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BENTHONIC FORAMINIFERA, SOUTHEASTERN BEAUFORT SEA

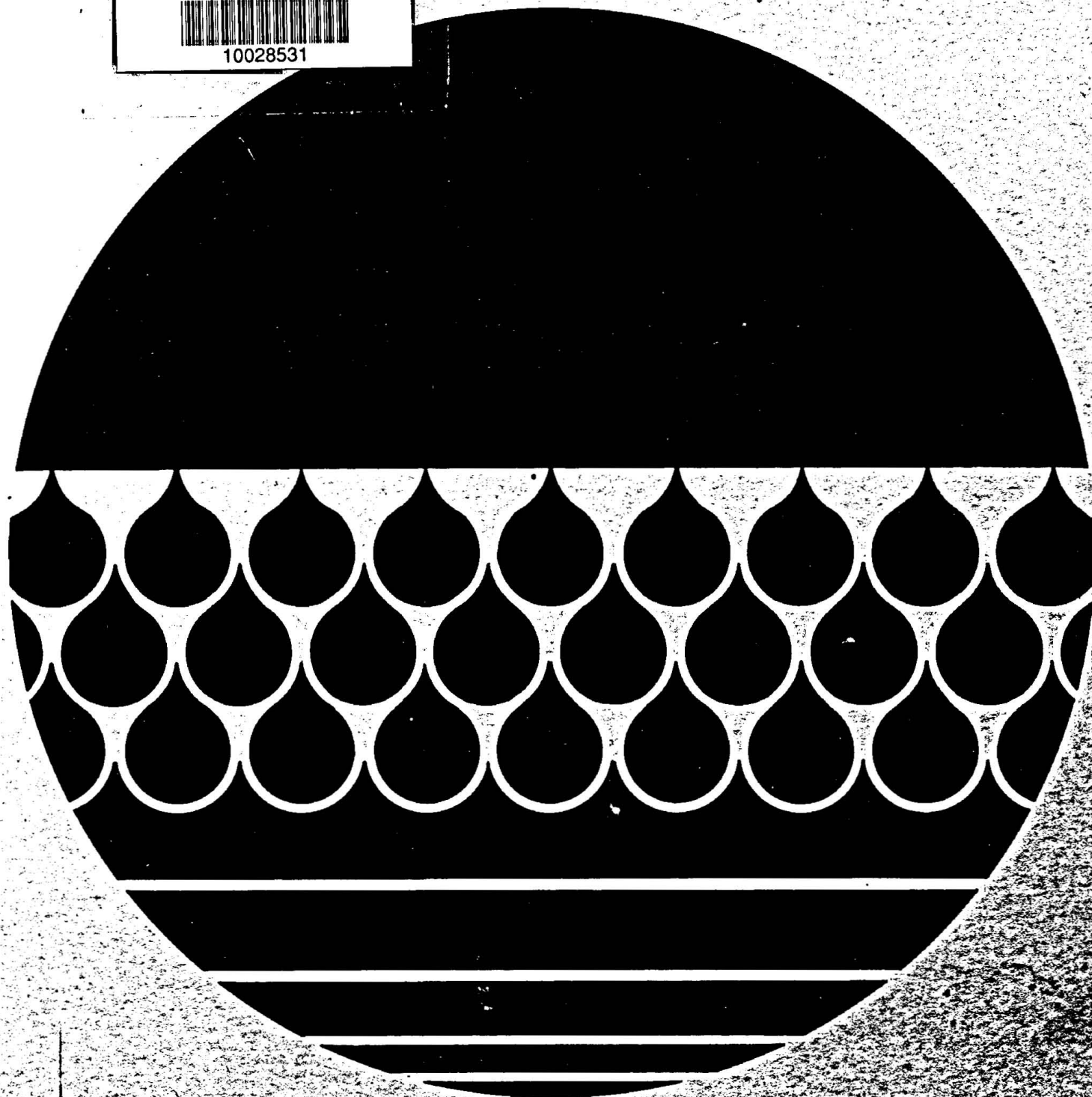
F.J.E. WAGNER

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BENTHONIC FORAMINIFERA, SOUTHEASTERN BEAUFORT SEA

by

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TABLE OF CONTENTS

	Page
INTRODUCTION .....	1
(en français) .....	3
FAUNAL REFERENCE LIST .....	4
SPECIES OCCURRENCES, C.S.S. HUDSON COLLECTIONS .....	14
C.S.S. RICHARDSON COLLECTIONS .....	27
HELICOPTER OPERATION COLLECTIONS .....	34
Figure 1 - Index map showing area of study .....	2

## INTRODUCTION

Benthonic foraminifera have been identified from 198 grab samples collected from the southeastern Beaufort Sea area bounded by latitudes  $68^{\circ}45'N$  and  $71^{\circ}34'N$  and longitudes  $128^{\circ}19'W$  and  $140^{\circ}37'W$  (Fig. 1). Ninety-seven and 56 samples were from cruises by C.S.S. HUDSON and C.S.S. RICHARDSON respectively, both in the late summer of 1970; 45 samples were obtained during a helicopter operation in the spring of 1971. The RICHARDSON and helicopter operation stations are in shallow, nearshore areas, whereas the HUDSON stations, although mainly on the shelf, cover a depth range from 15 to 1426 metres.

One hundred and twenty-two species have been recognized. Identifications were made by F.E. Cole and F.J.E. Wagner. In the following listing, stations are arranged in numerical order by operation, and species are arranged in order of abundance, both areally and within the individual sample. For example, members of the *Elphidium incertum/clavatum* complex which appear at the top of the list, are of widespread occurrence throughout the area and are also dominant constituents at a majority of the stations. Rare species appear towards the bottom of the list. The total number of specimens counted from each sample (not from a standardized amount of material) is recorded, and the percentage occurrence of each species within a sample is given.

A faunal reference list is appended.

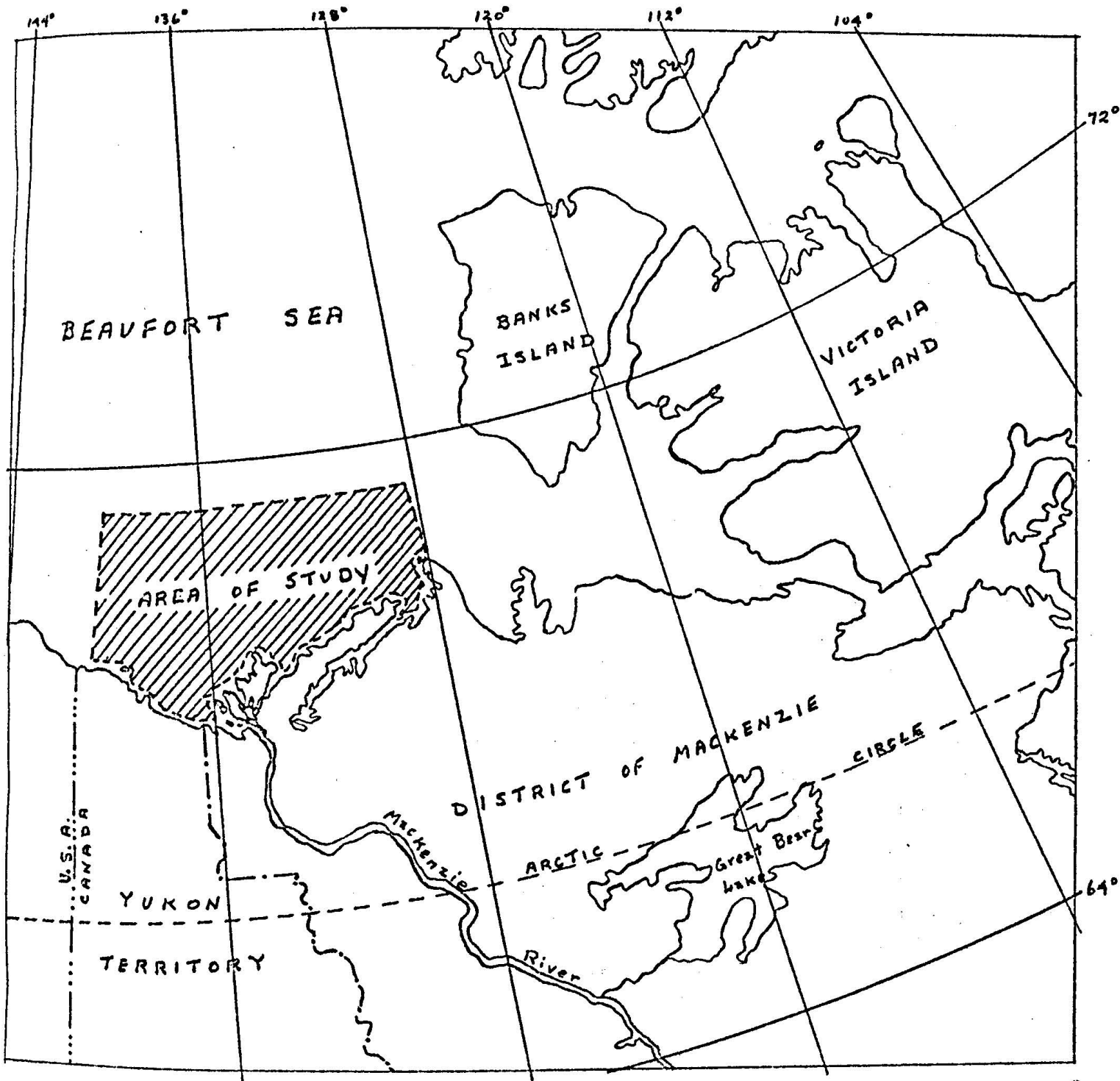


Figure 1 - Index map showing area of study.

## INTRODUCTION

Des foraminifères benthoniques ont été identifiés dans 198 échantillons recueillis par collecteur de fond dans le secteur de la mer de Beaufort compris entre les latitudes de  $68^{\circ}45'N$  et  $71^{\circ}34'N$  et les longitudes  $128^{\circ}19'0$  et  $140^{\circ}37'0$  (Fig. 1). Quatre-vingt-dix-sept échantillons ont été recueillis durant la croisière du N.S.C. HUDSON et 56 au cours de celle du N.S.C. RICHARDSON, vers la fin de l'été de 1970; 45 échantillons ont été obtenus au moyen d'opérations menées par hélicoptère au printemps de 1971. Les postes d'échantillonnage du RICHARDSON et des hélicoptères étaient situés dans les eaux peu profondes près de la côte, alors que ceux du HUDSON, tout en se trouvant pour la plupart sur le plateau, recouvrent une gamme allant de 15 jusqu'à 1426 mètres de profondeur.

Cent-vingt-deux espèces ont été identifiées par F.E. Cole et F.J.E. Wagner. Dans la liste suivante, les postes sont rangés par ordre numérique pour chaque opération, et les espèces par ordre d'abondance à la fois par secteur et par échantillon particulier. Par exemple, les membres du complexe *Elphidium incertum/clavatum*, qui figurent en tête de la liste, sont largement répandus partout dans le secteur et constituent aussi l'élément principal dans un grand nombre de postes. Les espèces rares figurent vers le bas de la liste. On inscrit le nombre total de spécimens relevés dans chaque échantillon (non pas d'une quantité normalisée de matériau) et on indique le pourcentage de présence de chaque espèce dans les échantillons.

Une liste de référence de la faune est annexée.

FAUNAL REFERENCE LIST

- Ammodiscus catinus* Höglund - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 9, p. 398, pl. 2, figs. 3, 4.  
= *A. catinus* Höglund, 1947, Zool. Bidrag Uppsala, vol. 26, p. 122.
- Ammotium cassis* (Parker) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 33, pl. 2, figs. 12-18.  
= *Lituola cassis* Parker, 1870, in Dawson, Can. Nat., n.s., vol. 5, pp. 177, 180, fig. 3.
- Anomalina globulosa* Chapman & Parr - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Soc. Denmark, vol. 21, pt. 2-3, p. 258, pl. 9, figs. 1-3.  
= *A. globulosa* Chapman & Parr, 1937, Australasian Antarctic Exped. 1911-1914, Sci. Repts., Ser. C, vol. 1, pt. 2, p. 117, fig. 27.
- Astacolus crepidulus* (Fichtel & Moll) - Barker, 1960, Soc. Econ. Paleon. & Min., Spec. Publ. 9, p. 142, pl. 67, fig. 20; pl. 68, figs. 1, 2.  
= *Nautilus crepidula* Fichtel & Moll, 1798, Testacea Microscopica....., p. 107, pl. 19, figs. g-i.
- Astacolus hyalacerulus* Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 52, pl. 9, figs. 1-4.
- Astrononion gallowayi* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, p. 90, pl. 17, figs. 4-7.
- Astrorhiza limicola* Sandahl - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 19, figs. 1-4.  
= *A. limicola* Sandahl, 1858, K. Vet.-Akad. Förb., Öfvers., årg. 14, p. 301, pl. 3, figs. 5, 6.
- Biloculinella inflata* (Wright) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 267, pl. 7, figs. 11, 12.  
= *Biloculina inflata* Wright, 1902, Proc. Liverpool Geol. Soc., pt. 2, vol. 9, p. 183, pl. 13, figs. 1-4.
- Bolivina inflata* Heron-Allen & Earland - Heron-Allen & Earland, 1913, Roy. Irish Acad., Proc., vol. 31, pt. 64, p. 68.
- Bolivina pseudopunctata* Höglund - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 111, pl. 20, figs. 13, 14.  
= *B. pseudopunctata* Höglund, 1947, Zool. Bidrag Uppsala, vol. 26, p. 273, pl. 24, fig. 5; pl. 32, figs. 23, 24; text figs. 280, 281, 287.
- Buccella frigida* (Cushman) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 115, pl. 22, figs. 2, 3.  
= *Pulvinulina frigida* Cushman, 1922, Contrib. Can. Biol., no. 9, p. 12.



- Buccella inusitata* Andersen - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 116, pl. 22, fig. 1.  
= *B. inusitata* Andersen, 1952, Jour. Washington Acad. Sci., vol. 42, no. 5, p. 148, figs. 10a-11c.
- Bulimina marginata* d'Orbigny - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Soc. Denmark, vol. 21, pt. 2-3, p. 235, pl. 6, figs. 17-20.  
= *B. marginata* d'Orbigny, 1826, Ann. Sci. Nat. Paris, ser. 1, vol. 7, p. 269, pl. 12, figs. 10-12.
- Cassidella complanata* (Egger) - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, p. 417, pl. 6, figs. 2a, b. [as *Virgulina complanata*]  
= *Virgulina schreibersiana* Czjzek var. *complanata* Egger, 1895, K. Bayer. Akad. Wiss., Math.-Phys. Cl., Abk., vol. 18, pt. 2, p. 192, pl. 8, figs. 91, 92.
- Centropyxis arenatus* (Cushman) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 217, pl. 1, figs. 8-10.
- Cibicides lobatulus* (Walker & Jacob) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 339, pl. 19, figs. 1-3.  
= *Nautilus lobatulus* Walker & Jacob, 1798, in G. Adams, Essays on the Microscope, p. 642, pl. 14, fig. 36.
- Cribrostomoides crassimargo* (Norman) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 29, pl. 3, figs. 1-3 [as *Alveolophragmium crassimargo*]  
= *Haplophragmium crassimargo* Norman, 1892, Museum Normanianum, pt. 8, p. 17.
- Cyclogyra foliacea* (Philippi) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 245, pl. 4, fig. 8.  
= *Orbis foliaceus* Philippi, 1844, Enumeration Moll. Siciliae, vol. 2, p. 147, pl. 24, fig. 26.
- Cyclogyra involvens* (Reuss) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 246, pl. 4, fig. 9.  
= *Operculina involvens* Reuss, 1850, Denkschr. Akad. Wiss. Wien, vol. 1, p. 370, pl. 46, fig. 30.
- Dentalina baggi* Galloway & Wissler - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 54, pl. 9, figs. 10-15.  
= *D. baggi* Galloway & Wissler, 1927, Jour. Paleo., vol. 1, p. 49, pl. 8, figs. 14, 15.
- Dentalina frobisherensis* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 55, pl. 10, figs. 1-9.
- Dentalina ittai* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 56, pl. 10, figs. 10-12.
- Dentalina pauperata* d'Orbigny - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 57, pl. 9, figs. 7-9.  
= *D. pauperata* d'Orbigny, 1846, Foraminifères fossiles.... Vienne...., p. 46, pl. 1, figs. 57-58.

