

# Biomonitoring van fytoplankton in de Nederlandse zoute wateren 2004

Kite-diagrammen



Rapport 2005-022A

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G.L. Verweij  
K. Fockens  
P. Esselink



# Biomonitoring van fytoplankton in de Nederlandse zoute wateren 2004

## Kite-diagrammen

In opdracht van het Rijksinstituut voor Kust  
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Foto omslag: ***Chaetoceros seiracanthus*** Gran 1897, twee rustsporen (1500x)  
Rustsporen van *Chaetoceros* hebben veelal een unieke vorm.  
*C. seiracanthus* kwam in de zomer van 2004 veel voor in de Noordzee  
(foto: R.P.T. Koeman).

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## Toelichting

In deze bijlage worden de zogenaamde Kite-diagrammen gegeven. De diagrammen zijn gegenereerd met het programma KITE (versie 6.1c) van LCA Software. De diagrammen geven per monsterlocatie de berekende concentraties van de getelde taxa in de loop van het jaar of monsterperiode. De concentraties zijn uitgedrukt in het aantal cellen per liter en uitgezet op een logaritmische schaal, weergegeven in de legenda's van de afzonderlijke diagrammen.

De volgorde van de monsterlocaties is dezelfde als die in het rapport. Het eerst worden de diagrammen van de oppervlaktelaag van alle locaties gegeven. Van de locaties waar monsters op verschillende dieptes zijn verzameld, wordt de naam van de locatie gevolgd door de tussen haakjes geplaatste aanduiding oppervlaktelaag, spronglaag of bodemlaag.



