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NOGAP B.2; List of Scientific Names of Algae, Invertebrates, and Vertebrates Captured under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988

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SUBPROJECTS B.2.1 AND B.2.3, 1984 TO 1988**

by

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PREFACE

This study was funded by the Northern Oil and Gas Action Program (NOGAP), through the Department of Fisheries and Oceans, Central and Arctic Region. It is one of a series of projects executed under NOGAP B.2, to provide background data for assessing the implications of hydrocarbon development and production on critical estuarine and marine habitats of the Canadian Arctic Coastal Shelf. This document constitutes NOGAP Report B2.46.

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ABSTRACT

Hopky, G.E., M.J. Lawrence, S.M. McRae, and D.B. Chipertzak. 1994. NOGAP B.2; List of scientific names of algae, invertebrates, and vertebrates captured under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988. Can. Data Rep. Fish. Aquat. Sci. 924: iv + 76 p.

A summary of the scientific names of all algae, invertebrates, and vertebrates captured from the Canadian Beaufort Sea shelf area under the Northern Oil and Gas Action Program (NOGAP) Subprojects B.2.1 and B.2.3 is given in three forms: 1) according to phylogenetic relationships; 2) ordered numerically by species codes assigned according to a species catalogue developed exclusively for these Subprojects; and 3) alphabetically by species name or taxonomic group name. A total of 787 taxonomic identifications were assigned to specimens captured from these Subprojects. Five phyla, seven classes, and 127 genera and/or species under the Kingdom Protista and 24 phyla, 39 classes, 96 orders, 261 families, and 518 genera and/or species under the Kingdom Animalia were represented in the organisms captured.

Key words: Arctic; Beaufort Sea; Mackenzie River; taxonomy; species list; species catalogues; marine; estuarine; freshwater.

RÉSUMÉ

Hopky, G.E., M.J. Lawrence, S.M. McRae, and D.B. Chipertzak. 1994. NOGAP B.2; List of scientific names of algae, invertebrates, and vertebrates captured under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988. Can. Data Rep. Fish. Aquat. Sci. 924: iv + 76 p.

On a dressé une liste des noms scientifiques de toutes les algues et de tous les invertébrés et vertébrés capturés sur la plateforme continentale de la mer de Beaufort dans le cadre des sous-projets B.2.1 et B.2.3 du Programme d'initiatives pétrolières et gazières dans le Nord (PIPGN). Cette liste es présentée sous les trois formes suivantes: 1) en fonction d'un code d'espèce assigné selon le mode de classement d'un catalogue élaboré spécialement pour ces sous-projets et 3) par ordre alphabétique en fonction du nom de l'espèce ou du groupe taxinomique. On a associé les spécimens capturés dans le cadre de ces sous-projets à un total de 787 groupes taxinomiques. Cinq phylums, sept classes et 127 genres ou espèces du règne des Protistes, de même que 24 phylums, 39 classes, 96 ordres, 261 familles et 518 genres ou espèces du règne animal, étaient représentés parmi les organismes capturés.

Mots-clés: Arctique; mer de Beaufort; fleuva Mackenzie; taxinomie; liste d'espèces; catalogues d'espèces; marin; estuarien; potamique.

INTRODUCTION

This report lists the scientific names of all organisms captured as part of the Beaufort Shelf Fish Habitat Research Subproject (B.2.1) and the Nearshore Benthic Monitoring Subproject (B.2.3). These studies are components of the Critical Estuarine and Marine Habitat Project (B.2) undertaken by staff of the Department of Fisheries and Oceans (DFO), Central and Arctic Region, as part of the Northern Oil and Gas Action Program (NOGAP). NOGAP is a multi-disciplinary study to provide background data for assessing the potential effects of hydrocarbon development and production on the critical marine and estuarine habitats of the Canadian Arctic coastal shelf. This report is a supplement to and reference companion for existing and forthcoming reports documenting the biological data collected in Subprojects B.2.1 and B.2.3.

Subproject B.2.3 was conducted in March 1985 to 1988, in Tuktoyaktuk Harbour and Mason Bay, which are located on the eastern side of the Mackenzie River estuary (Fig. 1). Subproject B.2.1 was conducted throughout the seasons of 1984 to 1988 on the Canadian Beaufort Sea shelf and Mackenzie River estuary in an area extending from the inshore reaches of the Mackenzie River estuary, including Tuktoyaktuk Harbour and Mason Bay, out to about the 200 m isobath and bounded to the west by Herschel Island and to the east by Amundsen Gulf (Fig. 1).

Details on Subproject objectives, sampling and analytic methodologies, and results, including species abundance, distribution and life history data are reported elsewhere, or in reports presently in preparation for the algae, zooplankton, and benthos (Hopky, pers. comm.), and ichthyoplankton (e.g. Chipertzak et al. 1990) and adult fish (e.g. Chipertzak et al. 1991; Hopky, pers. comm.). In summary, Subproject B.2.1 involved the collection of algae from the underice surface, of zooplankton and ichthyoplankton during ice cover with 63 μm Wisconsin gear, and during open water with 763 μm Wisconsin, 500 μm neuston, and 85 and 500 μm bongo gear, and of fish with gillnets in winter and otter and mid-water trawls during open water, with incidental catches of invertebrates in the trawl gear. Subproject B.2.3 involved the collection of macrobenthos (>500 μm screen) and meiobenthos (64 and 212 μm screen), with Van Veen grabs and cores, respectively.

Two points are relevant to understanding the background preparation and reporting of the data with respect to the scientific names identified in this report. Firstly, with the exception of the ichthyoplankton and winter fish catches, the counting and identification of all samples collected for these Subprojects was undertaken by contract laboratories. All laboratories used the species catalogue and coding system described below; however, there was no inter-calibration of specimen identifications between laboratories. One laboratory was responsible for all algal identifications. A second laboratory was responsible for identifications of zooplankton samples for all 63 μm Wisconsin and 85 μm bongo gear, and for all the stomach content analyses of ichthyoplankton captured in neuston and 500 μm bongo gear. The third laboratory was responsible for identifications of zooplankton from all 763 μm Wisconsin, virtually all 500 μm bongo and neuston gear samples, of zoobenthos from all Subproject B.2.3 samples and of zooplankton, and fish and their stomach contents from the various otter and mid-water trawl sampling programs. A fourth laboratory was responsible for a limited number of the neuston and 500 μm bongo gear samples.

Secondly, all contract laboratories had a demonstrated expertise in systematics of polar species, and followed standard protocols, including the use of keys, reference texts, and reference collections. Table 1 identifies the reference texts for the major taxonomic groups collected, while Table A1.1 (Appendix 1) gives the citation for each reference. Verifications of zoo- and ichthyoplankton specimens were also made, as required, by consulting with noted authorities.

In conjunction with development of the species list, specimens collected from these Subprojects have resulted in, or contributed to, increased understanding of the taxonomy and distribution of invertebrates in the study area (Higgins and Korczynski 1989; Keast and Lawrence 1990a, b; Korczynski 1989, 1990; Korczynski et al. 1989; Lawrence and Keast 1990). Samples of many of the invertebrate (number of samples = 254) and vertebrate (number of samples=31) specimens, including the urochordates and ichthyoplankton, are stored in reference collections at DFO, Winnipeg.

The scientific names reported here are organized using three formats: 1) according to phylogenetic relationships; 2) numerically by a six-

digit species identification code from a catalogue developed for these Subprojects; and 3) alphabetically by species or higher taxonomic level names.

SPECIES CATALOGUE

To facilitate organization and manipulation of the biological data a six-digit numeric code was assigned to each unique organism identified. The first two digits represented the taxonomic group with which the organism was associated (Table 1). Assignment of group taxonomic level varied from suborder to kingdom depending on several criteria, including the relative abundance of different species within a taxonomic level (e.g. to Phylum for poriferans versus to Class, Order, or Suborder for the many species within Subphylum Crustacea), the target level of systematic identification for specimens (e.g. to species for copepods versus Phylum for nematodes), and on what may be referred to as 'common' names for groupings of species, such as copepods, cladocerans, mysids, isopods, etc. Taxonomic group codes were assigned to different taxonomic divisions at the same level of taxonomy within a higher systematic level. For example, the three groups 80000, 90000 and 100000 represent different Classes of the Phylum Cnidaria. The exception to this is with the Order Tanadacea (code 400000), which is systematically 'nested' within another group, the Class Ostracoda (code 350000). The second pair of digits represents the intermediate taxonomic group which varied from Family to Class. The third pair of digits represents the genus and/or species. Revisions to the coding system were required throughout the study period as additional species were identified and understanding of the classification of species evolved.

PHYLOGENETIC LISTING

Table 2 is a phylogenetic classification for the organisms caught under Subprojects B.2.1 and B.2.3 in the study area. Organisms that were caught and identified are those which have a species code assigned in the right hand margin of Table 2. Table 2 includes all the major taxonomic divisions (Phylum, Class, Order, and Family) pertinent to all specimens identified during the study. Secondary divisions (Subphylum, Suborder, Super-

family, etc.) were included only in those instances when an organism was captured and identified specifically to that level (e.g. Suborder Rotaliina). Six additional codes (870000-940000) were assigned to miscellaneous non-phylogenetic groups.

This listing is not based on any one comprehensive classification source or even a number of sources using the same scheme because taxonomic classification is constantly changing and there is no broadly accepted classification system incorporating all taxonomic levels. Thus, several references were consulted in devising the phylogenetic listing presented in Table 2. Phyla of the Kingdom Protista are ordered according to Round (1966). Phyla and Classes within the Kingdom Animalia were listed in the phylogenetic order proposed in Barnes (1987) for the invertebrates and urochordates, while Nelson (1984) was used for the vertebrates (i.e. fish). Lower taxonomic levels were ordered alphabetically as no source outlining the relationships between all taxa was available. The phylogenetic relationship (i.e. the Class, Order and Family to which each genus belonged) and spelling for each organism were determined from the sources identified in the References column in Table 3, with corresponding citations listed in Table A1.1 (Appendix 1).

A total of 787 identification codes were assigned throughout the course of the B.2.1 and B.2.3 Subprojects, including six miscellaneous non-taxonomic groups. Five phyla, seven classes, and 127 genera and/or species were represented from the Kingdom Protista. Twenty-four phyla, 39 classes, 96 orders, 261 families, and 518 genera and/or species were represented from the Kingdom Animalia. Various subphyla, subclasses, etc. were also included in the taxonomic list when necessary.

SPECIES CODE LISTING

The species list is presented in Table 3 ordered by the numeric species code assigned to a specimen when it was identified.

ALPHABETICAL LISTING

Table 4 is an alphabetical list of taxonomic names of specimens captured under Subprojects B.2.1 and B.2.3. For specimens that are systematically

higher than genus and/or species, taxonomic level is indicated in parentheses (e.g. Acari (Order)). Phylum, taxonomic group, and species code are also included as cross references.

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Ms. D. Laroque assisted in typing of the report.

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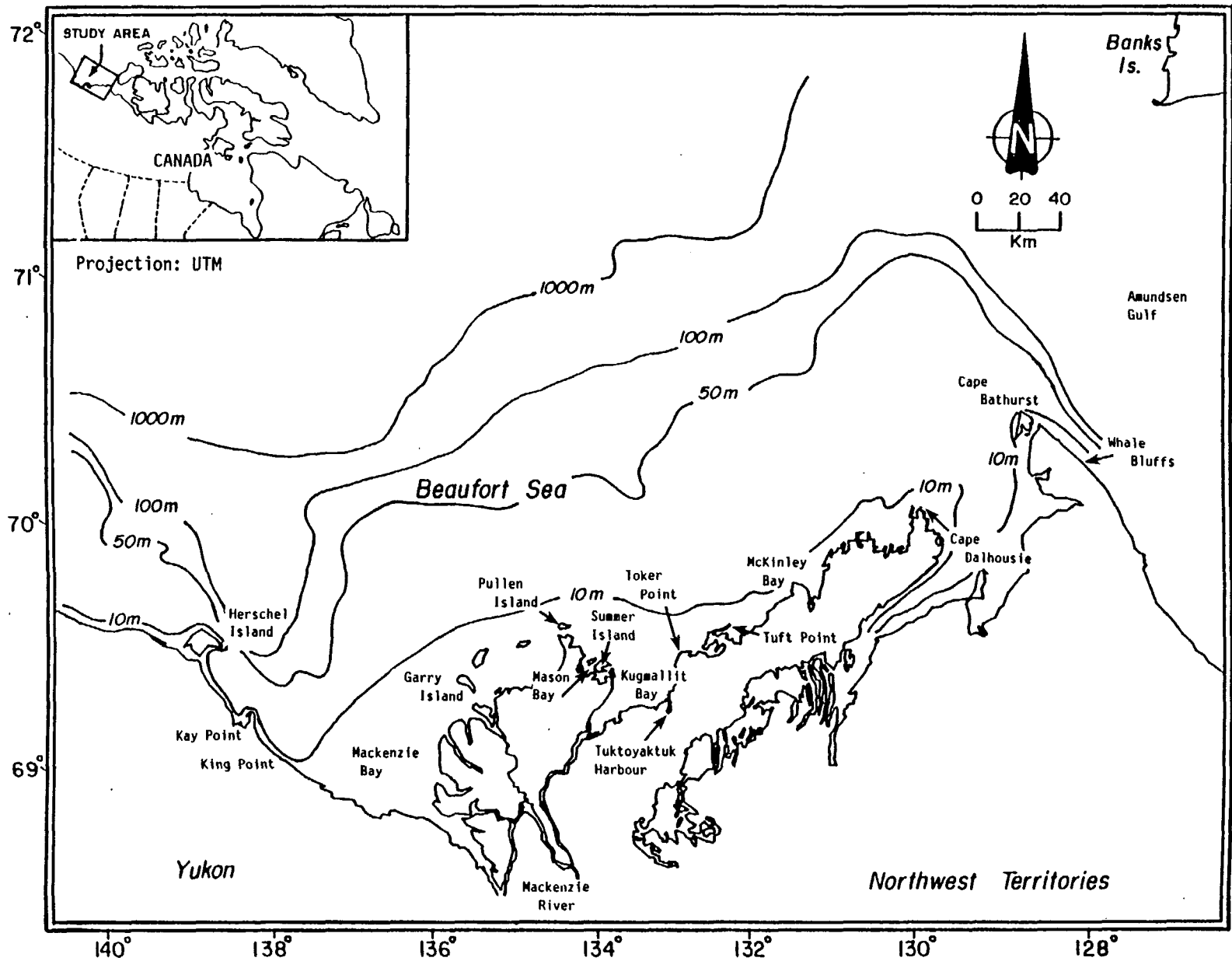


Fig. 1. Location of study area for NOGAP Subprojects B.2.1 and B.2.3.

Table 1. List of taxonomic groups used in NOGAP Subprojects B.2.1 and B.2.3, and corresponding references used for taxonomic identification.

Code	Taxonomic Group Name	Phylum	Subphylum	Class	Reference
020000	Protista (Kingdom)				Balech (1974); Cleve-Euler (1951-55); Horner (1985); Hsiao (1983); Hustedt (1930a; 1930b); Lebour (1930); Schiller (1933, 1937); Swayda (1978)
040000	Ciliophora (Phylum)				
050000	Dinoflagellida (Order)	Sarcomastigophora	Mastigophora	Phytomastigophora	
060000	Foraminiferida (Order)	Sarcomastigophora	Sarcodina	Granuloreticulosa	
070000	Porifera (Phylum)				
080000	Hydrozoa (Class)	Cnidaria			Arai and Brinckman-Voss (1980); Calder (1970); Gosner (1971); Hand (1975); Nutting (1905); Russell (1939, 1950, 1955); Shih (1977); Smith (1964)
090000	Scyphozoa (Class)	Cnidaria			Shih (1977)
100000	Anthozoa (Class)	Cnidaria			Carlisle (1933); Gosner (1971); Hyman (1940); Minchin, Fowler, and Bourne (1900); Stephenson (1928); Verrill (1922)
120000	Ctenophora (Phylum)				Gosner (1971); Grainger and Grohe (1975); Greve (1975)
130000	Platyhelminthes (Phylum)				
140000	Nemertea (Phylum)				Barnes (1987); Gosner (1971)
150000	Rotifera (Phylum)				Berzins (1960a; 1960b)
170000	Kinorhyncha (Phylum)				
180000	Nematoda (Phylum)				
190000	Priapulida (Phylum)				
200000	Sipuncula (Phylum)				
210000	Echiura (Phylum)				
230000	Polychaeta (Class)	Annelida			Banse (1972); Banse and Hobson (1974); Barnes (1987); Berkeley and Berkeley (1956, 1962); Curtis (1972); Day (1977); Fauchald (1974, 1977, 1982); George and Hartmann-Schroeder (1985); Gosner (1971); Grainger (1954); Hobson and Banse (1981); Holthe (1975); Malmgren (1865); Pettibone (1954, 1957, 1963, 1976); Smith (1964); Ushakov (1965, 1972)

Table 1. List of taxonomic groups used in NOGAP Subprojects B.2.1 and B.2.3, and corresponding references used for taxonomic identification (CONTINUED).

Taxonomic Group		Phylum	Subphylum	Class	Reference
Code	Name				
310000	Oligochaeta (Class)	Annelida			
320000	Hirudinea (Class)	Annelida			
330000	Acari (Order)	Arthropoda	Chelicerata	Arachnida	Cook (1974); Crowell and Davids (1979); Krantz (1970, 1978); Marshall (1924); Newell (1947); Prasad and Cook (1972)
340000	Pycnogonidae (Class)	Arthropoda	Chelicerata		Gosner (1971); Hedgpeth (1963, 1975)
350000	Ostracoda (Class)	Arthropoda	Crustacea		Moore (1961); Poulsen (1969a; 1969b); Sars (1928)
360000	Copepoda (Class)	Arthropoda	Crustacea		Brodskii (1950); Coull (1977); Damkaer (1975); Farran (1948a; 1948b; 1948c; 1948d; 1951a; 1951b; 1951c; 1951d); Frost (1971); Gardner and Szabo (1982); Grainger (1961); Heron (1964); Lang (1948); Pennak (1978); Roff (1978); Sars (1903; 1911; 1918); Smith (1964); Vervoort (1952); Vidal (1971); Ward and Whipple (1966); Wilson (1932); Yashnov and Bronshtein (1948)
370000	Cladocera (Suborder)	Arthropoda	Crustacea	Branchiopoda	
380000	Cirripedia (Class)	Arthropoda	Crustacea		
390000	Cumacea (Order)	Arthropoda	Crustacea	Malacostraca	Given (1965); Hart (1939); Jones (1957a; 1957b); Sars (1900); Wacasey (1975)
400000	Tanaidacea (Order)	Arthropoda	Crustacea	Ostracoda	
410000	Mysidacea (Order)	Arthropoda	Crustacea	Malacostraca	Brunel (1960); Holmquist (1959); Leung (1972); Mauchline (1980); Yashnov (1948)
420000	Isopoda (Order)	Arthropoda	Crustacea	Malacostraca	Bray (1962); Gurjanova (1933); Korczynski (1983); Naylor (1957); Richardson (1905); Sars (1899); Schultz (1969); Yashnov (1948)
430000	Amphipoda (Order)	Arthropoda	Crustacea	Malacostraca	Barnard (1962; 1969; 1975); Bousfield (1973); Conlan (1983); Dana (1852); Dickinson (1982; 1983); Dunbar (1954); Gosner (1971); Gurjanova (1951); Just (1980); Meyers (1976); Mills (1959); Sars (1895); Shoemaker (1955); Steele (1982); Steele and Brunel (1968); Stephensen (1935; 1942)
440000	Euphausiacea (Order)	Arthropoda	Crustacea	Malacostraca	Banner (1949); Einarsson (1945); Mauchline (1971)
450000	Decapoda (Order)	Arthropoda	Crustacea	Malacostraca	Butler (1980); Frost (1936); Gosner (1971); Hart (1939); Rice (1967); Squires (1969); Williams (1974); Williamson (1967); Yashnov and Bronshtein (1948)
460000	Insecta (Class)	Arthropoda	Uniramia		Borror and DeLong (1964); Downes and Wirth (1981); Doyen and Ulrich (1978); Edmunds (1978); Evans (1978); Gagne (1981); Hardy (1981); McAlpine (1981); Oliver (1981);

Table 1. List of taxonomic groups used in NOGAP Subprojects B.2.1 and B.2.3, and corresponding references used for taxonomic identification (CONTINUED).

Taxonomic Group Code	Taxonomic Group Name	Phylum	Subphylum	Class	Reference
					Steffan (1981); Steyskal and Knutson (1981); Vockeroth (1981); White (1983)
470000	Tardigrada (Phylum)				
480000	Gastropoda (Class)	Mollusca			Bousfield (1960); Clarke (1974); Gosner (1971); Hyman (1967); Keen and Coan (1974); Macpherson (1971); Morris (1966); Hybakken (1975)
510000	Bivalvia (Class)	Mollusca			Bousfield (1960); Clarke (1974); Dunnill and Ellis (1969); Ellis (1959); Filatova (1948); Gosner (1971); Lubinsky (1980); Morris (1966); Hybakken (1975); Smith (1964)
530000	Cephalopoda (Class)	Mollusca			
550000	Bryozoa (Phylum)				Gosner (1971); Hulsemann and Soule (1962); Hyman (1955); Kluge (1962); Madrid (1984); Powell (1968); Robertson (1904)
560000	Phoronida (Phylum)				
570000	Brachiopoda (Phylum)				
580000	Chaetognatha (Phylum)				Dawson (1971); Fraser (1957); Gosner (1971); Hyman (1959)
590000	Crinoidea (Class)	Echinodermata			
600000	Stelleroidea (Class)	Echinodermata			Gosner (1971); Grainger (1955); Hyman (1955); Shorygin (1948)
610000	Holothuroidea (Class)	Echinodermata			Hyman (1955); Shorygin (1948)
620000	Echinoidea (Class)	Echinodermata			
630000	Ascidiacea (Class)	Chordata	Urochordata		Kott (1985)
640000	Larvacea (Class)	Chordata	Urochordata		Alldrege (1977); Barnes (1987); Buckmann (1969); Gosner (1971); Leung (1972); Mahoney and Buggein (1983)
650000	Crustacea (Subphylum)	Arthropoda			
660000	Entoprocta (Phylum)				Roff (1978)
740000	Petromyzontidae (Family)	Chordata	Vertebrata	Cephalaspidomorpha	Scott and Crossman (1973)
750000	Clupeidae (Family)	Chordata	Vertebrata	Osteichthyes	Fahay (1983); McGowan and Berry (1984); Ratynski (1983)

Table 1. List of taxonomic groups used in NOGAP Subprojects B.2.1 and B.2.3, and corresponding references used for taxonomic identification (CONTINUED).

Taxonomic Group		Phylum	Subphylum	Class	Reference
Code	Name				
760000	Osmeridae (Family)	Chordata	Vertebrata	Osteichthyes	Hearne (1984); McPhail and Lindsey (1970); Ratynski (1983)
770000	Salmonidae (Family)	Chordata	Vertebrata	Osteichthyes	Hinrichs (1979); Kendall and Behnke (1984); McPhail and Lindsey (1970)
780000	Gadidae (Family)	Chordata	Vertebrata	Osteichthyes	Dunn and Matarese (1984); Dunn and Vinter (1984); Fahay and Markle (1984); Markle (1982); Scott and Crossman (1973)
790000	Gasterosteidae (Family)	Chordata	Vertebrata	Osteichthyes	McPhail and Lindsey (1970); Scott and Crossman (1973)
800000	Cottidae (Family)	Chordata	Vertebrata	Osteichthyes	Andriyashev (1954); Khan (1971); Ratynski (1983); Washington, Eschmeyer and Howe (1984); Washington et al. (1984)
810000	Agonidae (Family)	Chordata	Vertebrata	Osteichthyes	Andriyashev (1954); Fahay (1983); Washington, Eschmeyer and Howe (1984); Washington et al. (1984)
820000	Cyclopteridae (Family)	Chordata	Vertebrata	Osteichthyes	Able and McAllister (1980); Able, Markle and Fahay (1984)
830000	Zoarcidae (Family)	Chordata	Vertebrata	Osteichthyes	McAllister, Anderson and Hunter (1981)
840000	Stichaeidae (Family)	Chordata	Vertebrata	Osteichthyes	Almukhov (1981); Andriyashev (1954)
850000	Ammodytidae (Family)	Chordata	Vertebrata	Osteichthyes	Fahay (1983); Scott (1972a; 1972b); Stevens, Matarese and Watson (1984)
860000	Pleuronectidae (Family)	Chordata	Vertebrata	Osteichthyes	Ahlstrom et al. (1984); Andriyashev (1954); Hensley and Ahlstrom (1984); Ratynski (1983)
870000	Unidentified fish larvae				
880000	Unidentified fish egg				
910000	Unidentified invertebrate				
920000	Unidentified egg				
930000	Plant/Vegetative matter				
940000	Stones, pebbles				

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered according to phylogenetic relationships.

