation Ice	Bowhead Whale Photographic Study

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
83-0026 (cont'd)	Commerce)		Amundsen Gulf, Yukon Coast, Kugmallit Bay, Franklin Bay			Number Identification Morphometrics Age Movements Behaviour Ice-Associated Mammals Number Identification Age Movements Behaviour		Coverage Type Water Column Wave Climate	
83-0027	LGL Ltd. (for Environmental Studies Revolving Funds)	Aug. 19 - Sep. 11	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast	RS BS	Number # observed/location # observed/aerial transect line # /group distance from aircraft Identification Behaviour haul-out on ice assoc. with birds	Birds Number Identification Cetaceans Number Identification Age Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	See 80-0026
83-0028	Naval Ocean Systems Center (for Minerals Management Service, U.S. Dept. of Interior)	May 09 - Oct. 05	Canada Basin, Continental Slope, Mackenzie Shelf, Yukon Coast	UP	Number # observed/location # /group	Cetaceans Number Identification Morphometrics Age Food Movements Behaviour Ice-Associated Mammals		Atmosphere Wind Speed Wind Direction Precipitation Ice Coverage Type Water Column Wave Climate	See 80-0022

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
83-0028 (cont'd)						Number Identification		Colour	
83-0029	Canada, Dept. of Fisheries and Oceans (for Dome Petroleum Ltd. & Gulf Canada Resources Inc.)	June 16-27	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	See 80-0024
83-0030	Canadian Marine Drilling Ltd.	July 03 - Oct. 20	Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast (McKinley Bay)	RS BS UP WA HB SL	Number # observed/location # observed attending holes/ location # /group distance from vessel Identification Morphometrics coat colour	Birds Number Identification Food Behaviour Cetaceans Number Identification Movements			See 76-0032

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
83-0030 (cont'd)					size Age age class Reproduction sex Food fish in mouth Parasites/Predators bear kill Behaviour haul-out on ice contact with buoys/cables in vicinity of buoys/cables diving during approach by vessel	Behaviour Ice-Associated Mammals Number Identification Movements Age Behaviour			
83-0051	Naval Ocean Systems Center, Moss Landing Marine Laboratories, Okapi Wildlife Associates, SEACO, Inc., Greeneridge Sciences, Inc.	Aug. 19 - Sep. 26	Mackenzie Shelf, Mackenzie Bay, Yukon Coast	RS BS UP	Number # observed/location Identification	Birds Number Cetaceans Number Identification Morphometrics Food Movements Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Turbidity Transparency Wave Climate Colour	Bowhead Whale Study
84-0014	LGL Ecological Research Assoc. Inc. (for Minerals Management Service, U.S.	Aug. 01 - Sep. 03	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Yukon Coast,	RS BS	Number # observed/location # /group Identification	Birds Number Identification Cetaceans		Atmosphere Wind Speed Wind Direction Precipitation	See 80-0025

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
84-0014 (cont'd)	Dept. of Interior)		Mackenzie Bay		Behaviour assoc. with birds	Number Identification Morphometrics Age Food Movements Behaviour		Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	
84-0015	LGL Ltd. (for Indian and Northern Affairs Canada)	Aug. 14 - Sep. 14	Continental Shelf, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # observed/location # /group Identification	Birds Number Identification Cetaceans Number Identification Morphometrics Age Reproduction Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	Bowhead Whale Photographic Study
84-0016	PN Research Projects (for Canada, Dept. of Fisheries and Oceans)	July 05 - Aug. 02	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Yukon Coast, Kugmallit Bay (Shallow Bay)	RS BS	Number # observed/location # observed/aerial transect line # /group Identification Morphometrics coat colour Movements heading Behaviour haul-out on ice diving during fly-by	Birds Number Identification Cetaceans Number Identification Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
84-0017	ESL Environmental Sciences Ltd. and G.A. Borstad Ltd. (for Environmental Studies Revolving Funds and Indian and Northern Affairs Canada)	Aug. 18 - Sep. 18	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast	RS BS	Number # observed/location # observed/aerial transect line # /group distance from aircraft Identification Morphometrics coat colour Movements heading Behaviour assoc. with birds assoc. with whales synchronous diving	Birds Number Identification Cetaceans Number Identification Age Movements Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Turbidity Wave Climate Colour	See 80-0026
84-0018	Naval Ocean Systems Center (for Minerals Management Service, U.S. Dept. of Interior)	Sep. 11 - Oct. 24	Canada Basin, Continental Slope, Mackenzie Shelf, Yukon Coast	RS BS UP	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Age Food Movements Behaviour Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	See 80-0022
84-0019	U.S. National Marine Fisheries Service, National Marine Mammal Laboratory	Aug. 13-17	Continental Slope, Mackenzie Shelf, Yukon Coast	RS BS	Number # observed/location Identification	Cetaceans Number Identification Ice-Associated Mammals Number Identification		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
84-0019 (cont'd)								Coverage Type Water Column Wave Climate	
84-0020	Canadian Marine Drilling Ltd.	June 24 - Oct. 20	Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast (McKinley Bay)	RS BS UP WA	Number # observed/location # /group distance from vessel Identification Morphometrics coat colour tusk length Reproduction sex Parasites/Predators bear kill Behaviour haul-out on ice assoc. with birds in vicinity of buoys/cables	Birds Number Identification Movements Behaviour Cetaceans Number Identification Morphometrics Age Movements Behaviour Ice-Associated Mammals Number Identification Age Movements Behaviour			See 76-0032
84-0021	Canada, Dept. of Fisheries and Oceans (for Environmental Studies Revolving Funds)	June 15-20	Continental Slope, Mackenzie Shelf, Amundsen Gulf, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial	Cetaceans Number Identification Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
84-0021 (cont'd)					transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by				
85-0002	Canada, Dept. of Fisheries and Oceans	June 13-15	Banks Island Shelf, Amundsen Gulf, Prince Albert Sound, Minto Inlet, Prince of Wales Strait	RS BS	Number # observed/aerial transect line outer # observed/aerial transect line inner # observed attending holes/ aerial transect line outer # observed attending holes/ aerial transect line inner # unattended holes/aerial transect line outer # unattended holes/aerial transect line inner # observed along ice crack/ aerial transect line outer # observed along ice crack/ aerial transect line inner # /group Identification Behaviour diving during fly-by	Cetaceans Number Identification Age Movements Behaviour Ice-Associated Mammals Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
85-0003	PN Research Projects (for Environmental Studies Revolving Funds)	June 24 - July 24	Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Liverpool Bay, Franklin Bay, Darnley Bay (Cape Parry, Shallow Bay, Baillie Islands, East Mackenzie Bay)	RS	Number # observed/location # observed/aerial transect line # /group distance from aircraft Identification Behaviour haul-out on ice	Cetaceans Number Identification Morphometrics Age Food Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	See 80-0029
85-0004	Canada, Dept. of Fisheries and Oceans	July 17-31	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay, Franklin Bay, Darnley Bay (Shallow Bay, East Mackenzie Bay)	RS BS	Number # observed/aerial transect line # /group Identification	Cetaceans Number Identification Morphometrics Age Movements Other Ice-Associated Mammals Number Identification Age		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	White Whale Photographic Census Study
85-0005	PN Research Projects (for Indian and Northern Affairs Canada)	July 18-24	Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Kugmallit Bay	RS UP	Number # observed/aerial transect line # /group distance from aircraft Identification Behaviour	Cetaceans Number Identification Age Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage	Work done in assoc. with 85-0004

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
85-0005 (cont'd)					haul-out on ice assoc. with birds			Type Water Column Wave Climate Colour	
85-0006	ESL Environmental Sciences Ltd., G.A. Borstad Ltd., Cascadia Research Collective, PN Research Projects, and Arctic Laboratories Ltd. (for Environmental Studies Revolving Funds)	Aug. 18-25 Sep. 12-18	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay	RS BS	Number # observed/location # observed/aerial transect line # /group distance from aircraft Identification Morphometrics coat colour size Parasites/Predators bear kill Movements heading Behaviour haul-out on ice assoc. with birds	Birds Number Identification Cetaceans Number Identification Morphometrics Age Movements Behaviour Ice-Associated Mammals Number Identification Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Turbidity Wave Climate Colour	See 80-0026
85-0007	LGL Ltd. (for Indian and Northern Affairs Canada)	Aug. 18-31	Mackenzie Bay, Yukon Coast	RS BS	Number # observed/location # observed/vessel transect line # /group distance from vessel Identification Behaviour assoc. with whales	Zooplankton Number Identification Age Reproduction Food Fish Number Identification Age Cetaceans	Water Nutrients Chlorophyll Dissolved Oxygen	Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Temperature Salinity	Bowhead Whale Food Study, Note 5

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
85-0007 (cont'd)						Number Identification Age Movements Behaviour		Conductivity Depth Turbidity Wave Climate	
85-0008	Canadian Marine Drilling Ltd.	July - Oct.	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Kugmallit Bay (Herschel Island, McKinley Bay)	INC	INC	INC			See 76-0032, Note 5
85-0009	Canadian Wildlife Service	Apr. 15 - May 31	Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf	INC	INC	Ice-Associated Mammals Number Identification Morphometrics Age Reproduction Food Parasites Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type	Polar Bear Study See 71-0101, Note 5
85-0010	LGL Ltd. (for Sohio Alaska Petroleum, Amerada Hess, Amoco, Arco, British Petroleum, Chevron, Dome, Exxon, Marathon, Shell Western, Tenneco, Union, Canada, Depts. of Fisheries and Oceans, and Indian and	Aug. 01 - Sep. 14	Canada Basin, Continental Slope, Mackenzie Shelf, Tuktoyaktuk Shelf, Banks Island Shelf, Amundsen Gulf, Yukon Coast, Mackenzie Bay, Franklin Bay, Darnley Bay	RS BS UP	Number # observed/location Identification	Cetaceans Number Identification Morphometrics Age Reproduction Movements Behaviour Ice-Associated Mammals Number		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate	Bowhead Whale Photographic Study, Note 5

TABLE 1

DATA SET I.D.	COLLECTING AGENCY	COLLECTING PERIOD	AREA	TAXA REPORTED	SEAL MEASUREMENTS OR OBSERVATIONS	CONCURRENT MEASUREMENTS			REMARKS
						BIOLOGICAL	CHEMICAL	PHYSICAL	
85-0010 (cont'd)	Northern Affairs)		(Herschel Island)			Identification Age Movements Behaviour		Colour	
85-0011	Naval Ocean Systems Center (for Minerals Management Service, U.S. Dept. of Interior)	Aug. 01 - Oct. 31	Canada Basin, Continental Slope, Mackenzie Shelf, Yukon Coast	RS BS UP	Number # observed/location # /group Identification	Cetaceans Number Identification Morphometrics Age Reproduction Movements Behaviour		Atmosphere Wind Speed Wind Direction Precipitation Atm. Conditions Ice Coverage Type Water Column Wave Climate Colour	See 80-0022, Note 5

Data Catalogue Table 2: Seal Measurements, Sampling Intensity and Methodology, and Rating

Table 2 presents information on each of the specific measurements in each data set. Data sets are listed in order according to I.D. number; the earliest data sets are listed first. Information on the measurements contained in this table and specific abbreviations used is given below, by column.

Data Set I.D.

Each identification (I.D.) number is unique to a data set; all subsequent references to data sets are by I.D. numbers. The first two digits of the I.D. refer to the last two digits of the year during which the data were gathered; the last four digits of the I.D. is the identifier number for the data set. The subscript $_{18}$ indicates data sets obtained in the 1800's. The data sets are ordered chronologically, by year of study commencement.

Species

The species which were measured are indicated in this column. Abbreviations for each are:

RS ringed seal (*Phoca hispida*)
BS bearded seal (*Erignathus barbatus*)
UP unidentified pinniped (species not given)
WA walrus (*Odobenus rosmarus*)
HB harbour seal (*Phoca vitulina*)
HA harp seal (*Phoca groenlandica*)
HD hooded seal (*Cystophora cristata*)
FS northern fur seal (*Callorhinus ursinus*)
SL northern sea lion (*Eumetopias jubatus*)

Measurements

Specific measurements are listed for each species, and organized in the same order as in Table 1 (see Table 6.1 for composite list).

Units

This column indicates the unit(s) used as a standard when obtaining each measurement. All of the units used for each measurement are indicated; "or" has been used to separate different units. "NS" means the unit(s) was not specified. Slashes separate different parts of the same unit. Commas have been used between slashes to separate the different entities used for one part of a unit. Metric units have been abbreviated; Imperial units have been spelled out. "Description" has been used to indicate when a series of several entities has served as one unit. "Relative" indicates the use of imprecise units, such as "few," "many," "small," "large."

No. of Samples

This column indicates the number of data points obtained on each measurement for each species in each data set. "NS" means the number of samples was not specified. If more than one data point per measurement per seal was obtained, the number of seals sampled is given. The number of data points has been estimated in instances where only the minimum or the pooled number of data points is known. "A" means that the measurement was made on all samples.

Study Method

The method(s) used to make the seal measurment is (are) indicated. Every method known to have been used to obtain data on each measurement has been listed. Known details of the methods have been included. The notations for surveys are defined as follows:

RAS; W; X m; Y km/h; Z km = reconnaissance aerial survey
"W" type of aircraft used; flown at "X" altitude in metres; ground speed of "Y" kilometres per hour; transect width of "Z" kilometres.

RVS; M; N m; O km/h; P km = reconnaissance vessel survey
"M" type of vessel used; observation point "N" metres above sea level; speed of "O" kilometres per hour; transect width of "P" kilometres.

SAS; A; B m; C km/h; D km = systematic aerial survey
"A" type of aircraft used; flown at "B" altitude in metres; ground speed of "C" kilometres per hour; transect width of "D" kilometres.

Storage

Details of storage of tissues, teeth, claws, recordings or photographs are indicated. All known details are given. "AFA" refers to an alcohol-formalin-acetic acid solution. "NS" and "NA" mean that details about sample storage were not specified or not applicable, respectively.

Analysis

Techniques used to count tooth and claw annuli, to measure details on photographs, to examine reproductive tracts, or to analyze tape recordings are given in this column. Statistical analyses performed on the data are not indicated. "NS" and "NA" mean the method of analysis was not specified or not applicable, respectively.

Precision/Accuracy

If repeated measurements were made on a sample, the level of random error (precision) is indicated. If the technique was tested against a known standard, the level of systematic error (accuracy) is indicated. Approximations or estimations of the level of reliability of the data

(precision and accuracy) are given if available. For most measurements, no indication of either precision or accuracy is available ("NS" or not specified).

Rating

A rating has been assigned to each measurement in each data set, using the criteria outlined in the charts in Section 6.4. "NA" (not applicable) appears where a particular measurement was not rated (e.g. the measurement of identification to species). In instances where a "1" rating was assigned (failed one or more of the fundamental criteria), an explanatory "note" is given. Notes are also included for some measurements rated "2" or "3" where necessary to indicate why the measurement received that rating. Notes which apply to the rating are listed in the rating column only, and are defined below.

Note 25. Suspected misidentification of species (untrained observer or description given which suggests misidentification).

Note 26. Heading of animal given relative to direction of aircraft travel, not necessarily actual compass point.

Note 27. Measurement not made in conjunction with standard colour chart.

Note 28. On-site examination required, and observation made remotely.

Note 29. Sample size too small to allow comparison of observers.

Note 30. Imprecise or undefined units; location of sighting may be inaccurate.

Note 31. Measurement not calibrated against a known standard because one does not exist, and the measurement is one which can be particularly subject to investigator variability.

Note 32. Samples not analysed at time of writing, so appraisal not possible.

Note 33. Optimum performance and calibration of the instrument was not ensured or not stated.

Note 34. All sampling parameters were not provided.

Note 35. Insufficient information provided to determine repeatability of measurement.

Remarks

Additional comments referring to sampling intensity and/or methodology are given in this column. Comments are again indicated by numbered notes, as defined below.

Note 1. Samples measured in field, preserved, and measured again in laboratory.

Note 2. Number of samples had to be estimated because data pooled from several data sets or from several measurements.

Note 3. Seal measurements incidental to program objectives.

Note 4. Locations calculated using ground speed and elapsed time.

Note 5. Samples collected and in storage; analysis incomplete at time this inventory prepared.

Note 6. Number of distinct vocalizations for a given species not stated.

Note 7. Includes combination of seals collected by scientists, those killed by polar bears, and/or collected from hunter kills.

Note 8. Parameter noted if detected; may not necessarily have been checked for by all researchers in a given project (e.g. was not part of primary objective).

Note 9. Does not include pelts used for domestic purposes; and, actual number of pelts indicated has been rounded to nearest 500 and all communities combined (proprietary).

Note 10. Seals other than ringed seals; number of pelts included with ringed seal pelt totals.

Note 11. Seal measurements made only in instances when researchers not actively recording, photographing or observing another species (e.g. bowheads).

Note 12. Opportunities existed to make seal measurements, but none were made (seals not sighted).

Note 13. Data sets unavailable to review for this inventory and not available in published form.

Note 14. Most of project conducted in Alaskan waters; parts described here relate only to portion of work conducted in Canadian waters.

Note 15. Precision/accuracy was not stated *per se*, but wording implied uncertainty (e.g. "about," "probably," "at least," etc.).

Note 16. Each site had at least one vessel watch, many had 4-5 vessels per site.

Note 17. Seals taken during whaling or historical voyages, and usually taken for human consumption, dog food, or making tools, clothes, etc. Usually the number taken (no. of samples) was not indicated.

Note 18. Mean or average value given, for no. of samples.

Note 20. All communities combined; number of samples = max. number of years with records for community.

Note 22. Corrections made for differences among observers.

