Data Article

Multiyear data on benthic foraminifera in a glaciated fjord of Svalbard

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Abstract

Glaciers in the fjords of Svalbard have been receding over last decades. Tempelfjorden, a typical glaciated fjord in West Spitsbergen (78°24′06″ N, 17°02′30″ E), has been sampled in summer 1995 and 2001–2007 for modern benthic foraminifera. We have normalized the abundances and unified the taxonomy of all these published and unpublished data sets and then compiled the record of foraminiferal assemblages changing over years into a comprehensive database. The record includes data on living and dead abundances of benthic foraminiferal species in the surface sediments (0–2 cm) and downcore abundances of living foraminifera (only for 2004). This database portrays benthic foraminifera, this key group of microfossils, in a gradually changing Arctic environment.

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Specifications Table

| Subject area                  | Earth and Planetary Sciences |
|------------------------------|------------------------------|
| More specific subject area   | Benthic Foraminifera         |

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Type of data | Tables, figure
---|---
How data was acquired | Sampled in summer 1995 and 2001–2007 using box or interface corers; samples stained with Rose Bengal; live and dead benthic foraminifera identified to the species level and counted.
Data format | Tables with densities of live and dead foraminifera; one table listing the dates, locations and water depths of sampling stations.
Experimental factors | –
Experimental features | –
Data source location | Tempelfjorden, the Svalbard archipelago
Data accessibility | The data are available with this article

Value of the data

- The data make it possible to link the multiyear dynamics of benthic foraminiferal assemblages and glacier retreat.
- The data allow assessing the response of foraminiferal assemblages to surge events of the glacier in the fjord head.
- The data on vertical distribution of live benthic foraminifera in 10 cm cores can be used to reveal species-specific microhabitat preferences in a glaciated environment.

1. Data

Fjords are natural archives of sediments that can provide high-resolution records of late- and postglacial palaeoceanographic changes. Today, subpolar fjords are often affected by glacial sedimentation [1] with glaciers delivering substantial amount of mineral matter. Turbid meltwater is the main sources of environmental stress for the benthic organisms. This stress affects the structure of modern benthic assemblages [2–5]. Studies of present-day processes in subpolar glaciated fjords are essential for accurate interpretation of past environmental records [6].

Two glaciers terminate in the head of Tempelfjorden, the tidewater Tunabreen merged with the land-based Von Postbreen (see [4] and [8] for the detail). Both glaciers have experienced several surges over the last two centuries [7]. Previous surveys recorded substantial changes in benthic foraminiferal assemblages along the Tempelfjorden in 1995 and 2006 [4,8]. The data presented here cover the modern surface and downcore distribution of living and dead benthic foraminifera in Tempelfjorden in years 1995 and 2001–2007. The species list is taxonomically verified, and all abundances are normalized to 10 cm$^3$.

The dataset consists of:
1. A station list showing sampling dates, locations and water depths (Table 1),
2. Abundances of living and dead foraminifera (size fraction $> 0.125$ mm) from surface samples along the Tempelfjorden obtained in summer 1995 and 2001–2007 including numbers of counted
specimens per sample, percentage of calcareous species and percentage of the specimens \( > 1 \text{ mm} \) (Tables 2–10).

3. Downcore distribution of living and dead foraminiferans (size fraction \( > 0.125 \text{ mm} \)) in the upper 10 cm of bottom sediments from 4 stations sampled in 2004 (Tables 11–14).

2. **Experimental design, materials and methods**

2.1. **Sampling and laboratory procedure**

Samples were obtained during 8 summer cruises of research vessels to Tempelfjorden in 1995 and 2001–2007 (Fig. 1, Table 1). Sediment samples were retrieved using a box corer or interface corer. A volume of 80 to 200 cm\(^3\) of seafloor sediments from the 0–2-cm interval was sampled at each station. Additionally, in 2004, four short cores were obtained to reveal the vertical distribution of dominant and common species at different distances from the glaciers in the fjord head. Samples were preserved with 96% alcohol solution of Rose Bengal dye (1 g/L) in order to distinguish living specimens from dead. In the laboratory, samples were washed on sieves with the 0.125 mm and 1 mm mesh sizes and dried in an oven at 80 °C. Dry samples were split using a dry splitter. From each split a minimum of 300 living and dead foraminifera were identified to the lowest possible taxon and counted under a dissecting microscope. Tables 2–14 show pulled data for both size fractions (0.125 mm and 1 mm) with the proportion of larger fraction provided at the bottom of each table.
Table 1
Station list.

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 53  | 78°26.25'  | 17°21.49'   | 46              | 8/23/1995  |
| 54  | 78°26.00'  | 17°17.00'   | 40              | 8/23/1995  |
| 55  | 78°25.42'  | 17°13.00'   | 37              | 8/23/1995  |
| 57  | 78°25.05'  | 17°08.26'   | 67              | 8/23/1995  |
| 58  | 78°23.53'  | 16°58.44'   | 99              | 8/23/1995  |
| 59  | 78°22.05'  | 16°51.08'   | 103             | 8/23/1995  |
| 60  | 78°22.01'  | 16°40.26'   | 97              | 8/23/1995  |
| 61  | 78°21.57'  | 16°28.12'   | 50              | 8/23/1995  |

1995

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 19  | 78°24.89'  | 17°08.21'   | 72              | 7/6/2002   |
| 18  | 78°24.48'  | 16°58.98'   | 92              | 7/6/2002   |
| 17  | 78°22.19'  | 16°54.08'   | 97              | 7/6/2002   |
| 16  | 78°21.99'  | 16°40.61'   | 49              | 7/6/2002   |

2002

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 242 | 78°25.98'  | 17°09.00'   | 37              | 7/9/2004   |
| 241 | 78°25.52'  | 17°12.63'   | 30              | 7/9/2004   |
| 240 | 78°25.14'  | 17°07.88'   | 71              | 7/9/2004   |
| 239 | 78°23.63'  | 16°57.86'   | 101             | 7/9/2004   |
| 238 | 78°21.87'  | 16°51.13'   | 100             | 7/9/2004   |
| 237 | 78°22.05'  | 16°39.72'   | 87              | 7/8/2004   |
| 236 | 78°21.63'  | 16°27.68'   | 65              | 7/8/2004   |

2003

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 61  | 78°26.26'  | 17°22.84'   | 25              | 7/22/2003  |
| 60  | 78°26.26'  | 17°22.72'   | 31              | 7/22/2003  |
| 59  | 78°26.02'  | 17°16.89'   | 40              | 7/22/2003  |
| 58  | 78°25.37'  | 17°12.90'   | 26              | 7/22/2003  |
| 57  | 78°25.05'  | 17°08.00'   | 73              | 7/22/2003  |
| 55  | 78°23.50'  | 16°58.82'   | 94              | 7/22/2003  |
| 54  | 78°21.95'  | 16°50.91'   | 101             | 7/22/2003  |
| 53  | 78°22.12'  | 16°49.28'   | 99              | 7/22/2003  |
| 52  | 78°21.54'  | 16°28.17'   | 63              | 7/22/2003  |

2004

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 242 | 78°25.98'  | 17°09.00'   | 37              | 7/9/2004   |
| 241 | 78°25.52'  | 17°12.63'   | 30              | 7/9/2004   |
| 240 | 78°25.14'  | 17°07.88'   | 71              | 7/9/2004   |
| 239 | 78°23.63'  | 16°57.86'   | 101             | 7/9/2004   |
| 238 | 78°21.87'  | 16°51.13'   | 100             | 7/9/2004   |
| 237 | 78°22.05'  | 16°39.72'   | 87              | 7/8/2004   |
| 236 | 78°21.63'  | 16°27.68'   | 65              | 7/8/2004   |

2005

| St. | Latitude N | Longitude E | Water depth [m] | Date       |
|-----|------------|-------------|-----------------|------------|
| 013 | 78°26.23'  | 17°19.51'   | n/a             | 7/8/2005   |
| 012 | 78°25.96'  | 17°17.11'   | n/a             | 7/8/2005   |
| 011 | 78°25.42'  | 17°12.96'   | n/a             | 7/8/2005   |
| 010 | 78°25.04'  | 17°08.51'   | n/a             | 7/8/2005   |
| 009 | 78°23.57'  | 16°58.52'   | n/a             | 7/8/2005   |
| 008 | 78°22.01'  | 16°51.39'   | n/a             | 7/8/2005   |
| 007 | 78°22.05'  | 16°40.72'   | n/a             | 7/8/2005   |
| 006 | 78°21.58'  | 16°28.27'   | n/a             | 7/8/2005   |
| St. | Latitude N | Longitude E | Water depth [m] | Date     |
|-----|------------|-------------|-----------------|----------|
| 188 | 78°26.45'  | 17°18.97'   | 40              | 8/4/2006 |
| 186 | 78°25.96'  | 17°17.27'   | 36              | 8/4/2006 |
| 190 | 78°25.51'  | 17°13.81'   | 38              | 8/4/2006 |
| 184 | 78°24.96'  | 17°08.51'   | 71              | 8/4/2006 |
| 182 | 78°23.34'  | 16°58.97'   | 88              | 8/4/2006 |
| 180 | 78°22.02'  | 16°50.94'   | 101             | 8/4/2006 |
| 178 | 78°22.11'  | 16°40.56'   | 95              | 8/4/2006 |
| 191 | 78°21.68'  | 16°28.15'   | 57              | 8/4/2006 |

| St. | Latitude N | Longitude E | Water depth [m] | Date     |
|-----|------------|-------------|-----------------|----------|
| 8   | 78°26.24'  | 17°19.16'   | 45              | 7/3/2007 |
| 7   | 78°26.00'  | 17°17.00'   | 40              | 7/3/2007 |
| 6   | 78°25.42'  | 17°13.00'   | 37              | 7/2/2007 |
| 5   | 78°25.05'  | 17°08.26'   | 67              | 7/2/2007 |
| 4   | 78°23.53'  | 16°58.44'   | 99              | 7/2/2007 |
| 3   | 78°22.05'  | 16°51.08'   | 103             | 7/2/2007 |
| 2   | 78°22.10'  | 16°40.26'   | 97              | 7/2/2007 |
| 1   | 78°21.57'  | 16°28.12'   | 50              | 7/2/2007 |
### Table 2
Densities of benthic foraminifera from sediment-surface samples retrieved in 1995 (living only), 2001 (living only) and 2002 (living and dead).