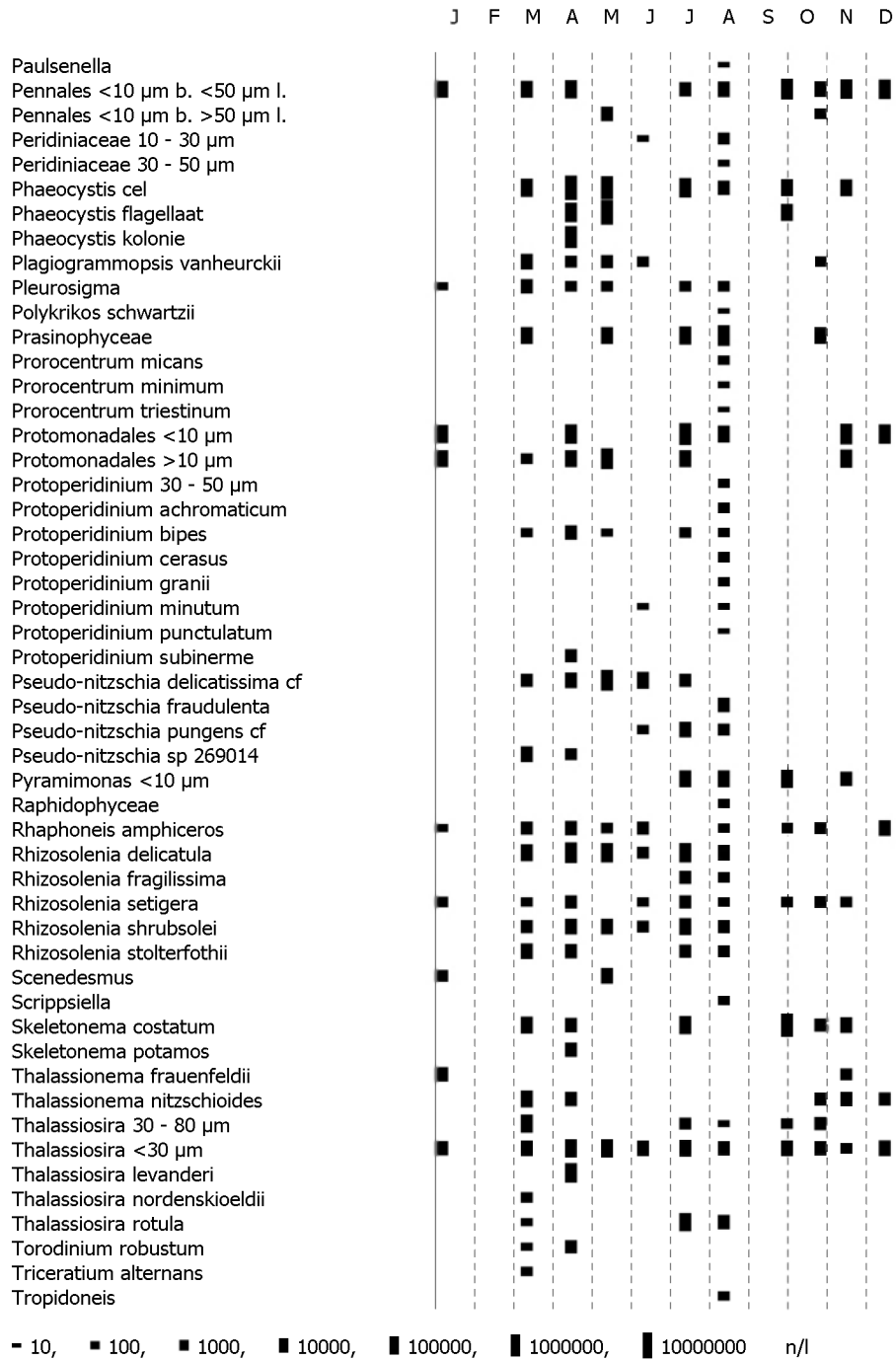


## Kite-diagrammen



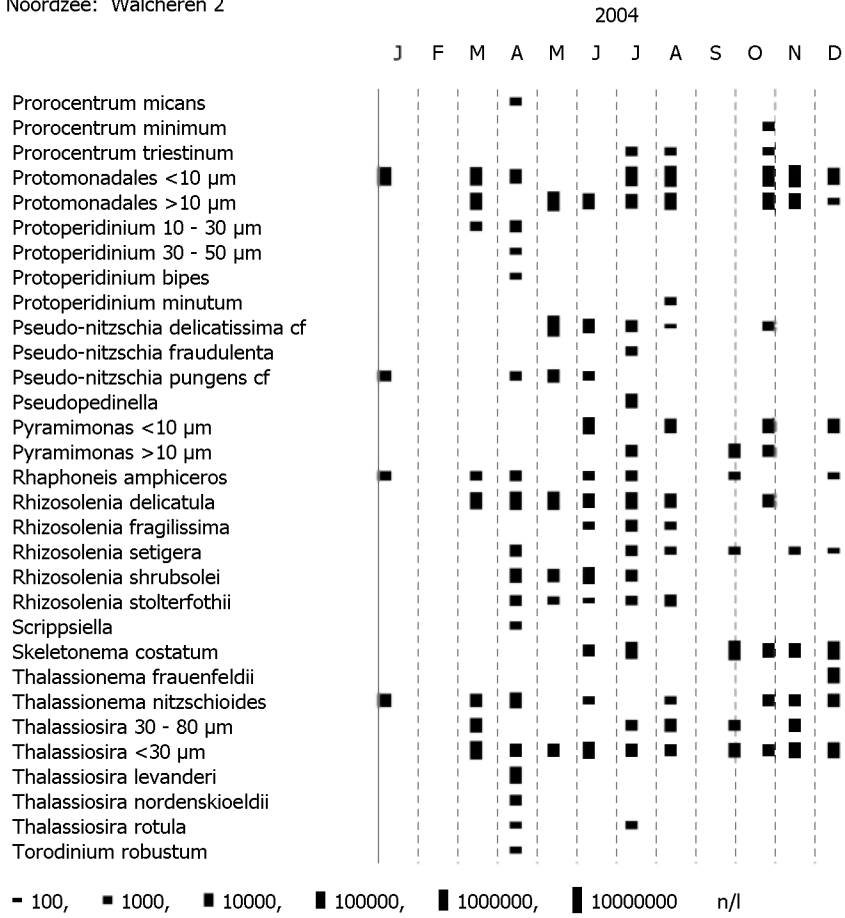
Noordzee: Goeree 6

2004



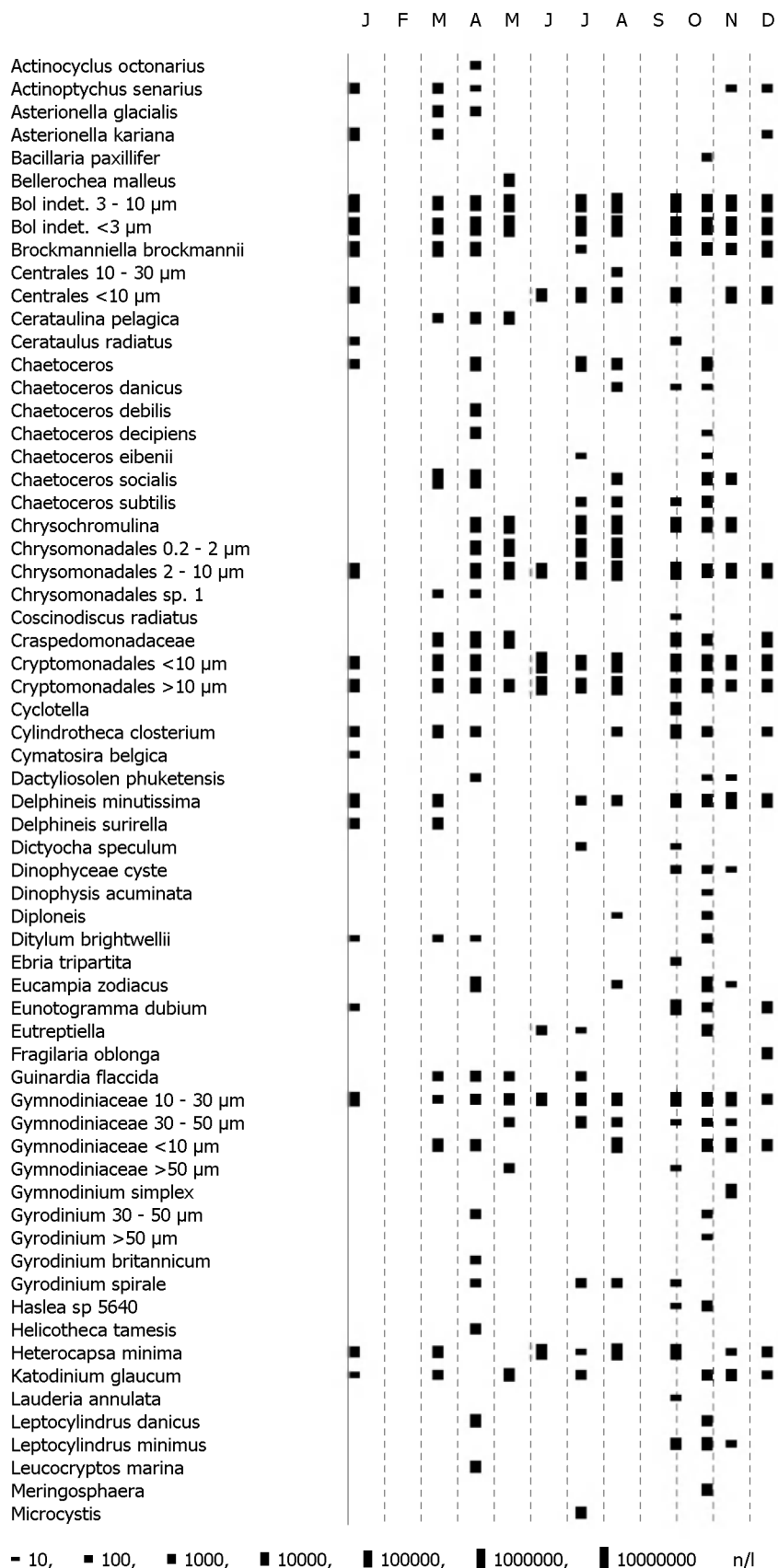


Noordzee: Walcheren 2



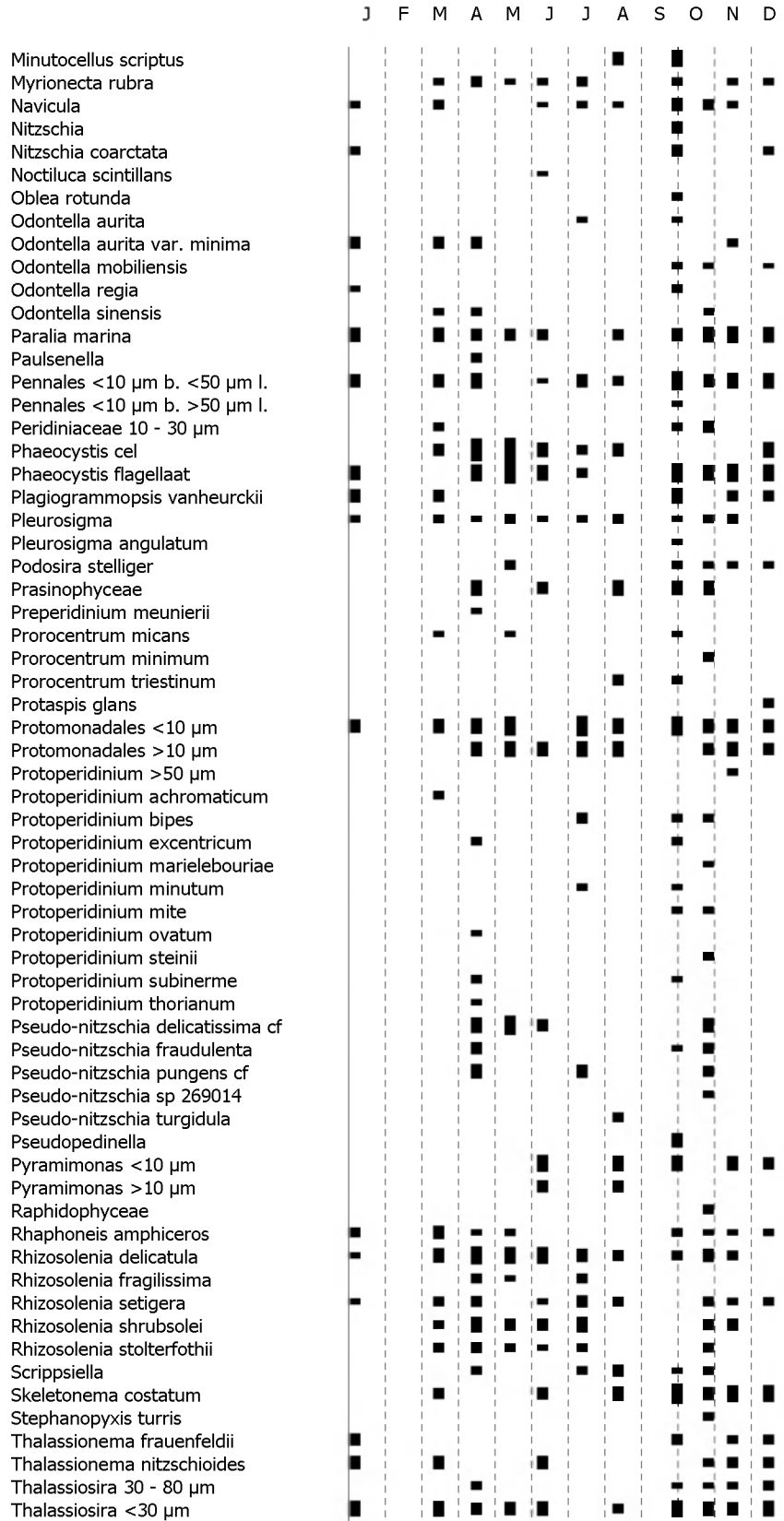
Noordzee: Walcheren 20

2004



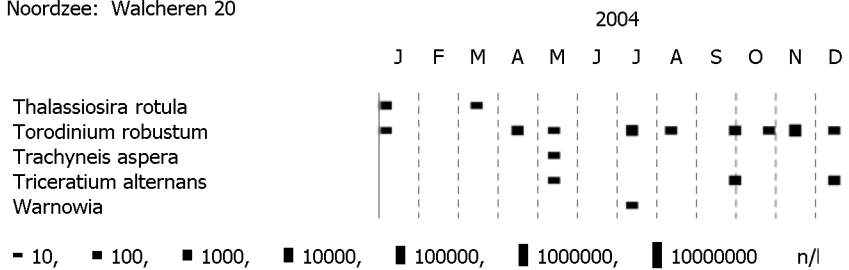
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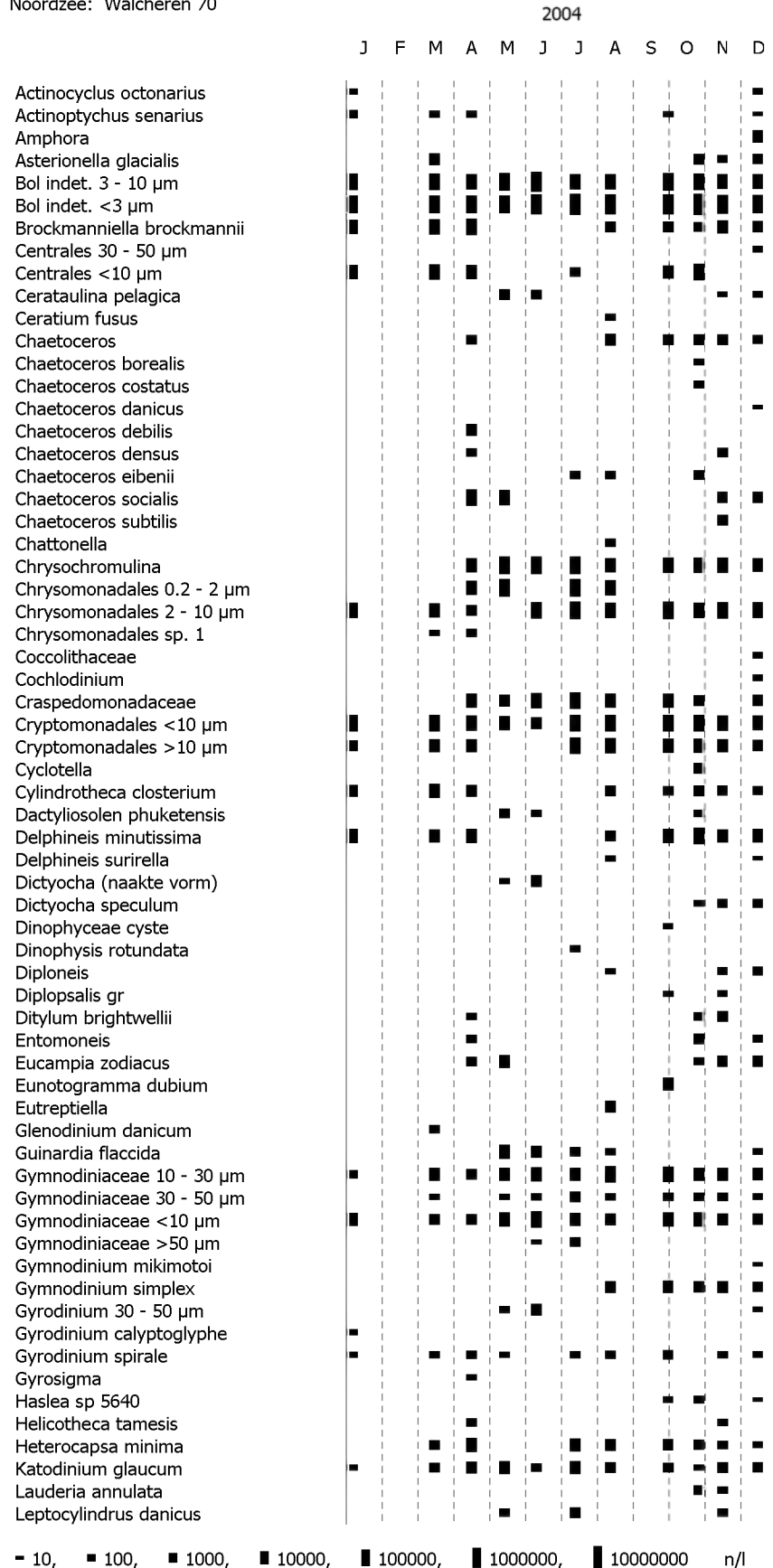
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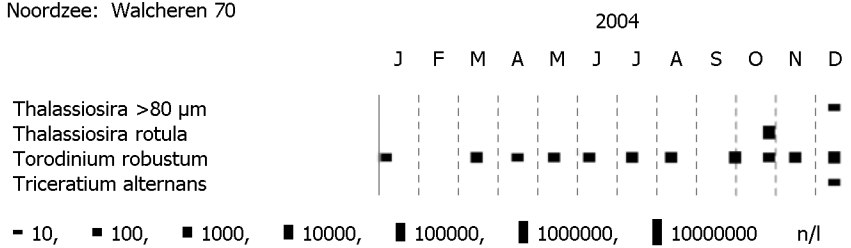


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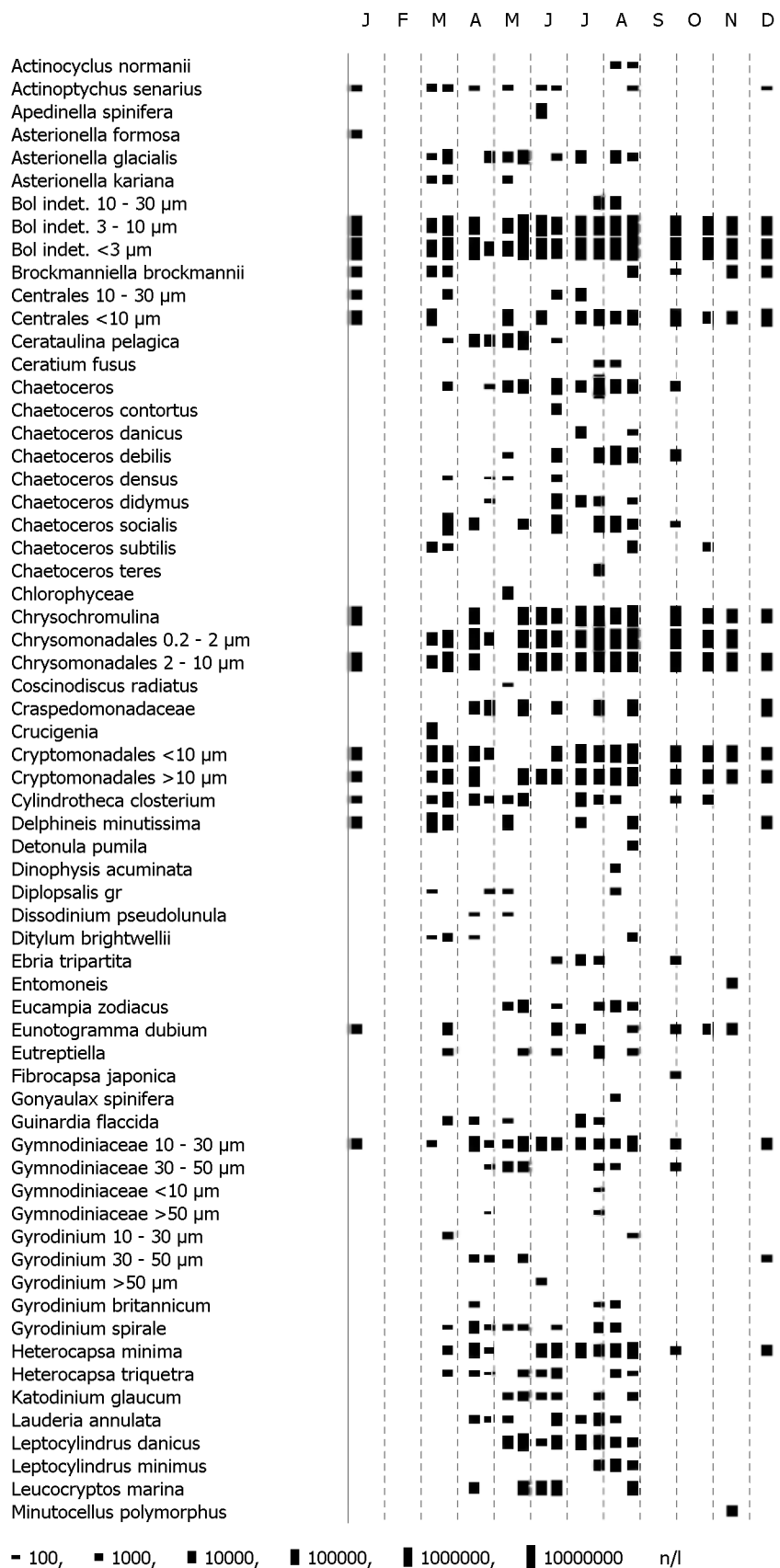


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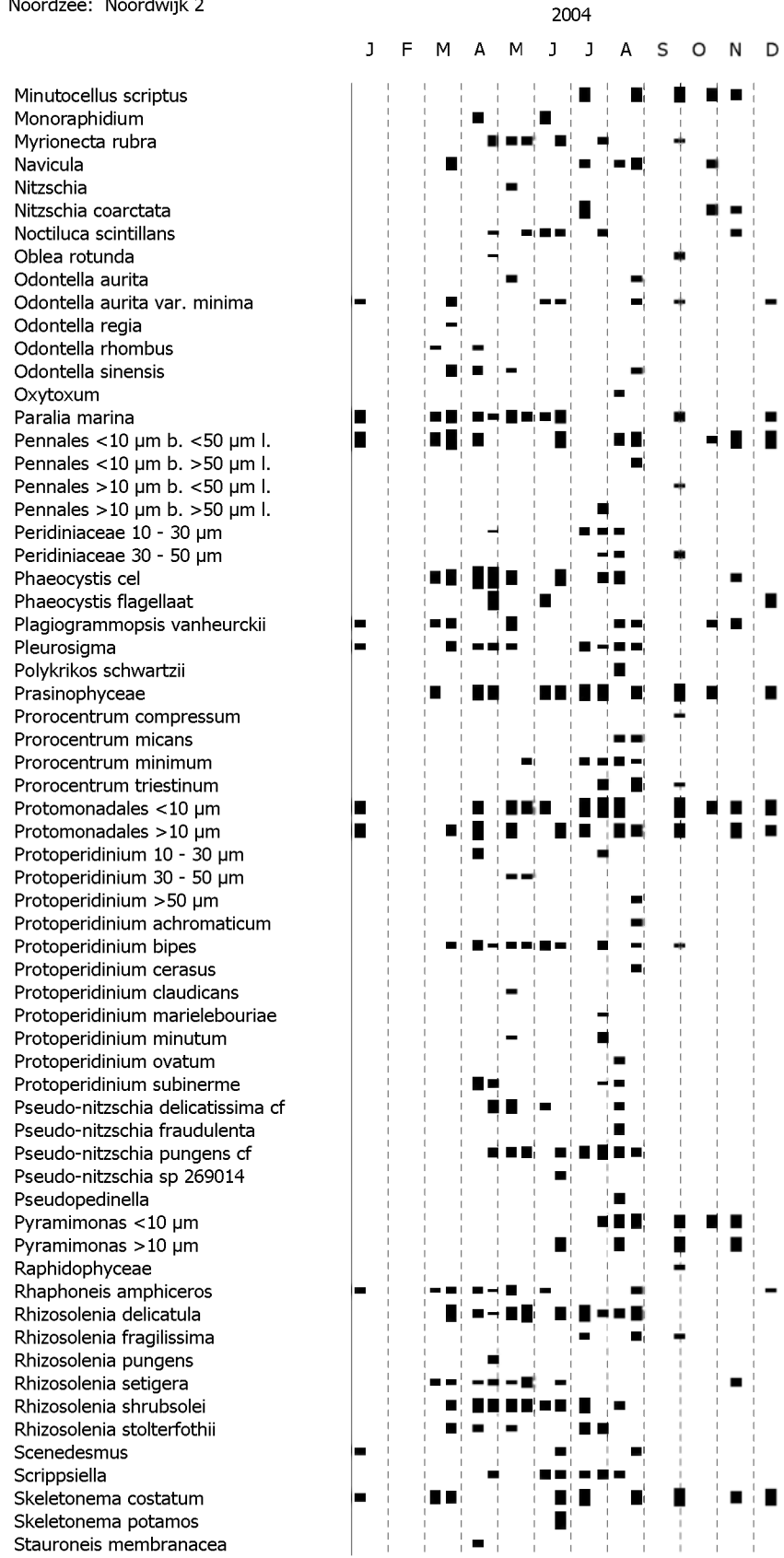


Noordzee: Noordwijk 2

2004



Noordzee: Noordwijk 2



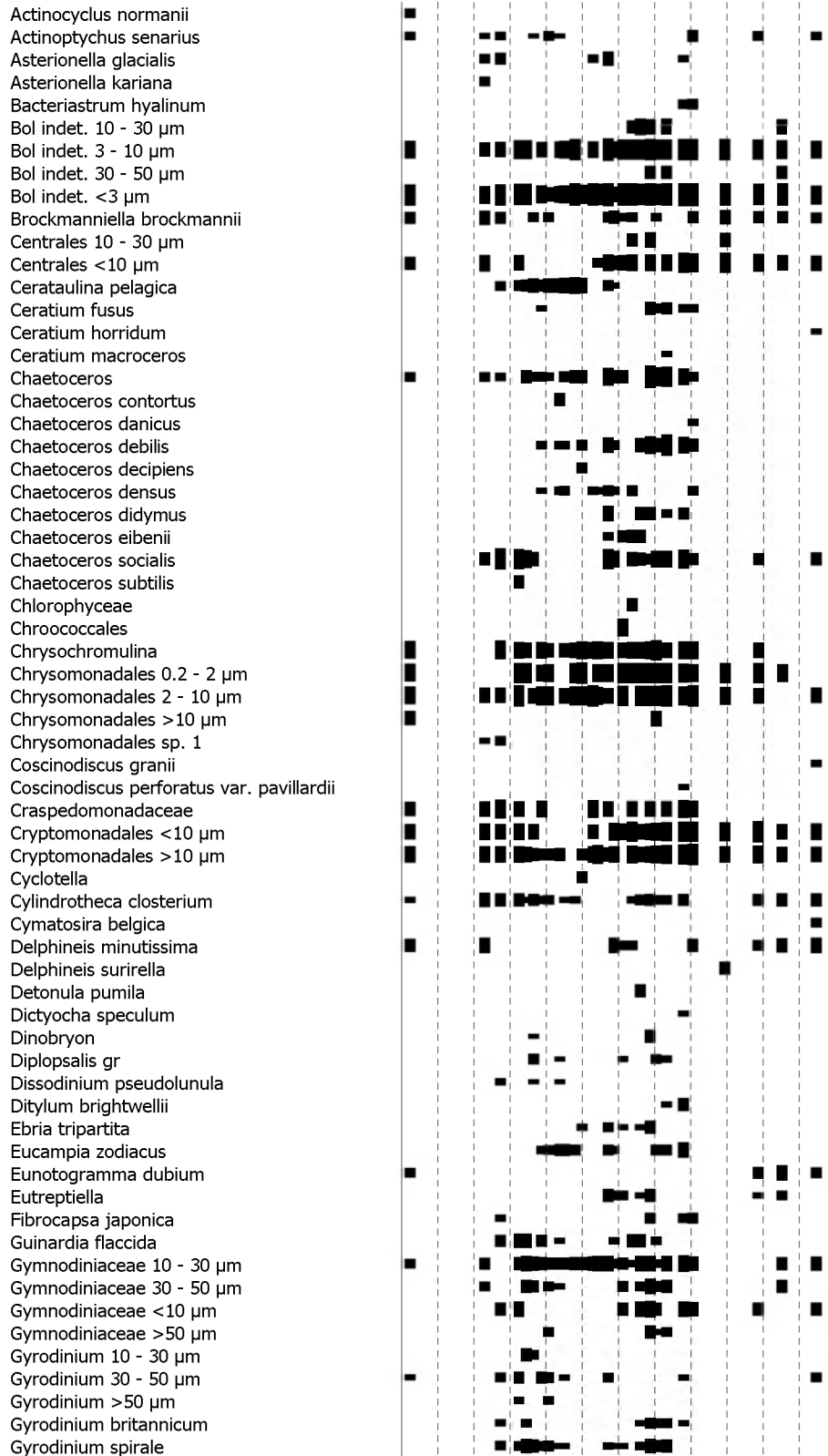
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Noordzee: Noordwijk 10

