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H. H. GRAN: THE PLANKTON PRODUCTION IN THE NORTH EUROPEAN WATERS IN THE SPRING OF 1912

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PREFACE

At the sittings of the Plankton Section during the meeting of the International Council in April 1912, the question of future plankton work was thoroughly discussed, and the plankton specialists present agreed upon the importance of the quantitative study of the micro- and nannoplankton according to a method recently proposed by Professor H. H. Gran (Public. de Circonstance No. 62). The discussion resulted in the following considerations (Rapp. et Proc. Verb. XIV, p. 94):

"It is urgently desired that quantitative determinations of the Microplankton and Nannoplankton should be carried out on all opportunities when trustworthy results of general importance can be expected. It is recommended that the centrifugal method should be applied to samples taken at different depths with the waterbottle. As Prof. Gran has shown in Publication de Circonstance No. 62, such water samples can be preserved with Flemming's solution for future examination of many of the most important species.

It is particularly desirable that the opportunity should be taken of the cruises in May 1912 to make the most complete collection possible of material by this method at all stations and at depths of 0, 5, 10, 20, 30, 40. 50, 60, 80 and 100 meters and greater depths. Prof. Gran has expressed his willingness, for this occasion, to work out any portion of the material which cannot be examined by other investigators".

According to these considerations the Council passed the following resolution (ibid. XIV, p. 32):

Resolution 15.

That it is extremely desirable, that quantitative investigation should be made of the Microplankton on the method proposed by Prof. Gran (cf. Public. de circonst. 62).

VORWORT

Während der Zusammenkunft des internationalen Zentralausschusses im April 1912 wurde in den Sitzungen der Planktonabteilung die Frage der zukünftigen Planktonarbeiten gründlich erörtert, und die anwesenden Planktonspezialisten einigten sich über die Wichtigkeit qantitativer Untersuchungen des Micro- und Nannoplanktons nach der kürzlich von Prof. H. H. Gran (Public. de Circonstance No. 62) vorgeschlagenen Methode. Die Discussion zeitigte die folgenden Schlüsse (Rapp. et Proc. Verb. XIV, p. 95):

»Es ist dringend erwünscht, quantitative Bestimmungen über das Mikroplankton und Nannoplankton bei solchen Gelegenheiten auszuführen, wo zuverlässige Resultate von allgemeiner Bedeutung zu erwarten sind. Es wird empfohlen die Centrifugenmethode auf Proben, die mit Wasserschöpfer aus verschiedenen Tiefen gewonnen sind, anzuwenden. Wie Prof. Gran in Publ. de Circonst. No. 62 gezeigt hat, können solche Wasserproben für die Untersuchung vieler der wichtigsten Arten mit Flemmings Flüssigkeit für spätere Bearbeitung konserviert werden.

Es wäre besonders zu wünschen, dass die Gelegenheit benutzt werde, im Mai 1912 ein möglichst vollständiges Material während der Terminfahrten nach dieser Methode von allen Stationen aus den Tiefen 0. 5, 10, 20, 30, 40, 50, 60, 80 und 100 m bezw. aus grösseren Tiefen zu sammeln. Prof. Gran erklärt sich bereit, bei dieser Gelegenheit diejenigen Teile des Materials zu bearbeiten, die nicht von anderen Forschern untersucht werden können«.

Auf Grund dieser Schlüsse nahm der Zentralausschuss folgende Resolution an (ibid. XIV, p. 33):

Resolution 15.

Es ist dringend erwünscht, quantitative Bestimmungen über das Mikroplankton auszuführen unter Anwendung des von Prof. Gran benutzten Verfahrens (cf. Public. de circonst. 62).

The investigations alluded to in the above considerations and resolution were carried out in May and June 1912 by Denmark, England, Holland, Norway, Scotland and Sweden, and the material collected was sent to Prof. Gran (the Scottish material excepted) for examination. He has now, assisted by Miss Ogilvie as regards the Scottish material, completed his task, and the important memoir published in the following pages is the result of this arduous work for the accomplishment of which the International co-operation of the study of the sea is greatly indebted to him.

Die in obigen Schlüssen und Resolutionen angeführten Untersuchungen wurden im Mai und Juni 1912 von dänischer, englischer, holländischer, norwegischer, schottischer und schwedischer Seite aus ausgeführt, und das gesammelte Material mit Ausnahme des schottischen wurde Herrn Prof. Gran zur Untersuchung eingesandt. Dieser unterstützt durch Miss Ogilvie soweit es das schottische Material betrifft, hat sich jetzt seiner Aufgabe erledigt, und die in den folgenden Seiten veröffentlichte wichtige Abhandlung ist das Resultat seiner grossen Arbeit, für deren Vollending die internationale Meeresforschung ihm zu grossem Dank verpflichtet ist.

THE PLANKTON PRODUCTION

OF THE NORTH EUROPEAN WATERS IN THE SPRING OF 1912

BY

H.S. OGILVIE and H. H. GRAN

INTRODUCTION

THE International Investigation of the Sea has, from the commencement of the work in 1900—01, included in its programme an examination of the production of the sea by quantitative determinations of the plankton at different places and at different seasons.

A method for this examination had already been worked out several years before by HENSEN (1887), who was also the first to bring forward the question of the production of the sea for systematic scientific investigation. A water column of a certain length and base is filtered, a net of fine miller's gauze with a certain accurately determined diameter being drawn vertically a certain distance through the water. The quantity of water actually filtered is equal to the product of the distance and the diameter of opening plane of the net multiplied by a filtration-coefficient previously determined by experiment for the net-model employed.

The samples collected are examined quantitatively, partly by volume- or weight-determinations of the total amount of plankton obtained, partly by counting the individuals of the different species in accurately measured parts of the sample.

The more important sources of error, of which HENSEN himself was aware from the beginning, are 1), the escape of a number of organisms through the mesh of the net, some species being probably not caught at all and others not in proportion to the number present, and 2), the inconstancy of the filtration-coefficient, which is very considerably diminished when the plankton contains an abundance of slimy algæ such as *Phaeocystis* and certain diatoms, a variation which cannot be accurately determined.

The existence of the first of these sources of error especially has been proved by actual experiment by LOHMANN (1901, 1902, 1903), who found it considerably greater than had hitherto been expected. On the one hand, it was found that a whole series of economically more or less important small forms (Nanno-plankton) were not caught at all, while, on the other hand, the proportion even of such large organisms as *Ceratium furca* and *fusus* which passed through the meshes was surprisingly great.

Another objection raised against HENSEN's method, in particular by HAECKEL (1890), was that the small samples, taken thus locally with a net, could not be representative of any great part of the sea, owing to the fact that the character of the plankton may differ from place to place at short intervals. This objection has, however, been found to be of no practical importance. All later investigations have proved, that the plankton under equal conditions of life is evenly distributed over great areas, so that even quite small samples are sufficient to give a picture of its character, both as regards quality and quantity. This particularly applies to the smaller forms, with which it is reasonable to begin the examination (cfr. LOHMANN 1908).

Investigations on the plankton of the sea, according to HENSEN's method, have been carried out by a series of workers, and have given great and important results. In the course of HENSEN's great

Atlantic expedition in 1889, it was recorded, that the total quantity of plankton in the open sea in the tropics is considerably smaller than in temperate waters, such as the North European coastal water. By investigations carried on throughout the year in the Baltic (BRANDT), in the Mediterranean near Naples (SCHÜTT 1892), in the Karajakfiord in the north-west of Greenland (VANHÖFFEN 1897) it has been proved, that the quantity of plankton changes periodically in the course of the year. The maximum does not always appear at the warmest season, but on the contrary, often in the autumn and the spring. The investigations by KRAEMER on the remarkably poor plankton round the coral reefs must also be mentioned.

There was already sufficient material to form a basis for BRANDT's well known theories respecting the decided importance of dissolved nutritive substance and especially of the nitrogen-compounds for the production of plankton[1] and for further investigations as to the occurrence and physiological activity of the denitrifying bacteria[2] and the presence of the soluble nitrogen-, phosphorus and silica-compounds[3].

These important results were already attained by determinations, in themselves more or less rough and inaccurate, of the volume of the total quantity of plankton. The only method of examination allowing of really quantitative analysis of the plankton, viz. determination by actual counting of the occurrence of the separate species, was, on the other hand, of smaller importance, as long as the material consisted of the samples caught by net according to HENSEN's method. There exists, it is true, a number of observations, especially from the "National" expedition in 1889 (HENSEN 1911); but the results are disproportionate to the enormous amount of work involved, which occupied a long period of years. Moreover, the value of the results is lessened by the uncertainty in the determination of the species, which it is impossible to avoid, when, owing to the extent of the work, it is necessary to employ untrained assistants.

The quantitative method of counting as applied to net samples has, however, not prevailed to any extent outside the Kiel school. During the International Investigations it has been employed by APSTEIN (1905) for the material from the German quarterly cruises in the North Sea and the Baltic in 1903, by DRIVER (1907) for similar material from the Baltic in 1905, by MERKLE (1910) for investigations in the Baltic in July—August 1907, by MIELCK (1911) for the North Sea cruises in February and May 1906 and by LÜCKE (1912) for investigations throughout the year 1910 from the Borkum Riff lightship in the Baltic. In the other countries, apart from the countings of the Copepoda recognizable when slightly magnified, the determinations have been restricted to the roughly estimated occurrence of the different species, according to CLEVE's method. A large and valuable amount of material relating to the biology of the separate species has been collected, and dealt with by a series of authors specially qualified to deal with the separate groups[4].

The development of the investigations along these lines is due to the fact that the object of the research was not so clearly stated as to warrant the expectation of results proportionate to the great amount of work involved by the counting. HENSEN's main object was to examine the whole of the plant-producing water column collectively from the surface to the bottom, or to a depth limit of 200 m. Since, however, the point of the investigation is to determine the laws governing the production of plankton by studying the conditions of development and the whole biology of the most productive species, it becomes necessary to carry the analysis a step further. A vertical water column can never offer to the organisms quite equal conditions of life, even if water layers do not, as at most places in the Baltic, the Kattegat, the Skager Rak and the North Sea, appear one above the other, and present widely different hydrographical characters. The intensity of the light will at any rate vary so much with the

[1] BRANDT 1899, 1902.
[2] BAUR 1901, GRAN 1902 a, FEITEL 1903.
[3] RABEN 1904. 1905, 1910.
[4] Resumé des observations sur le plankton des mers explorés par le conseil pendant les années 1902—1908 I—III. Copenhague 1910—13.

depth as to render it absolutely necessary to determine the character of the plankton, qualitatively and quantitatively, at stated depths, where all the conditions of life can be precisely determined.

It was thus already a considerable advance, when PETTERSSON commenced to fix plankton bags at different depths on rheometer-apparatus, and to compute, from the velocity of the current, the approximate quantity of the water mass filtered through each net. Samples thus taken, quantitatively determined by BROCH, have already given valuable results. Still more important was LOHMANN's demonstration of the fact that small water samples taken in water bottles, furnished when centrifugalised, a sufficiently exact determination of the quantity of plankton for a whole series of species. In his important work on the yearly periodicity of the plankton at Laboe, near Kiel (1908), LOHMANN has carefully worked out this method and used it for a series of exceedingly valuable determinations on the fluctuations of the separate species and the aggregate amount of plankton taken in the course of a year. He also furnishes, on the basis of some accurate observations at certain depths, calculation of the mean values for the whole of the water column from the surface to the bottom. The value of these calculations rests chiefly on the fact, that the results can be compared with the results of the investigations by means of vertical hauls. For our purpose, however, i. e. analysis of the occurrence and conditions of life of the most important species, such calculations and comparison are of no great value, and LOHMANN himself has also in his later works come to the conclusion, that „Wollen wir hier eine exakte Analyse der Planktontieren und ihrer Existenzbedingungen haben, so müssen wir also unbedingt auf die Abfischung vertikaler Wassersäulen von solcher Länge, dass verschiedene hydrographische Zonen durchschnitten werden, verzichten, und werden nur dann sicher gehen können, wenn wir jeden Fang einer ganz bestimmten Wasserschicht entnehmen, die zugleich hydrographisch untersucht wird“[1].

HENSEN (1912) and BRANDT, however, insist that the whole of the water column should be examined, and recommend for this purpose the employment of a rubber tube, immersed in a vertical position at a certain depth and thereafter emptied into a reservoir on deck, so that one can get an evenly mixed sample of water from all depths between the surface and the lower end of the tube. This would, in my opinion, only retard the progress of the investigations, the average of the total amount of organisms in the water column being far less valuable than precise information in a single instance as to the conditions at a certain depth. On the other hand, given a series of observations from different depths, it is possible from these to form an opinion as to the extent to which averages for the occurrence within a certain water layer can be profitably calculated. The investigations described in the following pages furnish illustrations both of great vertical variations in the character of the plankton even at very short distances, and of cases where it is so equally distributed throughout the whole the water mass, that a calculation of average values may be perfectly justifiable.

LOHMANN's centrifugal investigations near Laboe were based exclusively on living material in fresh samples. The same applies to my own investigations on the Atlantic expedition with the "Michael Sars", where the plankton was often so poor, that water samples of 300 cc were necessary in order to obtain values representative of the quantity of the plankton (MURRAY and HJORT, 1912, p. 362). The same method was also employed by LOHMANN in his important and valuable investigations in the Atlantic on board the "Deutschland" in 1911 (LOHMANN 1912 a, b). We had here the advantage of being able to determine a series of species, which it is difficult to preserve in a recognizable state, and out in the open sea these forms play a particularly prominent part in the plankton. The method, however, had this serious disadvantage, that it was only possible to examine a relatively small number of samples from each station. A more perfect method would be to get a closer series of observations from the surface downwards, from which curves might be drawn showing the vertical occurrence of the separate species, enabling us pos-

[1] LOHMANN 1912 b, p. 192.

sibly also gradually to acquire data for the study of their dependence on various conditions such as light, temperature, salinity and the occurence of nutritive matter.

This could not be done unless some means were found to preserve the water samples for later examination. Such a means, thorougly satisfactory for many forms, I have found in FLEMMING's fluid (the stronger solution), added to the water samples immediately after they are taken, in the proportion of 1 : 20 (GRAN 1912). An experiment with water samples collected according to this method in the Norwegian Sea during May 1911 ("Michael Sars") and in the Skager Rak in May 1911 and February 1912 (by the courtesy of Professor O. PETTERSSON), was successful. At the meeting of the International Council in Copenhagen it was thereafter decided, that in May—June 1912 samples should be collected according to this method throughout the whole of the International area, and a sum for assistance in dealing with the entire material was placed at my disposal.

The collection was satisfactorily carried out, save for the fact that observations from the German area in the south-eastern corner of the North Sea are unfortunately lacking. The absence of these observations can only partly be made up for by using for comparison APSTEIN's (1905) and MIELCK's (1911) quantitative investigations from this area in May 1903 and 1906.

During these investigations I have been assisted by Miss CAROLINE LEEGAARD, who together with me examined the Danish, Swedish, English, Dutch and Norwegian material, and a portion of the Scottish. In addition, Miss HELEN S. OGILVIE, of Dundee, has independently worked out the greater part of the Scottish material, dealt with by her in a special chapter with accompanying tables.

In the course of these investigations we obtained our first impressions of the advantages and restrictions of the method. It is hoped that the following account will demonstrate how the method may be of service in throwing light upon various conditions not previously open to a scientific examination, or of which but vague conceptions could be formed. In such cases as at the Danish station Da. 1860 in the Kattegat, the hydrographical conditions varying greatly with the depth, and the hydrographical observations being exceptionally complete, the quantitative determination of the plankton in the water samples from certain depths may, for convincing clearness, almost be compared to a biological titration. In other cases the conditions are less evident, but even where no decisive conclusions can be formed, the results still furnish suggestions for further investigations.

The restrictions of the method are also distinctly evident. It is not, and cannot more than any other, become a universal method. All larger and all rarer forms are excluded from examination, particularly where the plankton is so rich, that it becomes impossible to collect the contents of the larger water samples under a cover-glass. On the other hand, we find, in a well preserved state, a series of smaller forms, which in the net samples are either not caught or not satisfactorily preserved, such as the *Laboea*-species and other ciliate Infusoria, *Mesodinium*, the *Gymnodinium*-species, *Prorocentrum* and the smallest *Dinophysis*-species. The method is, however, less fit for the true Nanno-plankton; even the *Exuviaella*-species easily elude observation and the small Flagellata are, no doubt, generally passed over in the examination of the samples, unless very high magnifying powers are used. These are, however, less suitable for the purpose; because small forms like the above-mentioned do not, at least as a rule, play such an important part in our waters as to make it worth while to spend four times the amount of time over the examination and thereby restrict the scope of the whole work[1]. For the present, at any rate, our aim

[1] The counting is generally carried out with ZEISS's achromatic lens C., giving a field of view of somewhat more than 0.8 mm. The object-slide used as a counting plate, has diagonal lines at intervals of 0.4 mm. In more difficult cases the achromatic lens E. is used, the diameter of the field of view being then rather more than the distance between two lines (0.4 mm).

is to get a general view. And, with this object now before us, the important point is not first of all to learn the total sum of all the organisms in our water samples, but to follow from sample to sample the quantitative variations of a series of accurately determined species, which illustrate the laws for the production and destruction of organic substance in the ocean. We therefore choose as many as possible of such species which are found, be it in few or many of the samples, in sufficient numbers to furnish adequate material for a reliable determination. Those species, on the other hand, which always occur sparsely, are of less importance to us. It is in the determination of the common species that the value of the investigations rests. This does not, however, prevent our reporting everything observed, even such forms as we are for the present unable to determine. We have found it right to do so, since we may safely conclude that observations now considered unimportant may turn out to be of more value later on.

In the tables containing the results of our observations, all records are given in numbers of individuals (cells) pr. litre. Below the hydrographical data in each column is given the quantity of each water sample examined, thus enabling the reader to judge to what extent the figures can be considered reliable. Where two values are given, as for instance 50 (10), this indicates that a few species which occur very abundantly have been enumerated in a sample of 10 cc, while all the others have been enumerated in a sample of 50 cc. Generally samples of 50 cc, but sometimes of 100 cc, are used, an extra determination of 50 cc being usually made in the case of the *Ceratium*-species, and added to the first, so that the water sample in question may be stated as 100 cc.

According to HENSEN, the investigation ought at any rate to be so far exact as to render the number observed at least the square root of the number reported in the table.

For 100 cc examined, with a multiplication factor of 10, the corresponding minimum value will thus be 100
- 50 - — — — 20 — — — 400
- 10 - — — — 100 — — — 10000

Many of the figures in the tables do not fulfil these conditions. They give, however, at any rate, some information, and can sometimes also be used for calculating mean values which are serviceable, even if the separate figures are not. They can especially serve as a basis on which to calculate the average occurrence in regard to depth of relatively rare species, as has frequently been attempted in the following pages. Where the hydrographical conditions are more or less constant, such a calculation may be of some value, at any rate as a preliminary.

The following description has been arranged thus:

I. *Special part.*
   1. The Danish, Swedish, Dutch, English and Norwegian Investigations. By H. H. GRAN.
   2. The Scottish Investigations. By HELEN S. OGILVIE.

II. *General part.* By H. H. GRAN.
   1. Remarks on the separate species.
   2. On the general conditions of life of the plankton production.
      A. The variation of the quantity of plankton according to the depth.
      B. Horizontal quantitative variations in the plankton.
      C. Seasonal variation in the quantity of plankton.

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obvious result in the vertical distribution, we almost invariably find an abrupt transition at certain depths between the rich plankton of the surface layers and the lower water masses with poorer vegetation. This limit is not situated at a uniform depth throughout. At the stations N 5, 6, 8, 11, 12, 13, 14, 15 and 17 it lies between 30 and 50 m, at N 4 and N 16 between 50 and 75 m, at N 10 between 75 and 100 m, and at N 7 between 150 and 200 m.

This limit corresponds in all cases to a hydrographical limit, indicated by a fall of at least half a degree in temperature, while the water layer above is relatively homogeneous, apart from the fact that several stations exhibit varying conditions at the actual surface. The algæ-bearing water layer above these limits is also in biological respects remarkably homogeneous. The variations in the quantity of plankton are at any rate far from being so regular as to suggest that they are determined by the decrease in intensity of the light occasioned by the increasing depth. The maximum lies, however, almost everywhere below the surface. We are thus forced to conclude that a considerable vertical mixture has taken place, either of the whole water layer or at any rate of the diatoms, by vertical movements within the water layer. These questions will be treated more particularly in the chapter on vertical distribution.

The great variations in the position of the depth limit, or, in other words, in the volume of the algæ-bearing surface layer, may perhaps be most correctly explained as due to the fact that this layer, normally appearing to be a little more than 30 m deep, may sometimes extend to greater depths, owing to hydrographical conditions. A point which immediately suggests itself in this connection is the occurrence of the submarine waves first observed by HELLAND-HANSEN[1] in this very water, and also found by LEA on the same voyage during which the plankton samples here dealt with were collected.

2. THE SCOTTISH INVESTIGATIONS

BY

HELEN S. OGILVIE, M. A., B. Sc.

During May and the early part of June 1912, an extensive collection of plankton samples was made by the Scottish "Goldseeker" off the east and north coasts of Scotland and in the Faeroe-Shetland Channel. The material thus obtained may conveniently be dealt with in four sections according to the locality in which it was collected:

I Faeroe-Shetland Channel, Southern Section.
II — — , Northern —
III North Sea, Northern Section.
IV — , Southern —

The first and second sections extend from the south-west of the Shetland Islands to the south-east of the Faeroes and from the north of the Shetlands to the east of the Faeroes respectively. The third section comprises a line of stations in Lat. 61½° N. between Long. 2° W. and 4° E. reaching very nearly

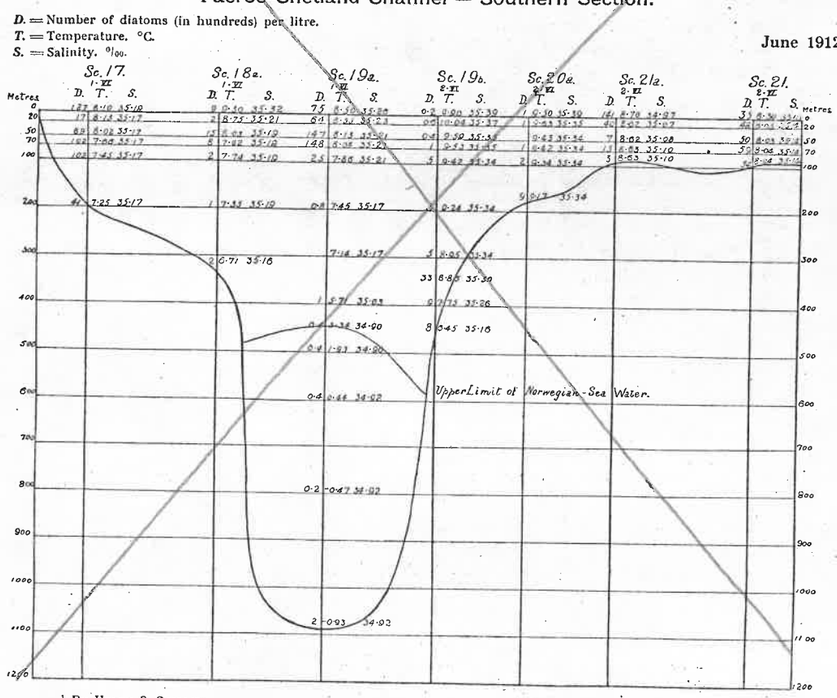
[1] HELLAND-HANSEN and NANSEN 1909, p. 87.

to the Norwegian coast. The fourth heading comprises three sections, one between the Moray Firth and the Utsire Light on the coast of Norway, another between that point and the east of the Shetland Islands, while the third extends from there southwards to meet the first opposite Kinnaird Head.

I. Faeroe-Shetland Channel — Southern Section.

Table VIII[1].

The plankton of this section, and of the Northern section as well, exhibits great irregularity in its distribution, both vertically and horizontally. The most abundant plankton is found at station Sc. 17, that nearest the Faeroes and at station Sc. 19a the next but one to it, but at neither of these stations are



[1] By HELEN S. OGILVIE.

These observations agree in the main with the results of previous investigations. According to the tables given for May and June in the "Bulletins" *Chaetoceras debile* occurs frequently at all stations in the Channel except Sc. 19b, Sc. 19a and Sc. 15b, and is usually given as "cc". In 1912 it presented a similar occurrence. The records for the three other species of *Chaetoceras* which occurred plentifully in 1912 are somewhat incomplete. *Chaetoceras compressum*, which in 1912 was abundant at the Faeroe side and was also present in considerable numbers at the Shetlands, does not seem to be so regular a constituent of the plankton of this region as *Ch. debile*, as, between 1903 and 1910, only two records ("c") are given, which occurred in 1904 at stations Sc. 16 and Sc. 17 near the Faeroes. In May 1910 *Ch. laciniosum* was present ("cc") at stations Sc. 13a and Sc. 14a, and was also found ("c") at Sc. 20a in 1908, but for further records of its occurrence we have to go back to 1903 when it was again found abundantly at the same stations and also at Sc. 19b. At the same time there are no records of this species from the more westerly stations and this agrees with the results of 1912. The previous records of *Ch. constrictum* which occurs with fair regularity from 1903 to 1908 are, with the exception of one record ("c") at Sc. 19a, confined to stations Sc. 12, Sc. 13a, Sc. 14, Sc. 21 and Sc. 20a, all on the Shetland side. In May 1912 on the contrary it was only present at stations Sc. 16 and Sc. 17, close to the Faeroes. A more complete series of observations would throw further light on these points.

III. North Sea — Northern Section.

Table X[1].

This section lies approximately across the entrance from the North Sea to the Norwegian Sea, and comprises eight stations, the two most westerly of which lie directly to the north of the eastern end of the Northern Section of the Faeroe-Shetland Channel. The four eastern stations are situated within short distances of one another, the most westerly of the group lying about 120 miles from the Norwegian coast.

In hydrographical respects the conditions at the four westerly stations are very similar to those found in the Faeroe-Shetland Channel. From the records of salinity and temperature, it is evident that the Atlantic stream in its northward course, after leaving the Channel, crosses that part of the section in which stations Sc. 11 and Sc. 10 are situated, and the water at station Sc. 11a and at station Sc. 9, the stations on either side of those, is still so saline that it must have originated in large measure in the Atlantic stream also. The influence of the less saline water from the Norwegian coast is first seen at station Sc. 9 and there only at the actual surface. To the east of this, however, an abrupt decrease in the salinity of the surface layers takes place, the surface reading at station Sc. 9 being 35.07 ‰ while that at Sc. 8 is only 33.10 ‰. The lowest surface record of salinity, viz. 32.79 ‰ occurs at Sc. 8b, the record at Sc. 8c, which is situated nearer the coast, being 33.04 ‰. That this fresher water only floods the surface while the salt Atlantic water persists below it and extends to the bottom is shown by the fact that at all these stations the salinity increases with great regularity to an average record of 35.08 ‰ at the bottom, the greatest increase taking place in all cases between 20 m. and 50 m. At station Sc. 11a, the most westerly of the section, and the only station at which sufficient depth is attained, the deeper regions are filled, as in the Channel, with Norwegian-Sea bottom water, the surface limit of which is reached at 300 m.

Returning to the westerly group of stations we find at Sc. 11a a diatom-flora which, except for the large quantities of *Nitzschia delicatissima* present to a depth of 30 m., is remarkably poor. Of other species *Chaetoceras laciniosum* and *Ch. contortum* may be mentioned though occurring in small numbers, as these are among the species found plentifully in the neighbourhood of the Shetlands. *Peridiniales* are

[1] By Helen S. Ogilvie.

scarce except *Gymnodinium Lohmanni* and of *Protozoa* the most abundant are the small *Laboea* spp. and *Cyttarocylis norvegica*. By far the greater proportion of the plankton is found at and above 30 m., the numbers of organisms occurring below this depth being quite inconsiderable.

Station Sc. 11 and the following station Sc. 10 are the two situated most directly in the path of the current from the Atlantic. The high salinity is very constant at all depths only showing a very slight fall below 70 m. Diatoms are abundant, particularly *Nitzschia delicatissima*, but several species of *Chaetoceras* are also well represented notably *Ch. laciniosum* and *Ch. compressum*, while *Ch. constrictum* and *Ch. decipiens* are also present in smaller numbers. *Thalassiosira gravida* is also rather plentiful and a fair amount of *Nitzschia seriata* occurs along with *N. delicatissima*. The maximum for several of the species, and in particular for *Nitzschia delicatissima* occurs at a depth of 50 m. *Peridiniales* are on the whole scarce and the *Protozoa* are again dominated by the small species of *Laboea*, while *Cyttarocylis norvegica* is in this case less plentiful than *C. denticulata*.

At station Sc. 10, although the records for temperature and salinity are nearly as high as at the last station, diatoms show a great falling off both in numbers of species and individuals. *Nitzschia delicatissima* is again the only abundant species. *Thalassiosira gravida* is the most plentiful of those remaining, and several species of *Chaetoceras* are recorded, but all in small numbers. *Peridiniales* are rather more numerous at this station especially *Gymnodinium Lohmanni*, and *Protozoa* much more so, the numbers being made up chiefly of the same species as at the preceding station.

At station Sc. 9, the last of the group, the plankton is richer than at any other point in the section. The salinity record viz. 35.25 ‰ remains constant from 10 m. to 300 m., but the surface reading falls to 35.07 ‰ indicating that the influence of the water from the Norwegian coast is beginning to make itself felt. Biologically also this point is clearly shown. At the surface the species of diatoms recorded are considerably fewer than in the deeper layers, while the reverse is the case with the *Peridiniales* which reach an undoubted maximum in this same surface water. This layer appears to offer specially favourable conditions to the *Protozoa* also. Of the *Chaetoceras* species *Ch. scolopendra* is the most abundant, then *Ch. compressum* and *Ch. constrictum*. *Ch. laciniosum* is also present but in small quantities and *Thalassiosira gravida* is plentiful. The *Peridiniales*, as has been mentioned, are chiefly confined to the surface and the *Ceratia* entirely so. *Gonyaulax spinifera* heads the list with a record of 3520 cells per l. and is followed by *Gymnodinium Lohmanni*. Of the *Ceratia*, *C. longipes* is, as is usually the case in these northern waters, the most abundant species. In all 8260 cells of *Peridiniales* per l. are found at the surface, a number much in excess of any recorded at the preceding stations, while at 10 m. only 1200 per l., about the average number, are present. The *Protozoa* consist for the most part of the usual species of *Laboea*, *L. conica* being particularly numerous, but *Cyttarocylis denticulata* and *C. norvegica* are both abundant also.

The character of the plankton at all the stations in this group is distinctly that of the Faeroe-Shetland Channel, and in particular of the Shetland side, but again irregularities occur in its distribution for which it is difficult to account. The great similarity of the plankton at station Sc. 11 to that at Sc. 12 has already been noted and is easily understood as both stations lie well within the course of the Atlantic current. The plankton at the neighbouring stations on either side is by no means so rich, *Nitzschia delicatissima* being the only abundant diatom-species, but again the same was found to be the case at station Sc. 14a to the west of the Shetlands. The remarkable abundance of the plankton at station Sc. 9, which is situated a considerable distance to the east, is not so easily explained. As however it consists in all essential respects of the same species as are found at the stations close to the Shetlands, it seems probable that, if it has not been actually carried from that neighbourhood in such quantities, although owing to the easterly direction in which the current flows when entering the Norwegian Sea this is not altogether impossible, the organisms from which it has developed had their origin there and continued to reproduce

themselves as they were borne onwards by the stream. Moreover, the salinity at this station is still so high as to indicate that the Atlantic water has only been slightly influenced by the fresher water from the eastward.

The four stations (viz. Sc. 8, Sc. 8a, Sc. 8b and Sc. 8c) which form the next group are so similar that they may be treated together. The salinity is in all cases low (cf. p. 44), but increases towards the bottom, and the temperature also is considerably lower than at the preceding stations, the average record at the surface for the four stations being 7°.5 compared with 8°.9 for the western group. The most striking feature of the plankton is the almost complete absence of diatoms. Only a few scattered individuals are found and at two of the stations the total number of diatom-cells collected from all depths only amounts to 160 per l. The *Peridiniales* on the contrary are strongly developed, particularly the *Ceratia*, but are found almost exclusively at and above 30 m. Within these limits their distribution is regular at least to a depth of 20 m. They are most plentiful at stations Sc. 8 and Sc. 8a, the most westerly of the stations, and *Ceratium longipes* is in all cases the most abundant species. *Protozoa* are on the whole scarce at these stations with the exception of Sc. 8c, the station nearest the coast, and this fact may be correlated with the comparatively low temperatures obtaining. The predominance of *Peridiniales* is characteristic of the Norwegian coastal water and will be referred to again when the Norwegian stations to the north of this section are dealt with.

It is thus evident that the stations of this section fall naturally into two groups, a western group comprising stations Sc. 11a—9, in the plankton of which diatoms play the most important part and the stations of which resemble in biological respects those of the Faeroe-Shetland Channel, and an eastern group comprising stations Sc. 8—8c, in the plankton of which *Peridiniales* and particularly the *Ceratium spp.* are predominant, and which lie within the range of the Norwegian coastal water. In this particular section, the transition from the predominantly Atlantic water of the western part, to the shore water of low salinity with which the eastern part of the section is flooded, is exceedingly well marked, the boundary line between the two waters, each with its characteristic plankton being found between stations Sc. 9 and Sc. 8, that is considerably to the east of the centre of the section.