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
1826-0001	UP	# observed/location	seals/Lat. & Long., general	NS	RVS; 7.4 m and 8 m vessels; NS; NS; NS	NA	NA	±0.5' Lat. & Long.	2	
1848-0001	UP	# shot/location	seals shot/general	>2	RVS; barge; NS; NS; NS	NA	NA	NS	2	Note 17
		fish on ice	presence, fish on ice surface left by seals	NS	RVS; barge; NS; NS; NS	NA	NA	NS	3	
1862-0001	WA	# observed/location	walrus/general	NS	Shore watch	NA	NA	NS	2	
		identification	species	NS	Field examination	NA	NA	NA	NA	
		age class	young, dam	2	Field examination	NA	NA	NS	2	
		haul-out on ice	walrus on ice surface	NS	Field examination	NA	NA	NS	2	
		diving during approach by person	walrus enters water	NS	Field examination	NA	NA	NS	4	
	HA	# shot/location	seals/general	NS	Hunter interviews	NA	NA	NS	2	
		identification	species	NS	Field examination	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	NS	Field examination	NA	NA	NS	3	
1890-0001	UP	# observed/location	seals/general	NS	RVS; whaling vessel; NS; NS; NS	NA	NA	NS	2	
		# shot & landed	seals shot and retrieved	56	Hunted	NA	NA	NS	2	Note 17
	WA	# observed/location	walrus/general	NS	RVS; whaling vessel; NS; NS; NS	NA	NA	NS	2	
		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
1893-0002	BS	# observed/location	seal/general	NS	RVS; whaling vessel; NS; NS; NS	NA	NA	NS	2	
		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
		size	description	1	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
1894-0001	UP	# shot and landed	seals shot and retrieved	5	Hunter interviews	NA	NA	±1 seal	2	Note 17
1894-0002	UP	# shot & landed	seals shot and retrieved	4	Hunter interviews	NA	NA	NS	2	Notes 3,17
1897-0001	UP	# shot/location	seal shot/general	NS	RVS; whaling vessel; NS; NS; NS	NA	NA	NS	2	
		coat colour	hues	1	Field examination	NA	NA	NS	2	
		claws	description	1	Field examination	NA	NA	NS	2	
00-0001	UP	# shot & landed	seals shot and retrieved	NS	Whaler's records	NA	NA	NS	2	Notes 3,17
03-0002	UP	# shot/location	seals shot/miles from point of land	NS	Whaler's records	NA	NA	NS	2	Notes 3,17
08-0003	RS	# observed/location	seals/general	NS	RIS; on foot and by dog sled	NA	NA	NS	2	Note 15,17
		identification	species	NS	NS	NA	NA	NA	NA	
		length	inches	2	NS	NA	NA	NS	2	Note 18
		size	large, small	1	NS	NA	NA	NS	2	
		maximum girth	inches	1	NS	NA	NA	NS	2	
		total body weight	pounds	2	NS	NA	NA	NS	2	Note 18
		sex	male, female	1	NS	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	NS	Visual observation	NA	NA	NS	2	
	BS	# shot/location	seals shot/general	2	Hunted	1 photograph published	NA	NS	2	Note 17
		# observed/location	seals/general	NS	RIS; on foot and by dog sled	NA	NA	NS	2	
		# attended holes/ location	attended holes/general	NS	RIS; on foot and by dog sled	NA	NA	NS	2	
		identification	species	NS	NS	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
08-0003		total body weight	pounds	1	NS	NA	NA	NS	2	
(cont'd)		haul-out on ice	seal on ice surface	NS	Visual observation	NA	NA	NS	2	
	UP	# observed/location	seals/general	NS	RIS; on foot and by dog sled	1 photograph published	NA	NS	2	Note 17
		# shot/location	seals shot/general	>1	Hunted	1 photograph published	NA	NS	2	
		# shot & landed	seals shot and retrieved	NS	Hunted	1 photograph published	NA	NS	2	
	WA	# shot & landed	walrus shot and retrieved	NS	Hunted	1 photograph published	NA	NS	2	Note 17
		identification	species	NS	NS	1 photograph published	NA	NA	NA	
11-0002	WA	# shot/location	walrus shot/general	1	NS	NA	NA	NS	2	
		identification	species	1	NS	NA	NA	NA	NA	
13-0001	UP	# observed/location	seals/general, hundreds of miles from shore	NS	RIS; travel over ice with dog sled	NA	NA	±50 miles	2	Note 17
		# shot & lost	seals shot and not retrieved	NS	Hunted	NA	NA	NS	2	
		# shot & landed	seals shot and retrieved	7	Hunted	NA	NA	NS	2	
		age class	young	1	Field examination	NA	NA	NS	2	
		seal holes	presence	NS	Field examination	NA	NA	NS	2	
14-0004	WA	# shot/location	walrus/general	1	NS	NS	NS	NS	2	
		identification	species	1	NS	NS	NA	NA	NA	
14-0005	WA	# observed/location	walrus/general	1	Incidental report	NA	NA	NS	2	
		identification	species	1	NS	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
14-0006	RS	# killed/location	seal/general	1	Hunter interviews	NA	NA	NS	2	
		identification	species	1	Laboratory examination of skull	NS	NA	NA	NA	
		pelt colour	description	10	Laboratory examination of pelts	NS	NA	NS	2	
		condylobasal length	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		basal length	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		occipitonasal length	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		zygomatic breadth	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		mastoidal breadth	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		braincase width (max.)	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		interorbital width (min.)	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		palatal length, median line	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		nasal length	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		nasal width (at tip)	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		basal distance at bullae	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		maxillary tooth row	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		mandibular tooth row	mm	1	Laboratory examination of skull	NA	NA	±0.5 mm	2	
		skin thickness	description	10	Laboratory examination of pelts	Tanned museum specimens	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
24-0003	HA	# netted/location	seals/general	A	Caught in fishnet	NA	NA	NS	2	Data set 26-0005 reports same data for 1926
		identification	species	1	Inspection of photograph	Photograph	NA	NA	NA	
26-0005	HB	# netted/location	seals netted/general	A	Caught in fishnet	NA	NA	NS	2	Note 2
		identification	species	>1	Pelt examined by naturalist	NA	NA	NA	NA	
	HA	# netted/location	seals netted/general	A	Fishnet	NA	NA	NS	2	Data set 24-0003 reports same data for 1924
		identification	species	1	Inspection of photograph	Photograph	NA	NA	NA	
		age class	adult, non-adult	1	Inspection of photograph	Photograph	NA	NS	2	
27-0006	RS	# netted/location	seals netted/general	A	Hunter interviews	NA	NA	NS	2	
		# shot & lost	seals shot and not retrieved	NS	Hunter interviews	NA	NA	NS	2	
		# shot & landed	seals shot and retrieved	NS	Hunter interviews	NA	NA	NS	2	
		identification	species	NS	Hunter interviews	NA	NA	NA	NA	
31-0007	BS	# observed/location	seals/general	>1	Incidental reports	NA	NA	NS	2	Notes 2,17
		identification	species	>1	Field examination	NA	NA	NA	NA	
		haul-out on land	seal on shore or beach	>1	Incidental reports	NA	NA	NS	2	
	WA	# observed/location	walrus/general	>1	Incidental reports	NA	NA	NS	2	Notes 2,17
		identification	species	>1	NS	NA	NA	NA	NA	
	HD	# shot/location	seals shot/general	1	Hunter interviews	NA	NA	NS	2	Note 17
		identification	seals/general	1	Field examination and hunter interviews	NA	NA	NA	1, Note 25	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
40-0010	BS	# shot/location	seals shot/general	1	RVS; 32 m schooner; NS; NS; NS	NA	NA	NS	2	
		Identification	species	NS	NS	NA	NA	NA	NA	
	UP	# observed/location	seals/general, miles from point of land	NS	RVS; 32 m schooner; NS; NS; NS	NA	NA	NS	2	Note 17
		# shot & landed	seals shot and retrieved	4	Firearm	NA	NA	NS	2	
		# shot & lost	seals shot and not retrieved	1	Firearm	NA	NA	NS	2	
40-0011	RS	# pelts traded/community	number of seal pelts traded/year/community	25 years, 2 communities	Trader's records	NA	NA	NS	2	Note 20
		Identification	species	33,600 pelts	Trader's records	NA	NA	NA	NA	Notes 2,18
42-0002	WA	# shot/location	walrus shot/general	>1	Incidental reports	NA	NA	NS	2	Note 2
		Identification	species	>1	Field examination	NA	NA	NA	NA	
	HD	# shot/location	seals shot/general	1	Hunter interviews	NA	NA	NS	2	
		Identification	species	1	Hunter interviews; description provided	NA	NA	NA	NA	
51-0002	BS	# observed/location	seals/general	NS	RVS; 25 m diesel yacht; NS; NS; NS	NA	NA	±1 seal	2	
		Identification	species	6-7	Visual observation from vessel	NA	NA	NA	NA	
	UP	# skulls collected/location	seal skulls collected/general	27	Hunter interviews	Skulls given to Fisheries Research Board	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
51-0025	FS	# shot/location	seals/Lat. & Long.	1	Hunter interview	NA	NA	±1' Lat. & Long.	2	
		identification	species	1	Field examination; Laboratory examination	Skull, skin at National Museum of Canada	NA	Verified skull and skin against museum collection	NA	Note 1
		standard length	inches	1	Laboratory examination	NA	NA	0.25 inches	3	
		tail length	inches	1	Laboratory examination	NA	NA	0.25 inches	3	
		ear length	inches	1	Laboratory examination	NA	NA	0.25 inches	3	
		total body weight	pounds	1	Laboratory examination	NA	NA	NS	3	
		genital structure	male, female	1	Laboratory examination	NA	NA	NS	4	
		internal parasites	presence	1	Laboratory examination	NA	NA	NS	4	
		identification of parasites	species	3	Laboratory examination	NS	Identification by Institute of Parasitology, MacDonald College	NS	2	
52-0008	RS	# observed/location	seals/general, miles from point of land	A	Shore watch; RVS; 7 m Freighter Canoe	NA	NA	NS	2	Note 2
		# shot/location	seals/general	1	Firearm	NA	NA	NS	2	
		#/group	seals/group	NS	Field examination, 8 x 50 binoculars	NA	NA	Ranges given for some sightings	3	
		identification	species	182	Field examination, 8 x 50 binoculars	NA	NA	NA	NA	
		size	adult, silver jar	A	Field examination, 8 x 50 binoculars	NA	NA	NS	3	Note 15
		sex	male, female	1	Field examination	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	NS	Field examination, 8 x 50 binoculars	NA	NA	NS	4	
	BS	# observed/location	seals/general	A	Shore watch; RVS; 7 m Freighter Canoe	NA	NA	NS	2	Note 2
		# observed dead/ location	dead seals/general	1	Shore watch; 7 m Freighter Canoe	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
52-0008 (cont'd)		Identification	species	A	Field examination, 8 x 50 binoculars; one skull collected	NA	NA	NA	NA	
		standard length	cm	1	Field examination	NA	NA	NS	3	
		genital structure	male, female	1	Field examination	NA	NA	NS	4	
	UP	# skulls collected/ location	seal skulls collected/ general	13	NS	Skulls given to Fisheries Research Board	NA	NS	2	Total includes skulls collected in 1953 (53-0028)
52-0028	WA	# shot/location	walrus shot/general	2	Hunter interviews	NA	NA	NS	2	
		identification	species	2	Field examination	NA	NA	NA	NA	
53-0013	RS	# observed/location	seals/general	A	RVS; schooner; NS; NS; NS	NA	NA	NS	2	
		# shot/location	seals/general	2	NS	NA	NA	NS	2	
		identification	species	29	Visual observation from vessel	NA	NA	NA	NA	
	BS	# observed/location	seals/general	A	RVS; schooner; NS; NS; NS	NA	NA	NS	2	
		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
53-0028	RS	# observed/location	seals/general	A	Shore watch; RVS; 7 m Freighter Canoe	NA	NA	NS	2	Note 15
		# killed/location	seals/general	1	Killed by dog	NA	NA	NS	4	
		identification	species	A	Field examination	NA	NA	NA	NA	
		age class	adult, silver jar	1	Field examination	NA	NA	NS	3	
		haul-out on ice	seals on ice surface	4	Field examination	NA	NA	NS	4	
54-0003	RS	# observed/location	seals/general	A	RVS; icebreaker; NS; NS; NS	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel	NA	NA	NA	NA	
	BS	# observed/location	seals/general	A	RVS; icebreaker; NS; NS; NS	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
54-0003 (cont'd)		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
55-0010	RS	# observed/location	seals/general	A	RIS; sled and dog team; NA; NS; NS	NA	NA	NS	2	
		# /group	seals/group	15	Visual observation from ice surface	NA	NA	NS	3	
		# shot/location	seals shot/general	156	Hunter interviews	NA	NA	NS	2	
		# shot & lost	seals shot and not retrieved	5	Hunter interviews	NA	NA	NS	2	
		identification	species	339	Field examination; hunter examination	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	NS	Visual observation from ice surface	NA	NA	NA	3	
	BS	# observed/location	seals/general	A	RIS; sled and dog team; NA; NS; NS	NA	NA	NS	2	
		# /group	seals/group	6	Visual observation from ice surface	NA	NA	NS	3	Note 2
		# shot/location	seals shot/general	21	Hunter interviews	NA	NA	NS	2	
		identification	species	6	Hunter interviews; field examination	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	6	Visual observation from ice surface	NA	NA	NS	3	Note 2
	UP	# observed/location	seals/general	12	RIS; sled and dog team; NA; NS; NS	NA	NA	NS	2	
55-0038	RS	# shot & landed	seals shot and retrieved/year/community	21 years	Hunter interviews	NA	NA	NS	2	Note 20
		identification	species	42,600 pelts	Hunter examination	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
55-0038 (cont'd)	BS	# shot & landed	seals shot and retrieved/year/community	7 years	Hunter interviews	NA	NA	NS	2	Note 20
		identification	species	350 pelts	Hunter examination	NA	NA	NA	NA	Notes 10,18
	WA	# shot & landed	walrus shot and retrieved/year/community	2 years	Hunter interviews	NA	NA	NS	2	Note 20
		identification	species	2 pelts	Hunter examination	NA	NA	NA	NA	
58-0042	FS	# shot/location	seal/Lat. & Long.	1	Hunter interview; incidental report	NA	NA	±1' Lat. & Long.	2	
		identification	species	1	Laboratory examination of pelt and photograph	Pelt-NS; photograph	NA	identification verified by 2nd person (scientist)	NA	
		pelt colour	description	1	Laboratory examination	NS	NA	NS	3	
		standard length: pelt	inches	1	Laboratory examination	NS	NA	NS	3	
		nose to hind flipper length: pelt	inches	1	Laboratory examination	NS	NA	NS	3	
58-0046	WA	# observed/location	walrus/general	NS	incidental reports	NA	NA	NS	2	
		# shot/location	walrus shot/general	1	incidental reports	NA	NA	NS	2	
		identification	species	11	Field examination	Photographs	NA	NA	NA	
		tusk length	inches	1	Field examination	NA	NA	NS	2	
		length	feet	1	Field examination	NA	NA	NS	2	
		total body weight	pounds	1	Field examination	NA	NA	NS	2	
59-0043	WA	# shot/location	walrus/Lat. & Long.	2	Hunter interviews	NA	NA	±1' Lat. & Long.	2	
		identification	species	2	Field examination	NA	NA	NA	NA	
		age class	years old	2	Field examination	NA	NA	NS	2	
60-0064	WA	# shot/location	walrus/general	1	Hunter interview	NA	NA	NS	2	
		identification	species	1	Field examination	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
62-0063	RS	# shot & landed	seals shot and retrieved	250	Hunter interviews	NA	NA	±50 seals	2	
		identification	species	A	Field examination by hunter	NA	NA	NA	NA	
	BS	# shot & landed	seals shot and retrieved	10	Hunter interviews	NA	NA	NS	2	
		identification	species	A	Field examination by hunter	NA	NA	NA	NA	
	UP	# shot & landed	seals shot and retrieved	150	Hunter interviews	NA	NA	NS	2	
		# skins saved	# skins kept and used for handicrafts	124	Hunter interviews	NA	NA	NS	2	
62-0064	WA	# shot/location	walrus shot/general	1	Hunter interviews	NA	NA	NS	2	
		identification	species	1	Field examination	NA	NA	NA	NA	
63-0056	WA	# shot/location	walrus shot/Lat. & Long.	1	Hunter interview	NA	NA	±1' Lat. & Long.	2	
		identification	species	1	Field examination	NA	NA	NA	NA	
		standard length	feet	1	Field examination	NA	NA	±1.5 m	2	
		tusk length	inches	1	Field examination	NA	NA	NS	2	
		genital structure	male, female	1	Field examination	NA	NA	NS	2	
		stomach contents, identification	species	1	NS	NS	NS	NS	2	
64-0052	WA	# observed/location	walrus/general	NS	Incidental report	NA	NA	NS	2	
		identification	species	2	Field examination	NA	NA	NA	NA	
64-0053	RS	# shot/location	seals shot/general	555	Hunter interviews	NA	NA	NS	2	
		identification	species	555	Field examination by hunters	NA	NA	NA	NA	
	BS	# shot/location	seals shot/general	1	Hunter interviews	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
64-0053 (cont'd)		identification	species	1	Field examination by hunter	NA	NA	NA	NA	
	UP	# shot/location	seals shot/general	145	Hunters interviews	NA	NA	NS	2	
		# netted/location	seals caught in nets/general	155	Hunters interviews	NA	NA	NS	2	
		# pelts sold/community	# pelts traded by hunters/community	3 communities, 3 years	NS	NA	NA	NS	2	
		selling price/pelt	dollars	3 communities, 3 years	NS	NA	NA	NS	2	
	WA	# shot/location	walrus shot/general	2	Hunter interviews	NA	NA	NS	2	
		# shot & lost	walrus shot and not retrieved	2	Hunter interviews	NA	NA	NS	2	
		identification	species	2	Field examination by hunters	NA	NA	NA	NA	
65-0058	WA	# observed/location	walrus/general	>1	Incidental reports	NA	NA	NS	2	Note 2
		identification	species	>1	Field examination	NA	NA	NA	NA	
65-0060	RS	# observed/location	seals/miles from point of land	A	Ice watch	NA	NA	NS	2	
		# shot & lost	seals shot and not retrieved	5	Observing hunters; .222 rifles with scopes	NA	NA	NS	4	
		# shot & landed	seals shot and retrieved	15	Observing hunters; .222 rifles with scopes	NA	NA	NS	4	
		identification	species	38	Field examination	NA	NA	NA	NA	
		standard length	inches	14	NS	NA	NA	NS	3	
		age class	young, adult	1	Field examination	NA	NA	NS	3	
		condition of pelt	poor, fair, good	15	Field examination	NA	NA	NS	3	
		# of shots taken	number of times rifle fired at animal	27	Observing hunters	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
65-0060 (cont'd)	BS	# observed/location	seals/miles from point of land	2	Ice watch	NA	NA	NS	2	
		# shot & landed	seals shot and retrieved	0	Observing hunters; .222 rifles with scopes	NA	NA	NS	NA	Note 12
		# shot & lost	seals shot and not retrieved	1	Observing hunters; .222 rifles with scopes	NA	NA	NS	3	
		identification	species	2	Field examination	NA	NA	NA	NA	
		# of shots taken	number of times rifle fired at animal	2	Observing hunters	NA	NA	NS	3	
66-0058	RS	# shot/location	seals/general	73	Hunter sample	NA	NA	NS	2	
		identification	species	73	Field examination	NA	NA	NA	NA	
		standard length	inches	73	Laboratory examination	NA	NA	NS	3	
		axillary girth	inches	73	String	NA	NA	NS	3	
		maximum girth	inches	73	String	NA	NA	NS	3	
		total body weight	pounds	73	Spring scale	NA	NA	NS	3	
		blubber thickness: chest	inches	73	Probe or matchstick	NA	NA	NS	3	
		genital structure	male, female	73	Field examination	NA	NA	NS	3	
67-0007	RS	# observed/location	seals/general	A	RAS; Beaver or Cessna 180 and 185; 10-50 m; NS; NS RVS; canoes, 10 m motor boat; shore watch	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation	NA	NA	NS	2	
		identification	species	A	Visual observation	NA	NA	NA	NA	
	BS	# observed/location	seals/general	A	RAS; Beaver or Cessna 180 and 185; 10-50 m; NS; NS RVS; canoe, 10 m motor boat; shore watch	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation	NA	NA	NS	2	
		identification	species	A	Visual observation	NA	NA	NA	NA	
		breeding odour	presence	NS	Olfactory cue	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
67-0007 (cont'd)		haul-out on land	seal on shore or beach	NS	Visual observation	NA	NA	NS	4	
69-0017	RS	# observed/location	seals/general	3,5	RVS; 6 m canoe; NA; NS; NS	NA	NA	NS	2	Discrepancy in number of samples Note 3
		identification	species	3,5	Visual observation from vessel	NA	NA	NA	NA	
69-0063	RS	# observed/location	seals/Lat. & Long.	NS	RVS; 83 m icebreaker; NA; NS; NS	NA	NA	±1' Lat. & Long.	2	Note 14
		# /group	seals/group	A	Visual observation from vessel	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel	NA	NA	NA	NA	
71-0100	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	2,000	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	Note 10	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
71-0101	RS	# killed/location	seals/miles from point of land	32	RIS	NA	NA	NS	2	Note 2
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	NS	Teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
71-0101 (cont'd)					compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	immediately before sectioning to hydrate tissue	albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	NS	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	
		genital structure	male, female	NS	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg	32	Field examination	NA	NA	estimate	2	
	BS	# killed/location	seals/miles from point of land	2	RIS	NA	NA	NS	2	Note 2
		identification	species	2	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	1	Teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032%	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
71-0101 (cont'd)							aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	2	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	
		genital structure	male, female	2	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg	2	Field examination	NA	NA	estimate	2	
71-0102	RS	# netted/location	seals netted/Lat. & Long.	177	Eight 46 m nets; netting 0.3 m stretched mesh, 210/96 nylon dyed green; depth 24 meshes; float-line 7/16" braided rope with polypropylene core; FL14 floats every second hanging; lead-line 0.23 kg per fathom, 5.9 kg total weight hangings; 1/4" braided polypropylene; nets run out in lengths of 92 m using a 4.6 m rubber boat; offshore end held by a 5.5 kg trawl-anchor attached to the float-line.	NA	NA	±1' Lat. & Long.	4	
		# killed/location	seals/general	56	Drowned in nets	NA	NA	NS	4	Note 7
		identification	species	177	Field examination	NA	NA	NA	NA	
		standard length	inches	NS	Field examination	NA	NA	NS	3	Note 2
		maximum girth	inches	121	Field examination	NA	NA	NS	3	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
71-0102 (cont'd)		# dentinal annuli: canines	annuli/tooth/seal	56	Laboratory examination cross-section of canine teeth	NS	NS	NS	2	Note 2
		# claw annuli	annuli/claw/seal	121	Field examination	NS	NS	NS	2	Note 2
		genital structure	male, female	177	Field examination	NA	NA	NS	4	
		direction of movement relative to net	presence, seal follows line of floats and passes by offshore end of net	NS	Visual observation	NA	NA	NS	4	
		moulting	description, number moulting	A	Field examination	NA	NA	NS	3	
71-0105	RS	# observed/location	seals/km from shore or points of land	A	RIS; lairs found by sight	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	NS	RIS	NA	NA	NS	2	
		# lairs/timed dog search	lairs found/min.	NS	Trained Labrador bitch, followed in snowmachine; lairs found by scent	NA	NA	NS	3	
		distance to nearest birth lair complex	m	NS	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# claw annuli	annuli/claw/seal	NS	Field examination	NS	NA	NS	2	
		breeding odour	presence, rutting male odour	A	Field examination	NA	NA	NS	3	
		carcass remains, weight	kg	A	Field examination	NA	NA	estimate	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NA	3	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	3	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	3	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	3	
		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
71-0105 (cont'd)		breathing hole diameter	cm	A	Field examination	NA	NA	NS	3	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	3	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	3	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	3	
		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	3	
		entry hole	presence	A	Field examination	NA	NA	NS	3	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	3	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	
		number of entry holes	number	A	Field examination	NA	NA	NS	3	
71-0106	BS	identification	species	13	Field examination	NA	NA	NA	NA	Note 7
		standard length	cm	13	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	13	Field examination	NA	NA	NS	3	
		total body weight	kg	NS	Field examination	NA	NA	NS	2	
		blubber thickness: chest	mm	13	Field examination	NA	NA	NS	3	
		# claw annuli	annuli/claw/seal	13	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Note 1
		genital structure	male, female	13	Field examination	NA	NA	NS	4	
		baculum length	mm	5	Collected from specimen, then boiled	NS	NA	NS	3	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
71-0106 (cont'd)		corpus luteum	presence	8	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	3	Note 2
		corpus luteum diameter (max.)	NS	8	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		corpus albicans diameter (max.)	NS	8	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	8	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		stomach contents, wet weight	mg	1	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
		stomach contents, volume	ml	1	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
		stomach contents, identification	species	1	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
72-0099	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	2,000	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
72-0100	RS	# observed/location	seals/general	NS	Ice watch	NA	NA	NS	2	
		identification	species	A	Field examination and listening to tapes	Ampex and BASF audiotapes	Listen to tapes	Recordings compared to captive seal calls	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0100 (cont'd)		vocalization rate	# vocalizations/minute	240 mins.	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Tally no. of calls	NS	2	
		vocalization frequency	Hz	633	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	633	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	±0.5 sec.	2	
		vocalization slope	Hz/sec.	633	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	NS	2	
72-0101	RS	# killed/location	seals/Lat. & Long.	8	RIS, on foot	NA	NA	±1' Lat. & Long.	2	Note 7
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	8	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		# claw annuli	annuli/claw/seal	NS	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the sur-	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0101 (cont'd)							face, and annual laminae counted			
		genital structure	male, female	NS	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg or relative	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	124 min.	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization frequency	Hz	364	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	364	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	±0.5 sec.	2	
		vocalization slope	Hz/sec.	364	Uher 4000 L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Ampex and BASF audiotapes	Kay Sonagraph 7029A	NS	2	
	WA	# observed/location	walrus/Lat. & Long.	1	RAS; helicopter, NS; NS; NS	NA	NA	±1' Lat. & Long.	4	
		identification	species	A	Visual observation from helicopter	NA	NA	NA	NA	
72-0102	RS	# observed/location	seals/general	NS	RAS	NA	NA	NS	2	
		# observed dead/location	dead seals/general	58	RAS	NA	NA	NS	2	
		# shot & landed	seals shot and retrieved	297	Hunter interviews	NA	NA	NS	4	
		identification	species	297	Hunter examination	NA	NA	NA	NA	
		standard length	inches	NS	Field examination	NA	NA	NS	2	
		maximum girth	inches	NS	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	130	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid;	Teeth stored prior to sectioning in 70% ethanol; teeth	Cut sections placed in water pH 8-9 for at least 20 min., then af-	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0102 (cont'd)					decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	soaked in water for 24 h immediately before sectioning to hydrate tissue	fixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		genital structure	male, female	294	Field examination	NA	NA	NS	3	
		corpus luteum	presence	145	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	
		corpus albicans	presence	145	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	
		follicular activity	presence	145	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	
	BS	# observed/location	seals/general	NS	RAS	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0102 (cont'd)		# shot & landed	seals shot and retrieved	28	Hunter interviews	NA	NA	NS	2	
		identification	species	24	Hunter examination	NA	NA	NA	NA	
		standard length	inches	NS	Field examination	NA	NA	NS	2	
		maximum girth	inches	NS	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	12	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		genital structure	male, female	24	Field examination	NA	NA	NS	3	
		corpus luteum	presence	16	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	
		corpus albicans	presence	16	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0102 (cont'd)		follicular activity	presence	16	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in Formalin for subsequent laboratory examination	NA	NS	4	
72-0103	RS	# killed/location	seals/general	11	RIS	NA	NA	NS	2	Note 7
		identification	species	11	Field examination	NA	NA	NA	NA	
		total body weight	kg	11	Laboratory examination	NA	NA	±0.1 kg	2	
		age class	months old, adult	11	Field examination	NA	NA	Range of months old given for 6 seals	3	
		genital structure	male, female	11	Field examination	NA	NA	NS	4	
		frozen out	presence, seal at frozen-over breathing hole	2	Field examination	NA	NA	NS	4	
		fat content, tissue	percent	11	Half carcasses ground and mixed; 200 g samples taken; fat extracted with dichloroethane	NS	Fat recovered from dichloroethane and and quantified	2 replicates	2	
		water content, fat-free tissue	percent	4	Midgut and shoulder sections laboratory examination	NS	Standard reference cited	2 replicates	2	
		water content, whole body	percent	11	Half carcass; laboratory examination	NS	NS	2 replicates	2	
		protein content, fat-free tissue	percent	11	200 g composite samples; laboratory examination	NS	Standard reference cited	2 replicates	2	
		protein content, whole body	percent	11	Half carcass; laboratory examination	NS	NS	2 replicates	2	
		caloric density, fat-free tissue	kcal/g	11	200 g composite samples; laboratory examination	NS	Adiabatic bomb calorimeter	2 replicates	2	
		caloric density, whole body	kcal/g	11	Half carcass; laboratory examination	NS	Adiabatic bomb calorimeter	2 replicates	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0103 (cont'd)		carcass length	inches	1	Tape measure; field examination	Photograph	NA	NS	3	
		suckling	presence, pup suckling	1	Field examination	NA	NA	NS	4	
72-0104	RS	# observed/location	seals/NS	NS	RAS; Piper Apache or Aztec; 92 m; 208-216 km/h; 1.6 km	NA	NA	States detectability may be lower at outer edges of transect strip	2	Note 4
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	A	Angles of sight established from known target	NA	NA	NS	2	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		age class	adult, pup	A	Visual observation from plane	NA	NA	Pups have lower detectability due to size and spend proportionately more time at surface	4	
		haul-out on ice	seal on ice surface	NS	Visual observation from plane	NA	NA	Pups have lower detectability due to size and spend proportionately more time at surface	4	
		suckling	presence, pup suckling	NS	Visual observation from plane	NA	NA	Pups have lower detectability due to size and spend proportionately more time at surface	4	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0104 (cont'd)	BS	# observed/location	seals/NS	NS	RAS; Piper Apache or Aztec; 92 m; 208-216 km/h; 1.6 km	NA	NA	States detectability may be lower at outer edges of transect strip	2	Notes 4,8
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
72-0105	RS	# netted/location	seals netted/general, Lat. & Long.	1 site, 208 seals	Eight 46 m nets; netting 0.3 m stretched mesh, 210/96 nylon dyed green; depth 24 meshes; float-line 7/16" braided rope with polypropylene core; FL14 floats every second hanging; lead-line 0.23 kg per fathom, 5.9 kg total weight; hangings 1/4" braided polypropylene; nets run out in lengths of 92 m using a 4.6 m rubber boat; offshore end held by a 5.5 kg trawl-anchor attached to the float-line.	NA	NA	±0.5' Lat. & Long.	3	
		# killed/location	seals/general	NS	Drowned in nets	NA	NA	NS	4	
		identification	species	208	Field examination	NA	NA	NA	NA	
		maximum girth	cm	208	Field examination	NA	NA	NS	3	
		age class	years old	A	NS	NS	NS	NS	4	
		genital structure	male, female	208	Field examination	NA	NA	NS	4	
		moulting	description, number moulting	NS	Field examination	NA	NA	NS	4	
72-0106	RS	# observed/location	seals/km from shore or points of land	A	RIS; dog followed by snow machine	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	NS	RIS; lairs found by sight	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0106 (cont'd)		# lairs/timed dog search	lairs/30 min. search	NS	RIS; trained Labrador bitch; lairs found by scent	NA	NA	NS	3	
		distance to nearest birth lair complex	m	NS	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# claw annuli	annuli/claw/seal	NS	Field examination	NA	NA	NS	2	
		breeding odour	presence, rutting male odour	A	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg	A	Field examination	NA	NA	estimate	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NS	4	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	4	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	4	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	4	
		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	5 sites	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Tally number of calls	NS	2	Note 2
		vocalization frequency	Hz	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	0.1 sec.	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		vocalization slope	Hz/sec.	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		breathing hole diameter	cm	A	Field examination	NA	NA	NS	4	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	4	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	4	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0106 (cont'd)		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	4	
		entry hole	presence	A	Field examination	NA	NA	NS	4	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	4	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	
		number of entry holes	number	A	Field examination	NA	NA	NS	4	
72-0107	BS	identification	species	25	Field examination	NA	NA	NA	NA	Note 7
		standard length	cm	25	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	25	Field examination	NA	NA	NS	3	
		total body weight	kg	NS	Field examination	NA	NA	NS	2	
		blubber thickness: chest	mm	25	Field examination	NA	NA	NS	3	
		# claw annuli	annuli/claw/seal	25	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Notes 1,2
		genital structure	male, female	25	Field examination	NA	NA	NS	4	
		bacula length	mm	10	Collected from specimen, then boiled	NS	NA	NS	3	Note 2
		corpus luteum	presence	15	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	3	Note 2
		corpus luteum diameter (max.)	NS	15	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0107 (cont'd)		corpus albicans diameter (max.)	NS	15	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	15	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		stomach contents, wet weight	mg	2	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
		stomach contents, volume	ml	2	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
		stomach contents, identification	species	2	Removed from specimen; laboratory examination	10% Formalin	NS	NS	2	Note 2
72-0108	BS	identification	species	1	Field examination	NA	NA	NA	NA	Note 7, chemical analyses, data set #72-0019
		standard length	cm	1	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	1	Field examination	NA	NA	NS	3	
		blubber thickness: chest	mm	1	Field examination	NA	NA	NS	3	
		# claw annuli	annuli/claw/seal	1	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Note 1
		genital structure	male, female	1	Field examination	NA	NA	NS	4	
		corpus luteum	presence	1	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
72-0108 (cont'd)		corpus luteum diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		corpus albicans diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter	# follicles	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
73-0018	RS	# shot/location	seals/general	90	Hunter interviews	NA	NA	NS	2	Notes 3,15
		identification	species	90	Field examination by hunter	NA	NA	NA	NA	
73-0025	BS	# killed/location	seal/miles from point of land	1	RIS	NA	NA	NS	2	Note 7
		identification	species	1	Field examination	NA	NA	NA	NA	
		coat colour	hues	1	Field examination	NA	NA	NS	4	
		standard length	cm	1	Field examination	NA	NA	NS	3	
		nose to hind flipper length	cm	1	Field examination	NA	NA	NS	3	
		heart girth	cm	1	Field examination	NA	NA	NS	3	
		blubber thickness:								
		neck	cm	1	Field examination	NA	NA	NS	3	
		chest	cm	1	Field examination	NA	NA	NS	3	
		belly	cm	1	Field examination	NA	NA	NS	3	
		heart weight	mg	1	Field examination	NA	NA	NS	2	
		liver weight	mg	1	Field examination	NA	NA	NS	2	
		kidney weight	mg	1	Field examination	NA	NA	NS	2	
		spleen weight	mg	1	Field examination	NA	NA	NS	2	
		intestine length	cm	1	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	1	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid;	Teeth stored prior to sectioning in 70% ethanol; teeth	Cut sections placed in water pH 8-9 for at least 20 min., then af-	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
73-0025 (cont'd)					decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	soaked in water for 24 h immediately before sectioning to hydrate tissue tissue	fixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		degree of scarring	relative	1	Field examination	NA	NA	NS	3	
		genital structure	male, female	1	Field examination	NA	NA	NS	4	
73-0116	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	3,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
73-0121	RS	# observed/location	seals/km from shore or points of land	A	RIS; dog followed by snow machine	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	16 lairs	RIS; lairs found by sight	NA	NA	NS	2	Note 2
		# lairs/timed dog search	lairs/30 min. search	16 lairs	RIS; trained Labrador bitch; lairs found by scent	NA	NA	NS	3	Note 2
		distance to nearest birth lair complex	m	A	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# claw annuli	annuli/claw/seal	NS	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
73-0121 (cont'd)		breeding odour	presence, rutting male odour	A	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg, estimate	A	Field examination	NA	NA	NS	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NS	4	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	4	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	4	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	4	
		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	5 sites	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Tally number of calls	NS	2	Note 2
		vocalization frequency	Hz	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		vocalization slope	Hz/sec.	55 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		breathing hole diameter	cm	A	Field examination	NA	NA	NS	4	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	3	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	3	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	3	
		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	3	
		entry hole	presence	A	Field examination	NA	NA	NS	3	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	3	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
73-0121 (cont'd)		number of entry holes	number	A	Field examination	NA	NA	NS	3	
73-0122	BS	identification	species	1	Field examination	NA	NA	NA	NA	Note 7, chemical analyses, see data set #72-0019
		standard length	cm	1	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	1	Field examination	NA	NA	NS	3	
		blubber thickness: chest	mm	1	Field examination	NA	NA	NS	3	
		# claw annuli	annuli/claw/seal	1	Field examination; laboratory examination	NA	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Notes 1,2
		genital structure	male, female	1	Field examination	NA	NA	NS	4	
		corpus luteum	presence	1	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	4	Note 2
		corpus luteum diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		corpus albicans diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0029	RS	# observed/aerial transect line (outer)	seals/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	Differences among observers and inner-outer transects calculated. Left-right was 24.86% and inner-outer was 104.21%.	4	Note 4
		# observed/aerial transect line (inner)	seals/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0029 (cont'd)		# observed attending holes/aerial transect line (outer)	seals at hole/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	58 lines	SAS; Cessna 337; 91-152 m; 222-259 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
74-0030	RS	# observed/location	seals/general	A	RAS; Bell 205; NS; NS; NS	NA	NA	NS	2, Note 30	Note 3
		# shot/location	seals shot/miles from point of land	1	Hunter interviews	NA	NA	NS	2	
		identification	species	1	Field examination (pelt)	NA	NA	NA	NA	
		brand shape	letter "W"	1	Field examination (pelt)	NS	NA	NS	4	
		assoc. with whales	seen at same time	1	Visual observation	NA	NA	NS	4	
74-0053	RS	# killed/location	seals/miles from point of land	48	RIS	Photographs for 21 seals	NA	NS	2	Note 7

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0053 (cont'd)		identification	species	A	Field examination	Photographs for 21 seals	NA	NA	NA	
		coat colour	hues	48	Field examination	Photographs for 21 seals	NA	NS	2	
		standard length	cm	48	Field examination	NA	NA	NS	4	
		nose to hind flipper length	cm	48	Field examination	NA	NA	NS	4	
		heart girth	cm	48	Field examination	NA	NA	NS	4	
		total body weight	kg	2	Field examination	NA	NA	NS	2	
		blubber thickness:								
		neck	cm	48	Field examination	NA	NA	NS	4	
		chest	cm	48	Field examination	NA	NA	NS	4	
		belly	cm	48	Field examination	NA	NA	NS	4	
		# cementum annuli: canines	annuli/tooth/seal	48	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		# claw annuli	annuli/claw/seal	14	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0053 (cont'd)		degree of scarring	relative	48	Field examination	Photographs	NA	NS	3, Note 31	
		genital structure	male, female	48	Field examination	NA	NA	NS	4	
		testes weight	mg	1	Field examination	NA	NA	NS	2	
		testes length	cm	1	Field examination	NA	NA	NS	4	
		bacula length	cm	16	Laboratory examination	NA	NA	NS	4	Note 2
		bacula weight	mg	16	Laboratory examination	NA	NA	NS	2	Note 2
		swollen vulva	presence	32	Field examination	NA	NA	NS	3	Notes 2,8
		foetus	presence	32	Field examination	NA	NA	NS	4	Note 2
		breeding odour	presence	48	Field examination	NA	NA	NS	4	Notes 2,8
		milk	presence	32	Field examination	NA	NA	NS	4	Notes 2,8
		corpus luteum	presence	32	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		corpus albicans	presence	32	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		follicular activity	presence	32	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		scars on uterine horns	presence	32	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		relative stomach fullness	description	48	Field examination	NA	NA	NS	4	Note 2
		stomach contents	presence	48	Field examination	NA	NA	NS	NA, Note 32	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0053 (cont'd)		stomach contents, wet weight	mg	6	Laboratory examination	NS	NA	NS	NA, Note 32	Note 5
		stomach contents, volume	ml	6	Laboratory examination	NS	NA	NA	NA, Note 32	Note 5
		stomach contents, identification	species	6	Laboratory examination	NS	NA	NA	2	Note 5
		vocalization rate	# vocalizations/min.	305 min.	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization frequency	Hz	305 min.	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp	Audiotapes	Kay Sonagraph 7029A	NS	2	Note 6
		vocalization duration	sec.	305 min.	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp.	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	Note 6
		moulting	description	48	Field examination	NA	NA	NS	4	Note 2
		breathing hole diameter	cm	23	Field examination	NA	NA	NS	3, Note 31	
	BS	# killed/location	seals/miles from points of land	30	RIS	NA	NA	NS	2	Note 7
		identification	species	A	Field examination	NA	NA	NA	NA	
		coat colour	hues	30	Field examination	NA	NA	NS	2	
		standard length	cm	30	Field examination	NA	NA	NS	4	
		nose to hind flipper length	cm	30	Field examination	NA	NA	NS	4	
		heart girth	cm	30	Field examination	NA	NA	NS	4	
		total body weight	kg	4	Field examination	NA	NA	NS	2	
		blubber thickness:								
		neck	cm	29	Field examination	NA	NA	NS	4	
		chest	cm	29	Field examination	NA	NA	NS	4	
		belly	cm	29	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0053 (cont'd)		# cementum annuli: canines	annuli/tooth/seal	29	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		# claw annuli	annuli/claw/seal	30	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		degree of scarring	relative	24	Field examination	NA	NA	NS	3, Note 31	
		genital structure	male, female	30	Field examination	NA	NA	NS	4	
		testes weight	mg	1	Field examination	NA	NA	NS	3	
		testes length	cm	1	Field examination	NA	NA	NS	3	
		bacula weight	mg	3	Laboratory examination	NA	NA	NS	3	
		bacula length	cm	3	Laboratory examination	NA	NA	NS	3	
		swollen vulva	presence	18	Field examination	NA	NA	NS	3	Note 8
		foetus	presence	18	Field examination	NA	NA	NS	4	Note 8
		corpus luteum	presence	18	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0053 (cont'd)		corpus albicans	presence	18	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		follicular activity	presence	18	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		scars on uterine horns	presence	18	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		relative stomach fullness	description	30	Field examination	NA	NA	NS	4	Note 2
		stomach contents	presence	30	Field examination	NA	NA	NS	4	Note 2
		stomach contents, wet weight	mg	4	Laboratory examination	NS	NA	NS	NA, Note 32	Note 5
		stomach contents, identification	species	4	Laboratory examination	NS	NA	NS	NA, Note 32	Note 5
		stomach contents, volume	ml	4	Laboratory examination	NS	NA	NS	NA, Note 32	Note 5
		vocalization rate	# vocalizations/min.	305 min. recordings	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amplifier	Audiotapes	NS	NS	2	
		vocalization frequency	Hz	305 min. recordings	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amplifier	Audiotapes	NS	NS	2	Note 6
		vocalization duration	sec.	305 min. recordings	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amplifier	Audiotapes	NS	±0.1 sec.	2	Note 6
		relative bladder fullness	description	1	Field examination	NA	NA	NS	3, Note 31	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0108	RS	# pelts sold/community	seal pelts/person/community	3 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	3,800	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
74-0109	RS	# shot/location	seals shot/community	29	Hunter interview; field examination	NA	NA	NS	2, Note 30	
		identification	species	A	Field examination	NA	NA	NA	NA	
		standard length	cm	26	Field examination	NA	NA	NS	2	
		nose to hind flipper length	cm	26	Field examination	NA	NA	NS	2	
		axillary girth	cm	26	Field examination	NA	NA	NS	2	
		blubber thickness:								
		neck	cm	19	Field examination	NA	NA	NS	2	
		chest	cm	19	Field examination	NA	NA	NS	2	
		belly	cm	22	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	26	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0109 (cont'd)							Toluylene Blue; annuli in cementum counted			
		genital structure	male, female	29	Field examination	NA	NA	NS	3	
		corpus luteum	presence	17	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 1
		corpus albicans	presence	17	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 1
		follicular activity	presence	17	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 1
	BS	# shot/location	seals shot/community	3	Hunter interview; field examination	NA	NA	NS	2	
		identification	species	A	Field examination	NA	NA	NA	NA	
		standard length	cm	3	Field examination	NA	NA	NS	2	
		nose to hind flipper length	cm	3	Field examination	NA	NA	NS	2	
		axillary girth	cm	3	Field examination	NA	NA	NS	2	
		blubber thickness:								
		neck	cm	3	Field examination	NA	NA	NS	2	Note 2
		chest	cm	3	Field examination	NA	NA	NS	2	Note 2
		belly	cm	3	Field examination	NA	NA	NS	2	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0109 (cont'd)		# cementum annuli: canines	annuli/tooth/seal	3	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		genital structure	male, female	3	Field examination	NA	NA	NS	3	
		corpus luteum	presence	3	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
		corpus albicans	presence	3	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
		follicular activity	presence	3	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0110	RS	# netted/location	seals netted/general; Lat. & Long.	1 site, 96 seals	"According to methods in Smith et al. (1973)"	NA	NA	±0.5' Lat. & Long.	3	
		# killed/location	seals/general	64	Drowned in nets	NA	NA	NS	2	
		identification	species	96	Field examination	NA	NA	NA	NA	
		maximum girth	cm	64	Field examination	NA	NA	NS	2	
		age class	years old	A	NS	NS	NS	NS	2	
		genital structure	male, female	96	Field examination	NS	NS	NS	4	
		internal body temperature	°C	6	Field examination, captive seals	NA	NA	±0.1°C	2	
		moulting	description, number moulting	NS	Field examination, captive seals	NA	NA	NS	4	
74-0115	RS	# observed/location	seals/km from shore or points of land	A	RIS; dog followed by snow machine	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	26 sites	SIS; lairs found by sight	NA	NA	NS	2	
		# lairs/timed dog search	lairs/30 min. search	26 sites, 65 lairs	SIS; trained Labrador bitch; lairs found by scent	NA	NA	Same dog used from year to year	3	
		distance to nearest birth lair complex	m	A	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	NS	Laboratory examination	NS	NS	NS	2	
		# claw annuli	annuli/claw/seal	NS	Field examination; laboratory examination	NS	NS	NS	2	
		breeding odour	presence, rutting male odour	A	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg, estimate	A	Field examination	NA	NA	NS	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NS	4	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	4	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	4	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
74-0115 (cont'd)		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	23 recording sites	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Tally number of calls	NS	2	
		vocalization frequency	Hz	230 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	230 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		vocalization slope	Hz/sec.	230 min.	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		breathing hole diameter	cm	A	Field examination	NA	NA	NS	3	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	3	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	3	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	3	
		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	3	
		entry hole	presence	A	Field examination	NA	NA	NS	3	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	3	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	
		number of entry holes	number	A	Field examination	NA	NA	NS	3	
75-0043	RS	# observed/location	seals/Lat. & Long., general	NS	Vessel watch, 360° survey, 0.8 km radius	NA	NA	±1' Lat. & Long.	2	
		distance from vessel	relative	A	Visual observation from vessel	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel; binoculars	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0043 (cont'd)	BS	# observed/location	seals/Lat. & Long., general	NS	Vessel watch, 360° survey, 0.8 km radius	NA	NA	±1' Lat. & Long.	2	
		distance from vessel	relative	A	Visual observation from vessel	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel; binoculars	NA	NA	NA	NA	
75-0045	RS	# observed/aerial transect line (outer)	seals/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	Differences among observers and	4	Note 4
		# observed/aerial transect line (inner)	seals/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	inner-outer transects calculated.	4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	Left-right was 2.22% and inner-outer was 27.92%.	4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0045 (cont'd)		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	61 lines	SAS; Cessna 337; 91-152 m; 260-316 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		Identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
75-0047	RS	# observed/location	seals/general	A	RAS; Bell 205 and 206; 31 m; NS; NS; NS	NA	NA	NS	2	Notes 3,15