- Eggerella advena* (Cushman) - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 36, pl. 3, figs. 8-10.  
= *Verneuilina advena* Cushman, 1922, *Contr. Can. Biol.*, no. 9, p. 141.
- Elphidiella arctica* (Parker & Jones) - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 106, pl. 20, figs. 1-3.  
= *Polystomella arctica* Parker & Jones, 1864, in Brady, *Trans. Linn. Soc. London, Zool.*, vol. 24, p. 471, pl. 48, fig. 18.
- Elphidium groenlandica* (Cushman) - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 102, pl. 19, figs. 13, 14.  
= *Elphidium groenlandicum* Cushman, 1933, *Smiths. Misc. Coll.*, vol. 89, no. 9, p. 4, pl. 1, fig. 10.
- Elphidium bartletti* Cushman - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 96, pl. 18, figs. 10-14.  
= *E. bartletti* Cushman, 1933, *Smiths. Misc. Coll.*, vol. 89, no. 9, p. 4, pl. 1, fig. 9.
- Elphidium incertum* (Williamson) - Feyling-Hanssen, 1964, *Norges Geol. Undersökelse*, no. 225, p. 344, pl. 19, figs. 16, 17; pl. 20, figs. 9, 10.  
= *Polystomella umbilicatula* var. *incerta* Williamson, 1858, *Ray Soc.*, London, p. 44, pl. 3, fig. 82a.
- Elphidium incertum clavatum* Cushman - Feyling-Hanssen, 1964, *Norges Geol. Undersökelse*, no. 225, p. 345, pl. 20, figs. 11-15.  
= *E. incertum clavatum* Cushman, 1930, *U.S. Nat. Mus.*, Bull. 104, pt. 7, p. 20, pl. 7, fig. 10.
- Elphidium subarcticum* Cushman - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 105, pl. 19, figs. 5-7.  
= *E. subarcticum* Cushman, 1944, *Cushman Lab. Foram. Res. Spec. Publ.* 12, p. 27, pl. 3, figs. 34, 35.
- Eoeponidella pulchella* (Parker) - Parker, 1952, *Bull. Mus. Comp. Zool.*, vol. 106, no. 9, p. 420, pl. 6, figs. 18-20 [as *Prinaella* (?) *pulchella*].  
[*Eopninaella pulchella* in the computer print-out is a synonym].
- Esosyrinx curta* (Cushman & Ozawa) - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 85, pl. 15, figs. 1-5.  
= *Pseudopolymorphina curta* Cushman & Ozawa, 1930, *Proc. U.S. Nat. Mus.*, vol. 77, art. 6, p. 105, pl. 27, figs. 3a, b.
- Fissurina cucurbitasema* Loeblich & Tappan - Loeblich & Tappan, 1953, *Smiths. Coll.*, vol. 121, no. 7, p. 76, pl. 14, figs. 10, 11.
- Fissurina laevigata* Reuss - Feyling-Hanssen, 1964, *Norges Geol. Undersökelse*, no. 225, p. 314, pl. 15, figs. 17, 18.  
= *F. laevigata* Reuss, 1850, *Denkschr. Akad. Wiss. Wien*, vol. 1, p. 366, pl. 46, fig. 1.
- Fissurina lucida* (Williamson) - Loeblich & Tappan, 1953, *Smiths. Misc. Coll.*, vol. 121, no. 7, p. 76, pl. 14, fig. 4.  
= *Entosolenia marginata* (Montagu) var. *lucida* Williamson, 1848,

- Fissurina marginata* (Montagu) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 77, pl. 14, figs. 6-9.  
= *Vermiculium marginatum* Montagu, 1803, Testacea Britannica, p. 524.
- Fissurina semimarginata* (Reuss) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 78, pl. 14, fig. 3.  
= *Lagena marginata* Williamson var. *semimarginata* Reuss, 1870, Sitzb. Akad. Wiss. Wien, vol. 62, pt. 1, p. 468.
- Fissurina serrata* (Schlumberger) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 78, pl. 14, fig. 5.  
= *Lagena serrata* Schlumberger, 1894, Mém. Soc. Zool. France, vol. 7, p. 258, pl. 3, fig. 7.
- Fissurina ventricosa* (Wiesner) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 79, pl. 14, fig. 15.  
= *Lagena (Entosolenia) marginata* var. *ventricosa* Wiesner, 1931, Deutsche Südpolar - Exped., 1901-1903, vol. 20 (Zoology, vol. 12), p. 120, pl. 19, fig. 222.
- Gordiospira arctica* Cushman - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 49, pl. 7, figs. 1-3.  
= *G. arctica* Cushman, 1933, Smiths. Misc. Coll., vol. 89, no. 9, p. 3, pl. 1, figs. 5-7.
- Guttulina lactea* (Walker & Jacob) - Feyling-Hanssen, 1964, Norges Geol. Undersøkelse, no. 225, p. 297, pl. 12, figs. 12-14.  
= *Serpula lactea* Walker & Jacob, 1798, in Adams: Essays on the Microscope, p. 634, pl. 14, fig. 4.
- Hyperammina elongata* Brady - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 19, pl. 1, fig. 6.  
= *H. elongata* Brady, 1878, Ann. Mag. Nat. Hist., ser. 5, vol. 1, p. 433, pl. 20, figs. 2a, b.
- Hyperammina friabilis* Brady - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 23, figs. 1-3, 5, 6.  
= *H. friabilis* Brady, 1884, Rept. Voy. Challenger, Zool., pt. 22, vol. 9, p. 258, pl. 23, figs. 1-3, 5, 6.
- Involutina intermedia* (Höglund) - Höglund, 1947, Zool. Bidrag, Uppsala, vol. 26, p. 126, pl. 28, figs. 9, 10; text fig. 93a, b [as *Ammodiscus intermedius*].
- Islandiella islandica* (Nørvang) - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Soc., Denmark, vol. 21, pt. 2-3, p. 247, pl. 7, figs. 22-25.  
= *Cassidulina islandica* Nørvang, 1945, The Zoology of Iceland, Foraminifera, vol. 2, pt. 2, p. 42, fig. 7.
- Islandiella norcrossi* (Cushman) - Feyling-Hanssen, 1964, Norges Geol. Undersøkelse, no. 225, p. 325, pl. 16, fig. 20; pl. 17, fig. 1  
= *Cassidulina norcrossi* Cushman, 1933, Smiths. Misc. Coll., vol. 89, p. 7, pl. 2, fig. 7.

- Islandiella teretis* (Tappan) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 326, pl. 16, fig. 17.  
= *Cassidulina teretis* Tappan, 1951, Contr. Cushman Found. Foram. Res., vol. 1, p. 7, pl. 1, fig. 30
- Lagena flatulenta* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 60, pl. 11, figs. 9, 10.
- Lagena gracillima* (Seguenza) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 60, pl. 11, figs. 1-4.  
= *Amphorina gracillima* Seguenza, 1862, Descrizione dei foraminiferi.....Messina....., Diss. 2, p. 51, pl. 1, fig. 37.
- Lagena laevis* (Montagu) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 61, pl. 11, figs. 5-8.  
= *Vermiculum laeve* Montagu, 1803, Testacea Britannica, p. 524.
- Lagena mollis* Cushman - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 63, pl. 11, figs. 25-27.  
= *Lagena gracillima* (Seguenza) var. *mollis* Cushman, 1944, Cushman Lab. Foram. Res. Spec. Publ. 12, p. 21, pl. 3, fig. 3.
- Lagena nodulosa* - should be *Lagena nebulosa* Cushman - Vilks, 1969, Micro-paleontology, vol. 15, no. 1, p. 48, pl. 2, fig. 21.  
= *L. laevis* (Montagu) var. *nebulosa* Cushman, 1923, U.S. Nat. Mus., vol. 104, pt. 4, p. 29, pl. 5, figs. 4, 5.
- Lagena semilineata* Wright - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 65, pl. 11, figs. 14-22.  
= *L. semilineata* Wright, 1886, Proc. Belfast Nat. Field Club, n.s., vol. 1, app. 9, p. 320, pl. 26, fig. 7.
- Laryngosigma hyalascidia* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 83, pl. 15, figs. 6-8.
- Melonis zaandami* (van Voorthuysen) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 87, pl. 16, figs. 11, 12 [as *Nonion zaandamae*].  
= *Anomalinoidea barleeaanum* (Williamson) var. *zaandamae* van Voorthuysen, 1952, Jour. Paleo., vol. 26, no. 4, p. 681.
- Miliammina fusca* (Brady) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 224, pl. 2, figs. 1, 2.  
= *Quinqueloculina fusca* Brady, 1870, in Brady & Robertson, Ann. Mag. Nat. Hist., no. 34, ser. 4, vol. 6, p. 286, pl. 11, fig. 2.
- Miliolinella chukchiensis* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 47, pl. 6, fig. 7.
- Miliolinella subrotunda* (Montagu) - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Geol. Soc. Denmark, vol. 21, pt. 2-3, p. 197, pl. 2, figs. 10-12.  
= *Vermiculum subrotundum* Montagu, 1803, Testacea Britannica, pt. 2, p. 521.

- Nonion depressulus* (Walker & Jacob) - Walker & Jacob, 1798, in Kanmacher, Adam's Essays on the microscope, ed. 2, p. 641, pl. 14, fig. 33 [as *Nautilus depressulus*].
- Nonionella auricula* Heron-Allen & Earland - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 92, pl. 16, figs. 6-10.  
= *N. auricula* Heron-Allen & Earland, 1930, Jour. Roy. Micr. Soc., vol. 50, p. 192, pl. 5, figs. 68-70.
- Nonionellina labradorica* (Dawson) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 86, pl. 17, figs. 1, 2 [as *Nonion labradoricum*].  
= *Nonionina labradorica* Dawson, 1860, Can. Nat., vol. 5, p. 191, fig. 4.
- Oolina costata* (Williamson) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 68, pl. 13, figs. 4-6 [now referred to *Oolina borealis* Loeblich & Tappan].  
= *Entosolenia costata* Williamson, 1858, Recent Foraminifera of Great Britain, p. 9, pl. 1, fig. 18.
- Oolina globosa* (Montagu) - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 56, figs. 1-3.  
= *Vermiculum globosum* Montagu, 1803, Testacea Britannica, p. 523.
- Oolina lineata* (Williamson) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 70, pl. 13, figs. 11-13.  
= *Entosolenia lineata* Williamson, 1848, Ann. Mag. Nat. Hist., ser. 2, vol. 1, p. 18, pl. 2, fig. 18.
- Oolina melo* d'Orbigny - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 71, pl. 12, figs. 8-15.  
= *O. melo* d'Orbigny, 1839, Voyage dans l'Amérique méridionale, Foraminifères, vol. 5, pt. 5, p. 20, pl. 5, fig. 9.
- Parafissurina follicula* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 79, pl. 14, fig. 16.
- Parafissurina fusuliformis* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 79, pl. 14, figs. 18, 19.
- Parafissurina himatiostoma* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 80, pl. 14, figs. 12-14.
- Patellina corrugata* Williamson - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 114, pl. 21, figs. 4, 5.  
= *P. corrugata* Williamson, 1858, Recent Foraminifera of Great Britain, p. 46, pl. 3, figs. 86-89.
- Pateoris hauerinoides* (Rhumbler) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 42, pl. 6, figs. 8-12; text figs. 1A, B.  
= *Quinqueloculina subrotunda* (Montagu) forma *hauerinoides* Rhumbler, 1936, Foram. der Kieler Bucht, Teil II, vol. 1, no. 1, pp. 206, 217, 226, text figs. 167, 208-212.

- Pelosinella didera* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 16, pl. 1, fig. 2.
- Planispirinoides bucculentus* (Brady) - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 114, fig. 3.  
= *Miliolina bucculenta* Brady, 1884, Rept. Voy. Challenger, Zool., vol. 9, p. 170, pl. 114, fig. 3.
- Protelphidium orbiculare* (Brady) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 349, pl. 21, fig. 3.  
= *Nonionina orbicularis* Brady, 1881, Denkschr. Akad. Wiss. Wien, vol. 43, p. 415, pl. 21, fig. 5.
- Pseudopolymorphina novangliae* (Cushman) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 300, pl. 13, fig. 3.  
= *Polymorphina lactea* (Walker & Jacob) var. *novangliae* Cushman, 1923, U.S. Nat. Mus., Bull. 104, pt. 4, p. 146, pl. 39, figs. 6-8.
- Pyrgo subsphaerica* (d'Orbigny) - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 9, p. 405, pl. 3, fig. 17.  
= *Biloculina subsphaerica* d'Orbigny, 1839, in de la Sagre, Histoires physique,....Cuba, vol. 2, p. 162, pl. 8, figs. 25-27.
- Pyrgo williamsoni* (Silvestri) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 48, pl. 6, figs. 1-4.  
= *Biloculina williamsoni* Silvestri, 1923, Atti Accad. Pont. Romana Nuovi Lincei, vol. 76, p. 73.
- Pyrulina cylindroides* (Roemer) - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Soc. Denmark, vol. 21, pt. 2-3, p. 219, pl. 5, figs. 10, 11.  
= *Polymorphina cylindroides* Roemer, 1838, Neues Jahrb. Mineral., p. 385, pl. 3, fig. 26.
- Quinqueloculina agglutinata* Cushman - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 39, pl. 5, figs. 1-4.  
= *Q. agglutinata* Cushman, 1917, U.S. Nat. Mus., Bull. 71, pt. 6, p. 43, pl. 9, fig. 2.
- Quinqueloculina arctica* Cushman - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 40, pl. 5, figs. 11, 12.  
= *Q. arctica* Cushman, 1933, Smiths. Misc. Coll., vol. 89, no. 9, p. 2, pl. 1, figs. 3a-c.
- Quinqueloculina lata* Terquem - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 250, pl. 4, fig. 12.  
= *Q. lata* Terquem, 1876, Essai sur le Classement des Animaux... Dunkerque, pt. 2, p. 82, pl. 11, fig. 8.
- Quinqueloculina nitida* Nørvang - Nørvang, 1945, Zool. of Iceland, vol. 2, pt. 2, p. 7, text fig. 1.
- Quinqueloculina sadkovi* (Bogdanowicz) - Vilks, 1969, Micropaleontology, vol. 15, no. 1, p. 46, pl. 2, figs. 9a, b.  
= *Miliolina sadkovi* Bogdanowicz, 1946, in Stschedrina, Trudy, vol. 3, (Biol.), p. 142, pl. 3, fig. 15.