2004

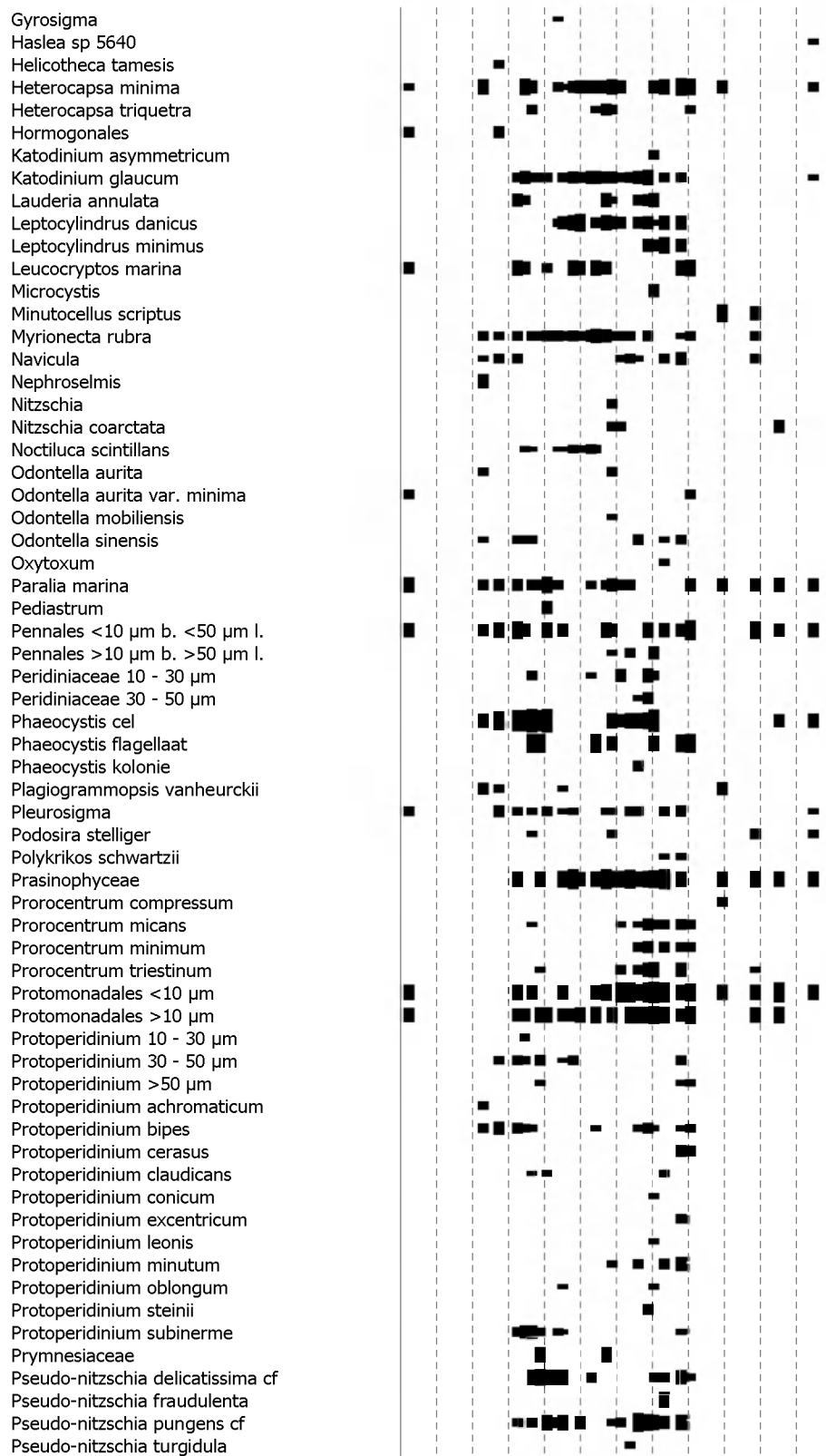
J F M A M J J A S O N D



Noordzee: Noordwijk 10

2004

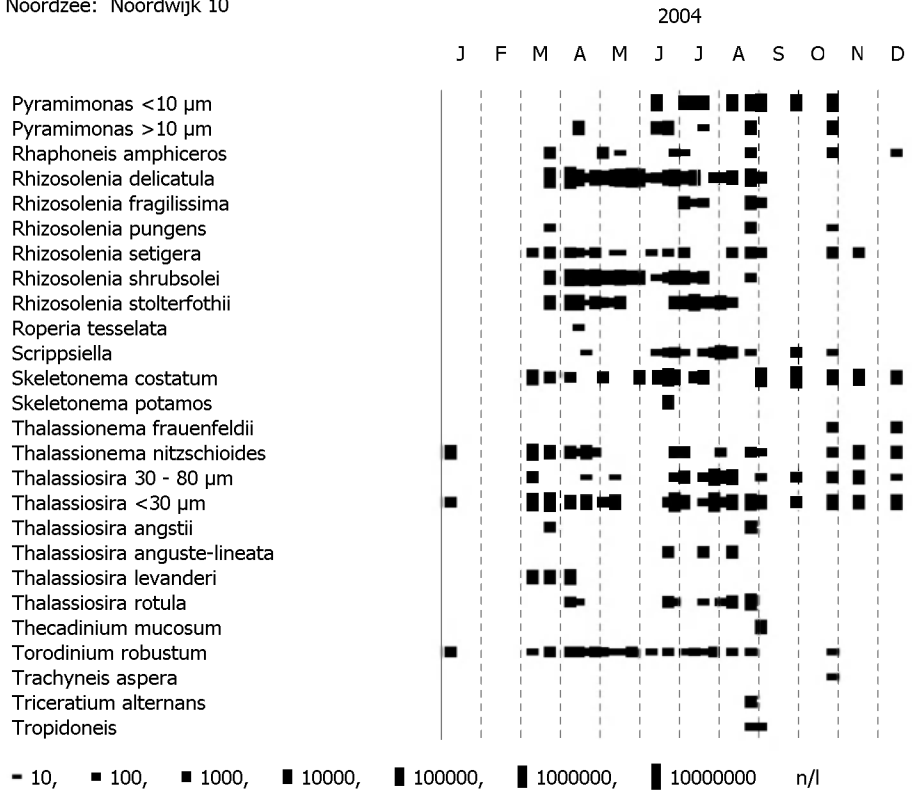
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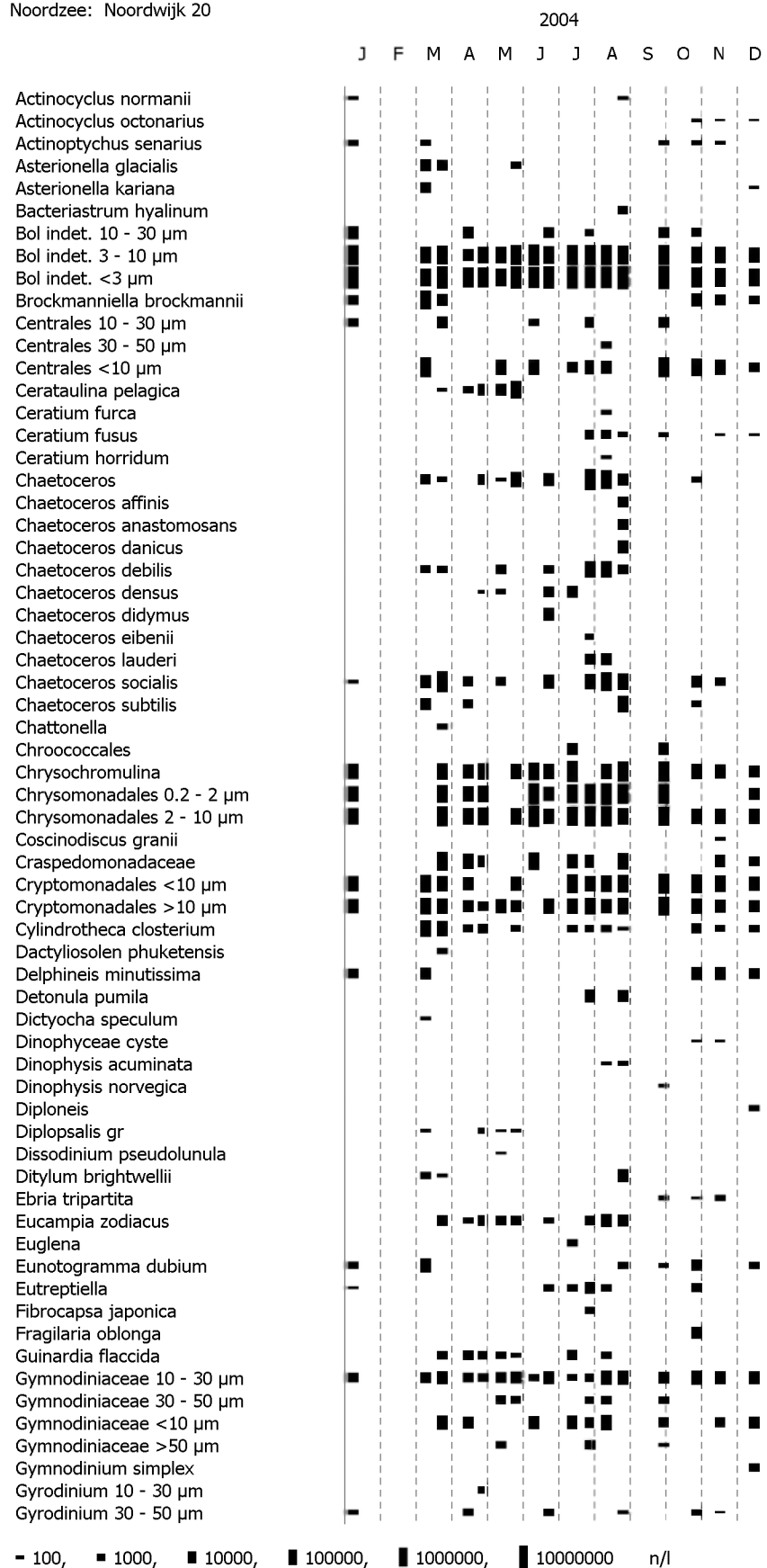
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Noordzee: Noordwijk 10

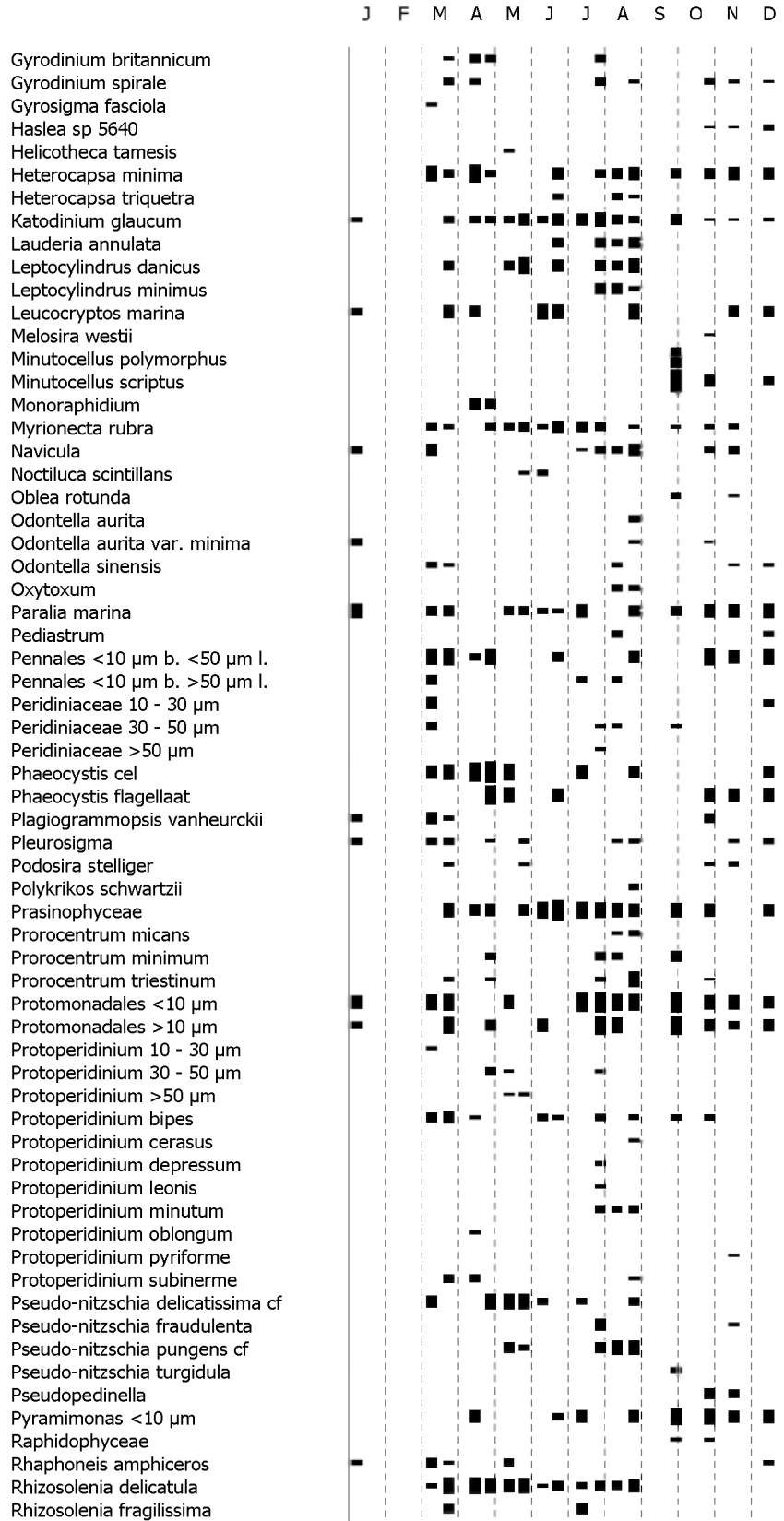


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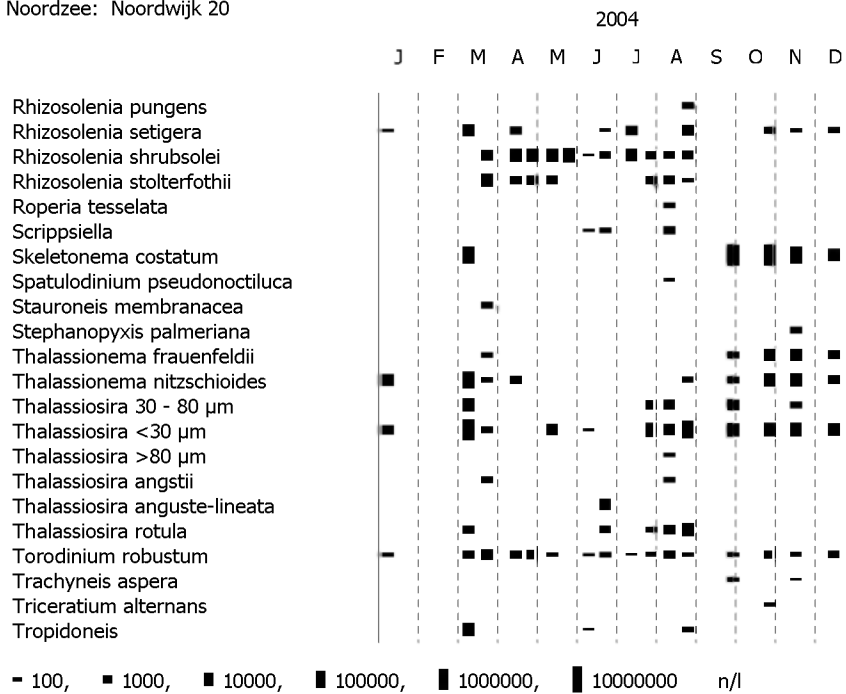
Noordzee: Noordwijk 20