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0047 (cont'd)		identification	species	100	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	100	Visual observation from plane	NA	NA	NS	4	Note 15
		diving during fly-by	seal enters water	3-4	Visual observation from plane	NA	NA	NS	3	
75-0048	RS	# observed/location	seals/segment	A	RAS; Twin Otter; 24-122 m; 145-258 km/h; 402 m	NA	NA	NS	3, Note 33	Note 3
		identification	species	2	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/segment	A	RAS; Twin Otter; 24-122 m; 145-258 km/h; 402 m	NA	NA	NS	3, Note 33	Note 3
		identification	species	3	Visual observation from plane	NA	NA	NA	NA	
	UP	# observed/location	seals/segment	A; 305 seals	RAS; Twin Otter; 24-122 m; 145-258 km/h; 402 m	NA	NA	NS	3, Note 33	Note 3
	WA	# observed/location	walrus/segment	A; 1 walrus	RAS; Twin Otter; 24-122 m; 145-258 km/h; 402 m	NA	NA	NS	3, Note 33	Note 3
		identification	species	1	Visual observation from plane	NA	NA	NA	NA	
75-0050	UP	# observed/location	seals/Lat. & Long.	A	RAS; Cessna 337; 304 m; 242-258 km/h; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,4
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
75-0071	RS	# killed/location	seals collected/miles from points of land	129	RIS	NA	NA	NS	2, Note 30	Note 7
		identification	species	A	Field examination	NA	NA	NA	NA	
		coat colour	hues	65	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0033 (cont'd)		distance from aircraft	on or off transect	523	NS	NA	NA	NS	2, Note 35	
		identification	species	523	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	400	Visual observation from plane	NA	NA	NS	2	
	BS	# observed/aerial transect line	seals/line	11 lines	SAS; Cessna 337, Twin Otter; 100 m; 220 km/h; 800 m	NA	NA	NS	3	
		# /group	seals/group	2	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	2	NS	NA	NA	NS	2	
		identification	species	2	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	2	Visual observation from plane	NA	NA	NS	4	
79-0104	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	2,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
79-0105	RS	# shot/location	seals shot/community	61	Hunter interviews	NA	NA	NS	2	Note 2
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	50	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immedi-	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0071 (cont'd)		standard length	cm	129	Field examination	NA	NA	NS	4	
		nose to hind flipper length	cm	123	Field examination	NA	NA	NS	4	
		heart girth	cm	129	Field examination	NA	NA	NS	4	
		maximum girth	cm	32	Field examination	NA	NA	NS	4	
		blubber thickness:								
		neck	cm	129	Field examination	NA	NA	NS	4	
		chest	cm	129	Field examination	NA	NA	NS	4	
		belly	cm	129	Field examination	NA	NA	NS	4	
		# cementum annuli: canines	annuli/tooth/seal	119	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		# claw annuli	annuli/claw/seal	NS	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	
		degree of scarring	relative	129	Field examination	NA	NA	NA	3, Note 31	Note 2
		genital structure	male, female	123	Field examination	NA	NA	NA	4	
		bacula length	cm	3	Laboratory examination	NA	NA	NS	4	
		bacula weight	mg	3	Laboratory examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0071 (cont'd)		swollen vulva	presence	60	Field examination	NA	NA	NA	3	Notes 2,8
		foetus	presence	60	Field examination	NA	NA	NA	4	Notes 2,8
		breeding odour	presence	129	Field examination	NA	NA	NA	4	Notes 2,8
		milk	presence	60	Field examination	NA	NA	NA	4	Notes 2,8
		corpus luteum	presence	60	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NA	4	Notes 1,2
		corpus albicans	presence	60	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		follicular activity	presence	60	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		scars on uterine horns	presence	60	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		relative stomach fullness	description	129	Field examination	NA	NA	NS	4	Note 8
		stomach contents	presence	129	Field examination	NA	NA	NS	4	Note 8
		stomach contents, wet weight	mg	21	Laboratory examination	NA	NA	NS	NA, Note 32	Note 5
		stomach contents, volume	ml	21	Laboratory examination	NS	NS	NS	NA, Note 32	Note 5
		stomach contents, identification	species	21	Laboratory examination	NS	NS	NS	NA, Note 32	Note 5
		carcass remains, weight	kg or relative	9	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0071 (cont'd)		vocalization rate	# vocalizations/min.	25 recording sessions	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp.	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization frequency	Hz	25 recording sessions	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp.	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	25 recording sessions	Uher 4000 L report tape recorder, LC-50 hydrophone, LG-1324 amp.	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		digging at hole	presence	129	Field examination	NA	NA	NS	4	Note 8
		moulting	description	NS	Field examination	NA	NA	NS	4	Note 8
	BS	# killed/location	seals/miles from points of land	53	RIS	NA	NA	NS	2	Note 7
		identification	species	A	Field examination	NA	NA	NA	NA	
		coat colour	hues	53	Field examination	NS	NA	NA	2	Note 8
		standard length	cm	50	Field examination	NS	NA	NA	4	Note 2
		nose to hind flipper length	cm	50	Field examination	NS	NA	NA	4	Note 2
		heart girth	cm	50	Field examination	NS	NA	NA	4	Note 2
		blubber thickness:								
		neck	cm	50	Field examination	NS	NA	NA	4	Note 2
		chest	cm	50	Field examination	NS	NA	NA	4	Note 2
		belly	cm	50	Field examination	NS	NA	NA	4	Note 2
		# cementum annuli: canines	annuli/tooth/seal	40	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0071 (cont'd)						in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	40	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		degree of scarring	relative	53	Field examination	NA	NA	NS	3	Note 8
		genital structure	male, female	53	Field examination	NA	NA	NS	4	
		swollen vulva	presence	25	Field examination	NA	NA	NS	3	Notes 2,8
		foetus	presence	25	Field examination	NA	NA	NS	4	Notes 2,8
		breeding odour	presence	53	Field examination	NA	NA	NS	3	Notes 2,8
		milk	presence	25	Field examination	NA	NA	NS	4	Notes 2,8
		corpus luteum	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		corpus albicans	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		follicular activity	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0071 (cont'd)		scars on uterine horns	presence	25	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		relative stomach fullness	description	53	Field examination	NA	NA	NS	4	Note 8
		stomach contents	presence	53	Field examination	NA	NA	NA	4	Note 8
		stomach contents, wet weight	mg	NS	Laboratory examination	NS	NS	NA	NA, Note 32	Note 5
		stomach contents, volume	ml	NS	Laboratory examination	NS	NS	NA	NA	Note 5
		stomach contents, identification	species	NS	Laboratory examination	NS	NS	NA	NA	Note 5
		carcass remains, weight	kg or relative	2	Field examination	NA	NA	NS	2	
		relative bladder fullness	description	53	Field examination	NA	NA	NS	4	Note 8
		moulting	description	53	Field examination	NA	NA	NS	4	Note 8
75-0124	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	2,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
75-0125	RS	# shot/location	seals shot/community	65	Hunter interviews	NA	NA	NS	4	
		identification	species	A	Field examination	NA	NA	NA	NA	
		standard length	cm	60	Field examination	NA	NA	NS	2	
		axillary girth	cm	60	Field examination	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0125 (cont'd)		blubber thickness:								
		neck	cm	60	Field examination	NA	NA	NS	2	
		chest	cm	60	Field examination	NA	NA	NS	2	
		belly	cm	60	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	50	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		genital structure	male, female	60	Field examination	NA	NA	NS	3	
		corpus luteum	presence	37	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
		corpus albicans	presence	37	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
		follicular activity	presence	37	Female reproductive tracts examined before fixation wherever possible. Fresh	Tracts fixed and preserved in AFA for subsequent	NA	NS	2	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0125 (cont'd)					ovaries hand sectioned with scalpel and examined.	laboratory examination				
	BS	# shot/location	seals shot/community	16	Hunter interviews	NA	NA	NS	4	
		identification	species	A	Field examination	NA	NA	NA	NA	
		standard length	cm	10	Field examination	NA	NA	NS	2	
		axillary girth	cm	10	Field examination	NA	NA	NS	2	
		blubber thickness:								
		neck	cm	10	Field examination	NA	NA	NS	2	
		chest	cm	10	Field examination	NA	NA	NS	2	
		belly	cm	10	Field examination	NA	NA	NS	2	
		# cementum annuli: canines	annuli/tooth/seal	10	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		genital structure	male, female	10	Field examination	NA	NA	NS	2	
		corpus luteum	presence	7	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0125 (cont'd)		corpus albicans	presence	7	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
		follicular activity	presence	7	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Notes 1,2
75-0126	RS	# observed/aerial transect line	seals/line	25 lines	SAS; Piper Super Cub; 40-60 m; 145 km/h; 0.8 km, 1.6 km	NA	NA	NS	2	Notes 2,4,14
		distance from aircraft	on or off transect	A	Strip width established by flying between two land marks separated by 0.8 km; marking wingstruts	NA	NA	NS	2	
		identification	species	A	Visual obervation from plane	NA	NA	NA	NA	
	BS	# observed/aerial transect line	seals/line	25 lines	SAS; Piper Super Cub; 40-60 m; 145 km/h; 0.8 km, 1.6 km	NA	NA	NS	2	Notes 2,4,14
		# /group	seals/group	7	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	A	Strip width established by flying between two land marks separated by 0.8 km; marking wingstruts	NA	NA	NS	2	
		identification	species	A	Visual obervation from plane	NA	NA	NS	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0132	RS	# observed/location	seals/km from shore or points of land	A	RIS; dog followed by snow machine	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	26 sites	SIS; lairs found by sight	NA	NA	NS	3	
		# lairs/timed dog search	lairs/30 min. search	26 sites 12 lairs	SIS; trained Labrador bitch; lairs found by scent	NA	NA	Same dog used as in 1974	4	
		distance to nearest birth lair complex	m	A	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	NS	Laboratory examination	NS	NS	NS	2	
		# claw annuli	annuli/claw/seal	NS	Field examination; laboratory examination	NS	NS	NS	2	
		breeding odour	presence, rutting male odor	A	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg, estimate	A	Field examination	NA	NA	NS	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NS	4	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	3	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	3	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	3	
		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	11 recording sites	Uher 4000L report tape recorder, LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Tally number of calls	NS	2	
		vocalization frequency	Hz	110 min.	Uher 4000L report tape recorder, LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	110 min. NS	Uher 4000L report tape recorder, LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		vocalization slope	Hz/sec.	110 min.	Uher 4000L report tape recorder, LC-50 hydrophone;	Audiotapes	Kay Sonagraph 7029A	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0132 (cont'd)					LG-1324 amplifier					
		breathing hole diameter	cm	A	Field examination	NA	NA	NS	3	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	3	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	3	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	3	
		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	4	
		entry hole	presence	A	Field examination	NA	NA	NS	4	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	3	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	
		number of entry holes	number	A	Field examination	NA	NA	NS	4	
75-0133	BS	identification	species	3	Field examination	NA	NA	NA	NA	Note 7
		standard length	cm	3	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	3	Field examination	NA	NA	NS	3	
		total body weight	kg	NS	Field examination	NA	NA	NS	2	
		blubber thickness: chest	mm	3	Field examination	NA	NA	NS	3	
		# cementum annuli: canines	annuli/tooth/seal	3	Teeth embedded in Ward's Bioplastic	NS	Sectioned to 100 u on dental research saw; dissecting microscope and transmitted light	Age estimates derived using teeth annuli counts compared to counts obtained using claw annuli counts from same individual	2	Note 2
		# claw annuli	annuli/claw/seal	3	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which	2	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
75-0133 (cont'd)								yielded different age estimates given; sample spans 7 data sets		
		canine cementum length	mm	3	Laboratory examination	NS	NA	NS	2	Note 2
		canine length	mm	3	Laboratory examination	NS	NA	NS	2	Note 2
		genital structure	male, female	3	Field examination	NA	NA	NS	4	
		bacula length	mm	1	Collected from specimen, then boiled	NS	NA	NS	3	Note 2
		corpus luteum	presence	2	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	3	Note 2
		corpus luteum diameter (max.)	NS	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		corpus albicans diameter (max.)	NS	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
76-0028	RS	# observed/aerial transect line (outer)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	Differences among observers and	4	Note 4
		# observed/aerial transect line (inner)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	inner-outer transects calculated.	4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	Left-right was 11.37% and outer-inner was 43.46%.	4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	(as above) (as above)	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0028 (cont'd)		# unattended holes/ aerial transect line (outer)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	Note 4
		# observed/aerial transect line (inner)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0028 (cont'd)		# unattended holes/ aerial transect line (inner)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 250-338 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
76-0029	RS	# observed/location	seals/miles from point of land	A	RAS; Bell 206; NS; NS; NS	NA	NA	NS	2	Note 3
		identification	species	50%	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	A	Visual observation from plane	NA	NA	NS	4	
	BS	# observed/location	seals/miles from point of land	A	RAS; Bell 206; NS; NS; NS	NA	NA	NS	2	Note 3
		identification	species	50%	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	A	Visual observation from plane	NA	NA	NS	4	
76-0031	RS	# observed/location	seals/general	A	RVS; 5.5 m Lund; NS; 0-NS; NS	NA	NA	NS	2	Note 3
		distance from vessel	feet	1	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0031 (cont'd)		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
		vocalization rate	# vocalizations/min.	NS	Hewlett-Packard Model 3960 and Ithaco 451 pre-amplifier and 4113 variable filter and Celesco BC-10 hydrophone	Audiotapes	Honeywell SAI-51B real time spectrum analyser	NS	2	
		vocalization frequency	Hz	NS	Hewlett-Packard Model 3960 and Ithaco 451 pre-amplifier and 4113 variable filter and Celesco BC-10 hydrophone	Audiotapes	Honeywell SAI-51B real time spectrum analyser	NS	2	
		vocalization duration	sec.	NS	Hewlett-Packard Model 3960 and Ithaco 451 pre-amplifier and 4113 variable filter and Celesco BC-10 hydrophone	Audiotapes	Honeywell SAI-51B real time spectrum analyser	±0.1 sec.	2	
76-0032	UP	# observed/location	seals/Lat. & Long.	2 sites, 45 seals	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	
		# /group	seals/group	29	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	feet, yards, miles	4	Visual observation from vessel	NA	NA	NS	2	
		# holes/location	holes/Lat. & Long.	NS	Visual observation from vessel	NA	NA	±1' Lat. & Long.	2	
		coat colour	hues	13	Visual observation from vessel	NA	NA	NS	2	
		length	feet	1	Visual observation from vessel	NA	NA	±0.3 m	2	
		size	small, fat	2	Visual observation from vessel	NA	NA	NS	2	
		markings	description	2	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0032 (cont'd)		in vicinity of buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	Note 8
	WA	# observed/location	walrus/Lat. & Long.	2	Incidental report	NA	NA	±1' Lat. & Long.	2	
		identification	species	2	Field examination	NA	NA	NA	NA	
		distance between individuals	relative	2	Field examination	NA	NA	NS	2	Note 8
76-0104	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	5,000	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
76-0105	RS	# shot/location	seals shot/community	81	Hunter interviews	NA	NA	NS	4	
		identification	species	81	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	81	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0105 (cont'd)						10 um thick	counted			
		genital structure	male, female	80	Field examination	NA	NA	NS	3	
		corpus leuteum	presence	28	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	3	
		corpus albicans	presence	28	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	3	
		follicular activity	presence	28	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	3	
76-0106	RS	# killed/location	seals/miles from point of land	13	RIS	NA	NA	NS	2	Note 7
		identification	species	13	Field examination	NA	NA	NA	NA	
		standard length	cm	9	Field examination	NA	NA	NS	3	
		heart girth	cm	9	Field examination	NA	NA	NS	3	
		# cementum annuli: canines	annuli/tooth/seal	9	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a fil-	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0106 (cont'd)							tered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		degree of scarring	relative	9	Field examination	NA	NA	NS	3	Note 8
		genital structure	male, female	9	Field examination	NA	NA	NS	4	
		foetus	presence	6	Field examination	NA	NA	NS	4	Notes 2,8
		corpus luteum	presence	6	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		corpus albicans	presence	6	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		follicular activity	presence	6	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		scars on uterine horns	presence	6	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		carcass remains, weight	kg or relative	4	Field examination	NA	NA	NS	2	
		moulting	description	9	Field examination	NA	NA	NS	4	Note 8
	BS	# killed/location	seals/miles from point of land	15	RIS	NA	NA	NS	2	Note 7
		identification	species	15	Field examination	NA	NA	NA	NA	
		standard length	cm	15	Field examination	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0106 (cont'd)		heart girth	cm	15	Field examination	NA	NA	NS	3	
		# cementum annuli: canines	annuli/tooth/seal	15	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		degree of scarring	relative	15	Field examination	NA	NA	NS	3	Note 8
		genital structure	male, female	15	Field examination	NA	NA	NS	4	
76-0108	RS	# observed/location	seals/km from shore or points of land	A	RIS; dog followed by snow machine	NA	NA	NS	2	
		# lairs/area searched	lairs/km^2	5 lairs	RIS; lairs found by scent	NA	NA	NS	3	Note 2
		# lairs/timed dog search	lairs/30 min. search	5 lairs	RIS; trained Labrador bitch; lairs found by scent	NA	NA	NS	3	Note 2
		distance to nearest birth lair complex	m	A	Field examination	NA	NA	NS	3	
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	NS	Laboratory examination	NS	NS	NS	2	
		# claw annuli	annuli/claw/seal	NS	Field examination; laboratory examination	NS	NS	NS	2	
		breeding odour	presence, rutting male odor	A	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
76-0108 (cont'd)		carcass remains, weight	kg	A	Field examination	NA	NA	estimate	2	
		tracks	presence, predator tracks	A	Field examination	NA	NA	NS	4	
		# of tracks	predator tracks, number	A	Field examination	NA	NA	NS	3	
		excrement outside lair	presence	A	Field examination	NA	NA	NS	4	
		blood on lair floor	presence	A	Field examination	NA	NA	NS	4	
		amount of blood on lair floor	description	A	Field examination	NA	NA	NS	2	
		vocalization rate	# vocalizations/min.	NS	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Tally number of calls	NS	2, Note 33	
		vocalization frequency	Hz	NS	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		vocalization duration	sec.	NS	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	±0.1 sec.	2	
		vocalization slope	Hz/sec.	NS	Uher 4000L report tape recorder; LC-50 hydrophone; LG-1324 amplifier	Audiotapes	Kay Sonagraph 7029A	NS	2	
		breathing hole diameter	cm	A	Field examination	NA	NA	NS	3	
		snow depth at lair	cm	A	Field examination	NA	NA	NS	3	
		lair height (max.)	cm	A	Field examination	NA	NA	NS	3	
		lair dimensions (max.)	cm	A	Field examination	NA	NA	NS	3	
		distance to nearest assoc. lair	m	A	Field examination	NA	NA	NS	3	
		lanugo	presence	A	Field examination	NA	NA	NS	4	
		entry hole	presence	A	Field examination	NA	NA	NS	4	
		entry hole diameter	cm	A	Field examination	NA	NA	NS	3	
		entry hole angle	NS	A	Field examination	NA	NA	NS	2	
		number of entry holes	number	A	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0036	RS	# observed/aerial transect line (outer)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	Differences among observers and	4	Note 4
		# observed/aerial transect line (inner)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	inner-outer transects calculated.	4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	Left-right was -9.84% and inner-outer was 12.64%.	4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0036 (cont'd)		# observed attending holes/aerial transect line (outer)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	63 lines	SAS; Cessna 337; 91-152 m; 242-322 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
77-0039	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13
77-0070	RS	# killed/location	seal/miles from point of land	12	RIS	NA	NA	NS	2, Note 30	Note 7
		identification	species	12	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	2	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid;	Teeth stored prior to sectioning in 70% ethanol; teeth	Cut sections placed in water pH 8-9 for at least 20 min., then af-	3 replicates, 2 people	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0070 (cont'd)					decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	soaked in water for 24 h immediately before sectioning to hydrate tissue	fixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	5	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	
		size	adult, pup	7	Field examination	NA	NA	NS	4	
		bear kill	carcass	12	Field examination	NA	NA	NS	4	
		carcass remains, weight	relative	1	Field examination	NA	NA	NS	2	
	BS	# killed/location	seal/miles from points of land	16	RIS	NA	NA	NS	2	
		identification	species	16	Field examination	NA	NA	NA	NA	
		coat colour	hues	16	Field examination	NA	NA	NS	2	
		standard length	cm	16	Field examination	NA	NA	NS	4	
		nose to hind flipper length	cm	16	Field examination	NA	NA	NS	4	
		heart girth	cm	16	Field examination	NA	NA	NS	4	
		maximum girth	cm	16	Field examination	NA	NA	NS	4	
		blubber thickness:								
		neck	cm	16	Field examination	NA	NA	NS	4	
		chest	cm	16	Field examination	NA	NA	NS	4	
		belly	cm	16	Field examination	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0070 (cont'd)		# cementum annuli: canines	annuli/tooth/seal	15	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		# claws annuli	annuli/claw/seal	16	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	
		degree of scarring	relative	16	Field examination	NA	NA	NS	3, Note 31	
		genital structure	male, female	16	Field examination	NA	NA	NS	4	
		swollen vulva	presence	13	Field examination	NA	NA	NS	3	Note 2
		foetus	presence	13	Field examination	NA	NA	NS	4	Note 2
		milk	presence	13	Field examination	NA	NA	NS	4	Note 2
		corpus luteum	presence	13	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		corpus albicans	presence	13	Female reproductive tracts examined before fixation wherever possible. Fresh	Tracts fixed and preserved in AFA for subsequent	NA	NS	4	Notes 1,2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0070 (cont'd)					ovaries hand sectioned with scalpel and examined.	laboratory examination				
		follicular activity	presence	13	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	4	Notes 1,2
		scars on uterine horns	presence	13	Oviducts flushed for eggs and uterine horns opened and examined	NA	NA	NS	4	Notes 1,2
		relative stomach fullness	description	12	Field examination	NA	NA	NS	3	
		stomach contents	presence	12	Field examination	NA	NA	NS	4	
		stomach contents, wet weight	mg	4	Laboratory examination	NS	NS	NA	NA, Note 32	Note 5
		stomach contents, volume	ml	4	Laboratory examination	NS	NS	NA	NA	Note 5
		stomach contents, identification	species	4	Laboratory examination	NS	NS	NA	NA	Note 5
		moulting	description	16	Field examination	NA	NA	NS	4	Note 8
77-0108	RS	# pelts sold/community	seal pelts/person/community	3 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
77-0109	RS	# shot/location	seals shot/community	46	Hunter interviews	NA	NA	NS	4	Note 2
		identification	species	A	Field examination	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0109 (cont'd)		# cementum annuli: canines	annuli/tooth/seal	40	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		genital structure	male, female	40	Field examination	NA	NA	NS	4	Note 2
		corpus luteum	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 2
		corpus albicans	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 2
		follicular activity	presence	25	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	Note 2
77-0110	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0111	BS	identification	species	3	Field examination	NA	NA	NA	NA	Note 7
		standard length	cm	3	Field examination	NA	NA	NS	3	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	3	
		maximum girth	cm	3	Field examination	NA	NA	NS	3	
		blubber thickness: chest	mm	3	Field examination	NA	NA	NS	3	
		# cementum annuli: canines	annuli/tooth/seal	3	Teeth embedded in Ward's Bioplastic	NS	Sectioned to 100 u on dental research saw; dissecting microscope and transmitted light	Age estimates derived using teeth annuli counts compared to counts obtained using claw annuli counts from same individual	2	Note 2
		# claw annuli	annuli/claw/seal	3	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Notes 1,2
		canine cementum length	mm	3	Laboratory examination; NS	NS	NA	NS	2	Note 2
		canine length	mm	3	Laboratory examination; NS	NS	NA	NS	2	Note 2
		genital structure	male, female	3	Field examination	NA	NA	NS	4	
		bacula length	mm	1	Collected from specimen, then boiled	NS	NA	NS	3	Note 2
		corpus luteum	presence	2	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	3	Note 2
		corpus luteum diameter (max.)	NS	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0111 (cont'd)		corpus albicans diameter (max.)	NS	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	2	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
77-0112	BS	identification	species	1	Field examination	NA	NA	NA	NA	Note 7, chemical analyses data set no. 78-0017
		standard length	cm	1	Field examination	NA	NA	NS	4	
		crown to rump length, foetus	mm	NS	Field examination	NA	NA	NS	4	
		maximum girth	cm	1	Field examination	NA	NA	NS	4	
		blubber thickness: chest	mm	1	Field examination	NA	NA	NS	4	
		# cementum annuli: canines	annuli/tooth/seal	1	Teeth embedded in Ward's Bioplastic	NS	Sectioned to 100 u on dental research saw; dissecting microscope and transmitted light	Age estimates derived using teeth annuli counts compared to counts obtained using claw annuli counts from same individual	2	
		# claw annuli	annuli/claw/seal	1	Field examination; laboratory examination	NS	NS	Proportion of claws (13 of 21) from the same flipper which yielded different age estimates given; sample spans 7 data sets	2	Notes 1,2
		canine cementum length	mm	1	Laboratory examination	NS	NA	NS	2	Note 2
		canine length	mm	1	Laboratory examination	NS	NA	NS	2	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
77-0112 (cont'd)		genital structure	male, female	1	Field examination	NA	NA	NS	3	
		corpus luteum	presence	1	Repro tracts collected in field; laboratory examination	10% Formalin	Magnifying lamp	NS	3	Note 2
		corpus luteum diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		corpus albicans diameter (max.)	NS	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
		# follicles (>5 mm diameter)	# follicles	1	Repro tracts collected in field; laboratory examination; ovaries sectioned	10% Formalin	Magnifying lamp	NS	2	Note 2
78-0015	RS	# observed/aerial transect line (outer)	seals/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	Differences among observers and inner-outer transects calculated. Left-right was -4.55% and inner-outer was 1.44%.	4	Note 4
		# observed/aerial transect line (inner)	seals/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	(as above)	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0015 (cont'd)		# observed along ice crack/aerial transect line (inner)	seals at crack/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	Note 4
		# observed/aerial transect line (inner)	seals/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	62 lines	SAS; Cessna 337; 152 m; 242 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0015 (cont'd)		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
78-0027	RS	# observed/location	seals/general	8 sites	Incidental reports; vessel watch	NA	NA	NS	2	Note 16
		# /group	seals/group	13	Visual observation from vessel	NA	NA	NS	3	Note 15
		identification	species	37	Visual observation from vessel	NA	NA	NS	NA	Note 15
		coat colour	hues	1	Visual observation from vessel	NA	NA	NS	2	
	BS	# observed/location	seals/general	8 sites	Incidental reports; vessel watch	NA	NA	NS	2	Note 16
		identification	species	1	Visual observation (on basis of size)	NA	NA	NS	NA	Note 15
	UP	# observed/location	seals/general	8 sites, 204 seals	Incidental reports; vessel watch	NA	NA	NS	2	Notes 15,16
		# attended holes/ location	seals at holes/general	2	Incidental reports; vessel watch	NA	NA	NS	2	
		# /group	seals/group	45	Visual observation from vessel	NA	NA	NS	3	
		# holes/location	relative	1	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	miles, relative	9	Visual observation from vessel	NA	NA	NS	2	
		coat colour	hues	2	Visual observation from vessel	NA	NA	NS	2	
		markings	description	2	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0027 (cont'd)		bear kill	presence, carcass	3	Visual observation from vessel	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	NS	Visual observation from vessel	NA	NA	NS	3	
		contact with buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	Note 8
		in vicinity of buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	
	WA	# observed/location	walrus/general	8 sites	Incidental report; vessel watch	NA	NA	NS	2	Note 16
		# /group	walrus/group	2	Visual observation from vessel	NA	NA	NS	3	
		identification	species	3	Visual observation from vessel	NA	NA	NA	NA	
	HB	# observed/location	seals/general	8 sites	Incidental report; vessel watch	NA	NA	NS	2	Note 16
		# /group	seals/group	4	Visual observation from vessel	NA	NA	NS	3	
		identification	species	4	Visual observation from vessel	NA	NA	NS	1, Note 25	Note 15
78-0102	RS	# pelts sold/community	seal pelts/person/community	3 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	2,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
78-0103	RS	# shot/location	seals shot/community	53	Hunter interviews	NA	NA	NS	4	
		identification	species	A	Field examination	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0103 (cont'd)		# cementum annuli: canines	annuli/tooth/seal	45	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	
		genital structure	male, female	45	Field examination	NA	NA	NS	3	
		corpus luteum	presence	30	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	
		corpus albicans	presence	30	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	
		follicular activity	presence	30	Female reproductive tracts examined before fixation wherever possible. Fresh ovaries hand sectioned with scalpel and examined.	Tracts fixed and preserved in AFA for subsequent laboratory examination	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0104	RS	# killed/location	seals/general, miles from point of land	20	RIS	NA	NA	NS	2	Notes 2,7
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	20	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		# claw annuli	annuli/claw/seal	20	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		genital structure	male, female	NS	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg	NS	Field examination	NA	NA	estimate	2	
	BS	# killed/location	seals/general, miles from point of land	10	RIS	NA	NA	NS	2	Notes 2,7
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	5	Laboratory examination; teeth collected from specimen; teeth decalcified in	Teeth stored prior to sectioning placed	Cut sections placed in water pH 8-9 for at least	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
78-0104 (cont'd)					buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	5	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		genital structure	male, female	5	Field examination	NA	NA	NS	4	Note 2
		carcass remains, weight	kg	5	Field examination	NA	NA	estimate	2, Note 35	Note 2
78-0105	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13
79-0027	RS	# observed/location	seals/relative to vessel location; general; or Lat. & Long.	A	RIS; tugboat; NS; 13-19 km/h; NS; incidental reports	NA	NA	±1' Lat. & Long.	2	Note 3
		# /group	seals/group	A	Visual observation from vessel	NA	NA	NS	3 2	
		distance from vessel	NS	NS	NS	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0027 (cont'd)	BS	# observed/location	seals/relative to vessel location; general; Lat. & Long.	NS	RVS; tugboat; NS; 13-19 km/h; NS; incidental reports	NA	NA	±1' Lat. & Long.	2	Note 3
		# /group	seals/group	A	Visual observation from vessel	NA	NA	NS	3	
		distance from vessel	NS	NS	NS	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel	NA	NA	NA	NA	
79-0028	RS	# observed/aerial transect line (outer)	seals/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	Differences among observers and inner-outer transects calculated.	4	Note 4
		# observed/aerial transect line (inner)	seals/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	Left-right was -21.04% and inner-outer was 18.84%.	4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	Four transects reflown at end of each survey.	4	
		# unattended holes/aerial transect line (outer)	holes/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/aerial transect line (inner)	holes/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0028 (cont'd)		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	67 lines	SAS; Cessna 337; 91-152 m; 222 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0030	RS	# killed/location	seals/general, miles from points of land	20	RIS	NA	NA	NS	2	Note 2
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	15	Laboratory examination; teeth collected from specimen; teeth decalcified in buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	Teeth stored prior to sectioning in 70% ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	Cut sections placed in water pH 8-9 for at least 20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted	3 replicates, 2 people	4	Note 2
		# claw annuli	annuli/claw/seal	15	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		genital structure	male, female	NS	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg	NS	Field examination	NA	NA	estimate	2	
	BS	# killed/location	seals/general, miles from points of land	5	RIS	NA	NA	NS	2	Note 2
		identification	species	A	Field examination	NA	NA	NA	NA	
		# cementum annuli: canines	annuli/tooth/seal	3	Laboratory examination; teeth collected from specimen; teeth decalcified in	Teeth stored prior to sectioning placed	Cut sections placed in water pH 8-9 for at least	3 replicates, 2 people	4	Note 2