IV. North Sea — Southern Section.

Table XI[1].

Three sections are included in this division, the first reaching from the Moray Firth to Utsire on the coast of Norway. Along this line, during the course of the cruise carried out in May 1912, collections were made at ten stations situated at fairly regular intervals. The second section extends from Utsire in a north-westerly direction to the Shetland Islands, and the third from there southwards to a point somewhat to the south of the line of the first, which it cuts in the neighbourhood of station Sc. 32. This section comprises six stations, while the second, excluding the two terminal stations which may be taken as belonging to the first and third sections, comprises five.

The hydrographical conditions may be briefly summarised as follows. Within the Moray Firth the water is, as might be expected, comparatively fresh. At station Sc. 28, the station nearest the shore, the salinity recorded at the surface is 34.38 ‰. A gradual but regular increase is observed to the eastward until station Sc. 36 is reached, where the surface record is 35.17 ‰. The high salinity of the central region of the section at this season is due to the presence of Atlantic water derived from the off-shoots of the Atlantic stream in its passage through the Faeroe-Shetland Channel which flows into the North Sea

[1] Station Sc. 28, 34, 38, 38 b, 38 c, 38 e, 38 *g* and 38 i by Caroline Leegaard, the rest by Helen S. Ogilvie.

round the north and south of the Shetland Islands. These off-shoots usually unite before reaching the line of the section, their greatest influence being observed in the neighbourhood of station Sc. 36. At this time, however (May 1912), the salinity is found to be equally high, indeed slightly higher, at station Sc. 38b, while at the two interjacent stations Sc. 38 and Sc. 38a it is comparatively low. This would appear to indicate that the northern branch has assumed a more easterly direction than usual and that its influence is still apparent in the section as far to the east as Sc. 38b.

At the two remaining stations of the section the conditions are altogether different. There, as was found to be the case with the most easterly stations of the Northern Section, the surface layers consist of water of low salinity originating from the Norwegian coast. The salinity increases downwards, however, the water of the deeper layers being similar to that found at all depths at the more westerly stations. Following the line of the second section from this point westwards, we find that the coastal water is again strongly in evidence at station Sc. 38e, but considerably less so at the two next stations Sc. 38f and Sc. 38g. In this section, then, the transition from the coastal water of the eastern part to the Atlantic water of the western is much more gradual than in the first. The next station, Sc. 38h, however, exhibits strong Atlantic influence, the surface record being 35.08 ‰, while at Sc. 38i the salinity is the highest recorded at any point in the three sections, and is due to the influence of the more northerly branch of the Atlantic stream already referred to, which probably also accounts for the records at station Sc. 5a, the first station of the third section, which are equally high except from the surface to 20 m.

At the two following stations the salinity falls somewhat, but is again found to be high at station Sc. 3, which is evidently situated within the range of the branch which flows round the south of the Shetlands. Still further south, at stations Sc. 2 and Sc. 26, the influence of the Scottish coastal water again makes itself felt, and the salinity is consequently on the decrease. It may be noted, however, that the records from this region are by no means so low as those from the vicinity of the Norwegian coast, there being a difference of 1.3 ‰ between the lowest readings in the two cases.

The range of temperature recorded is on the whole slight. At the stations of the first section, from Sc. 28 to Sc. 38b, as well as at Sc. 38i and all the stations of the third section, the temperature is highest at the surface and with few exceptions falls gradually and more or less regularly to the bottom. At the remaining stations, which are influenced by the Norwegian coastal water, the surface temperatures are much lower than at the other stations. A decrease usually takes place from the surface to a depth of about 50 m., when the temperature again rises rather quickly, the surface limit of the underlying Atlantic water being reached at about this depth.

With regard to the biological features of the sections, station Sc. 28, the most westerly of the stations, is situated within the Moray Firth not far from the shore. The depth recorded is only 20 m. The diatom-plankton is poor, *Thalassiosira gravida* being the only abundant species. There is, however, rather a strong development of such small *Peridiniales* as *Exuviaella baltica*, *Gymnodinium Lohmanni*, *G. sp.* and *Dinophysis acuminata*. Among the *Protozoa*, too, the small species of *Laboea*, *Mesodinium* and *Tintinnopsis beroidea* are fairly abundant.

The next two stations present an increasingly plentiful diatom-flora, which at station Sc. 32, the more easterly of the two, may be described as very abundant. The outstanding feature is the predominance of *Thalassiosira gravida*, which occurs here in very large numbers, accompanied at station Sc. 32 by almost equal numbers of *Th. Nordenskiöldii*[1]. Some species of *Chaetoceras* are also plentiful, especially *Ch. debile* and *Ch. decipiens*, and at station Sc. 30 *Ch. compressum*. Other species, all fairly abundant, are *Leptocylindrus danicus*, *Sceletonema costatum*, *Nitzschia delicatissima*, *Rhizosolenia fragilissima* and *Rh. semis-*

[1] I am not quite certain as to the relative numbers of *Th. gravida* and *Th. Nordenskiöldii* at this station. There is, however, no doubt that the diatoms enumerated belong to one or other of these species.

pina and *Thalassiothrix nitzschioides*. *Paralia sulcata* is rather plentiful to the surface at both stations. *Peridiniales* on the other hand are on the decrease compared with station Sc. 28, but *Gymnodinium Lohmanni*, and *G. sp.* are still abundant, while *Protozoa* are scarce with the exception of the small species of *Laboea*.

At the next station, Sc. 34, the plankton is much poorer in quantity. *Thalassiosira gravida* is present, but no longer in great numbers. Of *Peridiniales, Exuviaella baltica* is abundant, but all others are scarce, and the records of *Protozoa* are very scanty.

Station Sc. 36 is one of those at which, according to the salinity records, the influence of the Atlantic water is strongly marked. The plankton also differs somewhat in character from that of the preceding stations and is much more plentiful than at station Sc. 34. The dominant diatom-species is here *Nitzschia delicatissima* along with which there are found relatively large numbers of *N. Closterium*. *Rhizosolenia semispina* is also abundant and *Rh. fragilissima* and *Rh. faeroeensis* are present in considerable numbers. Other species occurring rather abundantly are *Lauderia borealis, Thalassiosira gravida*, but in much smaller numbers than at stations Sc. 30 and Sc. 32, *Chaetoceras debile* and *Ch. decipiens*. Among the *Peridiniales, Gymnodinium Lohmanni* is the most plentiful, but various species of *Ceratium* and *Peridinium* are present though not in large numbers. In the surface collections the species of *Laboea* are very abundant, otherwise *Protozoa* are scarce.

At the next two stations, which are very similar in hydrographical respects, the salinity again shows a considerable decrease. The diatom-plankton of the one, however, differs distinctly from that of the other. At station Sc. 30a, where the species present are few, these are mostly rich in individuals, while at Sc. 38a the number of species recorded is much greater, but the total number of cells present is considerably less. The plankton of station Sc. 38 is dominated by *Chaetoceras debile*, which occurs in large numbers to a depth of 30 m. *Nitzschia seriata* is also abundant and to a less degree *Rhizosolenia semispina* and *Leptocylindrus danicus*. At station Sc. 38a, on the other hand, *Chaetoceras debile*, though still abundant, is exceeded in amount by *Nitzschia delicatissima*, along with which considerable numbers of both *N. seriata* and *N. Closterium* are found. *Rhizosolenia semispina* is again rather plentiful, as is also *Thalassiosira gravida* which is quite absent at station Sc. 38. At both stations *Peridiniales* and *Protozoa* are scarce, except for a slight development of the species of *Laboea* at station Sc. 38.

At station Sc. 38b the high salinity again indicates strong Atlantic influence. The plankton is here very abundant. Diatoms are plentiful, both as regards species and individuals, *Thalassiosira gravida* being once more the dominant species, while *Chaetoceras debile* also occurs in great numbers. Other abundant species are *Leptocylindrus danicus, Rhizosolenia semispina* and *Nitzschia seriata*, which is here more plentiful than *N. delicatissima*. *Peridiniales* are remarkable for the large number of species present, the most abundant being the small forms such as *Gymnodinium Lohmanni, G. sp., Exuviaella sp.* and *Glenodinium sp.*, though *Ceratia* and *Peridinia* are also represented. Among *Protozoa* the small species of *Laboea* and *Mesodinium* are very abundant.

The plankton of the two following stations is altogether different in character, a fact doubtless correlated with the presence of Norwegian coastal water in the upper layers. This water, the influence of which is very marked to a depth of 30 m., is remarkably poor in diatoms, only two species, *Leptocylindrus danicus* and *Rhizosolenia faeroeensis* being recorded from it, the former occurring, however, very abundantly. Below this depth the salinity gradually increases to the bottom, where the record is about the average for the preceding stations. In this water other species of diatoms occur, but all in quite small numbers. At station Sc. 38d the conditions are very similar, *Leptocylindrus danicus* being again very abundant to 30 m. and other species being very scarce. Among the *Peridiniales*, the *Ceratia*, as is characteristic of this water, are well developed, the most abundant species being *C. longipes*, as are also *Dinophysis acuminata* and *D.*

norvegica, and at station Sc. 38d *Diplopsalis lenticula*. These organisms occur for the most part only in the surface water to a depth of 20 m., while the small forms such as *Gymnodinium Lohmanni, Exuviaella sp.*, etc., found at the preceding stations, are here confined mostly to the deeper layers, further evidence that it is the same water as was found at the stations further west which persists here under the fresher surface layers. *Protozoa* are not very abundant, but are rather more so at station Sc. 38d than at Sc. 38c, *Laboea conica, L. sp.* and *Mesodinium* being the most plentiful.

Station Sc. 38e, situated to the north-west of the last, may be considered as the first station of the second section, the stations of which will be dealt with in order from east to west. The hydrographical conditions are similar to those at station Sc. 38c and Sc. 38d and the transition from the fresher coastal water to the more saline lower layers is here particularly well marked, there being a difference of 1.53 ‰ between the salinity records at 30 m. and at 50 m. Diatoms, including *Leptocylindrus danicus*, are particularly scarce, but even from the small records at our disposal, it is evident that two distinct floras are present, which occur above and below 50 m. respectively. The *Ceratia* are again well represented, but are confined to the surface waters, and other *Peridiniales* are only present in small numbers. *Protozoa*, too, are not abundant.

The two following stations exhibit no remarkable features. The salinity gradually rises as we pass westwards. Diatoms are very scarce, in fact nearly absent at station Sc. 38g the more westerly of the two. *Ceratia* are still fairly numerous, especially at the second of the stations, but the records obtained of other *Peridiniales* and of *Protozoa* are scanty.

At station Sc. 38h the influence of the continental coastal water has almost disappeared, the surface record for salinity being 35.08 ‰. The character of the plankton has again undergone a change. Here we have a fairly abundant diatom-flora, rather rich in species, but somewhat poor in individuals. *Thalassiosira gravida, Nitzschia delicatissima, Chaetoceras densum* and *Ch. debile* are the most abundant species. *Leptocylindrus danicus, Rhizosolenia semispina*, and *Rh. fragilissima* are present but not plentiful. *Peridiniales* are fairly numerous, still chiefly represented by *Ceratia*, though these are not so abundant as at some of the stations previously dealt with. *Protozoa* are rather plentiful, consisting for the most part of *Laboea conica* and *Mesodinium*.

At the next station, Sc. 38i, where the maximum salinity for the section is recorded, diatoms are rather abundant, but by no means so numerous as they were found to be at the stations where the highest salinities are recorded in the more southerly section. *Rhizosolenia faeroeensis* is the most abundant species, and along with it are found *Rh. fragilissima* and *Rh. semispina*. In addition *Chaetocerqs densum, Ch. debile* and *Thalassiosira bioculata* are rather plentiful. The species of *Peridiniales* which occur are many but the individuals are few. *Ceratia* are still present, but now only in small numbers. *Protozoa* are on the whole scarce, *Mesodinium* being the only species at all abundant.

Station Sc. 5a is the turning point from which the third section extends southwards. The salinity is high, but less so near the surface and the plankton of all kinds is conspicuously poor. Diatoms are most abundant at the bottom, and there a considerable proportion of the whole number consists of *Paralia sulcata*. Both *Peridiniales* and *Protozoa* are very scarce, more so indeed than at any other point in the three sections.

The diatom-floras found at the three following stations are remarkably similar. Practically the same species are present in each and the numerical variations from station to station are slight. The only species which occurs at all abundantly is *Rhizosolenia faeroeensis*, and it is most numerous at station Sc. 5. A considerable development of *Peridiniales* and particularly of *Ceratia* occurs at station Sc. 4 and Sc. 3, the two following stations, but at station Sc. 5 these organisms are almost entirely absent. The

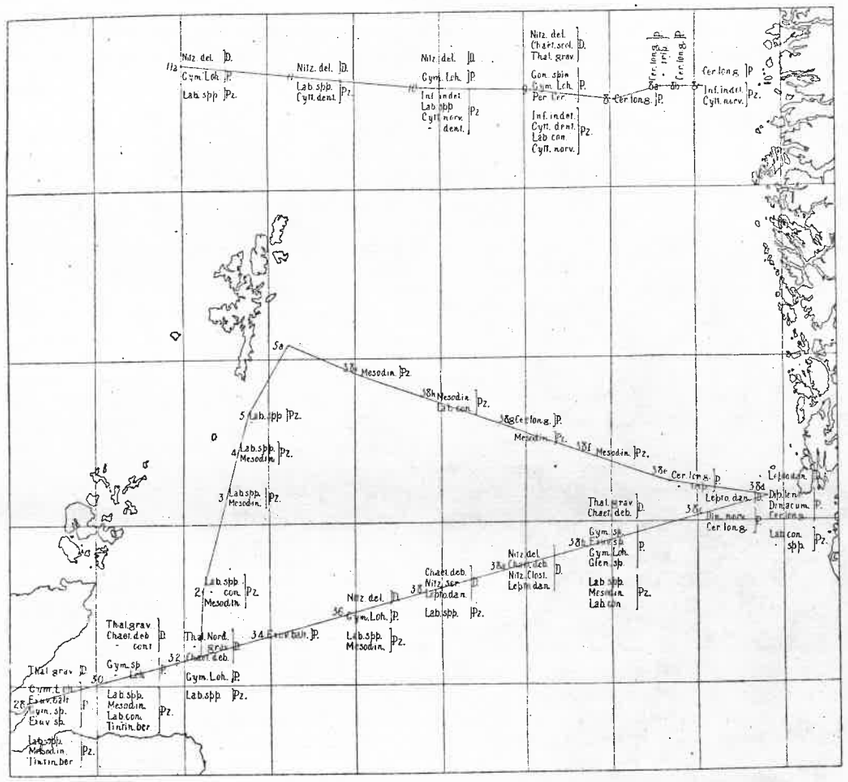


Diagram showing the distribution of the most abundant plankton-species at cerfain stations in the northern part of the North Sea in May and June 1912.

Diatoms are mentioned when an average of over 2000 per litre occurs at depths of from 0 m. to 50 m.
Peridiniales and *Protozoa* are mentioned when an average of over 200 per litre occurs at depths of from 0 m. to 30 m.
The organisms are noted in each case in order of frequency of occurrence.

List of Abbreviations.

D. = Diatoms.
P. = Peridiniales.
Pz. = Protozoa.

Chaet. cont. = Chaetoceras compressum.
— deb. = — debile.
— scol. = — scolopendra.
Lepto. dan. = Leptocylindrus danicus.
Nitz. Clost. = Nitzschia Closterium.
— del. = — delicatissima.
— ser. = — seriata.
Thal. grav. = Thalassiosira gravida.
Thal. Nord. = Thalassiosira Nordenskiöldii.
Cer. (C.) long. = Ceratium longipes.
— trip. = — tripos.
Din. acum. = Dinophysis acuminata.
— norv. = — norvegica.
Dip. lent. = Diploposalis lenticula.
Exuv. balt. = Exuviaella baltica.
— sp. = — species.
Glen. sp. = Glenodinium species.
Gon. spin. = Gonyaulax spinifera.
Gym. Loh. = Gymnodinium Lohmanni.
— sp. = — species.
Per. Cer. = Peridinium Cerasus.
Cytt. dent. = Cyttarocylis denticulata.
— norv. = — norvegica.
Lab. con. = Laboea conica
— spp. = — species.
Mesodin. = Mesodinium
Tintin. ber. = Tintinnopsis beroidea.
Inf. indet. = Infusoria indeterminata.

same applies to the species of *Laboea* and to *Mesodinium*, which are found at station Sc. 4 and Sc. 3 in great numbers.

At the two remaining stations, where the salinity has fallen somewhat owing to the influence of the fresher water from the Moray Firth, diatoms are very poorly represented; at station Sc. 26 indeed they are entirely absent above 50 m. and the highest records are those of *Paralia sulcata*. *Peridiniales* are very scarce at both stations. At station Sc. 2 *Protozoa*, chiefly the small *Laboea*-spp., are remarkably abundant, but at station Sc. 26 they are present only in small numbers.

Considered generally, the plankton of this group of stations consists of two kinds, one in which diatoms predominate and in which numbers of small forms of *Peridiniales* are also to be found, and another characterised by the pressence of the larger *Peridiniales*, chiefly the *Ceratia*. The first is exemplified with a few exceptions by the stations of the first section from the Moray Firth to station Sc. 38b, and it is at certain of these stations that the plankton is found to be most richly developed. The second is met with typically at the two most easterly stations of the same section and along the line of the second section from station Sc. 38e to Sc. 38h. Beyond this a further change occurs and the plankton at station Sc. 38i again resembles that of the western stations of the first section. The plankton of the third section is throughout so poor that it is difficult to characterise it. Diatoms are at all stations very scarce, but in the central part of the section, the *Ceratia* are again fairly numerous and the more southerly stations show a rich development of the small species of *Laboea*.

Some curious points with regard to the distribution of certain species of diatoms, especially along the line of the first section, may also be noted. *Thalassiosira gravida* is, as has been observed on previous occasions, very plentiful in the vicinity of the Moray Firth. At this particular season it is found in increasing numbers at stations Sc. 28, Sc. 30 and Sc. 32, with a distinct maximum at the last mentioned station. Thereafter a sudden falling-off takes place until at station Sc. 38 it is not recorded at all. It reappears at the next station and at the next, Sc. 38b, it occurs again in large numbers, but throughout the remainder of the sections the records of this species are quite inconsiderable. The occurrence in large numbers of *Leptocylindrus danicus* (with a maximum of 407,800 cells per l.) at stations Sc. 38 cand Sc. 38d may also be mentioned. At these stations the diatom-flora is otherwise particularly scanty. This diatom is present at several stations to the west of Sc. 38c, but is not specially abundant there, and is very scarce at Sc. 38e, the station immediately to the west of Sc. 38d, where the hydrographical conditions are almost exactly similar. Further west in the second section is disappears entirely from the flora.

Another remarkable feature is the occurrence at stations Sc. 2 and Sc. 26 of a plankton unusually poor in all respects save for the large numbers of the small species of *Laboea* found at station Sc. 2. Station Sc. 32, on the other hand, which lies almost midway between them, presents an abundant diatom-plankton and is also the station at which *Thalassiosira gravida* has its maximum. This species is practically absent at the two other stations. In addition it may be noted that at station Sc. 32 the species of *Laboea* are by no means plentiful.

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Table V. South-western part of the North Sea (Dutch investigations).

Station	°57' E.		H 4. 54°28' N. 2°16' E. 20/5					H 4 A. 55°10' N. 1°10' E. 20/5							
Depth (Metres)	40	48	0	5	10	15	18	0	5	10	15	20	30	40	50
Temperature (° C)	8.5	8.5	10.3	10.3	10.3	10.3	10.3	9.4	9.4	9.3	8.8	8.5	6.4	6.4	6.4
Salinity (‰)	34.70	34.70	34.76	34.76	34.78	34.78	34.78	34.76	[illegible]	[illegible]	34.76	34.78	34.81	34.81	34.81
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.															
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — Ralfsii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	..	20	..	20	..	..	..	..	..	..	..	..	..	..	40
4. Amphiprora alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — granulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — mobiliensis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — regia.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. Cerataulina Bergonii.	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..
15. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — boreale.	40	..	..	..	..	..	..	..	140	..	60	120	..	..	..
17. — compressum.	..	..	..	..	..	..	..	160	160	..	400	..	..	..	..
18. — convolutum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — debile.	..	..	..	..	..	..	..	..	..	..	..	120	140	..	..
21. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — decipiens.	..	..	..	..	..	..	..	..	..	..	80	..	..	..	..
23. — densum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. — Weissflogii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	..	..	..	..	..	..	..	20	..	..	40	60	..	60	40
30. Coscinodiscus anguste-lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31. — centralis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
32. — concinnus.	..	..	..	120	80	40	120	..	..	..	..	..	..	..	..
33. — excentricus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34. — marginatus.	20	..	..	..	..	..	..	..	..	..	20	..	..	20	40
35. — radiatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. — stellaris.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	40	..	60	..	60	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Guinardia flaccida.	..	..	..	..	..	..	..	..	..	..	40	40	..	60	160
43. Hyalodiscus stelliger.	..	80	..	..	..	..	..	..	..	..	..	..	..	..	..
44. Lauderia borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..
46. Navicula membranacea.	..	..	..	..	..	..	..	..	..	..	..	240	..	..	..
47. — distans var.	40	60	..	..	..	20	..	20	..	..	..	..	80	160	280
48. — sp.	20	40	..	..	20	..	..	..	..	..	..	..	..	80	40
49. Nitzschia Closterium.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — delicatissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
51. — seriata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. Paralia sulcata.	800	1400	..	..	..	140	160	..	20	..	..	100	1580	3060	4960
54. Pleurosigma affine.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
55. — angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — fasciola.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — sp.	300	300	20	..	20	..	..	..	..	..	20	..	20	..	..
58. Rhaphoneis sp.	20	..	..	..	..	..	..	..	..	..	..	20	..	..	..
59. Rhizosolenia alata.	..	..	..	..	..	..	..	20	..	..	300	100	40	40	80
60. — delicatula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. — faeroensis.	..	..	..	..	..	..	..	..	..	..	..	580	2840	2080	2480
62. — fragilissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — semispina.	..	..	..	..	..	..	..	20	60	..	..	160	..	..	120
64. — Shrubsolei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	100
65. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	..	60	..	..
66. — styliformis.	..	..	..	20	..	..	..	..	140	..	40	..	40	..	..
67. — sp.	..	..	..	..	..	..	..	20	20	..	40	..	..	..	..
68. Synedra sp.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	20
69. Thalassiosira decipiens.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. — gravida.	..	..	..	..	..	..	..	..	..	..	..	..	20	80	..
71. — sp.	..	..	..	..	..	..	..	..	..	20	..	20	..	..	..
72. Thalassiothrix nitzschioides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. Tropidoneis lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	20	..	..	..	..	20	20	..	..	..	..	..	..	..	..
Silicoflagellata.															
75. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
77. Ebria tripartita.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station	H 4 B. 55°10' N. 0°20' W. 20/5								H 4 C. 54°25' N. 0°40' E. 19/5							
Depth (Metres)	0	10	20	30	40	50	60	70	0	10	20	30	40	50	60	68
Temperature (° C)	8.9	8.5	8.4	8.2	7.9	6.3	6.3	6.3	8.5	8.8	8.8	8.7	8.7	8.7	8.7	8.7
Salinity (‰)	34.60	34.67	34.70	34.70	34.70	34.79	34.81	34.81	34.63	34.63	34.63	34.63	34.63	34.63	34.63	34.63
Ccm. examined	50	50	50	50	50	50	50	50	50	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)
Diatomaceae.																
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	60	60	..
2. — Ralfsii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	..	..	..	..	..	..	60	80	..	20	60	..	100	60	60	20
4. Amphiprora alata.	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
5. Asteromphalus atlanticus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — granulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — mobiliensis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — regia.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. Cerataulina Bergonii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — boreale.	..	..	..	..	..	..	..	..	60	..	40	20	..	..	..	..
17. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — convolutum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — criophilum.	..	..	..	..	..	..	..	..	..	..	20	60	20	..	..	..
20. — debile.	..	..	..	..	..	..	..	..	1580	900	600	2900	2600	1000	3400	6500
21. — — , sporæ.	..	..	..	..	..	..	..	..	12400	29900	32100	48700	70600	67500	93700	195100
22. — decipiens.	20	60	60	..	160	80	160	20	1580	1360	1180	2620	2100	1300	10800	11500
23. — densum.	..	..	..	..	20	..	..	..	60	80	120	80	140	..	100	400
24. — diadema.	..	..	..	..	..	..	..	..	140	..	..	..	..	..	600	1600
25. — — , sporæ.	..	..	..	..	..	..	..	..	920	2000	2600	2900	5200	2800	9800	13400
26. — teres.	..	..	..	..	..	..	..	..	140	40	140	200	300	300	700	700
27. — — , sporæ.	..	..	..	..	..	..	..	..	140	140	300	520	280	400	300	1300
28. — Weissflogii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	20	..	20	..	..	..	..	..	120	..	..	..	40	..	..	..
30. Coscinodiscus anguste-lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31. — centralis.	..	..	..	20	..	20	..	..	..	..	..	..	..	..	..	..
32. — concinnus.	..	..	..	..	..	..	..	..	..	20	20	20	..	40	..	40
33. — excentricus.	20	..	20	60	40	..	40	..	..	..	..	..	..	..	..	..
34. — marginatus.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	20	20
35. — radiatus.	..	..	..	..	..	..	..	..	..	20	40	40	80	100	20	60
36. — stellaris.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80
38. Diploneis sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
42. Guinardia flaccida.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger.	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
44. Lauderia borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. Navicula membranacea.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — distans var.	..	..	..	..	..	100	200	80	..	60	100	100	40	200	160	180
48. — sp.	..	..	..	..	..	60	260	80	..	20	20	100	20	40	100	80
49. Nitzschia Closterium.	..	..	..	..	..	..	..	..	80	..	60	60	60	20	20	100
50. — delicatissima.	100	..	..	..	..	..	..	..	..	100	100	40	20	..	..	40
51. — seriata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	20	..	20	..	..	..	..	..	..	..
53. Paralia sulcata.	..	..	..	200	..	4160	6720	5860	160	2360	2180	6560	3180	2760	3320	8000
54. Pleurosigma affine.	..	..	..	..	..	..	..	..	40	220	80	180	320	240	220	440
55. — angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — fasciola.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
57. — sp.	..	..	..	..	..	40	..	60	40	60	60	140	60	20	40	80
58. Rhaphoneis sp.	..	..	..	..	..	..	20	20	..	20	..	20	40	..	40	20
59. Rhizosolenia alata.	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — delicatula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. — faeroensis.	..	..	..	..	..	..	..	..	2280	2380	2100	2700	1840	2660	1160	3900
62. — fragilissima.	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..	..
63. — semispina.	..	..	..	..	..	..	10	..	70	..	..	..	..	..	..	..
64. — Shrubsolei.	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..
65. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	260
66. — styliformis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens.	..	..	..	..	..	40	..	20	20	40	..	40	..	..	..	..
70. — gravida.	320	..	..	..	20	..	..	80	120	..	120	120	100	40	140	60
71. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. Thalassiothrix nitzschioides.	..	..	20	..	..	80	200	..	240	820	1200	1260	1320	300	900	1560
73. Tropidoneis lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.																
75. Dictyocha fibula.	..	..	..	..	..	..	20	..	..	..	20	..	..	..	20	..
76. Distephanus speculum.	20	..	..	..	..	..	..	..	20	..	20	40	..	..	60	100
77. Ebria tripartita.	..	..	..	..	..	20	..	..	40	20	60	20	20	..	20	120

Station	H 5. 54°5' N. 1°28' E. 19/5							H. 6. 53°43' N. 0°32' E. 19/5				H 7. 53°7' N. 1°10' E. 19/5		
Depth (Metres)	0	10	20	30	40	50	60	0	10	20	25	0	10	20
Temperature (° C)	8.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.2	10.2	10.2
Salinity (‰)	34.70	34.70	34.72	34.72	34.70	34.72	34.70	34.45	34.45	34.45	34.45	33.95	33.95	33.95
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.														
1. Actinocyclus Ehrenbergii.	..	40	40	20	40	40	20	..	..	..	..	..	..	..
2. — Ralfsii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	40	..	..	20	..	40	40	220	120	140	160	..	100	140
4. Amphiprora alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita.	..	..	..	..	..	..	..	140	100	60	100	40	60	20
9. — granulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — mobiliensis.	..	..	..	..	..	..	..	..	..	..	..	20	40	80
11. — regia.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis.	..	..	..	..	..	..	..	..	..	..	..	40	..	..
14. Cerataulina Bergonii.	..	..	60	80	200	40	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum.	..	..	80	..	20	..	..	..	..	..	..	..	..	..
16. — boreale.	..	..	100	..	180	240	200	..	..	40	..	..	..	..
17. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — convolutum.	..	..	..	..	..	..	..	..	..	..	..	..	..	20
19. — criophilum.	..	..	..	..	..	20	..	..	..	..	..	..	..	..
20. — debile.	..	..	..	..	..	40	..	..	..	20	..	260	380	420
21. — — , sporæ.	..	..	40	40	40	80	160	..	..	..	..	..	..	120
22. — decipiens.	..	20	20	..	20	20	80	40	..	100	..	60	40	..
23. — densum.	120	460	140	380	260	360	160	..	..	..	..	..	..	..
24. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	20
28. — Weissflogii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	..	..	..	..	20	60	20	..	..	..	..	..	..	20
30. Coscinodiscus anguste-lineatus.	..	20	40	..	..	..	20	..	..	20	20	..	..	40
31. — centralis.	..	..	40	..	..	..	..	..	..	..	..	..	..	..
32. — concinnus.	..	20	20	20	40	20	20	..	..	..	..	..	..	..
33. — excentricus.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
34. — marginatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. — radiatus.	..	20	40	..	80	80	200	100	60	120	40	20	..	40
36. — stellaris.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
37. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	60	140	160
40. Eucampia zoodiacus.	..	..	..	..	..	340	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	900	480	460	420	1240	4680	3700
42. Guinardia flaccida.	..	600	500	1560	440	620	520	..	..	..	..	..	..	..
43. Hyalodiscus stelliger.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
44. Lauderia borealis.	140	880	1920	1560	1580	2180	1380	..	..	..	..	..	..	..
45. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. Navicula membranacea.	..	..	..	..	..	40	..	..	..	..	..	..	..	..
47. — distans var.	..	20	40	20	40	80	40	60	100	40	80	100	40	280
48. — sp.	..	..	..	20	20	..	..	60	60	120	60	220	140	260
49. Nitzschia Closterium.	..	..	40	..	60	20	..	80	60	480	340	1180	2920	1760
50. — delicatissima.	..	20	120	..	200	260	60	..	..	..	..	20	20	120
51. — seriata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. — sp.	..	40	..	20	20	40	..	..	20	..	40	80	20	..
53. Paralia sulcata.	100	3040	4200	2340	2540	3540	2560	480	340	700	1880	1220	1120	2180
54. Pleurosigma affine.	40	120	80	80	200	200	200	..	20	..	..	20	..	..
55. — angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — fasciola.	..	..	..	..	..	..	..	..	20	20	..	80	120	280
57. — sp.	..	60	60	40	..	40	40	100	100	40	20	280	580	120
58. Rhaphoneis sp.	..	..	..	..	..	..	20	20	20	..	120	..	20	40
59. Rhizosolenia alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — delicatula.	..	..	40	..	80	..	..	..	..	..	..	..	..	..
61. — faeroensis.	..	80	260	240	680	380	200	..	..	..	..	..	..	..
62. — fragilissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — semispina.	..	..	..	..	..	..	..	..	..	..	..	..	..	30
64. — Shrubsolei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
65. — Stolterfothii.	460	3520	6140	6680	5340	8360	7200	..	..	..	..	..	..	..
66. — styliformis.	10	30	..	160	10	20	20	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens.	..	..	..	..	20	..	..	..	..	..	..	..	..	..
70. — gravida.	..	20	80	80	40	260	180	80	80	80	200	2020	1700	1760
71. — sp.	..	..	..	..	..	..	..	60	60	160	160	1720	2080	1860
72. Thalassiothrix nitzschioides.	..	40	60	..	100	100	40	1330	1000	2200	2240	640	1580	1900
73. Tropidoneis lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	20	40	..	..	..	..	..	..	..	..	60	..	20	..
Silicoflagellata.														
75. Dictyocha fibula.	..	..	..	20	..	..	20	..	..	..	..	..	..	..
76. Distephanus speculum.	..	20	..	..	20	..	40	..	20	80	60	..	20	..
77. Ebria tripartita.	..	..	..	..	..	..	..	..	..	20	..	..	..	..