| Year | Station no. | Live foraminifera (N) | Live foraminifera (N) | Live foraminifera (N) | Dead foraminifera (N) |
|------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
|      | 61 60 59 58 57 55 54 53 | 765 764 762 761 760 759 758 757 | 16 17 18 19 | 16 17 18 19 | 16 17 18 19 |
| 1995 | Adercotryma glomerata | 1.6 | 2.8 | 3.7 | 1.7 | 2.0 | 0.4 | 0.6 | 0.2 |
|      | Ammodiscus catinus sp. | 0.6 | 4.8 | 2.5 | 1.7 | 0.7 | 0.7 | 0.2 | 0.1 | 0.8 |
|      | Amnomium sp. | 6.2 | 0.4 | 0.1 | 0.7 | 0.7 | 0.2 | 0.8 | 0.2 |
|      | Angulogerina fluens | 3.9 | 2.5 | 2.6 | 0.5 | 0.6 | 4.9 | 0.2 | 0.8 | 0.2 |
|      | Astrononion gallowyi | 0.6 | 9.0 | 4.5 | 2.5 | 1.8 | 2.6 | 2.6 | 1.6 | 5.4 | 3.4 | 2.2 |
|      | Buccella frigida | 1.0 | 22.8 | 34.0 | 308.8 | 22.8 | 18.4 | 10.5 | 1.6 | 2.6 | 2.6 | 19.1 |
|      | Buccella tenerrima | 1.2 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Cassidulina reniforme | 1.0 | 22.8 | 34.0 | 308.8 | 22.8 | 18.4 | 10.5 | 1.6 | 2.6 | 2.6 | 19.1 |
|      | Cibicides lobatus | 0.3 | 26.9 | 1.0 | 1.9 | 0.3 | 2.5 | 2.0 | 1.4 | 0.3 | 0.7 | 0.2 | 0.2 | 0.1 |
|      | Cornuspira foliacea | 1.2 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Cornuspira sp. | 1.2 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Cuneata arctica | 0.6 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Cyclogyrus involvens | 1.3 | 3.4 | 0.7 | 2.4 | 3.7 | 0.3 | 0.3 | 0.2 |
|      | Dentalina | 1.2 | 1.7 | 0.1 | 1.2 | 1.7 | 0.1 | 1.2 | 1.7 | 0.1 |
|      | Dentalina itai | 0.6 | 3.4 | 0.7 | 2.4 | 3.7 | 0.3 | 0.3 | 0.2 |
|      | Dentalina pauperata | 1.3 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Dentalina spp. | 1.2 | 1.7 | 0.1 | 1.2 | 1.7 | 0.1 | 1.2 | 1.7 | 0.1 |
|      | Elphidiiidae sp. | 1.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 |
|      | Elphidium bartletti | 0.3 | 26.9 | 1.0 | 1.9 | 0.3 | 2.5 | 2.0 | 1.4 | 0.3 | 0.7 | 0.2 | 0.2 | 0.1 |
|      | Elphidium excavatum f. clavata | 1.3 | 23.5 | 40.5 | 17.6 | 53.3 | 34.6 | 1.9 | 19.7 | 26.0 | 22.2 | 9.8 | 8.0 | 1.1 | 7.8 | 26.8 | 11.6 | 5.4 | 2.5 |
|      | Elphidium incertum | 5.3 | 1.4 | 1.7 | 0.8 | 0.3 | 2.4 | 0.2 | 0.2 | 0.5 |
|      | Elphidium subarcticum | 0.3 | 3.5 | 0.3 | 3.8 | 0.3 | 3.5 | 0.3 | 3.8 |
|      | Epistominella sp. | 0.3 | 3.5 | 0.3 | 3.8 | 0.3 | 3.5 | 0.3 | 3.8 |
|      | Fissurina laevigata | 0.3 | 3.5 | 0.3 | 3.8 | 0.3 | 3.5 | 0.3 | 3.8 |
|      | Fissurina marginata | 0.3 | 3.5 | 0.3 | 3.8 | 0.3 | 3.5 | 0.3 | 3.8 |
| Species                        | 1.2 | 0.7 | 1.3 | 2.0 | 1.6 | 1.4 | 0.4 |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Fissurina spp.                |     |     |     |     |     |     |     |
| Gyroidina laevigata           | 1.0 | 0.7 |     |     |     |     |     |
| Globobulimina auriculata      |     |     |     |     |     |     |     |
| Globobulimina turgida         |     |     |     |     |     |     |     |
| Guttulina sp.                 | 2.3 | 6.2 | 6.5 | 2.5 | 1.6 | 0.7 | 0.2 |
| Haynesina orbiculare          |     |     |     |     |     |     |     |
| Hippocrepina indivisa         | 1.9 |     |     |     |     |     | 14.8|
| Hyperammina subnodosa         | 0.3 | 1.4 |     |     |     |     | 9.5 | 2.8 |
| Islandiella islandica         | 3.2 | 53.8| 28.0| 28.4| 3.9 |     |     |     |
| Islandiella norcrossi         |     |     |     |     |     |     |     |
| f. helenae                    |     |     |     |     |     |     |     |
| Islandiella norcrossi         | 2.3 |     |     |     |     |     |     |
| f. norcrossi s.l.             |     |     |     |     |     |     |     |
| Labrospira crassimargo        | 12.0| 100.8| 39.0| 73.7| 0.5 |     |     |
| Labrospira jeffreisi          | 1.3 |     |     |     |     |     | 1.4 |
| Lagena distoma                | 0.3 |     |     |     |     |     |     |
| Lagena gracilima              |     |     |     |     |     |     | 0.6 |
| Lagena laevis                 | 0.3 |     |     |     |     |     |     |
| Lagena semilineata            |     |     |     |     |     |     | 1.3 |
| Lagena spp.                   | 0.3 |     |     |     |     |     | 1.2 |
| Lagena sulcata                | 0.3 |     |     |     |     |     | 0.7 |
| Melonis barleeanus            |     |     |     |     |     |     |     |
| Miliolidae spp.               | 0.6 |     |     |     |     |     |     |
| Miliolinella sp. 1            |     |     |     |     |     |     | 0.4 |
| Miliolinella sp. 2            |     |     |     |     |     |     | 0.4 |
| Miliolinella subrotunda       | 0.7 |     | 6.9 | 0.5 |     | 0.3 | 0.1 |
| Nodulina? sp.                 |     |     |     |     |     |     | 0.6 |
| Nonionellina labradorica      | 16.5| 24.8| 44.0| 0.6 | 2.6 |     |     |
| Polymorphinhidae spp.         | 1.2 |     | 7.0 | 0.7 | 1.3 | 0.2 |     |
| Proteonina atlantica          | 3.9 |     | 0.7 |     |     |     |     |
| Proteonina sp.                | 1.9 |     | 5.5 | 0.6 |     |     |     |
| Psammosphaera sp.             |     |     |     |     |     |     |     |
| Pyrgo williamsoni             | 2.9 | 7.6 | 19.5| 33.4| 7.8 | 12.7| 8.6 | 8.0 | 5.7 | 17.0| 1.6 | 1.2 | 0.8 | 1.7 | 0.4 | 0.4 | 0.2 |
| Year          | 1995 | 2001 | 2002 | 1995 | 2001 | 2002 |
|--------------|------|------|------|------|------|------|
| Live foraminifera (N) | 53  | 54  | 55  | 57  | 58  | 59  |
| Station no.  | 61  | 60  | 59  | 58  | 57  | 56  |
| Quinqueloculina *"elongata"* | 1.0 | 5.5 | 7.0 | 0.6 | 2.3 |      |
| Quinqueloculina *elongata?* | 0.3 | 1.0 | 1.9 | 0.5 | 0.7 |      |
| Quinqueloculina *seminula* | 8.6 | 0.7 | 4.3 | 0.4 | 0.4 |      |
| Quinqueloculina sp. | 1.2 | 1.7 | 5.3 | 0.4 | 0.4 |      |
| Quinqueloculina *stalker* | 10.3 | 8.3 | 13.0 | 3.8 | 7.6 | 20.5 |
| Recurvoides sp. | 1.3 | 20.0 | 3.5 | 5.2 | 2.5 |      |
| Recurvoides *turbinatus* | 13.5 | 36.5 | 28.7 | 0.1 | 3.6 | 19.1 |
| Reophax cf. *fusiformis* | 2.0 | 4.8 | 0.4 | 0.4 | 2.0 |      |
| Reophax *dentaliformis* | 42.4 | 3.5 | 5.0 | 1.0 | 30.8 | 19.1 |
| Reophax sp.1 | 1.6 | 46.2 | 16.5 |      |      |      |
| Rhabdammina *abyssorum* | 11.6 |      |      |      |      |      |
| Robertina arctica | 3.7 | 12.2 | 0.7 |      |      | 0.1  |
| Rosalina sp. | 9.8 | 7.0 |      |      | 1.6 | 0.1 |
| Silicosigmoidina *groenlandica* | 4.9 |      | 0.8 | 0.8 | 0.2 |      |
| Siphonaperta *agglutinata* |      |      |      |      |      |      |
| Spiroplectammina *biformis* | 1.0 | 2.5 | 0.3 | 0.8 | 2.5 | 0.7 |
| Stainforthia *feylingi* |      |      |      |      |      |      |
| Stainforthia *loebelchi* | 1.0 | 11.7 | 0.5 | 8.8 | 1.2 |      |
| Textularia *earlandi* | 0.3 | 0.7 | 3.0 | 3.2 | 0.3 | 2.1 |
| Triloculina *tribedra* | 0.3 | 0.7 | 4.5 | 1.3 | 0.8 | 3.5 |
| Trochammina *nana* | 1.3 |      |      |      |      |      |