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0030 (cont'd)					buffered 25% formic acid; decalcified teeth washed 12-15 h in running tap water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	ethanol; teeth soaked in water for 24 h immediately before sectioning to hydrate tissue	20 min., then affixed to glass slide with egg albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
		# claw annuli	annuli/claw/seal	3	Laboratory examination	NS	Claws cleaned in laboratory, moistened on the surface, and annual laminae counted	NS	2	Note 2
		genital structure	male, female	NS	Field examination	NA	NA	NS	4	
		carcass remains, weight	kg, estimate	NS	Field examination	NA	NA	NS	2	
79-0031	RS	# observed/location	seals/general	8 sites	Incidental reports; vessel watch	NA	NA	NS	2	Notes 2,15,16
		# /group	seals/group	14	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	24	Visual observation from vessel	NA	NA	NA	NA	
	UP	# observed/location	seals/general	8 sites, 416 seals	Incidental reports; vessel watch	NA	NA	NS	2	Note 16

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0031 (cont'd)		# /group	seals/group	38	Visual observation from vessel	NA	NA	NS	2	Note 2
		coat colour	hues	12	Visual observation from vessel	NA	NA	NS	2	
		age class	young, pups	>1	Visual observation from vessel	NA	NA	NS	2	Note 2
	WA	# observed/location	seals/general	8 sites	Incidental reports; vessel watch	NA	NA	NS	2	Note 16
		identification	species	3	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	walrus on ice surface	1	Visual observation from vessel	NA	NA	NS	3	
	HB	# observed/location	seals/general	8 sites	Incidental reports; vessel watch	NA	NA	±1 seal	2	Note 16
		# /group	seals/group	28	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative	2	Visual observation from vessel	NA	NA	NS	2	
		identification	species	36	Visual observation from vessel	NA	NA	NA	NA	
		heading	compass points	2	Visual observation from vessel	NA	NA	NS	2	
79-0033	RS	# observed/location	seals/km from point of land; general	A	RAS; Bell 206 helicopter; 30 m; 110 km/h; 400 m; shore watch, along shore and 50 m inland	NA	NA	NS	2	
		# observed/aerial transect line	seals/line	11 lines	SAS; Cessna 337, Twin Otter; 100 m; 220 km/h; 800 m	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
79-0105 (cont'd)					water; imbedded in Lab-tech compound; cut on a cryostat at -10 to -20°C; longitudinal sections 10 um thick	ately before sectioning to hydrate tissue	albumen; slides dried 30-45 min. at room temperature; sections stained in a filtered 0.032% aqueous solution Toluylene Blue; annuli in cementum counted			
79-0106	RS	# observed/location	seals/NS	A	Vessel watch; Class 4 icebreaker; NA; NS; NS	NA	NA	NS	2, Note 35	Note 2
		# /group	seals/group	3	Visual observation from vessel	NA	NA	NS	3	
		Identification	species	A	Visual observation from vessel	NA	NA	NA	NA	
		diving during approach by vessel	seal enters water	A	Visual observation from vessel	NA	NA	NS	3	
	BS	# observed/location	seals/NS	A	Vessel watch; Class 4 icebreaker; NA; NS; NS	NA	NA	NS	NA	Notes 2,12
		# /group	seals/group	0	Visual observation from vessel	NA	NA	NS	NA	Note 12
		Identification	species	0	Visual observation from vessel	NA	NA	NA	NA	Note 12
79-0107	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13
80-0019	RS	# observed/location	seals/Lat. & Long., general	A	RAS; Grumman Turbo Goose, Cessna 337; NS; NS; NS RVS; 15 m seiner, 15 m ketch; NS; NS; NS	NA	NA	±1' Lat. & Long.	2, Note 35	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0019 (cont'd)		# observed/aerial transect line	seals/line	28 lines	SAS; Grumman Turbo Goose; NS; NS; NS	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation from vessel and plane	NA	NA	NS	3	
		identification	species	NS	NS	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long., general	A	RAS; Grumman Turbo Goose, Cessna 337; NS; NS; NS RVS; 15 m seiner, 15 m ketch; NS; NS; NS	NA	NA	±1' Lat. & Long.	2, Note 35	
		# observed/aerial transect line	seals/line	28 lines	SAS; Grumman Turbo Goose; NS; NS; NS	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation from vessel and plane	NA	NA	NS	2	
		identification	species	NS	NS	NA	NA	NA	NA	
80-0021	RS	# observed/location	seals/NS	A	RAS; NS; NS; NS; NS RVS; 18 m ketch, 16 m crew-boat; 3.6 m; NS; NS	NA	NA	NS	2, Note 35	Note 3
		# /group	seals/group	A	Visual observations from plane and vessel	NA	NA	NS	2	
		identification	species	NS	Visual observations from plane and vessel	NA	NA	NA	NA	
	BS	# observed/location	seals/NS	A	RAS; NS; NS; NS; NS RVS; 18 m ketch, 16 m crew-boat; 3.6 m; NS; NS	NA	NA	NS	2, Note 35	Note 3
		# /group	seals/group	A	Visual observations from plane and vessel	NA	NA	NS	2	
		identification	species	NS	Visual observations from plane and vessel	NA	NA	NA	NA	
80-0022	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 80-305 m; 183-201 km/h; NS	NA	NA	0.37 km/h accuracy of navigation	2	Notes 3,11,14

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0022 (cont'd)								system; ±0.1' Lat. & Long.		
		# /group	seals/group	1	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 80-305 m; 183-201 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	1	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
80-0023	RS	# observed/location	seals/Lat. & Long.	8 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2, Note 34	Note 16
		# /group	seals/group	58	Visual observation from vessel	NA	NA	NS	2	
		identification	species	80	Visual observation from vessel	NA	NA	NA	NA	
		age class	adult, pup	3	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	9	Visual observation from vessel	NA	NA	NS	3	
	BS	# observed/location	seals/Lat. & Long.	8 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2, Note 34	Note 16
		# /group	seals/group	16	Visual observation from vessel	NA	NA	NS	2	
		identification	species	16	Visual observation from vessel	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0023 (cont'd)	UP	# observed/location	seals/Lat. & Long.	8 sites, 155 seals	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Notes 15,16
		# /group	seals/group	60	Visual observation from vessel	NA	NA	±1' Lat. & Long.	2	Note 15
		distance from vessel	nautical miles	29	Visual observation from vessel	NA	NA	NS	2	
		coat colour	hues	1	Visual observation from vessel	NA	NA	NS	2	
		age class	adult, pup	1	Visual observation from vessel	NA	NA	NS	2	
		heading	compass points	1	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	68	Visual observation from vessel	NA	NA	NS	3	
	WA	# observed/location	walrus/Lat. & Long.	8 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2, Note 25	Note 16
		# /group	walrus/group	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	1	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	walrus on ice surface	1	Visual observation from vessel	NA	NA	NS	3	
	HB	# observed/location	seals/Lat. & Long.	8 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	6	Visual observation from vessel	NA	NA	NS	2	
		identification	species	9	Visual observation from vessel	NA	NA	NA	1, Note 25	
80-0024	RS	# observed/aerial transect line (outer)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	Difference between observers was 4%.	4	Note 4

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0024 (cont'd)		# observed/aerial transect line (inner)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	Difference between inner-outer transect was 12.5%.	4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0024 (cont'd)		# observed attending holes/aerial transect line (inner)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 194-296 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		Identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
80-0025	RS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 168-610 m; 148-185 km/h; NS RVS; 14 m ketch; 16.1 m crewboat; NS; NS; NS shore watch	NA	NA	±1' Lat. & Long.	3, Note 34	Notes 3,5,11
		# observed/aerial transect line	seals/line	55 lines	SAS; Islander; 610 m; 185 km/h; 0.8 km	NA	NA	NS	2	Note 11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		Identification	species	A	Visual observation from plane	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0025 (cont'd)		assoc. with birds	seen at the same time	A	Visual observation from plane	NA	NA	NS	4	Note 8
		assoc. with whales	seen at the same time	A	Visual observation from plane	NA	NA	NS	4	Note 8
	BS	# observed/location	seals/Lat. & Long.	NS	RAS; Islander; 168-610 m; 148-185 km/h; NS RVS; 14 m ketch; 16.1 m crewboat; NS; NS; NS shore watch	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# observed/aerial transect line	seals/line	55 lines	SAS; Islander; 610 m; 185 km/h; 0.8 km	NA	NA	NS	2	Note 11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
80-0026	RS	# observed/aerial transect line	seals/line	54 lines	SAS; Twin Otter, Islander; 150-300 m; 241 km/h; 1.6 km	NA	NA	NS	2	Note 3
		# /group	seals/group	370	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	2,231	NS	NA	NA	NS	2	
		identification	species	2,231	Visual observation from plane	NA	NA	NA	NA	
		heading	compass points	13	Visual observation from plane	NA	NA	NS	2	
		porpoising	presence, group diving and surfacing at same time	NS	Visual observation from plane	NA	NA	NS	3, Note 34	Note 8
		synchronous diving	presence, group diving at same time	NS	Visual observation from plane	NA	NA	NS	3, Note 34	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0027	RS	# observed/location	seals/general	A	Vessel watch; observation point 16 m ASL; 8x40 binoculars and 20-40 zoom telescope	NA	NA	NS	2	Note 15
		# observed/vessel transect line	seals/line	11 lines	RVS; 16.2 m vessel; NS; NS; 150-300 m	NA	NA	NS	2	Includes some sightings made in 80-0021
		# /group	seals/group	A	Visual observation from vessel	NA	NA	NS	3	Note 15
		distance from vessel	on or off transect, m, relative	A	NS and visual observation from vessel	NA	NA	NS	2	
		identification	species	A	Visual observation from vessel	NA	NA	NA	NA	
	BS	# observed/location	seals/general	A	Vessel watch; observation point 16 m ASL; 8x40 binoculars and 20-40 zoom telescope	NA	NA	NS	2	
		# observed/vessel transect line	seals/line	11 lines	RVS; 16.2 m vessel; NS; NS; 150-300 m	NA	NA	NS	2, Note 35	Includes some sightings made in 80-0021
		# /group	seals/group	2	Visual observation from vessel	NA	NA	NS	3	
		distance from vessel	m	1	NS	NA	NA	NS	2	
		identification	species	2	Visual observation from vessel	NA	NA	NA	NA	
		coat colour	hues	1	Visual observation from vessel	NA	NA	NS	2	
		backbone position	prominant, normal	1	Visual observation from vessel	NA	NA	NS	3	
		eye position	sunken, normal	1	Visual observation from vessel	NA	NA	NS	3	
		position in water	high, normal	1	Visual observation from vessel	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0029	UP	# observed/aerial transect line	seals/line	297 lines	SAS; Cessna 337; 304 m; 193 km/h; 1.6 km	NA	NA	NS	2	Notes 3,4
80-0095	RS	# pelts sold/community	seal pelts/person/community	5 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	1,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
80-0096	RS	# observed/location	seals/NS	A	RAS; Bell 206 helicopter; 30 m; 100-110 km/h; ice-breaker track width	NA	NA	NS	2, Note 34	
		# observed/aerial transect line	seals/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed attending holes/aerial transect line	seals at hole/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# unattended holes/aerial transect line	holes/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed along ice crack/aerial transect line	seals at crack/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	783	NS	NA	NA	NS	2	
		identification	species	783	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	783	Visual observation from plane	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0096 (cont'd)	BS	# observed/location	seals/NS	A	RAS; Bell 206 helicopter; 30 m; 100-110 km/h; ice-breaker track width	NA	NA	NS	2	
		# observed/aerial transect line	seals/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed attending holes/aerial transect line	seals at hole/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# unattended holes/ aerial transect line	holes/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed along ice crack/aerial transect line	seals at crack/line	87 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# /group	seals/group	>21	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	25	NS	NA	NA	NS	2	
		identification	species	58	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	58	Visual observation from plane	NA	NA	NS	4	
80-0097	RS	# observed/aerial transect line	seals/line	20 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed attending holes/aerial transect line	seals at hole/line	20 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# unattended holes/ aerial transect line	holes/line	20 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# observed along ice crack/aerial transect line	seals at crack/line	20 lines	SAS; Twin Otter; 100 m; 240 km/h; 1.0 km	NA	NA	NS	3	Note 4
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	679	NS	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
80-0097 (cont'd)		identification	species	679	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	679	Visual observation from plane	NA	NA	NS	4	
80-0098	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13
80-0099	RS	# observed/location	seals/general	A	RVS; NS; NS; NS	NA	NA	NS	2	
		# observed/aerial transect line	seals/line	50 lines	SAS; Cessna 185; 15-35 m; 120-195 km/h; 360 m	NA	NA	NS	2	
		distance from aircraft	on or off transect	18	Struts marked; angle of sight established by flying over runway targets	NA	NA	NS	2	
		identification	species	18	Visual observation from plane or vessel	NA	NA	NA	NA	
	BS	# observed/aerial transect line	seals/line	50 lines	SAS; Cessna 185; 15-35 m; 120-195 km/h; 360 m	NA	NA	NS	2	
		distance from aircraft	on or off transect	3	Struts marked; angle of sight established by flying over runway targets	NA	NA	NS	2	
		identification	species	3	Visual observation from plane or vessel	NA	NA	NA	NA	
81-0024	RS	# observed/aerial transect line (outer)	seals/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	Densities recorded by left-right observers compared. Densities recorded inner-outer transects compared.	4	Note 4
		# observed/aerial transect line (inner)	seals/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0024 (cont'd)		# unattended holes/ aerial transect line (outer)	holes/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0024 (cont'd)		# unattended holes/ aerial transect line (inner)	holes/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	61 lines	SAS; Cessna 337; 152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
81-0025	RS	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	78	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative, m, feet	33	Visual observation from vessel	NA	NA	NS	2	
		identification	species	98	Visual observation from vessel	NA	NA	NA	NA	
		heading	compass points	1	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	10	Visual observation from vessel	NA	NA	NS	3	
		in vicinity buoys/ cables	description	4	Visual observation from vessel	NA	NA	NS	3	
	BS	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0025 (cont'd)		# /group	seals/group	27	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative, m, feet	9	Visual observation from vessel	NA	NA	NS	2	
		identification	species	29	Visual observation from vessel	NA	NA	NA	NA	
		size	large, small	2	Visual observation from vessel	NA	NA	NS	2	
		age class	adult, pup	3	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	3	Visual observation from vessel	NA	NA	NS	3	
		diving during approach by vessel	seal enters water	1	Visual observation from vessel	NA	NA	NS	3	
	UP	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	217	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative, m	23	Visual observation from vessel	NA	NA	NS	2	
		coat colour	hues	1	Visual observation from vessel	NA	NA	NS	2	
		size	large, small	9	Visual observation from vessel	NA	NA	NS	2	
		age class	adult, pup	1	Visual observation from vessel	NA	NA	NS	2	
		fish in mouth	description	1	Visual observation from vessel	NA	NA	NS	2	
		heading	relative to ship & compass points	2	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	46	Visual observation from vessel	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0025 (cont'd)		in vicinity of buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	
		diving during approaching vessel	seal enters water	1	Visual observation from vessel	NA	NA	NS	3	
	WA	# observed/location	walrus/Lat. & Long., general	9 sites	incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	walrus/group	3	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	km	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	3	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	walrus on ice surface	3	Visual observation from vessel	NA	NA	NS	3	
	HB	# observed/location	seals/Lat. & Long., general	9 sites	incidental reports; vessel watch	NA	NA	±50 seals; ±1' Lat. & Long.	2	Note 16
		# /group	seals/group	45	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative	5	Visual observation from vessel	NA	NA	NS	2	
		identification	species	211	Visual observation from vessel	NA	NA	NA	1, Note 25	
		size	large, small	1	Visual observation from vessel	NA	NA	NS	2	
		age class	adult, pup	3	Visual observation from vessel	NA	NA	NS	2	
		bear kill	presence/carcass	1	Visual observation from vessel	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	172	Visual observation from vessel	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0026	RS	# observed/aerial transect line	seals/line	206 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 2.0 km	NA	NA	NS	2	Notes 3,5
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	A	Suunto PM-5/360S inclinometer	NA	NA	NS	2, Note 33	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/aerial transect line	seals/line	206 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 2.0 km	NA	NA	NS	2	Notes 3,5
		# /group	seals/group	F	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	A	Suunto PM-5/360S inclinometer	NA	NA	NS	2, Note 33	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
81-0027	RS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 194-610 m; 148-185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS shore watch	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# observed/aerial transect line	seals/line	10 lines	SAS; Islander; NS; NS; NS	NA	NA	NS	2, Note 35	Notes 5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at the same time	A; 10 lines	Visual observation from plane	NA	NA	NS	4	Note 8
		assoc. with whales	seen at the same time	A; 10 lines	Visual observation from plane	NA	NA	NS	4	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0027 (cont'd)	BS	# observed/location	seals/Lat. & Long.	NS	RAS; Islander; 194-610 m; 148-185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS shore watch	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# observed/aerial transect line	seals/line	10 lines	SAS; Islander; NS; NS; NS	NA	NA	NS	2, Note 34	Notes 5,11
		# /group	seals/group	F	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
81-0052	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 30-336 m; 222-296 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	2	Visual observation from plane	NA	NA	NS	3	
		identification	species	2	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 30-336 m; 222-296 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	2	Visual observation from plane	NA	NA	NS	3	
		identification	species	3	Visual observation from plane	NA	NA	NA	NA	
81-0097	RS	# pelts sold/community	seal pelts/person/community	4 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	1,500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0097 (cont'd)	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9, 10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
81-0098	RS	# observed/aerial transect line (outer)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	Transects reflown at end of surveys to check repeatability. Inner-outer transects and left-right observers compared. Altitude error monitored	4	Note 4
		# observed/aerial transect line (inner)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA		4	
		# unattended holes/ aerial transect line (outer)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
81-0098 (cont'd)	BS	# observed/aerial transect line (outer)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3, Note 29	Notes 4,12
		# observed/aerial transect line (inner)	seals/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	9 lines	SAS; Cessna 337; 91-152 m; 259 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	0	Visual observation from plane	NA	NA	NS	NA	Note 12
		identification	species	0	Visual observation from plane	NA	NA	NA	NA	Note 12
		diving during fly-by	seal enters water	0	Visual observation from plane	NA	NA	NS	NA	Notes 8,12
81-0099	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 13
82-0001	UP	# observed/aerial transect line	seals/line	110 lines	SAS; Cessna 185; 244-304 m; 193 km/h; 1.6 km	NA	NA	NS	2	Note 3

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0008	RS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 152-518 m; 148-185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at the same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8
		assoc. with whales	seen at the same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 152-518 m; 148-185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
82-0009	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±0.1' Lat. & Long.	2	Note 3
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±0.1' Lat. & Long.	2	Note 3
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0010	RS	# observed/location	seals/Lat. and Long.	A	RAS; Twin Otter; 305 m; 278 km/h; 1.6 km	NA	NA	groups >10; # rounded to nearest 10; ±1' Lat. & Long.	2	Notes 3,4
		# observed/aerial transect line	seals/line	60 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 1.6 km	NA	NA	groups >10; # rounded to nearest 10	3	Note 3
		# /group	seals/group	196	Visual observation from plane	NA	NA	groups >10; group size rounded to nearest 10	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	148	Suunto PM-5/360S inclinometer	NA	NA	NS	2, Note 33	
		identification	species	934	Visual observation from plane	NA	NA	NA	NA	
		coat colour	hues, relative	NS	Visual observation from plane	NA	NA	NS	1, Note 27	
		heading	compass points	4	Visual observation from plane	NA	NA	NS	1, Note 26	
		assoc. with birds	seen at same time	11	Visual observation from plane	NA	NA	NS	4	Note 8
		synchronous diving	presence, group diving at the same time	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 305 m; 278 km/h; 1.6 km	NA	NA	±1' Lat. & Long.	2	
		# observed/aerial transect line	seals/line	60 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 1.6 km	NA	NA	NS	3	
		# /group	seals/group	29	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	32	Suunto PM-5/360S inclinometer	NA	NA	NS	2, Note 33	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0010 (cont'd)		identification	species	32	Visual observation from plane	NA	NA	NA	NA	
		heading	compass points	5	Visual observation from plane	NA	NA	NS	1, Note 26	
82-0011	RS	# observed/aerial transect line (outer)	seals/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	Seal densities for inner-outer transects and for left-right observers were compared.	4	Note 4
		# observed/aerial transect line (inner)	seals/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0011 (cont'd)	BS	# observed/aerial transect line (outer)	seals/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	59 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	R	Visual observation from plane	NA	NA	NS	3	Note 8
82-0029	RS	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	46	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0029 (cont'd)		distance from vessel	relative	F	Visual observation from vessel	NA	NA	NS	2	
		identification	species	68	Visual observation from vessel	NA	NA	NA	NA	
		length	feet	1	Visual observation from vessel	NA	NA	NS	2	Note 15
		size	small	1	Visual observation from vessel	NA	NA	NS	2	
		age class	immature, pup	2	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	4	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	4	Visual observation from vessel	NA	NA	NS	3	
	BS	# observed/location	seals/Lat. & Long. general	9 sites	Incidental reports; vessel watch	NA	NA	±1 seal; ±1' Lat. & Long.	2	Note 16
		# /group	seals/group	22	Visual observation from vessel	NA	NA	±1 seal	2	
		identification	species	46	Visual observation from vessel	NA	NA	NA	NA	
		in vicinity of buoys/ cables	description	3	Visual observation from vessel	NA	NA	NS	3	
	UP	# observed/location	seals/Lat. & Long., general	9 sites, 371 seals	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Notes 15,16
		# /group	seals/group	209	Visual observation from vessel	NA	NA	NS	2	
		age class	adult	1	Visual observation from vessel	NA	NA	NS	2	
		bear kill	presence/carcass	1	Visual observation from vessel	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	19	Visual observation from vessel	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0029 (cont'd)		in vicinity of buoys/ cables	description	14	Visual observation from vessel	NA	NA	NS	3	
	WA	# observed/location	walrus/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	walrus/group	5	Visual observation from vessel	NA	NA	NS	2	
		identification	species	7	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	walrus on ice surface	1	Visual observation from vessel	NA	NA	NS	3	
	HB	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	35	Visual observation from vessel	NA	NA	NS	2	
		identification	species	43	Visual observation from vessel	NA	NA	NA	1, Note 25	
		age class	adult, young	4	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	5	Visual observation from vessel	NA	NA	NS	3	
		assoc. with birds	seen at same time	1	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	2	Visual observation from vessel	NA	NA	NS	3	
	HA	# observed/location	seals/Lat. & Long., general	9 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	1	Visual observation from vessel	NA	NA	NA	1, Note 25	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0029 (cont'd)		in vicinity of buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	
82-0049	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; 40-458 m; 222-296 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2, Note 34	Notes 3,11,14
		# /group	seals/group	1	Visual observation from plane	NA	NA	NS	3	
		identification	species	1	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; 40-458 m; 222-296 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	3	Visual observation from plane	NA	NA	NS	3	
		identification	species	3	Visual observation from plane	NA	NA	NA	NA	
82-0092	RS	# pelts sold/community	seal pelts/person/community	2 communities	Hunter responses to fur trader	NA	NA	NS	4	Note 9
		identification	species	500	Field examination by hunter	NA	NA	NA	NA	
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
	UP	# pelts sold/community	seal pelts/person/community	NS	Hunter responses to fur trader	NA	NA	NS	4	Notes 9,10
		selling price/pelt	dollars	A	Fur trader records	NA	NA	NS	4	
82-0096	BS	identification	species	A	Visual observation from ice surface; tape recordings	Audiotapes	Listening to tapes	NS	NA	
		vocalization rate	# vocalizations/min.	629 min.	Uher 4200 stereo recorder, 6050C hydrophone, LC-50	Ampex audiotapes	No. vocalizations heard tallied	Tapes replayed 1-3 times; as much as	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
82-0096 (cont'd)					hydrophone, LG-1324 pre-amplifier			10% difference in number of vocalizations from one listen to the next		
		vocalization frequency	Hz	345	Uher 4200 stereo recorder, 6050C hydrophone, LC-50 hydrophone, LG-1324 pre-amplifier	Ampex audiotapes	Kay Sonagraph 7029A, set on 13dB high shape, using narrow band filter (45 Hz at the 80-8000 Hz setting)	Frequency response of recorder 0.03-16.00 kHz at 9.5 cm/s; response of hydrophones 0.03-75.00 kHz and 0.10-10.00 kHz	4	
		vocalization duration	sec.	345	Uher 4200 stereo recorder, 6050C hydrophone, LC-50 hydrophone, LG-1324 pre-amplifier	Ampex audiotapes	Kay Sonagraph 7029A, set on 13dB high shape, using narrow band filter (45 Hz at the 80-8000 Hz setting)	±0.1 sec.	4	
		vocalization slope	Hz/s	345	Uher 4200 stereo recorder, 6050C hydrophone, LC-50 hydrophone, LG-1324 pre-amplifier	Ampex audiotapes	Kay Sonagraph 7029A, set on 13dB high shape, using narrow band filter (45 Hz at the 80-8000 Hz setting)	NS	2	
		vocalization intensity	relative	NS	Uher 4200 stereo recorder, 6050C hydrophone, LC-50 hydrophone, LG-1324 pre-amplifier	Ampex audiotapes	NS	NS	2	
83-0024	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter, Islander; 305-610 m; 185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2, Note 34	Notes 3,5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0024 (cont'd)		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at the same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8
		assoc. with whales	seen at the same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter, Islander; 305-610 m; 185 km/h; NS RVS; 12.5 m fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
83-0026	RS	# observed/location	seals/Lat. & Long.	A	RAS; Aerocommander; 152-305 m; 218-261 km/h; NS	NA	NA	±1' Lat. & Long.	2	Note 3
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Aerocommander; 152-304 m; 218-261 km/h; NS	NA	NA	±1' Lat. & Long.	2	Note 3
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
83-0027	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 185 km/h; 2.0 km	NA	NA	±1' Lat. & Long.	2	Note 3
		# observed/aerial transect line	seals/line	49 lines, 259 seals	SAS; Twin Otter; 152 m; 185 km/h; 2.0 km	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0027 (cont'd)		# /group	seals/group	44	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	A	Suunto PM-5/360S inclinometer	NA	NA	NS	2	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8
	BS	# observed/aerial transect line	seals/line	49 lines, 43 seals	SAS; Twin Otter; 152 m; 185 km/h; 2.0 km	NA	NA	NS	2	Note 3
		# /group	seals/group	34	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	43	Suunto PM-5/360S inclinometer	NA	NA	NS	2	
		identification	species	43	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at same time		Visual observation from plane	NA	NA	NS	4	Note 8
		haul-out on ice	seal on ice surface		Visual observation from plane	NA	NA	NS	4	
83-0028	UP	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 137-458 m; 222-296 km/h; NS	NA	NA	0.37 km/h accuracy of navigation system; ±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	15	Visual observation from plane	NA	NA	NS	3	
83-0029	RS	# observed/aerial transect line (outer)	seals/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	Navigation system inoperational for 2 sub-areas	3,4	Note 4

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0029 (cont'd)		# observed/aerial transect line (inner)	seals/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	Differences among left-right observers and inner-outer transects possible	3,4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA		3,4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3,4	
		# unattended holes/ aerial transect line (outer)	holes/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3,4	
		# unattended holes/ aerial transect line (inner)	holes/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3,4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3,4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3,4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	3,4	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0029 (cont'd)		# observed attending holes/aerial transect line (inner)	seals at hole/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3	
		# unattended holes/ aerial transect line (outer)	holes/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3	
		# unattended holes/ aerial transect line (inner)	holes/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	64 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
83-0030	RS	# observed/location	seals/Lat. & Long., general	7 sites	incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	52	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	feet, relative	3	Visual observation from vessel	NA	NA	NS	2	Note 15
		identification	species	123	Visual observation from vessel	NA	NA	NA	NA	
		age class	adult, pup	9	Visual observation from vessel	NA	NA	NS	2	
		fish in mouth	description	1	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0030 (cont'd)		haul-out on ice	seal on ice surface	11	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	2	Visual observation from vessel	NA	NA	NS	3	
	BS	# observed/location	seals/Lat. & Long., general	7 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# attending holes/ location	seals at hole/Lat. & Long., general	2	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	
		# /group	seals/group	42	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	75	Visual observation from vessel	NA	NA	NA	NA	
		size	fat	1	Visual observation from vessel	NA	NA	NS	2	
		age class	adult, pup	4	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	19	Visual observation from vessel	NA	NA	NS	3	
	UP	# observed/location	seals/Lat. & Long., general	7 sites, 1,054 seals	Incidental reports; vessel watch (7 sites)	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	215	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	feet	3	Visual observation from vessel	NA	NA	NS	2	
		coat colour	hues	31	Visual observation from vessel	NA	NA	NS	2	
		size	large, small	6	Visual observation from vessel	NA	NA	NS	2	Note 15