- Quinqueloculina seminulum* (Linné) - Feyling-Hanssen, 1964, Norges Geol. Undersøkelse, no. 225, p. 251, pl. 6, fig. 1.  
= *Serpula seminulum* Linné, 1767, Systema Naturae, ed. 12, p. 1264.
- Quinqueloculina stalkerii* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 40, pl. 5, figs. 5-9.
- Recurvoides contortus* Earland, 1934, Discovery Repts., vol. 10, p. 91, pl. 10, figs. 7-19.
- Recurvoides turbinatus* (Brady) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 27, pl. 2, fig. 11.  
= *Haplophragmium turbinatum* Brady, 1881, Quart. Jour. Micr. Soc., n.s., vol. 21, p. 50.
- Reophax curtus* Cushman - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 22, pl. 2, figs. 1-4.  
= *R. curtus* Cushman, 1920, U.S. Nat. Use., Bull. 104, pt. 2, p. 8, pl. 2, figs. 2, 3 [now considered to be a synonym of *Reophax fusiformis* (Williamson)].
- Reophax fusiformis* (Williamson) - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 30, figs. 7-11.  
= *Proteonina fusiformis* Williamson, 1858, Recent Foram. Great Britain, p. 1, pl. 1, fig. 1.
- Reophax guttifer* (Brady) - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 31, figs. 10-15.  
= *Lituola (Reophax) guttifer* Brady, 1881, K. Akad. Wiss. Wien, Denkschr., vol. 43, p. 49.
- Reophax nodulosus* Brady - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 31, figs. 1-9.  
= *R. nodulosus* Brady, 1879, Quart. Jour. Micr. Soc., London, n.s., vol. 19, p. 52, pl. 4, figs. 7, 8.
- Reophax pilulifera* Brady - Feyling-Hanssen, 1964, Norges Geol. Undersøkelse, no. 225, p. 222, pl. 1, fig. 16.  
= *R. pilulifera* Brady, 1884, Rept. Sci. Results Explor. Voy. Challenger 1873-76, Zool., vol. 9, p. 292, pl. 30, figs. 18-20.
- Reophax scorpiurus* Montfort - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 24, pl. 2, figs. 7-10.  
= *R. scorpiurus* Montfort, 1808, Conchyliologie systematique..., vol. 1, p. 330.
- Reophax subfusiformis* Earland - Feyling-Hanssen, 1964, Norges Geol. Undersøkelse, no. 225, p. 223, pl. 1, figs. 12-15.  
= *R. subfusiformis* Earland, 1933, Discovery Rept., vol. 7, p. 74, pl. 2, figs. 16-19.
- Robertinoides charlottensis* (Cushman) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 108, pl. 20, figs. 6, 7.  
= *Cassidulina charlottensis* Cushman, 1925, Contrib. Cushman Lab. Foram. Res., vol. 1, pt. 2, p. 41, pl. 6, figs. 6, 7.

- Rosalina tumida* - synonym of *Rosalina floridana* (Cushman) - Parker, Phleger and Peirson, 1953, Cushman Found. Foram. Res., Spec. Publ. 2, p. 7, pl. 4, figs. 18, 19.  
= *Discorbis floridana* Cushman, 1922, Publ. 311, Carnegie Inst., Washington, p. 39, pl. 5, figs. 11, 12.
- Saccamina atlantica* (Cushman) - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 10, p. 454, pl. 1, figs. 1, 2.  
= *Proteonina atlantica* Cushman, 1944, Cushman Lab. Foram. Res. Spec. Publ. 12, p. 5, pl. 1, fig. 4.
- Saccamina sphaerica* Brady - Barker, 1960, Soc. Econ. Pal. & Min., Spec. Publ. 9, pl. 18, figs. 11-15, 17.  
= *S. sphaerica* Brady, 1884, Rept. Voy. Challenger, Zool., vol. 9, pl. 18, figs. 11, 13, 15.
- Sigmomorphina undulosa* (Terquem) - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 301, pl. 13, figs. 5-8.  
= *Polymorphina undulosa* Terquem, 1878, Mem. Soc. Geol. de France, ser. 3, vol. 1, p. 41, fig. 35.
- Silicosigmoilina groenlandica* (Cushman) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 38, pl. 4, figs. 7-9.  
= *Quinqueloculina fusca* Brady var. *groenlandica* Cushman, 1933, Smiths. Misc. Coll., vol. 89, no. 9, p. 2, pl. 1, fig. 4.
- Spirillina vivipara* Ehrenberg - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 112, pl. 21, figs. 2, 3.  
= *S. vivipara* Ehrenberg, 1843, Abh. Akad. Wiss. Berlin (Jahrg. 1841), pt. 1, pp. 323, 422, pl. 3, VII, fig. 41.
- Spiroplectammina biformis* (Parker & Jones) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 34, pl. 4, figs. 1-6.  
= *Textularia agglutinans* d'Orbigny var. *biformis* Parker & Jones, 1865, Philos. Trans. Roy. Soc. London, vol. 155, p. 370, pl. 15, figs. 23, 24.
- Textularia earlandi* Phleger - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 238, pl. 3, figs. 9, 10.  
= *T. earlandi* Phleger, 1952, Contr. Cushman Found. Foram. Res., vol. 3, p. 86, pl. 13, figs. 22, 23.
- Textularia torquata* F. Parker - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 35, pl. 2, figs. 19-21.  
= *T. torquata* F. Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 9, p. 403, pl. 3, figs. 9-11.
- Thalmannammina parkerae* (Uchio) - Uchio, 1960, Cushman Found. Foram. Res., Spec. Publ. 5, p. 53 [as *Recurvoidella parkerae*].
- Trifarina fluens* (Todd) - Feyling-Hanssen *et al.*, 1971, Bull. Geol. Soc. Denmark, vol. 21, pt. 2-3, p. 242, pl. 7, figs. 12-15; pl. 18, fig. 10.  
= *Angulogerina fluens* Todd, 1947, Cushman Lab. Foram. Res., Contr. 23, no. 3, p. 67, pl. 16, figs. 6, 7.



- Triloculina tricarinata* d'Orbigny - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 258, pl. 6, figs. 7, 8.  
= *T. tricarinata* d'Orbigny, 1826, Ann. Sci. Nat., vol. 7, p. 299, no. 7, Modèle no. 94.
- Triloculina trihedra* Loeblich & Tappan - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 45, pl. 4, fig. 10.
- Trochammina lobata* Cushman - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 9, p. 408, pl. 4, figs. 7a, b.  
= *T. lobata* Cushman, 1944, Cushman Lab. Foram. Res., Spec. Publ. 12, p. 18, pl. 2, fig. 10.
- Trochammina macrescens* Brady - Parker, 1952, Bull. Mus. Comp. Zool., vol. 106, no. 9, p. 408, pl. 4, figs. 8a, b.  
= *T. inflata* (Montagu) var. *macrescens* Brady, 1870, Ann. Mag. Nat. Hist., ser. 4, vol. 6, p. 51, pl. 11, figs. 5a-c.
- Trochammina nana* (Brady) - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 50, pl. 8, fig. 5.  
= *Haplophragmium nana* Brady, 1881, Quart. Jour. Micr. Soc., vol. 21, p. 50.
- Trochammina quadriloba* Höglund - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 51, pl. 7, fig. 8.  
= *T. quadriloba* Höglund, 1948, Contr. Cushman Lab. Foram. Res., vol. 24, pt. 2, p. 46.
- Trochammina rotaliformis* Wright - Loeblich & Tappan, 1953, Smiths. Misc. Coll., vol. 121, no. 7, p. 51, pl. 8, figs. 6-9.  
= *T. rotaliformis* Wright, 1911, in Heron-Allen & Earland, Jour. Roy. Micr. Soc., p. 309.
- Trochamminella bullata* Höglund - Höglund, 1947, Zool. Bidrag Uppsala, vol. 26, p. 213, pl. 17, figs. 5a-c; text figs. 194, 195a-c.
- Virgulina schreibersiana* Czjzek - Feyling-Hanssen, 1964, Norges Geol. Undersökelse, no. 225, p. 309, pl. 14, figs. 19-21.  
= *V. schreibersiana* Czjzek, 1848, Haidinger's Nat. wiss. Abh., vol. 2, p. 11, pl. 13, figs. 18-21.

In 9 cases, identifications were possible only to the generic level as follows:-

*Bucella* sp., *Dentalina* sp., *Globulina* sp., *Guttulina* sp.,

*Pandaglandulina* sp., *Pyrgo* sp., *Quinqueloculina* sp., *Triloculina* sp.,

*Trochammina* sp.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 1

STATION	340	341	342	343	344	345	346	347
LATITUDE	69°38'00N	69°45'00N	69°28'00N	69°35'00N	69°00'00N	70°27'50N	70°19'00N	70°12'50N
LONGITUDE	138°45'00W	138°34'00W	138°48'00W	138°24'00W	138°14'00W	138°57'00W	138°47'50W	138°40'00W
WATER DEPTH(M)	47	177	49	124	139	740	539	390
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	78	11	38	35	19	1	10	8
PROTELEPHIDIUM ORBICULARE	6	1	7	5	3		10	1
PSEUDOPOLYMRPHINA NOVANGLIAE			*		1			
BUCCELLA FRIGIDA	3	3	6	7	2		6	2
TROCHAMMINA NANA		15	2	1	6	5	7	36
ISLANDIELLA ISLANDICA*	5	24	30	31	18		24	2
SPIROPECTAMMINA BIFORNIS		2	2	4	5		1	2
ISLANDIELLA TERETIS	1	20	6	4	22		26	5
ELPHIDIELLA GROENLANDICA								
ISLANDIELLA NORCROSSI	1	2	1	2	2			1
CRIBROSTOMOIDES CRASSIMARGO	1	6	1		5	2	3	16
TEXTULARIA EARLANDI		*	*	1	2		1	3
BUCCELLA INUSITATA		*					1	
SILICOSIGMULINA GROENLANDICA		*	*	1	*			
CASSIDELLA COMPLANATA		3	4	3	6		2	
ELPHIDIUM SUBARCTICUM				*				
QUINQUELOCULINA SEMINULUM	1					1		
RECURVOIDES TURBINATUS		1			*	1	1	
ELPHIDIUM BARTIETTI								
REOPHAX CURTUS				*	*	6	1	1
GUTTULINA LACTEA					*			
LARYNGOSIGMA NYALASCIDIA				*				
CIBICIDES LOBATULUS	3	7		2	1		2	1
VINSULINA SCHREIBERSIANA								
MELONIS ZAANDAMI		2			*	1		3
REOPHAX PILULIFERA					*			1
PARAFISSURINA HIMATIOSTOMA					*			
ASTRONOTON GALLOWAYI	1	*		1	1		1	10
CYCLOGYRA INVOLVENS					*			
TEXTULARIA TORQUATA								
HYPERAMMINA ELONGATA					*	9		5
LAGENA GRACILLIMA								
REOPHAX NODULOSUS						27		1
EDEPONIDELLA PULCHELLA							1	
NONIONELLINA LABRADORICA				*	2		1	
TROCHAMMINA QUADRILoba								1
PYRGO WILLIAMSONI		*	*		1		1	
QUINQUELOCULINA STALKEPI					*			
RECURVOIDES CONTORTUS		1				47		
SACCAMMINA ATLANTICA	1							
TRILOCULINA TRIHEDRA			1					
HYPERAMMINA FRIABILIS								
SIGMONDRPHINA UNDULOSA			*					
ESOSYRIX CURTA	1							
ROBERTINOIDES CHARLOTTENSIS		1			1			
AMMOTUM CASSIS								1
DENTALINA FROBISHERENS							1	
THALMAMMINA PARKERAE								
BULMINA MARGINATA					*		1	
DENTALINA ITYAI				*				
FISSURINA VENTRICOSA		*		1	*		1	
LAGENA FLATULENTA								
COLINA LINEATA		*						1
REOPHAX GUTTIFER								1
TROCHAMMINELLA BULLATA								
FISSURINA MARGINATA	1			*	*			1
GOMDIOSPIRA ARCTICA				*				
LAGENA MOLLIS								
QUINQUELOCULINA AGGLUTINATA								
TRIFARINA FLUENS								
EGGERHELLA ADVENA		*						
FISSURINA SEHRATA					*			
GLOBULINA SP.					*			
COLINA MELO					*			
REOPHAX SCORPIURUS					*			
REOPHAX SUBFUSIFORMIS					1			
SACCAMMINA SPHAERICA					*			
TROCHAMMINA SP.					*			
BOLIVINA INFLATA			*					
BOLIVINA PREGUOPUNCTATA					*			
PELOSINELLA DIDERA		1						
CENTROPYXIS AENATUS								
GUTTULINA SP.			1					
LAGENA LAEVIS								
COLINA COSTATA	1				*			
PANDACLANDULINA SP.					*			
PARAFISSURINA FOLLICULA					*			
PYRGO SP.					*			
TRILOCULINA TRICAPINATA					1			
FATEORIS HAUCHINOIDES					*			
FISSURINA SEMIMARGINATA					*			
TOTAL COUNT	198	426	255	345	530	86	190	154

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 2

STATION	348	349	350	351	352	354	355	356
LATITUDE	700650N	695750N	695050N	695600N	695320N	702200N	701550N	700840N
LONGITUDE	1383100W	1382700W	1381800W	1385480W	1390500W	1390550W	1391230W	1391590W
WATER DPTH(M)	290	250	198	187	60	610	451	211
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	8	1	4	8	1	1	1	15
PROTOLPHIDIUM ORBICULARE	*	*		5	1	1		1
PSEUDOPOLYMRPHINA NOVANGLIAE	*			1				
BUCCELLA FRIGIDA	7	2	3	3	1			2
TROCHAMMINA NANA	18	44	43	36	33	10	46	18
ISLANDIELLA ISLANDICA	21	2	14	7	1	3		28
SPIROPECTAMMINA BIFORMIS	*		3	7	5		1	1
ISLANDIELLA TERETIS	21	5	6	9	3			3
ELPHIDIELLA GROENLANDICA								
ISLANDIELLA NORCROSSI	4	5	6	5	3			5
CRIBROSTOMOIDES CRASSIMARGO	1	2		3	20	11	13	1
TEXTULARIA EARLANDI	2	2	1	2	1		2	1
BUCCELLA INUSITATA								
SILICOSIGMOILINA GROENLANDICA		*						
CASSIDELLA COMPLANATA	1	1	2	2				4
ELPHIDIUM SUBARCTICUM		*						5
QUINQUELOCULINA SEMINULUM		3						
RECURVOIDES TURBINATUS	5	9	5	4	1	12	9	
ELPHIDIUM BARTLETTI					3	1		
REOPHAX CURTUS	*	3			1	10	6	2
GUTTULINA LACTEA				*				
LARYNGOSIGMA HYALASCIDIA								
CIBICIDES LOBATULUS				1	15			
VIRGULINA SCHREIBERSIANA				1				
MELONIS ZAANDAMI	8	13	10	2	1		1	7
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA								
ASTRONONION GALLOWAYI				*	1			
CYCLOGYRA INVOLVENS		1		*			*	
TEXTULARIA TORQUATA				1				
HYPERAMMINA ELONGATA	*	1			3	12	11	
LAGENA GRACILLIMA		*						
REOPHAX NODULOSUS	1					27	5	
EOEPONIDELLA PULCHELLA								
NONIONELLINA LABRADORICA				*				
TROCHAMMINA QUADRILORA				1				
PYRGO WILLIAMSONI	*	1						3
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS		3				8		2
SACCAMMINA ATLANTICA	*	1	1	*		1	*	
TRILOCULINA TRIHEDRA								
HYPERAMMINA FRIABILIS						2	*	
SIGHOMORPHINA UNDULOSA								
ESOSYRINX CURTA								
ROBERTINOIDES CHARLOTTENSIS			*					1
AMMOTIUM CASSIS								
DENTALINA FROBISHERENIS								
THALMANNAMMINA PARKERAE								
BULIMINA MARGINATA								1
DENTALINA ITTAI		*	*					
FISSURINA VENTRICOSA	*		*					
LAGENA FLATULENTA			*					
OOLINA LINEATA				1				
REOPHAX GUTTIFER							1	
TROCHAMMINELLA BULLATA		1			1	3	3	1
FISSURINA MARGINATA								
GORDIOSPIRA ARCTICA								
LAGENA MOLLIS	*							
QUINQUELOCULINA AGGLUTINATA					3			
TRIFARINA FLUENS		*						1
EGGERELLA ADVENA		*		*				
FISSURINA SERRATA				*				
GLUBULINA SP.								
OOLINA MELO								
REOPHAX SCORPIURUS								
REOPHAX SUHFUSIFORMIS			*	1				
SACCAMMINA SPHAERICA								
TROCHAMMINA SP.								1
BOLIVINA INFLATA								
BOLIVINA PSEUDOPUNCTATA								
PELOSINELLA UJDERA								
CENTROPYXIS ARENATUS								
GUTTULINA SP.								
LAGENA LAEVIS		*						
OOLINA COSTATA								
PANDAGLANDULINA SP.								
PARAFISSURINA FOLLICULA			*					
PYRGO SP.								
TRILOCULINA TRICARINATA			*	*				
PATEORIS MAUERINOIDES								
FISSURINA SEMIMARGINATA								
TOTAL COUNT	308	432	412	590	75	147	248	224