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| Trochamminella atlantica calcareous indefinite |
|-----------------------------------------------|
| Benthics/10 cm$^3$ | 144.2 | 421.7 | 279.4 | 513.5 | 100.4 | 70.0 | 20.2 | 43.1 | 360.8 | 588.0 | 259.3 | 237.9 | 128.0 | 40.1 | 67.2 | 22.7 | 91.2 | 42.8 | 21.6 | 43.1 | 131.6 | 80.8 | 59.2 | 32.3 |
| Benthics counted  | 459   | 612   | 666   | 817   | 389   | 99   | 117  | 457  | 416   | 369   | 389   | 333   | 384   | 341   | 1210 | 341  | 398  | 228  | 214  | 216  | 431  | 329  | 405  | 296  | 323  |
| No. of species    | 43    | 30    | 22    | 27    | 17    | 7    | 4    | 5    | 38    | 18    | 22    | 15    | 17    | 10    | 6    | 5    | 14   | 19   | 16   | 22   | 20   | 25   | 22   | 19   |
| % calcareous      | 43    | 55    | 77    | 83    | 98    | 97   | 100  | 95   | 38    | 28    | 52    | 98    | 97    | 100   | 98   | 86   | 61   | 71   | 90   | 66   | 78   | 77   | 95   |
| % > 1 mm          | 0     | 0.2   | 0     | 0     | 0     | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|------------|----------------------|----------------------|
|            | 61  60  59  58  57  55  54  53  52 | 61  60  59  58  57  55  54  53  52 |
| **Adercotryma glomerata** | 7.6 1.5 | 9.8 2.2 |
| **Ammodiscus sp.** | 2.2 2.8 | 2.2 0.5 |
| **Ammotium cassis** | 15.2 | 10.8 |
| **Angulogerina fluens** | 7.6 | |
| **Astaclus hyalacculus** | 0.3 | 1.1 0.8 0.7 0.0 |
| **Astronomina sp.** | 2.2 0.3 | 7.6 0.3 0.1 0.0 |
| **Buccella frigida** | 3.4 4.4 5.6 0.1 | 2.8 1.7 0.0 |
| **Buccella tenerrima** | 2.2 |
| **Cassidulina reniforme** | 1.1 42.3 19.9 22.7 38.0 2.2 1.5 9.9 3.1 | 41.2 4.6 3.9 9.0 35.2 8.0 13.9 1.0 1.6 |
| **Cibicides lobatulus** | 4.3 0.6 | 3.3 0.3 |
| **Cornuspira foliacea** | 0.0 0.0 | 0.0 |
| **Cupressia sp.** | 0.0 0.3 0.1 0.1 | 2.2 0.3 |
| **Dentalina baggi** | 0.0 0.0 | 0.0 |
| **Dentalina fabriherensis** | 1.1 | 0.1 |
| **Dentalina ittai** | 0.1 | |
| **Dentalina pauperata** | 0.1 0.1 | 0.1 0.1 |
| **Dentalina spp.** | 0.3 | 0.0 |
| **Egerella advena** | 1.1 | |
| **Elphidium bartletti** | 2.3 7.2 3.4 0.1 0.0 | 5.4 0.3 0.0 |
| **Elphidium excavatum** | 16.3 8.0 12.1 4.1 21.4 11.6 0.2 0.6 0.8 190.9 12.6 13.8 11.6 5.9 3.0 1.3 0.2 0.5 |
| **Elphidium excavatum f. clavata** | 2.2 1.5 0.1 |
| **Elphidium incertum** | 2.2 1.1 |
| **Elphidium subarcticum** | 1.1 |
| **Epistominella vitrea** | 1.1 |
| **Fissurina spp.** | 2.2 |
| **Cassidulina reniforme** | 1.1 3.3 |
| **Islandiella norcrossi f. helenae** | 10.8 42.3 25.9 15.7 8.1 0.5 16.3 2.3 3.6 1.8 0.2 |
| **Islandiella norcrossi f. norcrossi** | 2.2 1.1 0.6 1.5 0.1 | 8.7 0.6 1.8 0.2 0.1 |
| **Islandiella norcrossi s.l.** | 3.9 1.5 0.1 | 1.1 0.6 1.3 0.1 0.0 |
| **Labrospira crassimargo** | 36.9 90.4 119.2 113.5 6.1 0.1 | 53.5 0.1 1.7 12.2 1.5 |
| **Labrospira jeffreisi** | 0.3 | 2.2 |
| Species                        | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|-------------------------------|-----------------|------------------|----------------|--------------|---------|
| Lagena spp.                   | 0.3             | 0.1              | 1.1            |              |         |
| Miloliidae spp.               | 0.1             |                  | 0.1            |              |         |
| Milolinella sp. 1             | 0.5             | 0.1              | 1.1            |              |         |
| Milolinella sp. 2             | 4.6             | 2.8              | 2.2            |              |         |
| Nonionella atlantica          |                 |                  | 2.2            |              |         |
| Nonionella turgida digitata   |                 |                  | 2.2            |              |         |
| Nonionellina labradorica      | 9.8             | 19.4             | 27.6           | 3.6          | 0.8     | 0.2 |
| Polymorphinidae spp.          | 1.1             | 2.3              | 0.1            |              |         |
| Psammomosphaera sp.           |                 |                  | 0.3            |              |         |
| Pyrgo williamsoni             | 2.2             | 3.5              | 6.1            | 11.1         | 3.9     | 0.3 |
| Quinqueloculina seminula      | 2.2             | 1.1              | 0.5            | 1.2          | 3.2     |     |
| Quinqueloculina sp.           | 2.3             | 0.5              | 0.3            |              |         |
| Quinqueloculina stalkeri      | 2.2             | 5.7              | 1.7            | 0.1          | 0.4     | 2.1 |
| Recurvoides turbinatus        | 36.9            | 73.1             | 23.2           | 41.3         | 0.1     |     |
| Reophax atlantica             | 7.6             | 0.3              |              | 4.3          |         |     |
| Reophax dentaliformis         | 1.1             | 0.3              |              | 6.5          | 0.3     |     |
| Reophax scoriatus s.l.        | 41.3            | 4.6              | 2.8            | 4.6          | 0.2     |     |
| Robertina arctica             | 15.2            | 3.4              | 5.0            |              |         |     |
| Saccammina sp. (‘silver Saccamina’) | 5.4       |                  | 0.2            | 0.1          |         |     |
| Saccamminidae spp.            |                 |                  | 0.3            |              |         |     |
| Silicosigmoilina groenlandica | 10.8            | 5.7              | 3.9            | 1.0          | 0.5     |     |
| Siphonaperta agglutinata      | 9.8             |                  | 1.1            |              |         |     |
| Spiroplectammina biformalis   |                 |                  | 0.1            |              |         |     |
| Stainforthia loeblichii       | 2.2             | 0.6              | 2.1            |              |         |     |
| Textularia earlandi           |                 |                  | 0.6            |              |         |     |
| Triloculina trihedra          | 1.1             | 1.0              | 0.3            | 0.8          |         |     |
| Trochammina bullata           | 1.1             |                  | 1.1            |              |         |     |
| Trochammina nana              | 9.8             | 0.3              | 4.3            |              |         |     |
| Trochamminella atlantica      | 3.3             |                  | 6.5            |              |         |     |
| agglutinated indefinite      |                 | 0.5              | 1.7            | 0.1          |         |     |
| calcareous indefinite         |                 | 2.1              | 0.1            | 0.1          |         |     |
| Benthics/10 cm³                | 279.6           | 320.2            | 264.9          | 244.9        | 93.7    | 19.5 |
| Benthics counted              | 437             | 285              | 483            | 950          | 1453    | 321  |
| No. of species                | 34              | 21               | 21             | 35           | 29      | 16   |
| % calcareous                  | 33              | 46               | 44             | 32           | 91      | 98   |
| % > 1 mm                      | 2.2             | 0.1              | 0.0            | 0.0          | 0.7     | 0.5  |
| % calcareous                   |              |                  |               |             | 0.3     | 0.1  |
Table 4
Densities of living and dead benthic foraminifera from sediment-surface samples retrieved in 2004 (replication A).

| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|-------------|-----------------------|-----------------------|
|             | 242 | 241 | 240 | 239 | 238 | 237 | 236 | 242 | 241 | 240 | 239 | 238 | 237 | 236 |
| Adercotryma glomerata | 0.6 | 5.7 | 5.5 | 6.2 |
| Ammodiscus sp. | 0.1 | 1.4 | 0.5 | 2.3 |
| Ammotium cassis | 12.6 | 0.6 | 1.1 |
| Angulogerina fluens | 2.3 | 3.4 | 9.8 |
| Astracolus hyalacrulus | 1.2 |
| Astrononion gallowayi | 0.0 | 1.2 | 0.1 | 0.6 | 12.3 |
| Aubignina sp. | |
| Buccella frigida | 2.7 | 1.4 | 1.8 | 0.0 | 0.3 | 0.9 | 9.8 |
| Buccella tenerrima | 0.1 |
| Cassidulina reniforme | 3.7 | 3.9 | 28.0 | 10.0 | 9.1 | 9.1 | 2.2 | 3.4 | 6.0 | 16.9 | 4.0 | 4.8 | 18.3 | 18.5 |
| Cibicides lobatulus | |
| Cornuspira sp. | 0.1 | 0.1 | 0.3 |
| Dentalina baggi | 0.1 |
| Dentalina pauperata | 0.1 | 0.5 | 0.8 |
| Dentalina spp. | 0.1 |
| Elphididae sp. | |
| Elphidium bartletti | 0.1 | 0.4 | 0.6 | 9.1 | 0.6 | 0.0 |
| Elphidium excavatum f. clavata | 1.6 | 8.7 | 8.1 | 8.6 | 1.6 | 43.4 | 8.9 | 0.6 | 2.5 | 19.0 | 2.0 | 19.4 | 43.1 |
| Elphidium incertum | 1.6 | 3.3 | 1.4 |
| Elphidium subarcticum | 1.2 |
| Eponides sp. | |
| Glandulina laevigata | 0.3 |
| Globobulimina spp. | |
| Haynesina orbiculare | 1.3 | 0.9 | 1.1 | 2.3 | 0.9 | 0.9 | 0.5 | 1.1 | 2.5 |
| Hyperammina subnodosa | |
| Islandiella norcrossi f. helena | 0.7 | 4.3 | 9.1 | 4.8 | 19.4 | 4.6 | 0.7 | 2.5 |
| Islandiella norcrossi f. norcrossi | 0.6 | 1.1 | 1.1 | 69.9 | 0.9 | 0.0 | 0.1 | 0.1 | 0.3 | 3.4 | 4.9 |
| Islandiella norcrossi s.l. | 2.0 | 5.7 | 0.6 | 0.3 | 1.1 |
| Labrospira crassimargo | 0.1 | 11.1 | 5.9 | 91.4 | 11.7 | 0.1 | 6.0 | 4.8 | 16.0 | 32.3 |
| Labrospira jeffreisi | 0.3 |
| Lagena spp. | 0.0 |
| Miliolidae sp. | 1.2 | 0.0 | 0.9 |
| Miliolinella sp. 1 | 0.2 | 0.6 | 0.2 |
| Miliolinella sp. 2 | 0.1 | 0.4 | 1.1 | 0.3 |
| Nonionella turgida digitata | |
| Nonionilina labradorica | 0.2 | 0.3 | 11.4 | 99.2 | 3.4 | 39.1 | 0.5 | 0.2 | 0.4 | 1.4 | 4.3 | 12.6 | 86.2 |
| Polymorphinidae spp. | 0.3 | 0.3 | 0.5 | 1.1 | 0.9 | 0.1 | 2.5 |
| Species                          | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|---------------------------------|-----------------|-----------------|----------------|--------------|---------|
| Pyrgo williamsoni               | 0.0             | 0.1             | 0.1            | 0.0          | 0.0     |
| Quinqueloculina arctica         | 0.1             | 0.1             | 0.1            | 0.0          | 0.0     |
| Quinqueloculina seminula        | 1.4             | 1.1             | 0.9            | 0.0          | 0.0     |
| Quinqueloculina sp.             | 2.1             | 1.1             | 0.6            | 0.0          | 0.0     |
| Quinqueloculina stalkeri        | 0.3             | 0.1             | 0.1            | 0.0          | 0.0     |
| Recurvoides turbinatus          | 18.0            | 2.1             | 36.0           | 0.3          | 0.0     |
| Quinqueloculina arctica s.l.    | 5.7             | 1.8             | 11.1           | 0.3          | 0.0     |
| Robertina arctica               | 17.1            | 6.2             | 2.6            | 0.6          | 0.0     |
| Saccammina sp. (‘silver Saccammina’) | 0.1         | 0.1             | 0.1            | 0.0          | 0.0     |
| Saccamminidae spp.              | 0.2             | 0.7             | 0.3            | 0.5          | 0.0     |
| Silicosigmoilina groenlandica   | 0.2             | 0.7             | 0.3            | 0.5          | 0.0     |
| Siphonaperta agglutinata        | 0.2             | 0.7             | 0.3            | 0.5          | 0.0     |
| Stainforthia loeblichi          | 0.2             | 0.7             | 0.3            | 0.5          | 0.0     |
| Triloculina trihedra            | 0.1             | 0.1             | 1.1            | 0.1          | 0.0     |
| Trochammina nana                | 1.4             | 2.8             | 3.7            | 0.1          | 0.0     |
| Trochamminella atlantica        | 1.4             | 2.8             | 3.7            | 0.1          | 0.0     |
| calcareous indefinite           | 0.0             | 0.1             | 0.1            | 0.0          | 0.0     |
| benthics/10 cm²                 | 5.861           | 19.33           | 53.14          | 88.57        | 134.4   |
| Benthics counted                | 211             | 261             | 372            | 310          | 252     |
| No. of species                  | 9               | 18              | 20             | 21           | 17      |
| % calcareous                    | 100             | 98              | 98             | 61           | 93      |
| % > 1 mm                        | 0.3             | 2.2             | 0.5            | 0.9          | 0.0     |
Table 5
Densities of living and dead benthic foraminifera from sediment-surface samples retrieved in 2004 (replication B).

| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|-------------|-----------------------|-----------------------|
|             | 242 | 241 | 240 | 239 | 238 | 237 | 236 | 242 | 241 | 240 | 239 | 238 | 237 |
| Adercotryma glomerata | 1.8 | 27.0 | 0.6 | 40.0 | 9.8 | 1.0 | 1.8 |
| Ammodiscus sp. | 0.5 | 0.6 | 4.0 | 0.6 |
| Ammotium cassis | 0.4 | 13.0 |
| Angulogerina fluens | 0.1 | 0.2 |
| Astacolus hylaculatus | 0.3 | 1.0 |
| Astronion gallowayi | 0.0 | 0.0 | 0.7 |
| Buccella frigida | 0.0 | 5.0 | 2.9 | 2.0 |
| Cassidulina obtusa | 0.6 |
| Cassidulina reniforme | 3.6 | 2.7 | 43.3 | 8.4 | 9.1 | 1.2 | 2.0 | 3.4 | 2.9 | 16.3 | 6.5 | 9.7 | 14.2 |
| Cibicides lobatulus | 0.1 | 0.5 | 3.1 |
| Cornuspira folaecea | 0.3 |
| Cornuspira sp. | 0.1 | 0.2 |
| Dentalina spp. | 0.1 | 0.2 |
| Elphidium barletti | 1.0 | 0.5 | 3.1 |
| Elphidium excavatum | 0.3 | 2.5 |
| Elphidium excavatum f. clavata | 2.6 | 4.5 | 10.7 | 6.9 | 2.3 | 25.2 | 24.0 | 0.6 | 2.4 | 2.1 | 0.9 | 2.6 | 30.2 |
| Elphidium incertum | 0.5 | 2.2 |
| Elphidium subarcticum | 1.0 |
| Epistominella vitrea | 0.6 | 5.0 |
| Globobulimina spp. | 0.1 | 0.3 |
| Haynesina orbicularis | 0.8 | 0.1 | 0.3 | 0.1 |
| Hyperammina subnodosa | 1.5 | 9.0 | 0.6 |
| Islandiella islandica | 0.3 |
| Islandiella norcrossi f. helenae | 0.6 | 5.9 | 9.3 | 8.0 | 14.8 | 13.0 |
| Islandiella norcrossi f. norcrossi | 0.1 | 0.5 | 1.8 | 3.0 |
| Labrospira crassimargo | 1.3 | 14.4 | 56.0 | 65.8 | 32.0 |
| Labrospira jeffreisi | 0.6 |
| Lagena spp. | 0.3 | 4.0 | 0.0 |
| Miliolinella sp. 1 | 0.3 | 1.1 | 0.9 | 0.6 |
| Miliolinella sp. 2 | 0.3 | 1.1 |
| Miliolinella subrotunda | 0.0 | 0.3 |
| Nonionella sp. | 0.1 |
| Nonionella turgida digitata | 0.6 |
| Nonionellina labradorica | 0.0 | 0.6 | 1.0 | 17.5 | 50.9 | 7.4 | 69.0 | 0.4 | 0.0 | 0.7 | 1.6 | 2.9 | 6.2 |
| Polymorphimidae spp. | 0.3 | 1.8 | 1.0 | 0.4 |
| Pyrgo williamsoni | 0.0 | 0.2 | 13.6 | 6.0 | 0.2 | 0.3 | 0.7 |
| Quinqueloculina seminula | 1.0 | 0.9 | 0.2 | 0.3 | 5.0 | 0.0 | 0.1 | 0.6 |
| Species                          | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|---------------------------------|-----------------|------------------|----------------|--------------|---------|
| Quinqueloculina sp.             | 0.4             | 210              | 7              | 100          | 377     |
| Quinqueloculina stalkeri        | 0.6             | 259              | 11             | 96           | 57      |
| Recurvvoides turbinatus         | 18.7            | 512              | 17             | 97           | 65      |
| Reophax atlantica               | 1.4             | 535              | 23             | 57           | 32      |
| Reophax scorpionis s.l.         | 0.2             | 469              | 17             | 65           | 32      |
| Robertina arctica               | 0.3             | 373              | 24             | 57           | 32      |
| Silicosigmoilina groenlandica   | 0.6             | 443              | 10             | 32           | 43      |
| Siphonaperta agglutinata        | 2.0             | 152              | 15             | 43           | 43      |
| Spiroplectammina biformis       | 0.1             | 148              | 10             | 32           | 43      |
| Stainforthia loeblichi          | 2.0             | 155              | 12             | 43           | 43      |
| Textularia earlandi             | 0.6             | 114              | 14             | 23           | 32      |
| Textularia torquata             | 6.0             | 81               | 14             | 23           | 32      |
| Triloculina trihedra            | 1.2             | 260              | 14             | 23           | 32      |
| Trochamminella atlantica        | 0.2             | 231              | 14             | 23           | 32      |
| calcareous indefinite           | 0.3             | 23.1             | 14             | 23           | 32      |

% calcareous:
- 100%
- 96%
- 97%
- 65%
- 57%
- 32%
- 43%
- 100%
- 98%
- 99%
- 65%
- 85%
- 45%

% > 1 mm:
- 377%
- 57%
- 32%
- 43%
- 100%
- 98%
- 99%
- 65%
- 85%
- 45%
| Station no. | **Live foraminifera (N)** | **Dead foraminifera (N)** |
|------------|---------------------------|---------------------------|
|            | 013 012 011 010 009 008 007 006 | 013 012 011 010 009 008 007 006 |
| **Adercotryma glomerata** | 0.4 21.3 | 0.1 0.4 10.7 |
| **Ammodiscus sp.** | 0.1 0.4 | |
| **Ammotium cassis** | 0.8 1.3 | 1.7 2.7 |
| **Angulogerina fluens** | 5.3 | 0.4 1.3 |
| **Astacolus hyalacrulus** | 0.3 | |
| **Astronon gallowayi** | 0.6 0.5 0.4 5.3 | 0.2 0.1 0.5 0.4 9.3 |
| **Buccella frigida** | 0.2 0.9 0.5 0.4 | 0.2 0.6 0.4 4.0 |
| **Cassidulina reniforme** | 1.8 0.4 16.1 20.5 11.9 5.8 2.7 | 0.1 0.2 3.5 8.1 4.7 2.4 1.7 12.0 |
| **Cibicides lobatulus** | 2.7 | 5.3 |
| **Cornuspira foliacea** | 0.4 | |
| **Cornuspira sp.** | 2.7 | |
| **Dentalina spp.** | 0.1 0.1 0.5 | 0.8 4.0 |
| **Elphidium bartletti** | 21.2 13.4 13.4 7.1 3.4 4.3 11.7 30.7 | 1.6 2.1 11.3 2.1 4.1 1.0 12.5 74.7 |
| **Elphidium excavatum f. clavata** | 21.2 13.4 13.4 7.1 3.4 4.3 11.7 30.7 | 1.6 2.1 11.3 2.1 4.1 1.0 12.5 74.7 |
| **Elphidium incertum** | 0.1 2.1 0.6 0.5 0.4 | 0.1 0.5 0.3 13 |
| **Elphidium subarcticum** | 2.7 | |
| **Eponides sp.** | | 1.3 |
| **Fissurina spp.** | | 1.3 |
| **Globobulimina spp.** | 0.1 1.0 1.7 | 0.3 1.0 |
| **Haynesia orbiculare** | 0.2 | 1.3 |
| **Hippocrepina indivisa** | | 1.3 |
| **Hippocrepinella sp.** | 3.4 0.3 | 4.0 4.0 |
| **Hyperammina subnodosa** | | 1.5 72 |
| **Islandiella norcrossi f. helenae** | 0.1 2.4 20.5 21.4 23.3 5.3 | 0.1 0.1 0.3 2.1 2.4 1.7 10.7 |
| **Islandiella norcrossi f. norcrossi** | 1.1 | 5.0 2.7 | |
| **Islandiella norcrossi s.l.** | 1.4 0.5 0.8 | 1.3 |
| **Labrospira crassimargo** | 0.2 55.1 33.8 171.7 16.0 | 0.1 3.8 8.6 9.6 31.0 |
| **Labrospira jeffreisi** | | 2.7 |
| **Lagenia spp.** | 0.2 0.2 | |
| **Miliolinella sp. 1** | 0.3 0.3 0.4 0.5 | 1.3 |
| **Miliolinella sp. 2** | 7.1 | 0.2 |
| **Nonionellina labradorica** | | |
| **Polyphormidae spp.** | 0.1 0.2 | 0.2 0.2 1.3 1.3 |
| **Pyrgo williamsoni** | 3.5 0.9 8.2 1.0 | 5.8 12.0 |
| **Quinqueloculina seminula** | 1.5 0.2 0.1 2.9 1.3 | 4.0 0.2 |
| **Quinqueloculina sp.** | | 0.2 |
| **Quinqueloculina stalkeri** | 0.1 0.4 7.9 4.3 | 1.3 4.0 |
| | 0.1 0.8 0.5 4.1 | 1.4 |
| Species                        | Benthics/10 cm$^3$ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|-------------------------------|-------------------|-----------------|----------------|-------------|---------|
| Recurvoides turbinatus        | 7.9               | 2.4             | 86.7           | 81.3        | 0.7     |
| Reophax atlantica             | 3.8               | 1.3             | 0.3            | 2.7         |         |
| Reophax cf. fusiformis        | 2.6               | 13.3            | 0.1            | 37.3        |         |
| Reophax scorpiurus s.l.       | 1.0               | 1.7             | 18.7           | 16.7        | 0.2     |
| Rhabdammina abyssorum         | 0.2               |                 | 0.2            | 0.3         |         |
| Robertina arctica             | 0.5               | 4.6             | 6.7            | 0.2         |         |
| Silicosigmolina groenlandica  | 0.1               | 0.1             | 0.1            | 2.5         | 0.2     |
| Siphonaperta agglutinata      | 0.2               | 1.3             | 5.3            | 4.0         |         |
| Stainforthia loeblich         | 0.1               | 0.1             | 0.5            | 2.7         | 0.7     |
| Textularia earlandi           | 0.1               | 0.3             | 2.5            | 1.2         |         |
| Triloculina trihedra          | 0.1               |                 | 0.1            | 5.3         |         |
| Trochammina nana              | 0.1               |                 | 0.1            | 5.3         |         |
| Trochamminella atlantica      | 2.7               |                 |                |             |         |