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0030 (cont'd)		age class	adult, pup	26	Visual observation from vessel	NA	NA	NS	2	
		sex	male, female	1	Visual observation from vessel	NA	NA	NS	2	
		bear kill	presence, carcass	1	Visual observation from vessel	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	525	Visual observation from vessel	NA	NA	NS	3	
		contact with buoys/ cables	description	1	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	6	Visual observation from vessel	NA	NA	NS	3	
		diving during approach by vessel	seal enters water	16	Visual observation from vessel	NA	NA	NS	3	
	WA	# observed/location	walrus/Lat. & Long., general	7 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	walrus/group	2	Visual observation from vessel	NA	NA	NS	2	
		identification	species	2	Visual observation from vessel	NA	NA	NA	NA	
	HB	# observed/location	seals/Lat. & Long., general	7 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	37	Visual observation from vessel	NA	NA	NS	2	
		identification	species	145	Visual observation from vessel	NA	NA	NA	1, Note 25	
		age class	immature	1	Visual observation from vessel	NA	NA	NS	2	
		haul-out on ice	seal on ice surface	2	Visual observation from vessel	NA	NA	NS	3	
	SL	# observed/location	sea lion/Lat. & Long.	7 sites	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
83-0030 (cont'd)		# /group	sea lions/group	1	Visual observation from vessel	NA	NA	NS	2	
		identification	species	3	Visual observation from vessel	NA	NA	NA	1, Note 25	
		haul-out on ice	sea lion on ice surface	3	Visual observation from vessel	NA	NA	NS	3	
83-0051	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; 460 m; 241 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Note 3
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; 460 m; 241 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Note 3
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
	UP	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; 460 m; 241 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Note 3
84-0014	RS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 305-610 m; 185 km/h; NS; NS; NS RVS; 12.5 fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		assoc. with birds	seen at the same time	NS	Visual observation from plane	NA	NA	NS	4	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0014 (cont'd)	BS	# observed/location	seals/Lat. & Long.	A	RAS; Islander; 305-610 m; 185 km/h; NS; NS; NS RVS; 12.5 fishing boat; NS; NS; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5,11
		# /group	seals/group	F	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
84-0015	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±0.1' Lat. & Long.	2	Notes 3,13
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±0.1' Lat. & Long.	2	Notes 3,13
		# /group	seals/group	NS	Visual observation from plane	NA	NA	NS	3	
		identification	species	NS	Visual observation from plane	NA	NA	NA	NA	
84-0016	RS	# observed/location	seals/Lat. & Long., general	A	RAS; Twin Otter; 305 m; 200 km/h; 1.6 km	NA	NA	±1' Lat. & Long.	2	Notes 3,4
		# observed/aerial transect line	seals/line	62 lines	SAS; Twin Otter; 152-457 m; 170-235 km/h; 1.6 km	NA	NA	NS	3	
		# /group	seals/group	80	Visual observation from plane	NA	NA	NS	3	
		identification	species	90	Visual observation from plane	NA	NA	NA	NA	
		heading	compass points	32	Visual observation from plane	NA	NA	NS	1, Note 26	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0016 (cont'd)		haul-out on ice	seal on ice surface	6	Visual observation from plane	NA	NA	NS	4	
		diving during fly-by	seal enters water	2	Visual observation from plane	NA	NA	NS	4	
	BS	# observed/aerial transect line	seals/line	62 lines	SAS; Twin Otter; 152-457 m; 170-235 km/h; 1.6 km	NA	NA	NS	3	Notes 3,4
		# /group	seals/group	13	Visual observation from plane	NA	NA	NS	3	
		identification	species	13	Visual observation from plane	NA	NA	NA	NA	
		coat colour	hues	3	Visual observation from plane	NA	NA	NS	1, Note 27	
		heading	compass points	4	Visual observation from plane	NA	NA	NS	1, Note 26	
		haul-out on ice	seal on ice surface	2	Visual observation from plane	NA	NA	NS	4	
		diving during fly-by	seal enters water	2	Visual observation from plane	NA	NA	NS	4	
84-0017	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 305 m; 200-278 km/h; 2.0 km	NA	NA	±1' Lat. & Long.	2	Notes 3,4
		# observed/aerial transect line	seals/line	78 lines 176 seals	SAS; Twin Otter; 152-305 m; 161-218 km/h; 2.0 km	NA	NA	NS	3	
		# /group	seals/group	101	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	176	Sunnto PM-5/360S inclinometer	NA	NA	±3° suggested	3	
		identification	species	176	Visual observation from plane	NA	NA	NA	NA	
		heading	compass points	4	Visual observation from plane	NA	NA	NS	1, Note 26	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0017 (cont'd)		bear kill	presence, carcass	1	Visual observation from plane	NA	NA	NS	4	
		assoc. with birds	seen at same time	10	Visual observation from plane	NA	NA	NS	4	
		assoc. with whales	seen at same time	2	Visual observation from plane	NA	NA	NS	4	
		synchronous diving	presence, group diving at same time	4	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line	seals/line	78 lines 8 seals	SAS; Twin Otter; 152-305 m; 161-218 km/h; 2.0 km	NA	NA	NS	3	Notes 3,4
		# /group	seals/group	8	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	8	Suunto PM-5/360S inclinometer	NA	NA	±3° suggested	3	
		identification	species	8	Visual observation from plane	NA	NA	NA	NA	
		coat colour	hues	1	Visual observation from plane	NA	NA	NS	1, Note 27	Note 8
		heading	compass points	5	Visual observation from plane	NA	NA	NS	1, Note 26	
84-0018	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 100-458 m; 222-296 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	5	Visual observation from plane	NA	NA	NS	3	
		identification	species	6	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 100-458 m; 222-296 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	9	Visual observation from plane	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0018 (cont'd)		identification	species	9	Visual observation from plane	NA	NA	NA	NA	
	UP	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose; 100-458 m; 222-296 km/h; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,11,14
		# /group	seals/group	26	Visual observation from plane	NA	NA	NS	3	
84-0019	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 150-277 km/h; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 150-277 km/h; NS	NA	NA	±1' Lat. & Long.	2	Notes 3,5
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
84-0020	RS	# observed/location	seals/Lat. & Long. general	A	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Notes 2,16
		# /group	seals/group, description	235	Visual observation from vessel	NA	NA	NS	2	Note 15
		distance from vessel	relative, miles	NS	Visual observation from vessel	NA	NA	NS	2	
		identification	species	892	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	NS	Visual observation from vessel	NA	NA	NS	3	
		assoc. with birds	seen at same time	NS	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	NS	Visual observation from vessel	NA	NA	NS	3	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0020 (cont'd)	BS	# observed/location	seals/Lat. & Long. general	A	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	41	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	m, feet	2	Visual observation from vessel	NA	NA	±0.5 m	2	
		identification	species	77	Visual observation from vessel	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	46	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	3	Visual observation from vessel	NA	NA	NS	3	
	UP	# observed/location	seals/Lat. & Long., general	A; 1,303 seals	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	seals/group	35	Visual observation from vessel	NA	NA	Ranges given for size of 2 sightings	2	
		bear kill	presence, carcass	NS	Visual observation from vessel	NA	NA	NS	3	
		haul-out on ice	seal on ice surface	NS	Visual observation from vessel	NA	NA	NS	3	
		assoc. with birds	seen at the same time	NS	Visual observation from vessel	NA	NA	NS	3	
		in vicinity of buoys/ cables	description	NS	Visual observation from vessel			NS	3	
	WA	# observed/location	walrus/Lat. & Long., general	2	Incidental reports; vessel watch	NA	NA	±1' Lat. & Long.	2	Note 16
		# /group	walrus/group	2	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	relative	2	Visual observation from vessel	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0020 (cont'd)		identification	species	2	Visual observation from vessel	NA	NA	NA	NA	
		coat colour	hues	1	Visual observation from vessel	NA	NA	NS	2	
		tusk length	inches	1	Visual observation from vessel	NA	NA	NS	1, Note 28	
		sex	male, female	1	Visual observation from vessel	NA	NA	NS	1, Note 28	
84-0021	RS	# observed/aerial transect line (outer)	seals/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	Differences among left-right observers and inner-outer transects possible to calculate	4	Note 4
		# observed/aerial transect line (inner)	seals/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA	NA	(as above)	4	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
84-0021 (cont'd)		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8
	BS	# observed/aerial transect line (outer)	seals/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3, Note 29	Note 4
		# observed/aerial transect line (inner)	seals/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	55 lines	SAS; Cessna 337; 91-152 m; 258 km/h; 0.8 km	NA	NA	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		Identification	species	A	Visual observation from plane	NA	NA	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NA	NS	3	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0002	RS	# observed/aerial transect line (outer)	seals/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	Differences among left-right observers, inner-outer transects, and visual-photo method possible to calculate	4	Notes 4,5
		# observed/aerial transect line (inner)	seals/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS		4	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS		4	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	(as above)	4	
		# unattended holes/ aerial transect line (outer)	holes/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	(as above)	4	
		# unattended holes/ aerial transect line (inner)	holes/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	(as above)	4	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	(as above)	4	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	(as above)	4	
		# /group	seals/group	A	Visual observation from plane	NA, photographs	NS	(as above)	4	
		identification	species	A	Visual observation from plane	NA, photographs	NS	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA		NS	3	Note 8

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0002 (cont'd)	BS	# observed/aerial transect line (outer)	seals/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	Notes 4,5
		# observed/aerial transect line (inner)	seals/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# observed attending holes/aerial transect line (outer)	seals at hole/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# observed attending holes/aerial transect line (inner)	seals at hole/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# unattended holes/ aerial transect line (outer)	holes/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# unattended holes/ aerial transect line (inner)	holes/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# observed along ice crack/aerial transect line (outer)	seals at crack/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# observed along ice crack/aerial transect line (inner)	seals at crack/line	26 lines	SAS; Cessna 337, Turbocommander; 152-1230 m; 259 km/h; 0.8 km; 1.6 km	NA, photographs	NS	NS	3	
		# /group	seals/group	A	Visual observation from plane	NA, photographs	NS	NS	3	
		identification	species	A	Visual observation from plane	NA, photographs	NS	NA	NA	
		diving during fly-by	seal enters water	NS	Visual observation from plane	NA	NS	NS	3	Note 8
85-0003	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 305 m; 145-233 km/h; 1.6 km	NA	NA	±1' Lat. & Long.	3	Notes 3,4

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0003 (cont'd)		# observed/aerial transect line	seals/line	118 lines	SAS; Twin Otter; 152-305 m; 145-233 km/h; 1.6 km	NA	NA	NS	3	Notes 3,4
		# /group	seals/group	9	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	12	Suunto PM-5/360S inclinometer, marked windows	NA	NA	NS	3	
		identification	species	12	Visual observation from plane	NA	NA	NA	NA	
		haul-out on ice	seal on ice surface	4	Visual observation from plane	NA	NA	NS	4	
85-0004	RS	# observed/aerial transect line	seals/line	NS	SAS; Twin Otter; 2770-3692 m; 240 km/h; NS	Photographs	NS	NS	2	Notes 3,5
		# /group	seals/group	NS	Visual observation from plane	Photographs	NS	NS	2	Note 5
		identification	species	NS	Visual observation from plane	Photographs	NS	NA	NA	Note 5
	BS	# observed/aerial transect line	seals/line	NS	SAS; Twin Otter; 2770-3692 m; 240 km/h; NS	Photographs	NS	NS	2	Notes 3,5
		# /group	seals/group	NS	Visual observation from plane	Photographs	NS	NS	2	Note 5
		identification	species	NS	Visual observation from plane	Photographs	NS	NA	NA	Note 5
85-0005	RS	# observed/aerial transect line	seals/Lat. & Long.	13 lines	SAS; Twin Otter; 305 m; 190-240 km/h; 1.6 km	NA	NA	±1' Lat. & Long.	3	Notes 3,4
		# /group	seals/group	8	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	8	Suunto PM-5/360S inclinometer, marked windows	NA	NA	NS	3	
		identification	species	8	Visual observation from plane	NA	NA	NA	NA	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0005 (cont'd)		haul-out on ice	seal on ice surface	1	Visual observation from plane	NA	NA	NS	4	
		assoc. with birds	seen at same time	1	Visual observation from plane	NA	NA	NS	4	
	UP	# observed/aerial transect line	seals/Lat. & Long.	13 lines	SAS; Twin Otter; 305 m; 190-240 km/h; 1.6 km	NA	NA	±1' Lat. & Long.	3	Notes 3,4
		# /group	seals/group	1	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	on or off transect	2	Suunto PM-5/360S inclinometer, marked windows	NA	NA	NS	3	
85-0006	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152-305 m; 278 km/h; 2.0 km	NA	NA	±1' Lat. & Long.	2	Notes 3,5
		# observed/aerial transect line	seals/line	54 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 2.0 km	NA	NA	NS	3	
		# /group	seals/group	93	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	107	Suunto PM-5/360S inclinometer	NA	NA	NS	3	
		identification	species	107	Visual observation from plane	NA	NA	NA	NA	
		heading	compass points	14	Visual observation from plane	NA	NA	NS	1, Note 26	
		bear kill	presence, carcass	2	Visual observation from plane	NA	NA	NS	4	
		haul-out on ice	seal on ice surface	3	Visual observation from plane	NA	NA	NS	4	
		assoc. with birds	seen at same time	1	Visual observation from plane	NA	NA	NS	4	
	BS	# observed/aerial transect line	seals/line	54 lines	SAS; Twin Otter; 152-305 m; 200 km/h; 2.0 km	NA	NA	NS	3	Notes 3,5

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0006 (cont'd)		# /group	seals/group	8	Visual observation from plane	NA	NA	NS	3	
		distance from aircraft	seals/degrees from horizontal, on or off transect	8	Suunto PM-5/360S inclinometer	NA	NA	NS	3	
		identification	species	8	Visual observation from plane	NA	NA	NA	NA	
		coat colour	hues	1	Visual observation from plane	NA	NA	NS	1, Note 27	
		size	large, small	1	Visual observation from plane	NA	NA	NS	1, Note 28	
		heading	compass points	4	Visual observation from plane	NA	NA	NS	1, Note 26	
85-0007	RS	# observed/location	seals/NS	NS	RVS; 12.5 m vessel; NA; NS; NS	NA	NA	NS	2	Notes 3,5
		# observed/vessel transect line	seals/line	NS	SVS; 12.5 m vessel; NA; NS; NS	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	NS	NS	NS	NA	NA	NS	2	Note 5
		identification	species	NS	Visual observation from vessel	NA	NA	NA	NA	
		assoc. with whales	seen at same time	NS	Visual observation from vessel	NA	NA	NS	4	
	BS	# observed/location	seals/NS	NS	RVS; 12.5 m vessel; NA; NS; NS	NA	NA	NS	2	Notes 3,5
		# observed/vessel transect line	seals/line	NS	SVS; 12.5 m vessel; NA; NS; NS	NA	NA	NS	2	
		# /group	seals/group	NS	Visual observation from vessel	NA	NA	NS	2	
		distance from vessel	NS	NS	NS	NA	NA	NS	2	

TABLE 2

DATA SET I.D.	SPECIES	MEASUREMENT	UNITS	NO. SAMPLES	MATERIALS AND METHODS				RATING	REMARKS
					STUDY METHOD	STORAGE	ANALYSIS	PRECISION/ACCURACY		
85-0007 (cont'd)		identification	species	NS	Visual observation from vessel	NA	NA	NA	NA	
85-0008	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 5
85-0009	INC	INC	INC	INC	INC	INC	INC	INC	INC	Note 5
85-0010	RS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±1' Lat. & Long.	2	Notes 3,5
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Twin Otter; 152 m; 200 km/h; 2.0 km	NA	NA	±1' Lat. & Long.	2	Notes 3,5
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
85-0011	RS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; INC; INC; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,5,11,14
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	BS	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; INC; INC; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,5,11,14
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	
		identification	species	A	Visual observation from plane	NA	NA	NA	NA	
	UP	# observed/location	seals/Lat. & Long.	A	RAS; Grumman Turbo Goose, Twin Otter; INC; INC; NS	NA	NA	±0.1' Lat. & Long.	2	Notes 3,5,11,14
		# /group	seals/group	A	Visual observation from plane	NA	NA	NS	3	

Data Catalogue Table 3: Sampling Times and Locations

Table 3 presents the sampling times and locations, by method, for each data set. Data sets are listed in chronological order, according to I.D. number; the earliest data sets are listed first. Data sets for which no information or only limited information is available on the specific times or areas sampled are also listed. The information on each data set in this table and the abbreviations used are described below, by column.

Data Set I.D.

Each identification (I.D.) number is unique to a data set; all subsequent references to data sets are by I.D. numbers. The first two digits of the I.D. refer to the last two digits of the year during which the data were gathered; the last four digits of the I.D. is the identifier number for the data set. The subscript $_{18}$ indicates data sets obtained in the 1800's. Data sets are ordered chronologically.

Method

This column indicates the method(s) used to obtain information on seals. All known methods have been listed. Abbreviations used in this column refer to the various types of surveys used, and are defined as follows:

RAS Reconnaissance Aerial Survey
SAS Systematic Aerial Survey
RIS Reconnaissance Ice Survey
SIS Systematic Ice Survey
RVS Reconnaissance Vessel Survey
SVS Systematic Vessel Survey

Time Sampled

The starting and ending dates are given for each method and sampling effort within each data set. If exact dates were not given, then the general time frame (e.g. summer) appears in the table. Not specified ("NS") is used if there is substantial doubt as to the date, or if no date is given.

Sampling is assumed to be continuous unless indicated otherwise. If sampling is known to be discontinuous, but the exact sampling schedule was not available, "discontinuous" or "variable" appear. The former implies a continuous field day with frequent stops and relocations. "Variable" means that many samples were taken opportunistically, and the time intervals between them varied.

Geographic Location

The specific area(s) sampled is (are) indicated in this column. Some data sets have more general entries than others; this is because the amount of available information is insufficient to delineate each location.

Remarks

General remarks are summarized as follows:

Note 5. Samples collected and in storage; analysis incomplete at time this inventory prepared.

Note 7. Includes combination of seals collected by scientists, those killed by polar bears, and/or collected from hunter kills.

Note 13. Data sets unavailable to review for this inventory and not available in published form.

Note 23. Specific sampling dates unknown.

Note 24. Based on lengthy historical accounts which specified sampling dates and locations in a general manner only.

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
1826-0001	RVS	July 05	Aug. 30	variable	see general locations listed in Table 1 and route shown on map	Note 24
1848-0001	RVS	Aug. 03	Aug. 22	variable	see general locations listed in Table 1 and shown on map	Note 24
1862-0001	Shore watch, Hunter interviews	1862	1865	variable	southeast Beaufort, specifically, Franklin Bay and others	Notes 23, 24
1890-0001	RVS	Aug. 20 (1890)	Aug. 27 (1892)	variable	see general locations listed in Table 1	Note 24
1893-0002	RVS	Aug. 21 (1893)	Sep. 03 (1896)	variable	see general locations listed in Table 1	Note 24
1894-0001	Hunter interviews	June 29	Aug. 31	variable	see general locations listed in Table 1	Note 24
1894-0002	Hunter interviews	Aug. 19 (1894)	Aug. 27 (1896)	variable	see general locations listed in Table 1	Note 24
1897-0001	RVS	Aug. 15 (1897)	Sep. (1899)	variable	see general locations listed in Table 1	Note 24
00-0001	Whaler's records	Aug. 05 (1900)	Aug. 14 (1901)	variable	see general locations listed in Table 1	Note 24
03-0002	Whaler's records	Aug. 16 (1903)	Aug. 18 (1906)	variable	see general locations listed in Table 1	Note 24
08-0003	RIS	July 23 (1908)	Aug. 15 (1908)	variable	see general locations listed in Table 1 and shown on maps	Note 24
		Aug. 18 (1909)	Dec. 10 (1910)	variable	see general locations listed in Table 1 and shown on maps	Note 24

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
08-0003 (cont'd)		May 12 (1911)	Sep. 17 (1911)	variable	see general locations listed in Table 1 and shown on maps	Note 24
		Nov.(?) (1911)	Dec. 11 (1911)	variable	see general locations listed in Table 1 and shown on maps	Note 24
		Dec. 29 (1911)	Jan. 30 (1912)	variable	see general locations listed in Table 1 and shown on maps	Note 24
		Feb. 20 (1912)	May 05 (1912)	variable	see general locations listed in Table 1 and shown on maps	Note 24
11-0002	NS	NS	NS	incidental	Herschel Island	Note 23
13-0001	RIS	Mar. 31	Apr.	variable	see general locations listed in Table 1 and shown on maps	Note 24
	RIS	Aug. 09 (1915)	Sep. (1916)	variable	see general locations listed in Table 1 and shown on maps	Note 24
14-0004	NS	NS	NS	incidental	King Point	Note 23
14-0005	Incidental reports	NS	NS	incidental	Dolphin and Union Strait	Note 23
14-0006	Hunter interviews	Sep. 26	Sep. 26	incidental	skull obtained from hunter 68°55'29"N, 115°10'W	
24-0003	Seal caught in fish net	NS	NS	incidental	Aklavik	Note 23
26-0005	Seal caught in fish net	NS	NS	incidental	Herschel Island	Note 21
27-0006	Hunter interviews	NS	NS	variable	Mackenzie Delta	Note 24
31-0007	Incidental reports; hunter interviews	NS	NS	variable	Herschel Island; east branch of Mackenzie River near Reindeer Station	Note 21

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
40-0010	RVS	Aug. 11	Aug. 12	variable	141°W-Herschel Island	
	RVS	Aug. 12	Aug. 12	variable	Herschel Island	
	RVS	Aug. 19	Aug. 21	variable	Herschel Island-Tuktoyaktuk	
	RVS	Aug. 24	Aug. 27	variable	Tuktoyaktuk-Baillie Islands-Cape Parry-Pierce Point	
	RVS	Sep. 19	Sep. 22	variable	Holman Island-De Salis Bay	
	RVS	Sep. 22	Sep. 25	variable	De Salis Bay-Walker Bay	
	RVS	July 31 (1941)	Aug. 04 (1941)	variable	Walker Bay-Holman Island-Cape Parry-Cape Bathurst-Toker Point-Tuktoyaktuk	
	RVS	Aug. 08 (1941)	Aug. 13 (1941)	variable	Tuktoyaktuk-Baillie Islands-Horton River-Franklin Bay-Booth Island-Coppermine	
40-0011	Trader's records	Jan. 01 (25 years)	Dec. 31 (25 years)	continuous opportunities	Cape Parry, Holman trading posts	
42-0002	Incidental reports; hunter interviews	July 10	Oct. 20	variable	itinerary extended from Aklavik to Burnside River, Mackenzie District	
51-0002	RVS	Aug. 15	Aug. 16	variable	141°W-Herschel Island	
		Aug. 19	Aug. 22	variable	Herschel Island-Tuktoyaktuk	
		Aug. 23	Aug. 28	variable	Tuktoyaktuk-Cape Kellett-Norway Island-Storkerson Bay-Cape Kellet-Sachs Harbour-Cape Lambton-Cape Parry	
	RVS	Aug. 30	Sep. 02	variable	Cape Parry-Cape Baring-Inman River-Croker River-De Salis Bay	
	RVS	Sep. 02	Sep. 03	variable	De Salis Bay-Holman Island-Cape Wollaston-Minto Inlet-Holman Island	
	RVS	Sep. 04	Sep. 09	variable	Holman Island-Nelson Head-Cape Parry-Liverpool Bay-Banks Island-Cape Prince Alfred-Robilliard Island-Liverpool Bay	
	RVS	Sep. 09	Sep. 16	variable	Liverpool Bay-Atkinson Point-Richards Island-Tuktoyaktuk-Herschel Island	
	Hunter interviews	Sep. 16	Sep. 16	incidental	Herschel Island	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
51-0002 (cont'd)	RVS	Sep. 17	Sep. 19	variable	Herschel Island-Baillie Islands-Tuktoyaktuk	
51-0025	Hunter interviews	Oct. 01	Oct. 01	incidental	seal taken (inland lake) 68°48'N, 136°42'W	
52-0008	Shore watch	May 10	June 29	variable	De Salis Bay, Cape Collinson, Cape Cardwell, Windrum Lagoon	
	RVS	July 20	July 20	variable	De Salis Bay-Nelson River	
	RVS	July 27	July 27	variable	Nelson River-Cape Lambton	
	RVS	July 28	July 29	variable	Cape Lambton-Sachs Harbour	
	RVS	Aug. 01	Aug. 01	variable	Sachs Harbour-Cape Kellett	
	RVS	Aug. 02	Aug. 03	variable	Cape Kellett-Storkerson Bay	
	RVS	Aug. 06	Aug. 10	variable	Storkerson Bay-Bernard Island	
	RVS	Aug. 10	Aug. 11	variable	Bernard Island to Cape Prince Alfred	
	RVS	Aug. 11	Aug. 12	variable	Cape Prince Alfred-Antler Cove	
	RVS	Aug. 18	Aug. 18	variable	Antler Cover-Castel Bay	
	Shore watch	Aug. 19	Aug. 29	variable	Castel Bay camp	
52-0028	Hunter interviews	Spring	Spring	incidental	Holman Island, Stapylton Bay, Simpson Bay	Note 23
53-0013	RVS	July 29	July 29	continuous (during daylight hours cruising)	Sachs Harbour to a position west of Cape Lambton, Banks Island	
	RVS	July 30	July 30	continuous (during daylight hours cruising)	south and southeast of southern Banks Island	
	RVS	July 31	July 31	continuous (during daylight hours cruising)	off Cape Woolaston, Victoria Island	
	RVS	Aug. 12	Aug. 12	continuous (during daylight hours cruising)	Prince Albert Sound to House Point	
	RVS	Aug. 13	Aug. 13	continuous (during daylight hours cruising)	House Point to Booth Islands (Cape Parry)	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
53-0013 (cont'd)	RVS	Aug. 15	Aug. 15	continuous (during daylight hours cruising)	Booth Islands to Cape Bathurst	
	RVS	Aug. 16	Aug. 16	continuous (during daylight hours cruising)	Baillie Islands to Tuktoyaktuk	
53-0028	Shore watch	May 15	June 24	variable	Sachs Harbour, Cape Kellet	
	Shore watch	July 02	July 09	variable	Lennie River-Bernard River	
	RVS	July 18	Aug. 02	variable	Castel Bay	
	RVS	Aug. 08	Aug. 12	variable	Mercy Bay	
	Shore watch	Aug. 13	Aug. 13	variable	Back Point	
	RVS	Aug. 22	Aug. 29	variable	Back Point to Russell Point	
	RVS	Aug. 31	Sep. 01	variable	15 miles south of Russell Point to Princess Royal Islands	
54-0003	RVS	Aug. 09	Aug. 09	NS	70°45'N, 128°00'W 71°22'N, 126°31'W	Locations given are those sampled for oceanographic parameters, indicating the approximate bounds of the area covered; specific dates and areas for seal measurements not given
	RVS	Aug. 10	Aug. 10	NS	71°46'N, 125°14'W 71°54'N, 125°22'W 71°57'N, 125°55'W	
	RVS	Aug. 12	Aug. 12	NS	74°19'N, 125°08'W	
	RVS	Aug. 14	Aug. 14	NS	74°27'N, 125°01'W	
	RVS	Sep. 05	Sep. 05	NS	72°05'N, 119°00'W	
	RVS	Sep. 06	Sep. 06	NS	72°01'N, 119°42'W 71°58'N, 119°08'W	
	RVS	Sep. 07	Sep. 07	NS	71°03'N, 123°01'W 71°00'N, 123°14'W 70°50'N, 123°32'W 70°38'N, 123°53'W 70°27'N, 124°10'W	
	RVS	Sep. 09	Sep. 09	NS	74°26'N, 125°01'W	
	RVS	Sep. 10	Sep. 10	NS	73°58'N, 125°25'W 73°48'N, 124°53'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
55-0010	RIS	May 28	May 31	discontinuous, NS	Sachs Harbour to mouth of Masik River	
	RIS	June 06	June 10	discontinuous, NS	Sachs Harbour to Blue Fox Harbour	
55-0038	Hunter interviews	Jan. 01 (21 years)	Dec. 31 (21 years)	continuous opportunities	Sachs Harbour, Holman Island, Tuktoyaktuk	
58-0042	Hunter interviews	Oct. 16	Oct. 16	incidental	Letty Harbour (69°50'N, 124°24'W)	
58-0046	Incidental reports	Aug. 19	Aug. 19	incidental	Aklavik-Stokes Point-Kay Point-Herschel Island	
	Incidental reports	Aug. 25	Aug. 25	incidental	west shore Herschel Island	
59-0043	Hunter interviews	June	June	incidental	71°56'N, 126°05'W	Note 23
	Hunter interviews	Sep. 04	Sep. 04	incidental	70°35'N, 117°30'W	
60-0064	Hunter interviews	NS	NS	discontinuous, NS	near Sachs Harbour	Note 23
62-0063	Hunter interviews	NS	NS	variable	Baillie Islands, Nicholson Peninsula, Tuktoyaktuk, Warren Point, Atkinson Point, Cape Bathurst, Cape Parry, Hutchison Bay, McKinley Bay, Liverpool Bay, Darnley Bay, Franklin Bay	Note 23
62-0064	Hunter interviews	Summer	Summer	incidental	North Star Harbour	Note 23
63-0056	Hunter interviews	June 30	June 30	incidetal	71°51'N, 125°50'W	
	Hunter interviews	July 06	July 06	incidental	70°39'N, 117°43'W	
64-0052	Incidental reports	mid June	mid June	incidental	Masik River delta	Note 23
	Incidental reports	Summer	Summer	incidental	Duck Hawk Bluff	Note 23
64-0053	Hunter interviews	Aug. 04	Sep. 21	variable	families from Inuvik, Aklavik and	Note 21

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
64-0053 (cont'd)	Hunter interviews	Sep. 21	NS	variable	Tuktoyaktuk, hunting at Herschel Island families from Inuvik, Aklavik and Tuktoyaktuk, hunting at Herschel Island	
65-0058	Incidental reports	Spring	Spring	incidental	5 miles from Sachs Harbour	Note 23
65-0060	Ice watch	June 23 0230 h	June 23 2135 h	continuous	Fish Lake Camp, 500 m offshore on floe edge	
66-0058	Hunter interviews	Aug.	Aug.	continuous opportunities	all seals taken within 22 km of Sachs Harbour	Note 23
	Hunter interviews	Sep.	Sep.	continuous opportunities	all seals taken within 22 km of Sachs Harbour	Note 23
	Hunter interviews	Dec.	Dec.	continuous opportunities	all seals taken within 22 km of Sachs Harbour	Note 23
	Hunter interviews	Jan. (1967)	Jan. (1967)	continuous opportunities	all seals taken within 22 km of Sachs Harbour	Note 23
67-0007	RAS	May	July	variable	Beaufort Sea, from Herschel Island to Baillie Islands and Banks Island, concentrated in the Anderson River delta, the Kuguluk and Smoke rivers, and outer islands and flats of Mackenzie River delta	Note 23
	RVS	May	July	variable	Beaufort Sea, from Herschel Island to Baillie Islands and Banks Island, concentrated in the Anderson River delta, the Kuguluk and Smoke rivers, and outer islands and flats of Mackenzie River delta	Note 23
	Shore watch	May	July	variable	Beaufort Sea, from Herschel Island to Baillie Islands and Banks Island, concentrated in the Anderson River delta, the Kuguluk and Smoke rivers, and outer islands and flats of Mackenzie River delta	Note 23

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
69-0017	RVS	July 09	July 09	continuous	Shingle Point to Kendall Island, via north shore Garry Island	
	RVS	July 10	July 10	continuous	Shingle Point to Kendall Island, via north shore Garry Island	
69-0063	RVS	Aug. 05	Aug. 10	continuous (during daylight hours)	approximately 70°-72°N, 135°-141°W	
71-0100	Trader's records	July 01	June 30	continuous opportunities	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	
71-0101	RIS	Mar. 24	Mar. 24	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Mar. 28	Mar. 28	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Mar. 29	Mar. 29	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 31	Mar. 31	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 04	Apr. 04	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 05	Apr. 05	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 06	Apr. 06	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 07	Apr. 07	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 08	Apr. 08	discontinuous (bear search)	northwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
71-0101 (cont'd)	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	southeast Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 12	Apr. 12	discontinuous (bear search)	southeast Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 22	Apr. 22	discontinuous (bear search)	west coast of Banks island, from shore seaward to approx. 50 km	
	RIS	Apr. 24	Apr. 24	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 02	May 02	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf	
	RIS	May 03	May 03	discontinuous (bear search)	southwest Amundsen Gulf	
	RIS	May 05	May 05	discontinuous (bear search)	southwest Amundsen Gulf	
71-0102	Shore watch (netting seals)	Aug. 16	Aug. 16	continuous (during daylight hours)	Pauline Cove	
	Shore watch (netting seals)	Aug. 17	Aug. 17	continuous (during daylight hours)	Pauline Cove	
	Shore watch (netting seals)	Aug. 18	Aug. 18	continuous (during daylight hours)	Pauline Cove	
	Shore watch (netting seals)	Aug. 19	Aug. 19	continuous (during daylight hours)	Pauline Cove	
71-0105	RIS	Mar.	June	discontinuous NS	Iluvilik	Note 23
71-0106	Fiel examination, laboratory examination	NS	NS	variable	Holman	Notes 7, 23