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

STATION	357	358	361	362	363	364	365	366
LATITUDE	695420N	694200N	703700N	702200N	701030N	695928N	694300N	691100N
LONGITUDE	1392810W	1394210W	1392900W	1394200W	1395260W	1401574W	1403700W	1375700W
WATER DEPTH(M)	42	15	1420	515	69	51	26	47
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	14	24		*	2	8	24	41
PROTELPHIDIUM ORBICULARE	11	9				3	14	2
PSEUDOPOLY MORPHINA NOVANGLIAE		1					1	*
BUCCELLA FRIGIDA		5			1		10	1
TROCHAMMINA NANA	18	2		32	73	31	1	2
ISLANDIELLA ISLANDICA	7	23		1	5	13	16	26
SPIROPLECTAMMINA BIFORMIS		6		*	4	3	1	11
ISLANDIELLA TEHETIS	7	17	5	1	1	20	20	3
ELPHIDIELLA GROENLANDICA		1						
ISLANDIELLA NORCROSSI	4	1				2	3	8
CRIBROSTOMOIDES CRASSIMARGO	11	1		5	4			1
TEXTULARIA EARLANDI		1		8				1
BUCCELLA INUSITATA								
SILICOSIGMOILINA GROENLANDICA						2		*
CASSIDELLA COMPLANATA	7	1					3	1
ELPHIDIUM SUBARCTICUM		1					1	
QUINQUELOCULINA SEMINULUM								
RECURVOIDES TURBINATUS				*				
ELPHIDIUM BARTLETTI		5					4	
REOPHAX CURTUS		*		1				
GUTTULINA LACTEA							2	*
LARYNGOSIGMA HYALASCIIDIA		*						
CIBICIDES LOBATULUS	18	1		1	7	8		2
VIRGULINA SCHREIBERSIANA								
MELONIS ZAANDAMI		*		4		2		
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA								
ASTRONONION GALLOWAYI		*			1	2	1	
CYCLOGYRA INVOLVENS				*				*
TEXTULARIA TORQUATA				*				1
HYPERAMMINA ELONGATA				11				
LAGENA GRACILLIMA								
REOPHAX NODULOSUS			5	16				
EOEPOPIDELLA PULCHELLA								
NONIONELLINA LABRADORICA		*						
TROCHAMMINA QUADRILoba				11				
PYRGO WILLIAMSONI								*
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS			69		2			
SACCAMMINA ATLANTICA		*		1				
TRILOCULINA TRIHEDRA								*
HYPERAMMINA FRIABILIS				3				*
SIGMOMORPHINA UNDULOSA								
ESOSYRINX CURTA								
ROBERTINOIDES CHARLOTTENSIS		*						
AMMOTIUM CASSIS		*					1	
DENTALINA FROBISHERENIS								*
THALMANNAMMINA PARKERAE			21					
BULIMINA MARGINATA								
DENTALINA IYTAI								
FISSURINA VENTRICOSA								
LAGENA FLATULENTA								
OOLINA LINEATA								
REOPHAX GUTTIFER				6				
TROCHAMMINELLA BULLATA								
FISSURINA MARGINATA								*
GORDIOSPIRA ARCTICA								
LAGENA MOLLIS								
QUINQUELOCULINA AGGLUTINATA	4							
TRIPARINA FLUENS								
EGGERELLA ADVENA								
FISSURINA SERRATA						2		
GLOBULINA SP.		*						
OOLINA HELG		*						
REOPHAX SCORPIURUS		*						
REOPHAX SUBFUSIFORMIS								
SACCAMMINA SPHAERICA								
TROCHAMMINA SP.						2		
BOLIVINA INFLATA								
BOLIVINA PSEUDOPUNCTATA								
PELOSINELLA DIDERA								
CENTROPYXIS ARENATUS		*						
GUTTULINA SP.								
LAGENA LAEVIS								
OOLINA COSTATA								
PANDAGLANDULINA SP.								
PARAFISSURINA FOLLICULA								
PYRGO SP.								
TRILOCULINA TRICARINATA								
PATECRIS HAUFERINOIDES								*
FISSURINA SEMIMARGINATA								
TOTAL COUNT	28	632	39	359	85	61	107	741

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

STATION	367	368	369	370	371	372	373	374
LATITUDE	692210N	693300N	703050N	701900N	701050N	700100N	694700N	693600N
LONGITUDE	1380480W	1381180W	1381950W	1381100W	1375950W	1375700W	1373200W	1372000W
WATER DEPTH(M)	47	109	795	421	241	109	66	44
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	36	30		5	19	23	31	24
PROTELEPHIDIUM ORBICULARE	3	2		*	2	1	*	5
PSEUDOPOLYMRPHINA NOVANGLIAE	1						*	*
BUCCELLA FRIGIDA	1	3		1	2	2	1	1
TROCHAMMINA NANA	2	2	1	27	3	17	*	*
ISLANDIELLA ISLANDICA	21	25		9	14	16	52	54
SPIROPLECTAMMINA BIFORMIS	2	8		1	*	10	2	*
ISLANDIELLA TERETIS	16	6	1	7		12	1	7
ELPHIDIELLA GROENLANDICA		*			9	*	1	*
ISLANDIELLA NORCROSSI	7	3		10	26	3	4	3
CRIBROSTOMOIDES CRASSIMARGO	2	1	1	7	*	1	1	3
TEXTULARIA EARLANDI	*	4		4	*	4	1	1
SILICOSIGMOILINA GROENLANDICA	*	1				*	1	1
CASSIDELLA COMPLANATA	3	4		1	6	1	3	2
ELPHIDIUM SUBARCTICUM		*		1	1			
QUINQUELOCULINA SEMINULUM		*			*			*
RECURVOIDES TURBINATUS	1	*		2		2		*
ELPHIDIUM BARTLETTI						*		*
REOPHAX CURTUS	*		17	3				
GUTTULINA LACTEA		1					1	*
LARYNGOSIGMA HYALASCIDIA	*							*
CIBICIDES LOBATULUS	*	1		2	13			
VINGULINA SCHREIBERSIANA	1	2		*		4	*	
MELONIS ZAANDAMI			2	6	2	*		
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA	*						*	
ASTRONONION GALLOWAYI	*	*			1			
CYCLOGYRA INVOLVENS				*	*	*	*	
HYPERAMMINA ELONGATA	*		21	2	*			
LAGENA GRACILLIMA	*			*				
REOPHAX NODULOSUS			7	1				
NONIONELLINA LABRADORICA	1					*	*	*
TROCHAMMINA QUADRILLOBA				3	1	1	*	
PYRGO WILLIAMSONI	*			*				
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS	*		51					
SACCAMMINA ATLANTICA				1				
TRILOCCHINA TRIHEDRA				6		1		
HYPERAMMINA FRIABILIS						*		
ESOSYRINX CURTA		*						
QUINQUELOCULINA SADKOVI							*	
ROBERTINOIDES CHARLOTTENSIS	*			*		*		
AMHOTIUM CASSIS								
DENTALINA BAGGI								
DENTALINA FROBISHERENIS	*							
IMALMANNAMMINA PARKERAE		1	1					
BULIMINA MARGINATA								*
DENTALINA ITTAI	*							
LAGENA FLATULENTA				*				
OOLINA LINEATA				*				
QUINQUELOCULINA ARCTICA								*
REOPHAX GUTTIFER								
FISSURINA MARGINATA	*	*				*		
GORDIOSPIRA ARCTICA								
LAGENA MOLLIS				*		*		
TRIFARINA FLUENS								
BILOCULINELLA INFLATA								
FISSURINA CUCURBITASEMA	*							
GLOBULINA SP.	*							
SACCAMMINA SPHAERICA								
BOLIVINA INFLATA				*				
LAGENA SEMILINEATA	*							
OOLINA GLOBOSA								
PARAFISSURINA FUSULIFORMIS	*					*		
PATELLINA CORRUGATA						*		
PELOSINELLA DIVERA	*							
ASTACOLUS HYALACRULUS								
ELPHIDIELLA ARCTICA								
FISSURINA LAEVIGATA	*							
INVOLUTINA INTERMEDIA		*						
LAGENA NODULOSA				*				
QUINQUELOCULINA NITIDA								
SPIRILLINA VIVIPARA					*			
PATECORIS MAUERINOIDES		*			*			
FISSURINA SEMIMARGINATA	*							
CYCLOGYRA FOLIACEA								
TOTAL COUNT	1684	721	186	732	572	618	564	540

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

STATION	375	376	377	378	379	380	381	383
LATITUDE	692700N	702900N	702150N	700820N	695800N	695100N	694470N	704570N
LONGITUDE	1371000W	1374900W	1373300W	1371500W	1370000W	1364800W	1363730W	1370400W
WATER DEPTH(M)	24	846	322	47	38	27	18	390
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	63		18	42	42	46	76	*
PROTELPHIDIUM ORBICULARE	5		2	4	5	8	9	*
PSEUDOPOLYMRPHINA NOVANGLIAE	1			*	*	1	1	
BUCCELLA FRIGIDA	1		3	4	5	1	1	
TROCHAMMINA NANA		11	12	1	1	1		1
ISLANDIELLA ISLANDICA	24		20	29	30	38	9	1
SPIROPECTAMMINA BIFORMIS	*		4	5	1	1		
ISLANDIELLA TERETIS	2		14	8	5	*	*	
ELPHIDIELLA GROENLANDICA	*		*	*	*	*	1	*
ISLANDIELLA NORCROSSI	3		8	5	8	2		
CRIBHOSOMOIDES CRASSIMARGO		3			*			4
TEXTULARIA EARLANDI	*		4	1				
SILICOSIGMOILINA GROENLANDICA	*				*	1		
CASSIDELLA COMPLANATA	*		5	1	1	1		
ELPHIDIUM SUBARCTICUM			*		1	*		
QUINQUELOCULINA SEMINULUM								
RECURVOIDES TURBINATUS			1					
ELPHIDIUM BARTLETTI					*		*	
REOPHAX CURTUS		23				1		4
GUTTULINA LACTEA	*		1			1	1	
LAMYNGOSIGMA HYALASCIDIA				*	2	1	1	
CIBICIDES LOBATULUS	*		4					
VIRGULINA SCHREIBERSIANA			1		*			
MELONIS ZAANDAMI		3	2					
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA	*		*	*				
ASTRONONION GALLOWAYI			*					
CYCLOGYRA INVOLVENS	*				*			
HYPERAMMINA ELONGATA		14						
LAGENA GRACILLIMA	*						*	
REOPHAX NODULOSUS	*	9						*
NONIONELLINA LABRADORICA			*		*			
TROCHAMMINA QUADRILoba								
PYRGO WILLIAMSONI			*					
QUINQUELOCULINA STALKERI							*	
RECURVOIDES CONTORTUS		37						79
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA			1					
HYPERAMMINA FRIABILIS		1						*
ESOSYRINX CURTA								
QUINQUELOCULINA SADKOVI								
ROBERTINOIDES CHARLOTTENSIS			1					
AMMOTIUM CASSIS								
DENTALINA BAGGI	*							
DENTALINA FROBISHERENIS	*							
THALMANNAMMINA PARKERAE		2						11
BULIMINA MARGINATA								
DENTALINA ITTAI								
LAGENA FLATULENTA								
OOLINA LINEATA								
QUINQUELOCULINA ARCTICA								
REOPHAX GUTTIFER								
FISSURINA MARGINATA			*				*	
GORDIOSPIRA ARCTICA								
LAGENA MOLLIS								
TRIFARINA FLUENS			*					
BILOCULINELLA INFLATA								
FISSURINA CUCURBITASEMA								
GLOBULINA SP.								
SACCAMMINA SPHAERICA								
BOLIVINA INFLATA								
LAGENA SEMILINEATA								
OOLINA GLOBOSA								
PARAFISSURINA FUSULIFORMIS								
PATELLINA CORRUGATA								
PELOSINELLA DIJERA				*				
ASTACOLUS HYALACRULUS						*		
ELPHIDIELLA ARCTICA								
FISSURINA LAEVIGATA								
INVOLUTINA INTERMEDIA								
LAGENA NODULOSA								
QUINQUELOCULINA NITIDA								
SPIRILLINA VIVIPARA								
PATEORIS HAUEHINOIDES	*				*			
FISSURINA SEMIMARGINATA								*
CYCLOGYRA FOLIACEA								
TOTAL COUNT	1583	191	394	290	427	1284	970	487