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### Table 7
Densities of living and dead benthic foraminifera from sediment-surface samples retrieved in 2006 (replication A).

| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|-------------|-----------------------|-----------------------|
|             | 191 178 180 182 184 190 186 188 | 191 178 180 182 184 190 186 188 |
| Adercotryma glomerata | 18.5 | 11.1 |
| Ammodiscus sp. | 1.2 | 3.1 |
| Ammotium sp. | 1.2 | 1.5 |
| Angulogerina fluens | 9.2 | 9.8 |
| Armorella sp. | | 3.1 |
| Astacolus hyalacculus | | 0.9 |
| Astrononion gallowayi | 2.5 4.6 0.9 1.8 | 19.1 |
| Bolivina pseudopunctata | | |
| Buccella frigida | 1.5 1.6 5.6 | 1.2 6.1 1.9 0.4 |
| Buccella tenerrima | 1.2 | 14.2 |
| Bulimina marginata | | 0.6 |
| Cassidulina reniforme | 9.8 54.9 222.4 66.8 41.8 1.9 0.5 | 57.8 15.2 72.0 51.8 51.1 0.1 |
| Cibicides lobatulus | 3.1 1.6 | 11.7 |
| Cornuspira sp. | 0.6 1.5 1.6 | 0.4 0.1 |
| Cunea arctica | | |
| Dentalina spp. | 0.6 | 1.2 |
| Elphidium bartletti | 4.3 3.2 | 10.5 |
| Elphidium excavatum f. clavata | 42.5 131.0 49.6 12.2 93.8 54.7 34.3 9.2 | 143.4 30.5 14.4 14.1 32.0 4.3 0.9 0.2 |
| Elphidium frigidum | | 1.2 |
| Elphidium incertum | 0.6 1.5 1.6 | 3.1 0.2 |
| Epistominella vitrea | 3.7 | 0.6 0.4 |
| Fissurina spp | 0.6 | 4.9 |
| Globobulimina turbida | | |
| Hippocrepina indivisa | 9.8 1.6 | 1.2 1.6 2.8 |
| Hyperammina subnodosa | 7.5 2.6 | 3.1 |
| Islandiella islandica | 4.4 | 4.4 |
| Islandiella norcross f. helenae | 13.5 32.0 41.6 33.9 1.8 | 25.2 6.1 5.6 0.4 |
| Islandiella norcross f. norcrossi | 0.6 1.5 | 1.8 |
| Islandiella norcross s.l. | 1.2 | |
| Labrospira crassimargo | 52.1 236.9 89.7 23.5 | 42.6 24.4 8.0 2.8 |
| Lagena spp | 0.6 | 1.2 |
| Miolinella sp. 1 | 0.6 4.6 1.6 | 0.1 0.2 |
| Miolinella sp. 2 | | 0.1 |
| Nonionella labradorica | 31.4 53.3 145.6 99.8 9.8 | 97.8 7.6 8.0 4.7 0.4 |
| Oolina sp. | 0.6 | |
| Polymorphinidae spp. | 1.2 1.5 1.6 | 0.1 |
| Pygo williamsoni | 9.8 30.5 6.4 7.5 4.4 0.1 | 1.2 1.9 |
| Species                  | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|-------------------------|-----------------|------------------|----------------|--------------|---------|
| *Quinqueloculina seminula* | 1.2 1.5 4.8 0.2 | 440.5 689.0 616.2 375.5 210.2 57.6 35.0 9.3 707.3 106.7 113.6 110.1 91.1 4.4 1.2 0.2 |
| *Quinqueloculina sp.* | 15.4 1.5 11.2 77.2 24.9 0.1 1.2 1.5 4.8 12.2 3.6 | 805 484 387 399 473 605 403 167 1201 70 71 117 205 46 14 4 | 40 27 23 21 19 11 3 3 46 11 9 16 11 2 1 1 |
| *Quinqueloculina stalkeri* | 19.1 0.9 20.9 | 16.0 9.1 8.0 13.2 14.2 | 1.8 | 77.5 1.5 0.9 0.4 |
| *Recurvoides turbinatus* | 3.0 | 46.0 70.1 6.4 3.8 | 9.8 | 14.2 3.0 |
| *Reophax atlantica* | 46.2 30.5 1.6 0.9 | 15.4 1.5 11.2 77.2 24.9 0.1 1.2 1.5 4.8 12.2 3.6 |
| *Reophax scorpiurus s.l.* | 19.1 0.9 20.9 | 9.8 1.5 | 0.6 |
| *Robertina arctica* | 19.1 0.9 20.9 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Rosalina sp.* | 19.1 0.9 20.9 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Silicosigmoilina groenlandica* | 9.8 1.5 | 19.1 0.9 20.9 | 1.8 | 46.2 30.5 1.6 0.9 |
| *Siphonaperta agglutinata* | 17.2 3.0 19 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Spiroplectammina biformis* | 1.8 0.4 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Stainforthia loeblichii* | 5.5 3.0 19 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Textularia earlandi* | 3.1 4.6 9.6 2.8 5.3 0.1 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Textularia torquata* | 4.3 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Triloculina trihedra* | 0.6 2.8 0.4 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Trochammina bullata* | 0.6 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Trochammina nana* | 0.6 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| *Trochamminella atlantica* | 7.4 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |
| agglutinated indefinite | 2.5 | 16.0 9.1 8.0 13.2 14.2 | 1.5 0.6 |