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Kingdom Protista		020000
Phylum Chrysophyta		
Class Bacillariophyceae		020001
<u>Achnanthes taeniata</u>	Grunow 1880	021011
<u>Amphiprora alata</u>	(Ehrenberg 1840)Kutzing	021021
<u>Amphiprora gigantea</u> var. <u>septentrionalis</u>	(Grunow) Cleve 1880	021022
<u>Amphiprora kjellmani</u>	Cleve	021023
<u>Amphiprora kjellmani</u> var. <u>striolata</u>	(Grunow) Cleve 1880	021024
<u>Amphiprora paludosa</u>	Wm. Smith 1853	021025
<u>Amphiprora paludosa</u> var. <u>hyperborea</u>	(Grunow) Cleve 1880	021026
<u>Amphiprora paludosa</u> var. <u>punctulata</u>	(Grunow) Cleve 1880	021027
<u>Amphora</u> cf. <u>laevis laevis</u>	(Gregory 1857) Cleve 1895	021031
<u>Amphora proteus</u>	Gregory 1857	021032
<u>Caloneis brevis</u>	(Gregory 1857) Cleve 1894	021041
<u>Caloneis liber</u>	(Wm. Smith 1853) Cleve 1894	021042
<u>Cerataulina pelagica</u>	(Cleve 1889) Hendey 1937	021051
<u>Chaetoceros ceratosporum</u>	Ostenfeld 1910	021061
<u>Chaetoceros gracilis</u>	Paulsen 1905	021062
<u>Chaetoceros septentrionalis</u>	Ostrup 1895	021063
<u>Cocconeis placentula</u> var. <u>euglypta</u>	(Ehrenberg 1854) Grunow 1884	021071
<u>Cocconeis scutellum</u> var. <u>stauroneiformis</u>	Rabenhorst 1864	021072
<u>Coscinodiscus</u> sp.		021080
<u>Coscinodiscus kuetzingii</u>	Schmidt 1878	021081
<u>Cyclotella comta</u>	(Ehrenberg 1844) Kutzing	021091
<u>Cylindrotheca closterium</u>	(Ehrenberg 1839) Reimann et Lewin	021101
<u>Diatoma elongatum</u>	(Lyngbye 1819) Agardh 1824	021111
<u>Diploneis incurvata</u>	(Gregory 1856) Cleve	021121
<u>Diploneis litoralis</u> var. <u>clathrata</u>	(Ostrup 1895) Cleve	021122
<u>Diploneis vacillans</u>	(A. Schmidt 1875) Cleve	021123
<u>Eunotia lunaris</u>	(Ehrenberg 1831) Brebisson	021131
<u>Fragilaria construens</u>	(Ehrenberg 1841) Grunow	021141
<u>Fragilaria islandica</u>	Grunow in Van Heurck 1881	021142
<u>Fragilaria pinnata</u>	Ehrenberg 1841	021143
<u>Fragilaria striatula</u>	Lyngbye 1819	021144
<u>Gomphonema</u> sp.	Agardh 1824	021150
<u>Gomphonema exiguum</u>	Kutzing 1844	021151
<u>Gomphonema kantschaticum</u>	Grunow 1878	021152
<u>Gyrosigma</u> cf. <u>kuetzingii</u>	(Grunow 1860) Cleve	021161
<u>Hantzschia weyprechtii</u>	Grunow 1880	021171
<u>Licmophora gracilis</u> var. <u>anglica</u>	(Kutzing) Peragallo	021181
<u>Melosira arctica</u>	Dickie in litt.	021191
<u>Navicula</u> sp.	Bory 1822	021200
<u>Navicula algida</u>	Grunow 1884	021201
<u>Navicula bahusiensis</u>	(Grunow in Van Heurck 1880)	021202
<u>Navicula directa</u>	(Wm. Smith 1856) Ralfs	021203
<u>Navicula directa</u> var. <u>cuneata</u>	Ostrup 1895	021204
<u>Navicula gastrum</u>	(Ehrenberg 1841) Kutzing	021205
<u>Navicula glacialis</u>	(Cleve 1873) Grunow	021206
<u>Navicula gracilis</u>	Ehrenberg 1830	021207
<u>Navicula kariana</u>	Grunow in Cleve & Grunow 1880	021208
<u>Navicula maculosa</u>	Donkin 1871	021209
<u>Navicula marina</u>	Ralfs in Pritchard 1861	021211
<u>Navicula pelagica</u>	Cleve 1896	021212
<u>Navicula pygmaea</u>	Kutzing 1849	021213
<u>Navicula rhynchocephala</u>	Kutzing 1844	021214
<u>Navicula salinarum</u>	Grunow in Cleve & Muller 1878	021215
<u>Navicula scopulorum</u>	Brebisson in Kutzing 1849	021216
<u>Navicula spicula</u>	(Hickie 1874) Cleve	021217
<u>Navicula vanhoeffenii</u>	Gran 1897	021218
<u>Navicula vitrea</u>	Grunow in Cleve & Muller 1879	021219
<u>Neidium bisulcatum</u>	(Lagerstedt 1873) Cleve	021221
<u>Neidium bisulcatum</u> cf. var. <u>undulata</u>	Muller 1898	021222

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Nitzschia</u> sp.	Hassal 1845	021230
<u>Nitzschia acicularis</u>	(Kutzing 1844) Wm. Smith	021231
<u>Nitzschia</u> cf. <u>acuminata</u>	(Wm. Smith 1853) Grunow	021232
<u>Nitzschia angularis</u>	Wm. Smith 1853	021233
<u>Nitzschia closterium</u>	(Ehrenberg 1839) Wm. Smith	021234
<u>Nitzschia cylindrus</u>	(Grunow) Hasle	021235
<u>Nitzschia frigida</u>	Grunow 1880	021236
<u>Nitzschia laevis</u>	Grunow in Cleve & Muller 1882	021237
<u>Nitzschia longissima</u>	(Brebisson in Kutzing) Grunow	021238
<u>Nitzschia</u> cf. <u>palea</u>	(Kutzing 1844) Wm. Smith	021239
<u>Nitzschia plana</u>	Wm. Smith 1853	021241
<u>Nitzschia polaris</u>	Grunow in Cleve & Muller 1882	021242
<u>Nitzschia seriata</u>	Cleve 1883	021243
<u>Nitzschia sigma</u>	(Kutzing 1844) Wm. Smith	021244
<u>Nitzschia sigmaidea</u>	(Nitzsch 1817) Wm. Smith	021245
<u>Nitzschia</u> cf. <u>thermalis</u>	(Ehrenberg 1841)	021246
<u>Pinnularia</u> cf. <u>gibba</u>	Ehrenberg 1841	021251
<u>Pinnularia quadratarea</u>	(A. Schmidt 1874) Cleve	021252
<u>Pinnularia quadratarea</u> var. <u>constricta</u>	(Ostrup 1895) Heiden	021253
<u>Pinnularia quadratarea</u> var. <u>minor</u>	(Grunow 1880) Cleve	021254
<u>Pleurosigma angulatum</u>	(Quekett 1848) Wm. Smith	021261
<u>Pleurosigma angulatum</u> var. <u>strigosum</u>	(Wm. Smith 1852) Van Heurck	021262
<u>Pleurosigma clevei</u>	Grunow 1880	021263
<u>Pleurosigma elongatum</u>	Wm. Smith 1852	021264
<u>Pleurosigma longum</u>	Cleve 1873	021265
<u>Pleurosigma salinarum</u>	(Grunow 1878) Grunow	021266
<u>Stauroneis</u> sp.	Verrill 1900	021270
<u>Stauroneis</u> cf. <u>linearis</u>	Wm. Smith 1853	021271
<u>Stauroneis quadripedis</u>	(Cleve-Euler 1952) Hendey	021272
<u>Stauroneis septentrionalis</u>	Grunow 1884	021273
<u>Stephanodiscus astraea</u>	(Ehrenberg 1844) Grunow	021281
<u>Synedra acus</u>	Kutzing 1844	021291
<u>Synedra camtschatica</u>	Grunow 1862	021292
<u>Synedra hyperborea</u>	Grunow 1884	021293
<u>Synedra pulchella</u>	(Ralfs 1844) Kutzing	021294
<u>Synedra tabulata</u>	(Agardh 1832) Kutzing	021295
<u>Synedra tabulata</u> var. <u>fasciculata</u>	(Lyngbye 1819?) Hustedt	021296
<u>Tabellaria flocculosa</u>	(Roth 1797) Kutzing	021301
<u>Thalassionema nitzschioides</u>	(Grunow 1862) Van Heurck	021311
<u>Thalassiosira baltica</u>	(Grunow 1880) Ostenfeld	021321
<u>Thalassiosira gravida</u>	Cleve 1896	021322
<u>Thalassiosira lacustris</u>	(Grunow) Hasle	021323
<u>Thalassiosira nordenskioldii</u>	Cleve	021324
<u>Thalassiothrix frauenfeldii</u>	(Grunow 1863)	021331
<u>Thalassiothrix longissima</u>	Cleve & Grunow in Cleve & Muller 1878	021332
Class Chrysophyceae		
<u>Chrysochromulina</u> sp.	Lackey 1938	024010
<u>Chrysococcus</u> sp.	Klebs	024020
<u>Ochromonas</u> sp.	Wysotzki	024030
Class Dictyophyceae		
<u>Ebria tripartita</u>	Lehmann	025011
Phylum Chlorophyta		
Class Chlorophyceae		
<u>Carteria</u> sp.	Diesing	023010
<u>Chlamydomonas</u> sp.	Ehrenberg 1833	023020
<u>Chlorococcus</u> sp.	Fries	023030
<u>Kirchneriella lunaris</u>	(Kirchner) Moebius	023041
<u>Koliella</u> sp.		023050
<u>Pyramidomonas grossi</u>	Parke	023061
<u>Schroederia</u> sp.	Lehmann	023070
Phylum Euglenophyta		

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Class Euglenophyceae		
<u>Euglena proxima</u>	Dangeard 1901	027011
<u>Euglena viridis</u>	Ehrenberg 1830	027012
Phylum Pyrrophyta		
Class Dinophyceae		
<u>Amphidinium</u> sp.	Claparide and Lachmann	022010
<u>Gymnodinium</u> sp.	Stein	022020
<u>Oxytoxum</u> sp.	Stein	022030
<u>Peridiniella catenata</u>	(Levander) Balech	022041
<u>Prorocentrum rampi</u>	Sournia	022051
<u>Protooperidinium bipes</u>	(Paulsen 1908) Balech	022061
<u>Protooperidinium globulus</u> var. <u>ovatum</u>	(Diwald) Balech	022062
<u>Protooperidinium grenlandicum</u>	(Woloszynska) Balech	022063
<u>Protooperidinium pellucidum</u>	Berg	022064
Phylum Cryptophyta		
Class Cryptophyceae		
<u>Cryptomonas</u> sp.	Ehrenberg	026010
Kingdom Animalia		
Phylum Sarcostigophora		
Subphylum Mastigophora		
Class Phytomastigophora		
Order Dinoflagellida		
		050000
Subphylum Sarcodina		
Class Granuloreticulosa		
Order Foraminiferida		
Suborder Miliolina		
Family ??		
<u>Pseudopolymorphina</u> sp.	Suzin	060440
Family Miliolidae		
<u>Quinqueloculina</u> sp.	d'Orbigny 1826	060410
<u>Quinqueloculina seminulum</u>	Linnaeus	060411
Family Nodosariidae		
<u>Dentalina</u> sp.	d'Orbigny 1826	060420
<u>Dentalina trujilloi</u>	Loeblich & Tappan	060421
Family Polymorphinidae		
<u>Eoquittulina anglica</u>	Cushman & Ozawa 1930	060431
Suborder Rotaliina		
		060450
Family Elphidiidae		
		060400
Family Globigerinidae		
<u>Globigerina</u> sp.	d'Orbigny 1826	060471
Suborder Textulariina		
		060460
Phylum Ciliophora		
Order Tintinnida		
		040100
Phylum Porifera		
Class Demospongiae		
Order Haplosclerida		
		070610
Phylum Cnidaria		
Class Hydrozoa		
		080000
Order Hydroida		
Family Aeginidae		
<u>Aeginopsis</u> sp.	Brandt 1835	080700
<u>Aeginopsis laurentii</u>	Brandt 1838	080701
Family Bougainvillidae		
<u>Bougainvillia</u> sp.	Lesson 1836	080880
<u>Bougainvillia britannica</u>	Forbes 1841	080883
<u>Bougainvillia yoldiaearcticae</u>	Birula	080882

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Family Calycopsidae		
<u>Eumedusa</u> sp.	Bigelow 1920	080760
<u>Eumedusa birulai</u>	(Linko 1913)	080761
Family Campanulariidae		
<u>Obelia</u> sp.	Peron & Lesueur 1807	080820
<u>Obelia longissima</u>	(Pallas 1766)	080821
<u>Phialidium</u> sp.	Leuckart 1854	080870
<u>Phialidium languidum</u>	Mayer 1910	080871
Family Corynidae		
<u>Sarsia</u> sp.	Lesson 1843	080830
<u>Sarsia princeps</u>	(Haeckel 1879)	080831
<u>Sarsia tubulosa</u>	(M. Sars 1835)	080833
Family Euphysidae		
<u>Euphysa</u> sp.	Forbes 1948	080770
<u>Euphysa flammea</u>	(Linko 1905)	080771
Family Haleciidae		
<u>Halecium</u> sp.	Oken 1815	080780
Family Melicertidae		
<u>Melicertum</u> sp.	Agassiz 1862	080800
<u>Melicertum octocostatum</u>	(M. Sars 1835)	080801
Family Mitrocomidae		
<u>Cosmetira</u> sp.	Forbes 1848	080890
<u>Cosmetira pilosella</u>	Forbes 1848	080891
Family Pandeidae		
<u>Catablema</u> sp.	Haeckel 1879	080730
<u>Halitholus</u> sp.	Hartlaub 1913	080790
<u>Halitholus cirratus</u>	Hartlaub 1913	080791
<u>Halitholus pauper</u>	Hartlaub 1913	080792
<u>Leuckartiara</u> sp.	Hartlaub 1913	080900
<u>Leuckartiara nobilis</u>	Hartlaub 1913	080901
Family Rathkeidae		
<u>Rathkea octocostatum</u>		080922
<u>Rathkea octopunctata</u>	(M. Sars 1835)	080921
Family Rhopalonematidae		
<u>Aglantha</u> sp.	Haeckel 1879	080710
<u>Aglantha digitale</u>	(Muller 1776)	080711
Family Sertulariidae		
<u>Sertularia</u> sp.	Linnaeus 1758	080850
<u>Sertularia plumosa</u>	(Clark 1876)	080851
Order Siphonophora		
Family Diphyidae		
<u>Dimophyes</u> sp.	Moser 1925	080750
<u>Dimophyes arctica</u>	(Chun 1897)	080751
Class Scyphozoa		
Order Semaestomeae		
Family Cyaneidae		
<u>Cyanea</u> sp.	Peron & Lesueur 1809	090010
<u>Cyanea capillata</u>	(Linnaeus 1758)	090011
		100000
Class Anthozoa		
Order Actiniaria		
Family Actiniidae		
<u>Actinia</u> sp.	Browne 1756	101150
Family Edwardsiidae		101120
Family Hormathiidae		
<u>Hormathia</u> sp.	Gosse 1859	101100
<u>Hormathia</u> sp. (? nodosa)	Fabricius 1780	101101
Family Metridiidae		
<u>Metridium</u> sp.	Oken 1815	101140
Order Alcyonacea		
Family Nephtheidae		
<u>Gersemia rubiformis</u>	(Ehrinberg 1834)	101111
Order Ceriantharia		
Family Cerianthidae		

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Cerianthus</u> sp.	Delle Chiaje 1830	101130
Phylum Ctenophora		120000
Class Tentaculata		
Order Cydippida		
Family Pleurobrachiidae		
<u>Mertensia</u> sp.	Lesson 1836	121220
<u>Mertensia ovum</u>	Fabricius 1780	121221
<u>Pleurobrachia</u> sp.	Fleming 1822	121230
<u>Pleurobrachia pileus</u>	(O.F. Muller 1776)	121231
Class Nuda		
Order Beroidea		
Family Beroidea		
<u>Beroe</u> sp.	Browne 1756	121200
<u>Beroe cucumis</u>	Fabricius 1780	121201
Order Lobata		
Family Bolinopsidae		
<u>Bolinopsis</u> sp.		121250
<u>Bolinopsis infundibulum</u>	(O.F. Muller 1776)	121251
<u>Mnemiopsis</u> sp.	Bovard & Osterud 1918	121210
Phylum Platyhelminthes		130000
Class Trematoda		
Order Digenea		
Family Hemiuridae		131420
<u>Brachyphallus</u> sp.	Odhner 1905	131400
<u>Brachyphallus crenatus</u>	(Rudolphi 1802)	131401
<u>Lecithaster</u> sp.	Luke 1901	131410
Class Cestoda		131430
Phylum Nemertea		140000
Class Anopla		
Order Heteronemertea		
Family Lineidae		
<u>Cerebratulus</u> sp.	Renier 1804	141500
<u>Heteronemertea</u> sp.		141530
Class Enopla		
Order Hoplonemertea		
<u>Hoplonemertea</u> sp.		141520
Phylum Nematoda		180000
Phylum Rotifera		150000
Class Monogononta		
Order Flosculariacea		
Family Conochilidae		
<u>Conichilus</u> sp.	Ehrenberg 1834	151620
Family Testudinellidae		
<u>Filinia</u> sp.	Bory de St. Vincent 1824	151660
Order Ploima		
Family Asplanchnidae		
<u>Asplanchna</u> sp.	Gosse 1850	151610
Family Brachionidae		
<u>Kellicottia</u> sp.	Ahlstrom 1938	151630
<u>Keratella</u> sp.	Bory de St. Vincent	151600
<u>Keratella cochlearis</u>	(Gosse 1851)	151601
<u>Keratella quadrata</u>	(Muller 1786)	151602
Family Synchaetidae		
<u>Polyarthra</u> sp.	Ehrenberg 1838	151640
Phylum Kinorhyncha		170000
Order Homalorhagida		
Family Pchnophyidae		

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Pycnophyes</u> sp.	Zelinka 1907	171700
<u>Pycnophyes canadensis</u>		171701
Phylum Priapulida		190000
Order Priapulomorpha		
Family Priapulidae		
<u>Halicryptus</u> sp.	von Siebold 1849	191800
<u>Halicryptus spinulosus</u>	von Siebold 1849	191801
<u>Priapulus</u> sp.	Lamarck 1816	191810
<u>Priapulus bicaudatus</u>	Danielsen 1868	191811
<u>Priapulus caudatus</u>	Lamarck 1816	191812
Phylum Annelida		
Class Polychaeta		230000
Order Capitellida		
Family Capitellidae		
<u>Capitella</u> sp.	Blainville 1828	232170
Family Maldanidae		
<u>Maldane sarsi</u>	Malmgren 1865	232451
Order Cirratulida		
Family Cirratulidae		232210
Order Cossurida		
Family Cossuridae		
<u>Cossura</u> sp.	Webster & Benedict 1887	232220
<u>Cossura longocirrata</u>	Webster & Benedict 1887	232222
Order Eunicida		
Family Dorvilleidae		
<u>Schistomeringos</u> sp.	Jumars 1974	232710
<u>Schistomeringos caeca</u>	(Webster & Benedict 1884)	232711
Family Lumbrineridae		
<u>Lumbrineris minuta</u>	Theel 1879	232422
Family Onuphidae		
<u>Nothria conchylega</u>	M. Sars 1835	232901
Order Opheliida		
Family Opheliidae		
<u>Ophelina cylindricaudatus</u>	(Hansen 1879)	232871
Order Orbiniida		
Family Orbiniidae		
<u>Scoloplos</u> sp. cf. <u>pugettens</u>	Pettibone 1957	232730
Order Phyllodocida		
Family Hesionidae		
<u>Nereimyra</u> sp.	Blainville 1828	232510
<u>Nereimyra aphroditoides</u>	Fabricius	232511
Family Nephtyidae		
<u>Micronephthys</u> sp.	Friedrich 1939	232480
<u>Micronephthys minuta</u>	(Theel 1879)	232481
<u>Nephtys</u> sp.	Cuvier 1817	232500
<u>Nephtys ciliata</u>	(Muller 1789)	232501
<u>Nephtys neotena</u>	(Noyes 1980)	232482
Family Nereidae		
<u>Nereis</u> sp.	Linnaeus 1758	232520
<u>Nereis pelagica</u>	Linnaeus 1758	232521
Family Pholoidae		
<u>Pholoe</u> sp.	Johnston 1839	232590
<u>Pholoe longa</u>	(Muller)	232592
<u>Pholoe cf. longa</u>		232593
Family Phyllodocidae		
<u>Eteone</u> sp.	Savigny 1817	232860
<u>Eteone flava</u>	(Fabricius 1780)	232862
<u>Eteone longa</u>	(Fabricius 1780)	232271
<u>Eteone spetzbergensis</u>	Malmgren 1865	232861
<u>Pelagobia</u> sp.	Greeff	232940
<u>Phyllocoe groenlandica</u>	Oersted 1842	232601

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Family Polymoidae		
<u>Antinoella</u> sp.	Augener 1928	232100
<u>Antinoella badia</u>	Theel	232101
<u>Bylgides</u> sp.		232910
<u>Bylgides sarsi</u>	(Kinberg 1862)	232911
<u>Gattyana</u> sp.	McIntosh 1897	232320
<u>Gattyana cirrosa</u>	(Pallas 1766)	232321
<u>Harmothoe extenuata</u>	(Grube 1840)	232341
<u>Melaenis loveni</u>	Malmgren 1865	232461
Family Sphaerodoridae		
<u>Sphaerodoropsis</u> sp.	Hartman & Fauchald 1971	232830
<u>Sphaerodoropsis minuta</u>	Webster & Benedict	232831
Family Syllidae		
<u>Autolytus</u> sp.	Grube 1850	232140
<u>Autolytus alexandri</u>	Malmgren 1867	232142
<u>Autolytus cornutus</u>	Agassiz 1863	232141
<u>Autolytus prismaticus</u>	(Gabricius 1780)	232143
<u>Exogone gemmifera</u>	Pagenstecher	232302
<u>Odontosyllis</u> sp.	Claparede 1863	232820
Order Sabellida		
Family Sabellidae		
<u>Euchone</u> sp.	Malmgren 1866	232280
<u>Euchone analis</u>	(Kroyer 1856)	232281
<u>Euchone papillosa</u>	(M. Sars 1851)	232282
<u>Fabricia</u> sp.	Blainville 1828	232890
Family Spirorbidae		
<u>Sinistrella verruca</u>	Chamberlain 1919	232881
Order Spionida		
Family Spionidae		
<u>Laonice cirrata</u>	(M. Sars 1851)	232381
<u>Polydora</u> sp.	Bosc 1801	232620
<u>Polydora ciliata complex</u>	(Johnston 1838)	232625
<u>Polydora quadrilobata</u>	Jacobi 1883	232624
<u>Prionospio cirrifera</u>	Wiren 1883	232661
<u>Scolecolepides arctius</u>	Chamberlin 1920	232721
Family Trochochaetidae		
<u>Trochochaeta carica</u>	Pettibone 1963	232801
Order Spiomorpha		
Family Cirratulidae		
<u>Tharyx</u> sp.	Webster & Benedict 1884	232790
Order Terebellida		
Family Ampharetidae		
<u>Ampharete acutifrons</u>	(Grube 1860)	232071
<u>Ampharete vega</u>	(Wiren 1883)	232073
<u>Lysippe labiata</u>	Malmgren 1865	232431
<u>Sosane sulcata</u>	Malmgren 1865	232851
Family Pectinariidae		
<u>Pectinaria</u> sp.	Malmgren 1865	232570
<u>Pectinaria hyperborea</u>	(Malmgren 1865)	232571
Family Terebellidae		
<u>Amphitrite</u> sp.	O.F. Muller 1771	232090
<u>Amphitrite cirrata</u>	Muller 1776	232091
<u>Lanassa</u> sp.	Malmgren 1865	232370
<u>Lanassa</u> sp. nr <u>L. venusta</u>	Malmgren 1874	232372
<u>Lanassa nordenskioldi</u>	Malmgren 1865	232371
<u>Lysilla loveni</u>	Malmgren 1865	232841
Family Trichobranchidae		
<u>Terebellides stroemi</u>	M. Sars 1835	232781
Class Oligochaeta		310000
Order Haplotaxida		
Family Tubificidae		
<u>Tubificoides</u> sp.	Lastockin 1937	313270
<u>Tubificoides cuspietosus</u>	Baker 1983	313271

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Class Hirudinea		320000
Order Rhynchobdellida		
Family Piscicolidae		
<u>Myzobdella lugubris</u>	Leidy 1851	323351
Phylum Mollusca		
Class Gastropoda		480000
Order Archaeogastropoda		
Family Trochidae		
<u>Margarites costalis</u>	Gould 1841	487651
<u>Margarites olivaceus</u>	(Brown 1827)	487652
Order Cephalaspidea		
Family Atyidae		
<u>Haminoea solitaria</u>	(Say 1822)	487611
Family Cylichnidae		
<u>Cylichna</u> sp.	Loven 1846	487570
<u>Cylichna alba</u>	Brown 1827	487571
<u>Cylichna occulata</u>		487572
Family Retusidae		
<u>Retusa</u> sp.	Brown 1827	487710
<u>Retusa obtusa (=pertenus)</u>	Montagna 1807	487711
Order Gymnosomata		
Family Clionidae		
<u>Clione</u> sp.	Simpson 1900	487550
<u>Clione limacina</u>	(Phipps 1774)	487551
Order Mesogastropoda		
Family Naticidae		
<u>Lunatia (=Polinices) pallida</u>	(Broderip & Sowerby 1829)	487641
<u>Natica clausa</u>	Broderip & Sowerby 1829	487671
Family Trichotropidae		
<u>Trichotropis</u> sp.	Broderip & Sowerby 1829	487740
<u>Trichotropis bicarinata</u>	Sowerby 1825	487741
<u>Trichotropis borealis</u>	Broderip & Sowerby 1829	487742
Family Turritellidae		
<u>Tachyrhynchus erosus</u>	(Couthouy 1838)	487731
Order Neogastropoda		
Family Buccinidae		
<u>Buccinum</u> sp.	Linnaeus 1758	487530
<u>Buccinum angulosum</u>	Gray 1839	487531
<u>Buccinum glaciale</u>	Linnaeus 1758	487532
<u>Buccinum tenue</u>	Gray 1839	487533
Family Cancellariidae		
<u>Admete couthouyi</u>	(Jay 1839)	487501
Family Echinochilidae		
<u>Echinochila (=Cadlina) laevis</u>	Linnaeus 1767	487601
Family Muricidae		
<u>Boreotrophon clathratus</u>	Linnaeus 1767	487521
Family Neptuneidae		
<u>Colus</u> sp.	Roding 1798	487560
<u>Colus togatus</u>	(Morch 1869)	487561
<u>Neptunea</u> sp.		487680
<u>Neptunea heros</u>	(Gray 1850)	487681
<u>Volutopsius</u> sp.	Morch 1857	487750
Family Turridae		
<u>Oenopota</u> sp.	Morch 1852	487690
<u>Oenopota</u> cf. <u>cinerea</u>	(Moller)	487698
<u>Oenopota incisula</u>	(Verrill 1882)	487694
<u>Oenopota turricula</u>	(Montagna 1803)	487697
Order Nudibranchia		487800
Family Eubranchidae		
<u>Eubranchus pallidus</u>	(Alder & Hancock 1842)	487761
Family Dendronotidae		
<u>Dendronotus frondosus</u>	Ascanius 1774	487581