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

STATION	384	385	386	387	388	389	390	391
LATITUDE	703200N	701800N	701060N	700060N	703085N	704250N	703760N	702600N
LONGITUDE	1364000W	1361500W	1355450W	1353910W	1361792W	1355200W	1354740W	1352700W
WATER DEPTH (M)	700	57	46	28	880	470	87	62
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	2	30	53	46	4	9	20	21
PROTELPHIDIUM ORBICULARE		10	4	3			3	8
PSEUDOPOLYMRPHINA NOVANGLIAE	1		1	*				
BUCCELLA FRIGIDA		2	3	*		3	11	9
TROCHAMMINA NANA	17	2	*	*	61	11	13	4
ISLANDIELLA ISLANDICA	11	24	23	46		4	17	18
SPIROPLECTAMMINA BIFORMIS	2	6	1	.1		3	5	12
ISLANDIELLA TERETIS	16	14	2	*	7	2	16	3
ELPHIDIELLA GROENLANDICA		1	*	*				*
ISLANDIELLA NORCROSSI	5	3	4	*		11	9	6
CRIBROSTOMOIDES CRASSIMARGO	13	3	2	*		8	1	12
TEXTULARIA EARLANDI		1	*	*		5	*	1
SILICOSIGMOILINA GROENLANDICA	1				4	1		
CASSIDELLA COMPLANATA		2				1	1	4
ELPHIDIUM SUBARCTICUM								
QUINQUELOCULINA SEMINULUM								
RECURVOIDES TURBINATUS		1	1					
ELPHIDIUM BARTLETTI		1	*	*			1	1
REOPHAX CURTUS	5				4			
GUTTULINA LACTEA		*	2	*				
LARYNGOSIGMA HYALASCIDIA				*			*	
CIBICIDES LOBATULUS						2		
VIRGULINA SCHREIBERSIANA				1			1	*
MELONIS ZAANDAMI	2					20		
REOPHAX PILULIFERA					4			
PARAFISSURINA HIMATIOSTOMA	1					1		
ASTRONOMION GALLOWAYI			*					
CYCLOGYRA INVOLVENS	1				4		*	
HYPERAMMINA ELONGATA	11					10		
LAGENA GRACILLIMA								
REOPHAX NODULOSUS	1				7	1		
NONIONELLINA LABRADORICA							*	
TROCHAMMINA QUADRILOBA	5					1		
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI				1				*
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA	1			*				
HYPERAMMINA FRIABILIS	2				4	2		
ESOSYRINX CURTA								
QUINQUELOCULINA SAKKOVI								
ROBERTINOTDES CHARLOTTENSIS		1						
AMMOTIUM CASSIS						3		
DENTALINA BAGGI								
DENTALINA FROBISHERENIS								
THALMANNAMMINA PARKERAE								
BULIMINA MARGINATA			2					
DENTALINA ITTAI								
LAGENA FLATULENTA								
OOLINA LINEATA								
QUINQUELOCULINA ARCTICA				*				
REOPHAX GUTTIFER								
FISSURINA MARGINATA							1	
GORDIOSPIRA ARCTICA								
LAGENA MOLLIS						2		
TRIFARINA FLUENS								
BILOCULINELLA INFLATA					4			
FISSURINA CUCURBITASEMA								
GLOBULINA SP.			1					
SACCAMMINA SPHAERICA	2							
BOLIVINA INFLATA								
LAGENA SEMILINEATA								
OOLINA GLOBOSA								*
PARAFISSURINA FUSULIFORMIS							*	
PATELLINA CORRUGATA						1		
PELOSINELLA DIDERA								
ASTACOLUS HYALACRULUS								
ELPHIDIELLA ARCTICA								
FISSURINA LAEVIGATA								
INVOLUTINA INTERMEDIA								
LAGENA NODULOSA								
QUINQUELOCULINA NITIDA			1					
SPIRILLINA VIVIPARA								
PATEORIS MAUERINOIDES						1		
FISSURINA SEMIMARGINATA								
CYCLOGYRA FOLIACEA								

TOTAL COUNT 86 313 460 1110 28 102 289 284

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 1

STATION	392	393	394	395	396	398	399
LATITUDE	701760N	700800N	704130N	702650N	701700N	705740N	705235N
LONGITUDE	1351100W	1345400W	1344150W	1341750W	1340000W	1350340W	1345700W
WATER DEPTH(M)	55	37	58	62	45	457	146
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	23	54	2	34	21	7	4
PROTELPHIDIUM ORRICULARE	7	6	4	11	14	1	
PSEUDOPOLYMRPHINA NOVANGLIAE		1					
BUCCELLA FRIGIDA	7	1	1	4		1	
TROCHAMMINA NANA	25	*	42	1	43	4	65
ISLANDIELLA ISLANDICA	7	26	1	11		22	2
SPIROPECTAMMINA BIFORMIS	14	2	29	4	14	1	6
ISLANDIELLA TERETIS	5	2		7		16	2
ELPHIDIELLA GROENLANDICA		*					
ISLANDIELLA NORCROSSI	4	3	4	10		22	
CRIBHSTOMOIDES CRASSIMARGO	3	1	4	7		6	
TEXTULARIA EARLANDI	2	1	11	4		1	9
SILICOSIGMOILINA GROENLANDICA		*					3
CASSIDELLA COMPLANATA		1		3		1	
ELPHIDIUM SUBARCTICUM		*					
QUINQUELOCULINA SEMINULUM		*				1	
RECURVOIDES TURBINATUS			2	1		*	
ELPHIDIUM BARTLETTI	2	1	1				
REOPHAX CURTUS					7	1	2
GUTTULINA LACTEA		*					
LARYNGOSIGMA MYALASCIDIA	1	1					
CIBICIDES LOBATULUS		*					
VIRGULINA SCHREIBERSIANA		*				*	
MELONIS ZAANDAMI						5	2
REOPHAX PILULIFERA							
PARAFISSURINA HIMATIOSTOMA							
ASTRONONION GALLOWAYI		*					
CYCLOGYRA INVOLVENS		*					
TEXTULARIA TORQUATA							
HYPERAMMINA ELONGATA						6	
LAGENA GRACILLIMA							
REOPHAX NODULOSUS						4	
NONIONELLINA LABRADORICA							
TROCHAMMINA QUADRILoba				1		2	4
PYRGO WILLIAMSONI		*					
QUINQUELOCULINA STALKERI		*					
RECURVOIDES CONTORTUS							
SACCAMMINA ATLANTICA						*	
TRILOCULINA TRIHEDRA							
HYPERAMMINA FRIABILIS						*	
ESOSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS							
AMMOTIUM CASSIS							
DENTALINA BAGGI						*	
DENTALINA FROBISHERENIS							
THALMANNAMMINA PARKERAE	*						
BULIMINA MARGINATA			1				
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS							
LAGENA FLATULENTA						*	
GOLINA LINEATA				1			
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER							
FISSURINA MARGINATA						*	
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA							
BILOCULINELLA INFLATA						*	
TROCHAMMINA SP.							
GOLINA GLOBOSA							
PELOSINELLA DIDERA							1
ASTRORHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS							
QUINQUELOCULINA LATA							
PATEORIS MAUERINOIDES							
TOTAL COUNT	242	1012	142	73	14	455	101

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.



BEAUFORT SEA FORAMS-CSS HUSON 1969-RELATIVE ABUNDANCES. PAGE 2

STATION	400	401	402	403	404	405	406
LATITUDE	704650N	700850N	701450N	700700N	700000N	695200N	700200N
LONGITUDE	1345000W	1324790W	1320610W	1313500W	1323200W	1331950W	1334580W
WATER DEPTH(M)	73	25	31	175	19	16	30
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	20	61		71	70	92	63
PROTELPHIDIUM ORBICULARE	3	6	25	12	12	6	8
PSEUDOPOLYMORPHINA NOVANGLIAE							*
BUCCELLA FRIGIDA	6	6	25	5	3	*	1
TROCHAMMINA NANA	16	4			1		
ISLANDIELLA ISLANDICA	17	12		3	9	*	26
SPIROPECTAMMINA BIFORMIS	6	9	50	4	2	*	*
ISLANDIELLA TERETIS	6						
ELPHIDIELLA GROENLANDICA							*
ISLANDIELLA NORCROSSI	7						
CRIBROSTOMOIDES CRASSIMARGO	2						
TEXTULARIA EARLANDI	6						
SILICOSIGMOILINA GROENLANDICA	2			2	1		1
CASSIDELLA COMPLANATA							
ELPHIDIUM SUBARCTICUM				*			
QUINQUELOCULINA SEMINULUM	1			*			
RECURVOIDES TURBINATUS	2						
ELPHIDIUM BARTLETTI	1						
REOPHAX CURTUS					*		
GUTTULINA LACTEA		1		1	*	1	*
LARYNGOSIGMA HYALASCIDIA		1		1	1	*	*
CIBICIDES LOBATULUS							
VIRGULINA SCHREIBERSIANA							
MELONIS ZAANDAMI							
REOPHAX PILULIFERA							
PARAFISSURINA HIMATIOSTOMA							
ASTRONONION GALLOWAYI							
CYCLOGYRA INVOLVENS	1						
TEXTULARIA TORQUATA							
HYPERAMMINA ELONGATA							
LAGENA GRACILLIMA				*	1		
REOPHAX NODULOSUS				*			
NONIONELLINA LABRADORICA							
TROCHAMMINA QUADRILoba							
PYRGO WILLIAMSONI							
QUINQUELOCULINA STALKERI	6			*		*	
RECURVOIDES CONTORTUS							
SACCAMMINA ATLANTICA							
TRILOCULINA TRIHEDRA							
HYPERAMMINA FRIABILIS							
ESOSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS							
AMMOTIUM CASSIS							
DENTALINA BAGGI							
DENTALINA PROBISHERENIS							
THALMANNAMMINA PARKERAE							
BULIMINA MARGINATA							
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS				*		*	
LAGENA FLATULENTA							
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER							
FISSURINA MARGINATA	1					*	
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA							
BILOCULINELLA INFLATA							
TROCHAMMINA SP.							
OOLINA GLOBOSA							
PELOSINELLA DIDERA							
ASTRORHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS							
QUINQUELOCULINA LATA							
PATEORIS MAUERINOIDES							
TOTAL COUNT	163	100	4	355	242	703	582

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 3

STATION	407	408	409	410	411	412	413
LATITUDE	711200N	710100N	705600N	704700N	703800N	702400N	711850N
LONGITUDE	1342200W	1340700W	1335950W	1334700W	1332900W	1330900W	1332350W
WATER DEPTH(M)	850	289	80	80	62	42	699
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	1	2	2	6	47	16	
PROTELPHIDIUM ORBICULARE				9	6		
PSEUDOPOLYMORPHINA NOVANGLIAE							
BUCCELLA FRIGIDA		1		4	7	2	
TROCHAMMINA NANA	1	50	28	30	4	12	2
ISLANDIELLA ISLANDICA		9	6	9	9	1	
SPIROPECTAMMINA BIFORMIS			45	9	5	40	
ISLANDIELLA TERETIS		4	3	11			
ELPHIDIELLA GROENLANDICA					1		
ISLANDIELLA NOKROSSI		11	1	16	7		
CRIBROSTOMOIDES CRASSIMARGO		1		1	3	1	3
TEXTULARIA EARLANDI		3	8	2	2	8	
SILICOSIGMOILINA GROENLANDICA							
CASSIDELLA COMPLANATA		1		2	2		
ELPHIDIUM SUBARCTICUM							
QUINQUELOCULINA SEMINULUM							
RECURVOIDES TURBINATUS	5	5			1	1	3
ELPHIDIUM BARTLETTI					6		
REOPHAX CURTUS							1
GUTTULINA LACTEA				1			
LARYNGOSIGMA HYALASCIDIA					1	1	
CIBICIDES LOBATULUS							
VIRGULINA SCHREIBERSIANA			1	1	1		
MELONIS ZAANDAMI		4	2				
REOPHAX PILULIFERA	1						1
PARAFISSURINA HIMATIOSTOMA							
ASTRONONION GALLOWAYI							
CYCLOGYRA INVOLVENS		*				1	
TEXTULARIA TORQUATA			4			19	
HYPERAMMINA ELONGATA	3	4					10
LAGENA GRACILLIMA							
REOPHAX NODULOSUS	11						11
NONIONELLINA LABRADORICA							
TROCHAMMINA QUADRILLOBA	1					1	
PYRGO WILLIAMSONI							
QUINQUELOCULINA STALKERI							
RECURVOIDES CONTORTUS	76						69
SACCAMMINA ATLANTICA		5		1			
TRILOCULINA TRIMEDRA							
HYPERAMMINA FRIABILIS							1
ESOSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS					1		
AMMOTIUM CASSIS				1			
DENTALINA BAGGI	1						
DENTALINA FROBISHERENIS							
THALMANNAMMINA PARKERAE	2						1
BULIMINA MARGINATA							
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS				1			
LAGENA FLATULENTA		*					
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER							
FISSURINA MARGINATA							
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA							
BILOCULINELLA INFLATA							
TROCHAMMINA SP.							
OOLINA GLOBOSA							
PELOSINELLA DIDERA							
ASTRORHIZA LIMICOLA		*					
PLANISPIRINOIDES BUCCLENTUS		*					
QUINQUELOCULINA LATA							
PATEORIS HAUERINOIDES							
TOTAL COUNT	350	332	125	183	137	161	191

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 4

STATION	414	415	416	418	419	420	421
LATITUDE	710950N	710280N	705620N	704520N	703180N	705200N	704100N
LONGITUDE	1330700W	1325950W	1324700W	1322760W	1321000W	1283300W	1281900W
WATER DEPTH(M)	346	80	65	51	35	36	29
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	2	2	27	9		18	75
PROTELPIDIUM ORBICULARE		2	7	1	25	9	
PSEUDOPOLYMORPHINA NOVANGLIAE							
BUCCELLA FRIGIDA		4		4			8
TROCHAMMINA NANA	32	49	20	20			
ISLANDIELLA ISLANDICA	10	4	7	2	25		
SPIROPECTAMMINA BIFORMIS	*	18	7	44			
ISLANDIELLA TERETIS	13	2		1	25	46	17
ELPHIDIELLA GROENLANDICA							
ISLANDIELLA NORCROSSI	12	3	7		25		
CRIBROSTOMOIDES CRASSIMARGO	3	2	20	2			
TEXTULARIA EARLANDI	3	5		8			
SILICOSIGMOILINA GROENLANDICA		1					
CASSIDELLA COMPLANATA							
ELPHIDIUM SUBARCTICUM						9	
QUINQUELOCULINA SEMINULUM							
RECURVOIDES TURBINATUS				*			
ELPHIDIUM BARTLETTI							
REOPHAX CURTUS	1		7				
GUTTULINA LACTEA							
LARYNGOSIGMA HYALASCIDIA				1			
CIBICIDES LOBATULUS	*					9	
VIRGULINA SCHREIBERSIANA	*	2					
MELONIS ZAANDAMI	6						
REOPHAX PILULIFERA	2						
PARAFISSURINA HIMATIOSTOMA	*						
ASTRONONION GALLOWAYI				*		9	
CYCLOGYRA INVOLVENS		1					
TEXTULARIA TORQUATA	*	1		6			
HYPERAMMINA ELONGATA	9						
LAGENA GRACILLIMA							
REOPHAX NODULOSUS	2						
NONIONELLINA LABRADORICA	1						
TROCHAMMINA QUADRILLOBA	2	6					
PYRGO WILLIAMSONI							
QUINQUELOCULINA STALKERI							
RECURVOIDES CONTORTUS	*						
SACCAMMINA ATLANTICA							
TRILOCULINA TRIHEDRA							
HYPERAMMINA FRIABILIS							
ESUSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS		1					
AMMOTIUM CASSIS				2			
DENTALINA BAGGI	*						
DENTALINA FROBISHERENSIS							
THALMANNAMMINA PARKERAE							
BULIMINA MARGINATA							
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS							
LAGENA FLATULENTA	*						
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER	1						
FISSURINA MARGINATA							
LAGENA MOLLIS	*						
QUINQUELOCULINA AGGLUTINATA				*			
BILOCULINELLA INFLATA				1			
TROCHAMMINA SP.							
GOLINA GLOBOSA							
PELOSINELLA DIDERA							
ASTROMHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS							
QUINQUELOCULINA LATA							
PATEORIS HAUERINOIDES							
TOTAL COUNT	262	137	15	466	4	11	12