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| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|------------|------------------------|-----------------------|
|            | 191 178 180 182 184 190 188 | 191 178 180 182 184 190 188 |
| Adercotryma glomerata | 3.1 | 15 | 14 | 0.3 | 12.9 | 0.3 |
| Ammodiscus sp. | 1.5 | 1.4 | 0.3 | 4.3 | 4.4 |
| Ammotium sp. | 3.1 | | | |
| Angulogerina fluens | 4.3 | | | |
| Astacolus hyalacrulus | | 1.4 | | |
| Astronion gallowayi | 4.3 | 0.7 | | |
| Buccella frigida | 2.9 | 19.5 | 1.0 | 4.3 | 2.9 |
| Buccella tenerrima | 10.5 | | | |
| Cassidulina reniforme | 3.7 | 61.1 | 136.3 | 61.2 | 92.0 | 3.4 | 0.6 | 27.1 | 29.1 | 26.4 | 48.7 | 42.0 | 0.1 |
| Cassidulina terets | | | | |
| Cibicides lobatulus | 4.3 | 1.4 | | 15.4 | |
| Cornuspira sp. | 0.6 | 0.7 | | | |
| Dentalina spp. | | 1.4 | | | |
| Egerella advena | | 0.6 | | | |
| Elphidium bartletti | 5.5 | 1.5 | 0.7 | 10.5 | 1.5 | 2.8 | |
| Elphidium excavatum f. clavata | 18.5 | 62.5 | 8.3 | 11.1 | 95.7 | 51.6 | 28.8 | 80.0 | 24.7 | 9.7 | 11.1 | 19.7 | 12.2 | 1.3 |
| Elphidium frigidum | 1.4 | 1.7 | | 1.2 | 1.4 | | 1.8 | | | |
| Elphidium incertum | | | | 1.2 | 1.4 | | 1.4 | | | |
| Elphidium subarcticum | | | | | | | | | | |
| Epistominella vitrea | 0.6 | 0.7 | | 1.2 | 1.4 | 1.2 | 1.4 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Globobulimina turgida | 0.6 | 2.9 | 2.8 | 2.5 | 2.9 | 1.4 | 1.4 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Hippocrepina indivisa | 1.2 | 1.4 | 4.3 | 1.5 | | | | | | | | | |
| Hyperammina subnodosa | 2.0 | 4.7 | 0.1 | 2.3 | 0.4 | | | | | | | | |
| Islandiella islandica | | | | | | | | | | | | | | |
| Islandiella norcrossi f. helenae | 3.7 | 32.0 | 15.3 | 51.5 | 1.3 | 19.7 | 1.5 | 1.4 | 8.3 | 1.7 | | | | |
| Islandiella norcrossi f. norcrossi | 1.2 | 1.5 | 1.4 | 3.1 | | | | | | | | | |
| Labrospira crassimargo | 19.9 | 323.4 | 108.7 | 105.8 | 1.7 | 32.8 | 38.5 | 4.2 | 2.8 | | | | |
| Lagena spp. | | | | | | | | | | | | | | |
| Milionella sp. 1 | 8.7 | 2.8 | | 13.9 | 6.3 | 73.2 | 8.7 | 5.6 | 2.8 | 0.0 | | | |
| Milionella sp. 2 | | | | | | | | | | | | | | |
| Nonionellina labradorica | 15.4 | 50.9 | 107.1 | 61.2 | 7.3 | 73.2 | 8.7 | 5.6 | 2.8 | 0.0 | | | | |
| Polymorphinidae spp. | | 2.9 | 0.3 | 3.1 | 1.4 | 0.3 | | | | | | | | |
| Pyrgo williamsoni | 4.3 | 21.8 | 1.4 | 33.4 | 1.0 | 0.6 | 2.9 | | | | | | | |
| Quinqueloculina seminula | | | | | | | | | | | | | | |
| Quinqueloculina sp. | | | | | | | | | | | | | | |
| Quinqueloculina stalkeri | 2.5 | 4.4 | 9.7 | 97.4 | 24.7 | 0.2 | 0.1 | 1.2 | 2.9 | 4.2 | 7.0 | 7.7 | 0.1 |
| Recurvoides turbinatus | 23.4 | 119.3 | 4.2 | 7.0 | 0.3 | 47.4 | 17.5 | | | | | | | |
| Species                        | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|-------------------------------|-----------------|------------------|----------------|--------------|---------|
| Reophax atlantica             | 8.0             | 23.4             | 11.1           | 11.1         | 11.1    |
| Reophax scorpiurus s.l.       | 23.4            | 40.7             | 14.5           | 14.5         | 14.5    |
| Reophax sp.                   | 0.6             | 6.8              | 5.6            | 5.6          | 5.6     |
| Robertina arctica             | 11.1            | 18.5             | 14.5           | 14.5         | 14.5    |
| Rosalina sp.                  | 6.8             | 2.8              | 2.8            | 2.8          | 2.8     |
| Silicosignoilina groenlandica | 8.6             | 18.5             | 18.5           | 18.5         | 18.5    |
| Siphonaperta agglutinata      | 18.5            | 1.5              | 1.5            | 1.5          | 1.5     |
| Spiroplectammina biforis      | 2.5             | 1.2              | 1.2            | 1.2          | 1.2     |
| Stainforthia loeblichii       | 1.5             | 2.8              | 2.8            | 2.8          | 2.8     |
| Sygmoilina sp.                | 2.8             | 2.8              | 2.8            | 2.8          | 2.8     |
| Textularia earlandi           | 2.8             | 2.8              | 2.8            | 2.8          | 2.8     |
| Triloculina trihedra          | 2.8             | 2.8              | 2.8            | 2.8          | 2.8     |
| Trochammina nana              | 1.5             | 1.5              | 1.5            | 1.5          | 1.5     |
| Trochamminella atlantica      | 2.5             | 2.5              | 2.5            | 2.5          | 2.5     |
| agglutinated indefinite       | 0.6             | 3.1              | 3.1            | 3.1          | 3.1     |
| calcareous indefinite         | 185.6           | 780.5            | 407.8          | 407.8        | 407.8   |
| Benthics counted              | 327             | 590              | 295            | 295          | 295     |
| No. of species                | 29              | 25               | 15             | 15           | 15      |
| % calcareous                  | 49              | 36               | 71             | 71           | 71      |
| % > 1 mm                      | 1.20            | 0.66             | 0.04           | 0.04         | 0.04    |
Table 9
Densities of living and dead benthic foraminifera from sediment-surface samples retrieved in 2007 (replication A).

| Station no. | Live foraminifera (N) | Dead foraminifera (N) |
|-------------|-----------------------|-----------------------|
|             | 8A+C  | 7A+C | 6A  | 5A  | 4A  | 3A  | 2A  | 1A  | 8A+C | 7A+C | 6A  | 5A  | 4A  | 3A  | 2A  | 1A  |
| Adencotryma glomerata |        |       |     |     |     |     |     |     | 18.0 |       |     |     |     |     |     |     |     | 16.0 |
| Ammotium cassis | 4.0   |       |     |     |     |     |     |     | 24.0 |       |     |     |     |     |     |     |     | 4.0 |
| Angulogerina fluens | 18.0 |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     | 4.0 |
| Armorella sp. | 2.0   |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     | 4.0 |
| Astacolus hyalacrulus | 2.0   |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     | 24.0 |
| Astrononion gallowayi | 2.0   |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     | 4.0 |
| Buccella frigida |        |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     | 2.0 |
| Buccella tenerrima | 2.0   |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     | 2.0 |
| Cassidulina reniforme | 1.4   | 19.0  | 144.0 | 11.0 | 140.0 | 32.0 | 4.0 | 0.3 | 0.4 | 4.5 | 162.0 | 57.5 | 66.0 | 48.0 | 34.0 |
| Cibicides lobatulus | 2.0   |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     | 14.0 |
| Cornuspira foliacea |        |       |     |     |     |     |     |     | 0.4 |       |     |     |     |     |     |     |     |     |
| Cornuspira sp. | 0.1   |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     |     |
| Cuneata arctica |        |       |     |     |     |     |     |     | 0.5 |       |     |     |     |     |     |     |     | 0.5 |
| Dentalina spp. | 0.5   |       |     | 0.5 |     | 12.0 |     |     | 0.3 |       |     |     |     |     |     |     |     | 2.0 |
| Elphidium bartletti | 5.9   | 8.3   | 73.0  | 284.0 | 18.5 | 168.0 | 44.0 | 8.0 | 1.5 | 14.9 | 50.5 | 142.0 | 16.5 | 32.0 | 80.0 | 96.0 |
| Elphidium excavatum f. clavata | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |        |     |     |     |     |     |     | 4.0 |
| Elphidium frigidum |        |       |     |     |     |     |     |     | 0.5 |       |     |     |     |     |     |     |     | 2.0 |
| Elphidium incertum |        |       |     |     |     |     |     |     | 0.5 |       |     |     |     |     |     |     |     | 2.0 |
| Elphidium subarcticum |        |       |     |     |     |     |     |     | 0.5 |       |     |     |     |     |     |     |     | 2.0 |
| Epistominella vitrea | 0.5   | 1.0   |     |     |     |     |     |     | 8.0 |       |     |     |     |     |     |     |     | 4.0 |
| Fissurina spp. | 3.0   |       | 2.0 |     |     |     |     |     | 1.0 |       |     |     |     |     |     |     |     | 2.0 |
| Globobulimina spp. |        |       |     |     |     |     |     |     | 34.0 |       |     |     |     |     |     |     |     |     |
| Hippocrepina indivisa | 4.8   |       | 20.0 |     |     |     |     |     | 0.8 |       |     |     |     |     |     |     |     | 1.5 |
| Hyperammina subnodosa |        |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     |     |
| Islandiella islandica | 6.5   | 56.0  | 18.0 | 12.0 |     |     |     |     | 5.5 | 2.0   | 10.0 | 32.0 |     |     |     |     |     |
| Islandiella norcrossi f. helenae | 8.5 | 422.5 | 186.5 | 156.5 |     |     |     |     | 3.5 | 14.1  | 54.1 | 56.3 |     |     |     |     |     |
| Lutrospira crassimargo |        |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     | 4.0 |
| Mililidae spp. | 0.4   |       |     |     |     |     |     |     | 0.4 |       |     |     |     |     |     |     |     | 0.4 |
| Mililinella sp. 1 |        |       |     |     |     |     |     |     | 4.0 |       |     |     |     |     |     |     |     | 0.4 |
| Mililinella sp. 2 | 4.9   | 9.0   | 14.0 | 3.0 | 4.0 |     |     |     | 0.1 |       |     |     |     |     |     |     |     | 0.1 |
| Nonionella turgida digitata |        |       |     |     |     |     |     |     | 2.0 |       |     |     |     |     |     |     |     | 2.0 |
| Nonionellina labradorica | 30.0 | 87.5  | 94.0 | 120.0 | 76.0 | 0.1 | 0.3 | 4.0 | 4.0 | 6.0 | 40.0 | 94.0 |     |     |     |     |
| Oolina sp. |        |       |     |     |     |     |     |     | 4.9 |       |     |     |     |     |     |     |     | 4.0 |
| Polymorphinidae spp. | 0.1   | 3.0   | 2.0 | 6.0 | 2.0 | 2.0 | 0.1 |     | 18.0 |       |     |     |     |     |     |     |     | 6.0 |
| Proteonina atlantica |        |       |     |     |     |     |     |     | 12.0 |       |     |     |     |     |     |     |     | 2.0 |
| Pyrgo williamsoni | 12.0  | 42.5  | 6.0 | 4.0 | 8.0 |     |     |     | 2.0 |       |     |     |     |     |     |     |     |     |
| Species                          | 1.0 | 6.0 | 2.0 | 1.0 |
|---------------------------------|-----|-----|-----|-----|
| *Quinqueloculina seminula*      |     |     |     |     |
| *Quinqueloculina sp.*           | 4.0 | 1.5 | 32.0| 10.0|
| *Quinqueloculina stalkeri*      | 2.1 | 15.4| 31.0| 22.0|
| *Recurvoides turbinatus*        | 1.0 | 46.0| 62.0| 110.0|
| *Reophax atlantica*             | 4.0 |     | 20.0|     |
| *Reophax denticuliformis*       |     |     |     | 2.0 |
| *Reophax scoriipurus s.l.*      | 2.0 | 0.5 | 2.1 | 2.0 |
| *Reophax sp.*                   | 14.0| 8.0 | 86.0| 78.0|
| *Robertina arctica*             | 10.0| 7.5 | 26.0| 28.0|
| *Rosalina sp.*                  | 2.0 | 2.0 | 10.0|     |
| *Silicosigmoilina groenlandica* |     | 2.0 | 6.0 |     |
| *Siphonaperta argulinatedata*   | 4.0 |     | 4.0 |     |
| *Spiroplectammina biformis*     |     |     |     | 2.0 |
| *Stainforthia loeblichi*        |     | 4.0 | 4.0 | 2.0 |
| *Triloculina trihedra*          | 6.0 | 1.0 | 6.0 |     |
| *Trochammina nana*              |     |     | 10.0|     |
| *Trochamminella atlantica*      |     | 2.0 | 4.0 |     |
| agglutinated indefinite         |     |     |     | 2.0 |

| Benthics/10 cm³                  | 8.0 | 30.5| 137.5| 550.0| 209.5| 1117.0| 641.3| 752.8| 2.1 | 18.0 | 58.5 | 362.0| 133.0| 172.1| 316.9| 697.8 |
| Benthics counted                 | 64 | 244 | 275 | 275 | 419 | 566 | 360 | 532 | 17 | 144 | 117 | 181 | 266 | 87 | 165 | 362 |
| No. of species                   | 2 | 7 | 9 | 14 | 21 | 21 | 26 | 34 | 5 | 6 | 3 | 9 | 18 | 12 | 17 | 36 |
| % calcareous                     | 100 | 100 | 100 | 95 | 91 | 50 | 47 | 28 | 100 | 100 | 100 | 95 | 94 | 69 | 62 | 54 |
| % > 1 mm                         | 0.1 | 0.8 | 2.8 |     |     |     |     |     | 0.1 | 0.3 | 0.3 |     |     |     |     |     |     |
Table 10  
Densities of living and dead benthic foraminifera from sediment-surface samples retrieved in 2007 (replication B).