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Order Thecosomata		
Family Limacinidae		
<u>Limacina</u> sp.	Bosc 1817	487630
<u>Limacina helicina</u>	(Phipps 1774)	487631
Class Bivalvia		510000
Order Arcoida		
Family Arcidae		
<u>Barbatia (=Arca) glacialis</u>	(Gray 1824)	518191
Order Myoidea		
Family Hiatellidae		
<u>Cyrtodaria kurriana</u>	Dunker 1862	517941
<u>Hiatella arctica</u>	(Linnaeus 1767)	517971
Family Myidae		
<u>Mya arenaria</u>	Linnaeus 1758	518032
Order Mytiloidea		
Family Mytilidae		
<u>Dacrydium vitreum</u>	(Moller[Holbein MS] 1842)	517951
<u>Musculus</u> sp.	Roding 1798	518020
<u>Musculus discors</u> var. <u>laevigatus</u>	(Gray 1824)	518022
<u>Musculus niger</u>	(Gray 1824)	518023
<u>Mytilus edulis</u>	Linnaeus 1758	518051
Family Pectinidae		
<u>Delectopecten groenlandicus</u>	(Sowerby 1842)	517961
Order Nuculoida		
Family Nuculanidae		
<u>Nuculana pernula</u>	(Muller 1779)	518072
Family Nuculidae		
<u>Nucula bellotif</u>	Adams 1856	518061
Family Yoldiidae		
<u>Portlandia</u> sp.	Morch 1857	518110
<u>Portlandia arctica</u> var. <u>aestua</u>	(Gray 1824)	518111
<u>Portlandia frigida</u>		518113
Order Pholadomyoidea		
Family Lyonsiidae		
<u>Lyonsia arenosa</u>	(Moller 1842)	517991
Order Veneroidea		
Family Astartidae		
<u>Astarte borealis</u>	(Schumacher 1817)	517911
<u>Astarte warhami</u>	(Hancock 1846)	517914
Family Cardiidae		
<u>Clinocardium</u> sp.	Kenn 1936	517930
<u>Clinocardium ciliatum</u>	Fabricius 1780	517931
<u>Serripes</u> sp.	Gould 1841	518120
<u>Serripes groenlandicus</u>	(Bruguiere 1789)	518121
Family Tellinidae		
<u>Macoma</u> sp.	Leach 1819	518000
<u>Macoma balthica</u>	(Linnaeus 1758)	518001
<u>Macoma calcarea</u>	(Amelin 1791)	518002
<u>Macoma calcarea</u> c.f. <u>oblique</u>	Sout-Ryen 1932	518006
<u>Macoma moesta</u>	(Deshayes 1855)	518003
<u>Macoma niger</u>	(Gray)	518004
Class Cephalopoda		
Order Octopoda		
Family Octopodidae		
<u>Octopus</u> sp.	Lamarck 1798	538240
Phylum Arthropoda		
Subphylum Chelicerata		
Class Arachnida		
Order Acari		330000
Family Halicaridae		
<u>Halacarus basteri</u> <u>basteri</u>	(Johnston)	333401
Family Hydrozetidae		

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Hydrozetes</u> sp.	Berlese 1902	333410
Family Pionidae		
<u>Piona exilis</u>	(Wolcott 1902)	333441
<u>Tiphys</u> sp.	Koch 1836	333450
Family Unionicolidae		
<u>Neumania kodiakica</u>	Neuman 1880	333431
<u>Unionicola</u> sp.	Haldeman 1842	333460
<u>Unionicola crassipes laurentia</u>	(Crowell & Davids)	333461
Class Pycnogonida		
Family Nymphonidae		
<u>Nymphon grossipes</u>	Fabricius 1780	343601
Family Tanastylidae		
		343770
Subphylum Crustacea		650000
Class Branchiopoda		
Order Diplostraca		
Suborder Cladocera		370000
Family Bosminidae		
<u>Bosmina</u> sp.	Baird 1845	375100
Family Daphnidae		
<u>Daphnia</u> sp.	Muller 1785	375110
<u>Daphnia longispina</u>	(Muller 1785)	375112
<u>Daphnia</u> cf. <u>pulex</u>	Richard 1896	375111
Family Podonidae		
<u>Podon</u> sp.	Lilljeborg 1853	375120
<u>Podon leuckarti</u>	G.O. Sars 1826	375121
Class Ostracoda		350000
Order Myodocopa		353700
Family Halocyprididae		353950
<u>Conchoecia</u> sp.	Dana 1849	353711
<u>Conchoecia borealis maxima</u>	Brady & Norman 1896	353712
<u>Conchoecia elegans</u>	G.O. Sars 1865	353713
<u>Conchoecia obtusata</u>	G.O. Sars 1865	353714
Order Podocopa		353850
Family Bythocytherididae		353970
Family Cypridae		353980
Family Cytherettidae		353870
Family Cytheridae		353860
<u>Hemicythere</u> sp.	Sars 1925	353891
Family Cytherideidae		353880
<u>Paracyprideis</u> sp.	Klie 1929	353931
Family Hemicytheridae		353890
Family Heterocyprideidae		353881
Family Limnocytheridae		353900
Family Macrocypididae		353960
Family Orthonotacythere		353940
Family Progonocytheridae		353910
Family Trachyleberididae		353920
Order Tanaidacea		400000
Family Paratanaidae		
<u>Leptognathia</u> sp.	G.O. Sars 1882	405550
<u>Leptognathia gracilis</u>	(Kroyer 1842)	405552
Class Copepoda		360000
Order Calanoida		365010
Family Acartiidae		
<u>Acartia</u> sp.	Dana 1846	364100
<u>Acartia bifilosa</u>	(Giesbrecht 1881)	364103
<u>Acartia clausi</u>	Giesbrecht 1889	364101
<u>Acartia longiremis</u>	(Lilljeborg 1835)	364102
Family Aetideidae		364560
<u>Aetideus armatus</u>	(Boeck 1872)	364561
<u>Aetideus pacificus</u>	Brodskii 1950	365091
<u>Chiridius obtusifrons</u>	G.O. Sars 1903	364121
<u>Gaidius tenuispinus</u>	(G.O. Sars 1900)	364241

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Jaschnovia (=Derjuginia) tolli</u>	(Linko 1913)	364471
<u>Pseudaetidium armatus</u>	(Boeck 1872)	365101
Family Augaptilidae		
<u>Haloptilus acutifrons</u>	(Giesbrecht 1892)	364521
Family Bathypontidae		
<u>Temorites sp.</u>	G.O. Sars 1900	364440
Family Calanidae		
<u>Calanus sp.</u>	Leach 1846	364110
<u>Calanus cristatus</u>	Kroyer 1848	364111
<u>Calanus glacialis</u>	Jaschnov 1955	364113
<u>Calanus hyperboreus</u>	Kroyer 1838	364114
<u>Neocalanus sp.</u>	G.O. Sars 1925	364490
<u>Neocalanus cristatus</u>	(Kroyer 1848)	364491
<u>Temora longicornis</u>	(Muller 1785)	364461
Family Centropagidae		
<u>Centropages abdominalis</u>	Sato 1913	364581
<u>Limnocalanus sp.</u>	G.O. Sars 1862	364280
<u>Limnocalanus johanseni</u>	Marsh 1920	364282
<u>Limnocalanus macrurus</u>	G.O. Sars 1862	364281
Family Diaptomidae		
<u>Diaptomus sp.</u>	Westwood 1836	364170
<u>Diaptomus ashlandi</u>	Marsh 1920	364173
<u>Diaptomus nevadensis</u>	Light 1938	364174
<u>Diaptomus oregonensis</u>	Lilljeborg 1889	364175
<u>Diaptomus sicilis</u>	Forbes 1882	364171
Family Eucalanidae		
<u>Eucalanus sp.</u>	Dana 1852	364210
<u>Eucalanus bungii bungii</u>	Johnson 1938	364211
Family Euchaetidae		
<u>Euchaeta sp.</u>	Phillippi 1843	364220
<u>Euchaeta glacialis</u>	Hansen 1886	364221
Family Heterorhabdus		
<u>Heterorhabdus norvegicus</u>	(Boeck 1872)	364271
Family Metridiidae		
<u>Metridia longa</u>	(Lubbock 1854)	364301
Family Spinocalanidae		
<u>Mimocalanus sp.</u>	Farran 1908	364500
<u>Spinocalanus longicornis</u>	G.O. Sars 1900	364421
<u>Spinocalanus magnus</u>	Wolfender 1904	364422
Order Cyclopoidea		365020
Family Cyclopidae		
<u>Cyclopina sp.</u>	Claus 1863	364140
<u>Cyclops sp.</u>	Muller 1776	364130
<u>Cyclops bicolor</u>	G.O. Sars 1863	364133
<u>Cyclops bicuspidatus</u>	Claus 1857	364132
<u>Cyclops vernalis</u>	Fischer 1853	364131
<u>Cyclops sp. vernalis</u>		364134
<u>Mesocyclops edax</u>	(Forbes 1897)	365081
Family Oithonidae		
<u>Oithona similis</u>	Claus 1866	364351
Family Pseudocalanidae		
<u>Drepanopus bungei</u>	G.O. Sars 1898	364181
<u>Microcalanus sp.</u>	G.O. Sars 1900	364310
<u>Microcalanus pygmaeus</u>	(G.O. Sars 1900)	364311
<u>Pseudocalanus sp.</u>	Boeck 1872	364390
<u>Pseudocalanus minutus</u>	(Kroyer 1849)	364392
Family Scolecithricidae		
<u>Scaphocalanus magnus</u>	(Scott 1893)	364402
<u>Scolecithricella minor</u>	(Brady 1883)	364411
Family Temoridae		
<u>Epischura sp.</u>	Forbes 1882	364200
<u>Epischura lacustris</u>	Forbes 1882	364201
<u>Epischura nevadensis</u>	Lilljeborg 1889	364202

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Eurytemora</u> sp.	Giesbrecht 1881	364230
<u>Eurytemora americana</u>	Williams 1906	364236
<u>Eurytemora canadensis</u>	Marsh 1920	364235
<u>Eurytemora composita</u>	Keiser 1929	364239
<u>Eurytemora herdmanni</u>	Thompson & Scott 1897	364231
<u>Eurytemora hirundoides</u>	Nordquist 1888	364238
<u>Eurytemora raboti</u>	Richard 1897	364232
<u>Eurytemora richingsi</u>	Heron & Damkaer 1976	364233
<u>Heterocope</u> sp.	G.O. Sars 1863	364260
<u>Heterocope septemcarinata</u>		364262
<u>Heterocope septentrionalis</u>	Juday & Matkowski 1915	364261
Order Harpacticoida		365030
Family Cletodidae		
<u>Cletocampus</u> sp.	Schmankewitsch 1875	364550
Family Diosaccidae		
<u>Stenhelia (=Delavalia)</u> sp.	Boeck 1864	364540
Family Ectinosomidae		364570
<u>Microsetella norvegica</u>	(Boeck 1864)	364321
<u>Microsetella rosea</u>	(Dana 1848)	364322
Family Harpacticidae		
<u>Harpacticus</u> sp.	Milne-Edwards 1838	364250
<u>Harpacticus unirewis</u>	Kroyer 1842	364252
<u>Zaus</u> sp.	Goodsir 1845	364510
Family Idyidae		
<u>Thisbe</u> sp.	(Lilljeborg 1853)	364450
<u>Thisbe furcata</u>	(Baird 1837)	364451
Family Laophontidae		
<u>Laophonte</u> sp.		365050
Family Thalestridae		
<u>Dactylopodia</u> sp.	Lang 1948	364530
Order Poecilostomatoidea		
Family Oncaeeidae		
<u>Oncaea borealis</u>	G.O. Sars 1918	364361
<u>Oncaea minuta</u>	Giesbrecht 1892	364362
Class Cirripedia		380000
Order Thoracica		
Family Balanidae		
<u>Balanus</u> sp.	de Costa 1778	385300
<u>Semibalanus balanoides</u>	Linnaeus	385301
Class Malacostraca		
Order Amphipoda		430000
Family Ampeliscidae		
<u>Ampelisca macrocephala</u>	Lilljeborg 1852	436172
<u>Byblis gaimardi</u>	(Kroyer 1846)	436251
Family Atylidae		
<u>Atylus carinatus</u>	(Fabricius 1793)	436221
Family Calliopiidae		436800
Family Corophiidae		
<u>Erichthonius</u> sp.	Milne-Edwards 1830	436310
<u>Lembos</u> sp.	Bate 1857	436430
<u>Lembos (=Arctolembos) arcticus</u>	(H.J. Hansen 1886)	436431
<u>Lembos (=Arctolembos) borealis</u>	Myers 1976	436432
<u>Protomedea fasciata</u>	Kroyer 1842	436611
Family Eusiridae		
<u>Apherusa</u> sp.	Walker 1891	436190
<u>Apherusa glacialis</u>	(Hansen 1887)	436191
<u>Apherusa megalops</u>	G.O. Sars 1882	436192
<u>Haliragoides inermis</u>	G.O. Sars 1882	436741
<u>Rhachotropis aculeata</u>	Lepechin 1780	436622
<u>Rhachotropis oculata</u>	Hansen 1887	436621
<u>Rhachotropis tumida</u>	G.O. Sars 1895	436623
Family Gammaridae		
<u>Ceradocus torelli</u>	(Goes 1865)	436271

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Gammaracanthus loricatus</u>	(Sabine 1821)	436331
<u>Gammarus</u> sp.	Fabricius 1775	436350
<u>Gammarus setosus</u>	Dementieva 1931	436352
<u>Gammarus wilkitzkii</u>	Birula 1897	436353
<u>Harpinia serrata</u>	G.O. Sars 1895	436391
<u>Weyprechtia heuglini</u>	(Bucholz 1874)	436701
Family Hyperidae		
<u>Hyperia</u> sp.	Latreille 1823	436410
<u>Hyperia galba</u>	(Montagu 1813)	436411
<u>Hyperia medusarum</u>	(Muller 1776)	436412
Hyperidae sp.		436730
<u>Hyperoche medusarum</u>	(Muller 1776)	436711
<u>Parathemisto</u> sp.	Boeck 1870	436530
<u>Parathemisto abyssorum</u>	Boeck 1870	436531
<u>Parathemisto libellula</u>	(Lichtenstein 1822)	436532
Family Ischyroceridae		
<u>Ischyrocerus</u> sp.	Kroyer 1838	436420
<u>Ischyrocerus commensalis</u>	Chevreaux 1900	436421
<u>Ischyrocerus latipes</u>	Kroyer 1838	436422
Family Lysianassidae		436780
<u>Anonyx</u> sp.	(Kroyer 1838)	436180
<u>Anonyx laticoxae</u>	Gurjanova 1962	436181
<u>Anonyx nugax</u>	(Phipps 1774)	436183
<u>Boeckosimus</u> sp.	(Barnard 1969)	436240
<u>Boeckosimus affinis</u>	(Hansen 1887)	436241
<u>Onisimus</u> sp.	Boeck 1871	436500
<u>Onisimus glacialis</u>	G.O. Sars 1900	436501
<u>Onisimus littoralis</u>	(Kroyer 1845)	436502
<u>Onisimus nanseni</u>	G.O. Sars 1900	436503
<u>Orchomene</u> sp.	Boeck 1871	436660
<u>Orchomene minuta</u>	Kroyer 1846	436662
<u>Orchomene pinguis</u>	(Boeck 1861)	436661
<u>Socarnes bidenticulatus</u>	(Bate 1858)	436771
Family Melitidae		
<u>Melita dentata</u>	(Kroyer 1842)	436441
<u>Melita formosa</u>	J. Murdoch 1885	436442
Family Oedicerotidae		
<u>Acanthostephea</u> sp.	Boeck 1871	436150
<u>Acanthostephea behringiensis</u>	(Lockington 1877)	436151
<u>Acanthostephea malmgreni</u>	(Goes 1886)	436152
<u>Aceroides</u> sp.	G.O. Sars 1895	436160
<u>Aceroides latipes</u>	G.O. Sars 1895	436161
<u>Arrhis phyllonyx</u>	M. Sars 1858	436211
<u>Monoculodes</u> sp.	Stimpson 1853	436470
<u>Monoculodes borealis</u>	Boeck 1871	436472
<u>Monoculodes packardii</u>	Boeck 1871	436473
<u>Oediceros</u> sp.	Kroyer 1842	436690
<u>Oediceros saginatus</u>	Kroyer 1842	436691
<u>Paroediceros</u> sp.	G.O. Sars 1892	436550
<u>Paroediceros lynceus</u>	(M. Sars 1858)	436551
<u>Paroediceros propinquus</u>	(M. Sars 1858)	436552
Family Paramphithoidae		
<u>Paramphithoe polycantha bruggeni</u>	Gurjanova 1951	436521
Family Phoxocephalidae		
<u>Paraphoxus oculatus</u>	G.O. Sars 1879	436511
Family Pleustidae		
<u>Neopleustes eucanthus</u>	(G.O. Sars 1876)	436491
<u>Pleustes</u> sp.	Spence Bate 1858	436580
Family Podoceridae		
<u>Dyopedos porrectus</u>	Bate 1857	436301
<u>Podocerus falcatus</u>	Bate 1857	436791
Family Pontoporeiidae		
<u>Pontoporeia</u> sp.	Kroyer 1842	436590

Table 2. List of scientific names of all organisms identified under MOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Pontoporeia affinis</u>	Lindstrom 1855	436591
<u>Pontoporeia femorata</u>	Kroyer 1842	436592
Family Stegocephalidae		
<u>Andaniella pectinata</u>	G.O. Sars 1895	436681
<u>Stegocephalus inflatus</u>	Kroyer 1842	436761
Family Stenothoidae		
<u>Metopa</u> sp.	Boeck 1871	436450
<u>Metopa longirama</u>	Dunbar 1942	436452
Family Synopiidae		
<u>Syrrhoë crenulata</u>	Goes 1865	436671
Order Cumacea		390000
Family Diastylidae		
<u>Brachydiastylis nimia</u>	Hansen 1920	395352
<u>Diastylis</u> sp.	Say 1818	395370
<u>Diastylis edwardsi</u>	(Kroyer 1841)	395372
<u>Diastylis goodsiri</u>	(Bell 1855)	395373
<u>Diastylis lepechini</u>	Zimmer 1926	395378
<u>Diastylis rathkei</u>	(Kroyer 1841)	395375
<u>Diastylis spinulosa</u>	Heller 1875	395379
<u>Leptostylis</u> sp.	G.O. Sars 1869	395410
<u>Leptostylis longimana</u>	G.O. Sars 1864	395411
Family Leuconidae		
<u>Eudorella</u> sp. near <u>hirsuta</u>	G.O. Sars 1871	395384
<u>Leucon</u> sp.	Kroyer 1841	395400
<u>Leucon fulvus</u>	G.O. Sars 1865	395402
<u>Leucon nasica</u>	(Kroyer 1841)	395403
Family Pseudocumidae		
<u>Petalosarsia declivis</u>	G.O. Sars 1865	395431
<u>Pseudocuma</u> sp.	G.O. Sars 1864	395420
<u>Pseudocuma longicornis</u>	(Spence Bate 1858)	395422
Order Decapoda		450000
Family Crangonidae		
<u>Argis</u> sp.	Kroyer 1842	457050
<u>Argis dentata</u>	(Rathbun 1902)	457051
<u>Sabinea septemcarinata</u>	(Sabine 1824)	457081
Family Hippolytidae		457120
<u>Eualus</u> sp.	Thalwitzer 1892	457060
<u>Eualus gaimardii</u>	(Milne-Edwards 1837)	457061
<u>Lebbeus</u> sp.	White 1847	457100
<u>Lebbeus polaris</u>	(Sabine 1821)	457101
<u>Spirontocaris</u> sp.	Bate 1888	457090
<u>Spirontocaris phippsi</u>	(Kroyer 1841)	457091
Family Majidae		
<u>Hyas</u> sp.	Leach 1815	457110
Family Paguridae		457130
Order Euphausiacea		440000
Family Euphausiidae		
<u>Thysanoessa</u> sp.	Brandt 1851	446950
<u>Thysanoessa inermis</u>	(Kroyer 1846)	446951
<u>Thysanoessa raschii</u>	(M. Sars 1864)	446953
Order Isopoda		420000
Suborder Asellota		425880
Family Desmosomatidae		
<u>Desmosoma lineare</u>	G.O. Sars 1864	425751
<u>Eugerdia glapiceps</u>	G.O. Sars 1864	425761
Family Eurycoptidae		
<u>Munnopsurus giganteus</u>	(G.O. Sars 1877)	425841
Family Munnopsidae		
<u>Munnopsis</u> sp.	M. Sars 1897	425820
<u>Munnopsis typica</u>	M. Sars 1860	425821
Suborder Epicaridea		
Family Bopyridae		
<u>Phryxus abdominalis</u>	(Kroyer 1841)	425861

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Family Dajidae		
<u>Dajus</u> sp.	Kroyer 1842	425850
<u>Dajus mysidis</u>	Kroyer 1849	425851
Suborder Valvifera		
Family Idoteidae		
<u>Mesidotea</u> sp.	Richardson 1905	425810
<u>Mesidotea entomon</u>	(Linnaeus 1767)	425811
<u>Mesidotea sabinii</u>	(Kroyer 1849)	425812
<u>Mesidotea sibirica</u>	(Birula 1896)	425813
<u>Synidotea bicuspidata</u>	(Owen 1839)	425831
Order Mysidacea		410000
Family Mysidae		
<u>Erythroops erythroptalmia</u>	(Goes 1864)	415681
<u>Mysis</u> sp.	Latreille 1803	415660
<u>Mysis litoralis</u>	(Banner 1948)	415661
<u>Mysis oculata</u>	(Fabricius 1780)	415662
<u>Mysis polaris</u>	Holmquist 1959	415664
<u>Mysis relicta</u>	Loven 1861	415663
<u>Neomysis</u> sp. (?)	Czerniavsky 1882	415700
<u>Neomysis intermedia</u>	(Czerniavsky 1882)	415702
<u>Parerythroops obesa</u>	G.O. Sars 1864	415691
Subphylum Uniramia		
Class Insecta		460000
Order Diptera		467260
Family Anthomyiidae		467272
Family Bibionidae		467261
Family Canaceidae		467265
Family Cecidomyiidae		467266
Family Ceratopogonidae		467262
Family Chironomidae		467250
Family Culicidae		467273
Family Dixidae		467270
Family Dolichopodidae		467278
Family Empididae		467267
Family Milichiidae		467276
Family Muscidae		467263
Family Mycetophilidae		467300
Family Orthoclaadiinae		467251
Family Pachyneuridae		467277
Family Phoridae		467268
Family Pipunculidae		467269
Family Psilidae		467279
Family Scatophagidae		467275
Family Sciaridae		467264
Family Simuliidae		467274
Family Tendipedidae		
<u>Lauterbornia</u> sp.		467290
Family Tipulidae		467271
Order Coleoptera		467330
Family Dytiscidae		467331
Family Carabidae		467332
Family Staphylinidae		467333
Order Ephemeroptera		467360
Family Baetidae		467361
Family Ephemeridae		467363
Family Heptageniidae		467362
Order Hemiptera		
Family Miridae		467411
Family Corixidae		467412
Order Homoptera		
Family Aphididae		467321
Family Psyllidae		467322
Family Cicadellidae		467323

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
Order Hymenoptera		467280
Superfamily Chalcidoidea		467281
Family Chalcididae		467315
Superfamily Cynipoidea		
Family Cynipidae		467311
Superfamily Ichneumonoidea		
Family Braconidae		467282
Family Ichneumonidae		467284
Superfamily Scolioidea		
Family Formicidae		467283
Order Lepidoptera		
Family Microlepidopterae		
Microlepidoptera sp.		467341
Family Gracilariidae		467342
Order Neuroptera		
Family Corydalidae		467351
Family Hemerobiidae		467391
Order Plecoptera		
Family Perlodidae		467371
Order Thysanoptera		
Family Thripidae		467420
Order Trichoptera		
Family Hydropsychidae		467382
Family Limnephilidae		467381
Phylum Sipuncula		200000
Phylum Echiura		210000
Phylum Tardigrada		
<u>Halobiotus arcturulus</u>	Crip and Kristensen 1983	470000 477451
Phylum Bryozoa (=Ectoprocta)		550000
Class Phylactolaemata		
Family Cristatellidae		
<u>Cristatella mucedo</u>	Cuvier 1798	558381
Class Stenolaemata		
Order Cyclostomata		
Family Crisiaidae		
<u>Crisia</u> sp.	Lamouroux 1816	558420
<u>Crisia denticulata</u>	(Lamarck 1836)	558421
Class Gymnolaemata		
Order Cheilostomata		
Family Alderiniidae		
<u>Tegella</u> sp.	Levinsen 1909	558410
<u>Tegella armifera</u>	(Hincks 1880)	558411
Family Escharellidae		
<u>Escharella kluzei</u>	Hayward 1979	558431
Family Flustridae		
<u>Flustra</u> sp.	Linnaeus 1767	558400
<u>Flustra serrulata</u>	Busk 1880	558401
Family Schizoporellidae		
<u>Schizoporella</u> sp.	Hincks 1877	558460
Family Scrupariidae		
<u>Eucretea</u> sp.	Lamouroux 1812	558390
<u>Eucretea loricata</u>	(Linnaeus 1758)	558391
Family Smittinidae		
<u>Cystisella</u> sp.	Canu & Bassler 1917	558470
Order Ctenostomata		
Family Alcyonidiidae		
<u>Alcyonidium</u> sp.	Lamouroux 1813	558350
<u>Alcyonidium disciforme</u>	Switt 1871	558351
<u>Alcyonidium enteromorpha</u>	Soule 1951	558354

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Alcyonidium pedunculatum</u>	Robertson 1902	558355
<u>Alcyonidium vermiculare</u>	Okada 1925	558356
Phylum Entoprocta		660000
Order Coloniales		
Family Barentsiidae		
<u>Barentsia</u> sp.	Hincks 1880	669230
<u>Barentsia garbonovi</u>	Kluge 1946	669231
Phylum Phoronida		560000
Phylum Brachiopoda		570000
Phylum Echinodermata		
Class Stelleroidea		600000
Order Forcipulatida		
Family Asteriidae		
<u>Urasterias linckii</u>	Muller & Troschel 1842	608851
Order Ophiurida		
Family Ophiuridae		
<u>Ophiocten</u> sp.	(Lutken 1855)	608800
<u>Ophiocten sericeum</u>	(Forbes 1852)	608801
<u>Stegophiura nodosa</u>	(Lutken 1855)	608841
Order Paxillosida		
Family Ganioplectinidae		
<u>Ctenodiscus crispatus</u>	(Retzius 1805)	608761
Order Phrynophiurida		
Family Gorgonocephalidae		
<u>Gorgonocephalus</u> sp.	Leach 1819	608770
<u>Gorgonocephalus arcticus</u>	Leach 1819	608771
Order Spinulosida		
Family Solasteridae		
<u>Solaster papposus</u>	Forbes 1839	608831
Class Echinoidea		620000
Class Holothuroidea		
Order Apodida		
Family Myriotrochidae		
<u>Myriotrochus rinki</u>	Steenstrup 1852	618951
Class Crinoidea		590000
Phylum Chaetognatha		580000
Class Sagittoidea		
Order Aphragmophora		
Family Sagittidae		
<u>Sagitta</u> sp.	Quay & Gaimard 1827	588660
<u>Sagitta elegans</u>	Verrill 1873	588661
<u>Sagitta maxima</u>	Conant 1896	588662
Order Phragmophora		
Family Eukrohniidae		
<u>Eukrohnia</u> sp.	Ritter-Zahony 1909	588650
<u>Eukrohnia hamata</u>	Mobius 1875	588651
Phylum Chordata		
Subphylum Urochordata		
Class Ascidiacea		630000
Order Aplousobranchia		
Family Didemnidae		639150
Order Stolidobranchia		
Family Pyuridae		
<u>Hartmeyeria</u> sp.	Ritter 1913	639140
Class Larvacea		640000
Family Fritillariidae		
<u>Fritillaria borealis</u>	Lohmann 1896	649211
Family Dikopleuridae		

Table 2. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3 (CONTINUED).