Station	H 8. 52°40' N. 2°28' E. 18/5					H 8 A. 52°30' N. 3°0' E. 18/5					H 9. 52°15' N. 3°28' E. 18/5			
Depth (Metres)	0	10	20	30	45	0	10	20	30	35	0	10	20	30
Temperature (° C)	9.5	9.5	9.5	9.5	9.5	10.6	10.6	10.6	10.6	10.6	10.9	10.9	10.9	10.9
Salinity (‰)	34.22	34.23	34.23	34.22	34.23	35.08	35.07	35.08	35.07	35.07	34.36	34.36	34.36	34.36
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.														
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	20	40	..	..	..	..	..
2. — Ralfsii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	140	20	40	60	140	..	40	..	20	..	20	..	..	20
4. Amphiprora alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus.	..	..	..	..	40	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita.	..	..	..	..	20	..	..	..	..	..	..	..	20	..
9. — granulata.	..	..	..	..	..	..	..	..	..	..	..	..	40	..
10. — mobiliensis.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
11. — regia.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis.	..	140	..	220	400	..	..	140	..	..	..	..	..	..
14. Cerataulina Bergonii.	..	..	20	..	..	..	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — convolutum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — debile.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — decipiens.	60	..	..	..	..	..	..	..	..	..	40	40	..	20
23. — densum.	20	..	..	..	40	..	..	..	..	..	..	..	..	..
24. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. — — , sporæ.	..	..	..	..	..	..	..	..	..	..	..	60	..	..
28. — Weissflogii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	..	..	..	..	60	..	..	..	..	..	..	..	..	..
30. Coscinodiscus anguste-lineatus.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
31. — centralis.	..	..	..	..	..	..	..	..	20	..	..	..	..	..
32. — concinnus.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
33. — excentricus.	..	40	..	..	20	..	..	..	..	..	..	40	20	..
34. — marginatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. — radiatus.	40	80	60	100	240	..	40	60	20	..	..	60	60	20
36. — stellaris.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	20	..	..	60	..	..	..
39. Ditylium Brightwellii.	20	..	40	..	40	..	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Fragilaria sp.	760	..	..	280	1200	..	..	160	..	..	880	160	..	..
42. Guinardia flaccida.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger.	20	..	..	..	..	..	..	..	..	..	..	20	..	..
44. Lauderia borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. Navicula membranacea.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — distans var.	20	20	20	20	20	..	..	..	20	..	..	20	..	..
48. — sp.	80	..	60	100	320	60	80	160	80	160	100	460	320	20
49. Nitzschia Closterium.	20	..	..	180	240	..	..	..	40	40	40	80	..	..
50. — delicatissima.	80	..	60	540	320	..	..	..	..	..	..	..	..	..
51. — seriata.	..	..	..	..	40	..	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	..	..	80	80	2300	3760	+	+
53. Paralia sulcata.	3440	3100	140	4800	3580	3720	4000	2020	7060	4840	3500	6360	5220	7180
54. Pleurosigma affine.	80	..	80	60	..	120	240	160	260	120	520	1060	1360	1120
55. — angulatum.	40	60	..	..	20	80	60	100	20	20	200	..	..	..
56. — fasciola.	20	..	..	60	40	..	..	..	..	..	..	..	..	..
57. — sp.	..	..	..	..	..	60	60	80	140	440	720	1780	700	940
58. Rhaphoneis sp.	100	..	..	..	20	20	..	20	20	80	100	240	200	80
59. Rhizosolenia alata.	..	..	..	10	..	..	..	..	..	..	..	..	..	10
60. — delicatula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. — faeroensis.	40	..	..	..	..	..	..	..	..	..	..	..	..	..
62. — fragilissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — semispina.	..	..	..	..	30	..	..	..	..	..	..	..	..	..
64. — Shrubsolei.	40	..	..	..	..	..	..	..	..	..	..	..	..	..
65. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	210	480	90	150
66. — styliformis.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	60	..	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens.	60	..	20	80	160	..	20	20	120	60	320	800	480	560
70. — gravida.	540	180	160	460	480	80	40	40	20	60	..	..	60	60
71. — sp.	260	320	40	820	820	40	300	160	420	200	..	..	..	..
72. Thalassiothrix nitzschioides.	240	..	60	300	860	..	..	..	40	60	60	260	100	100
73. Tropidoneis lepidoptera.	..	..	..	..	..	..	..	..	..	..	20	40	20	20
74. Diatomaceae indeterm.	20	60	..	100	60	..	..	..	..	..	60	60	..	..
Silicoflagellata.														
75. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
77. Ebria tripartita.	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table V. South-western part of the North Sea.

Station	H 1. 53°14' N. 4°15' E. 21/5				H 2. 53°44' N. 3°28' E. 21/5				
Depth (Metres)	0	10	15	26	0	10	20	30	37
Temperature (° C)	11.1	11.0	11.0	11.0	10.0	9.9	9.7	9.7	9.7
Salinity (‰)	34.96	34.94	34.94	34.94	34.45	34.45	34.45	34.47	34.49
Ccm. examined	50	50	50	50	50	50	50	50	50
Diatomaceae.									
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..
2. — Ralfsii	..	..	..	20	40	..	20	20	..
3. Actinoptychus undulatus	..	..	..	..	..	..	..	80	..
4. Amphiprora alata	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	120	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	60	..
8. Biddulphia aurita	..	..	..	..	..	..	..	..	..
9. — granulata	..	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..	..
11. — regia	..	..	20	..	..	..	..	..	..
12. — rhombus	..	..	..	40	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	..	..	..	180	..	..
14. Cerataulina Bergonii	..	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	..
16. — boreale	..	..	..	..	40	220	100	40	..
17. — compressum	..	..	..	..	..	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..	..
19. — criophilum	..	..	..	..	..	..	..	..	..
20. — debile	..	..	..	..	..	..	..	..	..
21. — —, sporæ	..	..	..	..	..	..	..	..	..
22. — decipiens	..	..	..	..	..	..	..	..	..
23. — densum	..	..	..	..	..	..	..	..	..
24. — diadema	..	..	..	..	..	..	..	..	..
25. — —, sporæ	..	..	..	..	..	..	..	..	..
26. — teres	..	..	..	..	..	..	..	..	..
27. — —, sporæ	..	..	..	..	..	..	..	..	..
28. — Weissflogii	..	..	..	80	..	..	..	..	..
29. — sp.	..	..	..	..	..	..	..	..	..
30. Coscinodiscus anguste-lineatus	..	..	..	..	..	..	..	..	..
31. — centralis	..	40	20	20	..	..	..	..	..
32. — concinnus	..	..	..	..	..	..	..	..	..
33. — excentricus	..	20	..	20	..	..	..	..	20
34. — marginatus	..	40	20	..	..	..	..	40	20
35. — radiatus	..	..	..	..	..	..	..	..	..
36. — stellaris	..	..	..	..	..	..	..	..	..
37. — subtilis	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus	..	..	..	..	..	..	..	120	..
41. Fragilaria sp.	100	160	740	820	..	..	..	..	..
42. Guinardia flaccida	..	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger	20	20	..	40	..	..	..	20	40
44. Lauderia borealis	..	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	..	..	..	..	..
46. Navicula membranacea	..	..	..	..	..	..	..	..	..
47. — distans var.	..	20	..	..	..	20	..	60	20
48. — sp.	40	40	80	100	..	..	..	20	60
49. Nitzschia Closterium	..	..	..	..	..	..	..	..	..
50. — delicatissima	..	..	..	..	..	..	..	..	..
51. — seriata	..	..	..	..	..	..	..	..	..
52. — sp.	+	c	c	c	..	+	c	cc	cc
53. Paralia sulcata	1120	1720	1400	1620	140	720	2380	4460	3360
54. Pleurosigma affine	40	240	180	260	..	..	80	260	300
55. — angulatum	..	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	..	..	..	..
57. — sp.	..	140	260	120	20	..	40	40	120
58. Rhaphoneis sp.	..	..	..	20	..	..	..	..	..
59. Rhizosolenia alata	..	..	..	..	..	..	..	..	..
60. — delicatula	..	..	..	..	..	..	..	..	..
61. — faeroeensis	..	..	..	..	..	..	..	..	..
62. — fragilissima	..	..	..	..	..	..	..	..	..
63. — semispina	..	..	..	..	10	80	20	100	20
64. — Shrubsolei	..	..	..	20	40	40	..	20	..
65. — Stolterfothii	..	..	..	..	..	..	20	..	..
66. — styliformis	..	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	20	..	20	..	..	..
69. Thalassiosira decipiens	..	40	..	100	..	..	..	..	60
70. — gravida	..	100	80	140	..	..	60	160	280
71. — sp.	..	..	..	..	..	..	..	..	..
72. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	..	..
73. Tropidoneis lepidoptera	..	60	80	..	..	..	..	..	..
74. Diatomaceae indeterm.	..	60	..	160	..	..	..	..	..
Silicoflagellata.									
75. Dictyocha fibula	..	..	..	..	..	..	..	..	..
76. Distephanus speculum	..	..	..	..	..	..	..	..	..
77. Ebria tripartita	..	..	..	..	..	..	..	..	..

Station	H 3. 54°5' N. 2°57' E. 21/5						H 4. 54°28' N. 2°16' E. 20/5				
Depth (Metres)	0	10	20	30	40	48	0	5	10	15	18
Temperature (° C)	9.6	8.8	8.5	8.5	8.5	8.5	10.3	10.3	10.3	10.3	10.3
Salinity (‰)	34.70	34.70	34.70	34.70	34.70	34.70	34.76	34.76	34.78	34.78	34.78
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.											
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..
2. — Ralfsii	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	20	..	..	20	..	20	..	..	..
4. Amphiprora alata	..	..	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita	..	..	..	..	..	..	..	..	..	..	..
9. — granulata	..	..	..	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..	..	..	..
11. — regia	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	120	..	..	..	..	..	..	..
14. Cerataulina Bergonii	..	..	..	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	..	..	..
16. — boreale	..	80	20	..	40	..	..	..	..	..	..
17. — compressum	..	..	..	..	..	..	..	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..	..	..	..
19. — criophilum	..	..	..	..	..	..	..	..	..	..	..
20. — debile	..	..	..	..	..	..	..	..	..	..	..
21. — —, sporæ	..	..	..	..	..	..	..	..	..	..	..
22. — decipiens	..	..	..	..	..	..	..	..	..	..	..
23. — densum	..	..	..	..	..	..	..	..	..	..	..
24. — diadema	..	..	..	..	..	..	..	..	..	..	..
25. — —, sporæ	..	..	..	..	..	..	..	..	..	..	..
26. — teres	..	..	..	..	..	..	..	..	..	..	..
27. — —, sporæ	..	..	..	..	..	..	..	..	..	..	..
28. — Weissflogii	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	..	..	..	..	..	..	..	..	..	..	..
30. Coscinodiscus anguste-lineatus	..	..	..	..	..	..	..	..	..	..	..
31. — centralis	..	..	..	..	..	..	..	..	..	..	..
32. — concinnus	..	..	20	..	..	..	..	120	80	40	120
33. — excentricus	..	..	..	..	..	..	..	..	..	..	..
34. — marginatus	..	..	..	..	20	..	..	..	..	..	..
35. — radiatus	..	..	..	..	..	..	..	..	..	..	..
36. — stellaris	..	..	..	..	..	..	..	..	..	..	..
37. — subtilis	..	..	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	40	..	60	..	60
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus	..	..	..	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	..	..	..	..
42. Guinardia flaccida	..	..	..	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger	..	..	..	20	..	80	..	..	..	..	..
44. Lauderia borealis	..	..	..	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	..	..	..	..	..	..	..
46. Navicula membranacea	..	..	..	..	..	..	..	..	..	..	..
47. — distans var.	..	..	40	60	40	60	..	..	..	20	..
48. — sp.	..	..	..	20	20	40	..	..	20	..	..
49. Nitzschia Closterium	..	..	..	..	..	..	..	..	..	..	..
50. — delicatissima	..	..	..	..	..	..	..	..	..	..	..
51. — seriata	..	..	..	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	..	..	..	..	..
53. Paralia sulcata	60	720	1160	960	800	1400	..	..	..	140	160
54. Pleurosigma affine	..	..	..	..	..	..	..	..	..	..	..
55. — angulatum	..	..	..	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	..	..	..	..	..	..
57. — sp.	..	..	400	420	300	300	20	..	20	..	..
58. Rhaphoneis sp.	..	..	20	20	20	..	..	..	..	..	..
59. Rhizosolenia alata	..	..	..	..	..	..	..	..	..	..	..
60. — delicatula	..	..	..	..	..	..	..	..	..	..	..
61. — faeroeensis	..	..	..	..	..	..	..	..	..	..	..
62. — fragilissima	..	..	..	..	..	..	..	..	..	..	..
63. — semispina	..	..	..	..	..	..	..	..	..	..	..
64. — Shrubsolei	..	..	..	..	..	..	..	..	..	..	..
65. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..
66. — styliformis	..	..	..	..	..	..	..	20	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	20	20	..	..	..	..	..	..
69. Thalassiosira decipiens	..	..	40	..	20	..	..	..	..	..	..
70. — gravida	..	..	40	..	..	..	..	..	..	..	..
71. — sp.	..	..	40	..	..	..	..	..	..	..	..
72. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	..	..	..	..
73. Tropidoneis lepidoptera	..	..	..	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	..	..	..	..	20	..	..	..	..	20	20
Silicoflagellata.											
75. Dictyocha fibula	..	..	..	..	..	..	..	..	..	..	..
76. Distephanus speculum	..	..	..	..	..	..	..	..	..	..	..
77. Ebria tripartita	..	100	..	..	..	..	..	..	..	..	..

Table V. South-western part of the North Sea (Dutch investigations).

Station	H 4 A. 55°10' N. 1°10' E. 20/5							
Depth (Metres)	0	5	10	15	20	30	40	50
Temperature (° C)	9.4	9.4	9.3	8.8	8.5	6.4	6.4	6.4
Salinity (‰)	34.70	[illegible]	34.70	34.76	34.78	34.81	34.81	34.81
Ccm. examined	50	50	50	50	50	50	50	50
Diatomaceae.								
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..
2. — Ralfsii	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	..	..	..	..	..	40
4. Amphiprora alata	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	..
8. Biddulphia aurita	..	..	..	..	..	..	..	..
9. — granulata	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..
11. — regia	..	..	..	..	..	..	..	..
12. — rhombus	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	..	..	..	..	..
14. Cerataulina Bergonii	..	..	..	..	40	..	..	..
15. Chaetoceras atlanticum	..	..	..	..	..	..	..	..
16. — boreale	..	140	..	60	120	..	..	..
17. — compressum	160	160	..	400	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..
19. — criophilum	..	..	..	..	..	..	..	..
20. — debile	..	..	..	..	120	140	..	..
21. — —, sporæ	..	..	..	..	..	..	..	..
22. — decipiens	..	..	..	80	..	..	..	..
23. — densum	..	..	..	..	..	..	..	..
24. — diadema	..	..	..	..	..	..	..	..
25. — —, sporæ	..	..	..	..	..	..	..	..
26. — teres	..	..	..	..	..	..	..	..
27. — —, sporæ	..	..	..	..	..	..	..	..
28. — Weissflogii	..	..	..	..	..	..	..	..
29. — sp.	20	..	..	40	60	..	60	40
30. Coscinodiscus anguste-lineatus	..	..	..	..	..	..	..	..
31. — centralis	..	..	..	..	..	..	..	20
32. — concinnus	..	..	..	..	..	..	..	..
33. — excentricus	..	..	..	..	..	..	..	..
34. — marginatus	..	..	..	20	..	..	20	40
35. — radiatus	..	..	..	..	..	..	..	..
36. — stellaris	..	..	..	..	..	..	..	..
37. — subtilis	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	..
42. Guinardia flaccida	..	..	..	40	40	..	60	160
43. Hyalodiscus stelliger	..	..	..	..	..	..	..	..
44. Lauderia borealis	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	40	..	..	..
46. Navicula membranacea	..	..	..	..	240	..	..	..
47. — distans var.	20	..	..	..	..	80	160	280
48. — sp.	..	..	..	..	..	..	80	40
49. Nitzschia Closterium	..	..	..	..	..	..	..	..
50. — delicatissima	..	..	..	..	..	..	..	..
51. — seriata	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	..	..
53. Paralia sulcata	..	20	..	..	100	1580	3060	4960
54. Pleurosigma affine	..	..	..	..	..	..	..	..
55. — angulatum	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	..	..	..
57. — sp.	..	..	..	20	..	20	..	..
58. Rhaphoneis sp.	..	..	..	..	20	..	..	..
59. Rhizosolenia alata	20	..	..	300	100	40	40	80
60. — delicatula	..	..	..	..	..	..	..	..
61. — faeroeensis	..	..	..	..	580	2840	2080	2480
62. — fragilissima	..	..	..	..	..	..	..	..
63. — semispina	20	60	..	..	160	..	..	120
64. — Shrubsolei	..	..	..	..	..	..	..	100
65. — Stolterfothii	..	..	..	..	..	60	..	..
66. — styliformis	..	110	..	40	..	40	..	..
67. — sp.	20	20	..	40	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	20
69. Thalassiosira decipiens	..	..	..	..	..	..	..	..
70. — gravida	..	..	..	..	..	20	80	..
71. — sp.	..	..	20	..	20	..	..	..
72. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	..
73. Tropidoneis lepidoptera	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	20	..	..	..	..	..	..	..
Silicoflagellata.								
75. Dictyocha fibula	..	..	..	..	..	..	..	..
76. Distephanus speculum	..	..	..	20	..	..	..	..
77. Ebria tripartita	..	..	..	..	..	..	..	..

Station	H 4 B. 55°10' N. 0°20' W. 20/5							
Depth (Metres)	0	10	20	30	40	50	60	70
Temperature (° C)	8.9	8.5	8.4	8.2	7.9	6.3	6.3	6.3
Salinity (‰)	34.60	34.67	34.70	34.70	34.70	34.79	34.81	34.81
Ccm. examined	50	50	50	50	50	50	50	50
Diatomaceae.								
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..
2. — Ralfsii	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	..	..	..	..	60	80
4. Amphiprora alata	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	..
8. Biddulphia aurita	..	..	..	..	..	..	..	..
9. — granulata	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..
11. — regia	..	..	..	..	..	..	..	..
12. — rhombus	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	..	..	..	..	..
14. Cerataulina Bergonii	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum	..	..	..	..	..	..	..	..
16. — boreale	..	..	..	..	..	..	..	..
17. — compressum	..	..	..	..	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..
19. — criophilum	..	..	..	..	..	..	..	..
20. — debile	..	..	..	..	..	..	..	..
21. — —, sporæ	..	..	..	..	..	..	..	..
22. — decipiens	20	60	60	..	160	80	160	20
23. — densum	..	..	..	..	20	..	..	..
24. — diadema	..	..	..	..	..	..	..	..
25. — —, sporæ	..	..	..	..	..	..	..	..
26. — teres	..	..	..	..	..	..	..	..
27. — —, sporæ	..	..	..	..	..	..	..	..
28. — Weissflogii	..	..	..	..	..	..	..	..
29. — sp.	20	..	20	..	..	..	..	..
30. Coscinodiscus anguste-lineatus	..	..	..	20	..	20	..	..
31. — centralis	..	..	..	..	..	..	..	..
32. — concinnus	..	..	..	..	..	..	..	..
33. — excentricus	20	..	20	60	40	..	40	..
34. — marginatus	..	..	..	..	..	..	20	..
35. — radiatus	..	..	..	..	..	..	..	..
36. — stellaris	..	..	..	..	..	..	..	..
37. — subtilis	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	20
42. Guinardia flaccida	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger	..	..	..	..	..	..	..	20
44. Lauderia borealis	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	..	..	..	..
46. Navicula membranacea	..	..	..	..	..	..	..	..
47. — distans var.	..	..	..	..	..	100	200	80
48. — sp.	..	..	..	..	..	60	260	80
49. Nitzschia Closterium	..	..	..	..	..	..	..	..
50. — delicatissima	100	..	..	..	..	..	..	..
51. — seriata	..	..	..	..	..	..	..	..
52. — sp.	..	..	..	..	..	..	20	..
53. Paralia sulcata	..	..	..	200	..	4160	6720	5860
54. Pleurosigma affine	..	..	..	..	..	..	..	..
55. — angulatum	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	..	..	..
57. — sp.	..	..	..	..	..	40	..	60
58. Rhaphoneis sp.	..	..	..	..	..	..	20	20
59. Rhizosolenia alata	..	..	40	..	..	..	..	..
60. — delicatula	..	..	..	..	..	..	..	..
61. — faeroeensis	..	..	..	..	..	..	..	..
62. — fragilissima	..	..	..	..	..	..	..	..
63. — semispina	..	..	..	..	..	..	10	..
64. — Shrubsolei	..	..	..	..	..	..	..	..
65. — Stolterfothii	..	..	..	..	..	..	..	..
66. — styliformis	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens	..	..	..	..	..	40	..	20
70. — gravida	320	..	..	..	20	..	..	80
71. — sp.	..	..	..	..	..	..	..	..
72. Thalassiothrix nitzschioides	..	..	..	..	..	80	200	..
73. Tropidoneis lepidoptera	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	..	..	..	..	..	..	..	..
Silicoflagellata.								
75. Dictyocha fibula	..	..	..	..	..	..	20	..
76. Distephanus speculum	20	..	..	..	..	..	..	..
77. Ebria tripartita	..	..	..	..	..	20	..	..

Station	H 4 C. 54°25' N. 0°40' E. 19/5							
Depth (Metres)	0	10	20	30	40	50	60	68
Temperature (° C)	8.5	8.8	8.8	8.7	8.7	8.7	8.7	8.7
Salinity (‰)	34.63	34.63	34.63	34.63	34.63	34.63	34.63	34.63
Ccm. examined	50	50 (10)	50 (10)	50 (10)	50 (10)	50 (10)	50 (10)	50 (10)
Diatomaceae.								
1. Actinocyclus Ehrenbergii	..	..	..	..	..	60	60	..
2. — Ralfsii	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	20	60	..	100	60	60	20
4. Amphiprora alata	..	..	..	20	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	..
8. Biddulphia aurita	..	..	..	..	..	..	..	..
9. — granulata	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..
11. — regia	..	..	..	..	..	..	..	..
12. — rhombus	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	..	..	..	..	..
14. Cerataulina Bergonii	..	..	..	..	..	..	..	..
15. Chaetoceras atlanticum	..	..	..	..	..	..	..	..
16. — boreale	60	..	40	20	..	..	..	..
17. — compressum	..	..	..	..	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..
19. — criophilum	..	..	20	60	20	..	..	..
20. — debile	1580	900	600	2900	2600	1000	3400	6500
21. — —, sporæ	12400	29900	32100	48700	70600	67500	99700	195100
22. — decipiens	1580	1360	1180	2620	2100	1300	10800	11500
23. — densum	60	80	120	80	140	..	100	400
24. — diadema	140	..	..	..	..	..	600	1600
25. — —, sporæ	920	2000	2600	2900	5200	2800	9800	13400
26. — teres	140	40	140	200	300	300	700	700
27. — —, sporæ	140	140	300	520	280	400	300	1300
28. — Weissflogii	..	..	..	..	..	..	..	..
29. — sp.	120	..	..	..	40	..	..	..
30. Coscinodiscus anguste-lineatus	..	..	..	..	..	..	..	..
31. — centralis	..	..	..	..	..	..	..	..
32. — concinnus	..	20	20	20	..	40	..	40
33. — excentricus	..	..	..	..	..	..	..	..
34. — marginatus	..	..	..	..	..	..	20	20
35. — radiatus	..	20	40	40	80	100	20	60
36. — stellaris	..	..	..	..	..	..	..	..
37. — subtilis	..	..	..	..	..	..	..	80
38. Diploneis sp.	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..
40. Eucampia zoodiacus	..	..	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	..
42. Guinardia flaccida	..	..	..	..	..	..	..	..
43. Hyalodiscus stelliger	..	..	..	..	..	..	..	..
44. Lauderia borealis	..	..	..	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	..	..	..	..
46. Navicula membranacea	..	..	..	..	..	..	..	..
47. — distans var.	..	60	100	100	40	200	160	180
48. — sp.	..	20	20	100	20	40	100	80
49. Nitzschia Closterium	80	..	60	60	60	20	20	100
50. — delicatissima	..	100	100	40	20	..	..	40
51. — seriata	..	..	..	..	..	..	..	..
52. — sp.	20	..	..	..	..	..	..	..
53. Paralia sulcata	160	2360	2180	6560	3180	2760	3320	8000
54. Pleurosigma affine	40	220	80	180	320	240	220	440
55. — angulatum	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	20	..	..
57. — sp.	40	60	60	140	60	20	40	80
58. Rhaphoneis sp.	..	20	..	20	40	..	40	20
59. Rhizosolenia alata	..	..	..	..	..	..	..	..
60. — delicatula	..	..	..	..	..	..	..	..
61. — faeroeensis	2280	2380	2100	2700	1840	2660	1160	3900
62. — fragilissima	80	..	..	..	..	..	..	..
63. — semispina	70	..	..	..	..	..	..	..
64. — Shrubsolei	..	40	..	..	..	..	..	..
65. — Stolterfothii	..	..	..	..	..	..	..	260
66. — styliformis	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens	20	40	..	40	..	..	..	..
70. — gravida	120	..	120	120	100	40	140	60
71. — sp.	..	..	..	..	..	..	..	..
72. Thalassiothrix nitzschioides	240	820	1200	1260	1320	300	900	1560
73. Tropidoneis lepidoptera	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	..	..	..	..	..	..	..	..
Silicoflagellata.								
75. Dictyocha fibula	..	..	20	..	..	..	20	..
76. Distephanus speculum	20	..	20	40	..	..	60	100
77. Ebria tripartita	40	20	60	20	20	..	20	120

Station	H 5. 54°5' N. 1°28' E. 19/5							H. 6. 53°43' N. 0°32' E. 19/5				H 7.
Depth (Metres)	0	10	20	30	40	50	60	0	10	20	25	0
Temperature (° C)	8.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.2
Salinity (‰)	34.70	34.70	34.72	34.72	34.70	34.72	34.70	34.45	34.45	34.45	34.45	33.95
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.												
1. Actinocyclus Ehrenbergii	..	40	40	20	40	40	20	..	..	..	..	..
2. — Ralfsii	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	40	..	..	20	..	40	40	220	120	140	160	..
4. Amphiprora alata	..	..	..	..	..	..	..	..	..	..	..	..
5. Asteromphalus atlanticus	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacillaria paradoxa	..	..	..	..	..	..	..	..	..	..	..	..
7. Bellerochea malleus	..	..	..	..	..	..	..	..	..	..	..	..
8. Biddulphia aurita	..	..	..	..	..	..	..	140	100	60	100	40
9. — granulata	..	..	..	..	..	..	..	..	..	..	..	..
10. — mobiliensis	..	..	..	..	..	..	..	..	..	..	..	20
11. — regia	..	..	..	..	..	..	..	..	..	..	..	..
12. — rhombus	..	..	..	..	..	..	..	..	..	..	..	..
13. Campylosira cymbelliformis	..	..	..	..	..	..	..	..	..	..	..	40
14. Cerataulina Bergonii	..	..	60	80	200	40	..	..	..	..	..	..
15. Chaetoceras atlanticum	..	..	80	..	20	..	..	..	..	..	..	..
16. — boreale	..	..	100	..	180	240	200	..	..	40	..	..
17. — compressum	..	..	..	..	..	..	..	..	..	..	..	..
18. — convolutum	..	..	..	..	..	..	..	..	..	..	..	..
19. — criophilum	..	..	..	..	..	20	..	..	..	..	..	..
20. — debile	..	..	..	..	..	40	..	..	..	20	..	260
21. — —, sporæ	..	..	40	40	40	80	160	..	..	..	..	..
22. — decipiens	..	20	20	..	20	20	80	40	..	100	..	60
23. — densum	120	460	140	380	260	360	160	..	..	..	..	..
24. — diadema	..	..	..	..	..	..	..	..	..	..	..	..
25. — —, sporæ	..	..	..	..	..	..	..	..	..	..	..	..
26. — teres	..	..	..	..	..	..	..	..	..	..	..	..
27. — —, sporæ	..	..	..	..	..	..	..	..	..	..	..	..
28. — Weissflogii	..	..	..	..	..	..	..	..	..	..	..	..
29. — sp.	..	..	..	..	20	60	20	..	..	..	..	..
30. Coscinodiscus anguste-lineatus	..	20	40	..	..	..	20	..	..	20	20	..
31. — centralis	..	..	40	..	..	..	..	..	..	..	..	..
32. — concinnus	..	20	20	20	40	20	20	..	..	..	..	..
33. — excentricus	..	..	..	..	..	..	..	..	..	..	..	20
34. — marginatus	..	..	..	..	..	..	..	..	..	..	..	..
35. — radiatus	..	20	40	..	80	80	200	100	60	120	40	20
36. — stellaris	..	..	..	..	..	..	..	..	..	..	..	20
37. — subtilis	..	..	..	..	..	..	..	..	..	..	..	..
38. Diploneis sp.	..	..	..	..	..	..	..	..	..	..	..	..
39. Ditylium Brightwellii	..	..	..	..	..	..	..	..	..	..	..	60
40. Eucampia zoodiacus	..	..	..	..	..	340	..	..	..	..	..	..
41. Fragilaria sp.	..	..	..	..	..	..	..	900	480	460	420	1240
42. Guinardia flaccida	..	600	500	1560	440	620	520	..	..	..	..	..
43. Hyalodiscus stelliger	..	..	..	..	..	..	..	..	..	..	..	..
44. Lauderia borealis	140	880	1920	1560	1580	2180	1380	..	..	..	..	..
45. Leptocylindrus danicus	..	..	..	..	..	..	..	..	..	..	..	..
46. Navicula membranacea	..	..	..	..	..	40	..	..	..	..	..	..
47. — distans var.	..	20	40	20	40	80	40	60	100	40	80	100
48. — sp.	..	..	..	20	20	..	..	60	60	120	60	220
49. Nitzschia Closterium	..	..	40	..	60	20	..	80	60	480	340	1180
50. — delicatissima	..	20	120	..	200	260	60	..	..	..	..	20
51. — seriata	..	..	..	..	..	..	..	..	..	..	..	..
52. — sp.	..	40	..	20	20	40	..	..	20	..	40	80
53. Paralia sulcata	100	3040	4200	2340	2540	3540	2560	480	340	700	1880	1220
54. Pleurosigma affine	40	120	80	80	200	200	200	..	20	..	..	20
55. — angulatum	..	..	..	..	..	..	..	..	..	..	..	..
56. — fasciola	..	..	..	..	..	..	..	..	20	20	..	80
57. — sp.	..	60	60	40	..	40	40	100	100	40	20	280
58. Rhaphoneis sp.	..	..	..	..	..	..	20	20	20	..	120	..
59. Rhizosolenia alata	..	..	..	..	..	..	..	..	..	..	..	..
60. — delicatula	..	..	40	..	80	..	..	..	..	..	..	..
61. — faeroeensis	..	80	260	240	680	380	200	..	..	..	..	..
62. — fragilissima	..	..	..	..	..	..	..	..	..	..	..	..
63. — semispina	..	..	..	..	..	..	..	..	..	..	..	..
64. — Shrubsolei	..	..	..	..	..	..	..	..	..	..	..	..
65. — Stolterfothii	460	3520	6140	6680	5340	8360	7200	..	..	..	..	..
66. — styliformis	10	30	..	160	10	20	20	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..
68. Synedra sp.	..	..	..	..	..	..	..	..	..	..	..	..
69. Thalassiosira decipiens	..	..	..	..	20	..	..	..	..	..	..	..
70. — gravida	..	20	80	80	40	260	180	80	80	80	200	2020
71. — sp.	..	..	..	..	..	..	..	60	60	160	160	1720
72. Thalassiothrix nitzschioides	..	40	60	..	100	160	40	1330	1000	2200	2240	640
73. Tropidoneis lepidoptera	..	..	..	..	..	..	..	..	..	..	..	..
74. Diatomaceae indeterm.	20	40	..	..	..	..	..	..	..	..	60	..
Silicoflagellata.												
75. Dictyocha fibula	..	..	..	20	..	..	20	..	..	..	..	..
76. Distephanus speculum	..	20	..	..	20	..	40	..	20	80	60	..
77. Ebria tripartita	..	..	..	..	..	..	..	..	..	20	..	..

Table V. South-western part of the North Sea (Dutch investigations) (continued).

Table V. South-western part of the North Sea (continued).