| Live foraminifera (N) | Live foraminifera (N) | Dead foraminifera (N) |
|-----------------------|-----------------------|-----------------------|
| Station no.           | 8B + D 7B + D 6B 5B 4B 3B 2B 1B | 8B + D 7B + D 6B 5B 4B 3B 2B 1B |
| Adercotryma glomerata  | 13.0 6.0               |                        |
| Ammodiscus sp.        | 2.0 2.0                |                        |
| Ammotium cassis       | 21.0                   | 6.0                    |
| Angulogerina fluens   | 6.0                    |                        |
| Astacolus hyalacrulus | 1.0 1.0 1.0 4.0        |                        |
| Astronomion gallowayi |                        | 0.5 1.0 1.0 4.0        |
| Buccella frigida      | 3.5 2.0 6.0            | 3.0 2.0 5.0 2.0        |
| Buccella tenerrima    |                        | 1.0 1.0                |
| Cassidulina reniforme | 1.9 8.5 35.0 19.5 56.0 53.0 2.0 0.3 1.1 3.8 47.0 49.5 56.0 137.0 14.0 |
| Cibicides lobatulus   | 2.0 5.0                | 3.0 10.6 102.5 40.0 15.5 20.0 242.0 44.0 |
| Cornuspira folacea    | 0.1 0.3                | 0.3 2.5 16.5 12.0 4.0 0.3 1.0 |
| Cornuspira sp.        | 6.0 1.0                | 2.0 5.0                |
| Cuneata arctica       |                        | 1.0                    |
| Dentalina spp.        | 0.3 2.0                | 0.1 0.5 6.0            |
| Elphidium bartletti   | 1.0 10.0               | 1.0 1.0                |
| Elphidium excavatum f. clavata | 12.3 4.9 76.8 99.0 15.5 56.0 57.0 2.4 10.6 102.5 40.0 15.5 20.0 242.0 44.0 |
| Elphidium incertum    | 3.0 1.0                | 1.0                    |
| Elphidium subarcticum |                        | 1.0                    |
| Epistominella vitrea  | 0.5 4.0                |                        |
| Fissurina spp.        |                        | 1.0                    |
| Globobulimina spp.    | 2.5 4.0 6.0 1.0        | 0.8 1.0 1.0 4.0        |
| Haynesina orbiculare  |                        | 9.0 24.9               |
| Hippocrepina indivisa |                        | 3.6 24.9               |
| Hyperammina subnodosa |                        |                        |
| Islandiella islandica |                        | 0.3 1.5                |
| Islandiella norcrossi f. helena | 1.5 10.5 40.0 21.0 18.0 1.0 1.0 11.0 21.0 |
| Islandiella norcrossi f. norcrossi |           | 4.0 12.0 11.0 21.0 |
| Labrosira crassimargo |                       | 20.1 198.0 71.5 65.1 0.5 2.5 8.0 24.9 14.4 |
| Lagena spp.           |                        | 0.5                    |
| Mililioidae spp.      |                        |                        |
| Miliolinella sp. 1    | 0.1 0.5 6.0            | 0.1                    |
| Miliolinella sp. 2    | 0.3 0.5 4.8 1.0 5.5 1.0 |                        |
| Nonionellina labradorica | 27.0 64.0 130.0 106.0 16.0 0.1 0.1 2.5 4.5 12.0 14.0 29.0 |
| Polymorphinidae spp. |                        |                        |
| Proteonina atlantica  |                        | 1.0                    |
| Pyrgo williamsoni     | 0.3 2.5 16.5 12.0 4.0 0.3 1.0 |
| Quinqueloculina seminula | 2.0 3.5 6.0 2.0 5.0 0.3 |

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| Species                          | Benthics/10 cm³ | Benthics counted | No. of species | % calcareous | % > 1 mm |
|---------------------------------|-----------------|-----------------|----------------|--------------|---------|
| Quinqueloculina sp.             |                 |                 |                |              |         |
| Quinqueloculina stalkeri        | 3.8             | 130             | 3              | 100          | 0.1     |
| Recurvvoides turbinatus         | 2.5             | 173             | 5              | 100          | 0.1     |
| Reophax atlantica               | 4.0             | 430             | 10             | 100          | 0.0     |
| Reophax scoriurus s.l.          | 4.0             | 589             | 25             | 91           | 0.9     |
| Reophax sp.                     | 18.5            | 105             | 45             | 86           | 6.0     |
| Robertina arctica               | 6.5             | 714.3           | 131            | 91           | 6.0     |
| Rosalina sp.                    | 3.0             | 454.1           | 3.1            | 47           | 0.3     |
| Silicosigmoilina groenlandica   | 2.0             | 414.0           | 6.0            | 30           | 0.1     |
| Siphonaperta agglutinata        | 0.5             | 207.5           | 0.3            | 100          | 0.1     |
| Spiroplectammina biformis       | 2.0             | 407.1           | 2.0            | 100          | 0.0     |
| Stainforthia loeblichi          | 0.5             | 182.1           | 0.3            | 100          | 0.1     |
| Textularia earlandi             | 0.5             | 714.3           | 2.0            | 100          | 0.0     |
| Triloculina trihedra            | 4.0             | 414.0           | 6.0            | 100          | 0.0     |
| Trochanminella atlantica        | 0.5             | 207.5           | 0.3            | 100          | 0.1     |
| agglutinated indefinite        |                 |                 |                |              |         |
| calcareous indefinite           |                 |                 |                |              |         |
| Benthics/10 cm³                 | 16.3            | 107.5           | 207.5          | 100          | 0.3     |
| Benthics counted                | 21.6            | 407.1           | 407.1          | 100          | 0.1     |
| No. of species                  | 107.5           | 407.1           | 407.1          | 100          | 0.1     |
| % calcareous                    | 207.5           | 407.1           | 407.1          | 100          | 0.1     |
| % > 1 mm                        | 107.5           | 407.1           | 407.1          | 100          | 0.1     |
| Station no. | Sediment depth interval [cm] | 238  | 236  |
|------------|-----------------------------|------|------|
|            | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
| 238        |      |     |     |     |     |     |     |     |     |      |
|            | 236 | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
| Adercotryma glomerata | 5.5 | 7.9 | 0.8 | 1.8 | 0.6 | 8.7 | 2.4 | 2.5 | 1.3 | 0.7 | 2.4 |
| Angulogerina fluens | 2.4 | 5.8 | 5.0 | 6.4 | 1.3 | 2.7 | 3.0 | 3.7 | 2.7 | 2.9 |
| Astrononion gallowayi | 4.7 | 2.5 | 13.0 | 2.9 | 1.3 |
| Buccella frigida | 0.3 | 0.3 | 8.7 | 2.4 | 2.5 | 1.3 |
| Cassidulina reniforme | 0.2 | 0.4 | 8.7 | 2.4 | 2.5 | 1.3 |
| Cibicides lobatulus | 2.4 | 2.5 | 1.3 | 3.0 | 2.7 |
| Dentalina spp. | 2.3 | 0.2 | 0.3 | 1.3 | 3.0 |
| Elphidium bartletti | 1.3 | 0.7 | 2.4 | 1.3 | 3.0 |
| Elphidium excavatum f. clavata | 7.5 | 2.9 | 1.3 |
| Fissurina spp. | 4.7 | 7.1 | 3.9 | 2.7 |
| Islandiella helenae | 3.8 | 3.0 | 4.7 |
| Islandiella norcrossi | 0.2 | 0.2 | 3.0 |
| Lobospira crassimargo | 6.3 | 8.6 | 13.6 |
| Miliolidaeasp. | 0.3 | 0.2 | 1.3 |
| Nonionellina labradorica | 0.3 | 15.0 | 15.6 |
| Polymorphinidae | 0.2 | 0.2 | 2.9 |
| Pygao williamsoni | 0.3 | 0.2 | 3.2 |
| Quinqueloculina stalkeri | 3.0 | 1.0 | 2.4 |
| Recurvirostrum turbinatus | 2.7 | 1.0 | 3.7 |
| Reophax sp. | 2.5 | 2.9 | 2.9 |
| Robertina arctica | 2.9 | 2.9 | 2.9 |
| Rosalina sp. | 0.3 | 0.3 | 3.7 |
| Silicosigmoilina groenlandica | 2.5 | 2.9 | 2.9 |
| Trochammina nana | 2.4 | 5.0 | 13.3 |
| Benthics/10 cm³ | 57.3 | 179.3 | 22.5 |
| Benthics counted | 229 | 1004 | 81 |
| No. of species | 13 | 9 | 7 |
| % calcareous | 96 | 69 | 42 | 34 | 88 | 46 | 86 | 69 | 63 | 80 | 92 | 100 | 67 | 100 | 50 |
| Station no. | 242 | 239 | 242 | 239 |
|------------|-----|-----|-----|-----|
| Sediment depth interval [cm] | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
| 0–1 | 8.2 | 3.7 | 1.9 | 0.4 | 0.3 | 0.7 | 0.7 | 1.0 |
| 1–2 | 5.2 | 3.5 | 0.6 | 0.7 | 0.6 | 0.2 | 0.3 | 0.2 |
| 2–3 | 1.3 | 0.4 | 0.2 | 0.5 | 0.2 |
| 3–4 | 1.8 | 0.6 | 0.3 | 0.5 | 0.8 | 0.2 |
| 4–5 | 0.5 | 0.3 | 0.2 |
| 5–6 | 0.2 |
| 6–7 | 0.3 |
| 7–8 | 1.3 |
| 8–9 | 0.2 |
| 9–10 | |

**Table 12**

Densities of living benthic foraminifera in the upper 10 cm of the sediment retrieved in 2004 (samples 242, 239).