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 5

STATION	422	423	424	425	426	427	428
LATITUDE	702980N	703870N	712570N	711470N	710350N	705650N	704130N
LONGITUDE	1292280W	1293940W	1320600W	1315480W	1314270W	1312470W	1305210W
WATER DEPTH(M)	16	22	585	104	62	54	33
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	30	64		9	19	31	92
PROTELPHIDIUM ORBICULARE	5	21	2		7	5	
PSEUDOPOLYMORPHINA NOVANGLIAE		3			1		
BUCCELLA FRIGIDA	20	9			6	3	
TROCHAMMINA NANA	5	1	6	48	14	3	
ISLANDIELLA ISLANDICA	25		1		21	18	
SPIROPLECTAMMINA BIFORMIS		6		4	3		8
ISLANDIELLA TERETIS				9	15	23	
ELPHIDIELLA GROENLANDICA		2			1		
ISLANDIELLA NORCROSSI					8	5	
CRIBROSTOMOIDES CRASSIMARGO			24	9			
TEXTULARIA EARLANDI					2		
SILICOSIGMOILINA GROENLANDICA		1					
CASSIDELLA COMPLANATA					3	3	
ELPHIDIUM SUBARCTICUM	5						
QUINQUELOCULINA SEMINULUM							
RECURVOIDES TURBINATUS			6				
ELPHIDIUM BARTLETTI		1			1	8	
REOPHAX CURTUS			6	13			
GUTTULINA LACTEA							
LARYNGOSIGMA HYALASCIDIA		2				3	
CIBICIDES LEBATULUS	5						
VIRGULINA SCHREIBERSIANA							
MELONIS ZAANDAMI			3				
REOPHAX PILULIFERA							
PARAFISSURINA HIMATIOSTOMA							
ASTRONONION GALLOWAYI					1		
CYCLOGYRA INVOLVENS							
TEXTULARIA TORQUATA	5			9			
HYPERAMMINA ELONGATA			14				
LAGENA GRACILLIMA							
REOPHAX NODULOSUS			17				
NONIONELLINA LABRADORICA					1		
TROCHAMMINA QUADRILoba			2				
PYRGO WILLIAMSONI							
QUINQUELOCULINA STALKERI							
RECURVOIDES CONTORTUS			20				
SACCAMMINA ATLANTICA							
TRILOCULINA TRIHEDRA							
HYPERAMMINA FRIABILIS							
ESOSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS							
AMMOTIUM CASSIS							
DENTALINA BAGGI			1				
DENTALINA FROBISHERENIS							
THALMANNAMMINA PARKERAE							
BULIMINA MARGINATA							
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS							
LAGENA FLATULENTA							
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER							
FISSURINA MARGINATA							
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA					1		
BILOCULINELLA INFLATA							
TROCHAMMINA SP.							
OOLINA GLOBOSA							
PELOSINELLA DIDERA							
ASTRORHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS			1				
QUINQUELOCULINA LATA							
PATEORIS HAUERINOIDES							
TOTAL COUNT	20	188	178	23	170	39	12

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969-RELATIVE ABUNDANCES. PAGE 6

STATION	429	430	431	432	433	434	435
LATITUDE	703180N	702240N	712675N	711660N	710700N	705680N	705000N
LONGITUDE	1304160W	1303100W	1305387W	1303760W	1301780W	1300360W	1295200W
WATER DEPTH(M)	25	18	314	62	44	38	29
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM		58	10	18	52	62	68
PROTELEPHIDIUM ORBICULARE		15	8		3	4	4
PSEUDOPOLYMORPHINA NOVANGLIAE		2				*	
BUCCELLA FRIGIDA		3		12	5	11	8
TROCHAMMINA NANA		1	3	12	8	1	
ISLANDIELLA ISLANDICA	50	6	*	6	11	3	3
SPIROPECTAMMINA BIFORMIS	50	3		12	5	2	6
ISLANDIELLA TEKETIS		1	1	24	9	14	8
ELPHIDIELLA GROENLANDICA		3					
ISLANDIELLA NORCROSSI			11		3	3	
CRIBROSTOMOIDES CRASSIMARGO			21				
TEXTULARIA EARLANDI		3					1
SILICOSIGMOILINA GROENLANDICA							
CASSIDELLA COMPLANATA					1	*	
ELPHIDIUM SUBARCTICUM			1				
QUINQUELOCULINA SEMINULUM			1				
RECURVOIDES TURBINATUM							
ELPHIDIUM BARTLETTI		3					
REOPHAX CURTUS			1	6			
GUTTULINA LACTEA					1		1
LARYNGOSIGMA HYALASCIDIA		1				*	1
CIBICIDES LOBATULUS							
VIRGULINA SCHREIBERSIANA						*	
MELONIS ZAANDAMI			29				
REOPHAX PILULIFERA							
PARAFISSURINA HIMATIOSTOMA			*				
ASTRONONION GALLOWAYI					1		
CYCLOGYRA INVOLVENS							
TEXTULARIA TORQUATA		2		12	1		1
HYPERAMMINA ELONGATA			13				
LAGENA GRACILLIMA							
REOPHAX NODULOSUS			1				
NONIONELLINA LABRADORICA					1		
TROCHAMMINA QUADRILoba					1		1
PYRGO WILLIAMSONI		1					
QUINQUELOCULINA STALKERI							
RECURVOIDES CONTORTUS							
SACCAMMINA ATLANTICA							
TRILOCULINA TRIHEDRA							
HYPERAMMINA FRIABILIS							
ESOSYRINX CURTA							
ROBERTINOIDES CHARLOTTENSIS							
AMMOTIUM CASSIS							1
DENTALINA BAGGI			*				1
DENTALINA FROBISHERENSIS							
THALMANNAMMINA PARKERAE							
BULIMINA MARGINATA							
DENTALINA ITTAI							
MILIOLINELLA CHUKCHIENSIS							
LAGENA FLATULENTA							
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA							
REOPHAX GUTTIFER							
FISSURINA MARGINATA							
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA							
BILOCULINELLA INFLATA							
TROCHAMMINA SP.							
OOLINA GLOBOSA							
PELOSINELLA DIDERA							
ASTRORHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS							
QUINQUELOCULINA LATA							
PATEORIS HAUERINOIDES							
TOTAL COUNT	2	120	479	17	185	329	210

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-CSS HUDSON 1969, RELATIVE ABUNDANCES. PAGE 7

STATION	436	437	438	439	440	441	442
LATITUDE	712520N	711750N	710790N	710100N	695650N	695100N	713430N
LONGITUDE	1292730W	1291060W	1285910W	1284950W	1343300W	1352000W	1294180W
WATER DEPTH (M)	69	47	40	40	16	16	225
SPECIES							
ELPHIDIUM INCERTUM/CLAVATUM	24	15	19	24	81	80	10
PROTELPIDIUM ORBICULARE		7	3	3	8	11	2
PSEUDOPOLYMRPHINA NOVANGLIAE					1	1	
BUCCELLA FRIGIDA	3	3	4	7	2	1	6
TROCHAMMINA NANA	5	25	14				27
ISLANDIELLA ISLANDICA	24	5	7	3	2	3	7
SPIROPLECTAMMINA BIFORMIS	13	27	9		*	*	12
ISLANDIELLA TERETIS	19	7	15	35	1		7
ELPHIDIELLA GROENLANDICA					2	1	
ISLANDIELLA NORCROSSI	8	5	12		*	1	6
CRIBROSTOMOIDES CRASSIMARGO							1
TEXTULARIA EARLANDI		2	3				6
SILICOSIGMOILINA GROENLANDICA	1	2				*	1
CASSIDELLA COMPLANATA	1	2	5				1
ELPHIDIUM SUBARCTICUM						*	*
QUINQUELOCULINA SEMINULUM							
RECURVOIDES TURBINATUS							1
ELPHIDIUM BARTLETTI				3		*	
REOPHAX CURTUS			1	3			1
GUTTULINA LACTEA			1		1	*	
LARYNGOSIGMA HYALASCIDIA					*	*	
CIBICIDES LOBATULUS			1				
VIRGULINA SCHREIBERSIANA	1		1				2
MELONIS ZAANDAMI							
REOPHAX PILULIFERA							*
PARAFISSURINA HIMATIOSTOMA							
ASTRONONION GALLOWAYI			2	14	*		
CYCLOGYRA INVOLVENS			1				
TEXTULARIA TORQJATA	1		1			*	4
HYPERAMMINA ELONGATA							
LAGENA GRACILLIMA					*		
REOPHAX NUCULOSUS							
NONIONELLINA LABRADORICA	1		1				
TROCHAMMINA QUADRILOBA							5
PYRGO WILLIAMSONI		2					
QUINQUELOCULINA STALKERI			1				
RECURVOIDES CONTORTUS							
SACCAMMINA ATLANTICA							
TRIOLOCULINA TRIHEDRA			1		*		
HYPERAMMINA FRIABILIS				3			
ESOSYRINX CURTA				3			
ROBERTINOIDES CHARLOTTENSIS							
AMMOTIUM CASSIS							
DENTALINA BAGGI						*	
DENTALINA FROBISHERENIS							1
THALMANNAMMINA PARKERAE							
BULIMINA MARGINATA							
DENTALINA ITTAI			1				
MILIOLINELLA CHUKCHIENSIS						*	
LAGENA FLATULENTA							
OOLINA LINEATA							
QUINQUELOCULINA ARCTICA			1				
REOPHAX GUTTIFER							
FISSURINA MARGINATA							
LAGENA MOLLIS							
QUINQUELOCULINA AGGLUTINATA							
BILOCULINELLA INFLATA							
TROCHAMMINA SP.						*	
OOLINA GLOBOSA							*
PELOSINELLA DIDERA							
ASTRORHIZA LIMICOLA							
PLANISPIRINOIDES BUCCLENTUS							
QUINQUELOCULINA LATA							
PATEORIS HAUERINOIDES			1		*		
TOTAL COUNT	101	60	153	29	548	629	427

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-RICHARDSON 1970, RELATIVE ABUNDANCES. PAGE 1

STATION	1	3	4	4A	5	6	7	8
LATITUDE	692536N	693056N	693020N	693018N	693257N	693349N	693466N	693608N
LONGITUDE	1325970W	1331086W	1331777W	1332286W	1332405W	1331056W	1330276W	1330870W
WATER DEPTH(M)	4	4	4	3	4	5	3	5
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	96	100	72	85	97	77	60	34
PROTELEPHIDIUM ORBICULARE	1		28	13	2	22	38	65
PSEUDOPOLYMPHINA NOVANGLIAE							3	
BUCCELLA FRIGIDA								
TROCHAMMINA NANA								
ISLANDIELLA ISLANDICA								
SPIROPLECTAMMINA BIFORMIS								
ISLANDIELLA TERETIS								
ELPHIDIELLA GROENLANDICA								
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO								
TEXTULARIA EARLANDI								
BUCCELLA INUSITATA								
NONION DEPRESSULUS								
SILICOSIGMOCILINA GROENLANDICA						1		1
ELPHIDIUM SUBARCTICUM				2	1			
QUINQUELOCULINA SEMINULUM								
RECURVOIDES TURBINATUS								
ELPHIDIUM BARLETTI								
GUTTULINA LACTEA								
LARYNGOSIGMA HYALASCIDIA								
CIBICIDES LOBATULUS								
VIRGULINA SCHREIBERSIANA								
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA								
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA								
EOEPONIDELLA PULCHELLA								
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA								
REOPHAX FUSIFORMIS								
EOEPONIDELLA PULCHELLA								
SIGMOMORPHINA UNDULOSA								
ESOSYRIX CURTA								
QUINQUELOCULINA SADKOVI								
AMMOTIUM CASSIS								
DENTALINA FROBISHERENIS								
ROSALINA TUMIDA								
TROCHAMMINA LOBATA								
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNDA								
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA								
BUCCELLA SP.								
OOLINA MELO								
SACCAMMINA SPHAERICA								
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA								
AMMODISCUS CATINUS								
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS	2							
TROCHAMMINA ROTALIFORMIS								
PATEORIS HAUERINOIDES								
TOTAL COUNT	82	226	364	182	350	82	37	405

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

REARFOOT SEA FORAMS-RICHARDSON 1970, RELATIVE ABUNDANCES. PAGE 2

STATION	9	10	11	12	13	14	15	16
LATITUDE	693752N	693863N	694108N	694325N	694212N	694500N	694742N	695148N
LONGITUDE	1331445W	1330693W	1330137W	1325600W	1330336W	1330336W	1330512W	1331016W
WATER DEPTH(M)	5	5	6	6	7	7	9	14
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	32	44	52	63	51	73	59	79
PROTEPHIDIUM ORBICULARE	66	52	41	27	32	16	27	15
PSEUDOPOLYMORPHINA NOVANGLIAE	1	1	1	1	4	1		1
BUCCELLA FRIGIDA			3	3	1	2	5	1
TROCHAMMINA NANA								
ISLANDIELLA ISLANDICA								
SPIROPECTAMMINA BIFORMIS		*						*
ISLANDIELLA TERETIS								
ELPHIDIELLA GROENLANDICA		1	1	2	6	1	1	2
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO								
TEXTULARIA EARLANDI								
BUCCELLA INUSITATA			1	1	1	1	1	
NONION DEPRESSULUS	1	1	1	2	3	2	3	*
SILICOSIGMOILINA GROENLANDICA							2	*
ELPHIDIUM SUBARCTICUM						1		
QUINQUELOCULINA SEMINULUM						*	1	
RECURVOIDES TURBINATUS								
ELPHIDIUM BARTLETTI								
GUTTULINA LACTEA								
LARYNGOSIGMA MYALASCIDIA						*		
CIBICIDES LOBATULUS								
VIRGULINA SCHREIBERSIANA								
KEOPHAX PILULIFERA	1	1	2	1	2	*		
PARAFISSURINA HIMATIOSTOMA								
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA						1	1	1
EOEPONIDELLA PULCHELLA								
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA								
KEOPHAX FUSIFORMIS		*		1		1		*
EOPNINAELLA PULCHELLA								
SIGMOMORPHINA UNDULOSA								
ESOSYRIX CURTA						*	1	*
QUINQUELOCULINA SADKOVI						*	1	*
AMMOTIUM CASSIS						1		
DENTALINA FROBISHERENIS								
ROSALINA TUMIDA								
TROCHAMMINA LOBATA								
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNDA								
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA								
BUCCELLA SP.								
OOLINA MELO								
SACCAMMINA SPHAERICA								
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA								
AMMODISCUS CATINUS								
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS								
PATEORIS HAUERINOIDES								
TOTAL COUNT	371	218	183	206	310	697	185	473

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.