Scientific Name and Phylogenetic Relationship	Authority	Species Code
<u>Oikopleura</u> sp.	Mertens 1830	649200
<u>Oikopleura vanhoeffeni</u>	Lohmann 1896	649201
Subphylum Vertebrata		
Class Cephalaspidomorpha		
Order Petromyzontiformes		
Family Petromyzontidae		
<u>Lampetra japonica</u>	(Martens)	749241
Class Osteichthyes		
Order Clupeiformes		
Family Clupeidae		
<u>Clupea harengus pallasii</u>	Valenciennes 1847	759251
Order Gadiformes		
Family Gadidae		
<u>Arctogadus</u> sp.	Drjagin 1932	780000
<u>Boreogadus saida</u>	(Lepechin 1774)	789340
<u>Eleginus gracilis</u>	(Tilesius 1810)	789351
<u>Lota lota</u>	Linnaeus	789361
Order Gasterosteiformes		
Family Ammodytidae		
<u>Ammodytes</u> sp.	Linnaeus 1758	850000
Family Gasterosteidae		
<u>Pungitius pungitius</u>	(Linnaeus 1758)	859580
Order Perciformes		
Family Stichaeidae		
<u>Anisarchus medius</u>		799391
Family Zoarcidae		
<u>Lycodes</u> sp.	Reinhardt 1830	840000
Order Pleuronectiformes		
Family Pleuronectidae		
<u>Liopsetta glacialis</u>	(Pallas)	849531
<u>Platichthys stellatus</u>	(Pallas 1814)	839510
Order Salmoniformes		
Family Osmeridae		
<u>Osmerus mordax</u>	(Mitchill 1814)	860000
Family Salmonidae		
<u>Coregonus</u> sp.		869591
<u>Coregonus autumnalis</u>	Lacepede 1803	869601
<u>Coregonus clupeaformis</u>	(Pallas 1776)	
<u>Coregonus nasus</u>	(Mitchill 1818)	760000
<u>Coregonus sardinella</u>	(Pallas 1776)	769281
<u>Stenodus leucichthys</u>	Valenciennes 1848	779290
Order Scorpaeniformes		
Family Agonidae		
<u>Leptagonus decagonus</u>	(Bloch & Schneider 1801)	779291
<u>Aspidophoroides olriki</u>	Lutken 1876	779292
Family Cottidae		
<u>Gymnocanthus tricuspis</u>	(Reinhardt 1832)	779293
<u>Icelus</u> sp.	Kroyer 1845	779294
<u>Myoxocephalus quadricornis</u>	(Linnaeus 1758)	779311
<u>Triglops</u> sp.	Reinhardt 1832	
<u>Triglops nybelini</u>	Jensen 1944	
<u>Triglops pingelli</u>	Reinhardt 1831	
Family Cyclopteridae		
<u>Liparis</u> sp.	Scopoli 1777	809421
<u>Liparis fabricii</u>	Kroyer 1847	809430
<u>Liparis tunicatus</u>	Reinhardt 1837	809441
Unidentified fish larvae		809450
Unidentified fish egg		809451
Unidentified invertebrate		809452
Unidentified egg		829490
Plant/Vegetative matter		829491
Stones, pebbles		829493

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. Includes references used to order names according to phylogenetic relationship and to confirm spelling.

Species Code	Species	References
020001	Class Bacillariophyceae	Balech (1974); Cleve-Euler (1951-1955); Horner (1985); Hsiao (1983); Hustedt (1930a, 1930b); Lebour (1930); Round (1966); Schiller (1933, 1937); Swayda (1978)
021011	<u>Achnanthes taeniata</u>	Same as 020001
021021	<u>Amphiprora alata</u>	Same as 020001
021022	<u>Amphiprora gigantea</u> var. <u>septentrionalis</u>	Same as 020001
021023	<u>Amphiprora kjellmanii</u>	Same as 020001
021024	<u>Amphiprora kjellmanii</u> var. <u>striolata</u>	Same as 020001
021025	<u>Amphiprora paludosa</u>	Same as 020001
021026	<u>Amphiprora paludosa</u> var. <u>hyperborea</u>	Same as 020001
021027	<u>Amphiprora paludosa</u> var. <u>punctulata</u>	Same as 020001
021031	<u>Amphora</u> cf. <u>laevis laevissima</u>	Same as 020001
021032	<u>Amphora proteus</u>	Same as 020001
021041	<u>Caloneis brevis</u>	Same as 020001
021042	<u>Caloneis liber</u>	Same as 020001
021051	<u>Cerataulina pelagica</u>	Same as 020001
021061	<u>Chaetoceros ceratosporum</u>	Same as 020001
021062	<u>Chaetoceros gracilis</u>	Same as 020001
021063	<u>Chaetoceros septentrionalis</u>	Same as 020001
021071	<u>Cocconeis placentula</u> var. <u>euglypta</u>	Same as 020001
021072	<u>Cocconeis scutellum</u> var. <u>stauroneiformis</u>	Same as 020001
021080	<u>Coscinodiscus</u> sp.	Same as 020001
021081	<u>Coscinodiscus kuetzingii</u>	Same as 020001
021091	<u>Cyclotella comta</u>	Same as 020001
021101	<u>Cylindrotheca closterium</u>	Same as 020001
021111	<u>Diatoma elongatum</u>	Same as 020001
021121	<u>Diploneis incurvata</u>	Same as 020001
021122	<u>Diploneis litoralis</u> var. <u>clathrata</u>	Same as 020001
021123	<u>Diploneis vacillans</u>	Same as 020001
021131	<u>Eunotia lunaris</u>	Same as 020001
021141	<u>Fragilaria construens</u>	Same as 020001
021142	<u>Fragilaria islandica</u>	Same as 020001
021143	<u>Fragilaria pinnata</u>	Same as 020001
021144	<u>Fragilaria striatula</u>	Same as 020001
021150	<u>Gomphonema</u> sp.	Same as 020001
021151	<u>Gomphonema exiguum</u>	Same as 020001
021152	<u>Gomphonema kantschaticum</u>	Same as 020001
021161	<u>Gyrosigma</u> cf. <u>kuetzingii</u>	Same as 020001
021171	<u>Hantzschia weyprechtii</u>	Same as 020001
021181	<u>Licmophora gracilis</u> var. <u>anglica</u>	Same as 020001
021191	<u>Melosira arctica</u>	Same as 020001
021200	<u>Navicula</u> sp.	Same as 020001

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
021201	<u>Navicula</u> <u>algida</u>	Same as 020001
021202	<u>Navicula</u> <u>bahusiensis</u>	Same as 020001
021203	<u>Navicula</u> <u>directa</u>	Same as 020001
021204	<u>Navicula</u> <u>directa</u> var. <u>cuneata</u>	Same as 020001
021205	<u>Navicula</u> <u>gastrum</u>	Same as 020001
021206	<u>Navicula</u> <u>glacialis</u>	Same as 020001
021207	<u>Navicula</u> <u>gracilis</u>	Same as 020001
021208	<u>Navicula</u> <u>kariana</u>	Same as 020001
021209	<u>Navicula</u> <u>maculosa</u>	Same as 020001
021211	<u>Navicula</u> <u>marina</u>	Same as 020001
021212	<u>Navicula</u> <u>pelagica</u>	Same as 020001
021213	<u>Navicula</u> <u>pygmaea</u>	Same as 020001
021214	<u>Navicula</u> <u>rhynchocephala</u>	Same as 020001
021215	<u>Navicula</u> <u>salinarum</u>	Same as 020001
021216	<u>Navicula</u> <u>scopulorum</u>	Same as 020001
021217	<u>Navicula</u> <u>spicula</u>	Same as 020001
021218	<u>Navicula</u> <u>vanhoeffenii</u>	Same as 020001
021219	<u>Navicula</u> <u>vitrea</u>	Same as 020001
021221	<u>Neidium</u> <u>bisulcatum</u>	Same as 020001
021222	<u>Neidium</u> <u>bisulcatum</u> cf. var. <u>undulata</u>	Same as 020001
021230	<u>Nitzschia</u> sp.	Same as 020001
021231	<u>Nitzschia</u> <u>acicularis</u>	Same as 020001
021232	<u>Nitzschia</u> cf. <u>acuminata</u>	Same as 020001
021233	<u>Nitzschia</u> <u>angularis</u>	Same as 020001
021234	<u>Nitzschia</u> <u>closterium</u>	Same as 020001
021235	<u>Nitzschia</u> <u>cylindrus</u>	Same as 020001
021236	<u>Nitzschia</u> <u>frigida</u>	Same as 020001
021237	<u>Nitzschia</u> <u>laevissima</u>	Same as 020001
021238	<u>Nitzschia</u> <u>longissima</u>	Same as 020001
021239	<u>Nitzschia</u> cf. <u>palea</u>	Same as 020001
021241	<u>Nitzschia</u> <u>plana</u>	Same as 020001
021242	<u>Nitzschia</u> <u>polaris</u>	Same as 020001
021243	<u>Nitzschia</u> <u>seriata</u>	Same as 020001
021244	<u>Nitzschia</u> <u>sigma</u>	Same as 020001
021245	<u>Nitzschia</u> <u>sigmoidea</u>	Same as 020001
021246	<u>Nitzschia</u> cf. <u>thermalis</u>	Same as 020001
021251	<u>Pinnularia</u> cf. <u>gibba</u>	Same as 020001
021252	<u>Pinnularia</u> <u>quadratarea</u>	Same as 020001
021253	<u>Pinnularia</u> <u>quadratarea</u> var. <u>constricta</u>	Same as 020001
021254	<u>Pinnularia</u> <u>quadratarea</u> var. <u>minor</u>	Same as 020001
021261	<u>Pleurosigma</u> <u>angulatum</u>	Same as 020001
021262	<u>Pleurosigma</u> <u>angulatum</u> var. <u>strigosum</u>	Same as 020001

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
021263	<u>Pleurosigma clevei</u>	Same as 020001
021264	<u>Pleurosigma elongatum</u>	Same as 020001
021265	<u>Pleurosigma longum</u>	Same as 020001
021266	<u>Pleurosigma salinarum</u>	Same as 020001
021270	<u>Stauroneis</u> sp.	Same as 020001
021271	<u>Stauroneis</u> cf. <u>linearis</u>	Same as 020001
021272	<u>Stauroneis quadripedis</u>	Same as 020001
021273	<u>Stauroneis septentrionalis</u>	Same as 020001
021281	<u>Stephanodiscus astraea</u>	Same as 020001
021291	<u>Synedra acus</u>	Same as 020001
021292	<u>Synedra camtschatica</u>	Same as 020001
021293	<u>Synedra hyperborea</u>	Same as 020001
021294	<u>Synedra puichella</u>	Same as 020001
021295	<u>Synedra tabulata</u>	Same as 020001
021296	<u>Synedra tabulata</u> var. <u>fasciculata</u>	Same as 020001
021301	<u>Tabellaria flocculosa</u>	Same as 020001
021311	<u>Thalassionema nitzschioides</u>	Same as 020001
021321	<u>Thalassiosira baltica</u>	Same as 020001
021322	<u>Thalassiosira gravida</u>	Same as 020001
021323	<u>Thalassiosira lacustris</u>	Same as 020001
021324	<u>Thalassiosira nordenskiöldii</u>	Same as 020001
021331	<u>Thalassiothrix frauenfeldii</u>	Same as 020001
021332	<u>Thalassiothrix longissima</u>	Same as 020001
022010	<u>Amphidinium</u> sp.	Same as 020001
022020	<u>Gymnodinium</u> sp.	Same as 020001
022030	<u>Oxytoxum</u> sp.	Same as 020001
022041	<u>Peridiniella catenata</u>	Same as 020001
022051	<u>Prorocentrum rampi</u>	Same as 020001
022061	<u>Protoperidinium bipes</u>	Same as 020001
022062	<u>Protoperidinium globulus</u> var. <u>ovatum</u>	Same as 020001
022063	<u>Protoperidinium grenlandicum</u>	Same as 020001
022064	<u>Protoperidinium pellucidum</u>	Same as 020001
023010	<u>Carteria</u> sp.	Same as 020001
023020	<u>Chlamydomonas</u> sp.	Same as 020001
023030	<u>Chlorococcus</u> sp.	Same as 020001
023041	<u>Kirchneriella lunaris</u>	Same as 020001
023050	<u>Koliella</u> sp.	Same as 020001
023061	<u>Pyramidomonas grossi</u>	Same as 020001
023070	<u>Schroederia</u> sp.	Same as 020001
024010	<u>Chrysochromulina</u> sp.	Same as 020001
024020	<u>Chrysococcus</u> sp.	Same as 020001
024030	<u>Ochronomas</u> sp.	Same as 020001