Station	' N. 2°57' E. 21/5			H 4. 54°28' N. 2°16' E. 20/5					H 4 A. 55°10' N. 1°10' E. 20/5							
Depth (Metres).	30	40	48	0	5	10	15	18	0	5	10	15	20	30	40	50
Temperature (° C).	8.5	8.5	8.5	10.3	10.3	10.3	10.3	10.3	9.4	9.4	9.3	8.8	8.5	6.4	6.4	6.4
Salinity (‰).	34.70	34.70	34.70	34.76	34.76	34.78	34.78	34.78	34.70	34.70	34.70	34.76	34.78	34.81	34.81	34.81
Ccm. examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peridiniales.																
79. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. Ceratium arcticum.	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..
81. — bucephalum.	..	..	..	..	..	..	..	..	..	..	60	20	..	..	..	..
82. — furca.	..	..	..	..	..	..	..	20	80	260	200	60	..	40	20	..
83. — fusus.	..	..	..	..	..	..	..	..	..	..	..	120	20	20	..	..
84. — intermedium.	..	..	..	..	..	..	..	..	..	20	40	120	..	..	..	..
84. — lineatum.	..	..	..	..	..	..	..	..	60	80	80	20	..	..	..	..
86. — longipes.	..	20	..	..	20	20	..	20	520	340	300	40	20	20	..	20
87. — macroceros.	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..
88. — tripos.	..	20	..	..	..	..	20	..	200	220	300	180	20	20	..	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
90. Dinophysis acuminata.	20	..	..	20	80	20	40	20	..	..	20	..	20	20	..	..
91. — acuta.	..	..	..	..	..	..	..	..	20	60	20	40	20	..	100	..
92. — norvegica.	..	..	..	..	..	..	..	..	20	..	20	..	..	60	40	20
93. — rotundata.	..	..	..	..	20	..	..	..	..	20	60	20	20	40	..	..
94. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Exuviaella baltica.	20	40	40	140	160	..	40	20	180	580	..	..	..	..	..	..
97. — sp.	..	..	..	..	..	..	..	..	..	..	..	60	..	..	..	..
98. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — danicum.	..	..	20	..	20	..	20	..	40	120	40	..	..	..	..	..
100. — sp.	20	..	..	20	..	..	..	80	..	..	40	60	20	..	..	20
101. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	20	40	40	..	..	..	..
102. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni.	..	..	..	..	..	..	..	..	..	120	..	220	20	20	..	..
105. — sp.	20	..	..	40	40	60	100	60	120	..	..	..	40	..	20	..
106. Peridinium achromaticum.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
107. — conicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
108. — crassipes.	..	..	..	..	20	..	..	..	20	..	..	..	..	..	..	..
109. — depressum.	..	..	..	..	..	..	..	..	60	40	80	20	..	..	..	..
110. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
111. — pallidum.	20	..	..	40	20	..	20	100	..	..	..	..	..	..	..	..
112. — parallelum.	..	..	..	..	..	..	..	..	40	40	..	..	..	..	..	..
113. — pellucidum.	..	..	..	..	..	120	20	..	..	..	..	..	..	20	..	..
114. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii.	..	..	..	20	..	..	20	..	..	..	..	20	..	..	20	..
116. Peridinia cetera.	..	..	..	40	40	..	20	..	60	..	20	..	60	20	..	..
117. Pouchetia nigra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
118. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. Prorocentrum micans.	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
120. Protoceratum reticulatum.	..	..	..	..	..	..	..	..	..	..	20	40	..	..	..	..
121. Peridiniales indeterm.	..	..	..	..	..	..	..	..	..	140	160	220	280	20	60	80
Flagellata.																
122. Phaeocystis globosa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Pollen.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Pollen of firs.	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
Protozoa.																
125. Laboea conica.	..	20	..	..	100	..	20	20	..	60	40	180	..	..	..	..
126. — strobila.	40	..	20	120	100	80	120	60	40	40	..	1800	420	..	20	20
127. Laboeae ceterae.	400	500	520	6120	7240	3320	4680	3960	400	760	280	800	260	60	100	20
128. Mesodinium.	80	20	20	..	20	..	20	120	20	120	20	340	40	20	..	..
129. Rhynchomonas marina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea.	40	160	160	420	620	420	640	740	..	..	..	..	..	40	20	100
131. — cyathus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri.	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
134. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	20	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..
Crustacea.																
136. Copepoda indeterm.	..	..	..	..	..	..	..	..	..	..	40	40	40	..	..	..
137. Metanauplii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii.	..	..	40	40	..	20	20	..	40	20	40	..	80	..	..	..
139. Crustacea cetera.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
140. Fritillaria borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Larvae indeterm.	..	..	..	..	..	..	..	40	..	..	..	40	20	..	..	..
144. Larvae of Gastropoda.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova.	60	20	20	20	..	..	20	..	..	..	100	100	80	..	20	40
146. Round cells (Diam. 10—40 μ).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
147. Indeterminable cells.	120	180	40	80	260	220	220	200	100	220	..	280	180	100	220	220

Station	H 4 B. 55°10' N. 0°20' W. 20/5								H 4 C. 54°25' N. 0°40' E. 19/5							
Depth (Metres).	0	10	20	30	40	50	60	70	0	10	20	30	40	50	60	68
Temperature (° C).	8.9	8.5	8.4	8.2	7.9	6.3	6.3	6.3	8.5	8.8	8.8	8.7	8.7	8.7	8.7	8.7
Salinity (‰).	34.60	34.67	34.70	34.70	34.70	34.79	34.81	34.81	34.63	34.63	34.63	34.63	34.63	34.63	34.63	34.63
Ccm. examined.	50	50	50	50	50	50	50	50	50	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)
Peridiniales.																
79. Amphidinium sp.	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. Ceratium arcticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — furca.	..	..	..	..	..	..	..	..	..	..	20	..	20	..	..	..
83. — fusus.	..	..	..	..	..	..	..	..	20	..	..	20	..	20	..	20
84. — intermedium.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
84. — lineatum.	20	..	..	..	20	..	20	..	20	..	..	..	20	20	20	40
86. — longipes.	..	..	20	..	..	..	..	..	..	40	..	..	20	..	..	..
87. — macroceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. — tripos.	..	..	20	..	..	..	..	..	20	..	..	..	..	..	..	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Dinophysis acuminata.	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
91. — acuta.	..	..	..	..	..	..	..	..	20	80	..	..	..	40	..	..
92. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
93. — rotundata.	..	..	..	..	..	..	..	..	..	..	..	20	..	20	..	..
94. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
96. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. — sp.	280	..	20	..	..	..	20	40	80	..	..	..	..	..	60	..
98. Glenodinium bipes.	160	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
99. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — sp.	280	..	..	..	..	..	..	..	100	..	..	..	20	80	..	..
101. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..
102. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni.	..	..	..	..	..	..	..	..	80	100	100	60	120	40	60	..
105. — sp.	440	..	..	..	..	..	20	..	20	..	80	..	..	..	..	120
106. Peridinium achromaticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — conicum.	..	..	..	..	..	..	..	..	80	..	..	..	..	..	40	..
108. — crassipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
109. — depressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
111. — pallidum.	..	..	..	..	..	..	..	..	60	..	60	20	20	..	..	..
112. — parallelum.	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
113. — pellucidum.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
114. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii.	..	..	..	..	..	..	..	..	20	..	..	..	..	..	20	..
116. Peridinia cetera.	..	..	..	..	..	..	..	..	20	60	40	20	20	20	40	20
117. Pouchetia nigra.	..	..	..	20	..	..	..	..	..	..	40	20	..	..	..	..
118. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	60
119. Prorocentrum micans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
121. Peridiniales indeterm.	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..	20
Flagellata.																
122. Phaeocystis globosa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Pollen.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
124. Pollen of firs.	..	..	..	..	..	40	80	20	..	..	..	..	..	..	20	..
Protozoa.																
125. Laboea conica.	40	..	40	..	..	..	..	..	..	..	..	..	..	..	20	..
126. — strobila.	420	460	260	120	200	..	..	..	180	120	100	40	40	60	40	..
127. Laboeae ceterae.	3300	..	40	180	280	40	20	..	20	120	40	120	100	40	80	60
128. Mesodinium.	180	300	120	140	80	..	40	..	180	340	220	120	80	80	120	140
129. Rhynchomonas marina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea.	40	..	40	20	20	80	40	100	..	20	20	80	120	80	40	80
131. — cyathus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
134. Tintinnus acuminatus.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Crustacea.																
136. Copepoda indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Metanauplii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii.	40	40	40	40	60	..	..	..	..	20	..	..	..	..	80	40
139. Crustacea cetera.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
140. Fritillaria borealis.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
141. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae.	..	..	..	..	..	..	..	20	..	..	20	..	20	..	..	..
143. Larvae indeterm.	..	..	40	20	..	20	..	..	..	..	20	20	..	..	20	40
144. Larvae of Gastropoda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova.	40	20	120	60	60	100	80	..	40	160	120	120	160	100	280	240
146. Round cells (Diam. 10—40 μ).	..	..	60	..	60	40	40	100	20	240	60	120	180	..	180	..
147. Indeterminable cells.	20	..	40	20	20	..	60	40	..	..	..	60	80	20	20	100

Station	H 5. 54°5' N. 1°28' E. 19/5							H 6. 53°43' N. 0°32' E. 19/5				H. 7. 53°7' N. 1°10' E. 19/5		
Depth (Metres).	0	10	20	30	40	50	60	0	10	20	25	0	10	20
Temperature (° C).	8.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.2	10.2	10.2
Salinity (‰).	34.70	34.70	34.72	34.72	34.70	34.72	34.70	34.45	34.45	34.45	34.45	33.95	33.95	33.95
Ccm. examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peridiniales.														
79. Amphidinium sp.	60	..	..	..	..	..	..	..	..	..	..	20	..	..
80. Ceratium arcticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum.	..	..	..	..	..	40	..	..	..	..	..	..	..	..
82. — furca.	40	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — fusus.	..	..	..	20	..	20	..	..	..	..	..	..	..	..
84. — intermedium.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. — lineatum.	..	..	..	..	20	..	..	..	..	20	..	..	..	..
86. — longipes.	20	20	..	20	80	..	..	..	..	..	..	..	..	..
87. — macroceros.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
88. — tripos.	..	..	..	40	..	..	..	..	..	..	..	..	..	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Dinophysis acuminata.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
91. — acuta.	..	..	..	..	20	..	..	..	..	..	..	..	..	..
92. — norvegica.	280	40	40	20	40	20	40	20	..	..	..	..	..	..
93. — rotundata.	60	40	..	..	20	80	..	20	..	..	..	..	..	..
94. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. — sp.	140	40	60	..	20	100	..	60	40	40	..	60	..	40
98. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
99. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — sp.	200	..	20	..	20	..	..	40	20	20	..	180	260	180
101. Gonyaulax spinifera.	40	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	20	..	..	..	..	..
104. Gymnodinium Lohmanni.	80	80	160	120	60	60	20	..	..	..	..	..	..	20
105. — sp.	40	20	80	80	180	100	20	20	..	..	20	40	20	..
106. Peridinium achromaticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — conicum.	..	..	..	..	..	40	..	20	..	..	20	..	..	..
108. — crassipes.	..	20	..	..	..	..	..	..	..	..	..	..	..	..
109. — depressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — pallidum.	160	..	..	20	..	..	..	..	..	..	..	..	..	..
112. — parallelum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — pellucidum.	40	..	..	..	20	..	..	..	..	..	..	20	..	..
114. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii.	20	..	..	..	..	20	..	..	..	20	20	..	..	..
116. Peridinia cetera.	60	..	..	20	20	..	60	..	..	..	20	..	..	..
117. Pouchetia nigra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
118. — sp.	20	..	..	..	..	20	..	20	..	..	..	20	..	..
119. Prorocentrum micans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
121. Peridiniales indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
Flagellata.														
122. Phaeocystis globosa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Pollen.	..	..	..	20	..	..	..	..	..	20	..	..	..	..
124. Pollen of firs.	..	..	..	..	..	..	..	..	20	..	..	..	..	20
Protozoa.														
125. Laboea conica.	80	40	20	..	..	20	..	..	..	..	20	60	20	..
126. — strobila.	200	1380	480	480	180	140	100	40	..	..	..	..	..	..
127. Laboeae ceterae.	2160	200	160	300	180	160	200	120	40	40	60	160	120	120
128. Mesodinium.	60	420	120	240	220	140	40	180	200	60	100	140	160	60
129. Rhynchomonas marina.	..	..	..	..	..	..	..	60	60	80	40	580	200	180
130. Tintinnopsis beroidea.	20	40	60	120	220	120	60	80	80	40	40	120	120	40
131. — cyathus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
134. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	..	..	40	..	..	..	..	..	..	..	..	..
Crustacea.														
136. Copepoda indeterm.	..	20	..	20	..	..	20	..	..	..	..	..	..	..
137. Metanauplii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii.	..	60	40	40	100	20	..	..	..	20	40	..	..	..
139. Crustacea cetera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Fritillaria borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Larvae indeterm.	..	40	20	..	40	20	20	20	..	20	..	..	..	20
144. Larvae of Gastropoda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova.	..	40	60	120	100	200	80	..	20	20	60	220	100	120
146. Round cells (Diam. 10—40 μ).	..	20	..	60	80	60	40	..	20	..	..	..	..	..
147. Indeterminable cells.	..	40	..	..	..	..	..	..	..	..	20	..	..	40

Station	H 8. 52°40' N. 2°28' E. 18/5					H 8 a. 52°30' N. 3°0' E. 18/5					H 9. 52°15' N. 3°28' E. 18/5			
Depth (Metres).	0	10	20	30	45	0	10	20	30	35	0	10	20	30
Temperature (° C).	9.5	9.5	9.5	9.5	9.5	10.6	10.6	10.6	10.6	10.6	10.9	10.9	10.9	10.9
Salinity (‰).	34.22	34.23	34.23	34.22	34.23	35.08	35.07	35.08	35.07	35.07	34.36	34.36	34.36	34.36
Ccm. examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peridiniales.														
79. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. Ceratium arcticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — furca.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — fusus.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
84. — intermedium.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
84. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. — longipes.	..	..	..	..	..	20	..	..	..	..	..	..	..	..
87. — macroceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. — tripos.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Dinophysis acuminata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
91. — acuta.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — rotundata.	..	..	..	20	..	..	..	..	..	..	..	..	..	..
94. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	20	..	20	..
95. — sp.	60	..	..	..	20	..	..	..	..	..	..	..	..	..
96. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. — sp.	..	..	..	..	..	..	..	..	..	..	20	..	..	..
98. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — sp.	..	20	20	..	40	..	..	..	..	..	..	..	..	..
101. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni.	260	80	20	120	100	..	..	..	..	..	40	200	120	..
105. — sp.	40	40	20	60	60	..	..	..	..	40	..	120	20	20
106. Peridinium achromaticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — conicum.	..	..	..	20	20	..	..	..	..	..	..	20	..	..
108. — crassipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — depressum.	..	..	20	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — pallidum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — parallelum.	80	..	140	40	40	..	..	..	..	..	..	..	..	..
113. — pellucidum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
114. — pentagonum.	..	..	20	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
116. Peridinia cetera.	..	20	20	20	..	..	..	..	..	20	..	..	..	..
117. Pouchetia nigra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
118. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. Prorocentrum micans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
121. Peridiniales indeterm.	..	60	..	..	..	..	..	..	..	..	..	..	..	..
Flagellata.														
122. Phaeocystis globosa.	+	..	..	+	+	+	+	+	+	+	+	+	+	c
123. Pollen.	20	..	..	..	20	..	..	..	..	..	..	..	..	..
124. Pollen of firs.	20	..	..	..	..	..	..	..	..	..	20	..	..	20
Protozoa.														
125. Laboea conica.	120	80	40	60	60	..	..	..	40	20	60	80	140	100
126. — strobila.	20	..	..	..	..	60	20	40	80	20	80	180	120	200
127. Laboeae ceterae.	820	460	320	480	500	..	..	..	20	..	80	160	160	20
128. Mesodinium.	300	140	60	80	60	..	..	..	..	20	..	..	20	..
129. Rhynchomonas marina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea.	..	..	20	20	..	..	..	..	..	..	..	..	20	20
131. — cyathus.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
132. — Vosmaeri.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	20	20	..	..	..	..	..	..	..	..	..
134. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	40	..	..	..	..	..	..	..	..	..	..	..
Crustacea.														
136. Copepoda indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
137. Metanauplii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii.	20	..	..	..	20	..	20	20	..	..	..	..	..	..
139. Crustacea cetera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Fritillaria borealis.	20	40	20	..	20	..	..	..	..	..	..	..	..	..
141. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Larvae indeterm.	..	..	20	..	..	..	..	..	..	..	..	..	..	..
144. Larvae of Gastropoda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova.	100	20	80	80	20	..	..	20	..	..	..	80	260	40
146. Round cells (Diam. 10—40 μ).	80	20	40	60	..	..	..	..	..	..	..	..	..	..
147. Indeterminable cells.	..	..	..	60	..	..	20	20	..	20	..	..	..	..

Table V. South-western part of the North Sea (continued).

Station	H 1. 53°14' N. 4°15' E. 31/5				H 2. 53°44' N. 3°28' E. 21/5					H 3. 54°5' N. 2°57' E. 21/5						H 4. 54°28' N. 2°16' E. 20/5				
Depth (Metres)	0	10	15	26	0	10	20	30	37	0	10	20	30	40	48	0	5	10	15	18
Temperature (°C)	11.1	11.0	11.0	11.0	10.0	9.9	9.7	9.7	9.7	9.6	8.8	8.5	8.5	8.5	8.5	10.3	10.3	10.3	10.3	10.3
Salinity (‰)	34.96	34.94	34.94	34.94	34.45	34.45	34.45	34.47	34.49	34.70	34.70	34.70	34.70	34.70	34.70	34.76	34.76	34.78	34.78	34.78
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peridiniales.																				
79. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. Ceratium arcticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — furca	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
83. — fusus	40	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. — intermedium	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. — lineatum	..	..	..	..	..	20	..	20	..	..	..	..	..	..	..	..	..	..	..	..
86. — longipes	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	20	20	..	20
87. — macroceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. — tripos	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	20	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Dinophysis acuminata	..	..	..	..	..	..	..	..	..	140	20	..	20	..	..	20	80	20	40	20
91. — acuta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — rotundata	..	..	20	..	..	..	20	20	20	20	..	..	..	..	..	..	20	..	..	..
94. Diplopsalis lenticula	40	20	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Exuviaella baltica	..	..	..	40	40	40	20	20	..	460	60	20	20	40	40	140	160	..	40	20
97. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — danicum	..	20	..	..	..	..	..	..	..	20	..	..	..	..	20	..	20	..	20	..
100. — sp.	..	..	20	40	80	80	40	..	40	100	160	..	20	..	..	20	..	..	..	80
101. Gonyaulax spinifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105. — sp.	60	20	..	60	800	560	860	360	460	260	340	..	20	..	..	40	40	60	100	60
106. Peridinium achromaticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
107. — conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
108. — crassipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
109. — depressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum	..	..	..	..	60	20	..	20	..	..	..	..	..	..	..	..	..	..	..	..
111. — pallidum	20	..	..	..	20	40	..	..	..	..	..	..	20	..	..	40	20	..	20	100
112. — parallelum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — pellucidum	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	120	20	..
114. — pentagonum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii	..	..	20	..	..	..	..	20	..	..	20	..	..	..	..	20	..	..	20	..
116. Peridinia cetera	20	20	..	..	40	..	20	..	40	..	60	..	..	..	..	40	40	..	20	..
117. Pouchetia nigra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
118. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. Prorocentrum micans	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum	60	40	20	..	60	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
121. Peridiniales indeterm.	..	20	80	..	..	..	..	20	20	200	120	..	..	..	..	..	..	..	..	..
Flagellata.																				
122. Phaeocystis globosa	+	c	c	c	..	+	c	cc	cc	..	..	..	..	..	..	..	..	..	..	..
123. Pollen	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Pollen of firs	..	20	20	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																				
125. Laboea conica	80	120	100	60	160	20	40	200	340	640	140	..	..	20	..	..	100	..	20	20
126. — strobila	100	280	240	100	260	160	80	20	20	340	400	60	40	..	20	120	100	80	120	60
127. Laboeae ceterae	120	200	360	280	520	340	320	160	140	13680	15220	480	400	500	520	6120	7240	3320	4680	3960
128. Mesodinium	..	..	..	..	60	40	80	..	40	..	20	..	80	20	20	..	20	..	20	120
129. Rhynchomonas marina	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea	..	20	..	..	..	..	..	..	40	..	..	20	40	160	160	420	620	420	640	740
131. — cyathus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..
133. — sp.	..	..	120	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
134. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	..	20	160	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
Crustacea.																				
136. Copepoda indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Metanauplii	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii	..	..	60	20	20	20	..	40	..	..	60	..	..	..	40	40	..	20	20	..
139. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
140. Fritillaria borealis	..	..	40	..	80	60	40	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Rotatoria	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Larvae indeterm.	..	..	20	40	20	40	..	20	..	..	..	..	..	..	..	..	..	..	..	40
144. Larvae of Gastropoda	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	20	..	..	..	..
145. Ova	..	60	140	80	560	140	40	..	60	..	..	40	60	20	20	20	..	..	20	..
146. Round cells (Diam. 10—40 μ)	..	60	..	..	1300	840	920	620	220	..	..	..	..	..	..	..	..	..	..	..
147. Indeterminable cells	..	100	80	320	80	280	180	200	220	240	300	200	120	180	40	80	260	220	220	200

Table V. South-western part of the North Sea (Dutch investigations) (continued).

Station	H 4 A. 55°10' N. 1°10' E. 20/5								H 4 B. 55°10' N. 0°20' W. 20/5							
Depth (Metres)	0	5	10	15	20	30	40	50	0	10	20	30	40	50	60	70
Temperature (°C)	9.4	9.4	9.3	8.8	8.5	6.4	6.4	6.4	8.9	8.5	8.4	8.2	7.9	6.3	6.3	6.3
Salinity (‰)	34.70	34.70	34.7[illegible]	34.76	34.78	34.81	34.81	34.81	34.60	34.67	34.70	34.70	34.70	34.79	34.81	34.81
Ccm. examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peridiniales.																
79. Amphidinium sp.	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..	..
80. Ceratium arcticum	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum	..	..	60	20	..	..	..	..	..	..	..	..	..	..	..	..
82. — furca	80	260	200	60	..	40	20	..	..	..	..	..	..	..	..	..
83. — fusus	..	..	..	120	20	20	..	..	..	..	..	..	..	..	..	..
84. — intermedium	..	20	40	120	..	..	..	..	..	..	..	..	..	..	..	..
85. — lineatum	60	80	80	20	..	..	..	..	20	..	..	..	20	..	20	..
86. — longipes	520	340	300	40	20	20	..	20	..	..	20	..	..	..	..	..
87. — macroceros	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. — tripos	200	220	300	180	20	20	..	..	..	..	20	..	..	..	..	..
89. — sp.	..	..	..	..	..	..	20	20	..	..	..	..	..	..	..	..
90. Dinophysis acuminata	..	..	20	..	20	20	..	..	..	..	..	..	..	..	..	..
91. — acuta	20	60	20	40	20	..	100	..	..	..	..	..	..	..	..	..
92. — norvegica	20	..	20	..	..	60	40	20	..	..	..	..	..	..	..	..
93. — rotundata	..	20	60	20	20	40	..	..	..	..	..	..	..	..	..	..
94. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Exuviaella baltica	180	580	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. — sp.	..	..	..	60	..	..	..	..	280	..	20	..	..	..	20	40
98. Glenodinium bipes	..	..	..	..	..	..	..	..	160	..	..	..	..	..	..	..
99. — danicum	40	120	40	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — sp.	..	..	40	60	20	..	..	20	280	..	..	..	..	..	..	..
101. Gonyaulax spinifera	..	20	40	40	..	..	..	..	..	..	..	..	..	..	..	..
102. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni	..	120	..	220	20	20	..	..	..	..	..	..	..	..	..	..
105. — sp.	120	..	..	..	40	..	20	..	440	..	..	..	..	..	20	..
106. Peridinium achromaticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
108. — crassipes	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — depressum	60	40	80	20	..	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
111. — pallidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — parallelum	40	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — pellucidum	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
114. — pentagonum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii	..	..	..	20	..	..	20	..	..	..	..	..	..	..	..	..
116. Peridinia cetera	60	..	20	..	60	20	..	..	..	..	..	..	..	..	..	..
117. Pouchetia nigra	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
118. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
119. Prorocentrum micans	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum	..	..	20	40	..	..	..	..	..	..	..	..	..	..	..	..
121. Peridiniales indeterm.	..	140	160	220	280	20	60	80	..	..	..	..	..	..	..	..
Flagellata.																
122. Phaeocystis globosa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Pollen	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Pollen of firs	..	20	..	..	..	..	..	..	..	..	..	..	..	40	80	20
Protozoa.																
125. Laboea conica	..	60	40	180	..	..	..	..	40	..	40	..	..	..	..	..
126. — strobila	40	40	..	1800	420	..	20	20	420	460	260	120	200	..	..	..
127. Laboeae ceterae	400	760	280	800	260	60	100	20	3300	..	40	180	280	40	20	..
128. Mesodinium	20	120	20	340	40	20	..	..	180	300	120	140	80	..	40	..
129. Rhynchomonas marina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea	..	..	..	..	..	40	20	100	40	..	40	20	20	80	40	100
131. — cyathus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
134. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
135. Infusoria indeterm.	..	..	..	100	..	..	..	..	..	..	..	..	..	..	..	..
Crustacea.																
136. Copepoda indeterm.	..	..	40	40	40	..	..	..	..	..	..	..	..	..	..	..
137. Metanauplii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii	40	20	40	..	80	..	..	..	40	40	40	40	60	..	..	..
139. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
140. Fritillaria borealis	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
141. Rotatoria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
143. Larvae indeterm.	..	..	..	40	20	..	..	..	..	..	40	20	..	20	..	..
144. Larvae of Gastropoda	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova	..	..	100	100	80	..	20	40	40	20	120	60	60	100	80	..
146. Round cells (Diam. 10—40 μ)	..	..	..	..	..	..	..	..	..	..	60	..	60	40	40	100
147. Indeterminable cells	100	220	..	280	180	100	220	220	20	..	40	20	20	..	60	40

Station	H 4 C. 54°25' N. 0°40' E. 19/5								H 5. 54°5' N. 1°28' E. 19/5						
Depth (Metres)	0	10	20	30	40	50	60	68	0	10	20	30	40	50	60
Temperature (°C)	8.5	8.8	8.8	8.7	8.7	8.7	8.7	8.7	8.9	8.4	8.4	8.4	8.4	8.4	8.4
Salinity (‰)	34.63	34.63	34.63	34.63	34.63	34.63	34.63	34.63	34.70	34.70	34.72	34.72	34.70	34.72	34.70
Ccm. examined	50	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50	50	50	50	50	50	50
Peridiniales.															
79. Amphidinium sp.	..	..	..	..	..	..	..	..	60	..	..	..	..	..	..
80. Ceratium arcticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — bucephalum	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..
82. — furca	..	..	20	..	20	..	..	..	40	..	..	..	..	..	..
83. — fusus	20	..	..	20	..	20	..	20	..	..	..	20	..	20	..
84. — intermedium	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
85. — lineatum	20	..	..	..	20	20	20	40	..	..	..	..	20	..	..
86. — longipes	..	40	..	..	20	..	..	..	20	20	..	20	80	..	..
87. — macroceros	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
88. — tripos	20	..	..	..	..	..	..	..	..	..	..	40	..	..	..
89. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Dinophysis acuminata	20	..	..	..	..	..	..	..	20	..	..	..	..	..	..
91. — acuta	20	80	..	..	..	40	..	..	..	..	..	..	20	..	..
92. — norvegica	..	..	..	..	..	..	20	..	280	40	40	20	40	20	40
93. — rotundata	..	..	..	20	..	20	..	..	60	40	..	..	20	80	..
94. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	20	..	..	..	20	..	..	..	..	..	..
96. Exuviaella baltica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. — sp.	80	..	..	..	..	..	60	..	140	40	60	..	20	100	..
98. Glenodinium bipes	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — danicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — sp.	100	..	..	..	20	80	..	..	200	..	20	..	20	..	..
101. Gonyaulax spinifera	..	..	..	..	40	..	..	..	40	..	..	..	..	..	..
102. — triacantha	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
103. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Gymnodinium Lohmanni	80	100	100	60	120	40	60	..	80	80	160	120	60	60	20
105. — sp.	20	..	80	..	..	..	..	120	40	20	80	80	180	100	20
106. Peridinium achromaticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — conicum	80	..	..	..	..	..	40	..	..	..	..	..	..	40	..
108. — crassipes	..	..	..	..	..	..	..	20	..	20	..	..	..	..	..
109. — depressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — ovatum	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
111. — pallidum	60	..	60	20	20	..	..	..	160	..	..	20	..	..	..
112. — parallelum	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
113. — pellucidum	..	..	..	..	..	20	..	..	40	..	..	..	20	..	..
114. — pentagonum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. — Steinii	20	..	..	..	..	..	20	..	20	..	..	..	..	20	..
116. Peridinia cetera	20	60	40	20	20	20	40	20	60	..	..	20	20	..	60
117. Pouchetia nigra	..	..	40	20	..	..	..	..	..	..	..	..	..	..	..
118. — sp.	..	..	..	..	..	..	..	60	20	..	..	..	..	20	..
119. Prorocentrum micans	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Protoceratum reticulatum	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
121. Peridiniales indeterm.	..	..	..	40	..	..	..	20	..	..	..	..	..	..	..
Flagellata.															
122. Phaeocystis globosa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Pollen	..	..	..	..	..	..	20	..	..	..	..	20	..	..	..
124. Pollen of firs	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
Protozoa.															
125. Laboea conica	..	..	..	..	..	..	20	..	80	40	20	..	..	20	..
126. — strobila	180	120	100	40	40	60	40	..	200	1380	480	480	180	140	100
127. Laboeae ceterae	20	120	40	120	100	40	80	60	2160	200	160	300	180	160	200
128. Mesodinium	180	340	220	120	80	80	120	140	60	420	120	240	220	140	40
129. Rhynchomonas marina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Tintinnopsis beroidea	..	20	20	80	120	80	40	80	20	40	60	120	220	120	60
131. — cyathus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. — Vosmaeri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
133. — sp.	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
134. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..
Crustacea.															
136. Copepoda indeterm.	..	..	..	..	..	..	..	..	..	20	..	20	..	..	20
137. Metanauplii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Nauplii	..	20	..	..	..	..	80	40	..	60	40	40	100	20	..
139. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Fritillaria borealis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Rotatoria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Cystae	..	..	20	..	20	..	..	..	..	..	..	..	..	..	..
143. Larvae indeterm.	..	..	20	20	..	..	20	40	..	40	20	..	40	20	20
144. Larvae of Gastropoda	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Ova	40	160	120	120	160	100	280	240	..	40	60	120	100	200	80
146. Round cells (Diam. 10—40 μ)	20	240	60	120	180	..	180	..	..	20	..	60	80	60	40
147. Indeterminable cells	..	..	..	60	80	20	20	100	..	40	..	..	..	..	..

Station	H 6. 53°48' N. 0°32' E. 19/5				H. 7. 53°7' N. 19/5	
Depth (Metres)	0	10	20	25	0	10
Temperature (°C)	8.4	8.4	8.4	8.4	10.2	10.2
Salinity (‰)	34.45	34.45	34.45	34.45	33.95	33.95
Ccm. examined	50	50	50	50	50	50
Peridiniales.						
79. Amphidinium sp.	..	..	..	..	20	..
80. Ceratium arcticum	..	..	..	..	..	..
81. — bucephalum	..	..	..	..	..	..
82. — furca	..	..	..	..	..	..
83. — fusus	..	..	..	..	..	..
84. — intermedium	..	..	..	..	..	..
85. — lineatum	..	..	20	..	..	..
86. — longipes	..	..	..	..	..	..
87. — macroceros	..	..	..	..	..	..
88. — tripos	..	..	..	..	..	..
89. — sp.	..	..	..	..	..	..
90. Dinophysis acuminata	..	..	..	..	..	..
91. — acuta	..	..	..	..	..	..
92. — norvegica	20	..	..	..	..	..
93. — rotundata	20	..	..	..	..	..
94. Diplopsalis lenticula	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..
96. Exuviaella baltica	..	..	..	..	..	..
97. — sp.	60	40	40	..	60	..
98. Glenodinium bipes	..	..	..	..	..	20
99. — danicum	..	..	..	..	..	..
100. — sp.	40	20	20	..	180	260
101. Gonyaulax spinifera	..	..	..	..	..	..
102. — triacantha	..	..	..	..	..	..
103. — sp.	..	20	..	..	..	..
104. Gymnodinium Lohmanni	..	..	..	..	..	..
105. — sp.	20	..	..	20	40	20
106. Peridinium achromaticum	..	..	..	..	..	..
107. — conicum	20	..	..	20	..	..
108. — crassipes	..	..	..	..	..	..
109. — depressum	..	..	..	..	..	..
110. — ovatum	..	..	..	..	..	..
111. — pallidum	..	..	..	..	..	..
112. — parallelum	..	..	..	..	..	..
113. — pellucidum	..	..	..	..	20	..
114. — pentagonum	..	..	..	..	..	..
115. — Steinii	..	..	20	20	..	..
116. Peridinia cetera	..	..	..	20	..	..
117. Pouchetia nigra	..	..	..	..	..	..
118. — sp.	20	..	..	..	20	..
119. Prorocentrum micans	..	..	..	..	..	..
120. Protoceratum reticulatum	..	..	..	..	..	..
121. Peridiniales indeterm.	..	..	..	..	..	20
Flagellata.						
122. Phaeocystis globosa	..	..	..	..	..	..
123. Pollen	..	..	20	..	..	..
124. Pollen of firs	..	20	..	..	..	..
Protozoa.						
125. Laboea conica	..	..	..	20	60	20
126. — strobila	40	..	..	..	..	..
127. Laboeae ceterae	120	40	40	60	160	120
128. Mesodinium	180	200	60	100	140	160
129. Rhynchomonas marina	60	60	80	40	580	200
130. Tintinnopsis beroidea	80	80	40	40	120	120
131. — cyathus	..	..	..	..	..	..
132. — Vosmaeri	..	..	..	..	..	..
133. — sp.	..	..	..	..	..	..
134. Tintinnus acuminatus	..	..	..	..	..	..
135. Infusoria indeterm.	..	..	..	..	..	..
Crustacea.						
136. Copepoda indeterm.	..	..	..	..	..	..
137. Metanauplii	..	..	..	..	..	..
138. Nauplii	..	..	20	40	..	..
139. Crustacea cetera	..	..	..	..	..	..
140. Fritillaria borealis	..	..	..	..	..	..
141. Rotatoria	..	..	..	..	..	..
142. Cystae	..	..	..	..	..	..
143. Larvae indeterm.	20	..	20	..	..	..
144. Larvae of Gastropoda	..	..	..	..	..	..
145. Ova	..	20	20	60	220	100
146. Round cells (Diam. 10—40 μ)	..	20	..	..	..	..
147. Indeterminable cells	..	..	..	20	..	..