BEAUFORT SEA FORAMS-RICHARDSON 1970+RELATIVE ABUNDANCES. PAGE 3

STATION	17	19	20	21	22	23	24	25
LATITUDE	695276N	695174N	694866N	694735N	694594N	693797N	694178N	694533N
LONGITUDE	1325441W	1323601W	1323498W	1323892W	1324215W	1333986W	1333750W	1333491W
WATER DEPTH(M)	13	11	9	7	7	4	5	7
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	43	58	54	59	63	53	56	61
PROTELPHIDIUM ORBICULARE	45	14	34	33	24	40	29	31
PSEUDOPOLYMORPHINA NOVANGLIAE	5		4	1	2	1	1	4
BUCCELLA FRIGIDA	1	3	4	2	1	*	1	1
TROCHAMMINA NANA	*	3						
ISLANDIELLA ISLANDICA								
SPIROPECTAMMINA BIFORMIS								
ISLANDIELLA TERETIS								
ELPHIDIELLA GROENLANDICA	3	16	*			*	11	
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO								
TEXTULARIA EARLANOI								
BUCCELLA INUSITATA	1	1	2	1	2			1
NONION DEPRESSULUS			1	1	3	5		1
SILICOSIGMOILINA GROENLANDICA		1						
ELPHIDIUM SUBARCTICUM	*			2	2	1	1	
QUINQUELOCULINA SEMINULUM								
RECURVOIDES TURBINATUS								
ELPHIDIUM BARTLETTI								
GUTTULINA LACTEA								
LARYNGOSIGMA MYALASCIDIA								
CIBICIDES LOBATULUS								
VIRGULINA SCHREIBERSIANA								
REOPHAX PILULIFERA					2		1	
PARAFISSURINA HIMATIOSTOMA								
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA	*							
EOPONIDELLA PULCHELLA					1			
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA				1				
REOPHAX FUSIFORMIS					1			
EOPNINAELLA PULCHELLA								
SIGMOMORPHINA UNDULOSA	1	1	1	*		*		
ESOSYRIX CURTA		1					1	
QUINQUELOCULINA SADKOVI	*		*	*				
AMMOTIUM CASSIS								
DENTALINA FROBISHERENIS								
ROSALINA TUMIDA								
TROCHAMMINA LOBATA								
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNJA								
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA								
BUCCELLA SP.		1						
OOLINA MELO								
SACCAMMINA SPHAERICA								
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA								
AMMUDISCUS CATINUS								
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS								
PATEORIS HAUERINOIDES								
TOTAL COUNT	276	71	321	415	309	476	194	210

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-RICHARDSON 1970: RELATIVE ABUNDANCES. PAGE 4

STATION	26	30	31	32	33	34	35	35A
LATITUDE	69°48'56"N	69°58'48"N	69°54'03"N	69°51'24"N	69°47'40"N	69°43'03"N	69°49'47"N	69°51'03"N
LONGITUDE	133°33'16"W	134°10'56"W	134°08'43"W	134°06'37"W	134°03'96"W	134°02'03"W	134°17'91"W	134°15'79"W
WATER DEPTH (M)	10	16	11	8	5	4	7	8
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	59	48	43	55	72	66	66	57
PROTELEPHIDIUM ORBICULARE	29	28	34	35	22	32	31	32
PSEUDOPOLYMRPHINA NOVANGLIAE	3	4	9	4	1	1	3	3
BUCCELLA FRIGIDA	3	2	3	2	1	*		2
TROCHAMMINA NANA								
ISLANDIELLA ISLANDICA		2						
SPIROPECTAMMINA BIFORMIS	*		1					
ISLANDIELLA TERETIS								
ELPHIDIELLA GROENLANDICA	1	6	1	1	*			3
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO								
TEXTULARIA EARLANDI								
BUCCELLA INUSITATA	1		1	1	1			2
NONION DEPRESSULUS	1			1	3			1
SILICOSIGMOILINA GROENLANDICA	*	1		*				*
ELPHIDIUM SUBARCTICUM								
QUINQUELOCULINA SEMINULUM			1					*
RECURVOIDES TURBINATUS								
ELPHIDIUM BARTLETTI		4	2	1				
GUTTULINA LACTEA								
LARYNGOSIGMA HYALASCIDIA	*		2					
CIBICIDES LOBATULUS			*					
VIRGULINA SCHREIBERSIANA								
REOPHAX PILULIFERA								*
PARAFISSURINA HIMATIOSTOMA								
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA			1					
ECEPONIDELLA PULCHELLA	1							
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI		1	*					
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA		1	*					
REOPHAX FUSIFORMIS	*					1		
EOPHAX PULCHELLA			1					
SIGMOMORPHINA UNDULOSA								
ESOSYRIX CURTA								
QUINQUELOCULINA SAKKOVI		1	1					
AMMOTIUM CASSIS								
DENTALINA FROBISHERENIS		1						
ROSALINA TUMIDA								
TROCHAMMINA LOBATA								
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNDA								
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA								
BUCCELLA SP.								
OOLINA MELO								
SACCAMMINA SPHAERICA				1				
LAGENA SEMILINEATA								
MILIAMMINA FUSCA				*				
NONIONELLA AURICULA								
AMMODISCUS CATINUS								
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS								
PATEORIS HAUERINOIDES								
TOTAL COUNT	484	83	346	402	511	398	172	321

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-RICHARDSON 1976-RELATIVE ABUNDANCES. PAGE 5

STATION	36	37	38	40	41	42	43	44
LATITUDE	694513N	694838N	695140N	695913N	695517N	695574N	695216N	694881N
LONGITUDE	1344457W	1344111W	1344187W	1344804W	1345588W	1352022W	1351787W	1351542W
WATER DEPTH(M)	6	7	10	20	23	26	17	11
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	63	78	75	50	51	47	64	71
PROTELPIDIUM ORBICULARE	30	16	14	17	8	11	11	19
PSEUDOPOLYMORPHINA NOVANGLIAE	2	1	2	3	1	1	1	1
BUCCELLA FRIGIDA	2	2	4	2	1	2	2	3
TROCHAMMINA NANA								
ISLANDIELLA ISLANDICA				21	35	34	17	
SPIROPLECTAMMINA BIFORMIS				2	*	*	*	
ISLANDIELLA TERETIS				*	*	1		
ELPHIDIELLA GROENLANDICA		2	1	1	*	*	*	4
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO						1		
TEXTULARIA EARLANDI				*				
BUCCELLA INUSITATA	1	1	3	1	*	*	1	1
NONION DEPRESSULUS			1					1
SILICOSIGMOILINA GROENLANDICA					2		*	
ELPHIDIUM SUBARCTICUM						1	*	
QUINQUELOCULINA SEMINULUM		1	1			*	*	1
RECURVOIDES TURBINATUS					*			
ELPHIDIUM BARTILETTI						1	1	
GUTTULINA LACTEA						1	*	
LARYNGOSIGMA HYALASCIDIA								
CIBICIDES LOBATULUS								
VIRGULINA SCHREIBERSIANA					*			
REOPHAX PILULIFERA	1			*				
PARAFISSURINA HIMATIOSTOMA					1	*	*	
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA			*			*	*	
EOPONIDELLA PULCHELLA								
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI	*				*		*	
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA				1	*			
REOPHAX FUSIFORMIS		1		*				
EOPNINAELLA PULCHELLA	*					*	*	
SIGMOMORPHINA UNDULOSA				1	1		1	1
ESOSYRIX CURTA								
QUINQUELOCULINA SADKOVI								
AMMOTIUM CASSIS								
DENTALINA FROBISHERENIS						*		
ROSALINA TUMIDA								
TROCHAMMINA LOBATA								
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNDA								
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA						*		
BUCCELLA SP.								
OOLINA MELO								
SACCAMMINA SPHAERICA							*	
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA								
AMMODISCUS CATINUS								
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA					*			
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS								
PATEORIS HAUERINOIDES				*		*	*	
TOTAL COUNT	229	215	344	282	667	1026	934	187

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-RICHARDSON 1970:RELATIVE ABUNDANCES. PAGE 6

STATION	45	46	47	48	49	50	51	52
LATITUDE	694491N	694147N	700070N	695740N	700310N	700050N	700416N	700858N
LONGITUDE	1351305W	1351146W	1313160W	1311900W	1310140W	1311490W	1311641W	1311575W
WATER DEPTH(M)	8	6	14	4	6	8	14	17
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	74	64	58	70	58	47	74	86
PROTELPHIDIUM ORBICULARE	17	28	29	7	19	22	10	5
PSEUDOPOLYMRPHINA NOVANGLIAE	2	1	2	1	4	4	2	1
BUCCELLA FRIGIDA	3	1	2	8	5		5	4
TROCHAMMINA NANA				2	1	3		
ISLANDIELLA ISLANDICA							2	2
SPIROPECTAMMINA BIFORMIS			2				1	
ISLANDIELLA TERETIS								
ELPHIDIELLA GROENLANDICA			1	1				
ISLANDIELLA NORCROSSI								
CRIBROSTOMOIDES CRASSIMARGO								
TEXTULARIA EARLANDI								
BUCCELLA INUSITATA	1		3		3	*		1
NONION DEPRESSULUS	2			3			3	1
SILICOSIGMOILINA GROENLANDICA		5	2	1	*			
ELPHIDIUM SUBARCTICUM			1			1		
QUINQUELOCULINA SEMINULUM			1		4	1		*
RECURVOIDES TURBINATUS								
ELPHIDIUM BARTLETTI						1		*
GUTTULINA LACTEA			2					*
LARYNGOSIGMA HYALASCIDIA								
CIBICIDES LOBATULUS								
VIRGULINA SCHREIBERSIANA		*						
REOPHAX PILULIFERA								
PARAFISSURINA HIMATIOSTOMA							1	
TEXTULARIA TORQUATA								
LAGENA GRACILLIMA								
EOEPONIDELLA PULCHELLA				1	5	12	4	1
PYRGO WILLIAMSONI								
QUINQUELOCULINA STALKERI								
RECURVOIDES CONTORTUS								
SACCAMMINA ATLANTICA								
TRILOCULINA TRIHEDRA								
REOPHAX FUSIFORMIS				2		*		
EOPHINAELLA PULCHELLA					1	5		
SIGMOMORPHINA UNDULOSA						*		
ESOSYRINX CURTA								
QUINQUELOCULINA SADKOVI								
AMMOTIUM CASSIS				3				
DENTALINA FROBISHERENIS								
ROSALINA TUMIDA				2		1		
TROCHAMMINA LOBATA						2		
MILIOLINELLA CHUKCHIENSIS								
MILIOLINELLA SUBROTUNDA						*		
QUINQUELOCULINA ARCTICA								
FISSURINA MARGINATA								
BUCCELLA SP.								
OOLINA MELO								
SACCAMMINA SPHAERICA								
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA						*		
AMMODISCUS CATINUS						*		
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS					*			
PATEORIS HAUERINOIDES								
TOTAL COUNT	141	703	135	135	247	523	166	463

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-RICHARDSON 17°0'-RELATIVE ABUNDANCES. PAGE 7

STATION	53	54	55	56	57	58	59	60
LATITUDE	701250N	701633N	702041N	701190N	700860N	700458N	700063N	695650N
LONGITUDE	1311466W	1311725W	1311550W	1314516W	1314605W	1314566W	1314433W	1314516W
WATER DEPTH(M)	23	26	28	27	18	18	12	12
SPECIES								
ELPHIDIUM INCERTUM/CLAVATUM	74	70	43	43	31	61	7	61
PROTELPIDIUM ORBICULARE	9	12	28	22	24	16	22	25
PSEUDOPOLYMOXPHINA NOVANGLIAE		1	1	4	1	2	2	3
BUCCELLA FRIGIDA	2	4	6	3	9	3	1	
TROCHAMMINA NANA								
ISLANDIELLA ISLANDICA	9	7	3	9	6	4	*	1
SPIROPECTAMMINA BIFORMIS		1	7	7	3	2		
ISLANDIELLA TERETIS	1			4				
ELPHIDIELLA GROENLANDICA	*	1	1	1	*	1	*	
ISLANDIELLA NORCROSSI	*							
CRIBROSTOMOIDES CRASSIMARGO				1				
TEXTULARIA EARLANDI		*						
BUCCELLA INUSITATA	1	1			1		*	3
NONION DEPRESSULUS	1	*			1	1	*	
SILICOSIGMOILINA GROENLANDICA								
ELPHIDIUM SUBARCTICUM	1	3	3	2	2	2		4
QUINQUELOCULINA SEMINULUM		*		1	4	1	2	1
RECURVOIDES TURBINATUS								
ELPHIDIUM BARTLETTI		1	3		3	1		
GUTTULINA LACTEA	1		1					
LARYNGOSIGMA HYALASCIDIA					*	1	1	
CIBICIDES LOBATULUS	*						*	
VIRGULINA SCHREIBERSIANA								
REOPHAX PILULIFERA			1					
PARAFISSURINA HIMATIOSTOMA					*	1	*	
TEXTULARIA TORQUATA			1	2	*			
LAGENA GRACILLIMA		*		1				
EOEPONIDELLA PULCHELLA	2	*					1	
PYRGO WILLIAMSONI			1			1		
QUINQUELOCULINA STALKERI		*				2		
RECURVOIDES CONTORTUS			1	1	*			
SACCAMMINA ATLANTICA						*		
TRILOCULINA TRIHEDRA		*						
REOPHAX FUSIFORMIS								1
EOPNINAELLA PULCHELLA						*		
SIGMOMORPHINA UNDULOSA		*						1
ESOSYRINX CURTA				1			*	
QUINQUELOCULINA SADKOVI							*	
AMMOTIUM CASSIS					*			
DENTALINA FROBISHERENIS			1		*			
ROSALINA TUMIDA	*	*			3			
TROCHAMMINA LOBATA							1	
MILIOLINELLA CHUKCHIENSIS					3	1	46	
MILIOLINELLA SUBROTUNDA					3	*	15	1
QUINQUELOCULINA ARCTICA					1			
FISSURINA MARGINATA								
BUCCELLA SP.					2			
OOLINA MELO					*			
SACCAMMINA SPHAERICA								
LAGENA SEMILINEATA								
MILIAMMINA FUSCA								
NONIONELLA AURICULA								
AMMODISCUS CATINUS						*		
DENTALINA PAUPERATA								
PYRGO SUBSPHAERICA								
TROCHAMMINA MACRESCENS								
TROCHAMMINA ROTALIFORMIS						1	1	
PATEORIS HAUERINOIDES								
TOTAL COUNT	319	839	148	180	288	396	499	102

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971-RELATIVE ABUNDANCES. PAGE 1

STATION	71-1	71-3	71-4	71-5	71-6
LATITUDE	694250N	693150N	692300N	690975N	691730N
LONGITUDE	1360750W	1370350W	1374000W	1373000W	1370500W
WATER DEPTH(M)	20	8	26	17	3
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	76	23	35	40	48
PROTOLPHIDIUM ORBICULARE	13	13	5	34	45
PSEUDOPOLYMRPHINA NOVANGLIAE	2	1	1		1
BUCCELLA FRIGIDA	2	4	3	2	*
TROCHAMMINA NANA			*		
ISLANDIELLA ISLANDICA	*	33	31	22	2
SPIROPLECTAMMINA BIFORMIS			*		
ISLANDIELLA TERETIS		7	4		*
ELPHIDIELLA GROENLANDICA	*				
ISLANDIELLA NORCROSSI		12	14		*
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA	2	1	*		
NONION DEPRESSULUS	1	1			
SILICOSIGMOILINA GROENLANDICA	1	*			
CASSIDELLA COMPLANATA		1			*
ELPHIDIUM SUBARCTICUM	4	2	2		
QUINQUELOCULINA SEMINULUM				*	2
RECURVOIDES TURBINATUS			1	*	*
ELPHIDIUM BARTLETTI			*		
REOPHAX CURTUS					
CIBICIDES LOBATULUS				*	
VIRGULINA SCHREIBERSIANA		*	2		
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA		*			*
ASTRONONION GALLOWAYI				*	
TEXTULARIA TORQUATA			*		
LAGENA GRACILLIMA					
EOPONIDELLA PULCHELLA			*		
NONIONELLINA LABRADORICA				*	
PYRGO WILLIAMSONI			*		
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA			*		
REOPHAX FUSIFORMIS					
EOPONIDELLA PULCHELLA					
SIGMOMORPHINA UNDULOSA			*		
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI					*
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA			*		
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA			1		
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					*
LAGENA SEMILINEATA			*		
NONIONELLA AURICULA					
TRILOCULINA SP.					*
ASTACOLUS CREPIDULUS					*
PATEORIS HAVERINOIDES		*	*		*
FISSURINA SEMIMARGINATA					
<b>TOTAL COUNT</b>	<b>827</b>	<b>1382</b>	<b>655</b>	<b>357</b>	<b>1227</b>