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
72-0099	Trader's records	July 01	June 30	continuous opportunities	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	
72-0100	Ice watch, acoustic recordings	Jan. 20	Jan. 21	16 h. within 24 h. period	west coast of Victoria Island	
72-0101	RIS	Mar. 27	Mar. 27	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Mar. 28	Mar. 28	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Mar. 29	Mar. 29	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Mar. 30	Mar. 30	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 01	Apr. 01	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 02	Apr. 02	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Apr. 04	Apr. 04	discontinuous (bear search)	northwest Amundsen Gulf offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	Apr. 05	Apr. 05	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 06	Apr. 06	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
72-0101					seaward to approx. 50 km	
(cont'd)	RIS	Apr. 07	Apr. 07	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 10	Apr. 10	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 12	Apr. 12	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 13	Apr. 13	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 15	Apr. 15	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	northeast Amundsen Gulf southeast Amundsen Gulf	
	RIS	Apr. 18	Apr. 18	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 24	Apr. 24	discontinuous (bear search)	northeast Amundsen Gulf southwest Amundsen Gulf	
	RIS	Apr. 26	Apr. 26	discontinuous (bear search)	southwest Amundsen Gulf offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	Apr. 27	Apr. 27	discontinuous (bear search)	northwest Amundsen Gulf southwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
72-0101 (cont'd)	RIS	Apr. 28	Apr. 28	discontinuous (bear search)	southwest Amundsen Gulf offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 01	May 01	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
72-0102	RAS	June 10	Sep. 10	discontinuous, NS	Sachs Harbour, southwest Coast Banks Island	Note 23
	Hunter interviews	June 10	Sep. 10	variable	Sachs Harbour	Note 23
72-0103	RIS	Apr. 18	Apr. 18	discontinuous (bear search)	Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	Amundsen Gulf	
	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	Amundsen Gulf	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	Amundsen Gulf	
	RIS	May 31	May 31	discontinuous (bear search)	Amundsen Gulf	
	RIS	June 06	June 06	discontinuous (bear search)	Amundsen Gulf	
72-0104	RAS	June 21	June 21	continuous	Holman-Cape Parry-Clapperton Island-Cape Parry-Holman-Albert Islands-Midway Prince Albert Sound-South Shore Prince Albert Sound-Albert Islands-Holman	
	RAS	June 23	June 23	continuous	Holman-Albert Islands-George Island-Nununiak Minto Inlet-Walker Bay-Holman	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
72-0105	Shore watch (netting seals)	Aug.	Sep.	continuous (during daylight hours)	Brown's Harbour	Note 23
72-0106	RIS	Mar.	June	discontinuous, NS	Iluvilik	Note 23
72-0107	Field examination, laboratory examination	NS	NS	variable	Sachs Harbour	Notes 7, 23
72-0108	Field examination, laboratory examination	NS	NS	variable	Holman	Notes 7, 23
73-0018	RAS	July 26	July 26	continuous	Tuktoyaktuk-Liverpool Bay-Baillie Islands-Franklin Bay-Cape Parry-Cape Bathurst-Cape Dalhousie-McKinley Bay-Tuktoyaktuk	
	RAS	July 27	July 27	continuous	Tuktoyaktuk-Hendrickson Island-Richards Island-Hooper Island-Pelly Island-Garry Island-Ellice Island-Shallow Bay-Shingle Point-Herschel Island-Tuktoyaktuk	
	RAS	July 28	July 28	continuous	Tuktoyaktuk-Warren Point-Atkinson Point-Kugmallit Bay-Inuvik	
	RAS	Sep. 19	Sep. 19	continuous	Tuktoyaktuk-Toker Point-Tuktoyaktuk	
	RAS	Sep. 20	Sep. 20	continuous	Tuktoyaktuk-Hendrickson Island-Richards Island-Hooper Island-Pelley Island-Garry Island-Ellice Island-Shallow Bay-Shingle Point-Herschel Island-Tuktoyaktuk	
	Hunter interviews	Sep. 20	Sep. 20	incidental	Herschel Island (Pauline Cove)	
73-0025	RIS	Mar. 31	Mar. 31	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Apr. 01	Apr. 01	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Apr. 02	Apr. 02	discontinuous	offshore Yukon coast, from shore to approx.	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
73-0025				(bear search)	71°30'N	
(cont'd)	RIS	Apr. 03	Apr. 03	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 04	Apr. 04	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 05	Apr. 05	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 06	Apr. 06	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 07	Apr. 07	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 09	Apr. 09	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 10	Apr. 10	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 12	Apr. 12	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 14	Apr. 14	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 15	Apr. 15	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 16	Apr. 16	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 18	Apr. 18	discontinuous	southwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
73-0025 (cont'd)				(bear search)	northeast Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 22	Apr. 22	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 24	Apr. 24	discontinuous (bear search)	southeast Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 25	Apr. 25	discontinuous (bear search)	northeast Amundsen Gulf	
73-0116	Trader's records	July 01	June 30	continuous opportunities	Aklavik, Holman, Inuvik, Paulatuk, Tuktoyaktuk	
73-0121	RIS	Mar.	June	discontinuous, NS	Iluvilik	Note 23
73-0122	Field examination; laboratory examination	NS	NS	variable	Holman	Notes 7, 23
74-0029	SAS	June 19	June 19	continuous	2 lines north of Richards Island & 4 westernmost lines north of Tuktoyaktuk Peninsula	
	SAS	June 20	June 20	continuous	4 lines north of Richards Island & 5 easternmost lines north of Tuktoyaktuk Peninsula	
	SAS	June 21	June 21	continuous	5 westernmost lines north of Yukon coast & line through Kugmallit Bay & line north of Atkinson Point	
	SAS	June 22	June 22	continuous	6 easternmost lines north of Yukon coast	
	SAS	June 23	June 23	continuous	1 line in eastern part of Franklin Bay	
	SAS	June 24	June 24	continuous	6 lines in Amundsen Gulf, including 4 easternmost ones & 2 or 3 southernmost lines	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
74-0029					along Banks Island Shelf	
(cont'd)	SAS	June 25	June 25	continuous	3 lines along Banks Island Shelf	
	SAS	June 26	June 26	continuous	lines north of Liverpool Bay & lines north of Bathurst Peninsula & southernmost line along Banks Island Shelf	
	SAS	June 27	June 27	continuous	10 northernmost lines along Banks Island Shelf	
	SAS	June 28	June 28	continuous	2 lines north of Parry Peninsula	
74-0030	Hunter interviews	July 14	July 14	NA	12 miles east of Sachs Harbour	
	RAS	July 15	July 15	continuous	Tuktoyaktuk-north of Toker Point-north of Pullen Island-north of Hooper Island-Sabine Point-Shallow Bay-Olivier Islands-East Mackenzie Bay-Tuktoyaktuk	
	RAS	July 17	July 17	continuous	Tuktoyaktuk-along shore of Tuktoyaktuk Peninsula-Liverpool Bay	
	RAS	July 17	July 17	continuous	Tuktoyaktuk-Hendrickson Island-north of Toker Point-Tuktoyaktuk	
	RAS	July 22	July 22	continuous	Tuktoyaktuk-Cape Dalhousie-Baillie Islands-Horton River mouth-Tuktoyaktuk	
	RAS	July 23	July 23	continuous	Stokes Point-Shallow Bay-Olivier Islands-Garry Island-Kendall Island-Hooper Island-Pullen Island-west of Hendrickson Island-Tuktoyaktuk	
	RAS	July 25	July 25	continuous	Tuktoyaktuk-Hooper Island-Pelly Island-Garry Island-Kendall Island-Herschel Island-Shoalwater Bay-Kittigazuit-Tuktoyaktuk	
	RAS	July 26	July 26	continuous	Tuktoyaktuk-ice edge-Atkinson Point-McKinley Bay-Liverpool Bay-Baillie Islands-Cape Bathurst-Horton River mouth-Tuktoyaktuk	
	RAS	July 28	July 28	continuous	Tuktoyaktuk-Atkinson Point-Tuktoyaktuk	
	RAS	July 28	July 28	continuous	Tuktoyaktuk-Hooper Island-Herschel Island-Tuktoyaktuk	
	RAS	July 29	July 29	continuous	Tuktoyaktuk-95 miles north of Shingle Point-	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
74-0030 (cont'd)	RAS	July 30	July 31	Stopped for 18 h near Hooper Island	Garry Island-Kendall Island-Tuktoyaktuk Tuktoyaktuk-95 miles north of Shingle Point-Hooper Island-Tuktoyaktuk	
	RAS	Sep. 11	Sep. 12	Stopped for 4 h at Stanton and then at Nicholson Point	Tuktoyaktuk-along Tuktoyaktuk Peninsula-Atkinson Point-Nicholson Point-Baillie Islands-Cape Parry-Stanton-Nicholson Point-Tuktoyaktuk	
	RAS	Sep. 12	Sep. 12	continuous	Tuktoyaktuk- Atkinson Point-Tuktoyaktuk	
	RAS	Sep. 13	Sep. 13	continuous	Tuktoyaktuk-69°45'N, 132°W-Tuktoyaktuk	
74-0053	RIS	Mar. 22	Mar. 22	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 23	Mar. 23	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 25	Mar. 25	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 26	Mar. 26	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 27	Mar. 27	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 28	Mar. 28	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Mar. 31	Mar. 31	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 01	Apr. 01	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 02	Apr. 02	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
74-0053 (cont'd)	RIS	Apr. 03	Apr. 03	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 04	Apr. 04	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 06	Apr. 06	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 09	Apr. 09	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	southwest Amundsen Gulf southeast Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 14	Apr. 14	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 15	Apr. 15	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 16	Apr. 16	discontinuous (bear search)	northeast Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 18	Apr. 18	discontinuous (bear search)	southeast Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
74-0053 (cont'd)	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	southeast Amundsen Gulf	
	RIS	Apr. 22	Apr. 22	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N southwest Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 24	Apr. 24	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf	
	RIS	Apr. 25	Apr. 25	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 26	Apr. 26	discontinuous (bear search)	southwest Amundsen Gulf northeast Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 27	Apr. 27	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf	
	RIS	Apr. 28	Apr. 28	discontinuous (bear search)	southwest Amundsen Gulf northwest Amundsen Gulf	
74-0108	Trader's records	July 01	June 30	continuous opportunities	Holman, Sachs Harbour, Tuktoyaktuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
74-0109	Hunter interviews	June	Aug.	continuous (during daylight hours)	technician stationed at Sachs Harbour	Note 23
74-0110	Shore watch (netting seals)	Aug. 23	Sep. 09	continuous (during daylight hours)	Browns Harbour	Note 23
74-0115	RIS	Mar.	June	discontinuous, NS	Iluvilik	Note 23
	SIS	Mar.	June	discontinuous, NS	116°W-122°W; 70°N-71°30'N (26 sites)	Note 23
75-0043	Vessel watch	July 17	Sep. 15	continuous during 10-min. observation period; scheduled at 0600, 1200, 1800 and 2400 h daily	70°10'37.5"N, 132°58'52.5"W	Note 23
75-0045	SAS	June 12	June 12	continuous	7 lines from west of Pullen Island-Hutchison Bay	
	SAS	June 13	June 13	continuous	7 lines north of eastern end of Tuktoyaktuk Peninsula	
	SAS	June 14	June 14	continuous	4 lines north of western half of Richards Island	
	SAS	June 15	June 15	continuous	3 westernmost lines	
	SAS	June 16	June 16	continuous	8 lines from Herschel Island-Yukon/NWT border	
	SAS	June 17	June 17	continuous	5 lines from Nicholson Point-western half of Franklin Bay	
	SAS	June 18	June 18	continuous	3 lines in eastern half of Franklin Bay & 2 easternmost lines	
	SAS	June 19	June 19	continuous	17 lines along Banks Island Shelf & 1 line north of Darnley Bay	
	SAS	June 20	June 20	continuous	3 lines north of Parry Peninsula	
75-0047	RAS	July 12	July 12	continuous	Tuktoyaktuk-Komakuk-Tuktoyaktuk	
	RAS	July 12	July 12	continuous	Tuktoyaktuk-Cape Parry-Horton River-	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0047					Tuktoyaktuk	
(cont'd)	RAS	July 14	July 14	continuous	Tuktoyaktuk-Atkinson Point-Tuktoyaktuk	
	RAS	July 17	July 17	continuous	Tuktoyaktuk-Eskimo Lakes-Kugmallit Bay-Tuktoyaktuk	
	RAS	July 18	July 18	continuous	Tuktoyaktuk-Whitefish Station-Barrier Islands-Shallow Bay-Herschel Island-Komakuk-Herschel Island-Tuktoyaktuk	
	RAS	July 19	July 19	continuous	Tuktoyaktuk-Eskimo Lakes-Tuktoyaktuk	
	RAS	July 20	July 20	continuous	Tuktoyaktuk-Eskimo Lakes-Franklin Bay-Baillie Islands-Franklin Bay-Tuktoyaktuk	
	RAS	July 21	July 21	continuous	Tuktoyaktuk-Kugmallit Bay-Mackenzie Bay-East Mackenzie Bay	
	RAS	July 22	July 22	continuous	Tuktoyaktuk-Hendrickson Island-Richards Island-Ellice Island-Herschel Island-Komakuk-Kay Point-Shallow Bay-Tuktoyaktuk	
	RAS	July 23	July 23	continuous	Tuktoyaktuk-Warren Point-Atkinson Point-McKinley Bay-Eskimo Lakes-Tuktoyaktuk	
	RAS	July 24	July 24	continuous	Tuktoyaktuk-Kugmallit Bay-Pullen Island-Barrier Islands-Mackenzie Bay	
	RAS	July 26	July 26	continuous	Tuktoyaktuk-Eskimo Lakes-Baillie Islands-Franklin Bay	
	RAS	July 28	July 28	continuous	Warren Point-Atkinson Point-Tuktoyaktuk	
75-0048	RAS	May 14	May 14	continuous	Komakuk-Alaska-Yukon border-north 250 km-north of Herschel Island-Komakuk	
	RAS	May 28	May 29	continuous	Komakuk-northeast 210 km-north of Herschel Island-Komakuk	
	RAS	June 05	June 05	continuous	Komakuk-Clarence Lagoon-north 50 km-90 km northeast Herschel Island-Herschel Island-Malcolm River	
	RAS	June 15	June 16	continuous	Komakuk-northwest 60 km-east 150 km-north 80 km-Mackenzie Bay-Herschel Island-west 50 km	
	RAS	June 26	June 26	continuous	Komakuk-Clarence Lagoon-north 60 km-Komakuk-Herschel Island-north 50 km-west 60 km-	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0048 (cont'd)					Komakuk	
	RAS	July 03	July 04	continuous	Clarence Lagoon-Herschel Island-north 50 km-west 90 km-Komakuk	
	RAS	July 09	July 10	continuous	Komakuk-Clarence Lagoon-north 160 km-east 80 km-Richards Island	
75-0050	RAS	June 23	June 23	discontinuous (stopped at Sachs Harbour for 1.5 h)	Bar C-north of Shingle Point-north of Pullen Island-Warren Point-Baillie Islands-Cape Parry-Nelson Head-Sachs Harbour-Bar C	
	RAS	June 26	June 26	discontinuous (stopped at Komakuk for 0.5 h)	Bar C-Shallow Bay-Garry Island-Shingle Point-Herschel Island-Komakuk-Barrier Islands-Bar C	
	RAS	June 29	June 30	discontinuous (stopped at Komakuk for 1 h)	Bar C-65 miles west of Komakuk-north of Barrier Islands-Cape Dalhousie-Bar C	
	RAS	July 01	July 01	discontinuous (stopped at West Whitefish)	Langley Island-along Yukon Coast-Blow River-Langley Island	
	RAS	July 02	July 02	discontinuous (stopped at West Whitefish)	Bar C-Shallow Bay-Shingle Point-Langley Island	
	RAS	July 03	July 03	continuous	Inuvik-Kugmallit Bay-Shallow Bay-Mackenzie Bay-Barrier Islands-Bar C	
	SAS	July 04	July 04	continuous	Kugmallit Bay; East Mackenzie Bay; Mackenzie Bay	
	SAS	July 05	July 05	continuous	Mackenzie Bay	
	SAS	July 06	July 06	continuous	Mackenzie Bay; East Mackenzie Bay	
	SAS	July 07	July 07	continuous	Mackenzie Bay; East Mackenzie Bay; Kugmallit Bay	
	SAS	July 07	July 08	discontinuous (stopped at Bird Camp for 3.5 h)	Mackenzie Bay	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0050 (cont'd)	SAS	July 11	July 11	continuous	Mackenzie Bay	
	SAS	July 11	July 12	discontinuous (stopped at whaling camps)	Mackenzie Bay; Kugmallit Bay	
	RAS	July 12	July 13	discontinuous (stopped at Bird Camp for 1 h)	Mackenzie Bay	
	SAS	July 13	July 13	continuous	Mackenzie Bay	
	SAS	July 14	July 14	continuous	Mackenzie Bay	
	SAS	July 15	July 15	discontinuous (stopped at camp 16 for 1.5 h)	Mackenzie Bay; East Mackenzie Bay; Kugmallit Bay	
	SAS	July 17	July 17	continuous	Mackenzie Bay; East Mackenzie Bay	
	SAS	July 18	July 18	continuous	Kugmallit Bay	
	SAS	July 19	July 19	discontinuous (stopped at whaling camps)	East Mackenzie Bay; Mackenzie Bay	
	SAS	July 21	July 22	continuous	Mackenzie Bay; East Mackenzie Bay	
	SAS	July 23	July 23	discontinuous (stopped at Bird Camp & Fish Point)	Mackenzie Bay; East Mackenzie Bay	
	SAS	July 24	July 24	discontinuous (stopped at Hendrickson Island)	Kugmallit Bay; East Mackenzie Bay	
	SAS	July 25	July 25	discontinuous (stopped at Camp 16 for 6 h)	Mackenzie Bay; East Mackenzie Bay	
	RAS	July 25	July 25	continuous	Shingle Point-Komakuk-Camp 16	
	SAS	July 26	July 26	discontinuous (landed at whaling camps)	Mackenzie Bay	
	SAS	July 27	July 27	continuous	Kugmallit Bay	
	SAS	July 28	July 28	continuous	Mackenzie Bay	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0050 (cont'd)	SAS	July 29	July 29	continuous	Mackenzie Bay	
	RAS	July 29	July 29	continuous	Langley Island-Shingle Point-Komakuk-Alaska	
	SAS	July 30	July 30	continuous	East Mackenzie Bay	
	SAS	July 30	July 30	continuous	Kugmallit Bay	
	RAS	July 31	July 31	discontinuous (stopped at Stanton for 1 h and at Eskimo Lakes)	Kugmallit Bay-Atkinson Point-Cape Dalhousie-Nicholson Point-Stanton-Eskimo Lakes-Bar C	
	SAS	Aug. 02	Aug. 02	continuous	Mackenzie Bay; East Mackenzie Bay	
	SAS	Aug. 02	Aug. 02	continuous	East Mackenzie Bay; Kugmallit Bay	
	SAS	Aug. 03	Aug. 04	continuous	Mackenzie Bay	
	SAS	Aug. 05	Aug. 05	continuous	Mackenzie Bay; East Mackenzie Bay	
	RAS	Aug. 05	Aug. 06	discontinuous (stopped at Herschel Island for 1 h)	Langley Island-Shingle Point-King Point-Komakuk-Herschel Island-Shingle Point-Langley Island	
	SAS	Aug. 07	Aug. 07	continuous	Kugmallit Bay	
	RAS	Aug. 07	Aug. 08	continuous	Bar C-Toker Point-Atkinson Point-Cape Dalhousie-Atkinson Point-Kugmallit-Bar C	
75-0071	RIS	Apr. 02	Apr. 02	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 03	Apr. 03	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 04	Apr. 04	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 08	Apr. 08	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0071 (cont'd)	RIS	Apr. 09	Apr. 09	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 13	Apr. 13	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 14	Apr. 14	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 16	Apr. 16	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	northeast Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northeast Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	southeast Amundsen Gulf northeast Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	southeast Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 22	Apr. 22	discontinuous (bear search)	northeast Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	southwest Amundsen Gulf northeast Amundsen Gulf	
	RIS	Apr. 24	Apr. 24	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0071 (cont'd)	RIS	Apr. 25	Apr. 25	discontinuous (bear search)	southwest Amundsen Gulf northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 26	Apr. 26	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 27	Apr. 27	discontinuous (bear search)	southwest Amundsen Gulf	
	RIS	Apr. 28	Apr. 28	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 29	Apr. 29	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	Apr. 30	Apr. 30	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 01	May 01	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 02	May 02	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 05	May 05	discontinuous (bear search)	northwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
75-0071 (cont'd)	RIS	May 06	May 06	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 08	May 08	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 09	May 09	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 10	May 10	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
75-0124	Trader's records	July 01	June 30	continuous opportunities	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	
75-0125	Hunter interviews	June	Aug.	continuous (during daylight hours)	technician stationed at Sachs Harbour	Note 23
75-0126	SAS	June 08	June 20	discontinuous	25 lines, offshore Yukon Coast between 141°W and Shingle Point	Note 23
75-0132	RIS	Mar.	June	discontinuous, NS	Iluvilik	Note 23
	SIS	Mar.	June	discontinuous, NS	116°W-122°W; 70°N-71°30'N (26 sites)	Note 23
75-0133	Field examination, laboratory examination	NS	NS	variable	Holman	Notes 7, 23
76-0028	SAS	June 16	June 16	continuous	7 westernmost lines	
	SAS	June 17	June 17	continuous	1 line north of Richards Island	
	SAS	June 18	June 18	continuous	3 lines north of Liverpool Bay	
	SAS	June 21	June 21	continuous	line north of Shingle Point-line north of Hooper Island & 2 lines north of Tuktoyaktuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	STOP	INTERVAL	GEOGRAPHIC LOCATION	REMARKS
76-0028					Peninsula & 1 line east of Sachs Harbour	
(cont'd)	SAS	June 22	June 22	continuous	4 northernmost lines along Banks Island Shelf	
	SAS	June 23	June 23	continuous	4 lines in Amundsen Gulf	
	SAS	June 24	June 24	continuous	7 lines in Amundsen Gulf	
	SAS	June 25	June 25	continuous	4 lines along Banks Island Shelf	
	SAS	June 27	June 27	continuous	4 lines along Banks Island Shelf	
	SAS	June 28	June 28	continuous	2 lines in Franklin Bay	
	SAS	June 29	June 29	continuous	line north of Cape Dalhousie & southernmost line along Banks Island Shelf	
76-0029	RAS	July 05	July 05	discontinuous (stopped at Kidluit Bay)	Tuktoyaktuk-Kidluit Bay-Tuktoyaktuk	
	RAS	July 07	July 07	discontinuous (stopped at Herschel Island)	Tuktoyaktuk-Kidluit Bay-Pullen Island-Barrier Islands-Shingle Point-Herschel Island	
	RAS	July 10	July 10	continuous	Tuktoyaktuk-Kugmallit Bay-Baillie Islands	
	RAS	July 11	July 11	continuous	Tuktoyaktuk-Hendrickson Island-north of Kendall Island-Shallow Bay-Shingle Point	
	RAS	July 14	July 14	continuous	Tuktoyaktuk-Atkinson Point-Warren Point-Pullen Island-Hooper Island-Tuktoyaktuk	
	RAS	July 16	July 16	continuous	Tuktoyaktuk-Hendrickson Island-Pullen Island-Pelly Island-Shallow Bay-Shingle Point	
	RAS	July 17	July 17	continuous	Tuktoyaktuk-Tuft Point-McKinley Bay-Cape Parry-Baillie Islands-Liverpool Bay-Kugmallit Bay	
76-0031	RVS, acoustic recordings	July 21	Aug. 04	incidental	Tuft Point, Arnak	Note 23
76-0032	Incidental reports, vessel watch	July 20	Aug. 07	discontinuous, two 10 minute periods /day	70°10'N, 132°59'W	
	Incidental reports,	Aug. 07	Oct. 16	discontinuous, two	70°23'N, 135°06'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
76-0032 (cont'd)	vessel watch			10 minute periods /day		
76-0104	Trader's records	July 01	June 30	continuous opportunities	Holman, Inuvik, Paulatuk, Sachs Harbour, Tuktoyaktuk	
76-0105	Hunter interviews	June	Aug.	variable	Inuk assistant stationed at Sachs Harbour	Note 23
76-0106	RIS	Apr. 10	Apr. 10	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 13	Apr. 13	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 16	Apr. 16	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 18	Apr. 18	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	northwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
76-0106 (cont'd)	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 25	Apr. 25	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 30	Apr. 30	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 01	May 01	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 02	May 02	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
76-0108	RIS	Mar.	June	discontinuous, NS	Iluvilik	Note 23
77-0036	SAS	June 13	June 13	continuous	2 lines north of Richards Island	
	SAS	June 14	June 14	continuous	1 line north of Richards Island & 3 lines north of western end of Tuktoyaktuk Peninsula	
	SAS	June 16	June 16	continuous	1 line north of Cape Dalhousie	
	SAS	June 17	June 17	continuous	2 lines along Banks Island Shelf	
	SAS	June 18	June 18	continuous	2 easternmost lines in Amundsen Gulf & 6 southernmost lines along Banks Island Shelf	
	SAS	June 19	June 19	continuous	2 lines in Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
77-0036	SAS	June 20	June 20	continuous	3 lines in Amundsen Gulf	
(cont'd)	SAS	June 21	June 21	continuous	2 lines in Amundsen Gulf	
77-0039	INC					Note 13
77-0070	RIS	Apr. 30	Apr. 30	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 01	May 01	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	May 03	May 03	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 06	May 06	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 08	May 08	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 09	May 09	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 11	May 11	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 12	May 12	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 14	May 14	discontinuous	northwest Amundsen Gulf	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
77-0070 (cont'd)				(bear search)		
	RIS	May 16	May 16	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 18	May 18	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 20	May 20	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 21	May 21	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 22	May 22	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 23	May 23	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 24	May 24	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	May 25	May 25	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
77-0070 (cont'd)					approx. 71°30'N	
77-0108	Traders' records	July 01	June 30	continuous opportunities	Holman, Paulatuk, Sachs Harbour	
77-0109	Hunter interviews	June(?)	Aug.(?)	variable	Inuk assistant stationed at Sachs Harbour	Note 23
77-0110	INC					Note 13
77-0111	Field examination, laboratory examination	NS	NS	variable	Cape Parry	Notes 7, 23
77-0112	Field examination, laboratory examination	NS	NS	variable	Holman	Notes 7, 23
78-0015	SAS	June 13	June 13	continuous	6 lines from north of Pullen Island-Hutchison Bay	
	SAS	June 15	June 15	continuous	7 lines north of Yukon Coast	
	SAS	June 16	June 16	continuous	4 lines north of Yukon Coast & 5 lines from north of Shallow Bay-Richards Island	
	SAS	June 17	June 17	continuous	4 lines north of middle of Tuktoyaktuk Peninsula	
	SAS	June 18	June 18	continuous	1 line north of Tuktoyaktuk Peninsula	
	SAS	June 19	June 19	continuous	6 lines along southern Banks Island Shelf	
	SAS	June 21	June 21	continuous	8 easternmost lines in Amundsen Gulf	
	SAS	June 22	June 22	continuous	9 northernmost lines along Banks Island Shelf	
	SAS	June 23	June 23	continuous	4 easternmost lines in Amundsen Gulf	
	SAS	June 24	June 24	continuous	3 lines north of Liverpool Bay & 1 line along Banks Island Shelf & Nelson Head-Holman-Cape Parry	
	SAS	June 25	June 25	continuous	line north of Cape Dalhousie & southernmost	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
78-0015 (cont'd)					line along Banks Island Shelf	
78-0027	Vessel watch, incidental reports	June 23	July 06	continuous	Summers Harbour	
	Vessel watch, incidental reports	June 24	July 08	continuous	Herschel Island	
	Vessel watch, incidental reports	July 07	Aug. 06	continuous	Kaglulik	
	Vessel watch, incidental reports	July 08	July 23	continuous	Natsek	
	Vessel watch, incidental reports	July 08	Oct. 17	continuous	Ukalerk	
	Vessel watch, incidental reports	July 24	Oct. 15	continuous	Kopanoar	
	Vessel watch, incidental reports	Aug. 07	Aug. 17	continuous	Nerlerk	
	Vessel watch, incidental reports	Aug. 19	Sep. 02	incidental	Tarsiut	
	Vessel watch, incidental reports	Sep. 03	Oct. 14	incidental	Natsek	
	Vessel watch, incidental reports	Oct. 16	Oct. 28	incidental	Tarsiut	
	Vessel watch, incidental reports	Nov. 01	Nov. 04	incidental	Kaglulik	
78-0102	Trader's reports	July 01	June 30	continuous opportunities	Holman, Sachs Harbour, Tuktoyaktuk	
78-0103	Hunter interviews	June	Aug.	discontinuous	Inuk assistant stationed at Sachs Harbour	Note 23
78-0104	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
78-0104 (cont'd)	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 21	Apr. 21	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	Apr. 22	Apr. 22	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 23	Apr. 23	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 25	Apr. 25	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 26	Apr. 26	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 27	Apr. 27	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 29	Apr. 29	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	Apr. 30	Apr. 30	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 03	May 03	discontinuous (bear search)	northeast Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
78-0104 (cont'd)	RIS	May 05	May 05	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 06	May 06	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 07	May 07	discontinuous (bear search)	northwest Amundsen Gulf	
	RIS	May 08	May 08	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 09	May 09	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	May 10	May 10	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
78-0105	INC					Note 13
79-0027	RIS	July 23	July 24	discontinuous, variable	Tuktoyaktuk to Sachs Harbour	
	RVS	July 23	Aug. 04	discontinuous, variable	Tuktoyaktuk to Lady Franklin Point (with stops at Nicholson Peninsula, Cape Parry, Clinton Point, Cape Young)	
	RVS	Aug. 07	Aug. 09	discontinuous, variable	Lady Franklin Point to Tuktoyaktuk	
	RVS	Aug. 12	Aug. 13	discontinuous, variable	Tuktoyaktuk to Holman	
	RVS	Aug. 18	Aug. 27	discontinuous,	Holman to Tuktoyaktuk, with stops at Paulatuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
79-0027 (cont'd)				variable	and North Star Harbour	
79-0028	SAS	June 15	June 15	continuous	7 westernmost lines north of Yukon Coast	
	SAS	June 16	June 16	continuous	7 lines from Shingle Point-west of Hooper Island	
	SAS	June 18	June 18	continuous	12 lines from west of Hooper Island-east of McKinley Bay	
	SAS	June 19	June 19	continuous	5 lines from Nuvorak Point-Wood Bay	
	SAS	June 20	June 20	continuous	1 line in Amundsen Gulf & 2 southernmost lines along Banks Island Shelf & 3 lines along middle of Banks Island Shelf	
	SAS	June 21	June 21	continuous	3 easternmost lines in Amundsen Gulf & Nelson Head-Holman-Cape Parry	
	SAS	June 22	June 22	continuous	4 lines in Amundsen Gulf	
	SAS	June 23	June 23	continuous	1 line in Amundsen Gulf & 7 northernmost lines along Banks Island Shelf	
	SAS	June 24	June 24	continuous	5 lines along Banks Island Shelf	
	SAS	June 25	June 25	continuous	1 line west of Baillie Islands & 7 lines in Amundsen Gulf	
79-0030	RIS	Apr. 09	Apr. 09	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Apr. 10	Apr. 10	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N	
	RIS	Apr. 11	Apr. 11	discontinuous (bear search)	offshore Yukon coast, from shore to approx. 71°30'N offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 12	Apr. 12	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 13	Apr. 13	discontinuous	offshore Mackenzie Delta, between Shingle	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	TIME SAMPLED STOP	TIME SAMPLED INTERVAL	GEOGRAPHIC LOCATION	REMARKS
79-0030 (cont'd)				(bear search)	Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 14	Apr. 14	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
	RIS	Apr. 16	Apr. 16	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
	RIS	Apr. 17	Apr. 17	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf northwest Amundsen Gulf	
	RIS	Apr. 18	Apr. 18	discontinuous (bear search)	northwest Amundsen Gulf west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 19	Apr. 19	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	Apr. 20	Apr. 20	discontinuous (bear search)	west coast of Banks Island, from shore seaward to approx. 50 km	
	RIS	May 04	May 04	discontinuous (bear search)	offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf southwest Amundsen Gulf northwest Amundsen Gulf	
	RIS	May 06	May 06	discontinuous	offshore Mackenzie Delta, between Shingle	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	STOP	INTERVAL	GEOGRAPHIC LOCATION	REMARKS
79-0030 (cont'd)				(bear search)	Point and Atkinson Point, from shore to approx. 71°30'N	
					offshore Tuktoyaktuk Peninsula and Cape Bathurst, from Atkinson Point east to Smoking Hills, and from shore to approx. 71°30'N and midline of Amundsen Gulf	
					southwest Amundsen Gulf	
	RIS	May 07	May 07	discontinuous (bear search)	offshore Mackenzie Delta, between Shingle Point and Atkinson Point, from shore to approx. 71°30'N	
79-0031	Vessel watch, incidental reports	June 19	June 27	continuous	McKinley Bay 69°57'N, 131°14'W	
	Vessel watch incidental reports	July 02	July 10	continuous	Kaglulik (see map)	
	Vessel watch incidental reports	July 02	Aug. 08	continuous	Ukalerk 70°10'N, 132°30'N	
	Vessel watch incidental reports	July 04	Oct. 29	continuous	Nerlerk 70°26'N, 133°19'W	
	Vessel watch incidental reports	July 11	Oct. 25	continuous	Tarsiut 69°50'N, 136°00'W	
	Vessel watch incidental reports	Aug. 08	Oct. 07	continuous	Natsek 69°40'N, 135°55'W	
	Vessel watch incidental reports	Aug. 09	Sep. 11	continuous	Kopanoar 70°15'N, 135°10'W	
	Vessel watch incidental reports	Sep. 13	Sep. 17	continuous	Kenalooak 70°44'N, 133°58'W	
	Vessel watch incidental reports	Sep. 20	Oct. 21	continuous	Kenalooak 70°44'N, 133°58'W	
	Vessel watch incidental reports	Oct. 09	Nov. 22	continuous	Kopanoar 70°15'N, 135°10'W	
	Vessel watch incidental reports	Oct. 23	Nov. 10	continuous	Koakoak (see map)	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
79-0033	SAS	June 22	June 22	continuous	north of Cape Parry & eastern Franklin Bay	
	SAS	July 14	July 14	continuous	north of Cape Parry & eastern Franklin Bay	
	SAS	July 31	July 31	continuous	north of Cape Parry & eastern Franklin Bay	
	RAS	July 31	July 31	continuous	northwest coast of Parry Peninsula	
	RAS	Aug. 01	Aug. 01	continuous	northeast coast of Parry Peninsula	
	RAS	Aug. 02	Aug. 02	continuous	coast of Booth Islands	
79-0104	Trader's records	July 01	June 30	continuous opportunities	Aklavik, Holman, Paulatuk, Sachs Harbour, Tuktoyaktuk	
79-0105	Hunter interviews	June	Aug.	discontinuous	Inuk assistant stationed at Sachs Harbour	Note 23
79-0106	Vessel watch	Sep. 25	Sep. 25	continuous (during daylight hours)	Prince of Wales Strait-Amundsen Gulf	
	Vessel watch	Sep. 26	Sep. 26	continuous (during daylight hours)	Amundsen Gulf	
	Vessel watch	Sep. 27	Sep. 27	continuous (during daylight hours)	Amundsen Gulf-Tuktoyaktuk	
79-0107	INC					Note 13
80-0019	RAS	July 21	July 21	continuous	Alaska-Herschel Island-Shingle Point-Shallow Bay	
	RAS	July 22	July 22	continuous	Tuktoyaktuk-Baillie Islands-Franklin Bay-Baillie Islands-Liverpool Bay-Tuktoyaktuk	Flight sequence may be reversed
	RAS	July 23	July 23	continuous	Tuktoyaktuk-70°00'N, 133°00'W-north of Baillie Islands-Baillie Islands-along Tuktoyaktuk Peninsula-Tuktoyaktuk	Flight sequence may be reversed
	RVS	Aug. 03	Aug. 07	NS	Tuktoyaktuk-McKinley Bay-Cape Dalhousie-Harrowby Bay-west of Baillie Islands-Tuktoyaktuk	Note 23
	RVS	Aug. 09	Aug. 11	NS	Tuktoyaktuk-Issungnak-Pullen Island-Issungnak-Tuktoyaktuk	Note 23
	RAS	Aug. 14	Aug. 14	continuous	offshore of Tuktoyaktuk Peninsula	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
80-0019 (cont'd)	SAS	Aug. 18	Aug. 18	continuous	offshore of Tuktoyaktuk Peninsula	
	SAS	Aug. 19	Aug. 19	continuous	offshore of Tuktoyaktuk Peninsula	
	RAS	Aug. 20	Aug. 20	continuous	Tuktoyaktuk-72°05'N, 133°08'W-southwest coast of Banks Island-Nelson Head-Franklin Bay-Baillie Islands-along Tuktoyaktuk Peninsula-Tuktoyaktuk	Flight sequence may be reversed
	RVS	Aug. 20	Aug. 25	NS	Tuktoyaktuk-69°55'N, 132°15'W-69°50'N, 132°45'W-Warren Point-70°00'N, 132°55'W-Tuktoyaktuk	Note 23
	RAS	Aug. 21	Aug. 21	continuous	Tuktoyaktuk-north of Tuktoyaktuk Peninsula-70°10'N, 133°25'W-west of Pullen Island-70°20'N, 133°00'W-70°33', 130°15'W-Tuktoyaktuk	Flight sequence may be reversed
	RAS	Aug. 22	Aug. 22	continuous	Tuktoyaktuk-along Tuktoyaktuk Peninsula-west along 70°00'N-Alaska	
	RAS	Aug. 30	Aug. 30	continuous	Alaska-Herschel Island-70°25'N, 140°00'W-69°52'N, 140°45'W-Alaska	
	RAS	Aug. 31	Aug. 31	continuous	Tuktoyaktuk-72°00'N, 131°00'W-Sachs Harbour-Franklin Bay-Baillie Islands-along Tuktoyaktuk Peninsula-Tuktoyaktuk	Flight sequence may be reversed
	SAS	Sep. 03	Sep. 03	continuous	offshore area from Tuktoyaktuk-Herschel Island	
	RAS	Sep. 04	Sep. 04	continuous	offshore Tuktoyaktuk Peninsula	
	RAS	Sep. 04	Sep. 04	continuous	Tuktoyaktuk-69°55'N, 141°00'W-Alaska	
	RAS	Sep. 12	Sep. 12	continuous	offshore Tuktoyaktuk Peninsula	
80-0021	RAS	Aug.	Sep.	discontinuous, variable	off the northwest coast of the Tuktoyaktuk Peninsula, between 69°30'-70°15'N, 130°-133°W	Note 23
80-0022	RAS	July 28	July 28	continuous	Alaska-73°35'N, 129°00'W-76°10'N, 128°45'W-Alaska	
	RAS	Aug. 02	Aug. 02	continuous	Alaska-69°40'N, 140°18'W-69°46'N, 139°58'W-Alaska	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
80-0022 (cont'd)	RAS	Sep. 08	Sep. 08	continuous	Alaska-Herschel Island-69°36'N, 137°50'W-70°10'N, 140°07'W-Alaska	
	RAS	Sep. 10	Sep. 10	continuous	Alaska-Herschel Island-Inuvik-70°13'N, 140°45'W-Alaska	
	RAS	Sep. 14	Sep. 14	continuous	Alaska-Herschel Island-Tuktoyaktuk-70°00'N, 133°45'W-70°15'N, 135°08'W-69°54'N, 141°00'W-Alaska	
	RAS	Sep. 16	Sep. 16	continuous	Alaska-Herschel Island-69°52'N, 138°45'W-70°00'N, 141°00'W-Alaska	
	RAS	Oct. 21	Oct. 21	continuous	Alaska-69°41'N, 141°00'W-69°43'N, 139°10'W-69°43'N, 141°00'W-Alaska	
	RAS	Oct. 24	Oct. 24	continuous	Alaska-69°43'N, 141°00'W-69°43'N, 138°53'W-69°53'N, 138°53'W-69°53'N, 141°00'W-Alaska	
80-0023	Vessel watch, incidental reports	July 15	Sep. 18	continuous	Kopanoar 70°15'N, 135°10'W	
	Vessel watch, incidental reports	July 22	Sep. 16	continuous	Koakoak (see map)	
	Vessel watch, incidental reports	July 22	Sep. 16	continuous	Orvilruk (see map)	
	Vessel watch, incidental reports	Aug. 02	Sep. 08	continuous	Kenalooak 70°44'N, 133°58'W	
	Vessel watch, incidental reports	Sep. 09	Sep. 14	continuous	Kilannik 70°26'N, 129°24'W	
80-0024	SAS	June 21	June 21	continuous	4 lines in Amundsen Gulf, Prince of Wales Strait	
80-0025	RAS	Aug. 03	Aug. 03	continuous	offshore of Kugmallit Bay	
	RAS	Aug. 04	Aug. 04	continuous	offshore of Kugmallit Bay	
	RAS	Aug. 06	Aug. 06	continuous	offshore of Kugmallit Bay	
	RAS	Aug. 07	Aug. 07	continuous	offshore of Kugmallit Bay	
	RVS	Aug. 07	Aug. 14	NS	NS	
	SAS	Aug. 09	Aug. 09	continuous	area around Issungnak	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
80-0025 (cont'd)	SAS	Aug. 11	Aug. 11	continuous	area around Issungnak	
	RAS	Aug. 12	Aug. 12	continuous	offshore of Kugmallit Bay	
	SAS	Aug. 12	Aug. 12	continuous	area around Issungnak	
	RAS	Aug. 14	Aug. 14	continuous	offshore of Kugmallit Bay	
	Shore watch	Aug. 16	Sep. 13	NS	69°04'N, 138°00'W	
	RAS	Aug. 19	Aug. 19	continuous	offshore of Kugmallit Bay & Tuktoyaktuk Peninsula	
	RAS	Aug. 20	Aug. 20	continuous	offshore of Kugmallit Bay	
	RAS	Aug. 20	Aug. 20	continuous	offshore of Kugmallit Bay & Tuktoyaktuk Peninsula	
	RAS	Aug. 21	Aug. 21	continuous	offshore of Warren Point	
	SAS	Aug. 22	Aug. 22	continuous	area around Issungnak	
	RAS	Aug. 22	Aug. 22	continuous	offshore of Tuktoyaktuk Peninsula	
	Shore watch	Aug. 23	Sep. 11	NS	69°35'N, 138°51'W	
	RAS	Aug. 23	Aug. 23	continuous	offshore of Tuktoyaktuk Peninsula	
	RVS	Aug. 23	Aug. 27	NS	NS	
	RAS	Aug. 27	Aug. 27	continuous	offshore of Tuktoyaktuk Peninsula	
	RAS	Aug. 29	Aug. 29	continuous	area northwest of of Baillie Islands	
	RAS	Aug. 31	Aug. 31	continuous	offshore of Tuktoyaktuk Peninsula	
80-0026	SAS	Aug. 06	Aug. 06	discontinuous (stopped for 1 h)	12 westernmost lines	
	SAS	Aug. 07	Aug. 07	continuous	next 6 lines east from Aug. 06	
	SAS	Aug. 21	Aug. 21	continuous	6 westernmost lines	
	SAS	Aug. 23	Aug. 23	continuous	next 6 lines east from Aug. 21	
	SAS	Aug. 24	Aug. 24	continuous	next 4 lines east from Aug. 23	
	SAS	Sep. 03	Sep. 03	discontinuous (stopped for 2.5 h)	12 westernmost lines	
	SAS	Sep. 04	Sep. 04	discontinuous (stopped for 3.5 h)	8 easternmost lines	
80-0027	Vessel watch	July 20	July 24	4 watches/day	McKinley Bay 69°57'N, 131°14'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	STOP	INTERVAL	GEOGRAPHIC LOCATION	REMARKS
80-0027 (cont'd)	RVS	July 21	July 21	continuous	McKinley Bay 70°57'N, 131°14'W	
	RAS	July 22	July 22	continuous	McKinley Bay 70°57'N, 131°14'W	
	Vessel watch	Aug. 05	Aug. 13	4 watches/day	McKinley Bay 70°57'N, 131°14'W	
	RVS	Aug. 10	Aug. 10	continuous	McKinley Bay 70°57'N, 131°14'W	
	RVS	Aug. 12	Aug. 12	continuous	McKinley Bay 70°57'N, 131°14'W	
	Vessel watch	Aug. 26	Sep. 01	4 watches/day	McKinley Bay 70°57'N, 131°14'W	
	RVS	Aug. 27	Aug. 27	continuous	McKinley Bay 70°57'N, 131°14'W	
80-0029	RAS	June 19	June 19	continuous	Inuvik-Kugmallit Bay-East Mackenzie Bay-Mackenzie Bay-Inuvik	
	RAS	June 21	June 21	discontinuous (stopped at Pullen Island for 1 h)	Tuktoyaktuk-north of Pullen Island-Komakuk-Alaska-Pullen Island-Baillie Islands-Inuvik	
	RAS	June 24	June 24	discontinuous (stopped for 1.5 h)	Bar C-Pelly Island-ice edge-Kay Point-Mackenzie Bay-Bar C	
	RAS	June 25	June 25	discontinuous (stopped at Pullen Island for 1 h)	Bar C-Pelly Island-ice edge-Herschel Island-Malcolm River-Herschel Island-Kay Point-Pullen Island-Baillie Islands	
	RAS	June 27	June 27	continuous	Bar C-West Mackenzie Bay-Kay Point-northwest of Pelly Island-Bar C	
	RAS	June 27	June 27	continuous	Bar C-Richards Island-East Mackenzie Bay-Mackenzie Bay	
	SAS	June 28	June 28	continuous	Niakunak Bay	
	SAS	June 29	June 29	continuous	West Mackenzie Bay	
	RAS	June 29	June 29	continuous	Bar C-ice edge-Baillie Islands-Tuktoyaktuk	
	SAS	June 30	June 30	continuous	Niakunak Bay	
	RAS	June 30	June 30	continuous	Bar C-Kugmallit Bay-ice edge-Atkinson Point	
	SAS	July 01	July 01	continuous	Niakunak Bay	
	SAS	July 02	July 02	continuous	West Mackenzie Bay	
	SAS	July 03	July 03	continuous	Niakunak Bay	
	SAS	July 05	July 05	continuous	Kugmallit Bay	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
80-0029 (cont'd)	RAS	July 05	July 05	continuous	Hendrickson Island-Richards Island-Pullen Island-Toker Point-Tuft Point-Atkinson Point -McKinley Bay-Tuktoyaktuk	
	SAS	July 05	July 05	continuous	West Mackenzie Bay; East Mackenzie Bay	
	RAS	July 06	July 06	continuous	Tuktoyaktuk-Tuft Point-Warren Point-Atkinson Point-Cape Dalhousie-Baillie Islands-Franklin Bay-Baillie Islands-McKinley Bay-Tuktoyaktuk	
	SAS	July 08	July 08	continuous	West Mackenzie Bay	
	SAS	July 09	July 09	discontinuous (stopped at Shingle Point for 5 h)	West Mackenzie Bay; East Mackenzie Bay	
	SAS	July 10	July 10	continuous	Niakunak Bay	
	SAS	July 10	July 10	continuous	Kugmallit Bay	
	RAS	July 10	July 10	continuous	Kugmallit Bay-Pullen Island-Tuft Point-Warren Point-Hutchison Bay-Bar C	
	SAS	July 11	July 11	discontinuous (stopped at Kendall Island for 1.5 h)	West Mackenzie Bay; East Mackenzie Bay	
	SAS	July 12	July 12	continuous	Kugmallit Bay	
	RAS	July 12	July 12	continuous	Kugmallit Bay-Pullen Island-Bar C	
	SAS	July 14	July 14	continuous	West Mackenzie Bay	
	RAS	July 14	July 14	discontinuous (stopped at Aklavik)	Bar C-Aklavik-West Channel	
	SAS	July 15	July 15	continuous	Niakunak Bay	
	SAS	July 16	July 16	continuous	Kugmallit Bay	
	RAS	July 16	July 16	continuous	Warren Point-Hutchison Bay-Beluga Bay	
	SAS	July 19	July 19	continuous	West Mackenzie Bay; East Mackenzie Bay	
	RAS	July 20	July 20	continuous	Kugmallit Bay-Warren Point-Hutchison Bay	
	SAS	July 21	July 21	continuous	West Mackenzie Bay	
	SAS	July 22	July 22	continuous	Kugmallit Bay	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	STOP	INTERVAL	GEOGRAPHIC LOCATION	REMARKS
80-0029 (cont'd)	RAS	July 22	July 22	continuous	Kugmallit Bay-Pullen Island-Hansen Harbour	
	SAS	July 24	July 24	continuous	area around Issungnak	
	SAS	July 24	July 24	continuous	Kugmallit Bay	
	SAS	July 25	July 25	continuous	Niakunak Bay	
	RAS	July 26	July 26	continuous	Toker Point-Atkinson Point-Cape Dalhousie-Nicholson	
	SAS	July 28	July 28	continuous	Kugmallit Bay	
	RAS	July 28	July 28	continuous	Kugmallit Bay-Pullen Island-Bar C	
	RAS	July 29	July 29	continuous	Bar C-Kugmallit Bay-Tuft Point-Hutchison Bay-McKinley Bay-Cape Dalhousie-Baillie Islands-Atkinson Point-Warren Point	
	RAS	July 31	July 31	continuous	Bar C-Tuft Point-Hutchison Bay-Atkinson Point-Warren Point-Kugmallit Bay-Bar C	
	SAS	Aug. 03	Aug. 03	continuous	Kugmallit Bay	
	RAS	Aug. 03	Aug. 03	continuous	Tuft Point-Warren Point-Hutchison Bay-Beluga Bay	
	SAS	Aug. 05	Aug. 05	continuous	area around Issungnak	
	SAS	Aug. 05	Aug. 05	continuous	East Mackenzie Bay	
	RAS	Aug. 06	Aug. 06	continuous	Bar C-Toker Point-Warren Point-Hutchison Bay-McKinley Bay-Cape Dalhousie-McKinley Bay-Hutchison Bay-Kugmallit Bay	
	SAS	Aug. 07	Aug. 07	continuous	West Mackenzie Bay	
	SAS	Aug. 09	Aug. 09	continuous	area around Issungnak	
	RAS	Aug. 11	Aug. 11	continuous	Toker Point-Tuft Point-Hutchison Bay-McKinley Bay-Warren Point-Kugmallit Bay	
	SAS	Aug. 12	Aug. 12	continuous	Kugmallit Bay	
	RAS	Aug. 12	Aug. 12	continuous	Tuktoyaktuk-Warren Point-Hutchison Bay-McKinley Bay-Cape Dalhousie-McKinley Bay-Warren Point-Toker Point	
80-0095	Trader's records	July 01	June 30	continuous opportunities	Aklavik, Holman, Paulatuk, Sachs Harbour, Tuktoyaktuk	
80-0096	SAS	June 11	June 11	continuous	odd-numbered lines starting from east (see	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
80-0096 (cont'd)					map)	
	SAS	June 12	June 12	continuous	even-numbered lines starting from east (see map)	
	SAS	June 21	June 21	continuous	odd-numbered lines starting from east (see map)	
	SAS	June 22	June 22	continuous	even-numbered lines starting from east (see map)	
80-0097	SAS	June 26	June 26	continuous	Prince Albert Sound, Minto Inlet, Walker Bay	
80-0098	INC					Note 13
80-0099	SAS	June 05	June 05	continuous	10 lines-marine, coastal and onshore areas, Baillie Islands and Cape Bathurst	
	RVS	June 05	June 05	continuous	coastline of Baillie Islands and west shore of Cape Bathurst	
	SAS	June 27	June 27	continuous	10 lines-marine, coastal and onshore areas, McKinley Bay	
	RVS	June 27	June 27	continuous	coastline McKinley Bay and Atkinson Point	
	SAS	June 28	June 28	continuous	10 lines-marine, coastal and onshore areas, Baillie Islands and Cape Bathurst	
	RVS	June 28	June 28	continuous	coastline of Baillie Islands and west shore of Cape Bathurst	
	RVS	June 30	June 30	continuous	coastline McKinley Bay	
	RVS	July 03	July 03	continuous	southern shores of Baillie Islands	
	SAS	Aug. 11	Aug. 11	continuous	10 lines-marine, coastal and onshore areas, McKinley Bay	
	RVS	Aug. 11	Aug. 11	continuous	coastline McKinley Bay and Atkinson Point	
	SAS	Aug. 27	Aug. 27	continuous	10 lines-marine, coastal and onshore areas, McKinley Bay	
	RVS	Aug. 27	Aug. 27	continuous	coastline McKinley Bay and Atkinson Point	
81-0024	SAS	June 15	June 15	continuous	4 lines from Yukon/NWT border & 2 lines in Kugmallit Bay	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
81-0024 (cont'd)	SAS	June 16	June 16	continuous	4 lines north of Richards Island	
	SAS	June 18	June 18	continuous	4 lines north of eastern half of Richards Island	
	SAS	June 19	June 19	continuous	13 lines north of Tuktoyaktuk Peninsula from Toker Point-Nuvorak Point	
	SAS	June 20	June 20	continuous	8 lines north of eastern end of Tuktoyaktuk Peninsula	
	SAS	June 21	June 21	continuous	Amundsen Gulf	
81-0025	Vessel watch, incidental reports	June 26	Oct. 18	10-minute periods	North Issungnak	
	Vessel watch, incidental reports	July 06	Oct. 27	10-minute periods	Kopanoar 70°15'N, 135°10'W	
	Vessel watch, incidental reports	July 18	Oct. 30	Six 15-minute periods/day	Koakoak (see map)	
	Vessel watch, incidental reports	July 20	Sep. 04	10-minute periods	Killanak 70°26'N, 129°24'W	
	Vessel watch, incidental reports	Sep. 05	Sep. 19	10-minute periods	Orvilruk (see map)	
	Vessel watch, incidental reports	Sep. 20	Sep. 26	10-minute periods	Kenalooak 70°44'N, 133°58'W	
	Vessel watch, incidental reports	Sep. 27	Oct. 22	10-minute periods	Irkaluk (see map)	
81-0026	SAS	July 18	July 25	discontinuous	lines from Alaska/Yukon border-eastern section of Amundsen Gulf & along Banks Island Shelf	Note 23
	RAS	Aug. 01	Aug. 01	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	RAS	Aug. 02	Aug. 02	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	RAS	Aug. 03	Aug. 03	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	RAS	Aug. 04	Aug. 04	continuous	north of Richards Island & Tuktoyaktuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
81-0026 (cont'd)	RAS	Aug. 05	Aug. 05	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	SAS	Aug. 05	Aug. 17	NS	lines from King Point-eastern Amundsen Gulf & Prince of Wales Strait & Minto Inlet & Prince Albert Sound	
	RAS	Aug. 06	Aug. 06	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	RAS	Aug. 07	Aug. 07	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	RAS	Aug. 08	Aug. 08	continuous	north of Richards Island & Tuktoyaktuk Peninsula	
	SAS	Aug. 19	Aug. 29	discontinuous	lines from Alaska/Yukon border-Franklin Bay	Note 23
	SAS	Sep. 07	Sep. 14	discontinuous	lines from Herschel Island-Cape Lyon	Note 23
81-0027	RVS	July 31	Sep. 06	NS	NS	Note 23
	RAS	July 31	July 31	continuous	NS	Note 23
	RAS	Aug. 05	Aug. 05	continuous	area north of Kugmallit Bay	
	RAS	Aug. 06	Aug. 06	continuous	area north of Kugmallit Bay	
	RAS	Aug. 08	Aug. 08	continuous	area north of Tuktoyaktuk Peninsula	
	RAS	Aug. 10	Aug. 10	continuous	area north of Tuktoyaktuk Peninsula	
	RAS	Aug. 10	Aug. 10	continuous	area north of Richards Island	
	RAS	Aug. 13	Aug. 13	continuous	area north of Richards Island	
	RAS	Aug. 18	Aug. 18	continuous	area north of Richards Island	
	RAS	Aug. 18	Aug. 18	continuous	area north of Kugmallit Bay	
	Shore watch	Aug. 19	Sep. 03	NS	69°04'N, 138°00'W	
	RAS	Aug. 19	Aug. 19	continuous	area north of Kugmallit Bay	
	Shore watch	Aug. 23	Sep. 13	discontinuous	69°35'N, 138°51'W	Note 23
	RAS	Aug. 23	Aug. 23	continuous	area north of Richards Island	
	RAS	Aug. 23	Aug. 23	continuous	area north of Richards Island	
	RAS	Aug. 24	Aug. 24	continuous	area north of Richards Island	
	RAS	Aug. 25	Aug. 25	continuous	area north of Richards Island	
	RAS	Sep. 03	Sep. 03	continuous	Herschel Island area	
	RAS	Sep. 03	Sep. 03	continuous	Herschel Island area	
	RAS	Sep. 06	Sep. 06	continuous	area north of Komakuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
81-0027	RAS	Sep. 07	Sep. 07	continuous	Herschel Island area	
(cont'd)	RAS	Sep. 08	Sep. 08	continuous	Herschel Island area	
81-0052	RAS	May 04	May 04	continuous	70°40'-70°50'N, 140°30'-141°W	
	RAS	May 07	May 07	continuous	69°35'-71°10'N, 139°10'-141°W	
	RAS	Aug. 15	Aug. 15	continuous	69°25'-70°10'N, 137°40'-141°W	
	RAS	Aug. 17	Aug. 17	continuous	69°25'-70°35'N, 134°50'-141°W	
	RAS	Aug. 19	Aug. 19	continuous	69°40'-70°N, 139°-141°W	
	RAS	Sep. 01	Sep. 01	continuous	68°50'-69°40'N, 135°30'-141°W	
	RAS	Sep. 02	Sep. 02	continuous	69°30'-71°20'N, 135°-141°W	
	RAS	Sep. 12	Sep. 12	continuous	69°46'N, 141°00'W-69°45'N, 140°51'W-69°50'N, 140°57'W-69°49'N, 141°00'W-Alaska	
	RAS	Sep. 12	Sep. 12	continuous	69°46'N, 141°00'W-69°45'N, 140°51'W-69°50'N, 140°57'W-69°49'N, 141°00'W-Alaska	
	RAS	Sep. 14	Sep. 14	continuous	69°51'N, 141°00'W-69°49'N, 140°19'W-69°49'N, 140°46'W	
	RAS	Sep. 16	Sep. 16	continuous	69°38'N, 141°00'W-69°37'N, 139°28'W-69°49'N, 141°00'W-Alaska-70°01'N, 141°00'W-69°59'N, 140°28'W-70°04'N, 140°23'W-70°05'N, 141°00'W -Alaska	
	RAS	Sep. 17	Sep. 17	continuous	69°43'N, 141°00'W-69°53'N, 140°52'W-Herschel Island-70°04'N, 140°50'W-70°01'N, 141°00'W-Alaska	
	RAS	Sep. 20	Sep. 20	continuous	69°47'N, 141°00'W-69°46'N, 140°50'W-70°06'N, 140°55'W-69°55'N, 140°48'W-69°58'N, 141°00'W Alaska	
81-0097	Trader's records	July 01	June 30	continuous opportunities	Aklavik, Holman, Paulatuk, Tuktoyaktuk	
81-0098	SAS	NS	NS	continuous	9 lines in northern Amundsen Gulf and Prince of Wales Strait	
81-0099	INC					Note 13