Table VI. North Sea (English Investigations). June 1912.

Station	… 55°44' N. 0°39½' E.			E 53. 8. VI. 12. 55°58¼' N. 1°21½' E.							E. 52. 8. VI. 12. 56°13' N. 2°2½' E.									E 51. 8. VI. 12. 56°26½' N. 2°47' E.						
Depth (Metres).	40	50	70	0	5	10	20	30	40	50	75	0	5	10	15	20	30	40	50	75	0	5	10	15	20	30
Temperature (° C).	6.65	6.65	6.65	10.34	10.25	10.07	9.80	8.95	6.50	6.45	6.45	10.19	10.20	10.15	9.82	9.50	9.16	7.66	6.42	6.40	9.61	9.62	9.60	9.40	9.25	8.55
Salinity (‰).		34.85	34.965	35.01		35.06	35.06	35.07	35.06	35.02	35.04	34.94	34.92	34.99	34.90	34.92	34.965	34.965	34.94	34.99	35.02		34.99			
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	100	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)

Station	E 51 (cont.)			E 50. 8. VI. 12. 56°41' N. 3°26' E.								E 49. 9. VI. 12. 56°54¾' N. 4°6¾' E.							E 48. 9. VI. 12. 57°9' N. 4°48' E.								E 47. 9. VI. 12. 57°22½' N. 5°28½' E.				
Depth (Metres).	30	50	40	0	5	10	15	20	30	40	50	0	5	10	15	20	40	50	0	5	10	15	20	30	40	50	0	5	10	15	20
Temperature (° C).	6.37	6.25	6.25	9.70	9.70	9.55	9.30	9.20	7.95	6.35	6.15	9.40	9.38	9.25	8.95	8.77	6.35	6.30	10.30	10.30	10.20	8.60	7.90	7.95	6.50	6.50	10.32	10.12	10.05	9.75	8.67
Salinity (‰).	35.02		35.02	34.94	34.92	34.92		34.92		34.92	34.98	34.85		34.82		34.87	34.99	35.01	34.13		34.22	34.60	34.785	34.98	35.00	35.16	32.82		32.80	32.83	33.89
Quantity (cc) examined.	50	50	50	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)	50	50	50	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)	50	50	50 (100)	50	50	50	50	50	50	50	100	100	100	50 (100)	50 (100)

Diatomaceae.
1. Actinocyclus Ehrenbergii.
2. Actinoptychus undulatus.
5. Chaetoceras atlanticum.
6. — boreale.
8. — decipiens.
10. — sp.
11. Coscinodiscus lineatus.
13. Guinardia flaccida.
15. Navicula distans.
16. — sp.
17. Nitzschia Closterium.
18. — sp.
19. Paralia sulcata.
20. Pleurosigma sp.
21. Rhizosolenia alata.
23. — semispina.
24. — Shrubsolei.
25. — Stolterfothii.
27. Thalassiosira decipiens.
28. — sp.
29. Thalassiothrix nitzschioides

Pterospermataceae.
30. Pterosperma Vanhöffenii.

Peridiniales.
32. Ceratium bucephalum.
33. — furca.
34. — fusus.
35. — intermedium.
36. — lineatum.
37. — longipes.
38. — macroceros.
39. — tripos.
40. Dinophysis acuminata.
41. — acuta.
42. — norvegica.
43. — rotundata.
44. Diplopelta bomba.
45. Diplopsalis lenticula.
46. Exuviaella perforata.
47. — baltica.
48. Glenodinium bipes.
49. — sp.
50. Gonyaulax spinifera.
51. — triacantha.
52. Gymnodinium Lohmanni.
53. — sp.
55. Peridinium conicum.
56. — crassipes.
57. — depressum.
59. — ovatum.
60. — pallidum.
62. — pellucidum.
63. — pyriforme.
64. — Steinii.
65. — sp.
66. Pouchetia nigra.
67. — sp.
68. Protoceratium reticulatum.
69. Pyrocystis lunula.

70. Pollen of firs.

Protozoa.
71. Laboea conica.
72. — strobila.
73. Laboeae ceterae.
74. Mesodinium rubrum.
75. Tintinnopsis beroidea.
76. Tintinnus acuminatus.
77. Infusoria indeterminata.
78. Foraminifera.

79. Cystae

Metazoa.
80. Ova.
81. Nauplii of Copepods.
82. Acartia sp.
83. Copepoda indeterminata.
84. Evadne sp.
85. Larvae of Annelids.
86. Other Larvae.
87. Fritillaria borealis.

88. Not determined cells.

…, 9. VI, 40 m. 20. **4.** Cerataulina Bergonii E 52, 8. VI, 75 m. 10. **7.** Chaetoceras cinctum E 52, 8. VI, 0 m. 180. **22.** Rhizosolenia faeroeensis E 52, 8. VI, 30 m. 20. **26.** Rhizosolenia styliformis E 55, 5. VI, 50 m. 20. **31.** Distephanus speculum E 56 4. VI, 75 m. 20.
…20. **12.** Coscinosira polychorda E 52, 8. VI, 40 m. 60. **14.** Lauderia borealis E 55, 5. VI, 30 m. 20. **54.** Peridinium conicoides E 52, 8. VI, 40 m. 20. **58.** Peridinium oceanicum E 52, 8. VI, 15 m. 20. **61.** Peridinium parallelum E 51, 8. VI, 40 m. 20.

Table VI. North Sea (English Investigations).

Table VI. North Sea (English Investigations). June 1912.

Station	E 56. 4. VI. 12. 55°15' N. 0°43' W.								E 55. 5. VI. 12. 55°29' N. 0°3' W.							
Depth (Metres)	5	10	15	20	30	40	50	75	0	5	10	15	20	30	40	50
Temperature (° C)	10.05	10.20	10.20	9.1	8.1	6.95	7.2	6.7	10.	10.	10.	10.	9.5	8.3	6.6	6.55
Salinity (°/₀₀)		34.515		34.63		34.67		34.75	34.58		34.65		34.72	34.785	34.84	34.965
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.																
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Actinoptychus undulatus	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. — boreale	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	..
10. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Coscinodiscus lineatus	..	..	..	..	..	20	..	..	..	..	..	..	20	780	60	40
13. Guinardia flaccida	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Navicula distans	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..	100
16. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80	..
17. Nitzschia Closterium	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Paralia sulcata	..	..	..	..	..	400	800	2000	..	..	..	..	..	..	1200	2080
20. Pleurosigma sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Rhizosolenia alata	..	..	..	..	..	..	..	..	..	20	20	..	110	410	20	..
23. — semispina	..	..	..	..	..	..	..	..	..	..	..	..	10	10	..	..
24. — Shrubsolei	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Thalassiosira decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pterospermataceae.																
30. Pterosperma Vanhöffenii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																
32. Ceratium bucephalum	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..
33. — furca	..	..	..	..	..	..	..	..	..	..	20	..	..	40	..	..
34. — fusus	..	..	..	20	..	..	..	..	20	20	20	..	80	40	..	..
35. — intermedium	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
36. — lineatum	..	40	20	40	..	..	..	..	..	..	40	60	40	20	..	..
37. — longipes	..	..	..	20	..	..	..	..	40	60	80	60	140	220	..	..
38. — macroceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. — tripos	..	..	..	..	..	..	..	..	60	80	20	40	140	160	..	..
40. Dinophysis acuminata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. — acuta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — rotundata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
44. Diplopelta bomba	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
46. Exuviaella perforata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — baltica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
48. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
49. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
50. Gonyaulax spinifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
51. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Gymnodinium Lohmanni	..	..	..	..	..	..	..	..	20	..	..	..	20	..	..	..
53. — sp.	..	20	..	..	..	..	..	20	..	..	..	..	60	..	..	..
55. Peridinium conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — crassipes	..	..	..	..	..	..	..	..	..	20	..	..	40	..	..	..
57. — depressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. — ovatum	..	..	..	..	40	560	1600	..	..	20	..	..	..	20	..	..
60. — pallidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. — pellucidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — pyriforme	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — Steinii	..	..	20	..	..	..	..	..	20	..	..	..	..	60	..	..
65. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Pouchetia nigra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
68. Protoceratium reticulatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Pollen of firs	..	..	20	..	20	..	..	..	40	..	..	20	..	..	..	20
Protozoa.																
71. Laboea conica	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..
72. — strobila	100	..	20	..	140	20	40	..	60	20	20	40	80	120	80	60
73. Laboeae ceterae	80	20	40	20	20	20	..	60	80	20	40	60	300	280	20	..
74. Mesodinium rubrum	20	20	200	20	60	20	..	60	140	60	140	80	120	280	20	..
75. Tintinnopsis beroidea	..	..	..	40	..	..	..	20	..	..	..	..	..	..	..	20
76. Tintinnus acuminatus	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	20
77. Infusoria indeterminata	..	..	..	..	..	..	..	..	..	..	..	20	40	80	20	..
78. Foraminifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
79. Cystae	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
Metazoa.																
80. Ova	..	..	..	..	..	..	..	..	..	..	..	..	20	20	20	..
81. Nauplii of Copepods	..	..	20	40	40	..	..	..	40	40	40	40	..	..	..	..
82. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. Copepoda indeterminata	40	..	60	..	..	..	20	..	20	..	..	60	..	20	..	..
84. Evadne sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. Larvae of Annelids	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. Other Larvae	40	..	..	..	..	..	..	..	20	..	..	..	..	..	..	40
87. Fritillaria borealis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Not determined cells	..	40	100	20	80	20	100	20	200	120	220	380	500	240	100	..

Station	E 54. 8. VI. 12. 55°4[illegible]' N. 0°39½' E.								E 53. 8. VI. 12. 55°58¼' N. 1°21½' E.							
Depth (Metres)	5	10	15	20	30	40	50	70	0	5	10	20	30	40	50	75
Temperature (° C)	10.33	10.0	9.95	9.65	8.7	6.65	6.65	6.65	10.34	10.25	10.07	9.80	8.95	6.50	6.45	6.45
Salinity (°/₀₀)		34.70		34.80	34.8[illegible]		34.85	34.965	35.01		35.06	35.06	35.07	35.06	35.02	35.04
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.																
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Actinoptychus undulatus	..	..	..	..	..	..	..	20	..	..	..	..	..	20	..	..
5. Chaetoceras atlanticum	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..
6. — boreale	..	..	20	..	..	..	40	..	..	..	..	..	..	..	..	..
8. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..
10. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
11. Coscinodiscus lineatus	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
13. Guinardia flaccida	..	..	..	..	120	..	..	..	..	..	..	..	..	20	100	40
15. Navicula distans	..	..	..	..	..	..	40	..	..	..	..	..	..	..	20	40
16. — sp.	..	..	..	..	..	80	20	80	..	..	..	..	20	..	..	..
17. Nitzschia Closterium	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
18. — sp.	..	..	..	..	40	..	..	..	..	..	..	60	180	180	..	..
19. Paralia sulcata	..	..	..	..	..	2680	2680	1980	..	..	..	..	..	1640	440	860
20. Pleurosigma sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
21. Rhizosolenia alata	470	1240	1820	3200	8410	310	160	40	660	1820	1590	2940	3610	1160	420	90
23. — semispina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — Shrubsolei	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — Stolterfothii	..	..	..	..	..	60	40	..	..	..	..	..	20	..	160	40
27. Thalassiosira decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. — sp.	..	..	..	..	..	..	..	..	..	..	..	20	..	20	..	..
29. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pterospermataceae.																
30. Pterosperma Vanhöffenii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																
32. Ceratium bucephalum	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..
33. — furca	80	40	60	40	180	..	..	..	20	100	60	100	280	..	..	..
34. — fusus	..	40	40	60	80	..	..	..	..	40	40	80	180	..	..	..
35. — intermedium	..	..	..	20	..	..	..	..	..	..	..	..	20	..	..	..
36. — lineatum	..	40	..	..	140	..	..	..	..	..	..	..	20	..	..	..
37. — longipes	..	60	60	60	540	..	20	..	40	60	40	20	40	..	..	20
38. — macroceros	..	..	..	..	20	..	..	..	..	20	..	40	20	..	..	..
39. — tripos	20	40	160	80	180	40	..	..	20	..	20	80	180	40	20	40
40. Dinophysis acuminata	..	20	..	..	..	..	..	..	..	..	..	..	20	..	..	..
41. — acuta	..	20	40	60	..	..	..	..	..	..	..	40	60	..	..	..
42. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — rotundata	..	..	..	..	..	..	..	..	20	..	..	..	..	..	20	..
44. Diplopelta bomba	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. Exuviaella perforata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — baltica	..	20	..	..	..	..	..	..	..	..	40	200	120	80	..	40
48. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
49. — sp.	..	20	80	..	20	..	..	..	20	20	40	140	740	80	..	20
50. Gonyaulax spinifera	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
51. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Gymnodinium Lohmanni	..	..	..	20	..	40	20	..	..	40	..	100	40	20	..	..
53. — sp.	..	..	20	40	20	40	..	..	..	..	..	60	440	20	..	..
55. Peridinium conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — crassipes	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
57. — depressum	..	..	..	..	40	..	..	..	..	..	..	..	20	20	..	..
59. — ovatum	..	..	..	..	..	20	..	..	..	..	..	20	40	..	..	..
60. — pallidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. — pellucidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — pyriforme	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — Steinii	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
65. — sp.	..	..	..	..	20	..	..	..	..	..	..	..	20	..	..	..
66. Pouchetia nigra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
68. Protoceratium reticulatum	20	80	120	80	..	..	..	..	120	240	100	120	20	..	..	..
69. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Pollen of firs	..	20	..	..	..	..	..	..	..	40	..	20	20	..	..	..
Protozoa.																
71. Laboea conica	..	60	..	20	..	..	..	20	20	..	20	60	20	..	..	..
72. — strobila	..	..	40	40	20	40	20	..	..	..	..	20	20	20	20	..
73. Laboeae ceterae	20	80	360	380	120	80	60	..	40	100	180	1520	2400	80	80	100
74. Mesodinium rubrum	40	60	20	40	100	140	40	..	160	500	40	340	220	260	120	160
75. Tintinnopsis beroidea	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
77. Infusoria indeterminata	..	..	..	..	..	..	20	..	..	..	..	60	..	..	..	..
78. Foraminifera	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
79. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..
Metazoa.																
80. Ova	20	80	20	140	380	..	60	40	40	..	20	60	140	..	120	..
81. Nauplii of Copepods	40	..	..	..	..	20	..	..	..	..	20	..	..	..	..	..
82. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. Copepoda indeterminata	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Evadne sp.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. Larvae of Annelids	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. Other Larvae	..	20	..	..	20	40	60	..	..	40	60	..	40	..	..	..
87. Fritillaria borealis	..	..	..	..	20	..	..	..	..	..	..	..	..	20	..	..
88. Not determined cells	..	..	..	60	40	..	60	40	60	140	40	200	380	400	280	1720

Station	E. 52. 8. VI. 12. 56°13' N. 2°2½' E.									E 51. 8. VI. 12. 56°26½' N. 2°47' E.								
Depth (Metres)	0	5	10	15	20	30	40	50	75	0	5	10	15	20	30	40	50	70
Temperature (° C)	10.19	10.20	10.15	9.82	9.50	9.16	7.66	6.42	6.40	9.61	9.62	9.60	9.40	9.25	8.55	6.37	6.25	6.25
Salinity (°/₀₀)	34.94	34.92	34.99	34.90	34.92	34.965	34.965	34.94	34.99	35.02		34.99				35.02		35.02
Quantity (cc) examined	50	50	50	50	50	50	50	50	100	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)	50 (100)	50	50	50
Diatomaceae.																		
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	40	90	..	..	..	..	..	..	..	..	..
2. Actinoptychus undulatus	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	20
5. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	10	..	40	..	..	..	..	..	80	60
6. — boreale	..	..	..	20	..	..	60	120	..	..	..	..	..	..	..	..	20	..
8. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — sp.	..	..	60	..	60	160	320	..	250	..	..	..	..	..	..	..	..	..
11. Coscinodiscus lineatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
13. Guinardia flaccida	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	280	40
15. Navicula distans	..	..	..	..	..	..	..	40	120	..	..	..	..	..	..	..	..	..
16. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Nitzschia Closterium	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	20	..
18. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Paralia sulcata	..	..	..	..	..	..	100	1140	7440	..	..	..	..	90	..	580	[illegible]	5420
20. Pleurosigma sp.	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	..
21. Rhizosolenia alata	930	190	1050	380	1630	1420	830	70	215	..	..	..	..	..	10	90	[illegible]	160
23. — semispina	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	20	..
24. — Shrubsolei	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	50	1910	2340
25. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80	120
27. Thalassiosira decipiens	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	20
28. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
29. Thalassiothrix nitzschioides	..	..	..	..	..	..	..	80	150	..	..	..	..	..	..	..	..	..
Pterospermataceae.																		
30. Pterosperma Vanhöffenii	..	..	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..
Peridiniales.																		
32. Ceratium bucephalum	20	..	..	40	..	60	20	..	..	..	..	..	10	10	..	..	..	..
33. — furca	260	220	180	140	180	220	240	40	..	50	90	60	130	140	120	..	..	20
34. — fusus	..	20	40	20	240	240	100	..	..	..	10	50	50	70	250	..	..	..
35. — intermedium	..	..	..	..	..	20	100	..	..	70	50	100	160	240	40	..	..	..
36. — lineatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — longipes	140	140	80	220	280	680	560	..	..	330	480	540	600	550	250	20	20	40
38. — macroceros	20	40	20	20	20	60	..	..	10	20	30	60	80	50	10	..	..	..
39. — tripos	280	180	140	320	760	440	60	..	20	410	440	580	960	990	930	..	..	20
40. Dinophysis acuminata	80	100	180	60	..	..	..	..	..	..	..	..	..	..	..	40	20	..
41. — acuta	80	20	..	80	20	20	..	..	..	20	..	..	10	20	10	..	..	..
42. — norvegica	20	..	..	..	40	..	120	..	..	10	..	10	..	90	10	20	..	20
43. — rotundata	..	20	20	20	40	20	..	..	..	..	30	20	30	110	20	..	..	..
44. Diplopelta bomba	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
45. Diplopsalis lenticula	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
46. Exuviaella perforata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — baltica	280	720	400	..	..	80	..	..	..	80	40	260	20	180	80	20	180	300
48. Glenodinium bipes	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
49. — sp.	..	..	..	..	40	..	20	..	..	..	..	..	..	..	..	..	..	..
50. Gonyaulax spinifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	..	..	..
51. — triacantha	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Gymnodinium Lohmanni	..	..	..	..	..	..	..	40	20	..	..	..	..	..	..	..	60	..
53. — sp.	260	20	160	40	..	140	160	..	..	20	20	100	..	60	80	40	200	..
55. Peridinium conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — crassipes	80	..	..	..	20	60	60	..	..	..	10	10	10	30	..	..	..	..
57. — depressum	..	20	..	20	20	40	..	..	..	..	..	..	..	..	..	..	..	..
59. — ovatum	..	..	..	..	20	20	60	60	..	..	..	..	..	..	..	60	20	20
60. — pallidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. — pellucidum	..	..	..	..	20	..	..	..	10	..	..	..	..	..	..	..	..	..
63. — pyriforme	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — Steinii	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	20
65. — sp.	200	260	..	40	80	..	..	..	..	..	..	..	..	10	..	..	..	20
66. Pouchetia nigra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — sp.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	20
68. Protoceratium reticulatum	20	20	60	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Pollen of firs	..	40	..	..	20	20	..	..	..	..	10	10	..	..	..	..	..	..
Protozoa.																		
71. Laboea conica	320	120	180	..	120	40	..	..	..	20	60	180	100	120	20	..	..	..
72. — strobila	60	120	80	180	580	60	100	..	10	20	180	60	100	100	40	20	..	..
73. Laboeae ceterae	460	160	460	180	820	640	100	40	50	160	180	520	440	260	160	200	200	120
74. Mesodinium rubrum	2780	1220	160	180	20	20	40	..	50	580	560	1160	300	160	380	280	100	..
75. Tintinnopsis beroidea	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	20	..
76. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
77. Infusoria indeterminata	60	40	60	..	80	..	120	..	..	..	20	..	..	..	..	..	..	..
78. Foraminifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
79. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.																		
80. Ova	80	..	20	40	100	240	60	..	..	10	..	10	20	20	40	..	80	60
81. Nauplii of Copepods	80	20	140	..	80	20	..	..	..	10	40	30	10	10	..	..	..	..
82. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. Copepoda indeterminata	..	..	..	..	..	..	..	..	..	..	..	..	..	10	10	..	..	20
84. Evadne sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. Larvae of Annelids	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
86. Other Larvae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. Fritillaria borealis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Not determined cells	220	100	140	240	1080	820	420	..	..	60	160	360	300	840	..	..	20	..

Station	E 50. 8. VI. 12. 56[illegible]			
Depth (Metres)	0	5	10	15
Temperature (° C)	9.70	9.70	9.55	9.30
Salinity (°/₀₀)	34.94	34.92	34.92	
Quantity (cc) examined	50 (100)	50 (100)	50 (100)	50 (100)
Diatomaceae.				
1. Actinocyclus Ehrenbergii	..	..	..	..
2. Actinoptychus undulatus	..	..	..	..
5. Chaetoceras atlanticum	..	..	..	..
6. — boreale	..	..	..	10
8. — decipiens	..	..	..	..
10. — sp.	..	..	..	..
11. Coscinodiscus lineatus	..	..	..	..
13. Guinardia flaccida	..	..	..	..
15. Navicula distans	..	..	..	..
16. — sp.	..	..	..	..
17. Nitzschia Closterium	..	..	..	..
18. — sp.	..	..	..	..
19. Paralia sulcata	..	..	..	..
20. Pleurosigma sp.	..	..	..	..
21. Rhizosolenia alata	130	20	20	80
23. — semispina	..	..	..	..
24. — Shrubsolei	..	..	..	..
25. — Stolterfothii	..	..	..	..
27. Thalassiosira decipiens	..	..	..	..
28. — sp.	..	..	..	..
29. Thalassiothrix nitzschioides	..	..	..	..
Pterospermataceae.				
30. Pterosperma Vanhöffenii	..	10	..	..
Peridiniales.				
32. Ceratium bucephalum	..	..	..	60
33. — furca	210	390	630	350
34. — fusus	80	10	60	250
35. — intermedium	70	60	90	250
36. — lineatum	..	..	..	..
37. — longipes	1070	1130	1960	2810
38. — macroceros	70	20	50	90
39. — tripos	680	590	800	1040
40. Dinophysis acuminata	40	30	10	30
41. — acuta	40	90	80	80
42. — norvegica	60	80	110	110
43. — rotundata	20	50	20	50
44. Diplopelta bomba	..	..	..	..
45. Diplopsalis lenticula	10	10	20	..
46. Exuviaella perforata	20	..	..	..
47. — baltica	160	380	300	1080
48. Glenodinium bipes	..	..	..	..
49. — sp.	100	40	..	..
50. Gonyaulax spinifera	..	..	..	..
51. — triacantha	250	290	60	30
52. Gymnodinium Lohmanni	..	..	..	..
53. — sp.	120	160	200	120
55. Peridinium conicum	..	..	..	..
56. — crassipes	10	..	30	30
57. — depressum	..	30	..	..
59. — ovatum	..	..	..	..
60. — pallidum	..	..	..	..
62. — pellucidum	..	..	..	..
63. — pyriforme	..	..	..	..
64. — Steinii	10	..	..	..
65. — sp.	..	..	..	..
66. Pouchetia nigra	..	..	..	..
67. — sp.	..	..	..	..
68. Protoceratium reticulatum	..	..	10	..
69. Pyrocystis lunula	..	..	..	..
70. Pollen of firs	10	..	10	10
Protozoa.				
71. Laboea conica	300	240	220	240
72. — strobila	160	200	380	760
73. Laboeae ceterae	2400	860	3880	4300
74. Mesodinium rubrum	340	360	380	300
75. Tintinnopsis beroidea	..	..	..	..
76. Tintinnus acuminatus	..	..	..	..
77. Infusoria indeterminata	..	..	..	..
78. Foraminifera	..	..	..	..
79. Cystae	..	..	..	..
Metazoa.				
80. Ova	60	20	40	100
81. Nauplii of Copepods	30	20	50	20
82. Acartia sp.	..	..	..	..
83. Copepoda indeterminata	20	..	10	30
84. Evadne sp.	..	..	..	..
85. Larvae of Annelids	..	..	..	..
86. Other Larvae	10	10	..	10
87. Fritillaria borealis	..	..	..	..
88. Not determined cells	..	..	..	..

Also observed: **3.** Asteromphalus atlanticus E 49, 9. VI, 40 m. 20. **4.** Cerataulina Bergonii E 52, 8. VI, 75 m. 10. **7.** Chaetoceras cinctum E 52, 8. VI, 0 m. 180. **22.** Rhizosolenia faeroeensis E 52, 8. VI, 30 m. 20. **26.** Rhizosolenia [illegible]
9. Chaetoceras densum E 55, 5. VI, 50 m. 20. **12.** Coscinosira polychorda E 52, 8. VI, 40 m. 60. **14.** Lauderia borealis E 55, 5. VI, 30 m. 20. **54.** Peridinium conicoides E 52, 8. VI, 40 m. 20. **58.** Peridinium ocean[illegible]

Table X. North Sea. — Northern Section. (Scottish Investigations). May 1912.

Table X. North Sea. — Northern Section. May 1912.

Station	… 25/5 12. — 61°38' N. 0°41' W.						Sc 10. 25/5 12. — 61°35' N. 0°47' E.							
Depth (m.)	20	30	50	70	100	210	0	10	20	30	50	70	100	200
Temperature (° C.)	9.25	9.23	9.03	9.03	8.94	8.15	9.00	9.03	8.93	8.89	8.83	8.73	8.59	8.17
Salinity (‰)	[illegible]	35.35	35.35	35.35	35.34	35.30	35.35	35.32	35.32	35.32	35.32	35.32	35.32	35.32
Density	[illegible]	27.38	27.41	27.41	27.42	27.51	27.41	27.38	27.40	27.40	27.41	27.43	27.44	27.51
Quantity (cc) examined	50	50	50 (10)	50 (10)	50	50	50 (10)	50 (10)	50 (10)	50 (10)	50	50	50	50
Diatomaceae.														
3. Asterionella sp.	..	100	..	..	..	..	..	..	..	..	..	..	..	..
4. Asteromphalus heptactis.	..	..	..	..	..	..	100	20	..	..	20	20	..	..
5. Chaetoceras atlanticum.	..	..	..	60	..	..	..	..	..	..	..	..	..	..
6. — boreale.	..	..	..	..	..	..	..	40	60	..	..	..	..	..
7. — constrictum.	..	200	..	..	..	..	..	..	..	..	..	..	..	..
8. — compressum.	140	560	2740	380	..	..	..	..	80	80	140	..	..	..
9. — criophilum.	..	20	40	40	..	..	180	140	80	..	..	..	..	..
11. — debile.	120	80	..	..	..	..	..	..	..	..	..	..	..	..
12. — decipiens.	820	200	100	60	..	..	20	..	..	..	..	..	..	..
13. — densum.	..	..	100	60	..	..	..	..	..	100	40	60	..	..
14. — diadema.	..	..	40	20	..	..	..	..	..	..	..	..	..	..
15. — laciniosum.	320	820	3200	580	200	..	160	80	..	120	..	..	..	..
16. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. — scolopendra.	..	..	560	..	..	..	..	..	220	..	..	..	..	..
19. Corethron criophilum.	40	..	20	..	..	..	..	..	20	..	..	..	..	..
20. Coscinodiscus curvatulus.	..	20	..	..	..	..	..	..	..	..	..	..	60	40
21. — excentricus.	..	..	..	..	..	..	..	..	..	..	..	..	..	40
22. — lineatus.	20	..	20	..	..	..	..	..	..	40	20	..	..	20
23. — marginatus.	..	..	..	..	..	20	20	80	20	20	..	..	..	80
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Eucampia groenlandica.	..	..	..	..	..	..	20	20	60	..	..	..	..	..
28. Navicula sp.	80	80	40	..	..	..	..	..	20	20	..	..	..	..
29. Nitzschia Closterium.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — delicatissima.	2080	11200	741400	245400	1040	1940	360300	321300	107100	74100	7680	2380	440	40
31. — seriata.	120	80	420	260	120	..	140	..	..	..	..	..	..	..
32. Paralia sulcata.	..	..	..	..	..	480	..	..	..	..	..	..	..	..
33. Pleurosigma sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Rhizosolenia fragilissima.	..	..	320	480	..	..	..	..	180	..	..	20	..	..
36. — obtusa.	20	60	140	40	..	..	..	..	..	..	..	..	..	..
37. — semispina.	20	40	..	..	..	..	..	..	..	..	..	..	..	..
38. — Stolterfothii.	200	..	80	..	..	..	..	40	..	..	..	..	..	..
39. Thalassiosira gravida.	580	920	740	780	100	20	1580	960	600	400	..	..	..	..
40. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.														
43. Distephanus speculum.	60	..	40	40	..	..	20	80	20	20	..	..	..	..
Peridiniales.														
44. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Ceratium bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. — furca.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — fusus.	20	..	..	..	..	..	..	..	..	..	..	..	..	..
48. — intermedium.	..	..	..	..	..	..	..	..	..	20	..	..	..	..
49. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — longipes.	..	..	..	..	..	..	..	..	20	..	..	..	..	..
52. — tripos.	..	..	..	..	..	..	..	20	..	..	..	..	..	..
53. Dinophysis acuminata.	[illegible]	..	..	..	..	..	120	..	..	..	..	..	..	..
54. — acuta.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
55. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — rotundata.	20	..	40	20	..	..	..	..	20	40	..	..	..	..
57. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
58. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. Glenodinium bipes.	..	..	..	..	..	..	260	..	20	..	..	..	..	..
60. — danicum.	[illegible]	..	..	..	..	..	60	80	60	..	..	..	..	..
61. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Gonyaulax spinifera.	[illegible]	20	..	..	..	..	100	60	..	..	..	..	..	..
64. Gymnodinium Lohmanni.	[illegible]	60	20	80	20	..	660	640	140	100	20	20	..	..
66. Peridinium cerasus.	[illegible]	80	..	160	20	..	..	20	..	..	..	..	..	..
67. — crassipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. — conicoides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. — depressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. — ovatum.	[illegible]	20	..	40	..	..	..	..	..	..	..	..	..	..
71. — pallidum.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
73. — sp.	..	..	..	..	..	..	80	..	..	..	..	..	..	..
74. Phalacroma Rudgei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Protoceratium reticulatum.	[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.														
80. Cyttarocylis denticulata.	[illegible]	340	..	20	60	..	660	320	120	140	20	20	40	..
81. — norvegica.	[illegible]	20	..	40	..	..	640	680	400	1180	..	..	..	..
82. Laboea conica.	..	..	..	..	..	..	440	140	80	40	..	..	..	..
83. — strobila.	..	..	..	..	..	..	100	100	..	..	..	..	..	..
84. — spp.	[illegible]	1120	160	180	60	..	760	780	620	2320	..	100	..	..
85. Ptychocylis urnula.	[illegible]	..	16	..	..	..	..	20	20	20	..	..	..	..
87. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Infusoria indeterminata.	[illegible]	80	60	200	..	..	2300	1820	2260	9500	400	340	100	40
Crustacea.														
89. Copepoda.	[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Nauplii.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
91. Acarina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. Ova.	..	..	..	..	..	..	20	20	..	..	..	..	..	..
94. Round cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Scales of Lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station	Sc 9. 25/5 12. — 61°34' N. 2°04' E.										Sc 8. 26/5 12. — 61°30' N. 3°03' E.									
Depth (m.)	0	10	20	30	50	70	100	200	300	380	0	10	20	30	50	70	100	200	300	390
Temperature (° C.)	8.69	8.83	8.95	8.64	8.44	8.24	8.06	7.47	6.82	5.61	7.70	7.75	7.75	7.02	5.93	6.12	6.42	7.08	6.25	5.86
Salinity (‰)	35.07	35.25	35.25	35.25	35.25	35.25	35.25	35.25	35.25	[illegible]	33.10	33.10	33.10	33.48	34.42	34.76	34.96	35.10	35.10	35.10
Density	27.24	27.35	27.33	27.38	27.42	27.45	27.48	27.66	27.56	[illegible]	25.81	25.81	25.81	26.24	27.11	27.37	27.48	27.51	27.62	27.67
Quantity (cc) examined	50 (5)	50 (5)	50 (5)	50 (10)	50 (10)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.																				
3. Asterionella sp.	..	..	..	..	..	40	..	..	..	..	..	40	20	20	20	..	..	..	..	20
4. Asteromphalus heptactis.	..	..	60	140	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. — constrictum.	580	460	1280	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. — compressum.	660	1300	3940	760	160	180	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — criophilum.	100	100	140	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — debile.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — decipiens.	80	360	220	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — densum.	..	200	220	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. — laciniosum.	..	..	..	200	220	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — pelagicum.	..	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. — scolopendra.	7240	7280	12860	920	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Corethron criophilum.	..	..	..	80	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Coscinodiscus curvatulus.	..	20	40	260	180	200	20	20	..	..	..	..	..	..	..	..	..	..	..	..
21. — excentricus.	..	..	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — marginatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Eucampia groenlandica.	..	40	80	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Navicula sp.	..	..	40	40	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
29. Nitzschia Closterium.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	40
30. — delicatissima.	447200	1,983600	701200	1,308100	128500	18340	3760	40	240	620	140	..	..	..	..	20	40	..	80	1300
31. — seriata.	240	1980	440	140	..	80	..	..	..	..	..	..	..	..	..	..	..	..	..	20
32. Paralia sulcata.	..	..	..	..	..	..	..	..	..	280	..	..	..	..	..	..	..	..	..	100
33. Pleurosigma sp.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
35. Rhizosolenia fragilissima.	100	140	..	..	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. — obtusa.	20	520	180	180	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — semispina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. — Stolterfothii.	..	400	440	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Thalassiosira gravida.	1520	7160	15480	2700	1180	80	100	20	20	..	..	..	..	..	..	..	..	..	..	..
40. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.																				
43. Distephanus speculum.	..	80	20	..	..	60	..	40	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																				
44. Amphidinium sp.	..	..	20	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Ceratium bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
46. — furca.	80	..	..	..	..	..	..	..	..	..	120	80	80	120	..	..	..	20	..	..
47. — fusus.	20	..	..	..	..	..	..	..	..	..	40	40	80	60	..	..	..	..	..	..
48. — intermedium.	..	..	..	..	..	..	..	..	..	..	40	20	20	60	20	..	..	..	..	..
49. — lineatum.	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — longipes.	340	..	80	..	..	..	..	..	..	..	600	600	500	220	..	..	..	..	..	..
52. — tripos.	20	..	..	..	..	..	..	..	..	..	160	120	160	20	..	..	..	..	..	..
53. Dinophysis acuminata.	500	20	120	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
54. — acuta.	40	20	60	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
55. — norvegica.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — rotundata.	..	..	40	..	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..	..
57. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
58. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..
59. Glenodinium bipes.	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — danicum.	360	240	20	..	120	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Gonyaulax spinifera.	3520	320	320	40	..	..	..	..	..	..	20	..	..	..	..	..	20	..	..	..
64. Gymnodinium Lohmanni.	1860	300	320	60	400	100	..	20	20	..	..	..	..	..	..	..	..	..	..	..
66. Peridinium cerasus.	460	220	200	420	340	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — crassipes.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. — conicoides.	100	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. — depressum.	60	..	20	..	..	..	..	..	..	..	..	60	40	..	..	..	..	..	..	..
70. — ovatum.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
71. — pallidum.	80	..	20	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
73. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Phalacroma Rudgei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Protoceratium reticulatum.	640	40	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																				
80. Cyttarocylis denticulata.	1740	160	140	180	100	160	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica.	940	80	140	20	..	40	..	20	..	..	..	..	..	..	..	..	..	..	..	..
82. Laboea conica.	1760	40	..	..	..	..	..	..	..	..	40	20	20	..	..	..	..	..	..	..
83. — strobila.	160	40	..	20	..	..	..	..	..	..	60	40	60	..	..	..	..	..	..	..
84. — spp.	20	20	200	200	20	..	20	..	..	..	40	60	160	60	20	20	..	..	20	..
85. Ptychocylis urnula.	120	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. Tintinnus acuminatus.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Infusoria indeterminata.	4420	640	1460	360	120	80	..	140	..	40	40	20	20	..	60	20	..	120	..	..
Crustacea.																				
89. Copepoda.	20	..	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Nauplii.	40	20	40	..	40	..	..	..	..	..	40	20	60	..	..	..	..	..	..	..
91. Acarina.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	60	20	..	..	..	..
92. Cystae.	..	..	60	20	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
93. Ova.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Round cells.	60	80	..	..	..	..	..	..	..	..	..	20	20	..	..	..	..	..	..	..
96. Scales of Lepidoptera.	..	..	20	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..