2004



- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

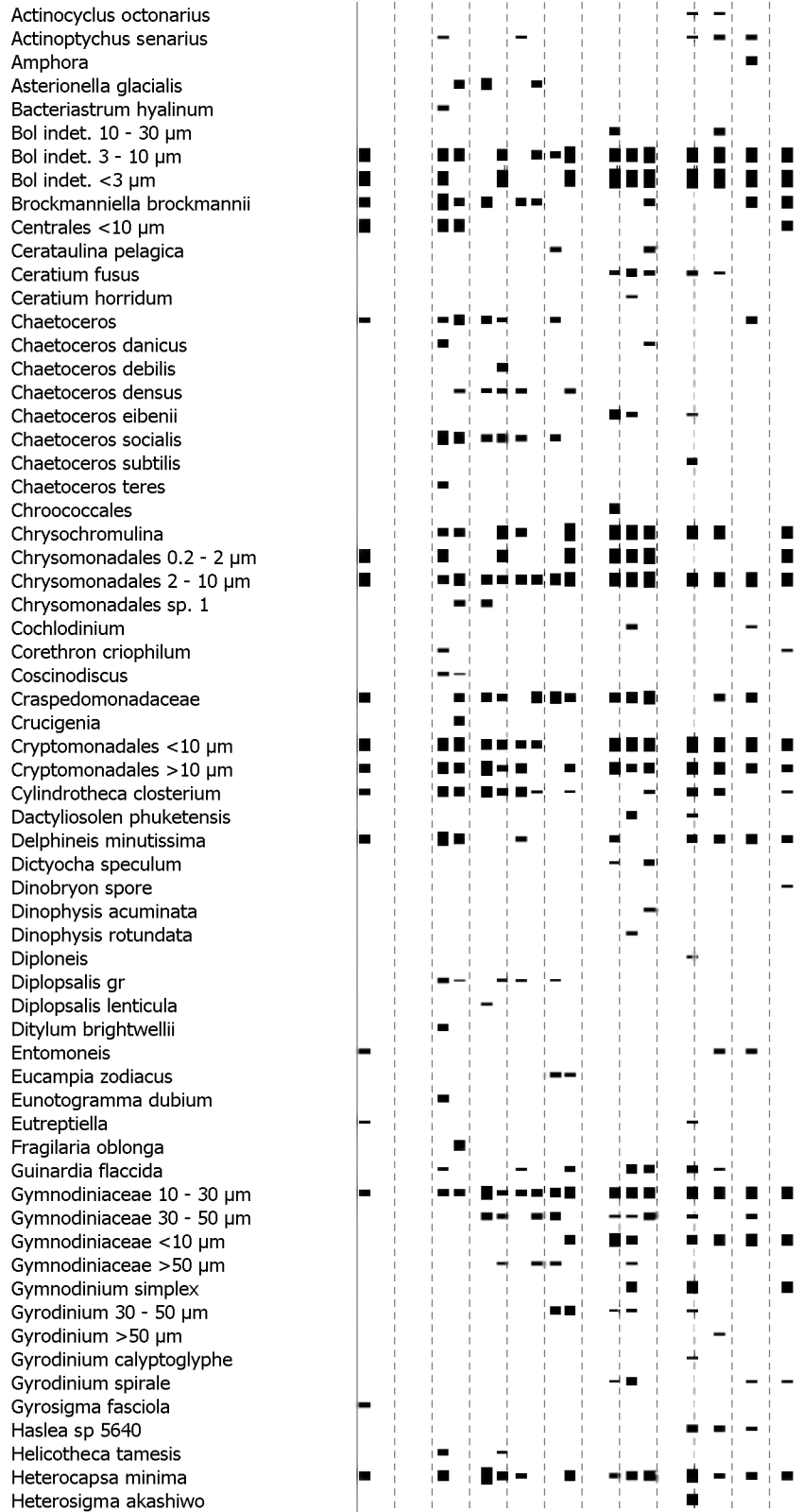
Noordzee: Noordwijk 20



Noordzee: Noordwijk 70

2004

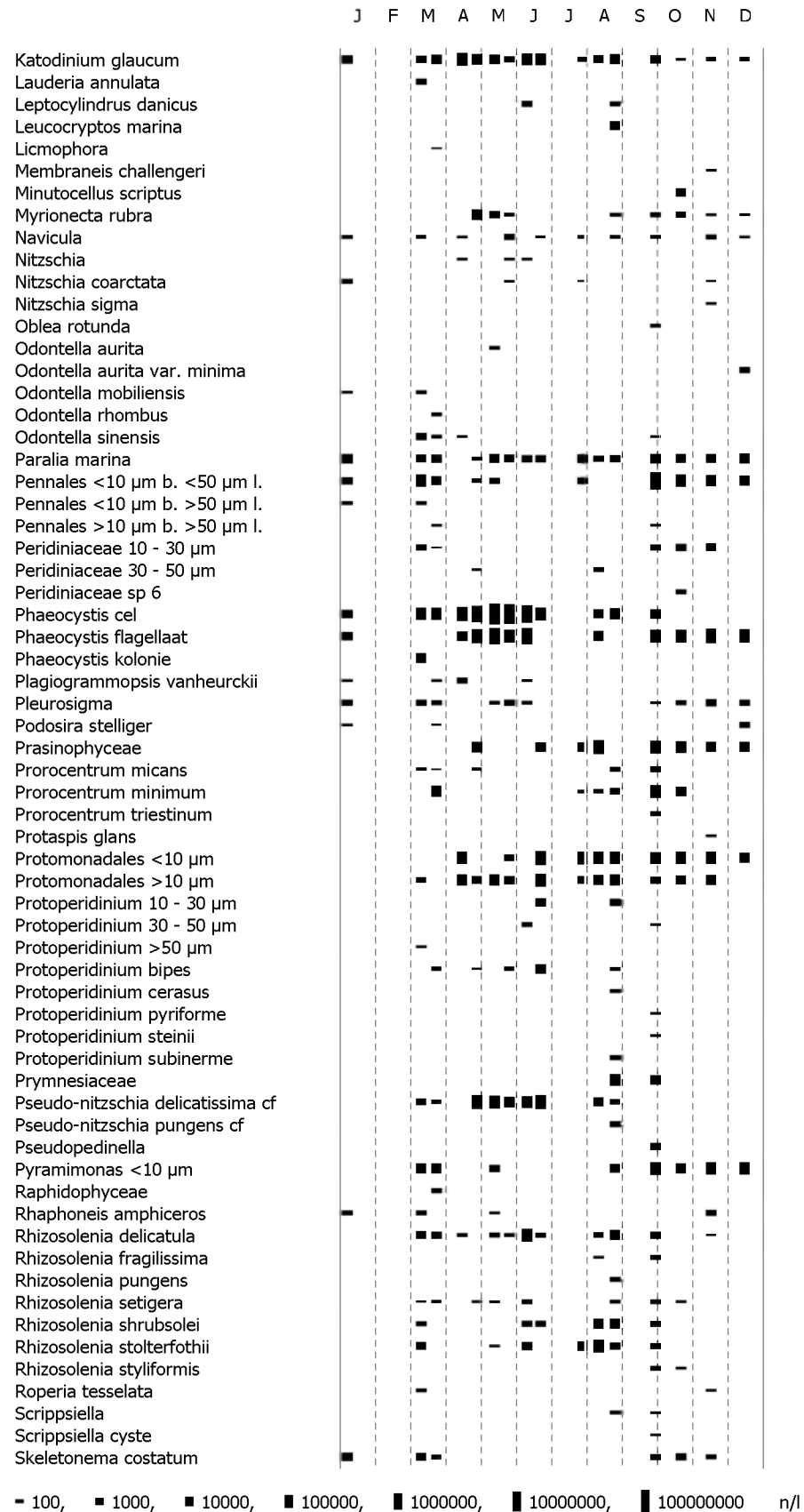
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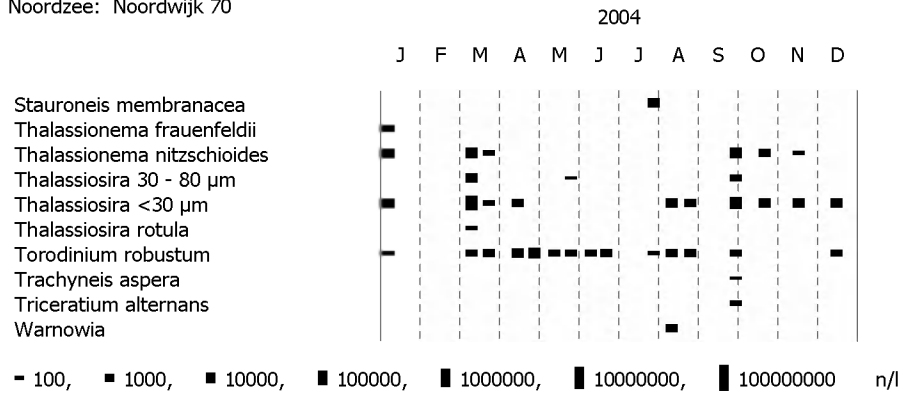
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Noordzee: Noordwijk 70

2004



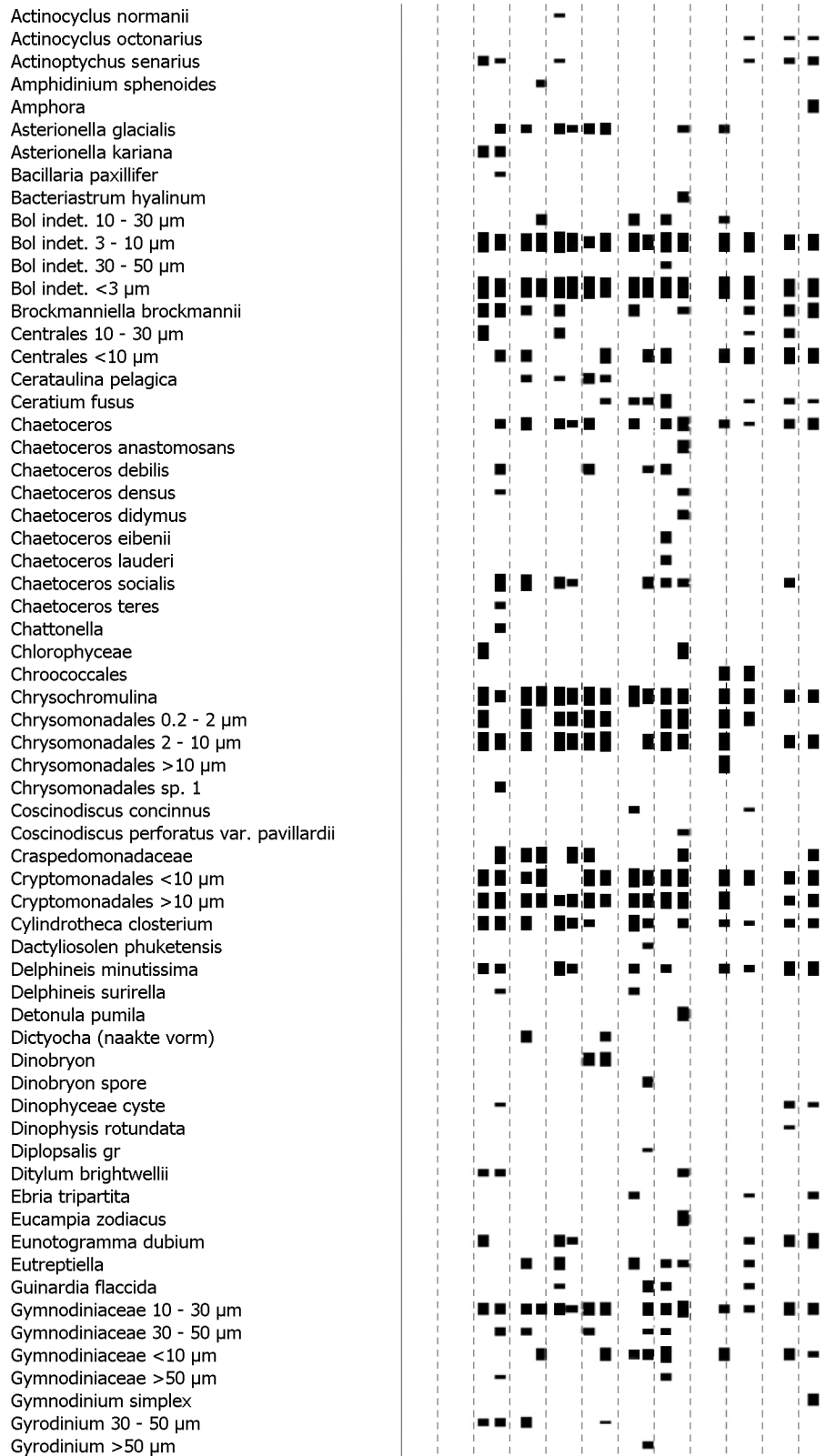
Noordzee: Noordwijk 70



Noordzee: Terschelling 4

2004

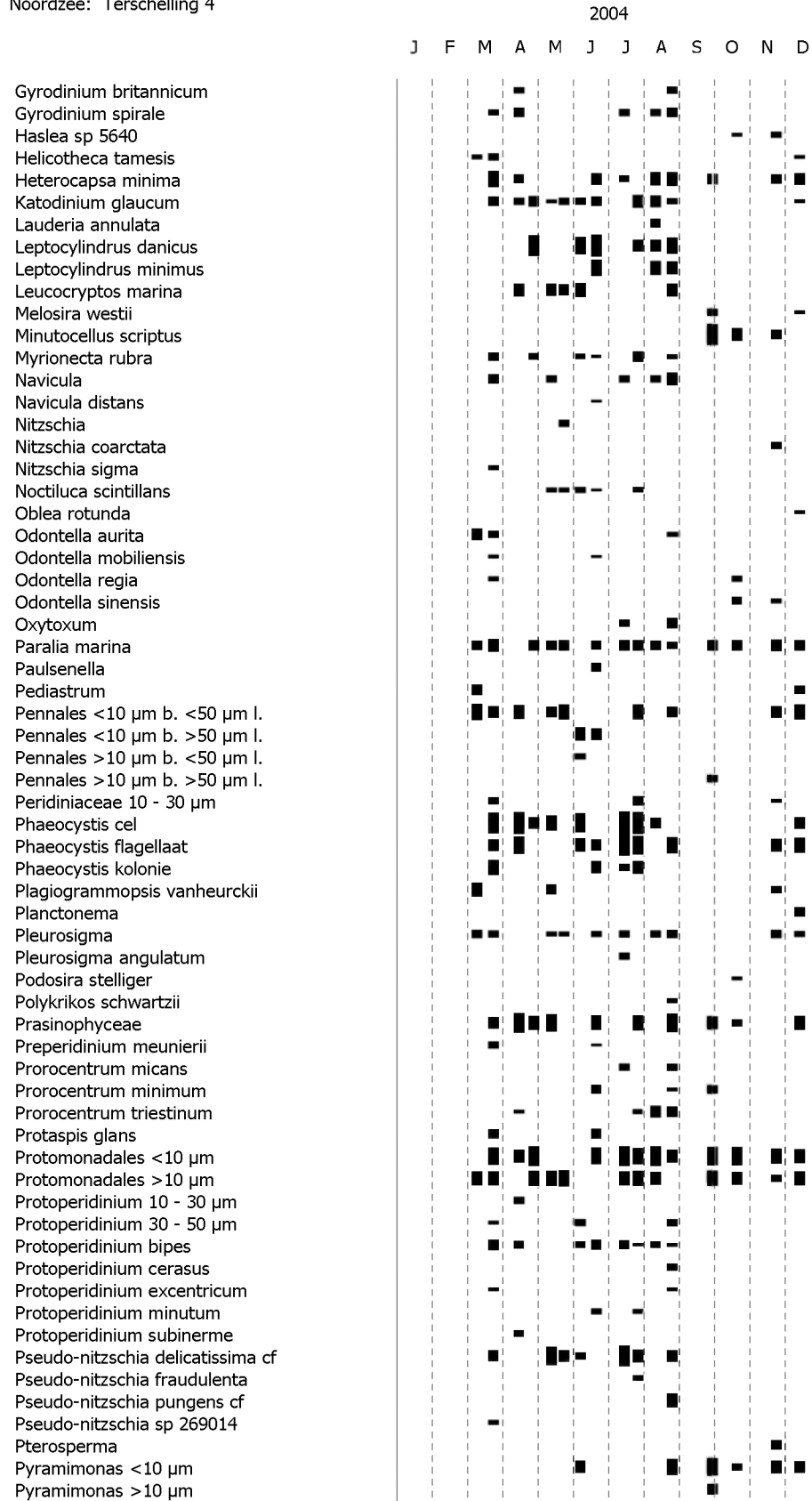
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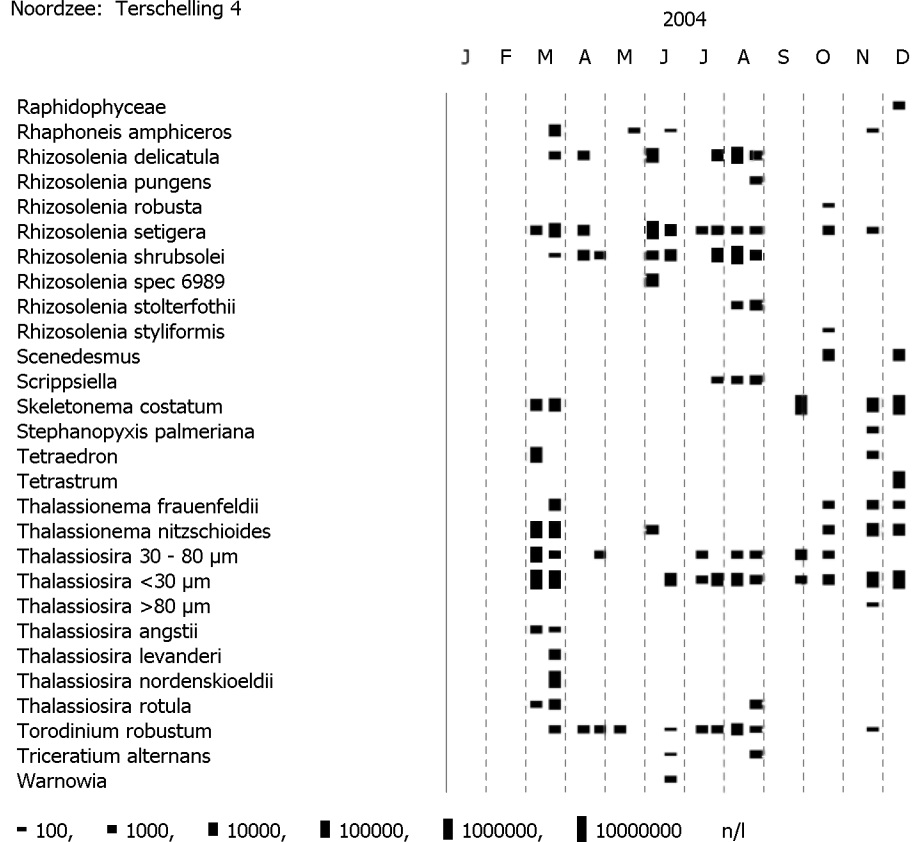