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
025011	<u>Ebria tripartita</u>	Same as 020001
026010	<u>Cryptomonas</u> sp.	Same as 020001
027011	<u>Euqlena proxima</u>	Same as 020001
027012	<u>Euqlena viridis</u>	Same as 020001
040100	Order Tintinnida	Marshall (1969)
050000	Order Dinoflagellida	Barnes (1987)
060000	Order Foraminiferida	Barnes (1987)
060400	Family Elphidiidae	Lee, Hutner, and Bovee (1985)
060410	<u>Quinqueloculina</u> sp.	Lee, Hutner, and Bovee (1985)
060411	<u>Quinqueloculina seminulum</u>	Lee, Hutner, and Bovee (1985)
060420	<u>Dentalina</u> sp.	
060421	<u>Dentalina trujilloi</u>	
060431	<u>Eoquittulina anglica</u>	
060440	<u>Pseudopolymorphina</u> sp.	
060450	Suborder Rotallina	Lee, Hutner, and Bovee (1985)
060460	Suborder Textulariina	Lee, Hutner, and Bovee (1985)
060471	<u>Globigerina</u> sp.	Lee, Hutner, and Bovee (1985)
070610	Order Haplosclerida	Barnes (1987)
080000	Class Hydrozoa	Barnes (1987)
080700	<u>Aeginopsis</u> sp.	Shih (1977)
080701	<u>Aeginopsis laurentii</u>	Shih (1977)
080710	<u>Aglantha</u> sp.	Shih (1977)
080711	<u>Aglantha digitale</u>	Shih (1977)
080730	<u>Catablema</u> sp.	Russell (1955); Shih (1977)
080750	<u>Dimophyes</u> sp.	Shih (1977)
080751	<u>Dimophyes arctica</u>	Shih (1977)
080760	<u>Eumedusa</u> sp.	Shih (1977)
080761	<u>Eumedusa birulai</u>	Shih (1977)
080770	<u>Euphysa</u> sp.	Russell (1939); Shih (1977)
080771	<u>Euphysa flammea</u>	Russell (1939); Shih (1977)
080780	<u>Halecium</u> sp.	Kozloff (1987)
080790	<u>Halitholus</u> sp.	Russell (1955); Shih (1977)
080791	<u>Halitholus cirratus</u>	Russell (1955); Shih (1977)
080792	<u>Halitholus pauper</u>	Russell (1955); Shih (1977)
080800	<u>Melicertum</u> sp.	Shih (1977)
080801	<u>Melicertum octocostatum</u>	Shih (1977)
080820	<u>Obelia</u> sp.	Hand (1975); Shih (1977)
080821	<u>Obelia longissima</u>	Hand (1975); Shih (1977)
080830	<u>Sarsia</u> sp.	Russell (1950); Shih (1977)
080831	<u>Sarsia princeps</u>	Gosner (1971); Russell (1950); Shih (1977)
080833	<u>Sarsia tubulosa</u>	Russell (1950); Shih (1977)
080850	<u>Sertularia</u> sp.	Kozloff (1987)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
080851	<u>Sertularia plumosa</u>	Kozloff (1987)
080870	<u>Phialidium</u> sp.	Arai and Brinckman-Voss (1980); Shih (1977)
080871	<u>Phialidium languidum</u>	Arai and Brinckman-Voss (1980); Shih (1977)
080880	<u>Bougainvillia</u> sp.	Dunbar (1942); Russell (1950)
080882	<u>Bougainvillia yoldiaearcticae</u>	Dunbar (1942); Russell (1950)
080883	<u>Bougainvillia britannica</u>	Dunbar (1942); Russell (1950)
080890	<u>Cosmetira</u> sp.	Shih (1977)
080891	<u>Cosmetira pilosella</u>	Shih (1977)
080900	<u>Leuckartiara</u> sp.	Shih (1977)
080901	<u>Leuckartiara nobilis</u>	Shih (1977)
080921	<u>Rathkea octopunctata</u>	Arai and Brinckmann-Voss (1980)
080922	<u>Rathkea octocostatum</u>	Arai and Brinckmann-Voss (1980)
090010	<u>Cyanea</u> sp.	Shih (1977)
090011	<u>Cyanea capillata</u>	Shih (1977)
100000	Class Anthozoa	Barnes (1987)
101100	<u>Hormathia</u> sp.	Gosner (1971); Stephenson (1928)
101101	<u>Hormathia</u> sp. (? nodosa)	Gosner (1971); Stephenson (1928)
101111	<u>Gersemia rubiformis</u>	Gosner (1971); Hyman (1940); Minchin, Fowler and Bourne (1900)
101120	Family Edwardsiidae	Barnes (1987)
101130	<u>Cerianthus</u> sp.	Barnes (1987); Carlgren (1933); Verrill (1922)
101140	<u>Metridium</u> sp.	Stephenson (1928)
101150	<u>Actinia</u> sp.	Stephenson (1928)
120000	Phylum Ctenophora	Barnes (1987)
121200	<u>Beroe</u> sp.	Gosner (1971); Grainger and Grohe (1975)
121201	<u>Beroe cucumis</u>	Gosner (1971); Grainger and Grohe (1975)
121210	<u>Mnemiopsis</u> sp.	Gurjanova (1933)
121220	<u>Mertensia</u> sp.	Greve (1975)
121221	<u>Mertensia ovum</u>	Greve (1975)
121230	<u>Pleurobrachia</u> sp.	Hyman (1940)
121231	<u>Pleurobrachia pileus</u>	Hyman (1940)
121250	<u>Bolinopsis</u> sp.	Kozloff (1987)
121251	<u>Bolinopsis infundibulum</u>	Kozloff (1987)
130000	Phylum Platyhelminthes	Barnes (1987)
131400	<u>Brachyphallus</u> sp.	Davies (1968)
131401	<u>Brachyphallus crenatus</u>	Davies (1968)
131410	<u>Lecithaster</u> sp.	Davies (1968)
131420	Family Hemiruridae	Davies (1968)
131430	Class Cestoda	Barnes (1987)
140000	Phylum Nemertea	Barnes (1987)
141500	<u>Cerebratulus</u> sp.	Barnes (1987)
141520	<u>Hoploneurtea</u> sp.	Barnes (1987); Gosner (1971)
141530	<u>Heteroneurtea</u> sp.	Barnes (1987); Gosner (1971)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
150000	Phylum Rotifera	Barnes (1987)
151600	<u>Keratella</u> sp.	Berzins (1960a)
151601	<u>Keratella cochlearis</u>	Berzins (1960a)
151602	<u>Keratella quadrata</u>	Berzins (1960a)
151610	<u>Asplanchna</u> sp.	Berzins (1960b)
151620	<u>Conchilus</u> sp.	Steinberger (1979)
151630	<u>Kellicottia</u> sp.	Steinberger (1979)
151640	<u>Polyarthra</u> sp.	Berzins (1960b)
151660	<u>Filinia</u> sp.	Steinberger (1979)
170000	Phylum Kinorhyncha	Barnes (1987)
171700	<u>Pycnophyes</u> sp.	Kozloff (1987)
171701	<u>Pycnophyes canadensis</u>	Kozloff (1987)
180000	Phylum Nematoda	Barnes (1987)
190000	Phylum Priapulida	Barnes (1987)
191800	<u>Halicryptus</u> sp.	Hyman (1951)
191801	<u>Halicryptus spinulosus</u>	Hyman (1951)
191810	<u>Priapulus</u> sp.	Kozloff (1987)
191811	<u>Priapulus bicaudatus</u>	Kozloff (1987)
191812	<u>Priapulus caudatus</u>	Kozloff (1987)
200000	Phylum Sipuncula	Barnes (1987)
210000	Phylum Echiura	Barnes (1987)
230000	Class Polychaeta	Barnes (1987)
232071	<u>Ampharete acutifrons</u>	Kozloff (1987)
232073	<u>Ampharete vega</u>	Kozloff (1987)
232090	<u>Amphitrite</u> sp.	Kozloff (1987)
232091	<u>Amphitrite cirrata</u>	Kozloff (1987)
232100	<u>Antinoella</u> sp.	Kozloff (1987)
232101	<u>Antinoella badia</u>	Kozloff (1987)
232140	<u>Autolytus</u> sp.	Banse and Hobson (1974)
232141	<u>Autolytus cornutus</u>	Banse and Hobson (1974)
232142	<u>Autolytus alexandri</u>	Banse and Hobson (1974)
232143	<u>Autolytus prismaticus</u>	Banse and Hobson (1974)
232170	<u>Capitella</u> sp.	Kozloff (1987)
232210	Family Cirratulidae	Kozloff (1987)
232220	<u>Cossura</u> sp.	Kozloff (1987)
232222	<u>Cossura longocirrata</u>	Kozloff (1987)
232271	<u>Eteone longa</u>	Banse and Hobson (1974); Pettibone (1954)
232280	<u>Euchone</u> sp.	Kozloff (1987)
232281	<u>Euchone analis</u>	Kozloff (1987)
232282	<u>Euchone papillosa</u>	Kozloff (1987)
232302	<u>Exogone gemmifera</u>	Kozloff (1987)
232320	<u>Gattyana</u> sp.	Kozloff (1987)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
232321	<u>Gattyana cirrosa</u>	Kozloff (1987)
232341	<u>Harmothoe extenuata</u>	Barnes (1987); Gosner (1971); Pettibone (1954, 1963); Smith (1964)
232370	<u>Lanassa</u> sp.	Kozloff (1987)
232371	<u>Lanassa nordenskioldi</u>	Kozloff (1987)
232372	<u>Lanassa</u> sp. nr <u>L. venusta</u>	Kozloff (1987)
232381	<u>Laonice cirrata</u>	Hobson and Banse (1981)
232422	<u>Lumbrineris minuta</u>	Kozloff (1987)
232431	<u>Lysippe labiata</u>	Kozloff (1987)
232451	<u>Maldane sarsi</u>	Pettibone (1954)
232461	<u>Melaenis loveni</u>	Berkeley and Berkeley (1956; 1962); Curtis (1972); Pettibone (1954); Ushakov (1965)
232480	<u>Micronephthys</u> sp.	Rainer and Kaly (1988)
232481	<u>Micronephthys minuta</u>	Rainer and Kaly (1988)
232482	<u>Nephytys neotena</u>	Kozloff (1987)
232500	<u>Nephytys</u> sp.	Kozloff (1987)
232501	<u>Nephytys ciliata</u>	Kozloff (1987)
232510	<u>Nereimyra</u> sp.	Oug (1980)
232511	<u>Nereimyra aphroditoides</u>	Oug (1980)
232520	<u>Nereis</u> sp.	Gosner (1971); Grainger (1954); Pettibone (1963); Smith (1964)
232521	<u>Nereis pelagica</u>	Gosner (1971); Grainger (1954); Pettibone (1963); Smith (1964)
232570	<u>Pectinaria</u> sp.	Gosner (1971); Ushakov (1965)
232571	<u>Pectinaria hyperborea</u>	Gosner (1971); Ushakov (1965)
232590	<u>Pholoe</u> sp.	Smith (1964)
232592	<u>Pholoe longa</u>	Smith (1964)
232593	<u>Pholoe</u> cf. <u>longa</u>	Smith (1964)
232601	<u>Phylodoce groenlandica</u>	Berkeley and Berkely (1956); Gosner (1971); Grainger (1954); Smith (1964); Ushakov (1972)
232620	<u>Polydora</u> sp.	Kozloff (1987)
232624	<u>Polydora quadrilobata</u>	Fauchald (1977)
232625	<u>Polydora ciliata</u> complex	Kozloff (1987)
232661	<u>Prionospio cirrifera</u>	Kozloff (1987)
232710	<u>Schistomeringos</u> sp.	Kozloff (1987)
232711	<u>Schistomeringos caeca</u>	Kozloff (1987)
232721	<u>Scolecolepides arctius</u>	Smith (1964)
232730	<u>Scoloplos</u> sp. cf. <u>pugettens</u>	Kozloff (1987)
232781	<u>Terebellides stroemi</u>	Kozloff (1987)
232790	<u>Tharyx</u> sp.	Kozloff (1987)
232801	<u>Trochochaeta carica</u>	Pettibone (1976)
232820	<u>Odontosyllis</u> sp.	Kozloff (1987)
232830	<u>Sphaerodoropsis</u> sp.	Fauchald (1974)
232831	<u>Sphaerodoropsis minuta</u>	Fauchald (1974)
232841	<u>Lysilla loveni</u>	Kozloff (1987)
232851	<u>Sosane sulcata</u>	
232860	<u>Eteone</u> sp.	Banse and Hobson (1974); Pettibone (1954)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
232861	<u>Eteone spetzbergensis</u>	Banse and Hobson (1974); Pettibone (1954)
232862	<u>Eteone flava</u>	Banse and Hobson (1974); Pettibone (1954)
232871	<u>Ophelella cylindricaudatus</u>	Kozloff (1987)
232881	<u>Sinistrella verruca</u>	Kozloff (1987)
232890	<u>Fabricia</u> sp.	Fauchald (1977)
232901	<u>Nothria conchylega</u>	Fauchald (1982); George and Hartmann-Schroeder (1985); Gosner (1971)
232910	<u>Bylgides</u> sp.	Loshmann (1981)
232911	<u>Bylgides sarsi</u>	Loshmann (1981)
232940	<u>Pelagobia</u> sp.	Ushakov (1965)
310000	Class Oligochaeta	Barnes (1987)
313270	<u>Tubificoides</u> sp.	Kozloff (1987)
313271	<u>Tubificoides cuspidatus</u>	Kozloff (1987)
320000	Class Hirudinea	Barnes (1987)
323351	<u>Myzobdella lugubris</u>	Appy and Cone (1982)
330000	Order Acari	Barnes (1987)
333401	<u>Halacarus basteri basteri</u>	Piersig and Lohmann (1901)
333410	<u>Hydrozetes</u> sp.	Baker and Wighton (1984)
333431	<u>Neumania kodiakica</u>	Conroy (1968); Cook (1974)
333441	<u>Piona exilis</u>	Barnard (1975)
333450	<u>Tiphys</u> sp.	Conroy (1968); Cook (1974)
333460	<u>Unionicola</u> sp.	Barnard (1975); Bousfield (1973)
333461	<u>Unionicola crassipes laurentia</u>	Barnard (1975); Bousfield (1973)
343601	<u>Nymphon grossipes</u>	Gosner (1971); Hedgpeth (1963; 1975)
343770	Family Tanastylidae	Barnes (1987)
350000	Class Ostracoda	Barnes (1987)
353700	Order Myodocopa	Barnes (1987)
353711	<u>Conchoecia</u> sp.	Ikeda (1992)
353712	<u>Conchoecia borealis maxima</u>	Ikeda (1992)
353713	<u>Conchoecia elegans</u>	Ikeda (1992)
353714	<u>Conchoecia obtusata</u>	Ikeda (1992)
353850	Order Podocopa	Barnes (1987)
353860	Family Cytheridae	Bronstein (1947)
353870	Family Cytherettidae	Moore (1961)
353880	Family Cytherideidae	Moore (1961)
353881	Family Heterocypridae	Bronstein (1947)
353890	Family Hemicytheridae	Moore (1961)
353891	<u>Hemicythere</u> sp.	Bronstein (1947)
353900	Family Limnocytheridae	Bronstein (1947)
353910	Family Progonocytheridae	Moore (1961)
353920	Family Trachyleberidae	Moore (1961)
353931	<u>Paracyprideis</u> sp.	Bousfield (1960)
353940	Family Orthonotacythere	Bousfield (1960)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
353950	Family Halocyprididae	Moore (1961)
353960	Family Macrocyprididae	
353970	Family Bythocytherididae	
353980	Family Cypridae	Kozloff (1987)
360000	Class Copepoda	Barnes (1987)
364100	<u>Acartia</u> sp.	Farran (1948b); Roff (1978); Yashnov and Bronshtein (1948)
364101	<u>Acartia clausi</u>	Farran (1948b); Roff (1978); Yashnov and Bronshtein (1948)
364102	<u>Acartia longiremis</u>	Farran (1948b); Roff (1978); Yashnov and Bronshtein (1948)
364103	<u>Acartia bifilosa</u>	Farran (1948b); Roff (1978); Yashnov and Bronshtein (1948)
364110	<u>Calanus</u> sp.	Frost (1971); Grainger (1961)
364111	<u>Calanus cristatus</u>	Frost (1971); Grainger (1961)
364113	<u>Calanus glacialis</u>	Frost (1971); Grainger (1961)
364114	<u>Calanus hyperboreus</u>	Farran (1951a); Gosner (1971); Sars (1903)
364121	<u>Chiridius obtusifrons</u>	Brodskii (1950)
364130	<u>Cyclops</u> sp.	Roen (1957)
364131	<u>Cyclops vernalis</u>	Roen (1957)
364132	<u>Cyclops bicuspidatus</u>	Roen (1957)
364133	<u>Cyclops bicolor</u>	Roen (1957)
364134	<u>Cyclops</u> sp. <u>vernalis</u>	Roen (1957)
364140	<u>Cyclopina</u> sp.	Mohammed and Neuhof (1985)
364170	<u>Diaptomus</u> sp.	Roen (1957)
364171	<u>Diaptomus sicilis</u>	Roen (1957)
364173	<u>Diaptomus ashlandi</u>	Roen (1957)
364174	<u>Diaptomus nevadensis</u>	Roen (1957)
364175	<u>Diaptomus oregonensis</u>	Roen (1957)
364181	<u>Drepanopus bungei</u>	Brodskii (1950); Shih (1971)
364200	<u>Epischura</u> sp.	Smith (1964); Ward and Whipple (1966)
364201	<u>Epischura lacustris</u>	Smith (1964); Ward and Whipple (1966)
364202	<u>Epischura nevadensis</u>	Pennak (1953)
364210	<u>Eucalanus</u> sp.	Brodskii (1950); Gardner and Szabo (1982); Vidal (1971)
364211	<u>Eucalanus bungii bungii</u>	Brodskii (1950); Gardner and Szabo (1982); Vidal (1971)
364220	<u>Euchaeta</u> sp.	Sars (1903)
364221	<u>Euchaeta glacialis</u>	Brodskii (1950); Sars (1903); Vidal (1971)
364230	<u>Eurytemora</u> sp.	Ward and Whipple (1966)
364231	<u>Eurytemora herdmani</u>	Pennak (1953)
364232	<u>Eurytemora raboti</u>	Pennak (1953)
364233	<u>Eurytemora richingsi</u>	Pennak (1953)
364235	<u>Eurytemora canadensis</u>	Pennak (1953)
364236	<u>Eurytemora americana</u>	Pennak (1953)
364238	<u>Eurytemora hirundooides</u>	Pennak (1953)
364239	<u>Eurytemora composita</u>	Pennak (1953)
364241	<u>Gaidius tenuispinus</u>	Brodskii (1950); Roff (1978); Vidal (1971)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
364250	<u>Harpacticus</u> sp.	Gosner (1971); Sars (1911)
364252	<u>Harpacticus uniremis</u>	Gosner (1971); Sars (1911)
364260	<u>Heterocope</u> sp.	Sars (1903); Wilson and Yeatman (1966)
364261	<u>Heterocope septentrionalis</u>	Sars (1903); Wilson and Yeatman (1966)
364262	<u>Heterocope septemcarinata</u>	Sars (1903); Wilson and Yeatman (1966)
364271	<u>Heterorhabdus norvegicus</u>	Farran (1948d)
364280	<u>Limnocalanus</u> sp.	Gosner (1971); Sars (1918)
364281	<u>Limnocalanus macrurus</u>	Gosner (1971); Sars (1918)
364282	<u>Limnocalanus johanseni</u>	Gosner (1971); Sars (1918)
364301	<u>Metridia longa</u>	Farran (1948c)
364310	<u>Microcalanus</u> sp.	Brodskii (1950); Farran (1951b); Vidal (1971)
364311	<u>Microcalanus pygmaeus</u>	Brodskii (1950); Farran (1951b); Vidal (1971)
364321	<u>Microsetella norvegica</u>	Sars (1911)
364322	<u>Microsetella rosea</u>	Sars (1911)
364351	<u>Oithona similis</u>	Ward and Whipple (1966)
364361	<u>Oncaea borealis</u>	Heron, English, and Dambaer (1984)
364362	<u>Oncaea minuta</u>	Heron, English, and Dambaer (1984)
364390	<u>Pseudocalanus</u> sp.	Farran (1951b); Gosner (1971); Sars (1903)
364392	<u>Pseudocalanus minutus</u>	Brodskii (1950); Farran (1951b); Gardner and Szabo (1982); Roff (1978); Sars (1903)
364402	<u>Scaphocalanus magnus</u>	Brodskii (1950); Gardner and Szabo (1982)
364411	<u>Scolecithricella minor</u>	Brodskii (1950); Gardner and Szabo (1982); Roff (1978); Sars (1903); Vidal (1971)
364421	<u>Spinocalanus longicornis</u>	Farran (1951d)
364422	<u>Spinocalanus magnus</u>	Farran (1951d)
364440	<u>Temorites</u> sp.	
364450	<u>Thisbe</u> sp.	Sars (1911)
364451	<u>Thisbe furcata</u>	Sars (1911)
364461	<u>Temora longicornis</u>	Brady (1968)
364471	<u>Jaschnovia (=Derjuginia) tolli</u>	Brodskii (1950); Vidal (1971)
364490	<u>Neocalanus</u> sp.	Farran (1951a)
364491	<u>Neocalanus cristatus</u>	Farran (1951a)
364500	<u>Mimocalanus</u> sp.	Farran (1951a)
364510	<u>Zeus</u> sp.	Sars (1911)
364521	<u>Haloptilus acutifrons</u>	
364530	<u>Dactylopodia</u> sp.	
364540	<u>Stenhelia (=Delavalia) sp.</u>	Sars (1911)
364550	<u>Cletocamptus</u> sp.	Lang (1948)
364560	Family Aetideidae	Barnes (1987)
364561	<u>Aetideus armatus</u>	Vervoort (1952)
364570	Family Ectinosomidae	Sars (1911)
364581	<u>Centropages abdominalis</u>	Farran (1948a)
365010	Order Calanoidea	Barnes (1987)
365020	Order Cyclopoida	Barnes (1987)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
365030	Order Harpacticoida	Gosner (1971); Sars (1911)
365050	<u>Laophonte</u> sp.	Sars (1911)
365081	<u>Mesocyclops edax</u>	Pennak (1953); Yeatman (1966)
365091	<u>Aetideus pacificus</u>	Vervoort (1952)
365101	<u>Pseudaetideus armatus</u>	Vervoort (1952)
370000	Suborder Cladocera	Barnes (1987)
375100	<u>Bosmina</u> sp.	Dana (1852)
375110	<u>Daphnia</u> sp.	Dana (1852)
375111	<u>Daphnia</u> cf. <u>pulex</u>	Dana (1852)
375112	<u>Daphnia longispina</u>	Dana (1852)
375120	<u>Podon</u> sp.	Dana (1852)
375121	<u>Podon leuckartii</u>	Dana (1852)
380000	Class Cirripedia	Gosner (1971); Smith (1964)
385300	<u>Balanus</u> sp.	Gosner (1971); Smith (1964)
385301	<u>Semibalanus balanoides</u>	Wethey (1984)
390000	Order Cumacea	Barnes (1987)
395352	<u>Brachydiastylis nimia</u>	Jones (1957b)
395370	<u>Diastylis</u> sp.	Jones (1957b); Sars (1900); Yashnov (1948)
395372	<u>Diastylis edwardsi</u>	Jones (1957b); Sars (1900); Yashnov (1948)
395373	<u>Diastylis goodsiri</u>	Jones (1957b)
395375	<u>Diastylis rathkei</u>	Jones (1957b); Sars (1900); Yashnov (1948)
395378	<u>Diastylis lepechini</u>	Jones (1957b); Sars (1900); Yashnov (1948)
395379	<u>Diastylis spinulosa</u>	Jones (1957b); Sars (1900); Yashnov (1948)
395384	<u>Eudorella</u> sp. near <u>hirsuta</u>	Sars (1900)
395400	<u>Leucon</u> sp.	Hart (1939); Jones (1957b); Yashnov (1948)
395402	<u>Leucon fulvus</u>	Hart (1939)
395403	<u>Leucon nasica</u>	Given (1965); Hart (1939); Jones (1957a); Sars (1900); Wacasey (1975)
395410	<u>Leptostylis</u> sp.	Jones (1957b); Sars (1900); Yashnov (1948)
395411	<u>Leptostylis longimana</u>	Jones (1957b)
395420	<u>Pseudocuma</u> sp.	Jones (1957a)
395422	<u>Pseudocuma longicornis</u>	Jones (1957a)
395431	<u>Petalosarsia declivis</u>	Jones (1957); Sars (1900); Yashnov (1948)
400000	Order Tanaidacea	Barnes (1987)
405550	<u>Leptognathia</u> sp.	Gosner (1971); Mille (1975); Sars (1899)
405552	<u>Leptognathia gracilis</u>	Gosner (1971); Mille (1975); Sars (1899)
410000	Order Mysidacea	Keast and Lawrence (1990a)
415660	<u>Mysis</u> sp.	Keast and Lawrence (1990a)
415661	<u>Mysis litoralis</u>	Keast and Lawrence (1990a)
415662	<u>Mysis oculata</u>	Keast and Lawrence (1990a)
415663	<u>Mysis relicta</u>	Keast and Lawrence (1990a)
415664	<u>Mysis polaris</u>	Keast and Lawrence (1990a)
415681	<u>Erythroops erythropthalma</u>	Keast and Lawrence (1990a)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
415691	<u>Parerythrobs obesa</u>	Keast and Lawrence (1990b)
415700	<u>Neomysis sp. (?)</u>	Keast and Lawrence (1990b)
415702	<u>Neomysis intermedia</u>	Keast and Lawrence (1990b)
420000	Order Isopoda	Barnes (1987)
425751	<u>Desmosoma lineare</u>	Lawrence and Keast (1990)
425761	<u>Eugerdia glopiceps</u>	Svavarsson (1988)
425810	<u>Mesidotea sp.</u>	Lawrence and Keast (1990)
425811	<u>Mesidotea entomon</u>	Lawrence and Keast (1990)
425812	<u>Mesidotea sabini</u>	Lawrence and Keast (1990)
425813	<u>Mesidotea sibirica</u>	Lawrence and Keast (1990)
425820	<u>Munnopsis sp.</u>	Lawrence and Keast (1990)
425821	<u>Munnopsis typica</u>	Lawrence and Keast (1990)
425831	<u>Synidotea bicuspidata</u>	Lawrence and Keast (1990)
425841	<u>Munnopsurus giganteus</u>	Lawrence and Keast (1990)
425850	<u>Dajus sp.</u>	Lawrence and Keast (1990)
425851	<u>Dajus mysidis</u>	Lawrence and Keast (1990)
425861	<u>Phryxus abdominalis</u>	Sars (1900)
425880	Suborder Asellota	Kozloff (1987)
430000	Order Amphipoda	Barnes (1987)
436150	<u>Acanthostepheia sp.</u>	Keast and Lawrence (1990b)
436151	<u>Acanthostepheia behringiensis</u>	Keast and Lawrence (1990b)
436152	<u>Acanthostepheia malmgreni</u>	Keast and Lawrence (1990b)
436160	<u>Aceroides sp.</u>	Keast and Lawrence (1990b)
436161	<u>Aceroides latipes</u>	Keast and Lawrence (1990b)
436172	<u>Ampelisca macrocephala</u>	Barnard (1975); Dickinson (1982); Gosner (1971); Sars (1895); Stephensen (1942)
436180	<u>Anonyx sp.</u>	Keast and Lawrence (1990b)
436181	<u>Anonyx laticoxae</u>	Keast and Lawrence (1990b)
436183	<u>Anonyx nugax</u>	Keast and Lawrence (1990b)
436190	<u>Apherusa sp.</u>	Keast and Lawrence (1990b)
436191	<u>Apherusa glacialis</u>	Keast and Lawrence (1990b)
436192	<u>Apherusa megalops</u>	Keast and Lawrence (1990b)
436211	<u>Arrhis phyllonyx</u>	Stephensen (1942); Barnard (1969)
436221	<u>Atylus carinatus</u>	Barnard (1975); Mills (1959); Sars (1895); Shoemaker (1955); Stephensen (1942)
436240	<u>Boeckosimus sp.</u>	Keast and Lawrence (1990b)
436241	<u>Boeckosimus affinis</u>	Keast and Lawrence (1990b)
436251	<u>Byblis gaimardi</u>	Dickinson (1983); Gosner (1971); Sars (1895); Shoemaker (1955); Stephensen (1942)
436271	<u>Ceradocus torelli</u>	Bousfield (1973); Gurjanova (1951); Stephensen (1942)
436301	<u>Dyopedos porrectus</u>	Bousfield (1973); Gosner (1971); Sars (1895); Yashnov (1948)
436310	<u>Erichthonius sp.</u>	Kozloff (1987)
436331	<u>Gammaracanthus loricatus</u>	Keast and Lawrence (1990b)
436350	<u>Gammarus sp.</u>	Keast and Lawrence (1990b)
436352	<u>Gammarus setosus</u>	Keast and Lawrence (1990b)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
436353	<u>Gammarus wilkitzkii</u>	Keast and Lawrence (1990b)
436391	<u>Harpinia serrata</u>	Watling (1981)
436410	<u>Hyperia</u> sp.	Keast and Lawrence (1990b)
436411	<u>Hyperia galba</u>	Keast and Lawrence (1990b)
436412	<u>Hyperia medusarum</u>	Keast and Lawrence (1990b)
436420	<u>Ischyrocerus</u> sp.	Barnard (1975); Just (1980); Shoemaker (1955); Stephensen (1942)
436421	<u>Ischyrocerus commensalis</u>	Barnard (1975); Just (1980); Shoemaker (1955); Stephensen (1942)
436422	<u>Ischyrocerus latipes</u>	Barnard (1975); Just (1980); Shoemaker (1955); Stephensen (1942)
436430	<u>Lembos</u> sp.	Keast and Lawrence (1990b)
436431	<u>Lembos (=Arctolembos) arcticus</u>	Keast and Lawrence (1990b)
436432	<u>Lembos (=Arctolembos) borealis</u>	Keast and Lawrence (1990b)
436441	<u>Melita dentata</u>	Kozloff (1987)
436442	<u>Melita formosa</u>	Kozloff (1987)
436450	<u>Metopa</u> sp.	Keast and Lawrence (1990b)
436452	<u>Metopa longirama</u>	Dunbar (1942; 1954)
436470	<u>Monoculodes</u> sp.	Keast and Lawrence (1990b)
436472	<u>Monoculodes borealis</u>	Keast and Lawrence (1990b)
436473	<u>Monoculodes packardii</u>	Keast and Lawrence (1990b)
436491	<u>Neopleustes eucanthus</u>	Kozloff (1987)
436500	<u>Onisimus</u> sp.	Keast and Lawrence (1990b)
436501	<u>Onisimus glacialis</u>	Keast and Lawrence (1990b)
436502	<u>Onisimus littoralis</u>	Keast and Lawrence (1990b)
436503	<u>Onisimus nansenii</u>	Keast and Lawrence (1990b)
436511	<u>Paraphoxus oculatus</u>	Kozloff (1987)
436521	<u>Paraphoxus polycantha bruggeni</u>	Gurjanova (1951); Sars (1895)
436530	<u>Parathemisto</u> sp.	Keast and Lawrence (1990b)
436531	<u>Parathemisto abyssorum</u>	Keast and Lawrence (1990b)
436532	<u>Parathemisto libellula</u>	Keast and Lawrence (1990b)
436550	<u>Paroediceros</u> sp.	Keast and Lawrence (1990b)
436551	<u>Paroediceros lynceus</u>	Keast and Lawrence (1990b)
436552	<u>Paroediceros propinquus</u>	Keast and Lawrence (1990b)
436580	<u>Pleustes</u> sp.	Kozloff (1987)
436590	<u>Pontoporeia</u> sp.	Keast and Lawrence (1990b)
436591	<u>Pontoporeia affinis</u>	Keast and Lawrence (1990b)
436592	<u>Pontoporeia femorata</u>	Keast and Lawrence (1990b)
436611	<u>Protomedea fasciata</u>	Keast and Lawrence (1990b)
436621	<u>Rhachotropis oculata</u>	Bousfield (1973); Gurjanova (1951); Stephensen (1942)
436622	<u>Rhachotropis aculeata</u>	Bousfield (1973); Dunbar (1954); Gosner (1971); Sars (1895); Shoemaker (1955); Stephensen (1942)
436623	<u>Rhachotropis tumida</u>	Bousfield (1973); Dunbar (1954); Gosner (1971); Sars (1895); Shoemaker (1955); Stephensen (1942)
436660	<u>Orchomene</u> sp.	Keast and Lawrence (1990b)
436661	<u>Orchomene pinguis</u>	Bousfield (1973); Sars (1895)
436662	<u>Orchomene minuta</u>	Bousfield (1973); Sars (1895)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
436671	<u>Syrrhoë crenulata</u>	Keast and Lawrence (1990b)
436681	<u>Andaniella pectinata</u>	Barnard (1969); Sars (1895)
436690	<u>Oediceros</u> sp.	Keast and Lawrence (1990b)
436691	<u>Oediceros saginatus</u>	Keast and Lawrence (1990b)
436701	<u>Weyprechtia heuglini</u>	Keast and Lawrence (1990b)
436711	<u>Hyperoche medusarum</u>	Keast and Lawrence (1990b)
436730	<u>Hyperidae</u> sp.	Kozloff (1987)
436741	<u>Haliragoides inermis</u>	Keast and Lawrence (1990b)
436761	<u>Stegocephalus inflatus</u>	Moore and Rainbow (1992)
436771	<u>Socarnes bidenticulatus</u>	
436780	Family Lysianassidae	Keast and Lawrence (1990b)
436791	<u>Podocerus falcatus</u>	Kozloff (1987)
436800	Family Calliopidae	Barnes (1987)
440000	Order Euphausiacea	Keast and Lawrence (1990a)
446950	<u>Thysanoessa</u> sp.	Keast and Lawrence (1990a)
446951	<u>Thysanoessa inermis</u>	Keast and Lawrence (1990a)
446953	<u>Thysanoessa raschii</u>	Keast and Lawrence (1990a)
450000	Order Decapoda	Barnes (1987)
457050	<u>Argis</u> sp.	Keast and Lawrence (1990a)
457051	<u>Argis dentata</u>	Keast and Lawrence (1990a)
457060	<u>Eualus</u> sp.	Keast and Lawrence (1990a)
457061	<u>Eualus gaimardii</u>	Keast and Lawrence (1990a)
457081	<u>Sabinea septemcarinata</u>	Keast and Lawrence (1990a)
457090	<u>Spirontocaris</u> sp.	Keast and Lawrence (1990a)
457091	<u>Spirontocaris phippsi</u>	Keast and Lawrence (1990a)
457100	<u>Lebbeus</u> sp.	Keast and Lawrence (1990a)
457101	<u>Lebbeus polaris</u>	Keast and Lawrence (1990a)
457110	<u>Hyas</u> sp.	Keast and Lawrence (1990a)
457120	Family Hippolytidae	Keast and Lawrence (1990a)
457130	Family Paguridae	Keast and Lawrence (1990a)
460000	Class Insecta	Barnes (1987)
467250	Family Chironomidae	Oliver (1981)
467251	Family Orthocladinae	McAlpine (1981)
467260	Order Diptera	Barnes (1987)
467261	Family Bibionidae	Hardy (1987)
467262	Family Ceratopogonidae	Downes and Wirth (1981)
467263	Family Muscidae	McAlpine (1981)
467264	Family Sciaridae	Steffan (1981)
467265	Family Canaceidae	McAlpine (1981)
467266	Family Cecidomyiidae	Gagne (1981)
467267	Family Empididae	Steyskal and Knutson (1981)
467268	Family Phoridae	McAlpine (1981)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
467269	Family Pipunculidae	McAlpine (1981)
467270	Family Dixidae	McAlpine (1981)
467271	Family Tipulidae	McAlpine (1981)
467272	Family Anthomyiidae	McAlpine (1981)
467273	Family Culicidae	McAlpine (1981)
467274	Family Simuliidae	McAlpine (1981)
467275	Family Scatophagidae	McAlpine (1981)
467276	Family Milichidae	McAlpine (1981)
467277	Family Pachyneuridae	McAlpine (1981)
467278	Family Dolichopodidae	McAlpine (1981)
467279	Family Psilidae	McAlpine (1981)
467280	Order Hymenoptera	Barnes (1987)
467281	Superfamily Chalcidoidea	Borror and DeLong (1964)
467282	Family Braconidae	Borror and DeLong (1964)
467283	Family Formicidae	Borror and DeLong (1964)
467284	Family Ichneumonidae	Borror and DeLong (1964)
467290	<u>Lauterbornia</u> sp.	McAlpine (1981)
467300	Family Mycetophilidae	Vockeroth (1981)
467311	Family Cynipidae	Borror and DeLong (1964)
467315	Family Chalcididae	Borror and DeLong (1964)
467321	Family Aphididae	Borror and DeLong (1964)
467322	Family Psyllidae	Borror and DeLong (1964)
467323	Family Cicadellidae	Borror and DeLong (1964)
467330	Order Coleoptera	Barnes (1987)
467331	Family Dytiscidae	Doyen and Ulrich (1978); White (1983)
467332	Family Carabidae	Doyen and Ulrich (1978); White (1983)
467333	Family Staphylinidae	Doyen and Ulrich (1978); White (1983)
467341	<u>Microlepidoptera</u> sp.	Borror and DeLong (1964)
467342	Family Gracilaridae	Borror and DeLong (1964)
467351	Family Corydalidae	Borror and DeLong (1964)
467360	Order Ephemeroptera	Barnes (1987)
467361	Family Baetidae	Edmunds (1978)
467362	Family Heptageniidae	Edmunds (1978)
467363	Family Ephemeridae	Edmunds (1978)
467371	Family Perlodidae	Borror and DeLong (1964)
467380	Order Trichoptera	Barnes (1987)
467381	Family Limnephilidae	Borror and DeLong (1964)
467382	Family Hydropsychidae	Borror and DeLong (1964)
467391	Family Hemerobiidae	Borror and DeLong (1964)
467411	Family Miridae	Borror and DeLong (1964)
467412	Family Corixidae	Borror and DeLong (1964)
467420	Family Thripidae	Borror and DeLong (1964)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
470000	Phylum Tardigrada	Barnes (1987)
477451	<u>Halobiotus arcturulus</u>	
480000	Class Gastropoda	Barnes (1987)
487501	<u>Admete couthouyi</u>	Kozloff (1987)
487521	<u>Boreotrophon clathratus</u>	Gosner (1971); Keen and Coan (1974); Macpherson (1971)
487530	<u>Buccinum</u> sp.	Kozloff (1987)
487531	<u>Buccinum angulosum</u>	Kozloff (1987)
487532	<u>Buccinum glaciale</u>	Kozloff (1987)
487533	<u>Buccinum tenue</u>	Kozloff (1987)
487550	<u>Clione</u> sp.	Gosner (1971); Hyman (1967)
487551	<u>Clione limacina</u>	Gosner (1971); Hyman (1967)
487560	<u>Colus</u> sp.	Kozloff (1987)
487561	<u>Colus togatus</u>	Kozloff (1987)
487570	<u>Cylichna</u> sp.	Kozloff (1987)
487571	<u>Cylichna alba</u>	Kozloff (1987)
487572	<u>Cylichna occulata</u>	Kozloff (1987)
487581	<u>Dendronotus frondosus</u>	Gosner (1971); Hyman (1967); Nybakken (1975); Smith (1964)
487601	<u>Echinochila (=Cadlina) laevis</u>	Gosner (1971)
487611	<u>Haminoea solitaria</u>	Kozloff (1987)
487630	<u>Limacina</u> sp.	Gosner (1971); Hyman (1967); Smith (1964)
487631	<u>Limacina helicina</u>	Gosner (1971); Hyman (1967); Smith (1964)
487641	<u>Lunatia (=Polinices) pallida</u>	Gosner (1971); Macpherson (1971)
487651	<u>Margarites costalis</u>	Kozloff (1987)
487652	<u>Margarites olivaceus</u>	Kozloff (1987)
487671	<u>Natica clausa</u>	Gosner (1971); Macpherson (1971); Nybakken (1975)
487680	<u>Neptunea</u> sp.	Kozloff (1987)
487681	<u>Neptunea heros</u>	Kozloff (1987)
487690	<u>Oenopota</u> sp.	Macpherson (1971)
487694	<u>Oenopota incisula</u>	Macpherson (1971)
487697	<u>Oenopota turricula</u>	Macpherson (1971)
487698	<u>Oenopota</u> cf. <u>cinerea</u>	Macpherson (1971)
487710	<u>Retusa</u> sp.	Keen and Coan (1974)
487711	<u>Retusa obtusa</u> (=pertenulis)	Keen and Coan (1974)
487731	<u>Tachyrhynchus erosus</u>	Kozloff (1987)
487740	<u>Trichotropis</u> sp.	Kozloff (1987)
487741	<u>Trichotropis bicarinata</u>	Kozloff (1987)
487742	<u>Trichotropis borealis</u>	Kozloff (1987)
487750	<u>Volutopsius</u> sp.	Keen and Coan (1974)
487761	<u>Eubranchus pallidus</u>	Gosner (1971); Smith (1964)
487800	Order Nudibranchia	Barnes (1987)
510000	Class Bivalvia	Barnes (1987)
517911	<u>Astarte borealis</u>	Lubinsky (1980)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
517914	<u>Astarte warhami</u>	Lubinsky (1980)
517930	<u>Clinocardium</u> sp.	Gosner (1971)
517931	<u>Clinocardium ciliatum</u>	Gosner (1971)
517941	<u>Cyrtodaria kurriana</u>	Lubinsky (1980)
517951	<u>Dacrydium vitreum</u>	Vokes (1980)
517961	<u>Delectopecten groenlandicus</u>	Vokes (1980)
517971	<u>Hiatella arctica</u>	Bousfield (1960); Clarke (1974); Gosner (1971); Morris (1966); Nybakken (1975)
517991	<u>Lyonsia arenosa</u>	Gosner (1971); Morris (1966)
518000	<u>Macoma</u> sp.	Gosner (1971)
518001	<u>Macoma balthica</u>	Dunnill and Ellis (1969)
518002	<u>Macoma calcarea</u>	Gosner (1971)
518003	<u>Macoma moesta</u>	Gosner (1971)
518004	<u>Macoma niger</u>	Gosner (1971)
518006	<u>Macoma calcarea</u> c.f. <u>oblique</u>	Gosner (1971)
518020	<u>Musculus</u> sp.	Clarke (1974); Morris (1966)
518022	<u>Musculus discors</u> var. <u>laevigatus</u>	Clarke (1974); Morris (1966)
518023	<u>Musculus niger</u>	Clarke (1974); Morris (1966)
518032	<u>Mya arenaria</u>	Kozloff (1987)
518051	<u>Mytilus edulis</u>	Filatova (1948)
518061	<u>Nucula bellottii</u>	Kozloff (1987)
518072	<u>Nuculana pernula</u>	Kozloff (1987)
518110	<u>Portlandia</u> sp.	Kozloff (1987)
518111	<u>Portlandia arctica</u> var. <u>aestua</u>	Kozloff (1987)
518113	<u>Portlandia frigida</u>	Kozloff (1987)
518120	<u>Serripes</u> sp.	Clarke (1974); Gosner (1971); Lubinsky (1980); Morris (1966)
518121	<u>Serripes groenlandicus</u>	Clarke (1974); Gosner (1971); Lubinsky (1980); Morris (1966)
518191	<u>Barbatia (=Arca) glacialis</u>	Vokes (1980)
538240	<u>Octopus</u> sp.	Muus (1963)
550000	Phylum Bryozoa	Barnes (1987)
558350	<u>Alcyonidium</u> sp.	Kozloff (1987)
558351	<u>Alcyonidium disciforme</u>	Kozloff (1987)
558354	<u>Alcyonidium enteromorpha</u>	Kozloff (1987)
558355	<u>Alcyonidium pedunculatum</u>	Kozloff (1987)
558356	<u>Alcyonidium vermiculare</u>	Kozloff (1987)
558381	<u>Cristatella mucedo</u>	Madrid (1984)
558390	<u>Eucratea</u> sp.	Gosner (1971); Hulsemann and Soule (1962); Hyman (1955); Kluge (1962); Powell (1968); Robertson (1904)
558391	<u>Eucratea lorica</u>	Gosner (1971); Hulsemann and Soule (1962); Hyman (1955); Kluge (1962); Powell (1968); Robertson (1904)
558400	<u>Flustra</u> sp.	Hyman (1955); Kluge (1962); Powell (1968)
558401	<u>Flustra serrulata</u>	Hyman (1955); Kluge (1962); Powell (1968)
558410	<u>Iegella</u> sp.	Kozloff (1987)
558411	<u>Iegella armifera</u>	Kozloff (1987)
558420	<u>Crisia</u> sp.	Kozloff (1987)