Station	Sc 8A. 26/5 12. — 61°35' N. 3°35' E.										Sc 8B. 25/5 12. — 61°35' N. 3°50' E.									Sc 8C. 26/5 12. — 61°35' N. 4°05' E.							
Depth (m.)	0	10	20	30	50	70	100	200	300	350	0	10	20	30	50	70	100	200	270	0	10	20	30	50	70	100	230
Temperature (° C.)	7.60	7.75	7.73	6.25	6.14	6.05	6.22	6.71	6.26	6.17	7.39	7.57	7.55	6.14	6.03	6.22	6.62	6.82	6.43	7.30	7.44	7.43	5.93	5.74	5.80	6.19	6.66
Salinity (‰)	32.83	32.83	32.84	33.61	34.58	34.74	34.74	34.99	35.08	35.08	32.79	32.79	[illegible]	33.68	34.58	34.81	34.87	35.08	35.08	33.04	33.06	33.06	33.48	34.18	34.47	34.74	35.05
Density	25.65	25.63	25.64	26.47	27.23	27.37	27.34	27.47	27.60	27.61	25.63	25.62	[illegible]	26.52	27.24	27.40	27.39	27.53	27.58	25.86	25.85	25.85	26.38	26.97	27.18	27.34	27.51
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.																											
3. Asterionella sp.	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
4. Asteromphalus heptactis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. — constrictum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — debile.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — densum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. — laciniosum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. — scolopendra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Corethron criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Coscinodiscus curvatulus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — excentricus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	40
22. — lineatus.	..	..	..	..	..	..	..	..	20	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — marginatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
26. Eucampia groenlandica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Navicula sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. Nitzschia Closterium.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — delicatissima.	..	..	..	20	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31. — seriata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. Paralia sulcata.	..	..	..	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80
33. Pleurosigma sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Rhizosolenia fragilissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. — obtusa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. — semispina.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Thalassiosira gravida.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
40. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..
41. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.																											
43. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																											
44. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Ceratium bucephalum.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. — furca.	120	100	200	80	..	..	..	..	..	..	100	80	40	..	..	..	..	..	..	20	40	80	..	20	..	..	..
47. — fusus.	180	100	140	140	..	..	..	..	..	..	60	100	60	..	..	..	..	..	..	20	..	..	..	..	..	..	..
48. — intermedium.	20	..	20	20	..	..	..	..	..	..	..	..	40	40	..	..	..	..	..	..	20	20	..	..	..	..	..
49. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — longipes.	900	540	660	680	..	..	20	..	..	..	480	440	220	..	..	..	..	..	..	180	360	240	..	..	..	..	..
52. — tripos.	180	220	380	380	..	..	..	..	20	..	60	140	40	..	..	..	..	..	..	20	100	20	..	..	..	..	..
53. Dinophysis acuminata.	20	40	20	..	20	..	..	..	..	..	20	20	..	40	40	..	20	..	..	..	..	20	..	60	20	..	..
54. — acuta.	..	..	..	..	..	..	..	..	..	..	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
55. — norvegica.	..	100	60	..	20	60	..	..	..	..	40	40	..	20	..	..	..	..	..	..	20	..	..	20	20	..	..
56. — rotundata.	20	60	..	..	..	..	..	..	..	..	20	20	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..
57. Diplopsalis lenticula.	..	20	..	..	..	..	60	..	..	..	..	..	..	..	40	..	..	..	..	..	20	40	..	200	60	40	..
58. Exuviaella baltica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
59. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	100	..	..	..	20	..	..	..
61. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	..	20	20	..	..
62. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Gymnodinium Lohmanni.	..	..	..	..	..	..	20	..	20	..	..	..	..	..	..	20	40	20	20	40	..	20	40	..	..	20	..
66. Peridinium cerasus.	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	20	..	..
67. — crassipes.	20	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. — conicoides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. — depressum.	20	60	40	..	20	..	..	..	..	..	..	20	..	..	20	..	..	..	..	20	..	..	..	..	..	..	..
70. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
71. — pallidum.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
73. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
74. Phalacroma Rudgei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	60	..	..	..	..	..	20
76. Protoceratium reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																											
80. Cyttarocylis denticulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	380	280	280	40	..	..	..	..
82. Laboea conica.	140	60	100	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	140	320	20	..	..	..	..	..
83. — strobila.	60	80	40	..	..	..	..	..	..	..	..	100	20	..	..	..	..	..	..	..	20	20	..	..	..	..	20
84. — spp.	140	260	180	60	..	20	20	..	..	..	20	100	40	320	20	..	..	..	..	..	60	180	40	40	20	..	..
85. Ptychocylis urnula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
88. Infusoria indeterminata.	220	200	60	20	..	..	120	..	..	..	40	280	..	180	20	60	..	20	..	980	680	400	240	20	20	..	..
Crustacea.																											
89. Copepoda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Nauplii.	40	..	20	40	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	20	..	20	..	20	..	..
91. Acarina.	..	20	..	..	..	..	20	..	20	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	20
92. Cystae.	..	20	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. Ova.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Round cells.	..	..	..	..	..	..	..	..	..	..	20	40	..	..	..	..	..	20	..	..	60	20	40	..	..	..	..
96. Scales of Lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

… 11, 50 m. 260. **18.** Climacodium Frauenfeldianum Sc 11 A, 30 m. 40. **24.** Coscinodiscus radiatus Sc 11 A, 1100 m. 80. **27.** Hyalodiscus stelliger Sc 9, 20 m. 20. **34.** Rhizosolenia faeroeensis Sc 10, 50 m. 20. **42.** Dictyocha fibula Sc 11, 10 m. 20. **51.** Ceratium macroceros Sc 9, 0 m. 20. **63.** Gymnodinium gracile Sc 8, 200 m. 20. **65.** Gymnodinium sp. Sc 11 A, 400 m. 20.

… m. 20. **75.** Podolampas palmipes Sc 11, 70 m. 40. **77.** Codonella excaudata (?) Sc 11 A, 70 m. 20. **78.** Codonella pusilla Sc 8, 70 m. 20. **79.** Codonella sp. Sc 8 B, 100 m. 20. **86.** Tintinnopsis beroidea Sc 11 A 700 m. 20. **95.** Larvae indeterminatae Sc 9, 0 m. 80. **97.** Pollen of firs Sc 9, 70 m. 40.

Table X. North Sea. — Northern Section. May 1912.

Table X. North Sea. — Northern Section. (Scottish Investigations). May 1912.

Station	Sc 11 A. 25/5 12. — 61°42' N. 2°00' W.														Sc 11. 25/5 12. — 61°38' N. 0°41' W.							
Depth (m.)	0	10	20	30	50	70	100	200	300	400	500	700	900	1100	0	10	20	30	50	70	100	210
Temperature (° C.)	8.60	8.65	8.65	8.53	7.45	7.44	7.04	6.09	4.21	2.15	0.04	-0.65	-0.86	-1.05	9.25	9.28	9.25	9.23	9.03	9.03	8.94	8.15
Salinity (‰)	35.25	35.23	35.19	35.19	35.17	35.17	35.17	35.08	34.94	34.94	34.94	34.94	34.94	34.94	35.37	35.35	35.35	35.35	35.35	35.35	35.34	35.30
Density	27.38	27.37	27.34	27.36	27.51	27.52	27.58	27.63	27.74	27.94	28.08	28.11	28.12	28.12	27.40	27.36	27.37	27.38	27.41	27.41	27.42	27.51
Quantity (cc) examined	50(10)	50(10)	50(10)	50(10)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50(10)	50(10)	50	50
Diatomaceae.																						
3. Asterionella sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..
4. Asteromphalus heptactis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. — boreale	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	..	..
7. — constrictum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. — compressum	60	340	120	60	..	..	..	..	..	..	..	..	..	..	480	560	..	200	..	..	..	..
9. — criophilum	60	..	20	..	..	..	..	..	..	..	..	..	..	..	3080	3220	140	560	2740	380	..	..
11. — debile	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	40	40	..	..
12. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	120	80	..	..	..	..
13. — densum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	520	280	820	200	100	60	..	..
14. — diadema	40	..	..	..	..	..	..	..	..	..	..	..	..	..	100	40	..	..	100	60	..	..
15. — laciniosum	460	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	20	..	..
16. — pelagicum	..	..	300	..	..	..	..	..	..	..	..	..	..	..	2460	2740	320	820	3200	580	200	..
17. — scolopendra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Corethron criophilum	..	..	80	120	20	..	..	..	..	..	..	..	..	..	..	..	..	..	560	..	..	..
20. Coscinodiscus curvatulus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	40	..	20	..	..	..
21. — excentricus	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	20	..	20	..	..	..	..
22. — lineatus	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
23. — marginatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	20	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
26. Eucampia groenlandica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Navicula sp.	40	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. Nitzschia Closterium	..	..	..	..	..	..	..	..	20	..	..	..	..	60	40	20	80	80	40	..	..	..
30. — delicatissima	173000	159000	223600	54600	200	80	40	..	..	..	..	..	..	..	19640	65620	12080	11200	741400	245400	1040	1940
31. — seriata	80	40	60	..	..	..	..	..	..	..	..	..	20	100	200	160	120	80	420	260	120	..
32. Paralia sulcata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	480
33. Pleurosigma sp.	..	..	..	..	..	..	..	80	320	..	..	..	..	680	..	..	..	..	..	..	..	..
35. Rhizosolenia fragilissima	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. — obtusa	40	20	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	320	480	..	..
37. — semispina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	40	20	60	140	40	..	..
38. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	40	..	..	..	..
39. Thalassiosira gravida	260	120	360	80	..	..	..	..	..	..	..	..	..	..	..	..	200	..	80	..	..	..
40. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. Diatomaceae indeterminatae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1080	1100	880	920	740	780	100	20
Silicoflagellata.																						
43. Distephanus speculum	20	20	..	..	..	..	..	..	..	..	..	..	..	..	20	20	60	..	40	40	..	..
Peridiniales.																						
44. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Ceratium bucephalum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. — furca	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — fusus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. — intermedium	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	20	20	..	..	..	..	..
49. — lineatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — longipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
52. — tripos	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. Dinophysis acuminata	60	20	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
54. — acuta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	200	100	60	..	..	..	..	..
55. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — rotundata	40	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	..	40	20	..	..
58. Exuviaella baltica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — danicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
62. Gonyaulax spinifera	20	..	60	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Gymnodinium Lohmanni	320	200	380	280	20	..	..	..	..	..	..	..	..	..	140	280	100	20	..	..	..	..
66. Peridinium cerasus	..	20	..	20	..	..	..	..	..	..	..	..	..	..	..	120	100	60	20	80	20	..
67. — crassipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80	60	80	80	..	160	20	..
68. — conicoides	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. — depressum	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. — ovatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
71. — pallidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	40	20	..	40	..	..
73. — sp.	..	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Phalacroma Rudgei	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Protoceratium reticulatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	20	20	..	..	..	..	..
Protozoa.																						
80. Cyttarocylis denticulata	40	40	80	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica	240	180	140	80	20	..	..	..	..	..	..	..	..	..	220	300	400	340	..	20	60	..
82. Laboea conica	80	120	80	..	..	..	..	..	..	..	..	..	..	..	120	60	60	20	..	40	..	..
83. — strobila	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..
84. — spp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
85. Ptychocylis urnula	640	360	600	680	100	310	..	..	..	..	..	..	..	..	840	640	780	1120	160	180	60	..
87. Tintinnus acuminatus	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	20	..	16	..	..	..
88. Infusoria indeterminata	260	80	260	180	80	60	..	..	..	..	..	..	..	..	20	240	20	80	60	200	..	..
Crustacea.																						
89. Copepoda	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Nauplii	20	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	40	..	..	..	..	..
91. Acarina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. Ova	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Round cells	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Scales of Lepidoptera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station	Sc 10. 25/5 12. — 61°35' N. 0°47' E.								Sc 9. 25/5 12. — 61°34' N. 2°04' E.									
Depth (m.)	0	10	20	30	50	70	100	200	0	10	20	30	50	70	100	200	300	380
Temperature (° C.)	9.00	9.03	8.93	8.89	8.83	8.73	8.59	8.47	8.69	8.88	8.95	8.64	8.44	8.24	8.06	7.47	6.82	5.81
Salinity (‰)	35.35	35.32	35.32	35.32	35.32	35.32	35.32	35.32	35.07	35.25	35.25	35.25	35.25	35.25	35.25	35.25	35.25	35.25
Density	27.41	27.38	27.40	27.40	27.41	27.43	27.44	27.51	27.24	27.35	27.33	27.38	27.42	27.45	27.48	27.62	27.56	27.7[illegible]
Quantity (cc) examined	50(10)	50(10)	50(10)	50(10)	50	50	50	50	50(5)	50(5)	50(5)	50(10)	50(10)	50	50	50	50	50
Diatomaceae.																		
3. Asterionella sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asteromphalus heptactis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	..	..	60	..	..	40	..	..	..	..
6. — boreale	100	20	..	..	20	20	..	..	..	..	20	140	..	..	..	..	..	..
7. — constrictum	..	40	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. — compressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — criophilum	..	..	80	80	140	..	..	..	780	460	1280	..	..	..	..	..	..	..
11. — debile	180	140	80	..	..	..	..	..	660	1300	3240	760	160	180	..	..	..	..
12. — decipiens	..	..	..	..	..	..	..	..	100	100	140	..	..	20	..	..	..	..
13. — densum	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. — diadema	..	..	..	..	..	..	..	..	80	360	220	120	..	..	..	..	..	..
15. — laciniosum	..	..	..	100	40	60	..	..	..	200	220	..	..	..	..	..	..	..
16. — pelagicum	160	80	..	120	..	..	..	..	..	..	..	200	220	60	..	..	..	..
17. — scolopendra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Corethron criophilum	..	..	220	..	..	..	..	..	7240	7280	12860	..	..	..	..	..	..	..
20. Coscinodiscus curvatulus	..	..	20	..	..	..	..	..	..	..	..	920	..	..	..	..	..	..
21. — excentricus	..	..	..	..	..	..	..	..	..	..	..	80	60	..	..	..	..	..
22. — lineatus	..	..	..	..	..	..	60	40	..	20	40	260	180	200	20	20	..	..
23. — marginatus	..	..	..	..	..	..	..	40	..	..	20	20	..	..	..	..	..	..
25. — sp.	..	..	..	40	20	..	..	20	..	..	..	..	..	..	..	..	..	..
26. Eucampia groenlandica	20	80	20	20	..	..	..	80	..	..	..	..	..	..	..	..	..	..
28. Navicula sp.	20	20	60	..	..	..	..	..	..	40	80	40	..	..	..	..	..	..
29. Nitzschia Closterium	..	..	20	20	..	..	..	..	..	..	40	40	..	..	..	..	..	..
30. — delicatissima	360300	321300	107100	74100	7680	2380	410	40	447200	1,383600	701200	1,308100	128500	18340	3760	40	240	620
31. — seriata	140	..	..	..	..	..	..	..	240	1980	140	140	..	80	..	..	..	..
32. Paralia sulcata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	280
33. Pleurosigma sp.	..	..	180	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
35. Rhizosolenia fragilissima	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
36. — obtusa	..	..	..	..	..	..	..	..	100	140	..	..	100	..	..	..	..	..
37. — semispina	..	..	..	..	..	..	..	..	20	520	180	180	20	20	..	..	..	..
38. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Thalassiosira gravida	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40. — sp.	..	40	..	..	..	..	..	..	..	400	440	..	..	..	..	..	..	..
41. Diatomaceae indeterminatae	1580	960	600	400	..	..	..	..	1520	7160	15480	2700	1180	80	100	20	20	..
Silicoflagellata.																		
43. Distephanus speculum	20	80	20	20	..	..	..	..	..	80	20	..	..	60	40	..	..	..
Peridiniales.																		
44. Amphidinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45. Ceratium bucephalum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46. — furca	..	..	..	..	..	..	..	..	..	..	20	60	..	..	..	..	..	..
47. — fusus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. — intermedium	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..	..	..	..
49. — lineatum	..	..	..	20	..	..	..	..	20	..	..	..	..	..	..	..	..	..
50. — longipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. — tripos	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..
53. Dinophysis acuminata	..	..	20	..	..	..	..	..	340	..	80	..	..	..	..	..	..	..
54. — acuta	..	20	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
55. — norvegica	120	..	..	..	..	..	..	..	500	20	120	..	..	..	..	..	..	..
56. — rotundata	..	..	..	..	..	..	..	..	40	20	60	..	..	..	..	..	..	..
57. Diplopsalis lenticula	..	..	20	40	..	..	..	..	20	..	..	..	..	..	..	..	..	..
58. Exuviaella baltica	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..
59. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — danicum	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..	..	..	..
61. — sp.	260	80	20	..	..	..	..	..	360	240	20	..	120	40	..	..	..	..
62. Gonyaulax spinifera	60	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Gymnodinium Lohmanni	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Peridinium cerasus	100	60	..	..	..	..	..	..	3520	320	320	40	..	..	..	..	..	..
67. — crassipes	660	640	140	100	20	20	..	..	1860	300	320	60	400	100	..	20	20	..
68. — conicoides	..	20	..	..	..	..	..	..	460	220	200	420	340	..	20	..	..	..
69. — depressum	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
70. — ovatum	..	..	..	..	..	..	..	..	100	40	..	..	..	..	..	..	..	..
71. — pallidum	..	..	..	..	..	..	..	..	60	..	20	..	..	..	..	..	..	..
73. — sp.	20	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
74. Phalacroma Rudgei	80	..	..	..	..	..	..	..	80	..	20	..	..	..	..	..	..	..
76. Protoceratium reticulatum	..	..	..	..	..	..	..	..	640	40	80	..	..	..	..	..	..	..
Protozoa.																		
80. Cyttarocylis denticulata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica	660	320	120	140	20	20	40	..	1740	160	140	180	100	160	..	..	..	..
82. Laboea conica	640	680	400	1180	..	..	..	..	940	80	140	20	..	40	..	..	..	..
83. — strobila	440	140	80	40	..	..	..	..	1760	40	..	..	..	..	..	20	..	..
84. — spp.	100	100	..	..	..	..	..	..	160	40	..	20	..	..	..	..	..	..
85. Ptychocylis urnula	760	780	620	2320	..	100	..	..	20	20	200	200	20	..	20	..	..	..
87. Tintinnus acuminatus	..	20	20	20	..	..	..	..	120	..	..	..	..	..	..	..	..	..
88. Infusoria indeterminata	2300	1820	2260	9500	400	340	100	40	4420	640	1460	360	120	80	..	140	..	40
Crustacea.																		
89. Copepoda	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. Nauplii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
91. Acarina	20	..	..	..	..	..	..	..	20	..	..	..	..	16	..	..	..	..
92. Cystae	..	..	..	..	..	..	..	..	40	20	40	..	40	..	..	..	..	..
93. Ova	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
94. Round cells	20	20	..	..	..	..	..	..	..	..	60	20	..	..	20	..	..	..
96. Scales of Lepidoptera	..	..	..	..	..	..	..	..	60	80	20	..	..	..	..	..	..	..

Station	Sc 8. 26/5 12. — 61°30' N. 3°08' E.										Sc 8 A. 26/5 12. — 61°35' [illegible]					
Depth (m.)	0	10	20	30	50	70	100	200	300	330	0	10	20	30	50	70
Temperature (° C.)	7.70	7.75	7.75	7.02	5.93	6.12	6.42	7.08	6.25	5.86	7.60	7.75	7.73	6.25	6.14	6.05
Salinity (‰)	33.19	33.19	33.19	33.48	34.42	34.76	34.96	35.19	35.10	35.10	32.83	32.83	32.81	33.64	34.58	34.74
Density	25.81	25.81	25.24	25.11	27.37	27.48	27.51	27.62	27.67	27.67	25.65	25.63	25.64	26.47	27.23	27.37
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.																
3. Asterionella sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asteromphalus heptactis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Chaetoceras atlanticum	..	40	20	20	20	..	..	..	..	20	..	..	..	..	..	..
6–29. (no entries)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — delicatissima	140	..	..	..	..	20	40	..	20	..	40	..	..	..	..	..
31. — seriata	..	..	..	..	..	..	..	..	80	..	1300	..	20	..	..	..
32. Paralia sulcata	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
33. Pleurosigma sp.	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..	..
35. Rhizosolenia fragilissima	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
36.–43. (no entries)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																
48. — intermedium	..	..	20	..	..	..	..	..	..	..	..	20	..	..	..	..
49. — lineatum	120	80	80	120	..	..	..	20	..	..	120	100	200	80	..	..
50. — longipes	40	40	80	60	..	..	..	..	..	..	180	100	140	140	..	..
52. — tripos	40	20	20	60	20	..	..	..	..	..	20	..	20	20	..	..
54. — acuta	600	600	500	220	..	..	..	..	..	..	900	540	660	680	..	..
55. — norvegica	160	120	160	20	..	..	..	..	..	..	180	220	380	380	..	20
56. — rotundata	..	..	20	..	..	..	..	..	..	..	20	40	20	..	20	..
57. Diplopsalis lenticula	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
58. Exuviaella baltica	..	60	..	..	..	..	..	..	..	..	20	100	60	..	20	60
59. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	60	..	..	..	..
60. — danicum	..	..	..	..	..	40	..	..	..	..	..	20	..	..	..	60
66. Peridinium cerasus	20	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
69. — depressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
70. — ovatum	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	40
73. — sp.	60	..	40	..	..	..	..	..	..	..	20	60	40	..	20	..
74. Phalacroma Rudgei	20	..	..	..	..	..	20	..	..	..	..	20	..	..	..	..
Protozoa.																
85. Ptychocylis urnula	40	20	20	..	..	..	..	..	..	..	140	60	100	..	..	..
87. Tintinnus acuminatus	60	40	60	..	..	..	..	..	..	..	60	80	40	..	..	..
88. Infusoria indeterminata	40	60	160	60	20	20	..	20	..	..	140	260	180	60	20	20
Crustacea.																
90. Nauplii	40	20	20	..	60	20	..	..	120	..	220	200	60	20	..	120
92. Cystae	40	20	60	..	..	..	..	..	..	..	40	..	20	40	..	..
93. Ova	..	..	..	60	20	..	..	..	..	..	..	20	..	..	..	..
94. Round cells	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
96. Scales of Lepidoptera	..	20	20	..	..	..	..	..	..	..	20	..	..	20	..	..

Also observed: 1. Achnanthes sp. Sc 9, 0 m. 40. 2. Actinocyclus Ehrenbergii Sc 8 A, 50 m. 20. 10. Chaetoceras curvisetum Sc 11, 50 m. 200. 18. Climacodium Frauenfeldianum Sc 11 A, 30 m. 40. 24. Coscinodiscus radiatus Sc 11 A, 1100 m. 80. 27. Hyalodiscus stelliger Sc 9, 20 m. 20. 34. Rhizosolenia faeroensis Sc 10, 50 m. 20. 42. Dictyocha fibula Sc 11, [illegible] 72. Peridinium Steinii Sc 8 A, 20 m. 20. 75. Podolampas palmipes Sc 11, 70 m. 40. 77. Codonella excandata (?) Sc 11 A, 70 m. 20. 78. Codonella pusilla Sc 8, 70 m. 20. 79. Codonella sp. Sc 8 B, 100 m. 20. 86. Tintinnopsis beroidea Sc 11 A 700 m. 20. 95. Larvae ind[illegible]

Station	Sc 38 II. 10/5 12. — 59°44' N. 0°56' E.							Sc 38 I. 10/5 12. — 59°54' N. 0°2' E.							
Depth (metres).	10	20	30	50	70	100	118	0	10	20	30	50	70	100	145
Temperature (° C.).	7.66	7.66	7.66	7.53	6.72	6.50	6.48	8.10	8.01	7.91	7.75	7.61	6.92	6.62	6.62
Salinity. (‰).	35.10	35.10	35.10	35.16	35.21	35.21	35.19	35.21	35.21	35.21	35.21	35.23	35.23	35.23	35.23
Density.	27.42	27.42	27.42	27.48	27.65	27.67	27.65	27.44	27.46	27.47	27.50	27.53	27.63	27.67	27.67
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.															
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
3. Actinoptychus undulatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asterionella japonica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacterosira fragilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii.	40	..	40	..	20	..	..	..	..	..	..	..	..	..	..
8. Chaetoceras atlanticum.	..	..	..	..	..	..	40	60	..	..	..	20	..	..	..
9. — boreale.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	80
12. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	60	..	60
14. — debile.	340	..	..	180	60	3180	9580	700	360	400	440	440	320	80	380
15. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	60	400	200
16. — decipiens.	..	..	..	..	..	120	280	..	..	20	..	..	160	80	120
17. — densum.	620	480	120	800	1400	2100	2680	1680	1200	1000	620	1420	700	640	1140
18. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum.	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
23. — scolopendra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae.	..	..	..	..	..	..	..	..	..	..	..	..	220	680	..
27. Corethron criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Coscinodiscus concinnus.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
29. — curvatulus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
31. — lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33. — radiatus.	..	..	..	..	..	..	..	..	..	..	..	..	40	..	20
34. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Eucampia groenlandica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Lauderia borealis.	200	..	..	160	20	..	40	160	140	..	..	..	300	..	80
40. Leptocylindrus danicus.	80	140	280	280	80	..	..	..	..	..	..	..	..	..	80
41. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..
43. — sp.	..	..	..	20	..	20	20	..	..	..	..	..	..	..	..
44. Nitzschia Closterium.	100	420	640	680	420	..	..	..	..	..	..	..	..	20	40
45. — delicatissima.	880	1300	640	1540	1000	..	40	..	..	..	..	..	..	40	140
46. — seriata.	20	..	..	20	20	..	..	..	220	80	..	160	60	..	..
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata.	..	..	..	..	..	160	120	..	..	..	..	..	..	280	..
49. Pleurosigma angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata.	40	..	20	80	..	..	..	..	..	30	..	10	10	10	..
53. — faeroensis.	..	..	80	40	20	..	..	1100	1880	2000	1980	1120	140	..	40
54. — fragilissima.	80	140	600	160	..	..	100	740	1020	1780	500	220	..	..	..
55. — hiemalis.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
56. — obtusa.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
57. — semispina.	..	140	140	200	360	320	2040	450	410	520	90	190	700	1320	2530
58. — Shrubsolei.	..	..	..	20	..	..	..	..	80	110	10	60	40	50	..
59. — Stolterfothii.	..	..	..	..	..	..	160	..	..	..	..	..	..	..	..
60. — styliformis.	..	20	60	..	40	140	380	100	..	..	10	..	20	..	110
61. Sceletonema costatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata.	..	..	..	..	..	..	..	220	820	440	540	260	200	100	240
63. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40
64. — gravida.	500	1320	1120	1120	480	160	400	..	120	..	..	..	760	1520	2440
65. — Nordenskiöldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides.	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..
68. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40
Silicoflagellata.															
69. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
Peridiniales.															
71. Ceratium bucephalum.	..	..	..	..	..	..	..	20	..	20	..	..	..	..	..
72. — furca.	120	120	160	..	..	..	..	100	300	120	..	..	..	..	..
73. — fusus.	20	20	160	..	..	..	..	40	..	20	..	..	..	..	..
74. — intermedium.	..	40	40	..	..	..	..	60	..	..	40	..	..	..	..
75. — lineatum.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
76. — longipes.	40	60	200	20	..	..	..	140	80	60	..	..	..	..	..

Station	Sc 5A. 10/5 12. 60°05' N. 0°48' W.							Sc 5. 9/6 12. — 59°40' N. 1°14' W.						
Depth (metres).	0	10	20	30	50	70	115	0	10	20	30	50	70	100[1]
Temperature (° C.).	8.09	8.14	8.01	7.92	7.64	7.56	7.23	8.00	8.19	8.04	8.04	8.04	8.04	7.96
Salinity. (‰).	35.16	35.16	35.16	35.21	35.21	35.23	35.25	35.14	35.14	35.14	35.14	35.14	35.14	35.12
Density.	27.32	27.39	27.41	27.47	27.52	27.53	27.60	27.41	27.38	27.41	27.41	27.41	27.41	27.39
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.														
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
4. Asterionella japonica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacterosira fragilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii.	..	..	..	..	..	..	..	..	20	..	20	360	140	..
8. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum.	..	..	60	80	..	..	..	..	..	..	..	..	..	..
12. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — criophilum.	..	..	..	..	..	..	..	..	..	20	40	200	..	..
14. — debile.	680	920	80	..	..	..	360	80	..	360	320	180	..	..
15. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — decipiens.	100	..	320	..	40	..	300	..	..	..	..	..	140	..
17. — densum.	20	300	460	240	..	..	140	..	..	..	..	..	..	..
18. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra.	..	..	..	..	..	..	..	..	..	..	..	120	..	..
24. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum.	..	..	60	..	..	..	..	..	..	..	20	..	..	..
28. Coscinodiscus concinnus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus.	..	..	..	..	..	40	..	..	..	..	..	..	..	..
31. — lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus.	..	..	20	..	20	..	..	20	40	..	..	..	..	..
33. — radiatus.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
34. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Eucampia groenlandica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Lauderia borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — sp.	..	..	..	..	..	..	..	..	..	60	20	..	20	..
44. Nitzschia Closterium.	..	20	..	..	..	20	40	..	20	20	..	..	..	..
45. — delicatissima.	40	20	..	..	..	40	180	80	60	40	100	40	160	..
46. — seriata.	..	..	..	..	..	..	..	60	..	..	..	..	60	..
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata.	..	..	140	..	300	120	1340	200	..	..	140	380	40	..
49. Pleurosigma angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. — faeroensis.	..	..	580	..	..	..	200	1100	960	1580	2180	3440	2300	..
54. — fragilissima.	..	..	..	..	..	..	..	40	..	40	20	280	240	..
55. — hiemalis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — semispina.	..	..	..	..	..	..	240	..	..	..	..	..	..	..
58. — Shrubsolei.	..	..	..	..	..	..	..	..	..	..	..	..	160	..
59. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — styliformis.	..	..	..	..	..	..	740	..	..	..	60	..	80	..
61. Sceletonema costatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — gravida.	..	..	..	..	..	..	40	..	..	..	60	280	160	..
65. — Nordenskiöldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.														
69. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum.	..	..	..	..	..	..	20	..	..	..	..	..	20	..
Peridiniales.														
71. Ceratium bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. — furca.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. — fusus.	..	..	..	..	..	..	..	..	20	..	..	..	20	..
74. — intermedium.	..	..	..	..	..	..	..	..	..	..	20	..	..	..
75. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. — longipes.	..	..	..	..	..	..	..	..	..	20	..	..	..	..