Noordzee: Terschelling 4



■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Noordzee: Terschelling 4



Noordzee: Terschelling 10

2004

J F M A M J J A S O N D

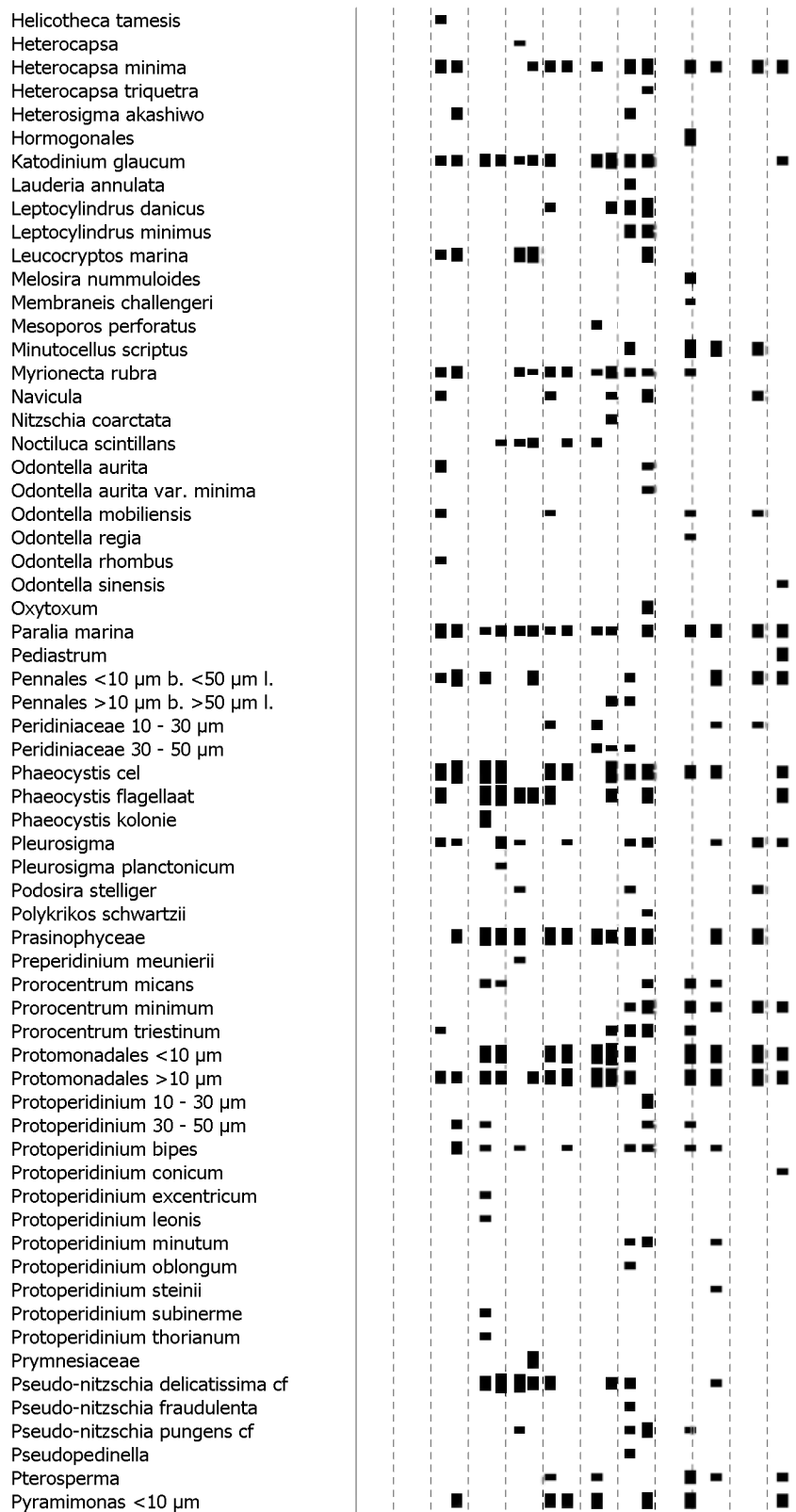


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Noordzee: Terschelling 10

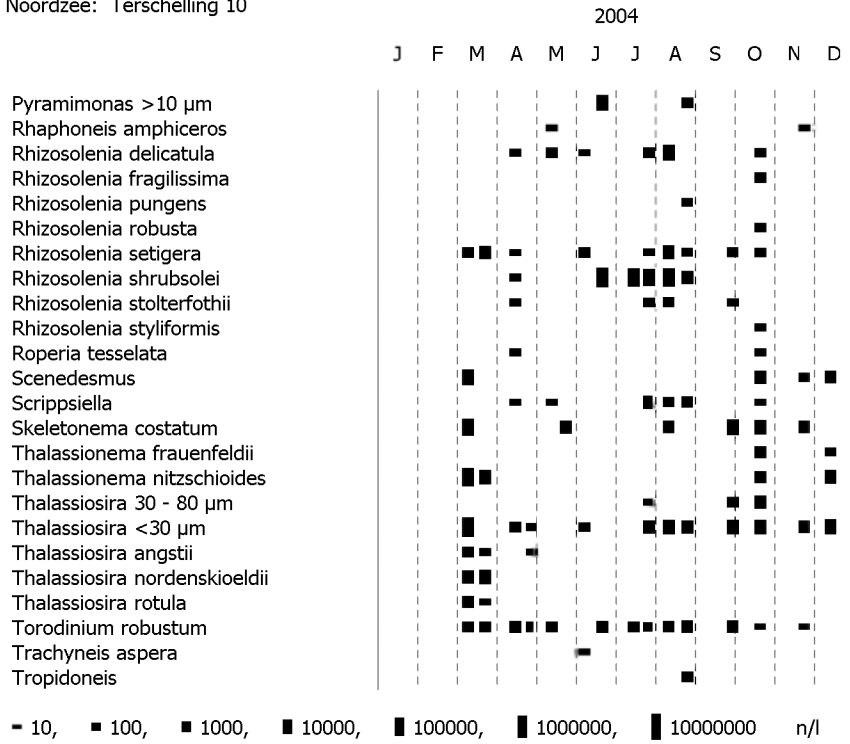
2004

J F M A M J J A S O N D



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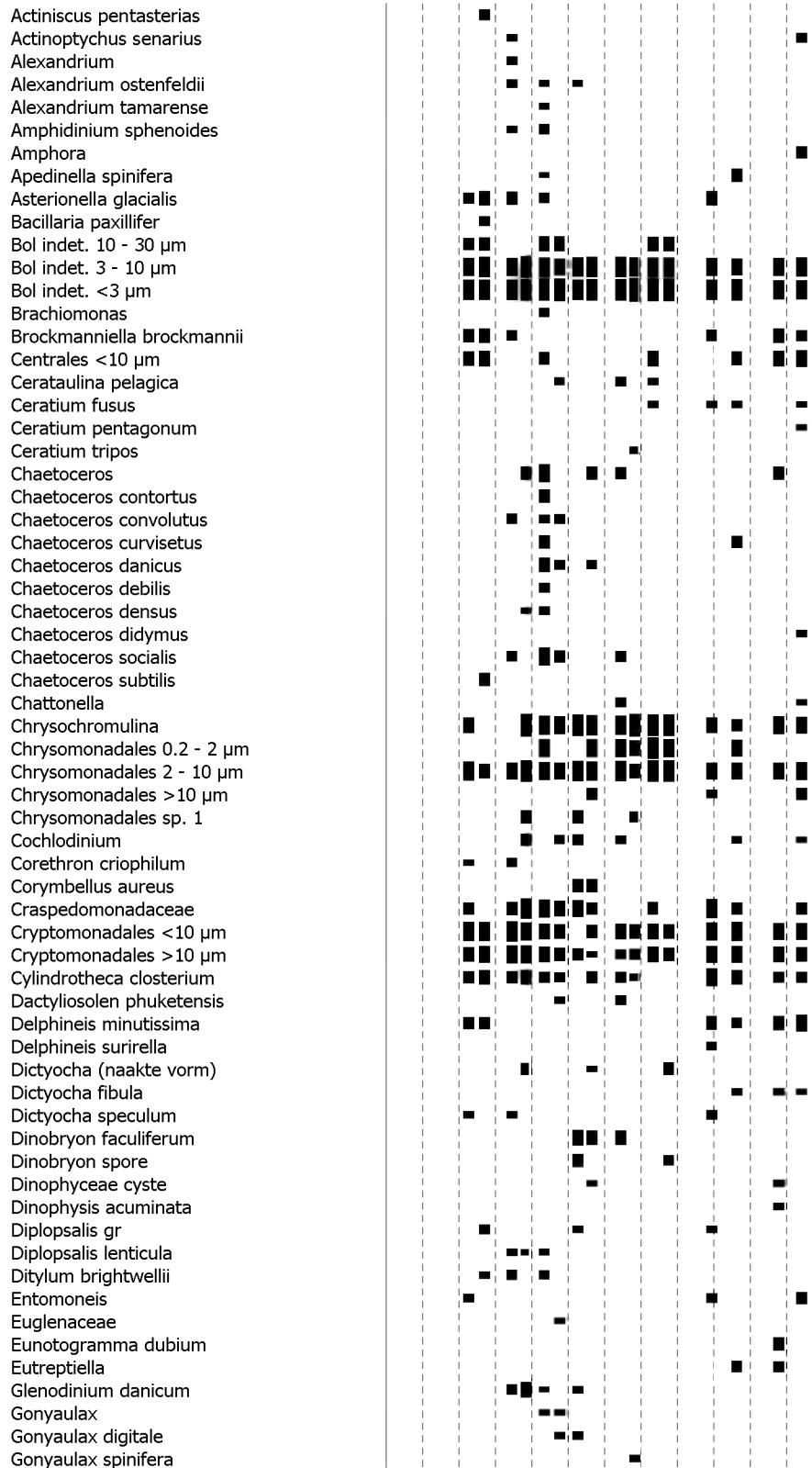
Noordzee: Terschelling 10



Noordzee: Terschelling 100 (oppervlakte laag)

2004

J F M A M J J A S O N D

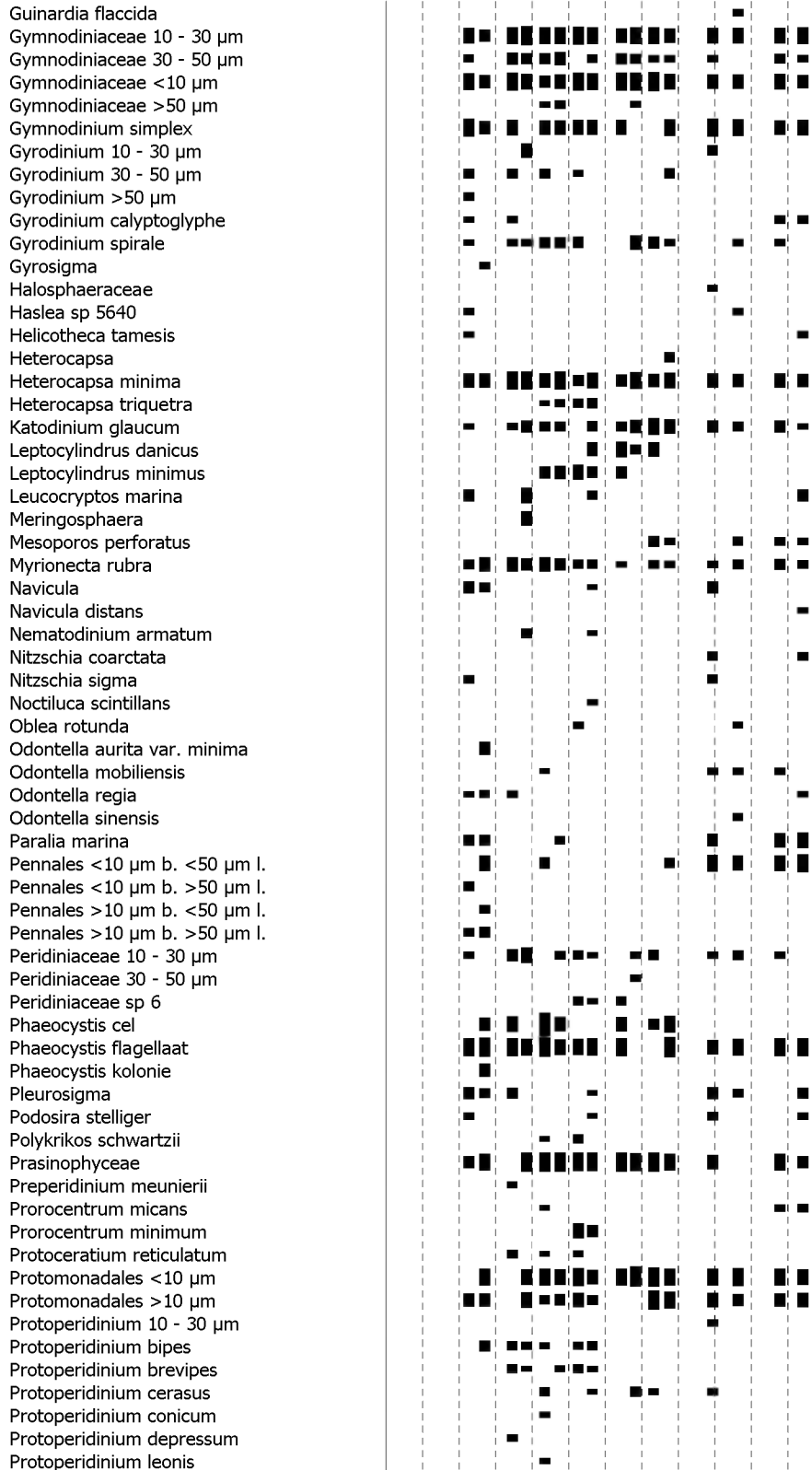


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Noordzee: Terschelling 100 (oppervlakte laag)

2004

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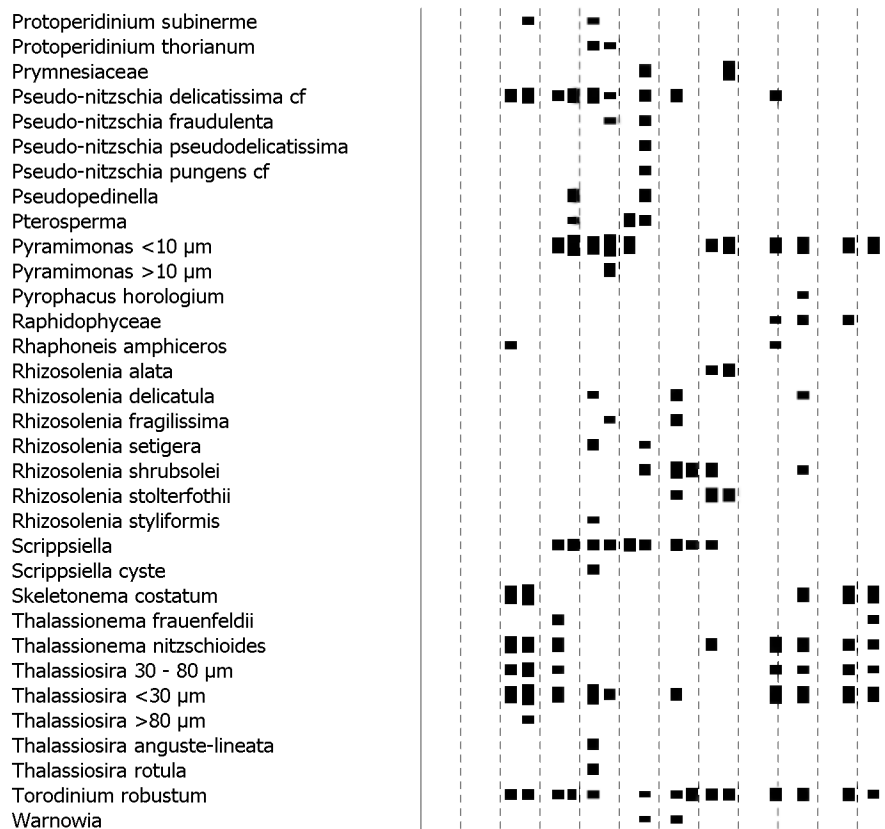


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Noordzee: Terschelling 100 (oppervlakte laag)

2004

J F M A M J J A S O N D



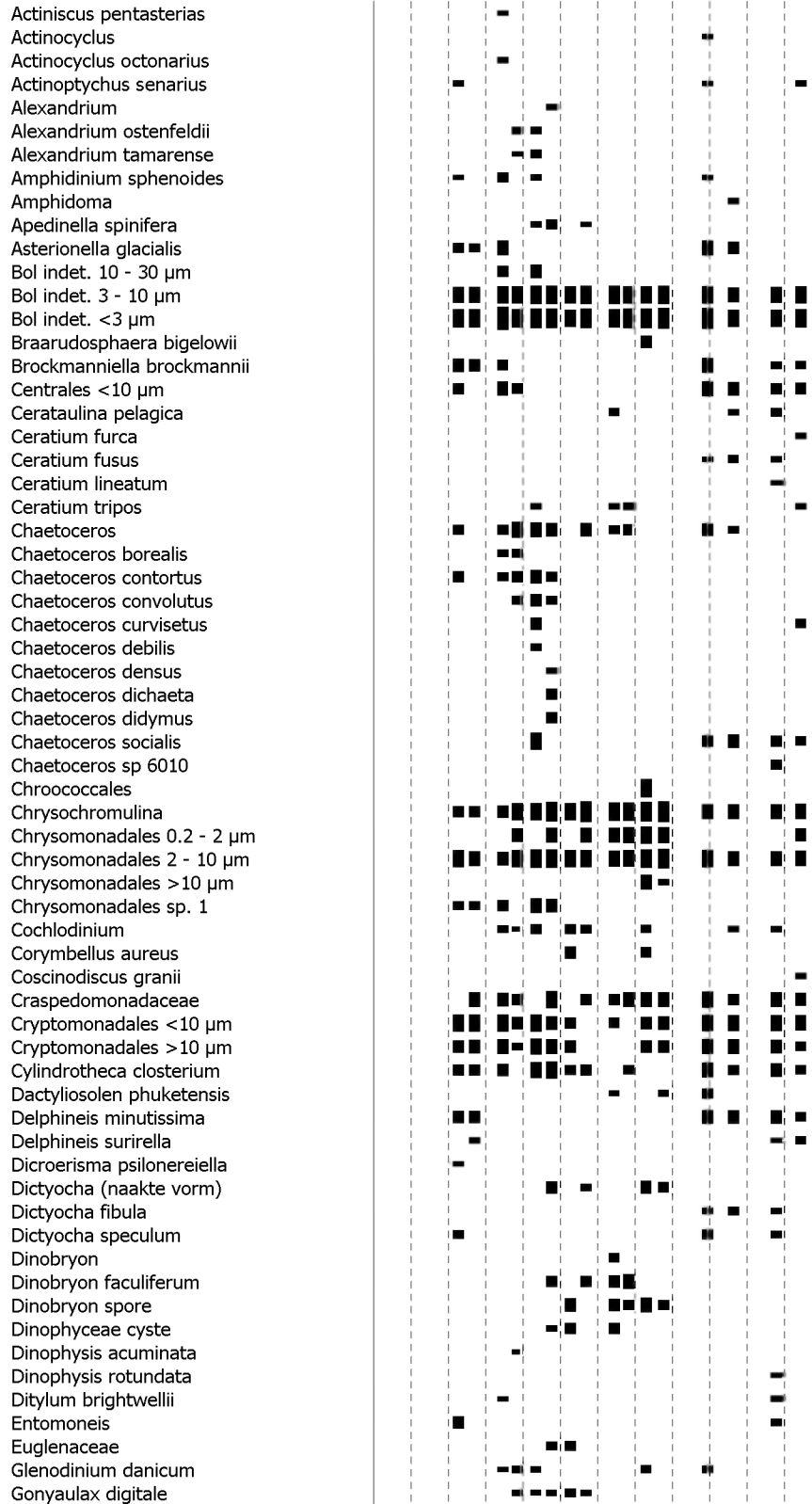
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Noordzee: Terschelling 135 (oppervlakte laag)