Table 3. List of scientific names of all organisms identified under HOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
558421	<u>Crista denticulata</u>	Barnes (1987)
558431	<u>Escharella klugei</u>	
558460	<u>Schizoporella</u> sp.	Kozloff (1987)
558470	<u>Cystisella</u> sp.	
560000	Phylum Phoronida	Barnes (1987)
570000	Phylum Brachiopoda	Barnes (1987)
580000	Phylum Chaetognatha	Barnes (1987)
588650	<u>Eukrohnia</u> sp.	Kozloff (1987)
588651	<u>Eukrohnia hamata</u>	Kozloff (1987)
588660	<u>Sagitta</u> sp.	Kozloff (1987)
588661	<u>Sagitta elegans</u>	Kozloff (1987)
588662	<u>Sagitta maxima</u>	Kozloff (1987)
590000	Class Crinoidea	Barnes (1987)
600000	Class Stelleroidea	Barnes (1987)
608761	<u>Ctenodiscus crispatus</u>	Kozloff (1987)
608770	<u>Gorgonocephalus</u> sp.	Kozloff (1987)
608771	<u>Gorgonocephalus arcticus</u>	Kozloff (1987)
608800	<u>Ophiocten</u> sp.	Gosner (1971); Grainger (1955); Hyman (1955); Shorygin (1948)
608801	<u>Ophiocten sericeum</u>	Gosner (1971); Grainger (1955); Hyman (1955); Shorygin (1948)
608831	<u>Solaster papposus</u>	Gosner (1971); Grainger (1955); Hyman (1955); Shorygin (1948)
608841	<u>Stegophiura nodosa</u>	Grainger (1955); Hyman (1955); Shorygin (1948)
608851	<u>Urasterias linckii</u>	Grainger (1955); Hyman (1955); Shorygin (1948)
618951	<u>Myriotrochus rinki</u>	Hyman (1955); Shorygin (1948)
620000	Class Echinoidea	Barnes (1987)
630000	Class Ascidiacea	Barnes (1987)
639140	<u>Hartmeyeria</u> sp.	Kott (1985)
639150	Family Didemnidae	Barnes (1987)
640000	Class Larvacea	Barnes (1987)
649200	<u>Oikopleura</u> sp.	Alldrege (1977); Buckmann (1969); Gosner (1971); Leung (1972); Mahoney and Buggein (1983)
649201	<u>Oikopleura vanhoeffeni</u>	Alldrege (1977); Buckmann (1969); Gosner (1971); Leung (1972); Mahoney and Buggein (1983)
649211	<u>Fritillaria borealis</u>	Kozloff (1987)
650000	Subphylum Crustacea	Barnes (1987)
660000	Phylum Entoprocta	Barnes (1987)
669230	<u>Barentsia</u> sp.	Kozloff (1987)
669231	<u>Barentsia garbonovi</u>	Kozloff (1987)
749241	<u>Lampetra japonica</u>	McAllister, Legendre and Hunter (1987); Robins et al. (1980); Scott and Crossman (1973)
759251	<u>Clupea harengus pallasii</u>	Fahay (1983); McAllister, Legendre and Hunter (1987); McGowan and Berry (1984); Ratynski (1983); Robins et al. (1980)
760000	Family Osmeridae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
769281	<u>Osmerus mordax</u>	Hearne (1984); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Ratynski (1983); Robins et al. (1980)
779290	<u>Coregonus</u> sp.	McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)
779291	<u>Coregonus autumnalis</u>	Kendall and Behnke (1984); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)
779292	<u>Coregonus clupeiiformis</u>	Hinrichs (1979); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)

Table 3. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered numerically by species code. (CONTINUED)

Species Code	Species	References
779293	<u>Coregonus nasus</u>	Kendall and Behnke (1984); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)
779294	<u>Coregonus sardinella</u>	Kendall and Behnke (1984); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)
779311	<u>Stenodus leucichthys</u>	Hinrichs (1979); McAllister, Legendre and Hunter (1987); McPhail and Lindsey (1970); Robins et al. (1980)
780000	Family Gadidae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
789340	<u>Arctogadus</u> sp.	Dunn and Matarese (1984); Markle (1982); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
789351	<u>Boreogadus saida</u>	Dunn and Vinter (1984); Markle (1982); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
789361	<u>Eleginus gracilis</u>	Dunn and Matarese (1984); Markle (1982); McAllister, Legendre and Hunter (1987); Ratynski (1983); Robins et al. (1980)
789381	<u>Lota lota</u>	McPhail and Lindsey (1970); McAllister, Legendre and Hunter (1987); Robins et al. (1980); Scott and Crossman (1973)
799391	<u>Pungitius pungitius</u>	McPhail and Lindsey (1970); McAllister, Legendre and Hunter (1987); Robins et al. (1980); Scott and Crossman (1973)
800000	Family Cottidae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
809421	<u>Gymnancistrus tricuspsis</u>	Khan (1971); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
809430	<u>Icelus</u> sp.	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
809441	<u>Myoxocephalus quadricornis</u>	Khan (1971); McAllister, Legendre and Hunter (1987); Ratynski (1983); Robins et al. (1980); Washington et al. (1984)
809450	<u>Triglops</u> sp.	Andriyashev (1954); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
809451	<u>Triglops nybelini</u>	Andriyashev (1954); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
809452	<u>Triglops pingelli</u>	Andriyashev (1954); Khan (1971); McAllister, Legendre and Hunter (1987); Robins et al. (1980); Washington, Eschmeyer and Howe (1984); Washington et al. (1984)
819461	<u>Leptagonus decagonus</u>	Andriyashev (1954); Fahay (1983); McAllister, Legendre and Hunter (1987); Washington Eschmeyer and Howe (1984); Washington et al. (1984)
819471	<u>Aspidophoroides olriki</u>	Andriyashev (1954); Fahay (1983); McAllister, Legendre and Hunter (1987); Robins et al. (1980); Washington, Eschmeyer and Howe (1984); Washington et al. (1984)
829490	<u>Liparis</u> sp.	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
829491	<u>Liparis fabricii</u>	Able and McAllister (1980); Able, Markle and Fahay (1984); McAllister, Legendre and Hunter (1987)
829493	<u>Liparis tunicatus</u>	Able and McAllister (1980); Able, Markle and Fahay (1984); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
839510	<u>Lycodes</u> sp.	McAllister, Anderson and Hunter (1981); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
840000	Family Stichaeidae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
849531	<u>Anisarchus medius</u>	Andriyashev (1954); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
850000	Family Ammodytidae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
859580	<u>Ammodytes</u> sp.	Fahay (1983); McAllister, Legendre and Hunter (1987); Robins et al. (1980); Scott (1972a; 1972b); Stevens, Matarese and Watson (1984)
860000	Family Pleuronectidae	McAllister, Legendre and Hunter (1987); Robins et al. (1980)
869591	<u>Liopsetta glacialis</u>	Andriyashev (1954); Hensley and Ahlstrom (1984); McAllister, Legendre and Hunter (1987); Robins et al. (1980)
869601	<u>Platichthys stellatus</u>	Ahlstrom et al. (1984); Andriyashev (1954); Hensley and Ahlstrom (1984); McAllister, Legendre and Hunter (1987); Ratynski (1983); Robins et al. (1980)
870000	Unidentified fish larvae	
880000	Unidentified fish egg	
910000	Unidentified invertebrate	
920000	Unidentified egg	
930000	Plant/Vegetative matter	
940000	Stones, pebbles	

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, ordered alphabetically by species or higher taxonomic level names.

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Acanthostepheia behringiensis</u>	Arthropoda	Amphipoda (Order)	436151
<u>Acanthostepheia malmgreni</u>	Arthropoda	Amphipoda (Order)	436152
<u>Acanthostepheia sp.</u>	Arthropoda	Amphipoda (Order)	436150
<u>Acari (Order)</u>	Arthropoda	Acari (Order)	330000
<u>Acartia bifilosa</u>	Arthropoda	Copepoda (Class)	364103
<u>Acartia clausi</u>	Arthropoda	Copepoda (Class)	364101
<u>Acartia longiremis</u>	Arthropoda	Copepoda (Class)	364102
<u>Acartia sp.</u>	Arthropoda	Copepoda (Class)	364100
<u>Aceroides latipes</u>	Arthropoda	Amphipoda (Order)	436161
<u>Aceroides sp.</u>	Arthropoda	Amphipoda (Order)	436160
<u>Achnanthes taeniata</u>	Chrysophyta	Protista (Kingdom)	021011
<u>Actinia sp.</u>	Cnidaria	Anthozoa (Class)	101150
<u>Admete couthouyi</u>	Mollusca	Gastropoda (Class)	487501
<u>Aeginopsis laurentii</u>	Cnidaria	Hydrozoa (Class)	080701
<u>Aeginopsis sp.</u>	Cnidaria	Hydrozoa (Class)	080700
<u>Aetideidae (Family)</u>	Arthropoda	Copepoda (Class)	364560
<u>Aetideus armatus</u>	Arthropoda	Copepoda (Class)	364561
<u>Aetideus pacificus</u>	Arthropoda	Copepoda (Class)	365091
<u>Aglantha digitale</u>	Cnidaria	Hydrozoa (Class)	080711
<u>Aglantha sp.</u>	Cnidaria	Hydrozoa (Class)	080710
<u>Alcyonidium disciforme</u>	Bryozoa	Bryozoa (Phylum)	558351
<u>Alcyonidium enteromorpha</u>	Bryozoa	Bryozoa (Phylum)	558354
<u>Alcyonidium pedunculatum</u>	Bryozoa	Bryozoa (Phylum)	558355
<u>Alcyonidium sp.</u>	Bryozoa	Bryozoa (Phylum)	558350
<u>Alcyonidium vermiculare</u>	Bryozoa	Bryozoa (Phylum)	558356
<u>Ammodytes sp.</u>	Chordata	Ammodytidae (Family)	859580
<u>Ammodytidae (Family)</u>	Chordata	Ammodytidae (Family)	850000
<u>Ampelisca macrocephala</u>	Arthropoda	Amphipoda (Order)	436172
<u>Ampharete acutifrons</u>	Annelida	Polychaeta (Class)	232071
<u>Ampharete vega</u>	Annelida	Polychaeta (Class)	232073
<u>Amphidinium sp.</u>	Pyrrhophyta	Protista (Kingdom)	022010
<u>Amphipoda (Order)</u>	Arthropoda	Amphipoda (Order)	430000
<u>Amphiprora alata</u>	Chrysophyta	Protista (Kingdom)	021021
<u>Amphiprora gigantea var. septentrionalis</u>	Chrysophyta	Protista (Kingdom)	021022
<u>Amphiprora kjellmanii</u>	Chrysophyta	Protista (Kingdom)	021023
<u>Amphiprora kjellmanii var. striolata</u>	Chrysophyta	Protista (Kingdom)	021024
<u>Amphiprora paludosa</u>	Chrysophyta	Protista (Kingdom)	021025
<u>Amphiprora paludosa var. hyperborea</u>	Chrysophyta	Protista (Kingdom)	021026
<u>Amphiprora paludosa var. punctulata</u>	Chrysophyta	Protista (Kingdom)	021027
<u>Amphitrite cirrata</u>	Annelida	Polychaeta (Class)	232091
<u>Amphitrite sp.</u>	Annelida	Polychaeta (Class)	232090
<u>Amphora cf. laevis laevisissima</u>	Chrysophyta	Protista (Kingdom)	021031
<u>Amphora proteus</u>	Chrysophyta	Protista (Kingdom)	021032
<u>Andaniella pectinata</u>	Arthropoda	Amphipoda (Order)	436681
<u>Anisarchus medius</u>	Chordata	Stichaeidae (Family)	849531
<u>Anonyx laticoxae</u>	Arthropoda	Amphipoda (Order)	436181
<u>Anonyx nugax</u>	Arthropoda	Amphipoda (Order)	436183
<u>Anonyx sp.</u>	Arthropoda	Amphipoda (Order)	436180
<u>Anthomyiidae (Family)</u>	Arthropoda	Insecta (Class)	467272
<u>Anthozoa (Class)</u>	Cnidaria	Anthozoa (Class)	100000
<u>Antinoella badia</u>	Annelida	Polychaeta (Class)	232101
<u>Antinoella sp.</u>	Annelida	Polychaeta (Class)	232100
<u>Apherusa glacialis</u>	Arthropoda	Amphipoda (Order)	436191
<u>Apherusa megalops</u>	Arthropoda	Amphipoda (Order)	436192
<u>Apherusa sp.</u>	Arthropoda	Amphipoda (Order)	436190
<u>Aphididae (Family)</u>	Arthropoda	Insecta (Class)	467321
<u>Arctogadus sp.</u>	Chordata	Gadidae (Family)	789340
<u>Argis dentata</u>	Arthropoda	Decapoda (Order)	457051
<u>Argis sp.</u>	Arthropoda	Decapoda (Order)	457050
<u>Arrhis phyllonyx</u>	Arthropoda	Amphipoda (Order)	436211

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
Asciacea (Class)	Chordata	Asciacea (Class)	630000
Asellota (Suborder)	Arthropoda	Isopoda (Order)	425880
<u>Aspidophoroides olriki</u>	Chordata	Agonidae (Family)	819471
<u>Asplanchna</u> sp.	Rotifera	Rotifera (Phylum)	151610
<u>Astarte borealis</u>	Mollusca	Bivalvia (Class)	517911
<u>Astarte warhami</u>	Mollusca	Bivalvia (Class)	517914
<u>Atylus carinatus</u>	Arthropoda	Amphipoda (Order)	436221
<u>Autolytus alexandri</u>	Annelida	Polychaeta (Class)	232142
<u>Autolytus cornutus</u>	Annelida	Polychaeta (Class)	232141
<u>Autolytus prismaticus</u>	Annelida	Polychaeta (Class)	232143
<u>Autolytus</u> sp.	Annelida	Polychaeta (Class)	232140
Bacillariophyceae	Chrysophyta	Protista (Kingdom)	020001
Baetidae (Family)	Arthropoda	Insecta (Class)	467361
<u>Balanus</u> sp.	Arthropoda	Cirripedia (Class)	385300
<u>Barbatia</u> (=Arca) <u>glacialis</u>	Mollusca	Bivalvia (Class)	518191
<u>Barentsia garbonovi</u>	Entoprocta	Entoprocta (Phylum)	669231
<u>Barentsia</u> sp.	Entoprocta	Entoprocta (Phylum)	669230
<u>Beroe cucumis</u>	Ctenophora	Ctenophora (Phylum)	121201
<u>Beroe</u> sp.	Ctenophora	Ctenophora (Phylum)	121200
Bibonidae (Family)	Arthropoda	Insecta (Class)	467261
Bivalvia (Class)	Mollusca	Bivalvia (Class)	510000
<u>Boeckosimus affinis</u>	Arthropoda	Amphipoda (Order)	436241
<u>Boeckosimus</u> sp.	Arthropoda	Amphipoda (Order)	436240
<u>Bolinopsis infundibulum</u>	Ctenophora	Ctenophora (Phylum)	121251
<u>Bolinopsis</u> sp.	Ctenophora	Ctenophora (Phylum)	121250
<u>Boreogadus saida</u>	Chordata	Gadidae (Family)	789351
<u>Boreotrophon clathratus</u>	Mollusca	Gastropoda (Class)	487521
<u>Bosmina</u> sp.	Arthropoda	Cladocera (Suborder)	375100
<u>Bougainvillia britannica</u>	Cnidaria	Hydrozoa (Class)	080883
<u>Bougainvillia</u> sp.	Cnidaria	Hydrozoa (Class)	080880
<u>Bougainvillia yoldiae</u> arcticae	Cnidaria	Hydrozoa (Class)	080882
Brachiopoda (Phylum)		Brachiopoda (Phylum)	570000
<u>Brachydiastylis nimia</u>	Arthropoda	Cumacea (Order)	395352
<u>Brachyphallus crenatus</u>	Platyhelminthes	Platyhelminthes (Phylum)	131401
<u>Brachyphallus</u> sp.	Platyhelminthes	Platyhelminthes (Phylum)	131400
Braconidae (Family)	Arthropoda	Insecta (Class)	467282
Bryozoa (Phylum)		Bryozoa (Phylum)	550000
<u>Buccinum angulosum</u>	Mollusca	Gastropoda (Class)	487531
<u>Buccinum glaciale</u>	Mollusca	Gastropoda (Class)	487532
<u>Buccinum</u> sp.	Mollusca	Gastropoda (Class)	487530
<u>Buccinum tenue</u>	Mollusca	Gastropoda (Class)	487533
<u>Byblis gaimardi</u>	Arthropoda	Amphipoda (Order)	436251
<u>Bylgides sarsi</u>	Annelida	Polychaeta (Class)	232911
<u>Bylgides</u> sp.	Annelida	Polychaeta (Class)	232910
Bythocytherididae (Family)	Arthropoda	Ostracoda (Class)	353970
Calanoida (Order)	Arthropoda	Copepoda (Class)	365010
<u>Calanus cristatus</u>	Arthropoda	Copepoda (Class)	364111
<u>Calanus glacialis</u>	Arthropoda	Copepoda (Class)	364113
<u>Calanus hyperboreus</u>	Arthropoda	Copepoda (Class)	364114
<u>Calanus</u> sp.	Arthropoda	Copepoda (Class)	364110
Calliopidae (Family)	Arthropoda	Amphipoda (Order)	436800
<u>Caloneis brevis</u>	Chrysophyta	Protista (Kingdom)	021041
<u>Caloneis liber</u>	Chrysophyta	Protista (Kingdom)	021042
Canaceidae (Family)	Arthropoda	Insecta (Class)	467265
<u>Capitella</u> sp.	Annelida	Polychaeta (Class)	232170
Carabidae (Family)	Arthropoda	Insecta (Class)	467332
<u>Carteria</u> sp.	Chlorophyta	Protista (Kingdom)	023010
<u>Catablena</u> sp.	Cnidaria	Hydrozoa (Class)	080730
Cecidomyiidae (Family)	Arthropoda	Insecta (Class)	467266
<u>Centropages abdominalis</u>	Arthropoda	Copepoda (Class)	364581
<u>Ceradocus torelli</u>	Arthropoda	Amphipoda (Order)	436271
<u>Cerataulina pelagica</u>	Chrysophyta	Protista (Kingdom)	021051

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
Ceratopogonidae (Family)	Arthropoda	Insecta (Class)	467262
<u>Cerebratulus</u> sp.	Nemertea	Nemertea (Phylum)	141500
<u>Cerianthus</u> sp.	Cnidaria	Anthozoa (Class)	101130
Cestoda (Class)	Platyhelminthes	Platyhelminthes (Phylum)	131430
<u>Chaetoceros ceratosporum</u>	Chrysophyta	Protista (Kingdom)	021061
<u>Chaetoceros gracilis</u>	Chrysophyta	Protista (Kingdom)	021062
<u>Chaetoceros septentrionalis</u>	Chrysophyta	Protista (Kingdom)	021063
Chaetognatha (Phylum)		Chaetognatha (Phylum)	580000
Chalcididae (Family)	Arthropoda	Insecta (Class)	467315
Chalcidoidea (Superfamily)	Arthropoda	Insecta (Class)	467281
<u>Chiridius obtusifrons</u>	Arthropoda	Copepoda (Class)	364121
Chironomidae (Family)	Arthropoda	Insecta (Class)	467250
<u>Chlamydomonas</u> sp.	Chlorophyta	Protista (Kingdom)	023020
<u>Chlorococcus</u> sp.	Chlorophyta	Protista (Kingdom)	023030
<u>Chrysochromulina</u> sp.	Chrysophyta	Protista (Kingdom)	024010
<u>Chrysococcus</u> sp.	Chrysophyta	Protista (Kingdom)	024020
Cicadellidae (Family)	Arthropoda	Insecta (Class)	467323
Cirratulidae (Family)	Annelida	Polychaeta (Class)	232210
Cirripedia (Class)	Arthropoda	Cirripedia (Class)	380000
Cladocera (Suborder)	Arthropoda	Cladocera (Suborder)	370000
<u>Cletocampus</u> sp.	Arthropoda	Copepoda (Class)	364550
<u>Clinocardium ciliatum</u>	Mollusca	Bivalvia (Class)	517931
<u>Clinocardium</u> sp.	Mollusca	Bivalvia (Class)	517930
<u>Clione limacina</u>	Mollusca	Gastropoda (Class)	487551
<u>Clione</u> sp.	Mollusca	Gastropoda (Class)	487550
<u>Clupea harengus pallasii</u>	Chordata	Clupeidae (Family)	759251
<u>Cocconeis placentula</u> var. <u>euglypta</u>	Chrysophyta	Protista (Kingdom)	021071
<u>Cocconeis scutellum</u> var. <u>stauroneiformis</u>	Chrysophyta	Protista (Kingdom)	021072
Coleoptera (Order)	Arthropoda	Insecta (Class)	467330
<u>Colus</u> sp.	Mollusca	Gastropoda (Class)	487560
<u>Colus togatus</u>	Mollusca	Gastropoda (Class)	487561
<u>Conchoecia borealis maxima</u>	Arthropoda	Ostracoda (Class)	353712
<u>Conchoecia elegans</u>	Arthropoda	Ostracoda (Class)	353713
<u>Conchoecia obtusata</u>	Arthropoda	Ostracoda (Class)	353714
<u>Conchoecia</u> sp.	Arthropoda	Ostracoda (Class)	353711
<u>Conichilus</u> sp.	Rotifera	Rotifera (Phylum)	151620
Copepoda (Class)	Arthropoda	Copepoda (Class)	360000
<u>Coregonus autumnalis</u>	Chordata	Salmonidae (Family)	779291
<u>Coregonus clupeaformis</u>	Chordata	Salmonidae (Family)	779292
<u>Coregonus nasus</u>	Chordata	Salmonidae (Family)	779293
<u>Coregonus sardinella</u>	Chordata	Salmonidae (Family)	779294
<u>Coregonus</u> sp.	Chordata	Salmonidae (Family)	779290
Corixidae (Family)	Arthropoda	Insecta (Class)	467412
Corydalidae (Family)	Arthropoda	Insecta (Class)	467351
<u>Coscinodiscus kuetzingii</u>	Chrysophyta	Protista (Kingdom)	021081
<u>Coscinodiscus</u> sp.	Chrysophyta	Protista (Kingdom)	021080
<u>Cosmetira pilosella</u>	Cnidaria	Hydrozoa (Class)	080891
<u>Cosmetira</u> sp.	Cnidaria	Hydrozoa (Class)	080890
<u>Cossura longocirrata</u>	Annelida	Polychaeta (Class)	232222
<u>Cossura</u> sp.	Annelida	Polychaeta (Class)	232220
Cottidae (Family)	Chordata	Cottidae (Family)	800000
Crinoidea (Class)	Echinodermata	Crinoidea (Class)	590000
<u>Crisia denticulata</u>	Bryozoa	Bryozoa (Phylum)	558421
<u>Crisia</u> sp.	Bryozoa	Bryozoa (Phylum)	558420
<u>Cristatella mucedo</u>	Bryozoa	Bryozoa (Phylum)	558381
Crustacea (Subphylum)	Arthropoda	Crustacea (Subphylum)	650000
<u>Cryptomonas</u> sp.	Cryptophyta	Protista (Kingdom)	026010
<u>Ctenodiscus crispatus</u>	Echinodermata	Stellerioidea (Class)	608761
Ctenophora (Phylum)		Ctenophora (Phylum)	120000
Culicidae (Family)	Arthropoda	Insecta (Class)	467273
Cumacea (Order)	Arthropoda	Cumacea (Order)	390000
<u>Cyanea capillata</u>	Cnidaria	Scyphozoa (Class)	090011