- **Adercotryma glomerata**: 0.2
- **Ammodiscus sp.**: 0.2 0.4 0.2
- **Angulogerina fluens**: 0.6
- **Astronion gallowayi**: 0.2
- **Buccella frigida**: 1.7 0.4 0.2 0.3 0.3
- **Cassidulina reniforme**: 4.5 1.6 0.6
- **Cibicides lobatulus**: 4.7 1.5 0.5 0.9 0.2 0.3 0.3 0.2
- **Cornuspira sp.**: 0.2
- **Dentalina spp.**: 0.3
- **Elphidium bartletti**: 0.4 0.2
- **Elphidium excavatum f. clavata**: 0.5 0.3 0.2
- **Islandiella helenae**: 5.2 3.5 0.6 0.7 0.6 0.2 0.3 0.2
- **Islandiella norcrossi**: 1.3 0.4 0.2 0.5
- **Labrospira crassimargo**: 8.2 3.7 1.9 0.4 0.3 0.7 0.7 1.0
- **Legena**: 0.2
- **Mioliidaespp.**: 0.3
- **Miliolinella sp. 1**: 0.2
- **Miliolinella sp. 2**: 0.2 0.2
- **Nonionellina labradorica**: 4.3 35.0 13.1 0.4 0.6
- **Polymorphinidae**: 0.2 0.2 0.3
- **Pyrgo williamsoni**: 2.8 2.3 0.2
- **Quinqueloculina stalkeri**: 0.5
- **Recurvoides turbinatus**: 1.5 0.2 0.2 0.2
- **Reophax scorpiurus, curtus**: 0.3
- **Silicosigmoilina groenlandica**: 0.3
- **Stainforthia leoblichi**: 0.3 0.8
- **Trachammina nana**: 0.7 0.2

**Benthics/10cm³**

|  | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0–1 | 6.6 | 1.9 | 0.6 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1–2 | 33.3 | 5.1 | 18.5 | 4.8 | 4.5 | 2.1 | 1.3 | 2.0 | 0.6 | 0.4 |
| 2–3 | 42 | 13 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 3–4 | 15 | 16 | 10 | 8 | 11 | 8 | 3 | 4 | 1 | 2 |
| 4–5 | 200 | 270 | 115 | 27 | 29 | 12 | 8 | 12 | 4 | 2 |
| 5–6 | 69 | 91 | 89 | 93 | 83 | 50 | 50 | 50 | 100 | 100 |
| 6–7 | 100 | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
| 7–8 | 100 | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
| 8–9 | 100 | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
| 9–10 | 100 | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
Table 13
Densities of dead benthic foraminifera in the upper 10 cm of the sediment retrieved in 2004 (samples 238, 236).

| Station no. | Sediment depth interval [cm] | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
|------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 238        |                            |     |     |     |     |     |     |     |     |     |      |
|            | Aderecotryma glomerata      | 9.4 | 17.5| 20.0| 55.0| 41.6| 16.0| 29.6| 29.3| 14.3|
|            | Ammodiscus sp.              | 4.7 |     | 12.5| 9.6 | 2.7 | 3.0 | 5.3 | 20.0|
|            | Angulogerina fluens         | 0.4 |     |     |     |     |     |     |     |     |
|            | Astronion gallowayi         |     |     |     |     |     |     |     |     |      |
|            | Buccella frigida            | 16.5| 14.5| 8.6 | 28.8| 17.3| 32.6| 40.9| 29.3| 28.6|
|            | Cassidulina reniforme       | 49.4| 81.5|237.1|127.5|112.0| 56.0| 88.9| 67.0|145.7|
|            | Cibicides lobatulus         | 7.1 | 14.5| 20.0| 20.0| 9.6 | 5.3 | 32.6|11.2 |24.0 | 22.9|
|            | Corruspira sp.              |     |     |     |     |     |     |     |     |      |
|            | Dentalina spp.              |     |     |     |     |     |     |     |     |      |
|            | Elphidium bartlettii        | 18.8| 8.7 | 8.6 |12.5 |32.0 |28.0 |59.3 |44.7 |54.3 |
|            | Elpidioides excavatum f. clavata | 115.3|177.5|114.3|297.5|297.6|114.7|225.2|249.3|250.7|302.9|
|            | Fissurina spp.              |     |     |     |     |     |     |     |     |      |
|            | Hippocrepina indivisa       |     |     |     |     |     |     |     |     |      |
|            | Islandiella helenae         | 18.8|29.1| 20.0| 22.5|44.8 |13.3|47.4 |33.5 |13.3 |54.3 |
|            | Islandiella norcrossi       |     |     |     |     |     |     |     |     |      |
|            | Labrosira crassimargo       | 40.0|64.0| 62.9| 90.0|115.2| 32.0|154.1| 85.6|128.0|108.6|
|            | Lagena spp.                 | 7.1 | 8.7 | 6.4 | 2.7 |     |     |     |     |      |
|            | Nonionellina labradorica    |     |     |     |     |     |     |     |     |      |
|            | Polymorphinidae             |     |     |     |     |     |     |     |     |      |
|            | Pyrgo willsionensis         |     |     |     |     |     |     |     |     |      |
|            | Quinqueloculina stalkeri     | 4.7 | 2.9 |     |     |     |     |     |     |      |
|            | Recurvoides turbinatus       | 21.2|26.2| 40.0| 30.0|44.8 | 8.0 |35.6 |14.9 |26.7 |31.4 |
|            | Reophax scoriarius, curtus   | 75.3|130.9|54.3 | 55.0|54.4 |26.7|53.3 |44.7 |58.7 |31.4 |
|            | Robertina arctica           | 2.4 |     |     |     |     |     |     |     |      |
|            | Rosalina sp.                | 0.7 |     |     |     |     |     |     |     |      |
|            | Silicosigmolina groenlandica |     |     |     |     |     |     |     |     |      |
|            | Spirplractammina biformis    |     |     |     |     |     |     |     |     |      |
|            | Stainforthia loeblichi       |     |     |     |     |     |     |     |     |      |
|            | Triloculina trihedra         |     |     |     |     |     |     |     |     |      |
|            | Trochammina nana             |     |     |     |     |     |     |     |     |      |
|            | Trochamminella atlantica     |     |     |     |     |     |     |     |     |      |
|            | Benthics/10 cm³              | 4.3 |27.9 |17.2 |57.4 |24.0 |22.9 |32.2 |47.9 |51.0 |48.0 |
|            | Benthics counted             | 17  |156  |62  |195 |163 |133 |187 |249 |255 |317  |
|            | No. of species               | 6   | 8   | 10  | 7  | 8  | 11 | 15 | 17 | 14 | 18   |
|            | % calcareous                 | 88  | 87  | 68  | 90 | 87 | 74 | 68 | 72 | 70 | 70   |
Table 14
Densities of dead benthic foraminifera in the upper 10 cm of the sediment retrieved in 2004 (samples 242, 239).

| Station no. | 242 | | 239 | |
|-----|-----|-----|-----|-----|
| Sediment depth interval [cm] | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 | 0–1 | 1–2 | 2–3 | 3–4 | 4–5 | 5–6 | 6–7 | 7–8 | 8–9 | 9–10 |
| Adercotryma glomerata | 0.2 | 0.2 | 0.2 | 0.3 | 0.6 | 1.0 | 1.0 | 1.3 | 1.6 | 0.3 | 2.3 | 4.7 | 4.0 | 1.6 |
| Ammodiscus sp. | 0.2 | 1.4 | 3.8 | 5.0 | 0.3 | 2.3 | 4.7 | 4.0 | 1.6 |
| Angulogerina fluens | 0.2 | 0.3 | 0.4 | 0.3 | 0.4 |
| Astronion gallowayi | 0.3 | 0.3 | 0.3 | 0.4 |
| Buccella frigida | 3.0 | 8.8 | 4.6 | 1.7 | 10.7 | 12.1 | 7.6 | 18.1 | 14.6 | 5.0 | 2.0 | 6.3 | 4.8 | 6.6 | 14.7 | 31.2 | 92.3 | 114.3 | 48.0 | 33.0 |
| Cassidulina reniforme | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 |
| Cibicides lobatulus | 2.3 | 4.7 | 4.0 | 1.6 |
| Cornuspira sp. | 0.2 | 0.7 |
| Dentalina spp. | 0.2 | 0.1 | 0.2 | 0.2 | 0.6 |
| Elphidium bartletti | 0.2 | 1.0 | 0.2 | 0.2 | 0.4 | 1.3 | 0.6 |
| Elphidium excavatum f. clavata | 0.3 | 0.7 | 1.2 | 0.7 | 0.4 | 1.4 | 1.6 | 8.5 | 12.2 | 9.4 | 0.7 | 4.4 | 18.9 | 24.6 | 12.2 | 5.0 | 25.3 | 66.7 | 16.0 | 6.8 |
| Fissurina spp. | 0.2 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| I. helenae | 0.2 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| I. norcrossi | 0.3 | 0.4 | 0.8 | 0.4 | 0.9 | 0.7 | 2.3 | 2.0 | 2.9 | 0.4 |
| Labrospira crassimargo | 0.2 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| Lagenia spp. | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Nonionellina labradorica | 0.2 | 1.5 | 0.6 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Polymorphinidae | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Pyrgo williamsoni | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| Quinqueloculina stalkeri | 0.8 | 1.6 | 0.2 | 0.2 | 0.6 | 11.7 | 15.0 | 8.5 | 0.3 | 2.0 | 0.6 | 0.7 |
| Recurvoides turbinatus | 0.6 | 0.2 | 0.9 | 0.7 | 0.3 | 1.0 | 1.1 |
| Reophax scorpiurus, curtus | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Rosalina sp. | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Silicosigmoilina groenlandica | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 | 0.7 | 1.0 | 0.7 |
| Spiroplectammina biformalis | 0.2 | 0.4 | 0.5 | 0.9 | 1.2 | 0.7 | 1.0 | 0.7 |
| Stainforthia loeblichi | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Triloculina trihedra | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Trochammina imbricata | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Benthics/10 cm³ | 4.8 | 15.0 | 6.8 | 3.0 | 11.7 | 13.8 | 10.0 | 40.2 | 42.0 | 23.2 | 7.7 | 22.1 | 40.0 | 43.9 | 45.9 | 54.3 | 151.7 | 243.7 | 100.6 | 58.9 |
| Benthics counted | 31 | 102 | 34 | 14 | 63 | 80 | 62 | 193 | 210 | 153 | 46 | 115 | 248 | 246 | 294 | 315 | 910 | 1462 | 704 | 330 |
| No. of species | 7 | 10 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 9 | 15 | 11 | 13 | 11 | 19 | 18 | 23 | 19 | 18 |
| % calcareous | 94 | 100 | 100 | 100 | 98 | 100 | 100 | 100 | 100 | 100 | 78 | 88 | 85 | 88 | 85 | 89 | 93 | 89 | 80 | 86 |
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Transparency document. Supplementary material

Transparency document associated with this article can be found in the online version at http://dx.doi.org/10.1016/j.dib.2018.01.046.

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Fig. 1. The sampling area. A. Svalbard. B. Tempelfjorden.