2004

J F M A M J J A S O N D

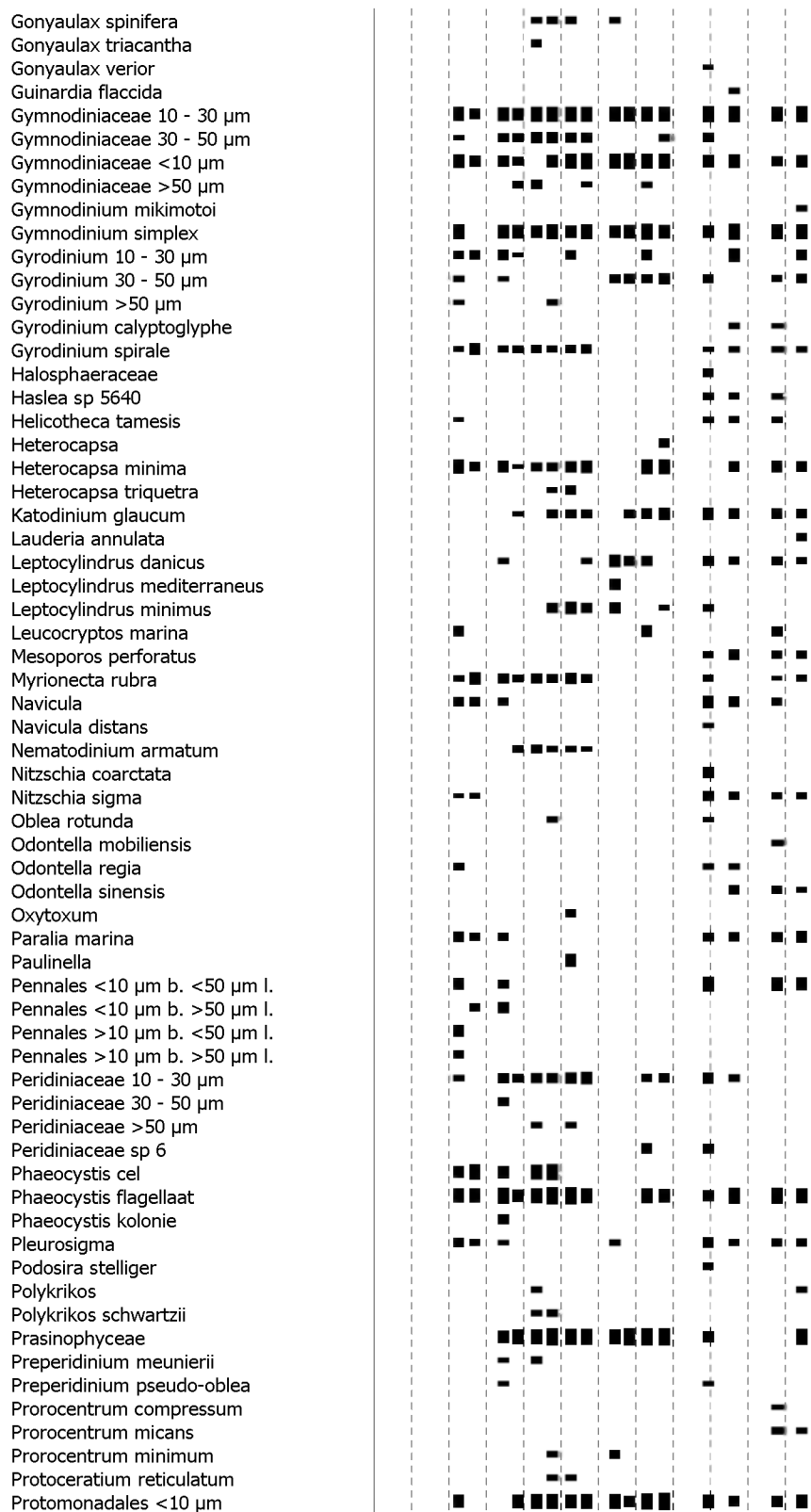


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Noordzee: Terschelling 135 (oppervlakte laag)

2004

J F M A M J J A S O N D

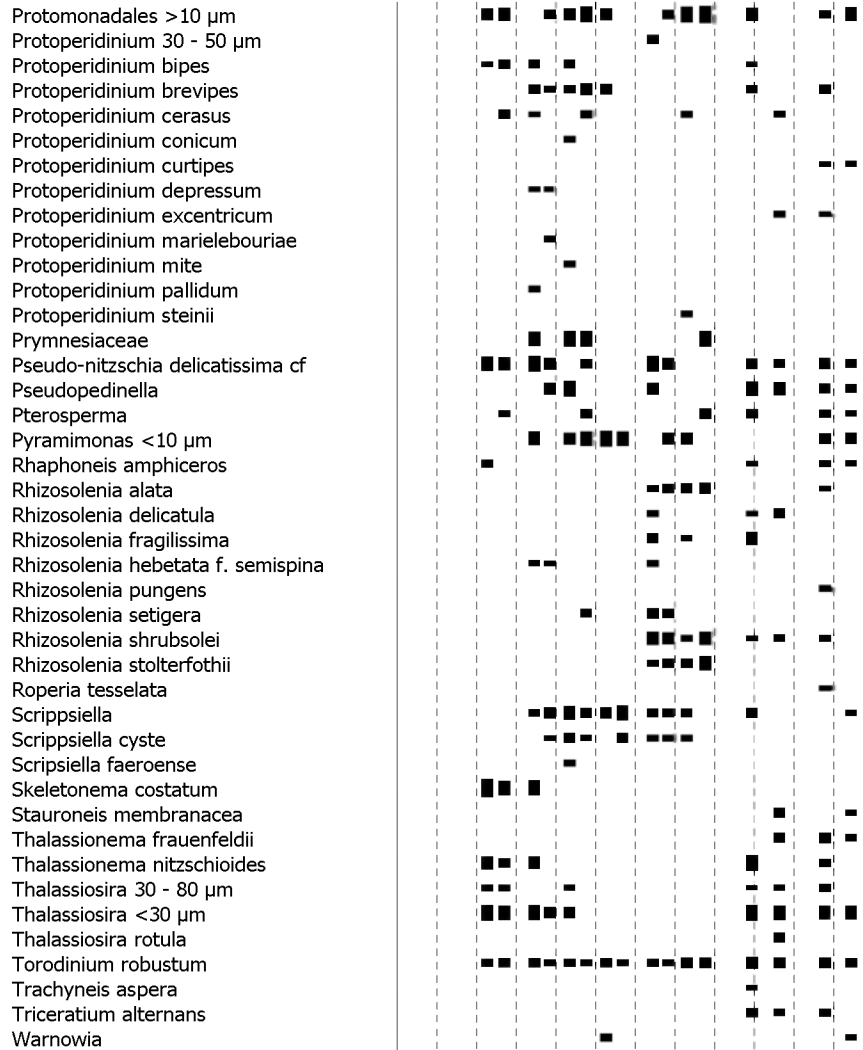


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Noordzee: Terschelling 135 (oppervlakte laag)

2004

J F M A M J J A S O N D

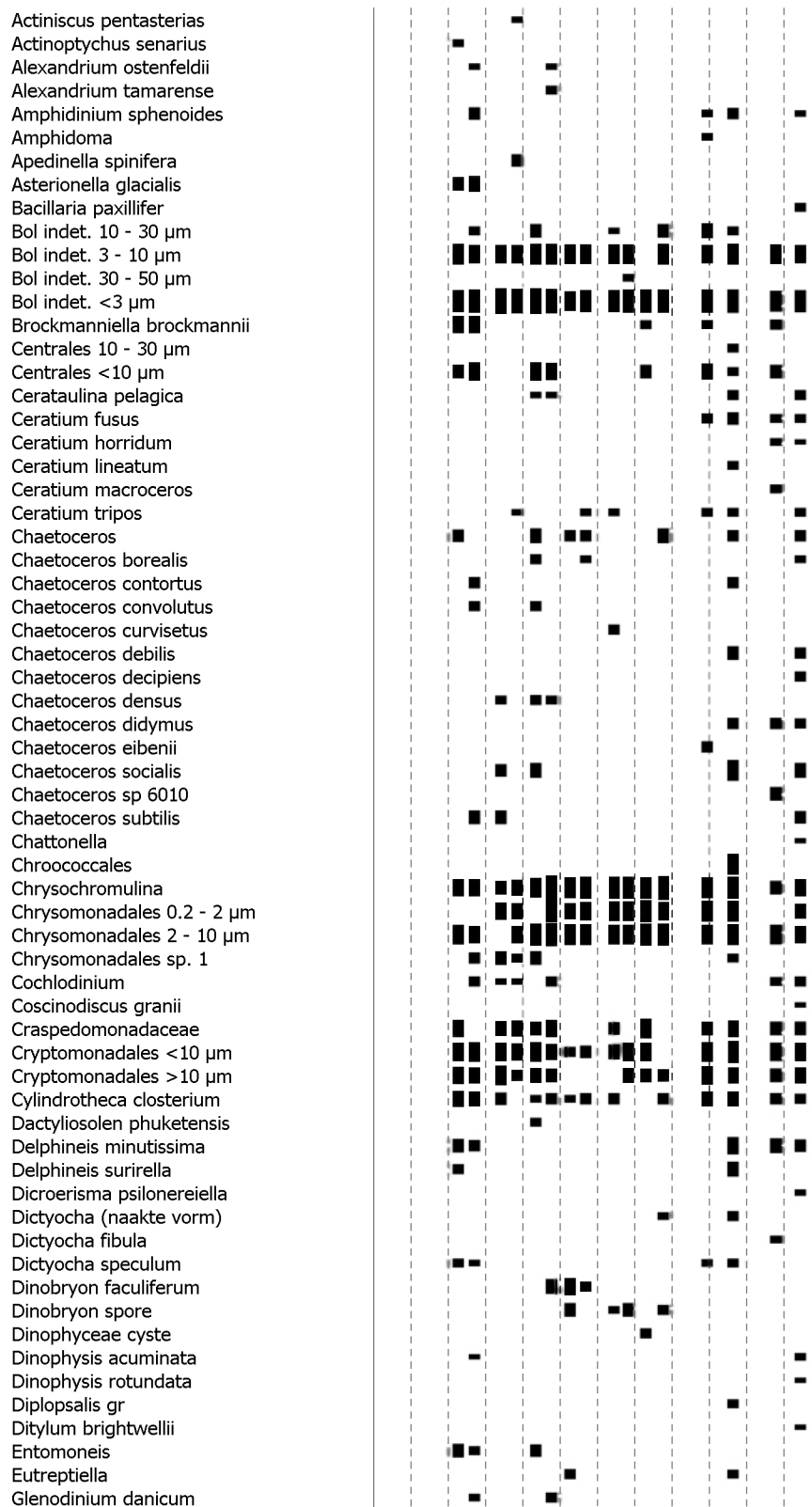


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Noordzee: Terschelling 175 (oppervlakte laag)

2004

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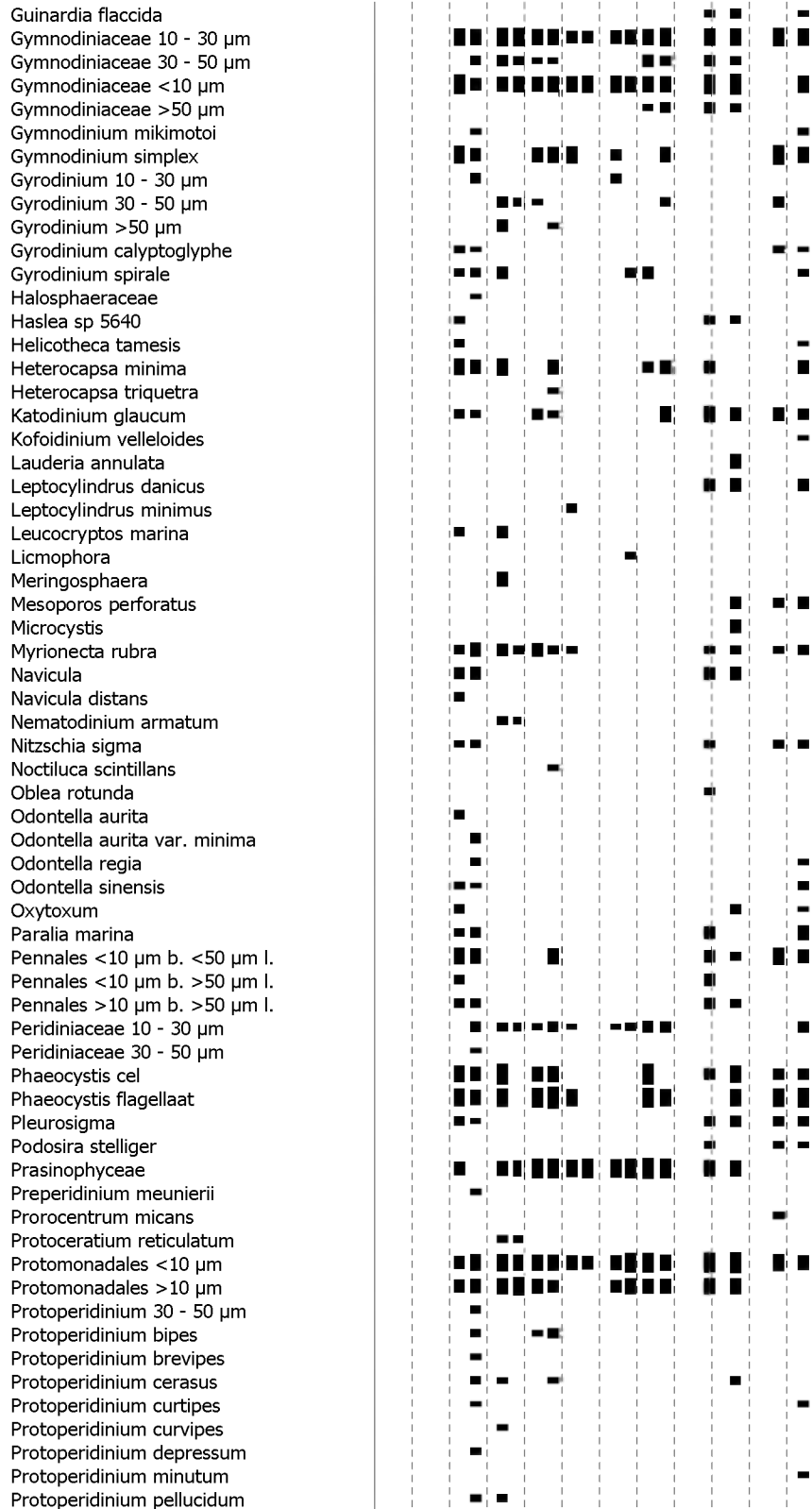


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Noordzee: Terschelling 175 (oppervlakte laag)

2004

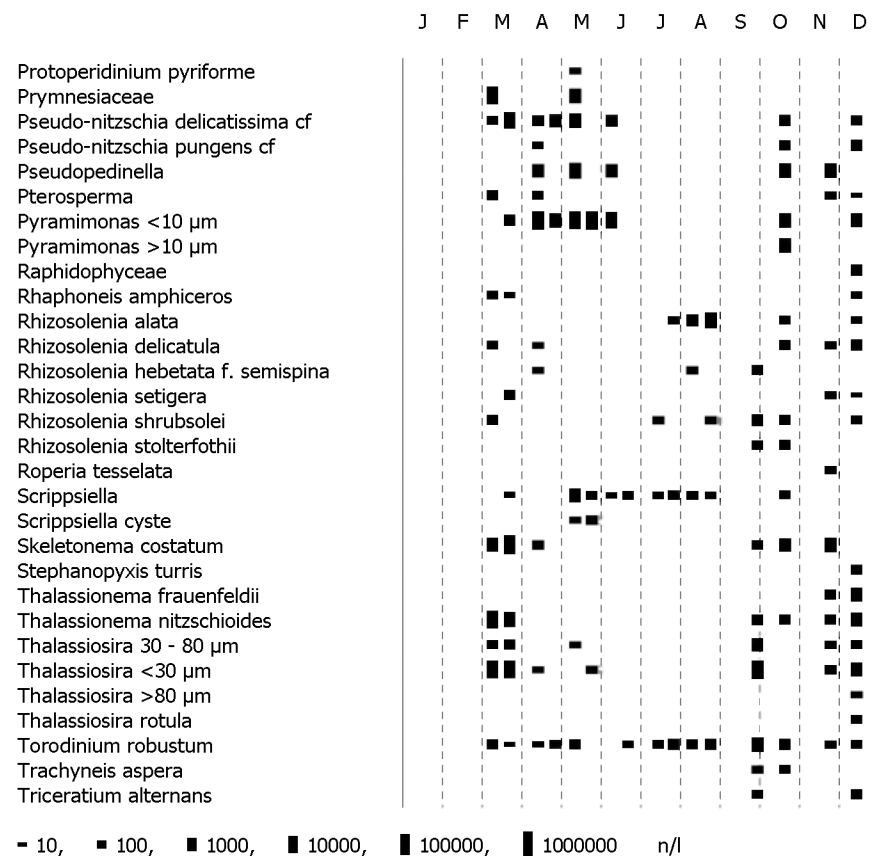
J F M A M J J A S O N D



- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 175 (oppervlakte laag)