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Cyanea</u> sp.	Cnidaria	Scyphozoa (Class)	090010
<u>Cyclopina</u> sp.	Arthropoda	Copepoda (Class)	364140
<u>Cyclopoida</u> (Order)	Arthropoda	Copepoda (Class)	365020
<u>Cyclops bicolor</u>	Arthropoda	Copepoda (Class)	364133
<u>Cyclops bicuspidatus</u>	Arthropoda	Copepoda (Class)	364132
<u>Cyclops</u> sp.	Arthropoda	Copepoda (Class)	364130
<u>Cyclops vernalis</u>	Arthropoda	Copepoda (Class)	364131
<u>Cyclops</u> sp. <u>vernalis</u>	Arthropoda	Copepoda (Class)	364134
<u>Cyclotella</u> <u>coata</u>	Chrysophyta	Protista (Kingdom)	021091
<u>Cylichna alba</u>	Mollusca	Gastropoda (Class)	487571
<u>Cylichna</u> <u>occulata</u>	Mollusca	Gastropoda (Class)	487572
<u>Cylichna</u> sp.	Mollusca	Gastropoda (Class)	487570
<u>Cylindrotheca closterium</u>	Chrysophyta	Protista (Kingdom)	021101
Cynipidae (Family)	Arthropoda	Insecta (Class)	467311
Cypridae (Family)	Arthropoda	Ostracoda (Class)	353980
<u>Cyrtodaria kurriana</u>	Mollusca	Bivalvia (Class)	517941
<u>Cystisella</u> sp.	Bryozoa	Bryozoa (Phylum)	558470
Cytherettidae (Family)	Arthropoda	Ostracoda (Class)	353870
Cytheridae (Family)	Arthropoda	Ostracoda (Class)	353860
Cytherideidae (Family)	Arthropoda	Ostracoda (Class)	353880
<u>Dacrydium vitreum</u>	Mollusca	Bivalvia (Class)	517951
<u>Dactylopodia</u> sp.	Arthropoda	Copepoda (Class)	364530
<u>Dajus mysidis</u>	Arthropoda	Isopoda (Order)	425851
<u>Dajus</u> sp.	Arthropoda	Isopoda (Order)	425850
<u>Daphnia</u> cf. <u>pulex</u>	Arthropoda	Cladocera (Suborder)	375111
<u>Daphnia longispina</u>	Arthropoda	Cladocera (Suborder)	375112
<u>Daphnia</u> sp.	Arthropoda	Cladocera (Suborder)	375110
Decapoda (Order)	Arthropoda	Decapoda (Order)	450000
<u>Delectopecten groenlandicus</u>	Mollusca	Bivalvia (Class)	517961
<u>Dendronotus frondosus</u>	Mollusca	Gastropoda (Class)	487581
<u>Dentalina</u> sp.	Sarcomastigophora	Foraminiferida (Order)	060420
<u>Dentalina</u> <u>truilloi</u>	Sarcomastigophora	Foraminiferida (Order)	060421
<u>Desmosoma lineare</u>	Arthropoda	Isopoda (Order)	425751
<u>Diaptomus ashlandi</u>	Arthropoda	Copepoda (Class)	364173
<u>Diaptomus nevadensis</u>	Arthropoda	Copepoda (Class)	364174
<u>Diaptomus oregonensis</u>	Arthropoda	Copepoda (Class)	364175
<u>Diaptomus sicilis</u>	Arthropoda	Copepoda (Class)	364171
<u>Diaptomus</u> sp.	Arthropoda	Copepoda (Class)	364170
<u>Diastylis edwardsi</u>	Arthropoda	Cumacea (Order)	395372
<u>Diastylis goodsiri</u>	Arthropoda	Cumacea (Order)	395373
<u>Diastylis lepechini</u>	Arthropoda	Cumacea (Order)	395378
<u>Diastylis rathkei</u>	Arthropoda	Cumacea (Order)	395375
<u>Diastylis</u> sp.	Arthropoda	Cumacea (Order)	395370
<u>Diastylis spinulosa</u>	Arthropoda	Cumacea (Order)	395379
<u>Diatoma elongatum</u>	Chrysophyta	Protista (Kingdom)	021111
Didemnidae (Family)	Chordata	Ascidacea (Class)	639150
<u>Dimophyes arctica</u>	Cnidaria	Hydrozoa (Class)	080751
<u>Dimophyes</u> sp.	Cnidaria	Hydrozoa (Class)	080750
Dinoflagellida (Order)	Sarcomastigophora	Dinoflagellida (Order)	050000
<u>Diploneis incurvata</u>	Chrysophyta	Protista (Kingdom)	021121
<u>Diploneis litoralis</u> var. <u>clathrata</u>	Chrysophyta	Protista (Kingdom)	021122
<u>Diploneis vacillans</u>	Chrysophyta	Protista (Kingdom)	021123
Diptera (Order)	Arthropoda	Insecta (Class)	467260
Dixidae (Family)	Arthropoda	Insecta (Class)	467270
Dolichopodidae (Family)	Arthropoda	Insecta (Class)	467278
<u>Drepanopus bungei</u>	Arthropoda	Copepoda (Class)	364181
<u>Dyopodos porrectus</u>	Arthropoda	Amphipoda (Order)	436301
Dytiscidae (Family)	Arthropoda	Insecta (Class)	467331
<u>Ebria tripartita</u>	Chrysophyta	Protista (Kingdom)	025011
<u>Echinochila (=Cadlina) laevis</u>	Mollusca	Gastropoda (Class)	487601
Echinoidea (Class)	Echinodermata	Echinoidea (Class)	620000
Echiura (Phylum)		Echiura (Phylum)	210000

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Ectinosomidae</u> (Family)	Arthropoda	Copepoda (Class)	364570
<u>Edwardsiidae</u> (Family)	Cnidaria	Anthozoa (Class)	101120
<u>Eleginus gracilis</u>	Chordata	Gadidae (Family)	789361
<u>Elphidiidae</u> (Family)	Sarcomastigophora	Foraminiferida (Order)	060400
<u>Empididae</u> (Family)	Arthropoda	Insecta (Class)	467267
<u>Entoprocta</u> (Phylum)		Entoprocta (Phylum)	660000
<u>Eoguttulina anglica</u>	Sarcomastigophora	Foraminiferida (Order)	060431
<u>Ephemeridae</u> (Family)	Arthropoda	Insecta (Class)	467363
<u>Ephemeroptera</u> (Order)	Arthropoda	Insecta (Class)	467360
<u>Epischura lacustris</u>	Arthropoda	Copepoda (Class)	364201
<u>Epischura nevadensis</u>	Arthropoda	Copepoda (Class)	364202
<u>Epischura</u> sp.	Arthropoda	Copepoda (Class)	364200
<u>Erichthonius</u> sp.	Arthropoda	Amphipoda (Order)	436310
<u>Erythrops erythropthalma</u>	Arthropoda	Mysidacea (Order)	415681
<u>Escharella klugei</u>	Bryozoa	Bryozoa (Phylum)	558431
<u>Eteone flava</u>	Annelida	Polychaeta (Class)	232862
<u>Eteone longa</u>	Annelida	Polychaeta (Class)	232271
<u>Eteone</u> sp.	Annelida	Polychaeta (Class)	232860
<u>Eteone spetzbergensis</u>	Annelida	Polychaeta (Class)	232861
<u>Eualus gaimardii</u>	Arthropoda	Decapoda (Order)	457061
<u>Eualus</u> sp.	Arthropoda	Decapoda (Order)	457060
<u>Eubranchnus pallidus</u>	Mollusca	Gastropoda (Class)	487761
<u>Eucalanus bungii bungii</u>	Arthropoda	Copepoda (Class)	364211
<u>Eucalanus</u> sp.	Arthropoda	Copepoda (Class)	364210
<u>Euchaeta glacialis</u>	Arthropoda	Copepoda (Class)	364221
<u>Euchaeta</u> sp.	Arthropoda	Copepoda (Class)	364220
<u>Euchone analis</u>	Annelida	Polychaeta (Class)	232281
<u>Euchone papillosa</u>	Annelida	Polychaeta (Class)	232282
<u>Euchone</u> sp.	Annelida	Polychaeta (Class)	232280
<u>Eucreatea loricata</u>	Bryozoa	Bryozoa (Phylum)	558391
<u>Eucreatea</u> sp.	Bryozoa	Bryozoa (Phylum)	558390
<u>Eudorella</u> sp. near <u>hirsuta</u>	Arthropoda	Cumacea (Order)	395384
<u>Eugerdia glouceps</u>	Arthropoda	Isopoda (Order)	425761
<u>Euglena proxima</u>	Euglenophyta	Protista (Kingdom)	027011
<u>Euglena viridis</u>	Euglenophyta	Protista (Kingdom)	027012
<u>Eukrohnia hamata</u>	Chaetognatha	Chaetognatha (Phylum)	588651
<u>Eukrohnia</u> sp.	Chaetognatha	Chaetognatha (Phylum)	588650
<u>Eumedusa birulai</u>	Cnidaria	Hydrozoa (Class)	080761
<u>Eumedusa</u> sp.	Cnidaria	Hydrozoa (Class)	080760
<u>Eunotia lunaris</u>	Chrysophyta	Protista (Kingdom)	021131
<u>Euphausiacea</u> (Order)	Arthropoda	Euphausiacea (Order)	440000
<u>Euphysa flammea</u>	Cnidaria	Hydrozoa (Class)	080771
<u>Euphysa</u> sp.	Cnidaria	Hydrozoa (Class)	080770
<u>Eurytemora americana</u>	Arthropoda	Copepoda (Class)	364236
<u>Eurytemora canadensis</u>	Arthropoda	Copepoda (Class)	364235
<u>Eurytemora composita</u>	Arthropoda	Copepoda (Class)	364239
<u>Eurytemora herdmanni</u>	Arthropoda	Copepoda (Class)	364231
<u>Eurytemora hirundoides</u>	Arthropoda	Copepoda (Class)	364238
<u>Eurytemora raboti</u>	Arthropoda	Copepoda (Class)	364232
<u>Eurytemora richingsi</u>	Arthropoda	Copepoda (Class)	364233
<u>Eurytemora</u> sp.	Arthropoda	Copepoda (Class)	364230
<u>Exoqone gemmifera</u>	Annelida	Polychaeta (Class)	232302
<u>Fabricia</u> sp.	Annelida	Polychaeta (Class)	232890
<u>Filinia</u> sp.	Rotifera	Rotifera (Phylum)	151660
<u>Flustra serrulata</u>	Bryozoa	Bryozoa (Phylum)	558401
<u>Flustra</u> sp.	Bryozoa	Bryozoa (Phylum)	558400
<u>Foraminiferida</u> (Order)	Sarcomastigophora	Foraminiferida (Order)	060000
<u>Formicidae</u> (Family)	Arthropoda	Insecta (Class)	467283
<u>Fragilaria construens</u>	Chrysophyta	Protista (Kingdom)	021141
<u>Fragilaria islandica</u>	Chrysophyta	Protista (Kingdom)	021142
<u>Fragilaria pinnata</u>	Chrysophyta	Protista (Kingdom)	021143
<u>Fragilaria striatula</u>	Chrysophyta	Protista (Kingdom)	021144

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Fritillaria borealis</u>	Chordata	Larvacea (Class)	649211
Gadidae (Family)	Chordata	Gadidae (Family)	780000
<u>Gaidius tenuispinus</u>	Arthropoda	Copepoda (Class)	364241
<u>Gammaracanthus loricatus</u>	Arthropoda	Amphipoda (Order)	436331
<u>Gammarus setosus</u>	Arthropoda	Amphipoda (Order)	436352
<u>Gammarus</u> sp.	Arthropoda	Amphipoda (Order)	436350
<u>Gammarus wilkitzkii</u>	Arthropoda	Amphipoda (Order)	436353
Gastropoda (Class)	Mollusca	Gastropoda (Class)	480000
<u>Gattyana cirrosa</u>	Annelida	Polychaeta (Class)	232321
<u>Gattyana</u> sp.	Annelida	Polychaeta (Class)	232320
<u>Gersemia rubiformis</u>	Cnidaria	Anthozoa (Class)	101111
<u>Globigerina</u> sp.	Sarcomastigophora	Foraminiferida (Order)	060471
<u>Gomphonema exiguum</u>	Chrysophyta	Protista (Kingdom)	021151
<u>Gomphonema kamschaticum</u>	Chrysophyta	Protista (Kingdom)	021152
<u>Gomphonema</u> sp.	Chrysophyta	Protista (Kingdom)	021150
<u>Gorgonocephalus arcticus</u>	Echinodermata	Stelleroidea (Class)	608771
<u>Gorgonocephalus</u> sp.	Echinodermata	Stelleroidea (Class)	608770
Gracilariidae (Family)	Arthropoda	Insecta (Class)	467342
<u>Gymnocanthus tricuspis</u>	Chordata	Cottidae (Family)	809421
<u>Gymnodinium</u> sp.	Pyrrophyta	Protista (Kingdom)	022020
<u>Gyrosigma</u> cf. <u>kuetzingii</u>	Chrysophyta	Protista (Kingdom)	021161
<u>Halacarus basteri basteri</u>	Arthropoda	Acari (Order)	333401
<u>Haliecium</u> sp.	Cnidaria	Hydrozoa (Class)	080780
<u>Halicyptus</u> sp.	Priapulida	Priapulida (Phylum)	191800
<u>Halicyptus spinulosus</u>	Priapulida	Priapulida (Phylum)	191801
<u>Haliragoides inermis</u>	Arthropoda	Amphipoda (Order)	436741
<u>Halitholus cirratus</u>	Cnidaria	Hydrozoa (Class)	080791
<u>Halitholus pauper</u>	Cnidaria	Hydrozoa (Class)	080792
<u>Halitholus</u> sp.	Cnidaria	Hydrozoa (Class)	080790
<u>Halobiotus arcturulus</u>	Tardigrada	Tardigrada (Phylum)	477451
Halocyprididae (Family)	Arthropoda	Ostracoda (Class)	353950
<u>Haloptilus acutifrons</u>	Arthropoda	Copepoda (Class)	364521
<u>Haminoea solitaria</u>	Mollusca	Gastropoda (Class)	487611
<u>Hantzschia weyprechii</u>	Chrysophyta	Protista (Kingdom)	021171
Haplosclerida (Order)	Porifera	Porifera (Phylum)	070610
<u>Harmothoe extenuata</u>	Annelida	Polychaeta (Class)	232341
Harpacticoida (Order)	Arthropoda	Copepoda (Class)	365030
<u>Harpacticus</u> sp.	Arthropoda	Copepoda (Class)	364250
<u>Harpacticus uniremis</u>	Arthropoda	Copepoda (Class)	364252
<u>Harpinia serrata</u>	Arthropoda	Amphipoda (Order)	436391
<u>Hartmeyera</u> sp.	Chordata	Ascidiacea (Class)	639140
Hemerobiidae (Family)	Arthropoda	Insecta (Class)	467391
<u>Hemicythere</u> sp.	Arthropoda	Ostracoda (Class)	353891
Hemicytheridae (Family)	Arthropoda	Ostracoda (Class)	353890
Hemiuridae (Family)	Platyhelminthes	Platyhelminthes (Phylum)	131420
Heptageniidae (Family)	Arthropoda	Insecta (Class)	467362
<u>Heterocope septemcarinata</u>	Arthropoda	Copepoda (Class)	364262
<u>Heterocope septentrionalis</u>	Arthropoda	Copepoda (Class)	364261
<u>Heterocope</u> sp.	Arthropoda	Copepoda (Class)	364260
Heterocyprideidae (Family)	Arthropoda	Ostracoda (Class)	353881
<u>Heteronemertea</u> sp.	Nemertea	Nemertea (Phylum)	141530
<u>Heterorhabdus norvegicus</u>	Arthropoda	Copepoda (Class)	364271
<u>Hiatella arctica</u>	Mollusca	Bivalvia (Class)	517971
Hippolytidae (Family)	Arthropoda	Decapoda (Order)	457120
Hirudinea (Class)	Annelida	Hirudinea (Class)	320000
<u>Hoploneurtea</u> sp.	Nemertea	Nemertea (Phylum)	141520
<u>Hormathia</u> sp.	Cnidaria	Anthozoa (Class)	101100
<u>Hormathia</u> sp. (? nodosa)	Cnidaria	Anthozoa (Class)	101101
<u>Hyas</u> sp.	Arthropoda	Decapoda (Order)	457110
Hydropsychidae (Family)	Arthropoda	Insecta (Class)	467382
<u>Hydrozetes</u> sp.	Arthropoda	Acari (Order)	333410
Hydrozoa (Class)	Cnidaria	Hydrozoa (Class)	080000

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
Hymenoptera (Order)	Arthropoda	Insecta (Class)	467280
<u>Hyperia galba</u>	Arthropoda	Amphipoda (Order)	436411
<u>Hyperia medusarum</u>	Arthropoda	Amphipoda (Order)	436412
<u>Hyperia</u> sp.	Arthropoda	Amphipoda (Order)	436410
<u>Hyperiididae</u> sp.	Arthropoda	Amphipoda (Order)	436730
<u>Hyperoche medusarum</u>	Arthropoda	Amphipoda (Order)	436711
<u>Icelus</u> sp.	Chordata	Cottidae (Family)	809430
Ichneumonidae (Family)	Arthropoda	Insecta (Class)	467284
Insecta (Class)	Arthropoda	Insecta (Class)	460000
<u>Ischyrocerus commensalis</u>	Arthropoda	Amphipoda (Order)	436421
<u>Ischyrocerus latipes</u>	Arthropoda	Amphipoda (Order)	436422
<u>Ischyrocerus</u> sp.	Arthropoda	Amphipoda (Order)	436420
Isopoda (Order)	Arthropoda	Isopoda (Order)	420000
<u>Jaschnovia (=Derjuginia) tolli</u>	Arthropoda	Copepoda (Class)	364471
<u>Kellicottia</u> sp.	Rotifera	Rotifera (Phylum)	151630
<u>Keratella cochlearis</u>	Rotifera	Rotifera (Phylum)	151601
<u>Keratella quadrata</u>	Rotifera	Rotifera (Phylum)	151602
<u>Keratella</u> sp.	Rotifera	Rotifera (Phylum)	151600
Kinorhyncha (Phylum)		Kinorhyncha (Phylum)	170000
<u>Kirchneriella lunaris</u>	Chlorophyta	Protista (Kingdom)	023041
<u>Koliella</u> sp.	Chlorophyta	Protista (Kingdom)	023050
<u>Lampetra japonica</u>	Chordata	Petromyzontidae (Family)	749241
<u>Lanassa nordenskioldi</u>	Annelida	Polychaeta (Class)	232371
<u>Lanassa</u> sp.	Annelida	Polychaeta (Class)	232370
<u>Lanassa</u> sp. nr <u>L. venusta</u>	Annelida	Polychaeta (Class)	232372
<u>Laonice cirrata</u>	Annelida	Polychaeta (Class)	232381
<u>Laophonte</u> sp.	Arthropoda	Copepoda (Class)	365050
Larvacea (Class)	Chordata	Larvacea (Class)	640000
<u>Lauterbornia</u> sp.	Arthropoda	Insecta (Class)	467290
<u>Lebbeus polaris</u>	Arthropoda	Decapoda (Order)	457101
<u>Lebbeus</u> sp.	Arthropoda	Decapoda (Order)	457100
<u>Lecithaster</u> sp.	Platyhelminthes	Platyhelminthes (Phylum)	131410
<u>Lembos (=Arctolembos) arcticus</u>	Arthropoda	Amphipoda (Order)	436431
<u>Lembos (=Arctolembos) borealis</u>	Arthropoda	Amphipoda (Order)	436432
<u>Lembos</u> sp.	Arthropoda	Amphipoda (Order)	436430
<u>Leptagonus decagonus</u>	Chordata	Agonidae (Family)	819461
<u>Leptognathia gracilis</u>	Arthropoda	Tanaidacea (Order)	405552
<u>Leptognathia</u> sp.	Arthropoda	Tanaidacea (Order)	405550
<u>Leptostylis longimana</u>	Arthropoda	Cumacea (Order)	395411
<u>Leptostylis</u> sp.	Arthropoda	Cumacea (Order)	395410
<u>Leuckartiara nobilis</u>	Cnidaria	Hydrozoa (Class)	080901
<u>Leuckartiara</u> sp.	Cnidaria	Hydrozoa (Class)	080900
<u>Leucon fulvus</u>	Arthropoda	Cumacea (Order)	395402
<u>Leucon nasica</u>	Arthropoda	Cumacea (Order)	395403
<u>Leucon</u> sp.	Arthropoda	Cumacea (Order)	395400
<u>Limnophora gracilis</u> var. <u>anglica</u>	Chrysophyta	Protista (Kingdom)	021181
<u>Limacina helicina</u>	Mollusca	Gastropoda (Class)	487631
<u>Limacina</u> sp.	Mollusca	Gastropoda (Class)	487630
Limnephilidae (Family)	Arthropoda	Insecta (Class)	467381
<u>Limnocalanus johanseni</u>	Arthropoda	Copepoda (Class)	364282
<u>Limnocalanus macrurus</u>	Arthropoda	Copepoda (Class)	364281
<u>Limnocalanus</u> sp.	Arthropoda	Copepoda (Class)	364280
Limnocytheridae (Family)	Arthropoda	Ostracoda (Class)	353900
<u>Liparis fabricii</u>	Chordata	Cyclopteridae (Family)	829491
<u>Liparis</u> sp.	Chordata	Cyclopteridae (Family)	829490
<u>Liparis tunicatus</u>	Chordata	Cyclopteridae (Family)	829493
<u>Lumbrineris minuta</u>	Annelida	Polychaeta (Class)	232422
<u>Lunatia (=Polinices) pallida</u>	Mollusca	Gastropoda (Class)	487641
<u>Lycodes</u> sp.	Chordata	Zoarcidae (Family)	839510
<u>Lyonsia arenosa</u>	Mollusca	Bivalvia (Class)	517991
Lysianassidae (Family)	Arthropoda	Amphipoda (Order)	436780
<u>Lysilla loveni</u>	Annelida	Polychaeta (Class)	232841

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Lysippe labiata</u>	Annelida	Polychaeta (Class)	232431
<u>Macoma balthica</u>	Mollusca	Bivalvia (Class)	518001
<u>Macoma calcarea</u>	Mollusca	Bivalvia (Class)	518002
<u>Macoma calcarea</u> c.f. <u>oblique</u>	Mollusca	Bivalvia (Class)	518006
<u>Macoma moesta</u>	Mollusca	Bivalvia (Class)	518003
<u>Macoma niger</u>	Mollusca	Bivalvia (Class)	518004
<u>Macoma</u> sp.	Mollusca	Bivalvia (Class)	518000
Macrocypridae (Family)	Arthropoda	Ostracoda (Class)	353960
<u>Maldane sarsi</u>	Annelida	Polychaeta (Class)	232451
<u>Margarites costalis</u>	Mollusca	Gastropoda (Class)	487651
<u>Margarites olivaceus</u>	Mollusca	Gastropoda (Class)	487652
<u>Melaenis loveni</u>	Annelida	Polychaeta (Class)	232461
<u>Melicertum octocostatum</u>	Cnidaria	Hydrozoa (Class)	080801
<u>Melicertum</u> sp.	Cnidaria	Hydrozoa (Class)	080800
<u>Melita dentata</u>	Arthropoda	Amphipoda (Order)	436441
<u>Melita formosa</u>	Arthropoda	Amphipoda (Order)	436442
<u>Melosira arctica</u>	Chrysophyta	Protista (Kingdom)	021191
<u>Mertensia ovum</u>	Ctenophora	Ctenophora (Phylum)	121221
<u>Mertensia</u> sp.	Ctenophora	Ctenophora (Phylum)	121220
<u>Mesidotea entomon</u>	Arthropoda	Isopoda (Order)	425811
<u>Mesidotea sabinii</u>	Arthropoda	Isopoda (Order)	425812
<u>Mesidotea sibirica</u>	Arthropoda	Isopoda (Order)	425813
<u>Mesidotea</u> sp.	Arthropoda	Isopoda (Order)	425810
<u>Mesocyclops edax</u>	Arthropoda	Copepoda (Class)	365081
<u>Metopa longirama</u>	Arthropoda	Amphipoda (Order)	436452
<u>Metopa</u> sp.	Arthropoda	Amphipoda (Order)	436450
<u>Metridia longa</u>	Arthropoda	Copepoda (Class)	364301
<u>Metridium</u> sp.	Cnidaria	Anthozoa (Class)	101140
<u>Microcalanus pygmaeus</u>	Arthropoda	Copepoda (Class)	364311
<u>Microcalanus</u> sp.	Arthropoda	Copepoda (Class)	364310
<u>Microlepidoptera</u> sp.	Arthropoda	Insecta (Class)	467341
<u>Micronephthys minuta</u>	Annelida	Polychaeta (Class)	232481
<u>Micronephthys</u> sp.	Annelida	Polychaeta (Class)	232480
<u>Microsetella norvegica</u>	Arthropoda	Copepoda (Class)	364321
<u>Microsetella rosea</u>	Arthropoda	Copepoda (Class)	364322
Milichiidae (Family)	Arthropoda	Insecta (Class)	467276
<u>Mimocalanus</u> sp.	Arthropoda	Copepoda (Class)	364500
Miridae (Family)	Arthropoda	Insecta (Class)	467411
<u>Mnemioopsis</u> sp.	Ctenophora	Ctenophora (Phylum)	121210
<u>Monoculodes borealis</u>	Arthropoda	Amphipoda (Order)	436472
<u>Monoculodes packardii</u>	Arthropoda	Amphipoda (Order)	436473
<u>Monoculodes</u> sp.	Arthropoda	Amphipoda (Order)	436470
<u>Munnopsis</u> sp.	Arthropoda	Isopoda (Order)	425820
<u>Munnopsis typica</u>	Arthropoda	Isopoda (Order)	425821
<u>Munnopsurus giganteus</u>	Arthropoda	Isopoda (Order)	425841
Muscidae (Family)	Arthropoda	Insecta (Class)	467263
<u>Musculus discors</u> var. <u>laevigatus</u>	Mollusca	Bivalvia (Class)	518022
<u>Musculus niger</u>	Mollusca	Bivalvia (Class)	518023
<u>Musculus</u> sp.	Mollusca	Bivalvia (Class)	518020
<u>Mya arenaria</u>	Mollusca	Bivalvia (Class)	518032
Mycetophilidae (Family)	Arthropoda	Insecta (Class)	467300
Mydocopa (Order)	Arthropoda	Ostracoda (Class)	353700
<u>Myoxocephalus quadricornis</u>	Chordata	Cottidae (Family)	809441
<u>Myriotrochus rinki</u>	Echinodermata	Holothuroidea (Class)	618951
Mysidacea (Order)	Arthropoda	Mysidacea (Order)	410000
<u>Mysis litoralis</u>	Arthropoda	Mysidacea (Order)	415661
<u>Mysis oculata</u>	Arthropoda	Mysidacea (Order)	415662
<u>Mysis polaris</u>	Arthropoda	Mysidacea (Order)	415664
<u>Mysis relicta</u>	Arthropoda	Mysidacea (Order)	415663
<u>Mysis</u> sp.	Arthropoda	Mysidacea (Order)	415660
<u>Mytilus edulis</u>	Mollusca	Bivalvia (Class)	518051
<u>Myzobdella luqubris</u>	Annelida	Hirudinea (Class)	323351