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES, PAGE 2

STATION	71-7	71-8	71-9	71-10	71-11
LATITUDE	692140N	692650N	690450N	693700N	694550N
LONGITUDE	1365000W	1363100W	1360800W	1355200W	1355150W
WATER DEPTH(M)	2	6	4	3	1
SPECIES					
ELPHIDIUM INCERTUM/CLAVATUM	49	70	50	50	86
PROTELEPHIDIUM ORBICULARE	49	29	49	48	14
PSEUDOPOLYMORPHINA NOVANGLIAE	1	1		2	
BUCCELLA FRIGIDA				1	
TROCHAMMINA NANA					
ISLANDIELLA ISLANDICA	*		*		
SPIROPECTAMMINA BIFORMIS					
ISLANDIELLA TERETIS			*		
ELPHIDIELLA GROENLANDICA	*			*	
ISLANDIELLA NORCROSSI			*		
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA					
NONION DEPRESSULUS					
SILICOSIGMOILINA GROENLANDICA					
CASSIDELLA COMPLANATA					
ELPHIDIUM SUBARCTICUM					
QUINQUELOCULINA SEMINULUM	*				
RECURVIDES TURBINATUS	*				
ELPHIDIUM BARTLETTI					
REOPHAX CURTUS					
CIBICIDES LOBATULUS					
VIRGULINA SCHREIBERSIANA					
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA					
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA					
EDEPONIDELLA PULCHELLA					
NONIONELLINA LABRADORICA					
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS					
EOPHAX PULCHELLA					
SIGMOMORPHINA UNDULOSA					
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUERTINOIDES					
FISSURINA SEMIMARGINATA					
TOTAL COUNT	1152	320	348	1111	28

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES. PAGE 3

STATION	71-13	71-14	71-15	71-16	71-17
LATITUDE	691433N	690800N	690800N	685660N	690150N
LONGITUDE	1362060W	1364620W	1370730W	1364450W	1363016W
WATER DEPTH(M)	0	2	4	2	2
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	69	51	50	40	
PROTELPIDIUM ORBICULARE	30	49	50	40	
PSEUDOPOLYMORPHINA NOVANGLIAE	*	*			
BUCCELLA FRIGIDA					
TRUCHAMMINA NANA					
ISLANDIELLA ISLANDICA	1	*		20	
SPIROPECTAMMINA BIFORMIS					20
ISLANDIELLA TERETIS					
ELPHIDIELLA GROENLANDICA					
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA					
NONION DEPRESSULUS					
SILICOSIGMOILINA GROENLANDICA					
CASSIDELLA COMPLANATA					
ELPHIDIUM SUBARCTICUM					
QUINQUELOCULINA SEMINULUM					
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTLETTI					
REOPHAX CURTUS					
CIBICIDES LOBATULUS	*				20
VIRGULINA SCHREIBERSIANA					
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA					
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA					
EDEPONIDELLA PULCHELLA					
NONIONELLINA LABRADORICA					
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS	*				
EOPHAX PULCHELLA					
SIGMOMORPHINA UNDULOSA					
ESOSYRIX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TRUCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA					60
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUERINOIDES					
FISSURINA SEMIMARGINATA					
<b>TOTAL COUNT</b>	<b>816</b>	<b>485</b>	<b>8</b>	<b>10</b>	<b>5</b>

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.



BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES. PAGE 4

STATION	71-19	71-20	71-22	71-23	71-24
LATITUDE	685430N	685600N	685350N	684950N	684520N
LONGITUDE	1362000W	1361600W	1360200W	1354600W	1352950W
WATER DEPTH(M)	2	2	5	1	2
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	25	67		50	100
PROTELPHIDIUM ORBICULARE		27			
PSEUDOPOLYMORPHINA NOVANGLIAE					
BUCCELLA FRIGIDA					
TROCHAMMINA NANA					
ISLANDIELLA ISLANDICA				50	
SPIROPECTAMMINA BIFORMIS					
ISLANDIELLA TERETIS	25				
ELPHIDIELLA GROENLANDICA		7			
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA					
NONION DEPRESSULUS					
SILICOSIGMOILINA GROENLANDICA					
CASSIDELLA COMPLANATA					
ELPHIDIUM SUBARCTICUM					
QUINQUELOCULINA SEMINULUM					
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTLETTI					
REOPHAX CURTUS					
CIBICIDES LOBATULUS					
VIRGULINA SCHREIBERSIANA					
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA					
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA					
EDEPONIDELLA PULCHELLA					
NONIONELLINA LABRADORICA			100		
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS					
EOPHAX PULCHELLA					
SIGHMORPHINA UNDULOSA					
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI	25				
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA	25				
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUSERINOIDES					
FISSURINA SEMIMARGINATA					
<b>TOTAL COUNT</b>	<b>4</b>	<b>15</b>	<b>1</b>	<b>2</b>	<b>4</b>

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FOMAMS-HELICOPTER 1971, RELATIVE ABUNDANCES. PAGE 5

STATION LATITUDE LONGITUDE WATER DEPTH(M)	71-25 69°50'6N 135°10'5W 0	71-27 69°50'00N 134°32'00W 1	71-31 69°40'50N 137°40'00W 32	71-32 69°44'50N 135°24'00W 6	71-33 69°45'00N 134°54'00W 4
SPECIES					
ELPHIDIUM INCERTUM/CLAVATUM	99	19	20	67	68
PROTELPHIDIUM ORHICULARE	2	74	10	32	28
PSEUDOPOLYMORPHINA NOVANGLIAE			1		
BUCCELLA FRIGIDA			*	1	
TROCHAMMINA NANA					
ISLANDIELLA ISLANDICA			52		1
SPIROPECTAMMINA BIFORMIS					
ISLANDIELLA TERETIS			4		
ELPHIDIELLA GROENLANDICA			1		
ISLANDIELLA NORCROSSI			12		
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA					
NONION DEPRESSULUS					3
SILICOSIGMOILINA GROENLANDICA			*		
CASSIDELLA COMPLANATA			*		
ELPHIDIUM SUBARCTICUM		7			
QUINQUELOCULINA SEMINULUM			*		
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTLETTI					
REOPHAX CURTUS					
CIBICIDES LOBATULUS					
VIRGULINA SCHREIBERSIANA			1		
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA					
ASTRONONTON GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA					
EOEPONIDELLA PULCHELLA					
NONIONELLINA LABRADORICA					
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS					
EOPNINAELLA PULCHELLA					
SIGMOMORPHINA UNDULOSA					
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA			*		
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUERINOIDES					
FISSURINA SEMIMARGINATA					
TOTAL COUNT	66	419	852	180	125

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES, PAGE 6

STATION	71-34	71-35	71-36	71-37	71-38
LATITUDE	695000N	694100N	694650N	695430N	694680N
LONGITUDE	1343000W	1325250W	1325050W	1324900W	1320400W
WATER DEPTH(M)	4	2	8	10	3
SPECIES					
ELPHIDIUM INCERTUM/CLAVATUM	38	32	74	64	72
PROTELEPHIDIUM ORBICULARE	25	61	17	24	15
PSEUDOPOLYMORPHINA NOVANGLIAE		4	2	4	1
BUCCELLA FRIGIDA		2	3	1	3
TROCHAMMINA NANA					
ISLANDIELLA ISLANDICA					
SPIROPECTAMMINA BIFORMIS					
ISLANDIELLA TERETIS					
ELPHIDIELLA GROENLANDICA	13		1	1	3
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO	13				
BUCCELLA INUSITATA			1	1	1
NONION DEPRESSULUS			3	2	4
SILICOSIGMOILINA GROENLANDICA					
CASSIDELLA COMPLANATA					
ELPHIDIUM SUBARCTICUM				2	2
QUINQUELOCULINA SEMINULUM				*	
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTLETTI					
REOPHAX CURTUS					
CIBICIDES LOBATULUS					
VIRGULINA SCHREIBERSIANA					
MELONIS ZAANDAMI					
PAKAFISSURINA HIMATIOSTOMA					
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA				1	
EOEPONIDELLA PULCHELLA					
NONIONELLINA LABRADORICA					
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS	13				
EOPNINAELLA PULCHELLA					
SIGMOMORPHINA UNDULOSA					
ESOSYRIX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUERINOIDES				*	
FISSURINA SEMIMARGINATA					
TOTAL COUNT	8	93	210	635	284

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES. PAGE 7

STATION	71-39	71-40	71-42	71-43	71-44
LATITUDE	695950N	700900N	700440N	701225N	700850N
LONGITUDE	1320300W	1320300W	1311250W	1311300W	1304300W
WATER DEPTH(M)	6	11	12	24	1
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	64	78	68	65	43
PROTELEPHIDIUM ORBICULARE	20	12	13	12	14
PSEUDOPOLYMORPHINA NOVANGLIAE	1	2	2	2	
BUCCELLA FRIGIDA	2	2	3	4	
TROCHAMMINA NANA					
ISLANDIELLA ISLANDICA	*	2		8	
SPIROPECTAMMINA BIFORMIS			1		
ISLANDIELLA TERETIS		*			
ELPHIDIELLA GROENLANDICA	1	*	*	*	
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA	1	1	1	1	
NONION DEPRESSULUS	7		7	2	14
SILICOSIGMOILINA GROENLANDICA		*		*	
CASSIDELLA COMPLANATA					
ELPHIDIUM SUBARCTICUM	2	1	2	3	29
QUINQUELOCULINA SEMINULUM		*	1		
RECURVOIDES TURBINATUS	*				
ELPHIDIUM BARTLETTI				*	
REOPHAX CURTUS					
CIBICIDES LOBATULUS		*			
VIRGULINA SCHREIBERSIANA		*			
MELONIS ZAANDAMI		*			
PARAFISSURINA HIMATIOSTOMA			*	*	
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA					
LAGENA GRACILLIMA		*		*	
EOEPONIDELLA PULCHELLA	*		2	1	
NONIONELLA LABRADORICA					
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI				1	
SACCAMMINA ATLANTICA					
TRILOCULINA TRIHEDRA					
REOPHAX FUSIFORMIS					
EOPNINAEELLA PULCHELLA					
SIGMOMORPHINA UNDULOSA					
ESOSYRIX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.					
EGGERELLA ADVENA					
FISSURINA LUCIDA			*		
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA	2				
TRILOCULINA SP.				*	
ASTACOLUS CREPIDULUS					
PATEORIS HAUERINOIDES			*		
FISSURINA SEMIMARGINATA					
<b>TOTAL COUNT</b>	<b>367</b>	<b>742</b>	<b>1545</b>	<b>678</b>	<b>7</b>

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971, RELATIVE ABUNDANCES. PAGE 8

STATION	71-45	71-46	71-47	71-48	71-49
LATITUDE	701525N	702450N	703000N	702450N	701300N
LONGITUDE	1300500W	1300750W	1301100W	1284750W	1284150W
WATER DEPTH(M)	8	7	20	13	12
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	39	45	43	46	56
PROTOLPHIDIUM ORBICULARE	15	24	17	25	14
PSEUDOPOLYMPHINA NOVANGLIAE	5	3	1	2	2
BUCCELLA FRIGIDA	5	3	6	6	6
TROCHAMMINA NANA			*		
ISLANDIELLA ISLANDICA		1	9		1
SPIROPECTAMMINA BIFORMIS	*	1	6	1	
ISLANDIELLA TERETIS			*		
ELPHIDIELLA GROENLANDICA	1	1	*	1	2
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA	1	1	1	2	2
NONION DEPRESSULUS	9	6	2	4	4
SILICOSIGMOILINA GROENLANDICA	1		*		
CASSIDELLA COMPLANATA			*		
ELPHIDIUM SUBARCTICUM	4	5	3	8	2
QUINQUELOCULINA SEMINULUM	2	2	1	1	1
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTILETTI		1	2		1
REOPHAX CURTUS	*				
CIBICIDES LOBATULUS					
VIRGULINA SCHREIBERSIANA		1	*		
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA			1		*
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA			2		
LAGENA GRACILLIMA	*		*		
EOPONIDELLA PULCHELLA	14	2	2	3	10
NONIONELLINA LABRADORICA			*		
PYRGO WILLIAMSONI					
QUINQUELOCULINA STALKERI			1		
SACCAMMINA ATLANTICA	*	1	*		
TRILOCULINA TRIHEDRA			1		
REOPHAX FUSIFORMIS	*				
EOPHAX PULCHELLA			*		
SIGMOMORPHINA UNDULOSA			1		
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI					
AMMOTIUM CASSIS					
DENTALINA BAGGI		1	*		
ROSALINA TUMIDA	*	2	*		
TROCHAMMINA LOBATA	4	1		1	
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA					
GORDIOSPIRA ARCTICA					
BUCCELLA SP.		1			
EGGERELLA ADVENA					
FISSURINA LUCIDA					
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUKERINOIDES			*		
FISSURINA SEMIMARGINATA			*		
TOTAL COUNT	588	157	590	214	380

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.

BEAUFORT SEA FORAMS-HELICOPTER 1971:RELATIVE ABUNDANCES. PAGE 9

STATION	71-50	71-51	71-52	71-53	71-65
LATITUDE	69°29'50N	69°6'00N	69°51'25N	69°57'50N	69°15'00N
LONGITUDE	130°34'00W	130°10'00W	129°14'00W	129°44'50W	134°10'00W
WATER DEPTH(M)	8	10	10	14	10
<b>SPECIES</b>					
ELPHIDIUM INCERTUM/CLAVATUM	6	63	33	72	77
PROTOLPHIDIUM ORBICULARE	1	14	44	12	9
PSEUDOPOLYMORPHINA NOVANGLIAE	1	2	2	2	5
BUCCELLA FRIGIDA	6	2	1	8	9
TROCHAMMINA NANA	78	*	4	*	
ISLANDIELLA ISLANDICA				*	
SPIROPECTAMMINA BIFORMIS			1		
ISLANDIELLA TERETIS					
ELPHIDIELLA GROENLANDICA	*	*		*	
ISLANDIELLA NORCROSSI					
CRIBROSTOMOIDES CRASSIMARGO					
BUCCELLA INUSITATA	3			1	
NONION DEPRESSULUS	*		2		
SILICOSIGMOILINA GROENLANDICA			1	*	
CASSIDELLA COMPLANATA		1			
ELPHIDIUM SUBARCTICUM					
QUINQUELOCULINA SEMINULUM			*		
RECURVOIDES TURBINATUS					
ELPHIDIUM BARTLETTI					
NEOPHAX CURTUS					
CIBICIDES LOBATULUS			1		
VIRGULINA SCHREIBERSIANA					
MELONIS ZAANDAMI					
PARAFISSURINA HIMATIOSTOMA					
ASTRONONION GALLOWAYI					
TEXTULARIA TORQUATA			1		
LAGENA GRACILLIMA					
EOEPONIDELLA PULCHELLA		5	4	1	
NONIONELLINA LASPADORICA	*				
PYRGO WILLIAMSONI		*		*	
QUINQUELOCULINA STALKERI					
SACCAMMINA ATLANTICA	1				
TRILOCULINA TRIHEDRA					
NEOPHAX FUSIFORMIS			*		
EOPINNAELLA PULCHELLA		9	6	3	
SIGMOMORPHINA UNDULOSA					
ESOSYRINX CURTA					
QUINQUELOCULINA SADKOVI		3			
AMMOTIUM CASSIS	3				
DENTALINA BAGGI					
ROSALINA TUMIDA					
TROCHAMMINA LOBATA					
DENTALINA ITTAI					
QUINQUELOCULINA ARCTICA				*	
GORDIOSPIRA ARCTICA	*			*	
BUCCELLA SP.					
EGGERELLA ADVENA	*				
FISSURINA LUCIDA				*	
ANOMALINA GLOBULOSA					
BOLIVINA PSEUDOPUNCTATA					
LAGENA SEMILINEATA					
NONIONELLA AURICULA					
TRILOCULINA SP.					
ASTACOLUS CREPIDULUS					
PATEORIS HAUERINOIDES		*			
FISSURINA SEMIMARGINATA					
<b>TOTAL COUNT</b>	<b>272</b>	<b>627</b>	<b>332</b>	<b>720</b>	<b>22</b>

\* INDICATES SPECIES PRESENT BUT LESS THAN ONE PERCENT ABUNDANCE.