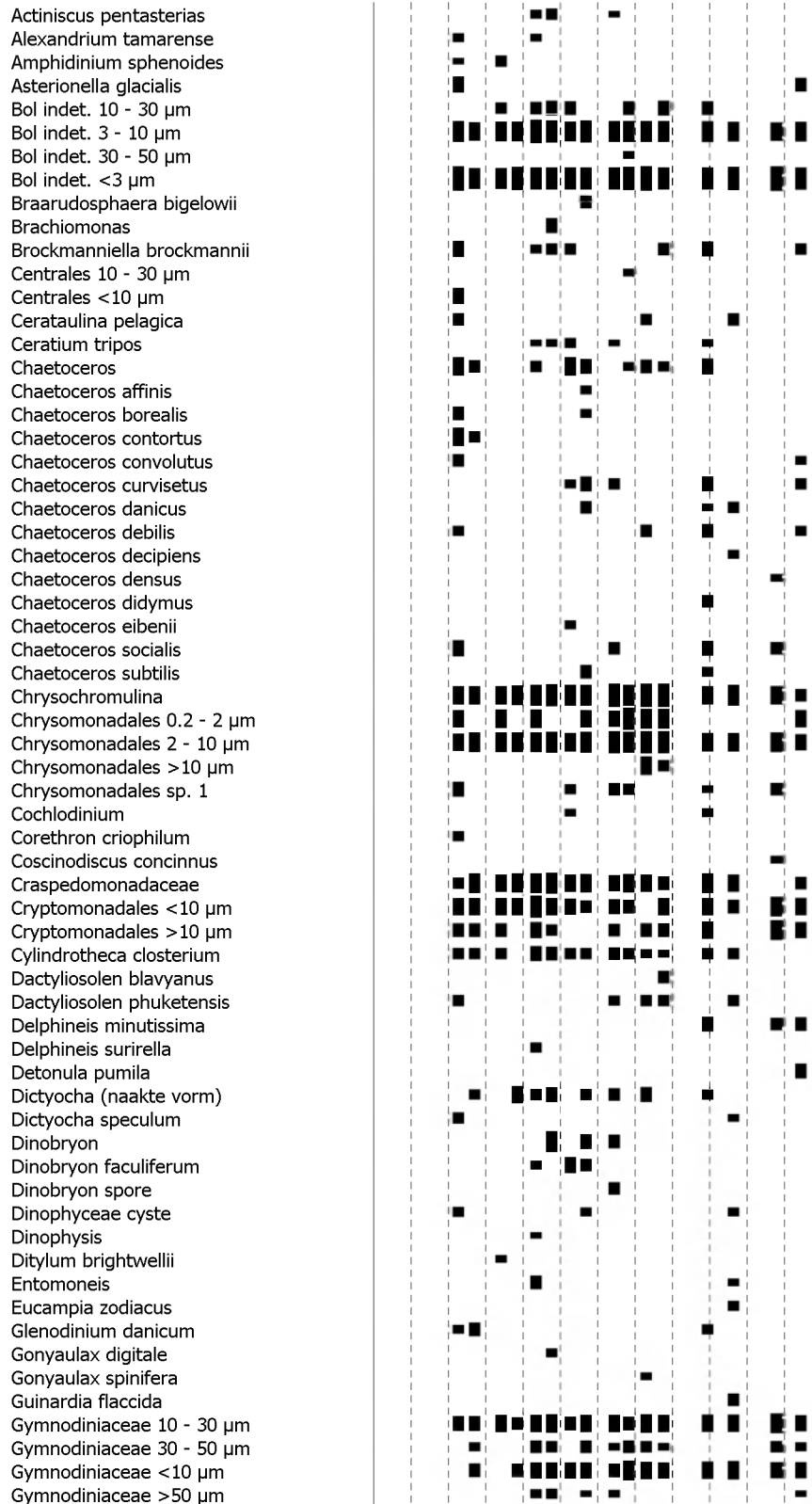
2004



Noordzee: Terschelling 235 (oppervlakte laag)

2004

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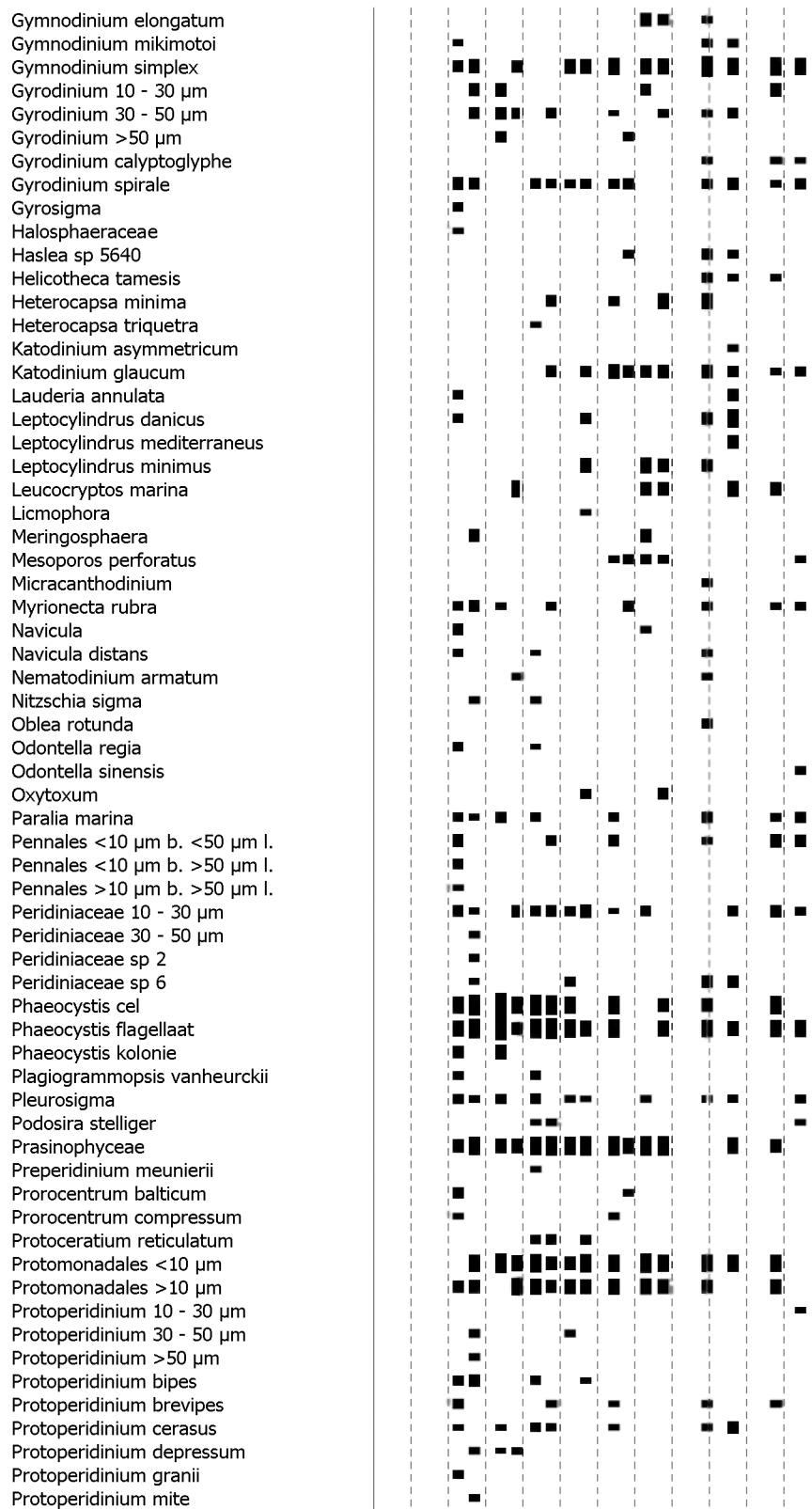


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Noordzee: Terschelling 235 (oppervlakte laag)

2004

J F M A M J J A S O N D



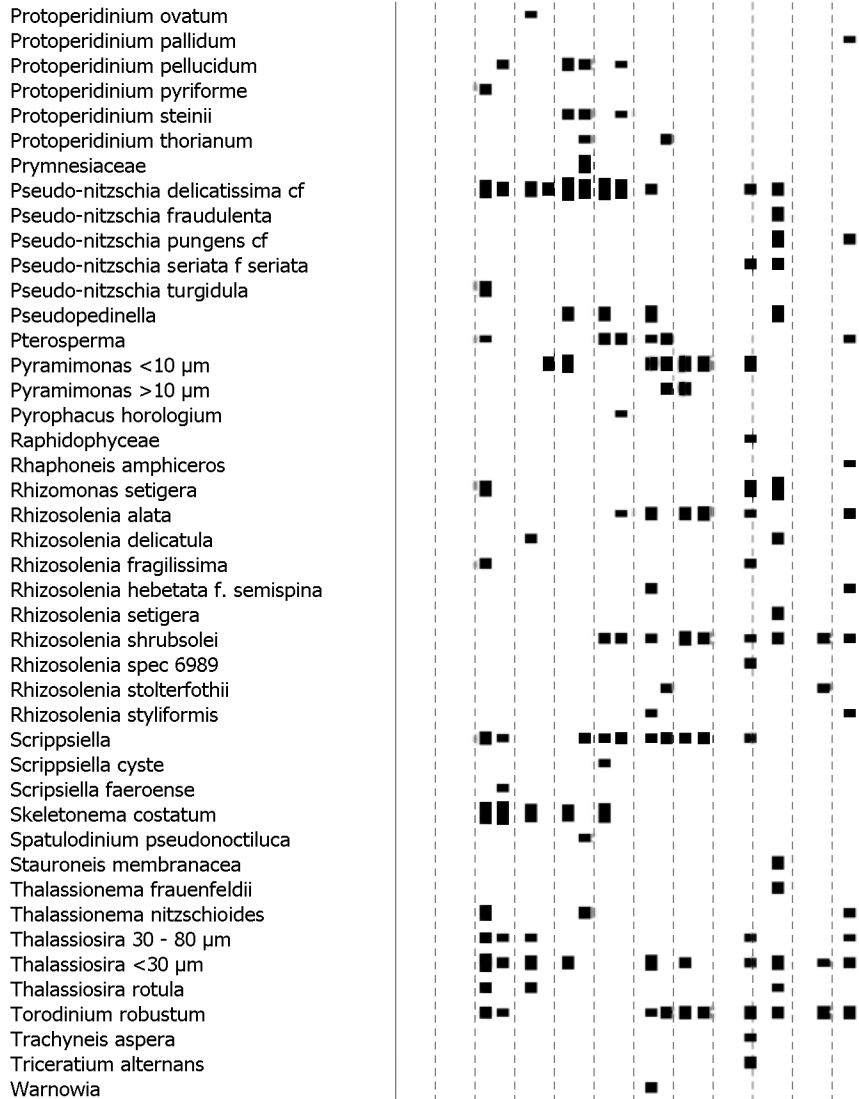
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Noordzee: Terschelling 235 (oppervlakte laag)