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Natica clausa</u>	Mollusca	Gastropoda (Class)	487671
<u>Navicula algida</u>	Chrysophyta	Protista (Kingdom)	021201
<u>Navicula bahusiensis</u>	Chrysophyta	Protista (Kingdom)	021202
<u>Navicula directa</u>	Chrysophyta	Protista (Kingdom)	021203
<u>Navicula directa</u> var. <u>cuneata</u>	Chrysophyta	Protista (Kingdom)	021204
<u>Navicula gastrum</u>	Chrysophyta	Protista (Kingdom)	021205
<u>Navicula glacialis</u>	Chrysophyta	Protista (Kingdom)	021206
<u>Navicula gracilis</u>	Chrysophyta	Protista (Kingdom)	021207
<u>Navicula kariana</u>	Chrysophyta	Protista (Kingdom)	021208
<u>Navicula maculosa</u>	Chrysophyta	Protista (Kingdom)	021209
<u>Navicula marina</u>	Chrysophyta	Protista (Kingdom)	021211
<u>Navicula pelagica</u>	Chrysophyta	Protista (Kingdom)	021212
<u>Navicula pygmaea</u>	Chrysophyta	Protista (Kingdom)	021213
<u>Navicula rhynchocephala</u>	Chrysophyta	Protista (Kingdom)	021214
<u>Navicula salinarum</u>	Chrysophyta	Protista (Kingdom)	021215
<u>Navicula scopulorum</u>	Chrysophyta	Protista (Kingdom)	021216
<u>Navicula</u> sp.	Chrysophyta	Protista (Kingdom)	021200
<u>Navicula spicula</u>	Chrysophyta	Protista (Kingdom)	021217
<u>Navicula vanhoeffenii</u>	Chrysophyta	Protista (Kingdom)	021218
<u>Navicula vitrea</u>	Chrysophyta	Protista (Kingdom)	021219
<u>Neidium bisulcatum</u>	Chrysophyta	Protista (Kingdom)	021221
<u>Neidium bisulcatum</u> cf. var. <u>undulata</u>	Chrysophyta	Protista (Kingdom)	021222
Nematoda (Phylum)		Nematoda (Phylum)	180000
Nemertea (Phylum)		Nemertea (Phylum)	140000
<u>Neocalanus cristatus</u>	Arthropoda	Copepoda (Class)	364491
<u>Neocalanus</u> sp.	Arthropoda	Copepoda (Class)	364490
<u>Neomysis intermedia</u>	Arthropoda	Mysidacea (Order)	415702
<u>Neomysis</u> sp. (?)	Arthropoda	Mysidacea (Order)	415700
<u>Neopleustes eucanthus</u>	Arthropoda	Amphipoda (Order)	436491
<u>Nephtys ciliata</u>	Annelida	Polychaeta (Class)	232501
<u>Nephtys neotena</u>	Annelida	Polychaeta (Class)	232482
<u>Nephtys</u> sp.	Annelida	Polychaeta (Class)	232500
<u>Neptunea heros</u>	Mollusca	Gastropoda (Class)	487681
<u>Neptunea</u> sp.	Mollusca	Gastropoda (Class)	487680
<u>Nereimyra aphroditoides</u>	Annelida	Polychaeta (Class)	232511
<u>Nereimyra</u> sp.	Annelida	Polychaeta (Class)	232510
<u>Nereis pelagica</u>	Annelida	Polychaeta (Class)	232521
<u>Nereis</u> sp.	Annelida	Polychaeta (Class)	232520
<u>Neumania kodiakica</u>	Arthropoda	Acarí (Order)	333431
<u>Nitzschia acicularis</u>	Chrysophyta	Protista (Kingdom)	021231
<u>Nitzschia angularis</u>	Chrysophyta	Protista (Kingdom)	021233
<u>Nitzschia</u> cf. <u>acuminata</u>	Chrysophyta	Protista (Kingdom)	021232
<u>Nitzschia</u> cf. <u>palea</u>	Chrysophyta	Protista (Kingdom)	021239
<u>Nitzschia</u> cf. <u>thermalis</u>	Chrysophyta	Protista (Kingdom)	021246
<u>Nitzschia ciosterium</u>	Chrysophyta	Protista (Kingdom)	021234
<u>Nitzschia cylindrus</u>	Chrysophyta	Protista (Kingdom)	021235
<u>Nitzschia frigida</u>	Chrysophyta	Protista (Kingdom)	021236
<u>Nitzschia laevisima</u>	Chrysophyta	Protista (Kingdom)	021237
<u>Nitzschia longissima</u>	Chrysophyta	Protista (Kingdom)	021238
<u>Nitzschia plana</u>	Chrysophyta	Protista (Kingdom)	021241
<u>Nitzschia polaris</u>	Chrysophyta	Protista (Kingdom)	021242
<u>Nitzschia seriata</u>	Chrysophyta	Protista (Kingdom)	021243
<u>Nitzschia sigma</u>	Chrysophyta	Protista (Kingdom)	021244
<u>Nitzschia sigmaidea</u>	Chrysophyta	Protista (Kingdom)	021245
<u>Nitzschia</u> sp.	Chrysophyta	Protista (Kingdom)	021230
<u>Nothria conchylega</u>	Annelida	Polychaeta (Class)	232901
<u>Nucula bellotti</u>	Mollusca	Bivalvia (Class)	518061
<u>Nuculana pernula</u>	Mollusca	Bivalvia (Class)	518072
Nudibranchia (Order)	Mollusca	Gastropoda (Class)	487800
<u>Nymphon grossipes</u>	Arthropoda	Pycnogonidae (Class)	343601
<u>Obelia longissima</u>	Cnidaria	Hydrozoa (Class)	080821
<u>Obelia</u> sp.	Cnidaria	Hydrozoa (Class)	080820

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Ochronomas</u> sp.	Chrysophyta	Protista (Kingdom)	024030
<u>Octopus</u> sp.	Mollusca	Cephalopoda (Class)	538240
<u>Odontosyllis</u> sp.	Annelida	Polychaeta (Class)	232820
<u>Oediceros saginatus</u>	Arthropoda	Amphipoda (Order)	436691
<u>Oediceros</u> sp.	Arthropoda	Amphipoda (Order)	436690
<u>Oenopota</u> cf. <u>cinerea</u>	Mollusca	Gastropoda (Class)	487698
<u>Oenopota incisula</u>	Mollusca	Gastropoda (Class)	487694
<u>Oenopota</u> sp.	Mollusca	Gastropoda (Class)	487690
<u>Oenopota turricula</u>	Mollusca	Gastropoda (Class)	487697
<u>Oikopleura</u> sp.	Chordata	Larvacea (Class)	649200
<u>Oikopleura vanhoffeni</u>	Chordata	Larvacea (Class)	649201
<u>Oithona similis</u>	Arthropoda	Copepoda (Class)	364351
<u>Oligochaeta</u> (Class)	Annelida	Oligochaeta (Class)	310000
<u>Oncaea borealis</u>	Arthropoda	Copepoda (Class)	364361
<u>Oncaea minuta</u>	Arthropoda	Copepoda (Class)	364362
<u>Onisimus glacialis</u>	Arthropoda	Amphipoda (Order)	436501
<u>Onisimus littoralis</u>	Arthropoda	Amphipoda (Order)	436502
<u>Onisimus nansenii</u>	Arthropoda	Amphipoda (Order)	436503
<u>Onisimus</u> sp.	Arthropoda	Amphipoda (Order)	436500
<u>Ophelina cylindricaudatus</u>	Annelida	Polychaeta (Class)	232871
<u>Ophiocten sericeum</u>	Echinodermata	Stelleroidea (Class)	608801
<u>Ophiocten</u> sp.	Echinodermata	Stelleroidea (Class)	608800
<u>Orchomene minuta</u>	Arthropoda	Amphipoda (Order)	436662
<u>Orchomene pinguis</u>	Arthropoda	Amphipoda (Order)	436661
<u>Orchomene</u> sp.	Arthropoda	Amphipoda (Order)	436660
Orthocladinae (Family)	Arthropoda	Insecta (Class)	467251
Orthonotacythere (Family)	Arthropoda	Ostracoda (Class)	353940
Osmeridae (Family)	Chordata	Osmeridae (Family)	760000
<u>Osmerus mordax</u>	Chordata	Osmeridae (Family)	769281
Ostracoda (Class)	Arthropoda	Ostracoda (Class)	350000
<u>Oxytoxum</u> sp.	Pyrrophyta	Protista (Kingdom)	022030
Pachyneuridae (Family)	Arthropoda	Insecta (Class)	467277
Paguridae (Family)	Arthropoda	Decapoda (Order)	457130
<u>Paracypriideis</u> sp.	Arthropoda	Ostracoda (Class)	353931
<u>Paramphithoe polycantha bruggeni</u>	Arthropoda	Amphipoda (Order)	436521
<u>Paraphoxus oculatus</u>	Arthropoda	Amphipoda (Order)	436511
<u>Parathemisto abyssorum</u>	Arthropoda	Amphipoda (Order)	436531
<u>Parathemisto libellula</u>	Arthropoda	Amphipoda (Order)	436532
<u>Parathemisto</u> sp.	Arthropoda	Amphipoda (Order)	436530
<u>Parerythrobs obesa</u>	Arthropoda	Mysidacea (Order)	415691
<u>Paroedicerus lynceus</u>	Arthropoda	Amphipoda (Order)	436551
<u>Paroedicerus propinquus</u>	Arthropoda	Amphipoda (Order)	436552
<u>Paroedicerus</u> sp.	Arthropoda	Amphipoda (Order)	436550
<u>Pectinaria hyperborea</u>	Annelida	Polychaeta (Class)	232571
<u>Pectinaria</u> sp.	Annelida	Polychaeta (Class)	232570
<u>Pelagobia</u> sp.	Annelida	Polychaeta (Class)	232940
<u>Peridiniella catenata</u>	Pyrrophyta	Protista (Kingdom)	022041
Perlodidae (Family)	Arthropoda	Insecta (Class)	467371
<u>Petalosarsia declivis</u>	Arthropoda	Cumacea (Order)	395431
<u>Phialidium languidum</u>	Cnidaria	Hydrozoa (Class)	080871
<u>Phialidium</u> sp.	Cnidaria	Hydrozoa (Class)	080870
<u>Pholoe</u> cf. <u>longa</u>	Annelida	Polychaeta (Class)	232593
<u>Pholoe</u> <u>longa</u>	Annelida	Polychaeta (Class)	232592
<u>Pholoe</u> sp.	Annelida	Polychaeta (Class)	232590
Phoridae (Family)	Arthropoda	Insecta (Class)	467268
Phoronida (Phylum)		Phoronida (Phylum)	560000
<u>Phryxus abdominalis</u>	Arthropoda	Isopoda (Order)	425861
<u>Phyllodoce groenlandica</u>	Annelida	Polychaeta (Class)	232601
<u>Pinnularia</u> cf. <u>gibba</u>	Chrysophyta	Protista (Kingdom)	021251
<u>Pinnularia quadratarea</u>	Chrysophyta	Protista (Kingdom)	021252
<u>Pinnularia quadratarea</u> var. <u>constricta</u>	Chrysophyta	Protista (Kingdom)	021253
<u>Pinnularia quadratarea</u> var. <u>minor</u>	Chrysophyta	Protista (Kingdom)	021254

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Piona exilis</u>	Arthropoda	Acari (Order)	333441
<u>Pipunculidae</u> (Family)	Arthropoda	Insecta (Class)	467269
<u>Platichthys stellatus</u>	Chordata	Pleuronectidae (Family)	869601
<u>Platyhelminthes</u> (Phylum)		Platyhelminthes (Phylum)	130000
<u>Pleurobrachia pileus</u>	Ctenophora	Ctenophora (Phylum)	121231
<u>Pleurobrachia</u> sp.	Ctenophora	Ctenophora (Phylum)	121230
<u>Pleuronectidae</u> (Family)	Chordata	Pleuronectidae (Family)	860000
<u>Pleurosigma angulatum</u>	Chrysophyta	Protista (Kingdom)	021261
<u>Pleurosigma angulatum</u> var. <u>strigosum</u>	Chrysophyta	Protista (Kingdom)	021262
<u>Pleurosigma clevei</u>	Chrysophyta	Protista (Kingdom)	021263
<u>Pleurosigma elongatum</u>	Chrysophyta	Protista (Kingdom)	021264
<u>Pleurosigma longum</u>	Chrysophyta	Protista (Kingdom)	021265
<u>Pleurosigma salinarum</u>	Chrysophyta	Protista (Kingdom)	021266
<u>Pleustes</u> sp.	Arthropoda	Amphipoda (Order)	436580
<u>Podocerus falcatus</u>	Arthropoda	Amphipoda (Order)	436791
<u>Podocopa</u> (Order)	Arthropoda	Ostracoda (Class)	353850
<u>Podon leuckarti</u>	Arthropoda	Cladocera (Suborder)	375121
<u>Podon</u> sp.	Arthropoda	Cladocera (Suborder)	375120
<u>Polyarthra</u> sp.	Rotifera	Rotifera (Phylum)	151640
<u>Polychaeta</u> (Class)	Annelida	Polychaeta (Class)	230000
<u>Polydora ciliata</u> complex	Annelida	Polychaeta (Class)	232625
<u>Polydora quadrilobata</u>	Annelida	Polychaeta (Class)	232624
<u>Polydora</u> sp.	Annelida	Polychaeta (Class)	232620
<u>Pontoporeia affinis</u>	Arthropoda	Amphipoda (Order)	436591
<u>Pontoporeia femorata</u>	Arthropoda	Amphipoda (Order)	436592
<u>Pontoporeia</u> sp.	Arthropoda	Amphipoda (Order)	436590
<u>Portlandia arctica</u> var. <u>aestua</u>	Mollusca	Bivalvia (Class)	518111
<u>Portlandia frigida</u>	Mollusca	Bivalvia (Class)	518113
<u>Portlandia</u> sp.	Mollusca	Bivalvia (Class)	518110
<u>Priapulida</u> (Phylum)		Priapulida (Phylum)	190000
<u>Priapulus bicaudatus</u>	Priapulida	Priapulida (Phylum)	191811
<u>Priapulus caudatus</u>	Priapulida	Priapulida (Phylum)	191812
<u>Priapulus</u> sp.	Priapulida	Priapulida (Phylum)	191810
<u>Prionospio cirrifera</u>	Annelida	Polychaeta (Class)	232661
<u>Progonocytheridae</u> (Family)	Arthropoda	Ostracoda (Class)	353910
<u>Prorocentrum rampi</u>	Pyrrophyta	Protista (Kingdom)	022051
<u>Protomedeia fasciata</u>	Arthropoda	Amphipoda (Order)	436611
<u>Protoperidinium bipes</u>	Pyrrophyta	Protista (Kingdom)	022061
<u>Protoperidinium globulus</u> var. <u>ovatum</u>	Pyrrophyta	Protista (Kingdom)	022062
<u>Protoperidinium grenlandicum</u>	Pyrrophyta	Protista (Kingdom)	022063
<u>Protoperidinium pellucidum</u>	Pyrrophyta	Protista (Kingdom)	022064
<u>Pseudaetideus armatus</u>	Arthropoda	Copepoda (Class)	365101
<u>Pseudocalanus minutus</u>	Arthropoda	Copepoda (Class)	364392
<u>Pseudocalanus</u> sp.	Arthropoda	Copepoda (Class)	364390
<u>Pseudocuma longicornis</u>	Arthropoda	Cumacea (Order)	395422
<u>Pseudocuma</u> sp.	Arthropoda	Cumacea (Order)	395420
<u>Pseudopolymorphina</u> sp.	Sarcomastigophora	Foraminiferida (Order)	060440
<u>Psilidae</u> (Family)	Arthropoda	Insecta (Class)	467279
<u>Psyllidae</u> (Family)	Arthropoda	Insecta (Class)	467322
<u>Pungitius pungitius</u>	Chordata	Gasterosteidae (Family)	799391
<u>Pycnophyes canadensis</u>	Kinorhyncha	Kinorhyncha (Phylum)	171701
<u>Pycnophyes</u> sp.	Kinorhyncha	Kinorhyncha (Phylum)	171700
<u>Pyramidomonas grossi</u>	Chlorophyta	Protista (Kingdom)	023061
<u>Quinqueloculina seminulum</u>	Sarcomastigophora	Foraminiferida (Order)	060411
<u>Quinqueloculina</u> sp.	Sarcomastigophora	Foraminiferida (Order)	060410
<u>Rathkea octocostatum</u>	Cnidaria	Hydrozoa (Class)	080922
<u>Rathkea octopunctata</u>	Cnidaria	Hydrozoa (Class)	080921
<u>Retusa obtusa</u> (= <u>pertenuis</u>)	Mollusca	Gastropoda (Class)	487711
<u>Retusa</u> sp.	Mollusca	Gastropoda (Class)	487710
<u>Rhachotropis aculeata</u>	Arthropoda	Amphipoda (Order)	436622
<u>Rhachotropis oculata</u>	Arthropoda	Amphipoda (Order)	436621
<u>Rhachotropis tumida</u>	Arthropoda	Amphipoda (Order)	436623

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Rotaliina</u> (Suborder)	Sarcomastigophora	Foraminiferida (Order)	060450
<u>Rotifera</u> (Phylum)		Rotifera (Phylum)	150000
<u>Sabinea septemcarinata</u>	Arthropoda	Decapoda (Order)	457081
<u>Sagitta elegans</u>	Chaetognatha	Chaetognatha (Phylum)	588661
<u>Sagitta maxima</u>	Chaetognatha	Chaetognatha (Phylum)	588662
<u>Sagitta</u> sp.	Chaetognatha	Chaetognatha (Phylum)	588660
<u>Sarsia princeps</u>	Cnidaria	Hydrozoa (Class)	080831
<u>Sarsia</u> sp.	Cnidaria	Hydrozoa (Class)	080830
<u>Sarsia tubulosa</u>	Cnidaria	Hydrozoa (Class)	080833
<u>Scaphocalanus magnus</u>	Arthropoda	Copepoda (Class)	364402
<u>Scatophagidae</u> (Family)	Arthropoda	Insecta (Class)	467275
<u>Schistomeringos caeca</u>	Annelida	Polychaeta (Class)	232711
<u>Schistomeringos</u> sp.	Annelida	Polychaeta (Class)	232710
<u>Schizoporella</u> sp.	Bryozoa	Bryozoa (Phylum)	558460
<u>Schroederia</u> sp.	Chlorophyta	Protista (Kingdom)	023070
<u>Sciaridae</u> (Family)	Arthropoda	Insecta (Class)	467264
<u>Scolecithricella minor</u>	Arthropoda	Copepoda (Class)	364411
<u>Scolecoides arcticus</u>	Annelida	Polychaeta (Class)	232721
<u>Scoloplos</u> sp. cf. <u>pugettensis</u>	Annelida	Polychaeta (Class)	232730
<u>Semibalanus balanoides</u>	Arthropoda	Cirripedia (Class)	385301
<u>Serripes groenlandicus</u>	Mollusca	Bivalvia (Class)	518121
<u>Serripes</u> sp.	Mollusca	Bivalvia (Class)	518120
<u>Sertularia plumosa</u>	Cnidaria	Hydrozoa (Class)	080851
<u>Sertularia</u> sp.	Cnidaria	Hydrozoa (Class)	080850
<u>Simuliidae</u> (Family)	Arthropoda	Insecta (Class)	467274
<u>Sinistrella verruca</u>	Annelida	Polychaeta (Class)	232881
<u>Sipuncula</u> (Phylum)		Sipuncula (Phylum)	200000
<u>Socarnes bidenticulatus</u>	Arthropoda	Amphipoda (Order)	436771
<u>Solaster papposus</u>	Echinodermata	Stellerioidea (Class)	608831
<u>Sosane sulcata</u>	Annelida	Polychaeta (Class)	232851
<u>Sphaerodoropsis minuta</u>	Annelida	Polychaeta (Class)	232831
<u>Sphaerodoropsis</u> sp.	Annelida	Polychaeta (Class)	232830
<u>Spinocalanus longicornis</u>	Arthropoda	Copepoda (Class)	364421
<u>Spinocalanus magnus</u>	Arthropoda	Copepoda (Class)	364422
<u>Spirontocaris phippsi</u>	Arthropoda	Decapoda (Order)	457091
<u>Spirontocaris</u> sp.	Arthropoda	Decapoda (Order)	457090
<u>Staphylinidae</u> (Family)	Arthropoda	Insecta (Class)	467333
<u>Stauroneis</u> cf. <u>linearis</u>	Chrysophyta	Protista (Kingdom)	021271
<u>Stauroneis quadripedis</u>	Chrysophyta	Protista (Kingdom)	021272
<u>Stauroneis septentrionalis</u>	Chrysophyta	Protista (Kingdom)	021273
<u>Stauroneis</u> sp.	Chrysophyta	Protista (Kingdom)	021270
<u>Stegocephalus inflatus</u>	Arthropoda	Amphipoda (Order)	436761
<u>Stegophiura nodosa</u>	Echinodermata	Stellerioidea (Class)	608841
<u>Stellerioidea</u> (Class)	Echinodermata	Stellerioidea (Class)	600000
<u>Stenhelia</u> (=Delavalia) sp.	Arthropoda	Copepoda (Class)	364540
<u>Stenodus leucichthys</u>	Chordata	Salmonidae (Family)	779311
<u>Stephanodiscus astraea</u>	Chrysophyta	Protista (Kingdom)	021281
<u>Stichaeidae</u> (Family)	Chordata	Stichaeidae (Family)	840000
<u>Synedra acus</u>	Chrysophyta	Protista (Kingdom)	021291
<u>Synedra camtschatica</u>	Chrysophyta	Protista (Kingdom)	021292
<u>Synedra hyperborea</u>	Chrysophyta	Protista (Kingdom)	021293
<u>Synedra pulchella</u>	Chrysophyta	Protista (Kingdom)	021294
<u>Synedra tabulata</u>	Chrysophyta	Protista (Kingdom)	021295
<u>Synedra tabulata</u> var. <u>fasciculata</u>	Chrysophyta	Protista (Kingdom)	021296
<u>Synidotea bicuspidata</u>	Arthropoda	Isopoda (Order)	425831
<u>Syrrhoe crenulata</u>	Arthropoda	Amphipoda (Order)	436671
<u>Tabellaria flocculosa</u>	Chrysophyta	Protista (Kingdom)	021301
<u>Tachyrhynchus erosus</u>	Mollusca	Gastropoda (Class)	487731
<u>Tanaidacea</u> (Order)	Arthropoda	Tanaidacea (Order)	400000
<u>Tanastylidae</u> (Family)	Arthropoda	Pycnogonidae (Class)	343770
<u>Tardigrada</u> (Phylum)		Tardigrada (Phylum)	470000
<u>Tegella armifera</u>	Bryozoa	Bryozoa (Phylum)	558411

Table 4. List of scientific names of all organisms identified under NOGAP Subprojects B.2.1 and B.2.3, 1984 to 1988, (CONTINUED).

Specimen Name	Phylum	Taxonomic Group	Species Code
<u>Tegella</u> sp.	Bryozoa	Bryozoa (Phylum)	558410
<u>Temora longicornis</u>	Arthropoda	Copepoda (Class)	3644671
<u>Temorites</u> sp.	Arthropoda	Copepoda (Class)	364440
<u>Terebellides stroemi</u>	Annelida	Polychaeta (Class)	232781
Textulariina (Suborder)	Sarcomastigophora	Foraminiferida (Order)	060460
<u>Thalassionema nitzschoides</u>	Chrysophyta	Protista (Kingdom)	021311
<u>Thalassiosira baltica</u>	Chrysophyta	Protista (Kingdom)	021321
<u>Thalassiosira gravida</u>	Chrysophyta	Protista (Kingdom)	021322
<u>Thalassiosira lacustris</u>	Chrysophyta	Protista (Kingdom)	021323
<u>Thalassiosira nordenskiöldii</u>	Chrysophyta	Protista (Kingdom)	021324
<u>Thalassiothrix frauenfeldii</u>	Chrysophyta	Protista (Kingdom)	021331
<u>Thalassiothrix longissima</u>	Chrysophyta	Protista (Kingdom)	021332
<u>Tharyx</u> sp.	Annelida	Polychaeta (Class)	232790
<u>Thisbe furcata</u>	Arthropoda	Copepoda (Class)	364451
<u>Thisbe</u> sp.	Arthropoda	Copepoda (Class)	364450
Thripidae (Family)	Arthropoda	Insecta (Class)	467420
<u>Thysanoessa inermis</u>	Arthropoda	Euphausiacea (Order)	446951
<u>Thysanoessa raschii</u>	Arthropoda	Euphausiacea (Order)	446953
<u>Thysanoessa</u> sp.	Arthropoda	Euphausiacea (Order)	446950
Tintinnida (Order)	Ciliophora	Ciliophora (Phylum)	040100
<u>Tiphys</u> sp.	Arthropoda	Acari (Order)	333450
Tipulidae (Family)	Arthropoda	Insecta (Class)	467271
Trachyleberididae (Family)	Arthropoda	Ostracoda (Class)	353920
Trichoptera (Order)	Arthropoda	Insecta (Class)	467380
<u>Trichotropis bicarinata</u>	Mollusca	Gastropoda (Class)	487741
<u>Trichotropis borealis</u>	Mollusca	Gastropoda (Class)	487742
<u>Trichotropis</u> sp.	Mollusca	Gastropoda (Class)	487740
<u>Triglops nybelini</u>	Chordata	Cottidae (Family)	809451
<u>Triglops pingeli</u>	Chordata	Cottidae (Family)	809452
<u>Triglops</u> sp.	Chordata	Cottidae (Family)	809450
<u>Trochochaeta carica</u>	Annelida	Polychaeta (Class)	232801
<u>Tubificoides cuspidetosus</u>	Annelida	Oligochaeta (Class)	313271
<u>Tubificoides</u> sp.	Annelida	Oligochaeta (Class)	313270
<u>Unionicola crassipes laurentia</u>	Arthropoda	Acari (Order)	333461
<u>Unionicola</u> sp.	Arthropoda	Acari (Order)	333460
<u>Urasterias linckii</u>	Echinodermata	Stelleroidea (Class)	608851
<u>Volutopsius</u> sp.	Mollusca	Gastropoda (Class)	487750
<u>Weyprechtia heuglini</u>	Arthropoda	Amphipoda (Order)	436701
<u>Zaus</u> sp.	Arthropoda	Copepoda (Class)	364510

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