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
82-0001	RAS	June 24	June 24	discontinuous (stopped at Tuktoyaktuk for 1.5 h)	Inuvik-Shallow Bay-Shingle Point-Herschel Island-Mackenzie Bay-Issungnak-Kugmallit Bay-Tuktoyaktuk-Toker Point-Warren Point-70°02'N, 132°52'W-Issungnak-Inuvik	
	RAS	June 26	June 26	continuous	Tuktoyaktuk-69°04'N, 136°18'W-69°56'N, 136°10'W-Issungnak-Baillie Islands-Franklin Bay-Baillie Islands-Issungnak-Tuktoyaktuk	
	RAS	June 28	June 28	continuous	Tuktoyaktuk-Shallow Bay-69°59'N, 136°25'W-Issungnak-Baillie Islands-Tuktoyaktuk	
	RAS	June 29	June 29	continuous	Tuktoyaktuk-69°31'N, 136°37'W-Tarsiut-Issungnak-Baillie Islands-Franklin Bay-70°48'N, 127°48'W-Tuktoyaktuk	
	RAS	July 01	July 01	continuous	Tuktoyaktuk-69°49'N, 136°55'W-Issungnak-Cape Dalhousie-Tuktoyaktuk	
	SAS	July 02	July 02	continuous	Niakunak Bay	
	SAS	July 02	July 02	continuous	West Mackenzie Bay	
	RAS	July 02	July 02	continuous	East Mackenzie Bay	
	SAS	July 03	July 03	continuous	Niakunak Bay	
	RAS	July 05	July 05	continuous	Kugmallit Bay	
	RAS	July 09	July 09	continuous	Tuktoyaktuk-Kugmalit Bay-Issungnak-69°54'N, 135°55'W-Issungnak-Baillie Islands-Tuktoyaktuk	
	SAS	July 11	July 11	continuous	Niakunak Bay	
	SAS	July 12	July 12	continuous	Kugmallit Bay	
	RAS	July 13	July 13	continuous	Tuktoyaktuk-Atkinson Point-Cape Dalhousie-Baillie Islands-Amundsen Gulf-Baillie Islands-Cape Dalhousie-Pullen Island-Garry Island-East Mackenzie Bay-Tuktoyaktuk	
	SAS	July 14	July 14	continuous	Niakunak Bay	
	SAS	July 14	July 14	continuous	Kugmallit Bay	
	SAS	July 16	July 16	continuous	Kugmallit Bay	
	RAS	July 16	July 16	continuous	Tuktoyaktuk-Warren Point-Hutchison Bay-Atkinson Point-McKinley Bay-Warren Point-Tuktoyaktuk	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED START	TIME SAMPLED STOP	TIME SAMPLED INTERVAL	GEOGRAPHIC LOCATION	REMARKS
82-0001	SAS	July 18	July 18	continuous	Kugmallit Bay	
(cont'd)	RAS	July 18	July 18	continuous	Tuft Point-Atkinson Point-Tuft Point	
	SAS	July 19	July 19	continuous	Kugmallit Bay	
	RAS	July 19	July 19	continuous	Toker Point-Tuft Point-Hutchison Bay-Atkinson Point-McKinley Bay-Hendrickson Island	
82-0008	RVS	NS	NS	NS	NS	Note 23
	RAS	Aug. 01	Aug. 01	continuous	north of Yukon Coast	
	RAS	Aug. 07	Aug. 07	continuous	north of Yukon Coast	
	RAS	Aug. 08	Aug. 08	continuous	north of Yukon Coast	
	RAS	Aug. 14	Aug. 14	continuous	north of Yukon Coast	
	RAS	Aug. 16	Aug. 16	continuous	north of Yukon Coast	
	RAS	Aug. 16	Aug. 16	continuous	north of Yukon Coast	
	RAS	Aug. 18	Aug. 18	continuous	north of Yukon Coast	
	RAS	Aug. 19	Aug. 19	continuous	north of Yukon Coast	
	RAS	Aug. 19	Aug. 19	continuous	north of Yukon Coast	
	RAS	Aug. 23	Aug. 23	continuous	north of Yukon Coast	
	RAS	Aug. 24	Aug. 24	continuous	north of Yukon Coast	
	RAS	Aug. 24	Aug. 24	continuous	north of Yukon Coast	
	RAS	Aug. 31	Aug. 31	continuous	north of Yukon Coast	
	RAS	Aug. 31	Aug. 31	continuous	north of Yukon Coast	
82-0009	RAS	Aug. 16	Aug. 16	continuous	northeast of Herschel Island	
	RAS	Aug. 17	Aug. 17	continuous	Cape Bathurst-Cape Dalhousie	
	RAS	Aug. 18	Aug. 18	continuous	northeast of Herschel Island	
	RAS	Aug. 24	Aug. 24	continuous	northeast of Herschel Island	
	RAS	Aug. 25	Aug. 25	continuous	Cape Bathurst-Cape Dalhousie	
	RAS	Sep. 04	Sep. 04	continuous	northeast of Herschel Island	
	RAS	Sep. 05	Sep. 05	continuous	northeast of Herschel Island	
82-0010	SAS	Aug. 18	Aug. 18	continuous	6 lines from east of Komakuk-west of Shingle Point	
	SAS	Aug. 19	Aug. 19	continuous	next 8 lines eastward from Aug. 17	
	SAS	Aug. 22	Aug. 22	continuous	6 lines from Pelly Island-north of Hendrickson Island	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
82-0010 (cont'd)	SAS	Aug. 23	Aug. 23	continuous	6 lines from west of Tuktoyaktuk-McKinley Bay	
	SAS	Aug. 24	Aug. 24	continuous	5 easternmost lines	
	SAS	Sep. 05	Sep. 05	continuous	6 westernmost lines	
	SAS	Sep. 09	Sep. 09	continuous	6 lines from Hooper Island-Warren Point	
	SAS	Sep. 12	Sep. 12	continuous	7 lines from Warren Point-Cape Dalhousie	
	SAS	Sep. 13	Sep. 13	continuous	10 lines from east of Kay Point-Pelly Island spit	
82-0011	SAS	June 19	June 19	continuous	4 westernmost lines (136°30'-135°45'W)	
	SAS	June 20	June 20	continuous	14 lines from Russel Inlet to Hendrickson Island (130°15'-133°30'W)	
	SAS	June 21	June 21	continuous	4 lines north of Richards Island (135°30'-133°45'W)	
	SAS	June 22	June 22	continuous	4 eastern lines in Beaufort Sea, Russel Inlet to Nicholson Point (130°00'-129°15'W), 8 westernmost lines in Amundsen Gulf	
	SAS	June 23	June 23	continuous	9 lines in Prince Albert Sound 2 lines west of Prince Albert Sound 4 easternmost lines starting in Minto Inlet	
	SAS	June 24	June 24	continuous	5 lines from 119°W to 120°20'W, 1 line in Prince of Wales Strait at 119°W	
82-0029	Vessel watch, incidental reports	July 01	NS	10-minute periods, once every 3 h	McKinley Bay 69°57'N, 131°14'W	Note 23
	Vessel watch, incidental reports	July 15	NS	10-minute periods, once every 3 h	Kiggavik (see map)	Note 23
	Vessel watch, incidental reports	July 17	NS	10-minute periods, once every 3 h	Kenalooak 70°44'N, 133°58'W	Note 23
	Vessel watch, incidental reports	July	NS	10-minute periods, once every 3 h	Nerlerk 70°27'N, 133°20'W	Note 23
	Vessel watch, incidental reports	July	NS	10-minute periods, once every 3 h	Irkaluk (see map)	Note 23
	Vessel watch, incidental reports	Sep.	NS	10-minute periods, once every 3 h	Orviluk (see map)	Note 23