Station	Sc 4. 8/6 12. — 59°26' N. 1°20' W.							Sc 3. 8/6 12. — 59°10' N. 1°27' W.						
Depth (metres).	0	10	20	30	50	70	105	0	10	20	30	50	70	119
Temperature (° C.).	8.40	8.63	8.59	8.59	8.08	8.03	7.25	8.60	8.75	8.75	8.41	8.21	7.56	7.44
Salinity. (‰).	35.16	35.16	35.16	35.16	35.16	35.17	35.19	35.21	35.19	35.19	35.16	35.16	35.16	35.16
Density.	27.35	27.32	27.32	27.32	27.40	27.43	27.55	27.37	27.33	27.32	27.35	27.38	27.48	27.50
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.														
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asterionella japonica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	20	..	20	20	..	40	20	..
6. Bacterosira fragilis.	..	..	..	..	..	..	..	..	100	..	..	..	..	..
7. Cerataulina Bergonii.	..	100	..	..	..	..	..	20	60	20	..	..	..	..
8. Chaetoceras atlanticum.	..	..	..	..	..	..	..	20	..	..	..	..	..	..
9. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum.	..	..	..	..	..	..	..	..	..	60	..	..	..	..
12. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — criophilum.	..	..	..	..	120	80	80	..	..	..	..	..	..	..
14. — debile.	..	..	..	..	120	20	420	..	..	..	120	..	..	140
15. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — decipiens.	200	380	280	180	140	..	180	40	..	140	..	80	80	80
17. — densum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	120	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	40	..
28. Coscinodiscus concinnus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus.	..	..	..	..	..	..	40	..	..	..	..	..	..	..
31. — lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus.	..	..	..	..	..	40	40	..	..	..	..	20	20	20
33. — radiatus.	..	..	..	..	..	..	..	..	..	..	..	..	20	..
34. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Eucampia groenlandica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Lauderia borealis.	..	..	..	..	..	..	60	..	..	..	..	..	..	..
40. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — sp.	..	..	..	..	..	20	20	..	..	..	..	..	..	..
44. Nitzschia Closterium.	..	..	..	400	20	..	..	..	..	..	..	..	..	..
45. — delicatissima.	100	20	60	400	20	..	20	120	380	..	..	..	..	..
46. — seriata.	..	..	..	..	..	..	120	60	..	..	..	160	20	40
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata.	..	..	..	..	..	..	900	..	..	..	..	300	480	920
49. Pleurosigma angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata.	..	..	..	..	..	..	..	80	140	80	..	..	..	..
53. — faeroensis.	660	200	560	320	1920	320	240	1040	360	600	820	1540	560	160
54. — fragilissima.	..	..	..	20	40	..	..	..	..	..	..	..	..	..
55. — hiemalis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa.	..	..	20	20	..	..	..	..	..	..	20	60	20	..
57. — semispina.	..	..	..	..	..	..	20	..	..	20	..	..	..	..
58. — Shrubsolei.	..	..	..	..	..	..	..	..	20	..	..	..	..	..
59. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	20	..	..
60. — styliformis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. Sceletonema costatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — gravida.	80	140	..	40	..	..	..	380	40	200	100	300	20	60
65. — Nordenskiöldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.														
69. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.														
71. Ceratium bucephalum.	..	20	..	20	..	..	..	..	..	..	..	20	..	..
72. — furca.	40	60	20	40	..	..	..	60	40	60	..	40	..	..
73. — fusus.	..	40	..	40	20	..	..	60	20	20	40	[illegible]	..	..
74. — intermedium.	80	60	20	40	20	..	..	..	20	60	..	20	[illegible]	..
75. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	[illegible]	..	..
76. — longipes.	220	80	140	60	20	..	..	80	120	120	40	..	..	..

Station	Sc 2. 8/6 12. — 58°30' N. 1°46' W.							Sc 26. 8/6 12. — 58°09' N. 1°50' W.							
Depth (metres).	0	10	20	30	50	70	100	0	10	20	30	50	70	100	130
Temperature (° C.).	8.90	8.92	8.92	8.58	7.87	7.74	7.24	9.20	9.09	9.01	8.58	7.82	7.63	7.28	7.22
Salinity. (‰).	35.01	35.01	35.01	35.01	35.01	35.03	35.05	34.78	34.78	34.85	34.85	34.88	34.96	35.01	35.01
Density.	27.17	27.17	27.17	27.21	27.32	27.36	27.44	26.94	26.95	27.02	27.07	27.23	27.32	27.41	27.42
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Diatomaceae.															
1. Actinocyclus Ehrenbergii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asterionella japonica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
6. Bacterosira fragilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Chaetoceras atlanticum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — boreale.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — compressum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — criophilum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14. — debile.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
17. — densum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — diadema.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — teres.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	80	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
28. Coscinodiscus concinnus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
31. — lineatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..
32. — marginatus.	..	20	..	..	..	..	20	..	..	..	..	20	..	20	40
33. — radiatus.	..	..	..	..	..	..	40	..	..	..	..	..	..	20	..
34. — subtilis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Eucampia groenlandica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
39. Lauderia borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40. Leptocylindrus danicus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41. — — , sporae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
44. Nitzschia Closterium.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
45. — delicatissima.	..	..	40	60	..	..	..	..	..	..	..	..	..	..	..
46. — seriata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata.	..	..	..	..	240	..	3120	..	..	..	..	580	460	2460	3220
49. Pleurosigma angulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. — faeroensis.	100	820	620	100	..	..	..	..	..	..	..	..	..	..	40
54. — fragilissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
55. — hiemalis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — semispina.	..	..	..	60	..	..	..	..	..	..	..	..	..	..	..
58. — Shrubsolei.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. — Stolterfothii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — styliformis.	..	..	160	..	..	..	..	..	..	..	..	..	..	..	..
61. Sceletonema costatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — gravida.	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
65. — Nordenskiöldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides.	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..
68. Diatomaceae indeterminatae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.															
69. Dictyocha fibula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.															
71. Ceratium bucephalum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. — furca.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
73. — fusus.	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. — intermedium.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
75. — lineatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. — longipes.	100	40	..	..	..	..	..	..	..	20	..	..	..	..	..

[1]) Bottle broken — contents lost.

Table XI. North Sea. — Southern Section. (Scottish Investigations). May and June 1912.

	Sc 38. 15/5 12. — 58°34′ N. 0°47′ E.								Sc 38 A. 15/5 12. — 58°42′ N. 1°44′ E.							Sc 38 B. 15/5 12. — 58°50′ N. 2°40′ E.							Sc 38 C. 15/5 12. — 59°3′ N. 4°6′ E.										Sc 38 D. 16/5 12. — 59°9′ N. 4°47′ E.										Sc 38 E. 18/5 12. — 59°16′ N. 3°41′ E.										Sc 38 F. 18/5 12. — 59°25′ N. 2°48′ E.								Sc 38 G. 19/5 12. 59°35′ N. 1°51′ E.					
30	0	10	20	30	50	70	100	140	0	10	20	30	50	70	105	0	10	20	30	50	70	110	0	10	20	30	50	70	100	150	200	285	0	10	20	30	50	70	100	150	200	270	0	10	20	30	50	70	100	150	200	260	0	10	20	30	50	70	100	120	0	10	20	30	50	70
.62	7.80	7.89	7.83	7.56	7.59	6.75	6.68	6.62	7.80	7.72	7.63	7.51	7.43	6.72	6.62	7.50	7.55	7.54	7.48	[illegible]	6.46	6.34	6.30	6.55	6.54	5.12	5.03	5.55	5.58	6.03	6.17	6.25	6.90	7.03	6.52	6.21	5.14	5.72	5.46	5.72	5.85	6.14	7.20	7.13	6.51	6.24	7.11	7.53	8.04	7.94	7.76	7.17	7.60	7.63	7.58	7.17	7.85	7.82	7.64	7.54	7.50	7.62	7.61	7.54	7.34	6.9
.17	34.96	34.94	34.94	34.94	34.94	34.97	35.01	35.03	35.01	35.03	35.03	35.03	35.05	35.07	35.08	35.17	35.17	35.17	35.17	35.17	35.17	35.19	33.35	33.33	33.37	34.02	34.63	34.78	34.87	35.03	35.12	35.12	33.06	33.06	33.28	33.39	34.43	34.72	34.83	34.97	35.08	35.12	33.04	33.04	33.10	33.49	35.01	36.16	35.30	35.30	35.30	35.28	33.93	33.95	33.98	34.61	35.26	35.26	35.26	35.28	34.34	34.34	34.34	34.36	35.19	35.1
.63	27.29	27.26	27.28	27.30	27.31	27.45	27.49	27.52	27.34	27.36	27.38	27.39	27.41	27.53	27.56	27.50	27.50	27.50	27.50	27.55	27.64	27.68	26.23	26.18	26.21	26.91	27.41	27.45	27.53	27.60	27.64	27.63	25.92	25.91	26.14	26.27	27.23	27.39	27.50	27.60	27.65	27.66	25.87	25.89	26.00	26.35	27.44	27.48	27.53	27.54	27.56	27.63	26.51	26.53	26.55	27.11	27.52	27.53	27.56	27.58	26.85	26.84	26.84	26.86	27.54	27.6
0	50	50	50	50	50	100	100	50	50	50	50	50	50	50	50	50(10)	50	50	50	50	50	50(10)	50	50	50	50	50	50	50	50	50	50	50(10)	50(10)	50(10)	50(10)	50	50	50	50	50	50	50(100)	50(100)	50(100)	50(100)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50(100)	50(100)	50(100)	50(100)	50	50
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..	7360	9600	11880	6640	4340	160	100	300	1980	660	800	340	1460	1500	1100	1150	1360	1160	1120	940	1060	1020	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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Table XI. North Sea. — Southern Section. May and June 1912.

Station	Sc 28. 14/5 12. — 57°53' N. 2°48' W.			Sc 30. 14/5 12. — 58°00' N. 2°54' W.					Sc 32. 14/5 12. — 58°08' N. 2°00' W.						
Depth (metres)	0	10	20	0	10	20	30	50	0	10	20	30	50	70	85
Temperature (° C.)	8.70	8.59	8.23	8.80	8.14	7.95	7.93	7.72	8.20	8.28	7.98	7.91	7.53	7.44	7.44
Salinity (‰)	34.38	34.40	34.40	34.56	34.54	34.54	34.54	34.54	34.85	34.83	34.83	34.83	34.83	34.92	34.92
Density	26.70	26.72	26.79	26.82	26.92	26.95	26.95	26.98	27.14	27.11	27.16	27.17	27.23	27.31	27.31
Quantity (cc) examined	50	50	50	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50(10)	50	50	50
Diatomaceae.															
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asterionella japonica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..
6. Bacterosira fragilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii	..	..	..	..	..	..	..	..	40	..	..	40	..	..	..
8. Chaetoceras atlanticum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. — boreale	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — compressum	580	1920	..	..	4600	3760	5960	..	80	..	..	320	..	..	..
13. — criophilum	..	..	..	..	..	20	40	..	..	..	..	..	..	..	..
14. — debile	40	740	..	4160	8360	4580	7340	2080	24520	22140	19720	12860	240	60	40
15. — —, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — decipiens	140	220	..	100	180	180	340	400	1740	1300	1260	2360	1420	160	440
17. — densum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. — diadema	..	..	..	..	..	..	540	280	..	..	..	..	..	..	..
19. — —, sporae	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum	..	..	..	160	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum	..	..	..	520	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra	..	..	..	..	..	..	..	..	..	140	140	..	..	..	..
24. — teres	..	..	..	..	60	..	..	..	60	80	100	..	..	..	..
25. — sp.	..	..	80	..	..	..	540	300	..	..	..	..	..	..	..
26. — sp., sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Coscinodiscus concinnus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
30. — excentricus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31. — lineatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus	20	..	20	20	40	..	20	40	..	20	20	..	40	60	60
33. — radiatus	..	..	..	..	..	20	..	..	..	..	..	..	20	40	40
34. — subtilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii	20	..	..	20	..	140	20	..	60	..	..	..	..	..	..
37. Eucampia groenlandica	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..
38. Hyalodiscus stelliger	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
39. Lauderia borealis	..	..	..	..	100	..	..	..	..	..	..	..	..	..	..
40. Leptocylindrus danicus	..	40	100	..	100	..	..	100	360	140	180	60	..	..	..
41. — —, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — sp.	..	..	..	60	160	100	200	140	..	20	40	80	40	60	80
44. Nitzschia Closterium	..	..	..	..	60	120	20	20	..	20	20	20	..	..	..
45. — delicatissima	20	60	..	20	..	..	..	..	780	940	280	460	40	..	..
46. — seriata	20	..	20	40	..	..	..	..	80	..	..	60	..	..	..
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata	..	..	..	60	340	200	360	600	560	220	280	80	180	1420	1720
49. Pleurosigma angulatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	20	..	..	..	..	..	..	80	..	..	40
51. Rhaphoneis amphiceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. — faeroeensis	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
54. — fragilissima	..	..	..	360	300	220	420	40	320	580	700	1100	120	..	..
55. — hiemalis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — semispina	..	..	..	..	..	40	40	..	240	460	100	320	..	..	..
58. — Shrubsolei	..	..	30	..	..	..	..	60	..	..	..	..	..	..	..
59. — Stolterfothii	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — styliformis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. Sceletonema costatum	..	..	..	..	..	..	..	220	300	100	940	340	260	..	..
62. Thalassiosira bioculata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — gravida	2180	5060	3300	92100	127600	114500	92100	34600	238600	187000	146100	14060	5900	340	1080
65. — Nordenskiöldii	..	..	..	..	..	..	..	..	392600	261200	20960	5960	..	..	..
66. Thalassiothrix longissima	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides	..	20	..	80	420	180	440	380	300	560	180	200	20	20	60
68. Diatomaceae indeterminatae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.															
69. Dictyocha fibula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum	..	40	20	20	60	..	80	20	..	..	20	..	..	..	20
Peridiniales.															
71. Ceratium bucephalum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. — furca	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. — fusus	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
74. — intermedium	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
75. — lineatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. — longipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station	Sc 34. 14/5 12. — 58°17' N. 1°3' W.						Sc 36. 15/5 12. — 58°26' N. 0°8' W.								Sc 38. 15/5 12. — 58°34' N. 0°47' E.							
Depth (metres)	0	10	20	30	50	85	0	10	20	30	50	70	100	130	0	10	20	30	50	70	100	140
Temperature (° C.)	8.30	8.34	8.21	7.82	6.93	6.94	8.00	8.02	7.76	7.65	7.05	6.62	6.62	6.62	7.80	7.89	7.83	7.56	7.59	6.75	6.68	6.62
Salinity (‰)	34.90	34.90	34.90	34.92	35.14	35.14	35.17	35.16	35.16	35.16	35.16	35.17	35.17	35.17	34.96	34.94	34.94	34.94	34.94	34.97	35.01	35.03
Density	27.17	27.17	27.19	27.26	27.56	27.56	27.43	27.41	27.44	27.46	27.55	27.63	27.63	27.63	27.29	27.26	27.28	27.30	27.31	27.45	27.49	27.52
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	100	100	50
Diatomaceae.																						
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Asterionella japonica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacterosira fragilis	..	..	..	..	..	..	200	240	240	220	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii	..	..	..	..	..	..	..	..	..	..	..	140	..	..	..	..	..	..	..	..	..	..
8. Chaetoceras atlanticum	..	..	..	..	..	..	260	240	..	20	160	100	160	60	..	..	..	..	..	..	..	..
9. — boreale	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. — cinctum, sporae	..	..	..	..	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. — constrictum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — compressum	..	..	..	..	..	..	..	160	..	..	..	..	..	40	..	..	..	..	..	..	..	..
13. — criophilum	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
14. — debile	140	300	160	..	300	200	180	280	240	420	320	780	820	2540	149500	203000	203600	110900	5600	2800	140	280
15. — —, sporae	..	..	..	60	3160	2720	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. — decipiens	..	..	..	..	80	100	260	60	40	340	260	820	860	1260	700	680	600	1000	620	120	..	..
17. — densum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	920	1320	1160	860	580	40	20	40
18. — diadema	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..
19. — —, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. — laciniosum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — teres	..	..	..	..	..	..	..	..	..	..	..	..	..	140	..	..	..	..	..	..	..	..
25. — sp.	..	60	..	..	..	..	..	..	100	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Coscinodiscus concinnus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus	..	..	..	..	..	..	..	..	..	..	..	20	..	80	..	..	..	..	..	..	..	..
31. — lineatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus	..	..	..	..	..	..	..	..	..	..	..	20	20	20	..	..	..	..	..	..	..	..
33. — radiatus	..	..	..	20	140	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34. — subtilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35. Coscinosira polychorda	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Eucampia groenlandica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Lauderia borealis	..	..	..	..	..	40	720	640	240	460	300	120	200	100	260	620	780	320	680	..	..	..
40. Leptocylindrus danicus	120	120	200	..	60	40	80	80	80	120	20	160	..	..	3380	3000	6920	1780	1860	30	30	120
41. — —, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42. Navicula distans	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43. — sp.	..	..	..	..	20	20	..	..	..	..	..	20	20	..	..	..	..	..	..	..	..	..
44. Nitzschia Closterium	..	..	..	..	..	..	1080	720	1320	2080	4600	1840	2120	720	..	..	..	..	..	..	..	..
45. — delicatissima	20	..	20	80	60	40	14120	12360	15040	15720	64600	67320	37520	30560	..	..	..	..	..	..	..	..
46. — seriata	40	20	..	..	20	..	..	..	..	..	100	60	..	..	7360	9600	11880	6640	4340	160	100	300
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata	20	..	..	100	180	1720	..	..	..	..	..	40	180	760	..	..	..	..	..	..	..	..
49. Pleurosigma angulatum	..	..	..	..	20	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. — faeroeensis	..	..	140	40	..	..	500	500	1620	380	60	20	..	40	460	620	640	1000	320	10	..	..
54. — fragilissima	..	..	..	..	..	..	860	460	120	420	180	..	..	..	..	..	..	..	..	..	..	..
55. — hiemalis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — semispina	..	10	30	10	..	60	2200	1960	860	1040	2000	2860	1600	3540	740	1050	700	1020	1180	140	80	40
58. — Shrubsolei	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
59. — Stolterfothii	..	..	..	..	..	..	..	140	..	60	..	..	..	..	..	..	..	..	..	..	..	..
60. — styliformis	..	..	..	..	..	..	160	..	40	220	440	40	..	..	..	100	70	20	90	..	..	..
61. Sceletonema costatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. — gravida	1020	600	500	100	2340	2580	520	500	80	240	420	480	400	580	..	..	..	..	..	..	..	..
65. — Nordenskiöldii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides	20	..	..	..	80	140	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Diatomaceae indeterminatae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.																						
69. Dictyocha fibula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum	20	..	..	20	..	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peridiniales.																						
71. Ceratium bucephalum	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	20	..	..	..	..	..	..
72. — furca	..	20	..	..	..	..	160	40	20	..	..	..	..	..	..	20	..	..	..	..	..	..
73. — fusus	..	..	40	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	20
74. — intermedium	..	..	..	..	..	..	40	20	40	..	..	..	..	..	..	..	..	..	..	..	..	..
75. — lineatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. — longipes	..	..	..	..	..	..	20	80	20	20	..	..	..	..	20	..	..	..	..	..	..	..

Station	Sc 38 A. 15/5 12. — 58°42' N. 1°44' E.							Sc 38 B. 15/5 12. — 58°50' N. 2°40' E.							Sc 38 C. 15/5 12. — 59°3' N. …						
Depth (metres)	0	10	20	30	50	70	105	0	10	20	30	50	70	110	0	10	20	30	50	70	1[illegible]
Temperature (° C.)	7.80	7.72	7.63	7.51	7.43	6.72	6.62	7.50	7.55	7.54	7.48	7.2[illegible]	6.46	6.31	6.30	6.55	6.54	5.12	5.03	5.55	5[illegible]
Salinity (‰)	35.01	35.03	35.03	35.03	35.05	35.07	35.08	35.17	35.17	35.17	35.17	35.17	35.17	35.19	33.35	33.33	33.37	34.02	34.63	34.78	34[illegible]
Density	27.34	27.36	27.38	27.39	27.41	27.53	27.56	27.50	27.50	27.50	27.50	27.55	27.61	27.68	26.23	26.18	26.21	26.91	27.41	27.45	27[illegible]
Quantity (cc) examined	50	50	50	50	50	50	50	50(10)	50	50	50	50	50	50(10)	50	50	50	50	50	50	5[illegible]
Diatomaceae.																					
1. Actinocyclus Ehrenbergii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Actinoptychus undulatus	..	..	..	..	..	..	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..
4. Asterionella japonica	..	..	..	..	..	..	..	20	60	140	..	..	..	..	..	..	..	..	..	..	..
5. — sp.	..	..	..	..	..	120	140	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Bacterosira fragilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Cerataulina Bergonii	..	..	..	..	..	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Chaetoceras atlanticum	..	..	..	..	..	..	..	160	..	160	..	60	..	60	..	..	..	..	..	..	..
9. — boreale	..	..	..	..	..	..	..	..	20	40	..	..	60	40	..	..	..	..	..	..	..
10. — cinctum, sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	700	..	..	..	..	..	..	..
11. — constrictum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. — compressum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. — criophilum	120	260	..	..	..	..	..	20	..	..	..	40	..	..	..	..	..	..	..	..	..
14. — debile	9560	6340	1020	1820	12620	4060	5300	18800	18700	21940	28460	18440	3220	..	..	..	..	..	..	..	2[illegible]
15. — —, sporae	..	..	..	..	..	..	..	300	640	760	1020	320	13060	427000	..	..	..	..	..	..	..
16. — decipiens	520	300	20	..	300	200	20	80	40	60	120	620	940	360	..	..	..	..	..	..	..
17. — densum	..	..	..	20	280	60	..	80	40	100	..	20	..	60	..	..	..	..	..	..	..
18. — diadema	60	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. — —, sporae	..	..	..	..	..	..	..	..	..	20	40	..	60	1220	..	..	..	..	..	..	..
20. — laciniosum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. — pelagicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. — Schüttii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. — scolopendra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. — teres	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. — sp., sporae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Corethron criophilum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Coscinodiscus concinnus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. — curvatulus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. — excentricus	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..
31. — lineatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. — marginatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33. — radiatus	..	..	..	..	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34. — subtilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	20	..
35. Coscinosira polychorda	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Ditylium Brightwellii	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
37. Eucampia groenlandica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38. Hyalodiscus stelliger	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39. Lauderia borealis	300	120	..	..	520	..	..	460	640	140	400	1020	560	..	..	..	..	..	..	..	..
40. Leptocylindrus danicus	4800	2540	920	920	1440	920	100	1560	1280	900	2480	1280	60	200	81000	105250	88000	1040	..	..	..
41. — —, sporae	..	..	..	..	..	..	..	..	..	..	..	..	120	1500	..	..	..	..	20	220	40
42. Navicula distans	..	..	..	..	..	..	..	..	..	..	..	..	20	40	..	..	..	..	20	..	..
43. — sp.	..	..	..	..	20	..	80	..	20	..	20	..	40	..	..	..	..	..	20	..	..
44. Nitzschia Closterium	4400	3400	2080	720	2740	1980	320	20	40	..	220	80	40	..	..	..	..	..	..	..	..
45. — delicatissima	14600	15000	6200	2380	5800	8400	3860	560	540	480	1160	520	320	240	..	..	..	..	..	..	..
46. — seriata	1980	660	800	340	1460	1500	1100	1150	1360	1160	1120	940	1060	1020	..	..	..	..	..	..	..
47. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48. Paralia sulcata	..	..	..	..	160	..	380	..	..	..	..	..	320	1600	..	..	..	..	..	440	60
49. Pleurosigma angulatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. — sp.	..	..	..	..	..	20	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..
51. Rhaphoneis amphiceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Rhizosolenia alata	..	..	..	..	..	..	..	..	90	20	80	..	..	30	..	..	..	..	..	..	..
53. — faeroeensis	..	..	..	60	320	..	..	140	..	..	40	180	..	20	460	180	40	..	..	..	..
54. — fragilissima	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
55. — hiemalis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. — obtusa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. — semispina	1380	1960	180	260	1740	880	240	1100	1230	680	1590	1310	2360	1860	..	..	..	..	..	..	..
58. — Shrubsolei	..	..	..	..	..	..	..	..	..	..	..	..	..	100	..	..	..	..	..	..	..
59. — Stolterfothii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. — styliformis	20	20	..	..	220	..	20	30	50	60	100	50	70	60	..	..	..	..	..	..	..
61. Sceletonema costatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Thalassiosira bioculata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. — decipiens	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	40	..	20
64. — gravida	1060	1340	60	340	1760	920	400	50800	54740	59440	61420	45640	49860	20860	..	..	..	..	..	20	40
65. — Nordenskiöldii	..	..	..	..	..	..	..	1100	2300	1160	840	..	..	..	..	..	..	..	..	..	..
66. Thalassiothrix longissima	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. — nitzschioides	..	..	..	..	40	..	100	..	..	..	..	..	..	420	..	..	..	..	..	40	..
68. Diatomaceae indeterminatae	..	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..
Silicoflagellata.																					
69. Dictyocha fibula	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
70. Distephanus speculum	..	..	..	..	..	..	..	..	..	..	..	..	20	60	..	..	..	..	..	..	..
Peridiniales.																					
71. Ceratium bucephalum	..	..	..	..	..	..	..	10	..	10	..	..	..	..	..	..	20	..	..	..	..
72. — furca	..	60	..	..	..	..	..	80	110	50	70	..	..	..	100	180	120	20	..	..	..
73. — fusus	20	..	..	..	40	..	..	40	..	10	20	..	..	..	180	140	160	..	..	..	..
74. — intermedium	..	40	..	..	..	..	..	10	10	..	..	..	..	..	60	20	20	..	..	..	..
75. — lineatum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	40	..	..	..	..
76. — longipes	..	40	..	..	..	..	..	40	60	10	50	..	..	..	300	400	300	40	..	..	..

Table XI. North Sea. — Southern Section. May and June 1912 (continued).

Station.	… 1°51' E.			Sc 38 H. 19/5 12. — 59°44' N. 0°56' E.								Sc 38 I. 19/5 12. — 59°54' N. 0°2' E.							
Depth (metres).	…0	70	118	0	10	20	30	50	70	100	118	0	10	20	30	50	70	100	145
Temperature (° C.).	…34	6.94	6.06	7.60	7.66	7.66	7.66	7.53	6.72	6.50	6.48	8.10	8.01	7.91	7.75	7.61	6.92	6.62	6.62
Salinity (‰).	…19	35.19	35.19	35.08	35.10	35.10	35.10	35.16	35.21	35.21	35.19	35.21	35.21	35.21	35.21	35.23	35.23	35.23	35.23
Density.	…54	27.60	27.71	27.42	27.42	27.42	27.42	27.48	27.65	27.67	27.65	27.44	27.46	27.47	27.50	27.53	27.63	27.67	27.67
Quantity (cc) examined.	…0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
(Peridiniales).																			
77. Ceratium macroceros.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78. — tripos.	..	..	..	220	100	140	140	40	..	..	..	100	60	100	120	..	..	..	..
79. Dinophysis acuminata.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
80. — acuta.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica.	..	..	20	20	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — ovum.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
83. — retundata.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diplopsalis lenticula.	…0	..	..	60	40	20	..	60	40	..	20	..	..	..	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
86. Exuviaella baica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	160
88. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — danicum.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	80	60	40	40
91. Goniodoma Ostenfeldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni.	..	..	20	60	20	20	40	..	40	120	160	..	20	..	80	120	..	..	..
95. — sp.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	120	80	60
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..
100. — conicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
101. — crassipes.	..	..	..	..	..	..	20	..	..	..	..	..	20	..	..	20	..	..	..
102. — depressum.	20	..	..	20	60	80	60	..	20	..	..	40	240	20	..	60	40	..	..
103. — geminum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. — Granii.	..	..	..	..	..	..	..	..	40	..	..	20	..	..	..	..	..	..	..
105. — oceanicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
106. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	20	..	..	..
107. — pallidum.	..	..	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..
108. — parallelum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — pellucidum.	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	20	..	..	..
110. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	..	..	..
112. — Steinii.	..	..	..	..	..	..	20	20	..	..	..	..	..	..	..	..	..	..	..
113. — spp.	..	..	..	..	..	..	..	..	..	..	..	60	..	20	20	20	40	..	20
114. Pouchetia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. Protoceratium reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
116. Pyrocystis lunula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.																			
117. Halosphaera viridis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																			
118. Cyttarocylis denticulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Laboea conica.	..	..	..	480	140	120	160	100	40	..	20	300	60	180	..	..	..	..	40
121. — strobila.	..	..	..	80	60	100	100	40	..	..	..	..	..	20	160	..	..	..	..
122. — spp.	..	20	20	..	100	20	80	120	20	140	20	20	40	120	40	60	260	260	160
123. Mesodinium sp.	..	..	20	420	1800	1580	1480	240	20	20	40	560	480	540	340	220	80	40	60
124. Ptychocylis urnula.	..	..	..	..	..	..	40	..	..	..	40	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
126. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
127. Infusoria cetera.	..	..	..	..	..	..	..	..	..	..	..	..	40	60	60	80	..	40	40
128. Radiolaria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.																			
129. Medusae.	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	..	..	..
132. Copepoda cetera.	..	..	..	..	20	20	20	..	..	20	..	..	..	..	..	..	..	..	..
133. Nauplii.	…0	..	..	..	20	40	40	60	20	..	..	60	60	..	..	..	40	..	..
134. Crustacea cetera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Fritillaria borealis.	..	..	..	..	..	..	20	20	..	..	40	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
137. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20	..	..	..
139. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
140. Ova.	…0	20	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	20	..
141. Round cells.	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Indeterminable cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs.	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station.	Sc 5 A. 19/5 12. — 60°05' N. 0°48' W.							Sc 5. 3/6 12. — 59°40' N. 1°14' W.							Sc 4. 3/6 12. — 59°26' N. 1°20' W.						
Depth (metres).	0	10	20	30	50	70	115	0	10	20	30	50	70	100[1]	0	10	20	30	50	70	105
Temperature (° C.).	8.60	8.14	8.01	7.92	7.64	7.56	7.23	8.00	8.19	8.04	8.01	8.04	8.04	7.96	8.40	8.63	8.59	8.59	8.08	8.03	7.25
Salinity (‰).	35.16	35.16	35.16	35.21	35.21	35.23	35.25	35.14	35.14	35.14	35.14	35.14	35.14	35.12	35.16	35.16	35.16	35.16	35.16	35.17	35.19
Density.	27.32	27.39	27.41	27.47	27.52	27.53	27.60	27.41	27.38	27.41	27.41	27.41	27.41	27.39	27.35	27.32	27.32	27.32	27.40	27.43	27.55
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
(Peridiniales).																					
77. Ceratium macroceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78. — tripos.	..	..	..	20	..	..	..	20	..	..	..	..	..	..	20	40	..	80	40	..	..
79. Dinophysis acuminata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. — acuta.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica.	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — ovum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — retundata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. Exuviaella baica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
91. Goniodoma Ostenfeldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
92. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni.	..	..	..	..	..	..	..	..	..	20	..	60	20	..	..	..	..	..	..	..	20
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — conicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
101. — crassipes.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	20	..	20	..	..	..
102. — depressum.	..	..	20	20	..	..	..	..	..	20	..	40	60	..	100	140	20	20	..	..	..
103. — geminum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. — Granii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105. — oceanicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
106. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — pallidum.	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	20	20	..	..
108. — parallelum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — pellucidum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — Steinii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — spp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
114. Pouchetia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. Protoceratium reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
116. Pyrocystis lunula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.																					
117. Halosphaera viridis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																					
118. Cyttarocylis denticulata.	..	..	..	..	..	..	..	20	..	40	..	40	..	..	..	..	..	..	..	..	..
119. — norvegica.	..	..	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Laboea conica.	..	..	..	..	..	..	..	..	40	20	20	20	..	..	100	60	120	40	..	..	..
121. — strobila.	..	20	..	..	..	..	..	..	..	80	..	20	..	..	200	140	120	60	..	..	..
122. — spp.	20	40	..	20	80	20	20	80	40	440	280	440	380	..	1300	2120	2980	2180	380	120	160
123. Mesodinium sp.	20	40	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Ptychocylis urnula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
126. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..
127. Infusoria cetera.	..	..	..	..	..	..	..	220	280	60	..	60	80	..	960	820	1100	460	40	60	20
128. Radiolaria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.																					
129. Medusae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Copepoda cetera.	..	..	20	..	40	..	..	..	..	20	20	..	..	..	..	20	20	..	..	..	..
133. Nauplii.	..	..	60	80	20	..	..	20	..	..	..	..	..	..	..	..	40	..	40	..	..
134. Crustacea cetera.	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Fritillaria borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae.	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
139. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Ova.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Round cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Indeterminable cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..

Station.	Sc 3. 3/6 12. — 59°10' N. 1°27' W.							Sc 2. 3/6 12. — 58°36' N. 1°46' W.							Sc 26. 3/6 12. — 58°09' N. 1°50' W.							
Depth (metres).	0	10	20	30	50	70	110	0	10	20	30	50	70	100	0	10	20	30	50	70	100	130
Temperature (° C.).	8.60	8.75	8.75	8.41	8.21	7.56	7.44	8.90	8.92	8.92	8.58	7.87	7.74	7.24	9.20	9.09	9.01	8.58	7.82	7.63	7.28	7.22
Salinity (‰).	35.21	35.19	35.19	35.16	35.16	35.16	35.16	35.01	35.01	35.01	35.01	35.01	35.03	35.05	34.78	34.78	34.85	34.85	34.88	34.96	35.01	35.01
Density.	27.37	27.33	27.32	27.35	27.38	27.48	27.50	27.17	27.17	27.17	27.21	27.32	27.36	27.44	26.91	26.95	27.02	27.07	27.23	27.32	27.41	27.42
Quantity (cc) examined.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
(Peridiniales).																						
77. Ceratium macroceros.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78. — tripos.	120	60	120	20	40	..	..	40	..	20	..	..	..	..	..	20	..	..	..	..	..	..
79. Dinophysis acuminata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. — acuta.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — ovum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — retundata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diplopsalis lenticula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. Exuviaella baica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Glenodinium bipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — danicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
91. Goniodoma Ostenfeldii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera.	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — triacantha.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni.	..	40	..	..	..	..	40	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — conicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
101. — crassipes.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — depressum.	20	40	160	..	..	..	..	40	60	..	..	..	..	..	20	20	..	..	..	..	..	..
103. — geminum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. — Granii.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105. — oceanicum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
106. — ovatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. — pallidum.	..	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..
108. — parallelum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — pellucidum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — pentagonum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — Steinii.	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — spp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
114. Pouchetia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. Protoceratium reticulatum.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
116. Pyrocystis lunula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.																						
117. Halosphaera viridis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																						
118. Cyttarocylis denticulata.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. — norvegica.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	..	..
120. Laboea conica.	60	140	60	..	..	..	..	1800	760	240	..	..	..	..	..	..	..	..	..	..	..	..
121. — strobila.	160	220	340	20	..	..	..	260	160	120	..	20	..	..	..	..	..	..	..	..	..	..
122. — spp.	1540	1000	1060	840	460	20	140	21720	14860	1000	600	180	160	120	820	580	6880	460	60	80	120	120
123. Mesodinium sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Ptychocylis urnula.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
126. Tintinnus acuminatus.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
127. Infusoria cetera.	1620	1100	780	20	80	120	20	420	720	[illegible]	60	120	120	..	..	20	..	20	..	..	..	..
128. Radiolaria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.																						
129. Medusae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Copepoda cetera.	..	..	..	20	..	20	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..
133. Nauplii.	..	..	20	20	..	20	..	..	60	40	..	..	40	..	..	20	100	..	..	..	..	..
134. Crustacea cetera.	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Fritillaria borealis.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Rotatoria.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
139. Cystae.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Ova.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Round cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Indeterminable cells.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera.	..	20	..	..	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..

[1] Bottle broken -- contents lost.

Table XI. North Sea. — Southern Section. (Scottish Investigations). May and June 1912 (continued).

Sc 38 A. 15/6 12. — 58°42′ N. 1°44′ E.

0	10	20	30	50	70	105
7.80	7.72	7.63	7.51	7.43	6.72	6.62
35.01	35.03	35.03	35.03	35.05	35.07	35.08
27.34	27.36	27.38	27.39	27.41	27.53	27.56
50	50	50	50	50	50	50

Sc 38 B. 15/6 12. — 58°50′ N. 2°40′ E.

0	10	20	30	50	70	110
7.50	7.55	7.54	7.48	7.23	6.46	6.34
35.17	35.17	35.17	35.17	35.17	35.17	35.19
27.50	27.50	27.50	27.50	27.55	27.64	27.68
50(10)	50	50	50	50	50	50(10)

Sc 38 C. 16/6 12. — 59°3′ N. 4°6′ E.

0	10	20	30	50	70	100	150	200	285
6.20	6.55	6.54	5.12	5.03	5.55	5.53	6.03	6.17	6.25
33.35	33.35	33.37	34.02	34.43	34.78	34.87	35.03	35.12	35.12
26.23	26.18	26.21	26.91	27.41	27.45	27.53	27.60	27.64	27.63
50	50	50	50	50	50	50	50	50	50

Sc 38 D. 16/6 12. — 59°9′ N. 4°47′ E.

0	10	20	30	50	70	100	150	200	270
6.90	7.03	6.52	6.21	5.14	5.72	5.46	5.72	5.85	6.14
33.06	33.06	33.28	33.39	34.43	34.72	34.83	34.97	35.03	35.12
25.92	25.91	26.14	26.27	27.23	27.39	27.50	27.60	27.65	27.66
50(10)	50(10)	50(10)	50(10)	50	50	50	50	50	50

Sc 38 E. 18/6 12. — 60°16′ N. 3°41′ E.

0	10	20	30	50	70	100	150	200	260
7.20	7.13	6.51	6.24	7.11	7.53	8.04	7.94	7.76	7.17
33.04	33.04	33.10	33.49	35.01	36.16	35.30	35.30	35.30	35.28
25.87	25.89	26.00	26.35	27.44	27.48	27.53	27.54	27.56	27.63
50(100)	50(100)	50(100)	50(100)	50	50	50	50	50	50

Sc 38 F. 18/6 12. — 59°25′ N. 2°48′ E.

0	10	20	30	50	70	100	120
7.60	7.63	7.58	7.17	7.85	7.82	7.64	7.54
33.93	33.95	33.98	34.61	35.26	35.26	35.26	35.28
26.51	26.53	26.55	27.11	27.52	27.58	27.56	27.58
50	50	50	50	50	50	50	50

Sc 38 G. 18/6 12. 59°35′ N. 1°51′ E.

0	10	20	30	50	70	118
7.50	7.62	7.61	7.54	7.54	6.94	6.06
34.34	34.34	34.34	34.36	35.19	35.19	35.19
26.85	26.84	26.84	26.86	27.54	27.60	27.71
50(100)	50(100)	50(100)	50(100)	50	50	50

Sc 38 G. 15/6 12. 59°35′ N. 1°51′ E.

0	10	20	30	50	70	118
7.50	7.62	7.61	7.54	7.54	6.94	6.06
34.34	34.34	34.34	34.36	35.19	35.19	35.19
26.85	26.84	26.84	26.86	27.54	27.60	27.71
50(100)	50(100)	50(100)	50(100)	50	50	50

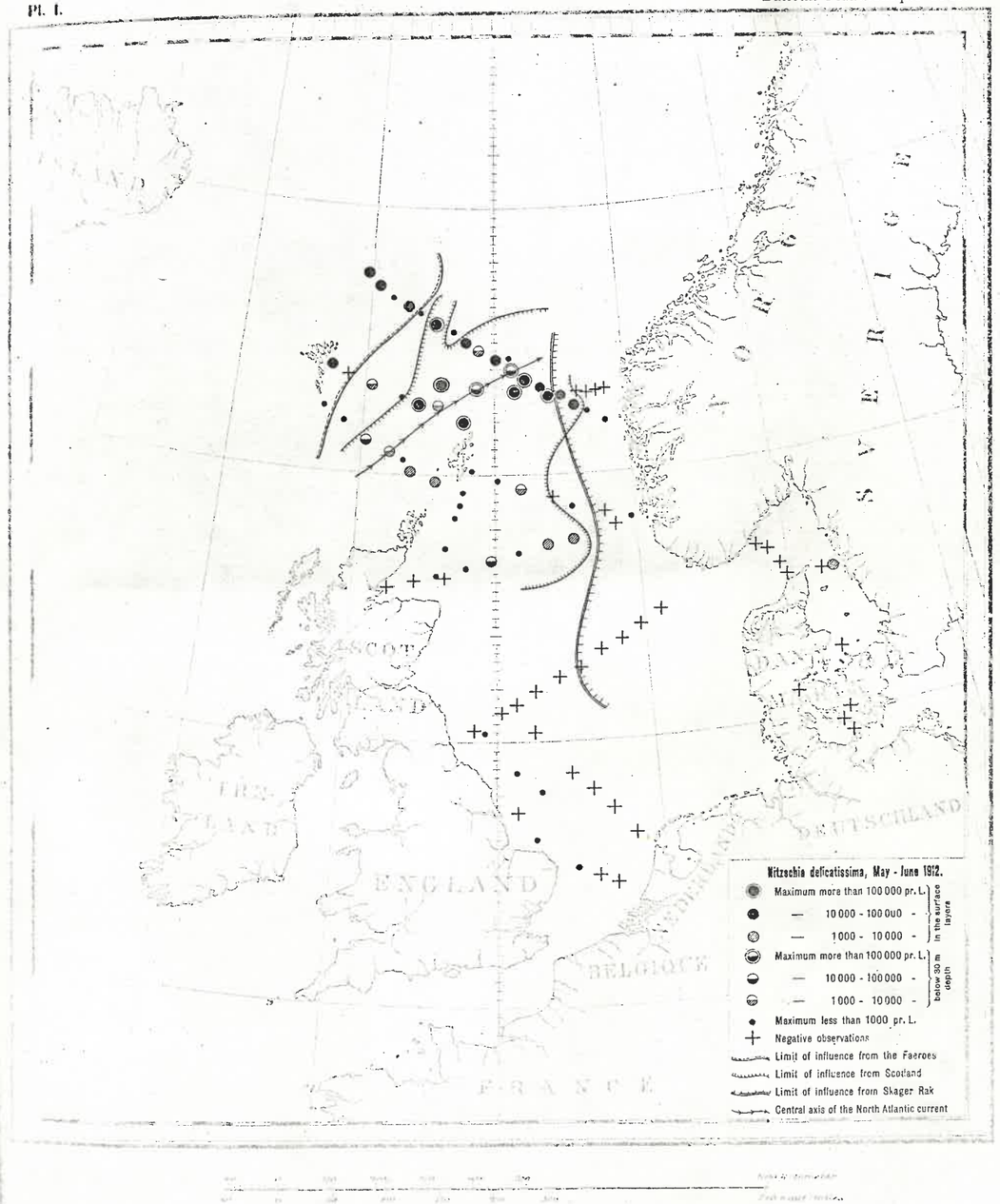
Table XI. North Sea. — Southern Section. May and June 1912 (continued).

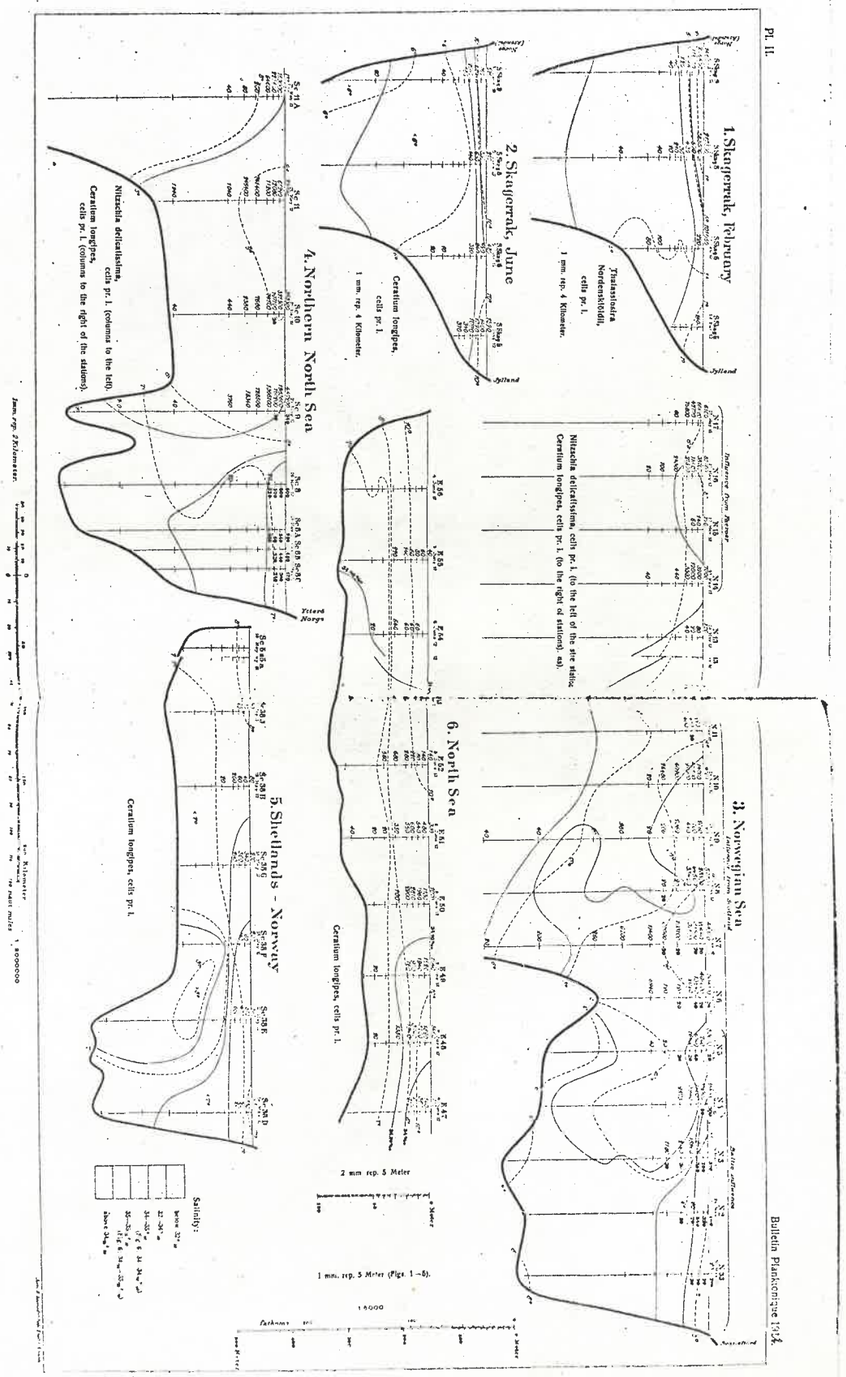
Station	Sc 28. 14/5 12. — 57°53' N. 2°48' W.			Sc 30. 14/5 12. — 58°00' N. 2°54' W.				
Depth (metres)	0	10	20	0	10	20	30	50
Temperature (° C.)	8.70	8.59	8.23	8.80	8.14	7.95	7.93	7.72
Salinity (‰)	34.38	34.40	34.40	34.56	34.54	34.54	34.54	34.54
Density	26.70	26.72	26.79	26.82	26.92	26.95	26.95	26.9[illegible]
Quantity (cc) examined	50	50	50	50(10)	50(10)	50(10)	50(10)	50(10)
(Peridiniales.)								
77. Ceratium macroceros	..	..	..	..	..	..	..	..
78. — tripos	..	..	..	..	..	..	..	..
79. Dinophysis acuminata	100	120	260	..	20	..	..	..
80. — acuta	..	..	..	..	..	..	..	..
81. — norvegica	..	..	..	..	..	..	..	..
82. — ovum	..	..	..	..	..	..	..	..
83. — rotundata	60	80	..	..	20	20	20	..
84. Diplopsalis lenticula	..	..	..	..	..	20	20	..
85. — sp.	..	..	..	..	..	..	..	..
86. Exuviaella baltica	1200	2340	..	..	..	..	..	..
87. — sp.	160	260	240	..	..	..	..	..
88. Glenodinium bipes	..	..	20	20	..	..	..	..
89. — danicum	..	..	..	..	200	..	..	..
90. — sp.	160	260	20	..	..	..	..	..
91. Goniodoma Ostenfeldii	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera	20	..	..	..	..	..	..	..
93. — triacantha	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni	920	2460	400	460	1160	420	180	..
95. — sp.	880	1460	440	5700	6160	1900	140	..
96. Oxytoxum sp.	..	..	..	..	..	..	..	..
97. Peridinium brevipes	..	..	..	60	40	..	..	..
98. — cerasus	..	..	..	140	300	80	..	..
99. — conicoides	..	..	..	..	..	..	..	..
100. — conicum	..	..	..	..	..	..	..	..
101. — crassipes	..	..	..	..	..	..	..	..
102. — depressum	..	..	..	..	..	20	40	..
103. — geminum	..	..	..	..	..	..	..	..
104. — Granii	..	..	..	..	..	..	..	20
105. — oceanicum	..	..	..	..	..	..	..	..
106. — ovatum	40	100	160	..	..	..	..	..
107. — pallidum	..	..	..	140	300	240	20	..
108. — parallelum	..	..	..	..	..	..	..	..
109. — pellucidum	20	60	340	..	..	60	..	..
110. — pentagonum	..	..	..	..	..	..	..	..
111. — roseum	..	..	..	..	..	..	..	..
112. — Steinii	..	..	80	..	..	..	..	20
113. — spp.	100	40	..	..	..	..	..	20
114. Pouchetia sp.	80	80	60	..	..	..	..	..
115. Protoceratium reticulatum	..	..	60	20	20	..	..	..
116. Pyrocystis lunula	..	..	..	..	..	..	..	..
Chlorophyceae.								
117. Halosphaera viridis	..	..	..	..	..	..	..	..
Protozoa.								
118. Cyttarocylis denticulata	..	..	..	..	..	..	..	..
119. — norvegica	..	..	..	..	..	..	..	..
120. Laboea conica	20	..	..	60	1440	..	..	..
121. — strobila	80	20	..	..	300	..	..	..
122. — spp.	520	600	460	220	1240	180	160	20
123. Mesodinium sp.	640	320	60	900	420	320	40	..
124. Ptychocylis urnula	..	20	..	..	20	..	..	..
125. Tintinnopsis beroidea	200	140	440	20	780	20	100	40
126. Tintinnus acuminatus	..	..	..	..	..	..	..	..
127. Infusoria cetera	40	..	..	..	..	..	..	..
128. Radiolaria	..	..	..	..	..	..	..	..
Metazoa.								
129. Medusae	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..
131. Oithona similis	..	..	..	..	..	..	..	..
132. Copepoda cetera	..	..	..	..	..	..	..	..
133. Nauplii	..	..	..	..	..	..	..	60
134. Crustacea cetera	..	..	..	..	..	..	..	..
135. Fritillaria borealis	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	20
137. Rotatoria	..	..	..	..	..	..	..	60
138. Larvae	..	..	..	..	..	..	..	..
139. Cystae	..	..	..	..	..	..	..	..
140. Ova	..	..	..	..	..	..	..	..
141. Round cells	500	420	160	..	..	..	..	..
142. Indeterminable cells	..	..	..	460	520	..	..	..
143. Pollen of firs	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera	..	..	..	..	..	..	..	..

Station	Sc 32. 14/5 12. — 58°08' N. 2°00' W.							Sc 34. 14/5 12. — 58°17' N. 1°3' W.					
Depth (metres)	0	10	20	30	50	70	85	0	10	20	30	50	85
Temperature (° C.)	8.20	8.28	7.98	7.91	7.53	7.44	7.44	8.30	8.34	8.21	7.82	6.93	6.94
Salinity (‰)	34.85	34.83	34.83	34.83	34.83	34.92	34.92	34.90	34.90	34.90	34.92	35.14	35.14
Density	27.14	27.11	27.16	27.17	27.23	27.31	27.31	27.17	27.17	27.19	27.26	27.56	27.56
Quantity (cc) examined	50(10)	50(10)	50(10)	50(10)	50	50	50	50	50	50	50	50	50
(Peridiniales.)													
77. Ceratium macroceros	..	..	..	..	..	..	..	..	..	..	..	..	..
78. — tripos	..	..	..	..	..	..	..	..	..	..	..	..	..
79. Dinophysis acuminata	..	..	..	..	..	..	..	..	..	..	..	20	..
80. — acuta	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — ovum	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — rotundata	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	20	..
86. Exuviaella baltica	..	..	..	..	..	..	..	2980	2640	860	360	80	..
87. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — danicum	..	..	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	60	..	100	20	140	40
91. Goniodoma Ostenfeldii	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera	..	..	..	..	..	..	..	..	..	..	..	..	20
93. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni	760	1320	60	60	..	..	20	40	40	..	40	160	40
95. — sp.	..	..	..	..	..	..	..	60	40	80	..	140	20
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — conicum	..	..	..	..	..	..	..	..	..	..	..	..	..
101. — crassipes	..	..	..	20	..	..	..	..	..	..	..	..	..
102. — depressum	..	..	..	..	..	..	..	20	..	60	..	..	..
103. — geminum	..	..	..	..	..	..	..	..	..	..	..	..	..
104. — Granii	..	..	..	..	..	..	..	..	..	..	..	..	..
105. — oceanicum	..	..	..	..	..	..	..	..	..	..	..	..	..
106. — ovatum	..	..	..	..	..	20	..	..	..	..	20	..	..
107. — pallidum	120	20	..	..	..	..	..	..	..	..	..	..	..
108. — parallelum	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — pellucidum	..	..	..	..	..	..	..	..	..	..	..	20	..
110. — pentagonum	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — Steinii	..	..	..	..	..	..	..	20	..	..	..	..	..
113. — spp.	..	..	20	..	..	..	..	..	20	20	..	..	..
114. Pouchetia sp.	..	..	..	..	..	..	..	..	..	..	..	..	20
115. Protoceratium reticulatum	..	..	..	..	..	..	..	..	..	20	..	..	..
116. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.													
117. Halosphaera viridis	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.													
118. Cyttarocylis denticulata	..	..	..	..	..	..	20	..	..	..	..	..	..
119. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Laboea conica	60	40	..	..	..	..	..	..	..	..	..	..	..
121. — strobila	..	40	..	..	..	..	..	..	..	..	..	..	..
122. — spp.	660	180	20	..	20	100	180	40	60	80	..	..	40
123. Mesodinium sp.	..	..	..	..	..	..	..	20	40	40	20	20	..
124. Ptychocylis urnula	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea	..	..	..	..	60	..	40	..	..	..	..	..	40
126. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..
127. Infusoria cetera	310	40	..	..	..	..	80	..	..	..	..	20	..
128. Radiolaria	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.													
129. Medusae	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Copepoda cetera	..	..	..	..	..	..	..	..	20	20	..	..	..
133. Nauplii	20	80	20	80	..	20	..	20	40	40	20	..	..
134. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Fritillaria borealis	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Rotatoria	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae	..	..	..	..	..	..	..	..	..	..	..	..	..
139. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Ova	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Round cells	..	..	..	..	60	5220	..	20	..	20	20	..	..
142. Indeterminable cells	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs	..	..	..	..	..	20	..	..	..	..	..	..	..
144. Scales of Lepidoptera	..	..	..	..	20	..	..	..	..	..	..	..	..

Station	Sc 36. 15/5 12. — 58°26' N. 0°8' W.								Sc 38. 15/5 12. — 58°34' N. 0°47' E.							
Depth (metres)	0	10	20	30	50	70	100	130	0	10	20	30	50	70	100	140
Temperature (° C.)	8.00	8.02	7.76	7.65	7.05	6.62	6.62	6.62	7.80	7.89	7.83	7.56	7.59	6.75	6.68	6.62
Salinity (‰)	35.17	35.16	35.16	35.16	35.16	35.17	35.17	35.17	34.96	34.94	34.94	34.94	34.94	34.97	35.01	35.03
Density	27.43	27.41	27.44	27.46	27.55	27.63	27.63	27.63	27.29	27.26	27.28	27.30	27.31	27.45	27.49	27.52
Quantity (cc) examined	50	50	50	50	50	50	50	50	50	50	50	50	50	100	100	50
(Peridiniales.)																
77. Ceratium macroceros	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78. — tripos	60	20	20	20	..	..	..	..	..	..	..	..	..	..	..	..
79. Dinophysis acuminata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. — acuta	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
81. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
82. — ovum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — rotundata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diplopsalis lenticula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
86. Exuviaella baltica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Glenodinium bipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
89. — danicum	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
91. Goniodoma Ostenfeldii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
93. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
94. Gymnodinium Lohmanni	980	1380	80	..	..	20	..	..	200	100	60	80	..	..	..	..
95. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. — conicum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
101. — crassipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — depressum	40	160	80	..	..	..	..	..	60	100	80	40	..	..	..	..
103. — geminum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
104. — Granii	120	240	..	60	20	20	..	..	..	..	..	..	..	..	..	..
105. — oceanicum	20	..	20	..	..	..	..	..	..	20	20	..	..	..	..	..
106. — ovatum	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
107. — pallidum	40	20	100	..	..	..	..	..	..	..	..	..	..	..	..	..
108. — parallelum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
109. — pellucidum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
110. — pentagonum	..	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — Steinii	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. — spp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
114. Pouchetia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
115. Protoceratium reticulatum	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
116. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.																
117. Halosphaera viridis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																
118. Cyttarocylis denticulata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Laboea conica	420	320	..	..	..	..	..	..	60	..	..	..	20	10	..	..
121. — strobila	140	320	..	..	..	..	..	..	240	180	140	40	..	..	30	..
122. — spp.	4940	1980	60	..	..	..	40	60	900	800	280	80	40	50	20	..
123. Mesodinium sp.	140	780	200	560	..	..	..	160	220	220	100	220	80	..	10	..
124. Ptychocylis urnula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea	..	..	..	..	..	20	20	20	..	..	..	..	..	..	..	..
126. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
127. Infusoria cetera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
128. Radiolaria	..	..	..	..	20	..	..	40	..	..	..	..	..	..	..	..
Metazoa.																
129. Medusae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Copepoda cetera	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
133. Nauplii	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
134. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
135. Fritillaria borealis	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Rotatoria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
139. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Ova	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Round cells	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
142. Indeterminable cells	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Station	Sc 38 A. 15/5 12. — 58°42' N. 1°44' E.							Sc 38 B. 15/5 12. — 58°50' N. 2°40' E.							Sc [illegible]		
Depth (metres)	0	10	20	30	50	70	105	0	10	20	30	50	70	110	0	10	2[illegible]
Temperature (° C.)	7.80	7.72	7.63	7.51	7.43	6.72	6.62	7.50	7.55	7.54	7.48	7.23	6.46	6.34	6.30	6.55	6.[illegible]
Salinity (‰)	35.01	25.03	35.03	35.03	35.05	35.07	35.08	35.17	35.17	35.17	35.17	35.17	35.17	35.19	33.35	33.35	33.[illegible]
Density	27.34	27.36	27.38	27.39	27.41	27.53	27.56	27.50	27.50	27.50	27.50	27.55	27.64	27.68	26.23	26.18	26.[illegible]
Quantity (cc) examined	50	50	50	50	50	50	50	50(10)	50	50	50	50	50	50(10)	50	50	5[illegible]
(Peridiniales.)																	
77. Ceratium macroceros	..	..	..	..	..	..	..	20	..	..	20	..	..	..	..	20	..
78. — tripos	20	..	..	..	..	..	..	90	50	60	50	..	..	..	240	280	20
79. Dinophysis acuminata	..	..	..	..	..	..	..	..	..	..	20	..	..	..	240	200	1[illegible]
80. — acuta	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..	2[illegible]
81. — norvegica	..	..	..	..	..	..	..	10	..	..	..	..	..	..	440	500	12[illegible]
82. — ovum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
83. — rotundata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	40	2[illegible]
84. Diplopsalis lenticula	..	..	..	..	..	..	..	60	60	100	60	40	..	..	..	..	..
85. — sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	180	200	22[illegible]
86. Exuviaella baltica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. — sp.	..	..	..	..	..	..	..	880	1400	700	1420	100	280	80	..	..	..
88. Glenodinium bipes	20	..	..	..	20	..	..	20	20	40	60	100	20	..	..	..	..
89. — danicum	..	..	..	..	..	40	..	..	..	..	..	..	..	..	..	..	..
90. — sp.	..	..	..	..	..	..	..	400	560	480	460	140	180	80	..	..	..
91. Goniodoma Ostenfeldii	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
92. Gonyaulax spinifera	..	20	..	..	..	..	..	..	20	60	..	..	..	..	40	..	40
93. — triacantha	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
94. Gymnodinium Lohmanni	440	160	40	160	40	..	..	960	640	600	380	880	450	120	..	..	..
95. — sp.	..	..	..	..	..	..	..	840	2320	1780	2460	1700	500	180	..	..	..
96. Oxytoxum sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
97. Peridinium brevipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. — cerasus	..	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..
99. — conicoides	..	..	..	..	..	..	..	..	..	10	20	..	..	..	..	..	..
100. — conicum	60	80	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..
101. — crassipes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. — depressum	40	100	..	120	..	..	..	50	110	90	20	40	20	..	..	..	..
103. — geminum	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
104. — Granii	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..
105. — oceanicum	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
106. — ovatum	..	..	..	..	..	..	..	60	..	70	..	40	..	..	..	..	..
107. — pallidum	..	..	20	20	..	60	..	30	10	..	..	..	..	..	..	..	..
108. — parallelum	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..	..
109. — pellucidum	..	..	..	..	..	..	..	100	..	30	..	..	..	..	..	..	..
110. — pentagonum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
111. — roseum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. — Steinii	40	..	..	..	..	..	..	..	..	..	80	..	..	..	..	..	..
113. — spp.	..	..	..	..	..	..	..	60	40	10	140	60	40	20	..	..	..
114. Pouchetia sp.	..	..	..	..	..	..	..	..	20	60	..	..	..	20	..	..	..
115. Protoceratium reticulatum	..	..	..	..	..	..	..	60	..	20	..	..	..	..	..	..	..
116. Pyrocystis lunula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chlorophyceae.																	
117. Halosphaera viridis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Protozoa.																	
118. Cyttarocylis denticulata	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. — norvegica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
120. Laboea conica	40	..	..	..	..	..	..	400	320	320	140	..	..	100	280	220	100
121. — strobila	40	160	40	20	..	..	20	140	120	40	100	20	..	..	60	100	200
122. — spp.	140	320	20	80	520	40	100	1820	2440	1840	2160	2000	1700	560	..	..	..
123. Mesodinium sp.	420	160	..	100	..	..	..	1200	1460	1840	1700	1620	80	20	80	500	160
124. Ptychocylis urnula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Tintinnopsis beroidea	..	..	..	..	..	..	..	..	..	..	..	40	20	100	..	..	..
126. Tintinnus acuminatus	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
127. Infusoria cetera	..	..	..	..	..	..	..	..	..	100	280	120	40	..	..	..	..
128. Radiolaria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metazoa.																	
129. Medusae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
130. Acartia sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
131. Oithona similis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Copepoda cetera	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..
133. Nauplii	20	40	..	..	..	..	..	20	20	20	..	..	..	..	..	..	..
134. Crustacea cetera	..	..	..	..	..	..	..	..	..	..	..	20	..	..	..	..	..
135. Fritillaria borealis	..	..	..	20	..	..	..	10	..	10	..	..	..	..	..	..	..
136. Oikopleura sp.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Rotatoria	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Larvae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
139. Cystae	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
140. Ova	..	..	..	..	..	..	..	20	..	80	180	120	80	20	..	..	..
141. Round cells	..	..	..	..	..	..	..	520	380	40	280	180	120	120	..	..	..
142. Indeterminable cells	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
143. Pollen of firs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Scales of Lepidoptera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..


ICELAND
NORWAY
SWEDEN
SCOTLAND
IRELAND
ENGLAND
DENMARK
DEUTSCHLAND
BELGIQUE
FRANCE
Nitzschia delicatissima, May - June 1912.
Maximum more than 100 000 pr. L.
— 10 000 - 100 000 -
— 1000 - 10 000 -
Maximum more than 100 000 pr. L.
— 10 000 - 100 000 -
— 1000 - 10 000 -
in the surface layers
below 50 m depth
Maximum less than 1000 pr. L.
Negative observations
Limit of influence from the Faeroes
Limit of influence from Scotland
Limit of influence from Skager Rak
Central axis of the North Atlantic current


1. Skagerrak, February
Thalassiothrix Nordenskiöldii, cells pr. l.
1 mm. rep. 4 Kilometer.
2. Skagerrak, June
Ceratium longipes, cells pr. l.
1 mm rep. 4 Kilometer.
4. Northern North Sea
Nitzschia delicatissima, cells pr. l. (to the left of the stations).
Ceratium longipes, cells pr. l. (to the right of stations).
3. Norwegian Sea
5. Shetlands - Norway
Ceratium longipes, cells pr. l.
6. North Sea
Ceratium longipes, cells pr. l.
2 mm rep. 5 Meter
Salinity:
1 mm. rep. 5 Meter (Figs. 1—6).
1:6000