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
82-0049	RAS	Aug. 02	Aug. 02	continuous	north of coast 140°00'W-141°00'W	
	RAS	Aug. 05	Aug. 05	continuous	70°48'N, 141°00'W-70°43'N, 140°10'W-70°27'N, 140°40'W-70°26'N, 141°00'W-Alaska	
	RAS	Aug. 06	Aug. 06	continuous	north of coast 140°00'W-141°00'W	
	RAS	Aug. 07	Aug. 07	continuous	north of coast 140°00'W-141°00'W	
	RAS	Aug. 15	Aug. 15	continuous	70°59'N, 141°00'W-70°10'N, 140°15'W-72°00'N, 140°30'W-71°08'N, 141°00'W-Alaska	
	RAS	Aug. 16	Aug. 16	continuous	Alaska-69°36'N, 140°32'W-70°29'N, 140°40'W-70°29'N, 141°00'W-Alaska	
	RAS	Aug. 18	Aug. 18	continuous	Alaska-area north of coast 139°10'W-141°00'W-Herschel Island-Alaska	
	RAS	Aug. 20	Aug. 20	continuous	70°29'N, 141°00'W-70°28'N, 140°15'W-71°09'N, 140°15'W-71°09'N, 140°40'W-70°30'N, 140°40'W-Alaska	
	RAS	Aug. 25	Aug. 25	continuous	Alaska-area north of coast 140°25'-141°00'W-Alaska	
	RAS	Aug. 28	Aug. 28	continuous	Alaska-area north of coast 140°05'-141°00'W-Alaska	
	RAS	Sep. 02	Sep. 02	continuous	Alaska-area north of coast 140°05'-141°00'W-Alaska	
	RAS	Sep. 04	Sep. 04	continuous	Alaska-area north of coast 139°55'-141°00'W-Alaska	
	RAS	Sep. 11	Sep. 11	continuous	Alaska-area north of coast 140°17'-141°00'W-Alaska	
	RAS	Sep. 14	Sep. 14	continuous	Alaska-area north of coast 140°27'-141°00'W-Alaska	
	RAS	Sep. 15	Sep. 15	continuous	69°58'N, 141°00'W-69°45'N, 139°50'W-70°28'N, 139°55'W-70°33'N, 140°50'W-69°58'N, 141°00'W-Alaska	
	RAS	Sep. 16	Sep. 16	continuous	Alaska-area north of coast 139°54'-141°00'W-Alaska	
	RAS	Sep. 24	Sep. 24	continuous	69°48'N, 141°00'W-69°48'N, 140°37'W-69°59'N, 141°00'W-Alaska	
	RAS	Oct. 13	Oct. 13	continuous	Alaska-area north of coast 140°05'-141°00'W-	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
82-0049 (cont'd)					Alaska	
	RAS	Oct. 14	Oct. 14	continuous	Alaska-area north of coast 139°00'-141°00'W-Alaska	
	RAS	Oct. 15	Oct. 15	continuous	70°00'N, 141°00'W-Herschel Island-King Point-69°58'N, 136°00'W-Herschel Island-71°53'N, 139°20'W-69°55'N, 141°00'W-Alaska	Flight sequence may be reversed
82-0092	Trader's records	July 01	June 30	continuous opportunities	Holman, Paulatuk	
82-0096	Ice watch, acoustic recordings	Apr. 20	May 14	continuous, and once every 2 h	3 km south Ramsay Island (71°33'N, 119°08'W); and 15 sites 5-30 km from this point	
	Ice watch, acoustic recordings	May 14	May 23	continuous, and once every 2 h	3 km south Ramsay Island (71°33'N, 119°08'W); and 15 sites 5-30 km from this point	
83-0024	RVS	NS	NS	NS	NS	Note 23
	RAS	Aug. 07	Aug. 07	continuous	north of Yukon Coast	
	RAS	Aug. 07	Aug. 07	continuous	north of Herschel Island	
	RAS	Aug. 09	Aug. 09	continuous	north of Herschel Island	
	RAS	Aug. 15	Aug. 15	continuous	north of Yukon Coast	
	RAS	Aug. 17	Aug. 17	continuous	north of Yukon Coast	
	RAS	Aug. 17	Aug. 17	continuous	along Yukon Coast	
	RAS	Aug. 18	Aug. 18	continuous	north of Yukon Coast	
	RAS	Aug. 18	Aug. 18	continuous	north of Yukon Coast	
	RAS	Aug. 22	Aug. 22	continuous	north of Yukon Coast	
	RAS	Aug. 22	Aug. 22	continuous	north of Yukon Coast	
	RAS	Aug. 26	Aug. 26	continuous	along Yukon Coast	
	RAS	Aug. 26	Aug. 27	continuous	along Yukon Coast	
	RAS	Aug. 28	Aug. 28	continuous	north of Yukon Coast	
	RAS	Aug. 31	Aug. 31	continuous	north of Richards Island	
	RAS	Sep. 01	Sep. 01	continuous	north of Richards Island	
83-0026	RAS	Aug. 19	Aug. 19	continuous	6 westernmost lines	
	RAS	Aug. 20	Aug. 20	continuous	2 lines north of Tuft Point & Warren Point	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
83-0026 (cont'd)	RAS	Aug. 22	Aug. 22	continuous	6 lines from east of King Point-west of Hooper Island	
	RAS	Aug. 23	Aug. 23	continuous	2 lines north of Richards Island & 2 lines from east of Hutchison Bay-Atkinson Point	
	RAS	Aug. 24	Aug. 24	continuous	4 lines from east of McKinley Bay-east of Cape Dalhousie	
	RAS	Sep. 06	Sep. 06	continuous	9 westernmost lines	
	RAS	Sep. 08	Sep. 08	continuous	8 lines from west of the Yukon/NWT border-Toker Point	
	RAS	Sep. 09	Sep. 09	continuous	6 lines from Warren Point-Cape Dalhousie	
	RAS	Sep. 11	Sep. 11	continuous	2 easternmost lines	
83-0027	SAS	Aug. 19	Aug. 19	continuous	6 westernmost lines (140°58'-138°18'W)	
	SAS	Aug. 20	Aug. 20	continuous	3 lines north of Hendrickson Island to north of Warren Point (133°30'-132°26'W)	
	SAS	Aug. 22	Aug. 22	continuous	6 lines east of King Point to north of Kendall Island (137°46'-135°06'W)	
	SAS	Aug. 23	Aug. 23	continuous	2 lines north of North Head to north of Summer Island (134°34'-134°02'W)	
					2 lines north of Bols Point to north of Atkinson Point (131°54'-131°22'W)	
	SAS	Aug. 24	Aug. 24	continuous	4 easternmost lines	
	SAS	Sep. 06	Sep. 06	continuous	9 westernmost lines (140°58'-136°42'W)	
	SAS	Sep. 08	Sep. 08	continuous	8 lines north of Mackenzie Bay to north of Tuktoyaktuk (136°42'-133°01'W)	
	SAS	Sep. 09	Sep. 09	continuous	6 lines north of Tuft Point to north of Russel Inlet (132°26'-129°46'W)	
	SAS	Sep. 11	Sep. 11	continuous	2 easternmost lines (129°14'-128°42'W)	
83-0028	RAS	May 09	May 09	continuous	north of Yukon Coast 138°00'-141°00'W	
	RAS	May 11	May 11	continuous	70°10'N, 141°00'W-70°10'N, 138°30'W-Herschel Island-71°00'N, 141°00'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
83-0028	RAS	Aug. 02	Aug. 02	continuous	north of Yukon Coast 138°30'-141°00'W	
(cont'd)	RAS	Aug. 03	Aug. 03	continuous	70°23'N, 141°00'W-70°31'N, 140°20'W-71°10'N, 140°05'W-71°10'N, 140°35'W-70°31'N, 140°45'W -70°31'N, 141°00'W-Alaska	
	RAS	Aug. 05	Aug. 05	continuous	70°17'N, 141°00'W-70°19'N, 140°30'W-71°33'N, 140°30'W-71°10'N, 140°45'W-71°10'N, 141°00'W Alaska	
	RAS	Aug. 08	Aug. 08	continuous	69°53'N, 141°00'W-70°00'N, 140°25'W-70°30'N, 140°00'W,-71°00'N, 140°20'W-71°00'N, 140°50'W-70°28'N, 140°50'W-70°28'N, 141°00'W -Alaska	
	RAS	Aug. 09	Aug. 09	continuous	north of Yukon Coast 140°00'W-141°00'W- Alaska	
	RAS	Aug. 10	Aug. 10	continuous	north of Yukon Coast 140°15'W-141°00'W- Alaska	
	RAS	Aug. 18	Aug. 18	continuous	71°10'N, 141°00'W-71°10'N, 140°40'W-72°00'N, 140°40'W-72°00'N, 140°10'W-71°15'N, 140°15'W -71°02'N, 141°00'W-Alaska	
	RAS	Aug. 20	Aug. 20	continuous	70°30'N, 141°00'W-70°30'N, 140°10'W-71°10'N, 140°15'W-71°12'N, 140°43'W-70°30'N, 141°00'W -Alaska	
	RAS	Aug. 21	Aug. 21	continuous	north of Yukon Coast 140°00'W-141°00'W- Alaska	
	RAS	Aug. 23	Aug. 23	continuous	70°29'N, 141°00'W-70°30'N, 140°28'W-71°10'N, 140°28'W-71°10'N, 140°28'W-70°30'N, 140°32'W -70°30'N, 141°00'W-Alaska	
	RAS	Aug. 30	Aug. 30	continuous	69°40'N, 141°00'W-Clarence Lagoon-71°07'N, 140°00'W-71°00'N, 141°00'W-Alaska	
	RAS	Aug. 31	Aug. 31	continuous	70°10'N, 141°00'W-70°30'N, 140°00'W-71°10'N, 140°30'W-71°10'N, 140°45'W-70°30'N, 140°55'W -70°30'N, 141°00'W-Alaska	
	RAS	Sep. 06	Sep. 06	continuous	70°23'N, 141°00'W-70°29'N, 140°07'W-72°00'N, 140°20'W-72°00'N, 140°35'W-70°30'N, 140°35'W -70°30'N, 141°00'W-Alaska	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
83-0028 (cont'd)	RAS	Sep. 07	Sep. 07	continuous	69°37'N, 141°00'W-70°31'N, 140°40'W-69°35'N, 140°20'W-69°59'N, 141°00'W-Alaska	
	RAS	Sep. 10	Sep. 10	continuous	north of Yukon Coast 140°00'W-141°00'W-Alaska	
	RAS	Oct. 02	Oct. 02	continuous	69°42'N, 141°00'W-69°40'N, 140°45'W-70°30'N, 140°10'W-70°31'N, 141°00'W-Alaska	
	RAS	Oct. 05	Oct. 05	continuous	70°20'N, 141°00'W-70°20'N, 140°40'W-70°30'N, 140°40'W,-70°30'N, 141°00'W-Alaska	
83-0029	SAS	June 16	June 16	continuous	4 westernmost lines (136°30'-135°40'W)	
	SAS	June 18	June 18	continuous	10 lines from Pelly Island to eastern Kugmallit Bay (135°30'-133°15'W)	
	SAS	June 19	June 19	continuous	4 lines, Russell Inlet to Phillips Island (130°15'-131°00'W)	
					2 lines, Tuktoyaktuk to Toker Point (133°00'-132°45'W)	
	SAS	June 20	June 20	continuous	6 lines, Pelly Island to Reindeer Island (135°30'-134°15'W)	
					6 lines, Atkinson Point to Tuft Point (131°15'-132°30'W)	
	SAS	June 25	June 25	continuous	4 easternmost lines in Beaufort Sea (130°00'-129°15'W)	
					6 westernmost lines in Amundsen Gulf (122°20'-120°40'W)	
	SAS	June 26	June 26	continuous	19 lines, Minto Inlet, Prince Albert Sound & eastern 5 lines Amundsen Gulf (119°40'-114°40'W)	
	SAS	June 27	June 27	continuous	1 line, Amundsen Gulf-mouth Minto Inlet (118°20'W)	
					2 lines, Amundsen Gulf (120°00'-120°20'W)	
83-0030	Incidental reports, vessel watch	July 15	Sep. 24	10 min. watch period, once every 3 h	Aiverk 70°20'N, 134°00'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
83-0030 (cont'd)	Incidental reports, vessel watch	July 07	Sep. 11	10 min. watch period, once every 3 h	Natiak 70°10'N, 137°00'W	
	Incidental reports, vessel watch	Sep. 13	Sep. 29	10 min. watch period, once every 3 h	Havik 70°20'N, 132°13'W	
	Incidental reports, vessel watch	July 10	July 29	10 min. watch period, once every 3 h	Havik 70°20'N, 132°13'W	
	Incidental reports, vessel watch	July 30	Sep. 19	10 min. watch period, once every 3 h	Arluk 70°19'N, 135°26'W	
	Incidental reports, vessel watch	July 25	Sep. 25	10 min. watch period, once every 3 h	Siuluk 70°20'N, 135°00'W	
	Incidental reports, vessel watch	Sep.	Sep.	10 min. watch period, once every 3 h	Kogyuk 70°10'N, 133°10'W	Note 23
	Incidental reports, vessel watch	July	Aug.	10 min. watch period, once every 3 h	Nerlerk 70°27'N, 133°20'W	Note 23
83-0051	RAS	Aug. 19	Aug. 19	continuous	offshore Yukon Coast, between Alaska-Yukon border and Herschel Island, seaward to approximately 32 km from shore	
	RAS	Aug. 21	Aug. 21	continuous	offshore Yukon Coast, between Alaska-Yukon border and Herschel Island, seaward to approximately 32 km from shore	
	RAS	Aug. 26	Aug. 26	continuous	offshore Yukon Coast, between Alaska-Yukon border and Herschel Island, seaward to approximately 32 km from shore	
	RAS	Aug. 31	Aug. 31	continuous	offshore Yukon Coast, between approximately 70°-70°20'N and 139°-141°W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
83-0051 (cont'd)	RAS	Sep. 02	Sep. 02	continuous	offshore Yukon Coast, between approximately 69°50'-70°10'N and 138°50'-141°W	
	RAS	Sep. 03	Sep. 03	continuous	offshore Yukon Coast, between approximately 69°20'-70°10'N and 137°-141°W	
	RAS	Sep. 04	Sep. 04	continuous	offshore Yukon Coast, between approximately 69°30'-70°N and 137°-141°W	
	RAS	Sep. 06	Sep. 06	continuous	offshore Yukon Coast, between approximately 69°40'-71°'N and 136°'-141°W	
	RAS	Sep. 26	Sep. 26	continuous	offshore Yukon Coast, between approximately 69°30'-70°30'N and 140°30'-141°W	
84-0014	RAS	Aug. 01	Aug. 01	discontinuous, variable	69°30'N, 137°14'W; 69°23'N, 138°30'W	Specific locations given in text only; other areas may have been sampled
	RAS	Aug. 07	Aug. 07	discontinuous, variable	70°04'N, 138°21'W	
	RAS	Aug. 14	Aug. 14	discontinuous, variable	69°43'N, 136°48'W	
	RAS	Aug. 16	Aug. 16	discontinuous, variable	69°43'N, 136°43'W	
	RAS	Aug. 17	Aug. 17	discontinuous, variable	69°12'N, 138°06'W	
	RAS	Aug. 18	Aug. 18	discontinuous, variable	Mackenzie Bay	
	RAS	Aug. 24	Aug. 24	discontinuous, variable	69°30'N, 136°40'W	
	RAS	Aug. 27	Aug. 27	discontinuous, variable	69°33'N, 137°00'W; 69°21'N, 137°05'W	
	RAS	Aug. 28	Aug. 28	discontinuous, variable	69°33'N, 136°57'W	
	RAS	Aug. 31	Aug. 31	discontinuous, variable	69°39'N, 136°48'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0014 (cont'd)	RAS	Sep. 01	Sep. 01	discontinuous, variable	70°01'N, 132°42'W	
	RAS	Sep. 02	Sep. 02	discontinuous, variable	69°35'N, 137°05'W	
84-0015	RAS	Aug. 14	Sep. 14	discontinuous, variable	2 m isobath seaward to edge of pack-ice, and from Alaska-Yukon border (141°W) east to Franklin Bay	Notes 5, 23
84-0016	RAS	July 05	July 05	continuous	ferrying flight along Yukon Coast between Shingle Point and Herschel Island	
	SAS	July 05	July 05	continuous	5 lines, between Herschel Island and Tent Island, offshore to approximately 70°20'N	
	SAS	July 06	July 06	discontinuous (stopped at Shingle Point)	6 lines, offshore Mackenzie Delta seaward to approximately 71°N	
	SAS	July 09	July 09	discontinuous (stopped at Tuktoyaktuk)	6 lines, offshore Tuktoyaktuk Peninsula, seaward to approximately 71°N	
	SAS	July 13	July 13	continuous	4 lines, offshore Yukon Coast from Alaska-Yukon border (141°W) eastward to Kay Point, and from shore seaward to 70°N and 70°30'N	
	SAS	July 17	July 17	continuous	4 lines, offshore Mackenzie Delta, starting at approximately 69°20' and extending seaward to edge of pack-ice	
	SAS	July 18	July 18	discontinuous (stopped for 1 h at Tuktoyaktuk)	6 lines, offshore Kugmallit Bay and Tuktoyaktuk Peninsula, starting at approximately 69°50'N and extending north to 71°N; except the easternmost 2 lines (of the 6) were shorter due to fog	
	RAS	July 21	July 21	continuous	ferrying flight from Shallow Bay to Komakuk Beach, followed coastline starting at Shingle Point	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0016 (cont'd)	SAS	July 21	July 21	discontinuous (stopped for 1 h at Shingle Point)	6 lines, offshore Yukon Coast eastward to Tent Island, and from shore to 70°20'N-70°40'N	
	SAS	July 22	July 22	discontinuous (stopped for 1 h at McKinley Bay)	6 lines, offshore Mackenzie Delta, from shore to approximately 71°N	
	SAS	July 23	July 23	continuous	4 lines, offshore McKinley Bay eastward to Cape Bathurst, from shore to approximately 70°50'N	
	SAS	July 28	July 28	continuous	4 lines, offshore Yukon Coast between Alaska-Yukon border (141°W) and Kay Point, from shore seaward to 70°40'N	
	SAS	July 30	July 30	discontinuous (stopped for 1.5 h at Nicholson Point)	5 lines, offshore Tuktoyaktuk Peninsula from Atkinson Point to Cape Dalhousie, and eastward to Cape Bathurst, and from shore seaward to approximately 70°50'N	
	SAS	Aug. 02	Aug. 02	discontinuous (stopped for 1 h at Shingle Point)	4 lines, offshore of Shingle Point and west side Mackenzie Delta (2 lines seaward to 70°40'N; visibility on other 2 lines restricted due to fog or low cloud)	
84-0017	SAS	Aug. 18	Aug. 18	continuous	4 lines north of Shingle Point and west Mackenzie Delta, from 2 m isobath seaward to 71°-71°20'N	
	SAS	Aug. 22	Aug. 22	discontinuous (stopped for 1.5 h at Tuktoyaktuk)	8 lines, offshore Kugmallit Bay to McKinley Bay, from 2 m isobath seaward to approximately 72°N	
	SAS	Aug. 23	Aug. 23	discontinuous (stopped for 1.5 h at Nicholson Point)	16 lines, offshore Cape Dalhousie to Franklin Bay, 8 of them from 2 m isobath seaward to approximately 71°30'N; and 8 of them in nearshore areas only	
	RAS	Aug. 24	Aug. 24	continuous	ferrying flight 5-10 km offshore Yukon Coast, from Shingle Point westward to Komakuk Beach	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0017 (cont'd)	SAS	Aug. 27	Aug. 27	discontinuous (stopped for 1 h at Komakuk)	16 lines, offshore Yukon Coast between Alaska-Yukon border (141°W) and King Point; 6 of them from 2 m isobath seaward to 71°-71°50'N, and 10 of them covering nearshore areas only	
	SAS	Sep. 06	Sep. 06	continuous	2 lines, offshore Komakuk Beach, from 2 m isobath seaward to 71°30'N	
	RAS	Sep. 11	Sep. 11	continuous	ferry flight-Yukon Coast, between Shingle Point and Komakuk Beach	
	SAS	Sep. 11	Sep. 11	discontinuous (stopped for 1.5 h at Tuktoyaktuk & Shingle Point)	12 lines, offshore Yukon Coast and Mackenzie Delta, from 2 m isobath seaward to approximately 71°-71°30'N	
	SAS	Sep. 12	Sep. 12	continuous	4 lines, offshore of Kugmallit Bay and Tuktoyaktuk Peninsula, from 2 m isobath seaward to approximately 70°40'N	
	SAS	Sep. 13	Sep. 13	continuous	4 lines, offshore Liverpool Bay and Cape Bathurst, from 2 m isobath seaward to 71°-71°40'N	
	SAS	Sep. 17	Sep. 17	continuous	4 lines, offshore Tuktoyaktuk Peninsula, from 2 m isobath seaward to 71°40'N	
	SAS	Sep. 18	Sep. 18	continuous	3 lines, west side of Franklin Bay, from 2 m isobath seaward to 71°N and 70°20'N	
84-0018	RAS	Aug. 01	Aug. 01	continuous	offshore Yukon Coast, 70°15'-71°10'N, 140°-141°W	
	RAS	Aug. 02	Aug. 02	continuous	offshore Yukon Coast, 69°30'-70°30'N, 139°-141°W	
	RAS	Aug. 05	Aug. 05	continuous	offshore Yukon Coast, 69°40'-71°N, 140°-141°W	
	RAS	Aug. 06	Aug. 06	continuous	offshore Yukon Coast, 69°35'-70°30'N, 140°-141°W	
	RAS	Aug. 07	Aug. 07	continuous	offshore Yukon Coast, 70°10'-71°05'N, 139°-141°W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0018 (cont'd)	RAS	Aug. 11	Aug. 11	continuous	offshore Yukon Coast, 70°40'-71°10'N, 140°50'-141°W	
	RAS	Aug. 13	Aug. 13	continuous	offshore Yukon Coast, 69°30'-71°10'N, 140°-141°W	
	RAS	Aug. 15	Aug. 15	continuous	offshore Yukon Coast, 70°20'-71°10'N, 140°-141°W	
	RAS	Aug. 16	Aug. 16	continuous	offshore Yukon Coast, 69°30'-70°20'N, 140°-141°W	
	RAS	Aug. 24	Aug. 24	continuous	offshore Yukon Coast, 69°40'-70°40'N, 140°30'-141°W	
	RAS	Aug. 27	Aug. 27	continuous	offshore Yukon Coast, 70°20'-71°40'N, 140°20'-141°W	
	RAS	Aug. 29	Aug. 29	continuous	offshore Yukon Coast, 69°30'-70°30'N, 140°20'-141°W	
	RAS	Sep. 11	Sep. 11	continuous	offshore Yukon Coast and Mackenzie Delta, 69°30'-72°N, 135°-141°W	
	RAS	Sep. 21	Sep. 21	continuous	offshore Komakuk Beach, 69°30'-71°10'N, 140°50'-141°W	
	RAS	Sep. 26	Sep. 26	continuous	offshore Yukon Coast, 69°-70°30'N, 138°-141°W	
	RAS	Oct. 03	Oct. 03	continuous	offshore Yukon Coast, 69°-70°N, 138°-141°W	
	RAS	Oct. 10	Oct. 10	continuous	offshore Yukon Coast, 69°-70°10'N, 138°-141°W	
84-0019	RAS	Aug. 13	Aug. 17	discontinuous, variable	offshore Cape Bathurst, Tuktoyaktuk Peninsula, Mackenzie Delta, Mackenzie Bay, Herschel Canyon	Note 23
84-0020	Incidental reports, vessel watch	July 10	Aug. 28	10 min. watch period, once every 3 h, whenever possible	Alverk 70°20'N, 134°00'W	
	Incidental reports, vessel watch	Aug. 29	Sep. 25	10 min. watch period, once every 3 h, whenever	Natiak 70°10'N, 137°00'W	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0020 (cont'd)				possible		
	Incidental reports, vessel watch	Sep. 27	Oct. 11	10 min. watch period, once every 3 h, whenever possible	Aiverk 70°20'N, 134°00'W	
	Incidental reports, vessel watch	June 26	Oct. 06	10 min. watch period, once every 3 h, whenever possible	Havik 70°20'N, 132°13'W	
	Incidental reports, vessel watch	July 10	Oct. 22	10 min. watch period, once every 3 h, whenever possible	Arluk 70°19'N, 135°26'W	
	Incidental reports, vessel watch	July 09	Oct. 18	10 min. watch period, once every 3 h, whenever possible	Siuluk 70°20'N, 135°00'W	
	Incidental reports, vessel watch	NS	Oct. 14	10 min. watch period, once every 3 h, whenever possible	Nerlerk 70°27'N, 133°20'W	
84-0021	SAS	June 15	June 15	continuous	4 westernmost lines	
	SAS	June 16	June 16	continuous	2 lines Hooper Island to west of North Head (135°00'-134°45'W) 1 line north of Tuktoyaktuk (133°00'W) 1 line, Russell Inlet (130°15'W)	
	SAS	June 17	June 17	continuous	10 lines, Toker Point to Nuvorak Point (132°45'-130°15'W)	
	SAS	June 18	June 18	continuous	2 lines, Pelly Island to Kendall Island (135°30'-135°15'W) 6 lines, North Head to East Kugmallit Bay (134°30'-133°15'W)	
	SAS	June 19	June 19	continuous	4 easternmost lines in Beaufort Sea (130°00-	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
84-0021 (cont'd)					129°15'W)	
					6 westernmost lines in Amundsen Gulf (122°40'-121°00'W)	
	SAS	June 20	June 20	continuous	4 lines (120°40'-119°40'W)	
	SAS	June 21	June 21	continuous	14 lines, easternmost 4 lines of Amundsen Gulf, all lines in Minto Inlet and Prince Albert Sound (119°20'-115°40'W)	
85-0002	SAS	June 13	June 13	continuous	12 lines, Prince Albert Sound	
	SAS	June 14	June 14	discontinuous (stopped at Holman)	12 lines, Minto Inlet, northern half of Amundsen Gulf	
	SAS	June 15	June 15	continuous	4 lines, northern half of Amundsen Gulf	
	SAS	June 17	June 17	continuous	4 lines, northern half of Amundsen Gulf	
85-0003	RAS	June 24	June 24	continuous	reconnaissance along landfast ice edge between Kay Point and Cape Dalhousie; approximately 30-40 km from shore	
	RAS	June 28	June 28	continuous	reconnaissance along landfast ice edge between Shingle Point and Baillie Islands; approximately 20-40 km from shore	
	SAS	July 03	July 03	continuous	12 lines, Shallow Bay	
	RAS	July 04	July 04	continuous	reconnaissance along landfast ice edge between Pelly Island and Nuvorak Point; approximately 20 km from shore	
	SAS	July 07	July 07	continuous	12 lines, Shallow Bay	
	SAS	July 08	July 08	continuous within each bay (stops between)	5 lines, West Mackenzie Bay, and 4 lines, East Mackenzie Bay	
	SAS	July 09	July 09	continuous	10 lines, Kugmallit Bay	
	SAS	July 15	July 15	continuous within each bay (stops between)	12 lines, Shallow Bay 6 lines, West Mackenzie Bay	
	SAS	July 16	July 16	continuous within	11 lines, East Mackenzie Bay, and 10 lines,	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
85-0003 (cont'd)				each bay (stops between)	Kugmallit Bay	
	SAS	July 22	July 22	continuous within each bay (stops between)	12 lines, Shallow Bay 6 lines, West Mackenzie Bay	
	SAS	July 23	July 23	continuous within each bay (stops between)	9 lines, Kugmallit Bay, and 9 lines, East Mackenzie Bay	
	RAS	July 24	July 24	continuous	ice reconnaissance flight over Liverpool Bay, along shores of Cape Bathurst and Baillie Islands, along coast of Bathurst Peninsula into Franklin Bay, then to Paulatuk via Cape Parry	
85-0004	SAS	INC	INC	INC	southeast Beaufort Sea and Amundsen Gulf, from shore seaward to edge of pack-ice	Note 5
85-0005	SAS	July 18	July 18	continuous	6 lines, offshore Mackenzie Delta, from shore seaward to approximately 69°40'-69°58'N	
	SAS	July 22	July 22	continuous	5 lines, offshore Yukon Coast from shore seaward to 69°30'-69°40'N	
	SAS	July 24	July 24	continuous	2 lines, bisecting Amundsen Gulf from Darnley Bay to Cape Lambton, Banks Island	
85-0006	RAS	Aug. 18	Aug. 18	discontinuous (stopped for 1 h at Komakuk)	ferrying flights through Shallow Bay, and offshore Yukon Coast to Komakuk Beach, approximately 5-10 km from shore (1 flight) and 1-2 km from shore (1 flight); and reconnaissance flights in this area (photography) simultaneously	
	SAS	Aug. 18	Aug. 18	continuous	4 lines offshore Yukon Coast from Alaska-Yukon border (141°W) to Herschel Island, from the 2 m isobath seaward to 70°45'-70°50'N	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
85-0006 (cont'd)	RAS	Aug. 19	Aug. 19	discontinuous (stopped at Shingle Point)	ferrying flight through Shallow Bay, and offshore Yukon Coast, Shingle Point to Kay Point, approximately 1-2 km from shore, and reconnaissance flights in this area and 20-30 km from shore (photography) simultaneously	
	SAS	Aug. 19	Aug. 19	discontinuous (stopped for 1.5 h)	6 lines, offshore Yukon Coast to west side Mackenzie Delta, from 2 m isobath seaward to 70°05'-70°10'N, and reconnaissance flight in this area (photography) simultaneously	
	SAS, RAS	Aug. 20	Aug. 20	discontinuous (stopped for 1 h at Tuktoyaktuk)	6 lines, offshore Mackenzie Delta from 2 m isobath to 70°40'N, and reconnaissance flights in the same area (photography) simultaneously	
	SAS, RAS	Aug. 21	Aug. 21	discontinuous (stopped for 1 h at Nicholson Point)	8 lines, offshore Tuktoyaktuk Peninsula, from 2 m isobath seaward to 70°35'-71°N, and reconnaissance flights in same area (photography) simultaneously	
	SAS	Aug. 22	Aug. 22	discontinuous (stopped at 2 h at Komakuk Beach for weather)	8 lines, offshore Yukon Coast between Tent Island and Komakuk Beach, from 2 m isobath seaward 32 km	
	RAS	Aug. 24	Aug. 24	continuous	reconnaissance flight along coast of Baillie Islands	
	SAS, RAS	Aug. 24	Aug. 24	continuous	2 lines, offshore Baillie Islands, from 2 m isobath seaward to approximately 71°30'N, and reconnaissance flights in same area (photography) simultaneously	
	RAS	Aug. 25	Aug. 25	discontinuous (stopped for 1 h at Shingle Point)	reconnaissance flight (photography) offshore Yukon Coast between Shingle Point and Kay Point, from shore to 50 km seaward	
	SAS	Sep. 11	Sep. 11	continuous	4 lines, offshore Yukon Coast between Alaska-Yukon border and Herschel Island, from 2 m	

TABLE 3

DATA SET I.D.	METHOD	TIME SAMPLED			GEOGRAPHIC LOCATION	REMARKS
		START	STOP	INTERVAL		
85-0006 (cont'd)					isobath seaward to 70°30'N	
	RAS	Sep. 11	Sep. 11	continuous	ferrying flight offshore Yukon Coast, Shingle Point to Kay Point, Herschel Island, Komakuk Beach	
	SAS	Sep. 12	Sep. 12	discontinuous (stopped for 1.5 h at Shingle Point)	6 lines, offshore Yukon Coast and west side Mackenzie Delta, from 2 m isobath seaward to 69°30'-70°20'N	
	SAS	Sep. 14	Sep. 14	discontinuous (stopped for 1.5 h at Tuktoyaktak)	8 lines, offshore Kugmallit Bay and Tuktoyaktuk Peninsula, from 2 m isobath seaward to 70°55'-71°10'N	
	SAS	Sep. 16	Sep. 16	continuous	2 lines, offshore McKinley Bay, from 2 m isobath seaward to approximately 71°10'N	
85-0007	RVS	INC	INC	INC	offshore Yukon Coast	Note 5
	SVS	INC	INC	INC	offshore Yukon Coast	Note 5
85-0008	Incidental reports, vessel watch	July	Nov.	10 min. watch periods, scheduled every 3 h	southeast Beaufort Sea (area of industry activity)	Note 5
85-0009	RIS	INC	INC	discontinuous (bear search)	southeast Beaufort Sea and Amundsen Gulf	Note 5
85-0010	RAS	INC	INC	discontinuous, variable	southeast Beaufort Sea and Amundsen Gulf	Note 5
85-0011	RAS	Aug.	Oct.	continuous	offshore Yukon Coast, between 141°W and Herschel Island	Note 5