2004

J F M A M J J A S O N D

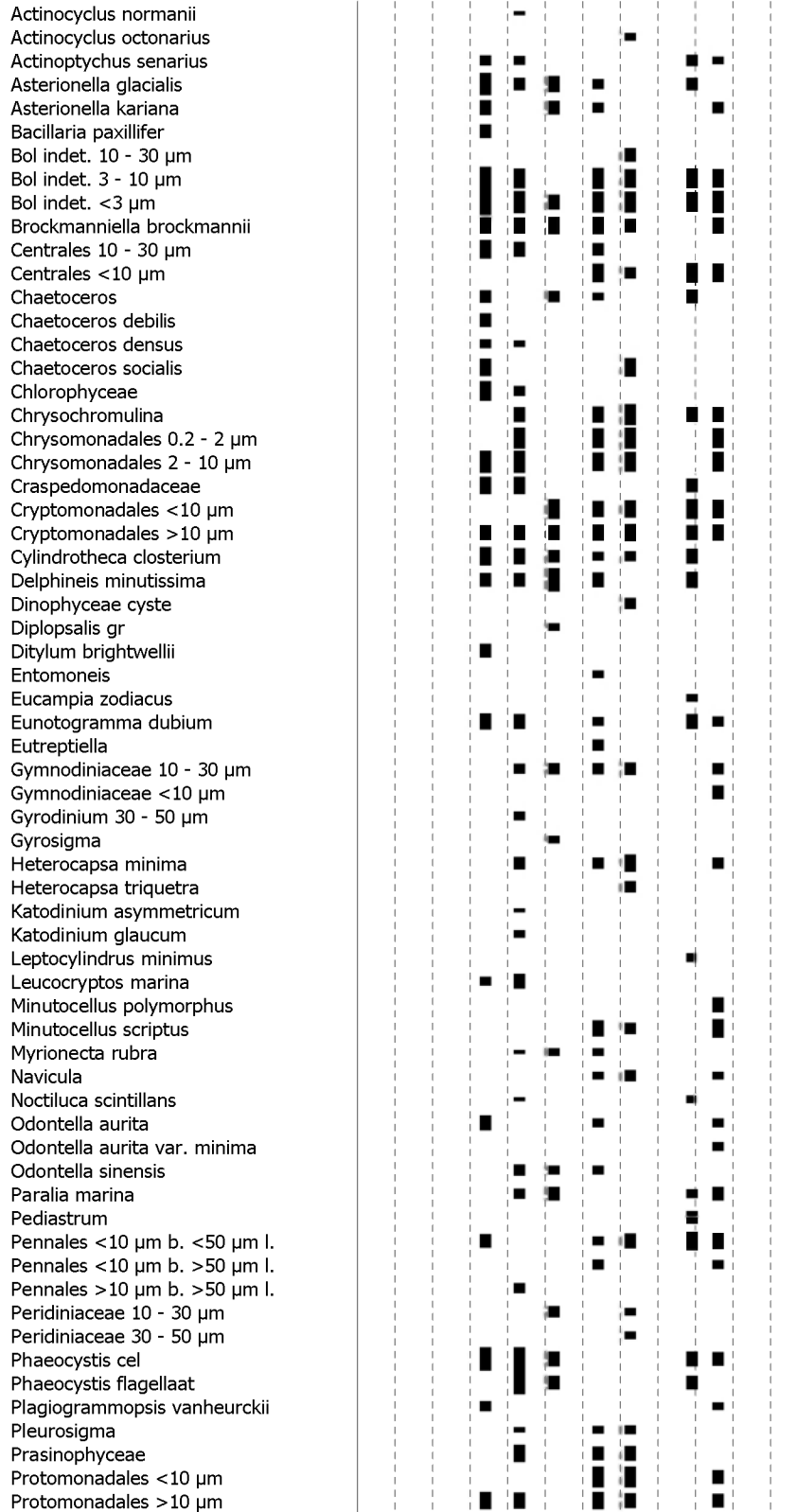


- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Rottumerplaat 3

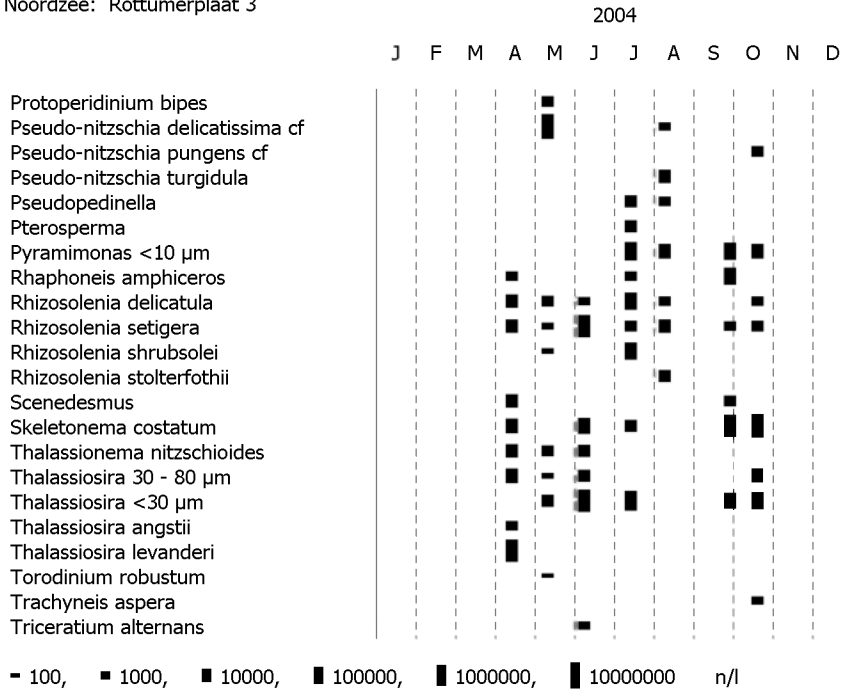
2004

J F M A M J J A S O N D



- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

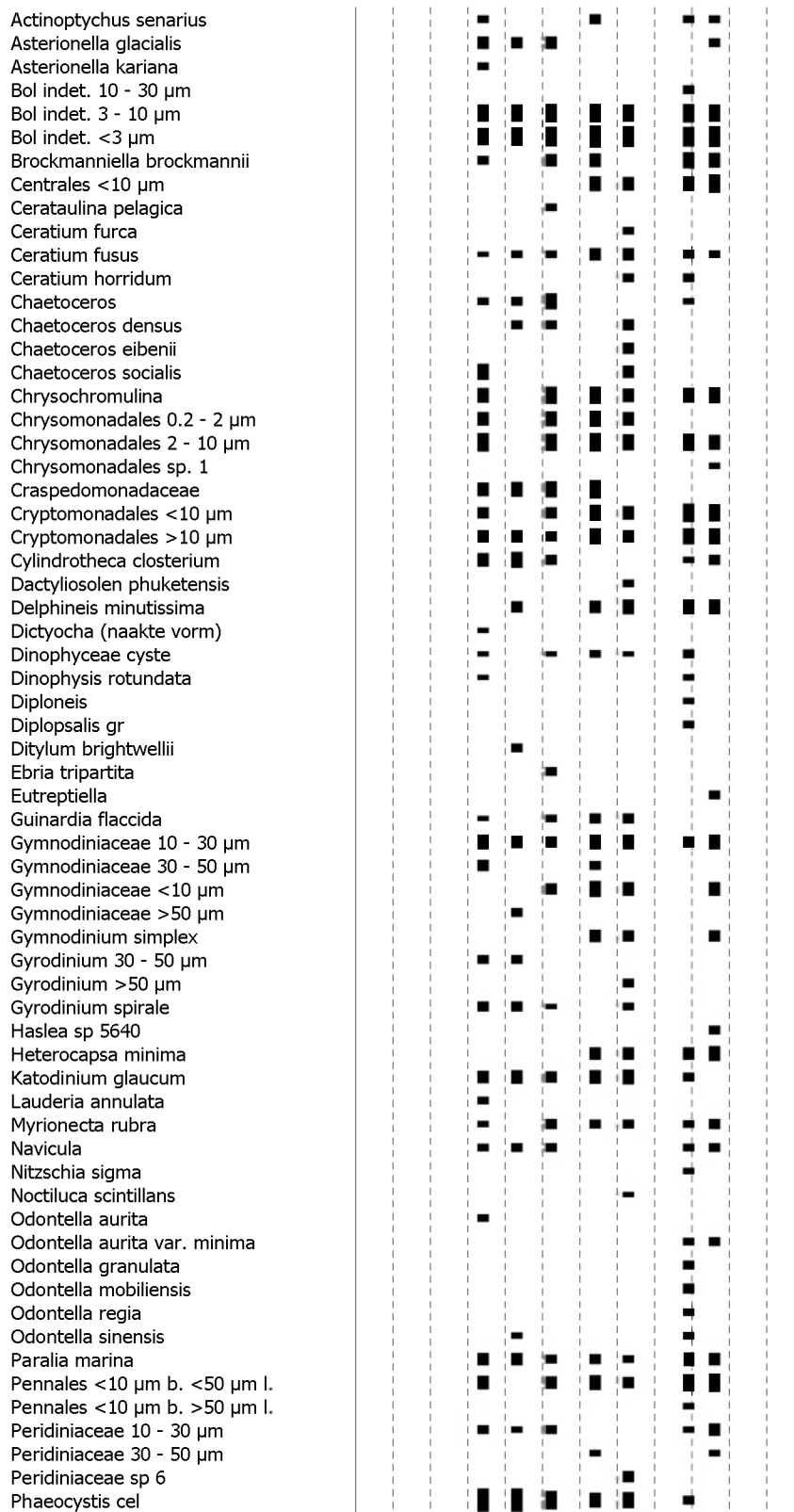
Noordzee: Rottumerplaat 3



Noordzee: Rottumerplaat 50

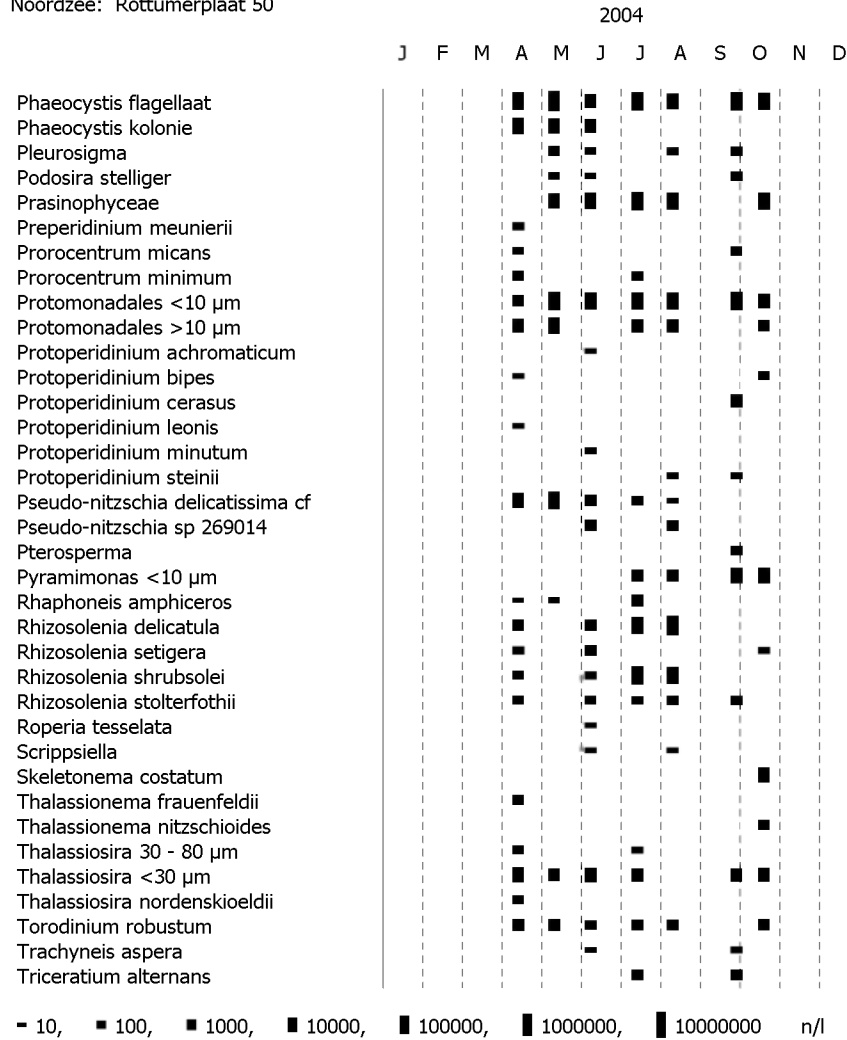
2004

J F M A M J J A S O N D



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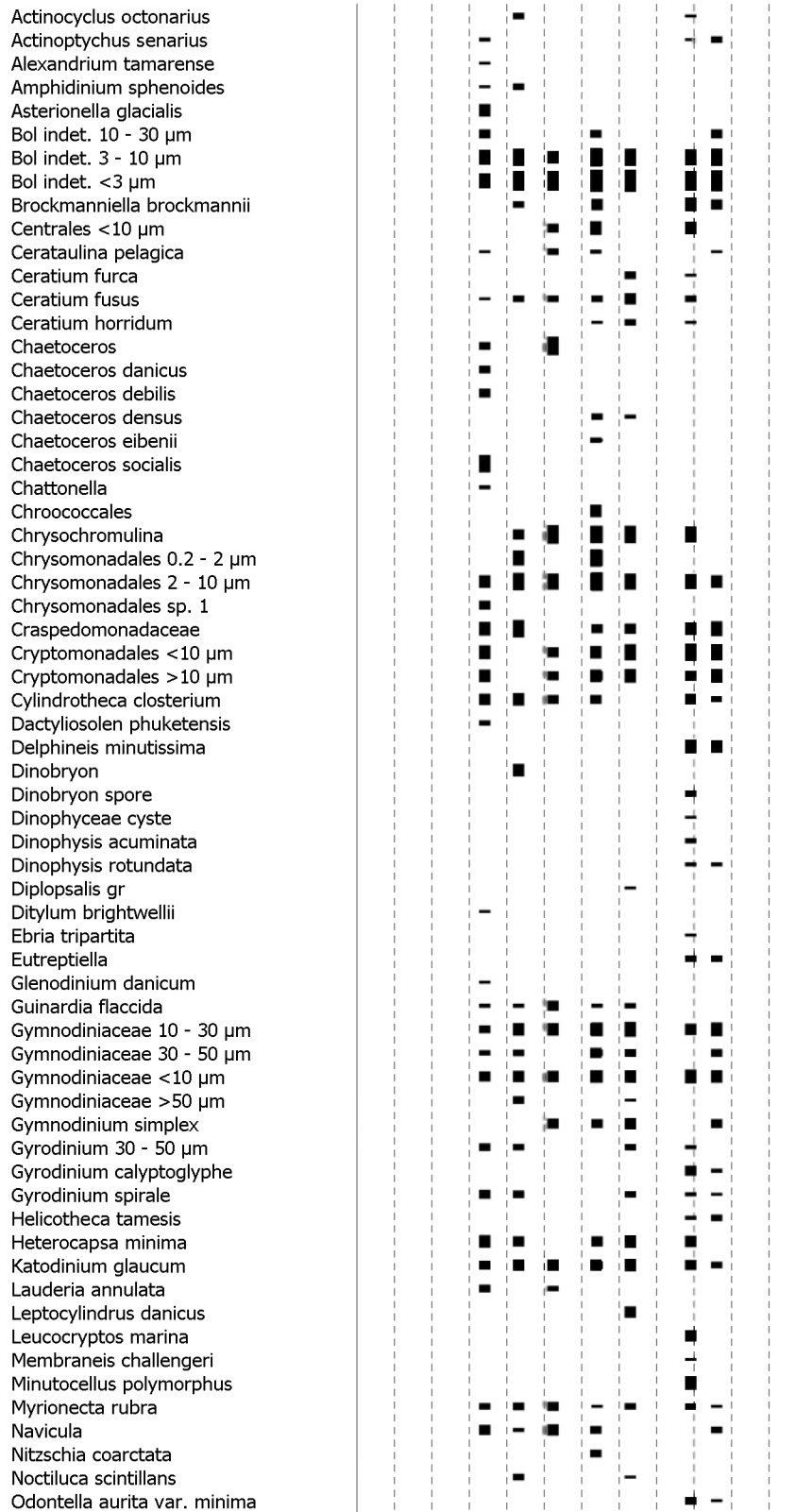
Noordzee: Rottumerplaat 50



Noordzee: Rottumerplaat 70 (oppervlakte laag)

2004

J F M A M J J A S O N D

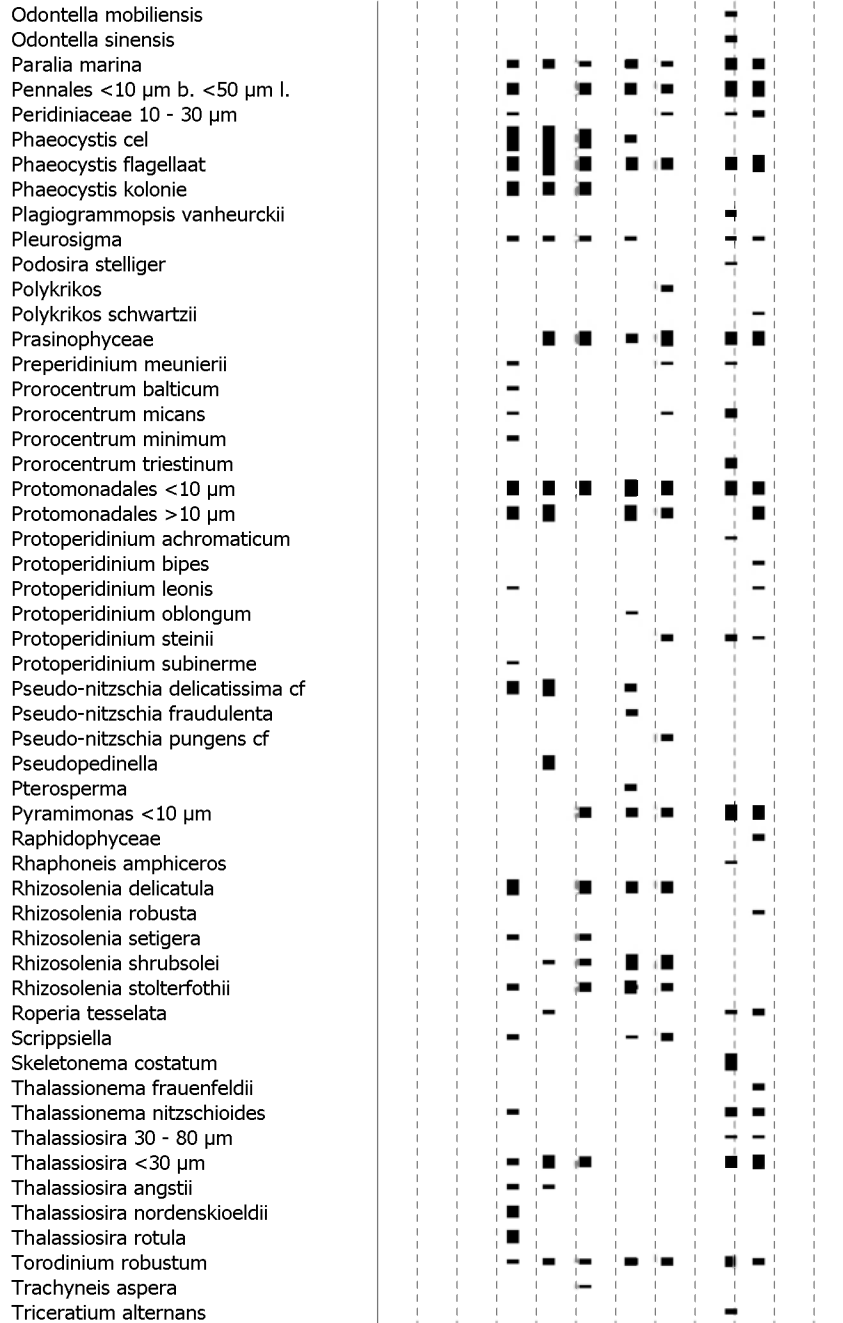


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Noordzee: Rottumerplaat 70 (oppervlakte laag)

2004

J F M A M J J A S O N D

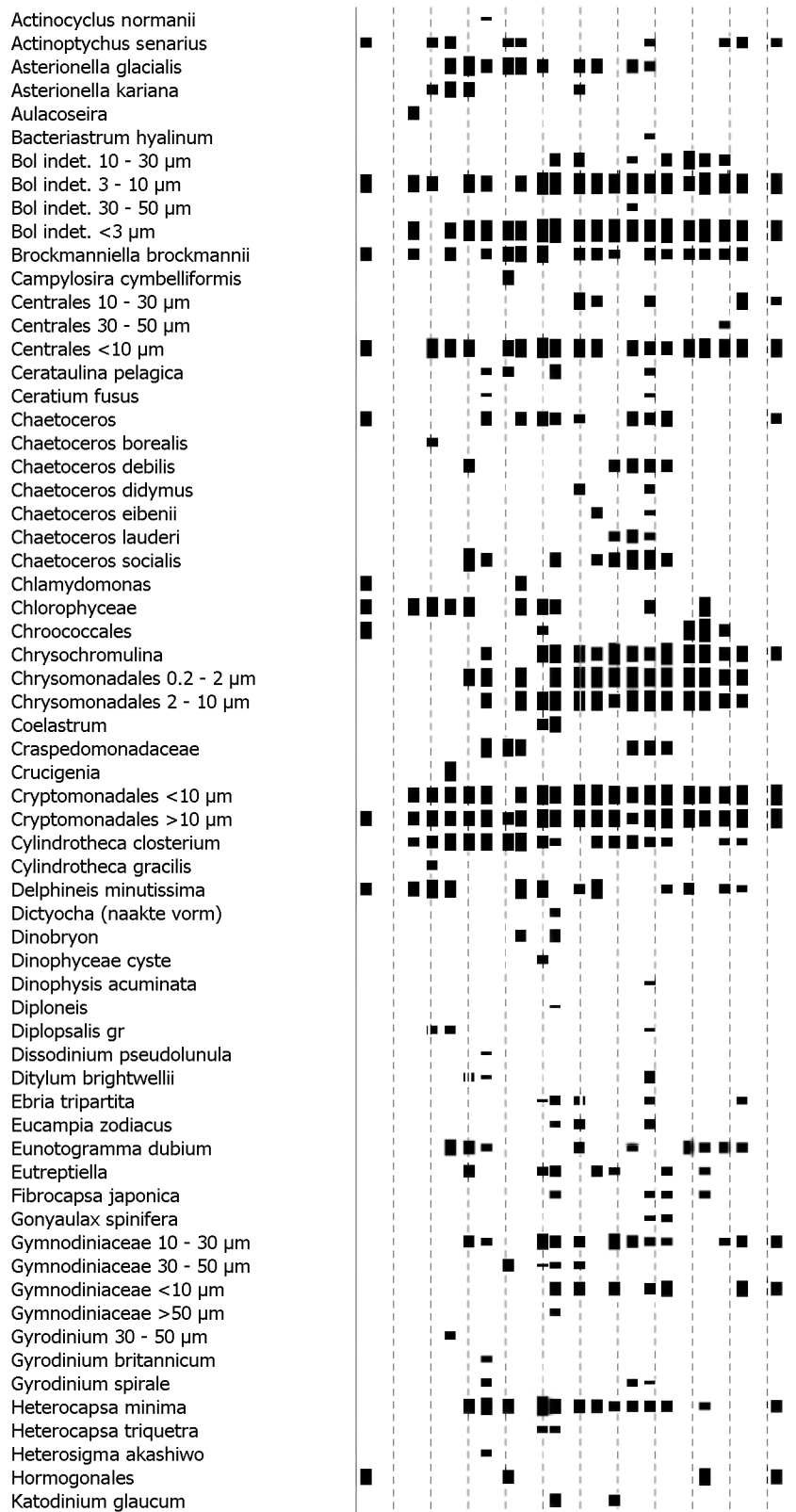


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## Waddenzee: Marsdiep Noord

2004

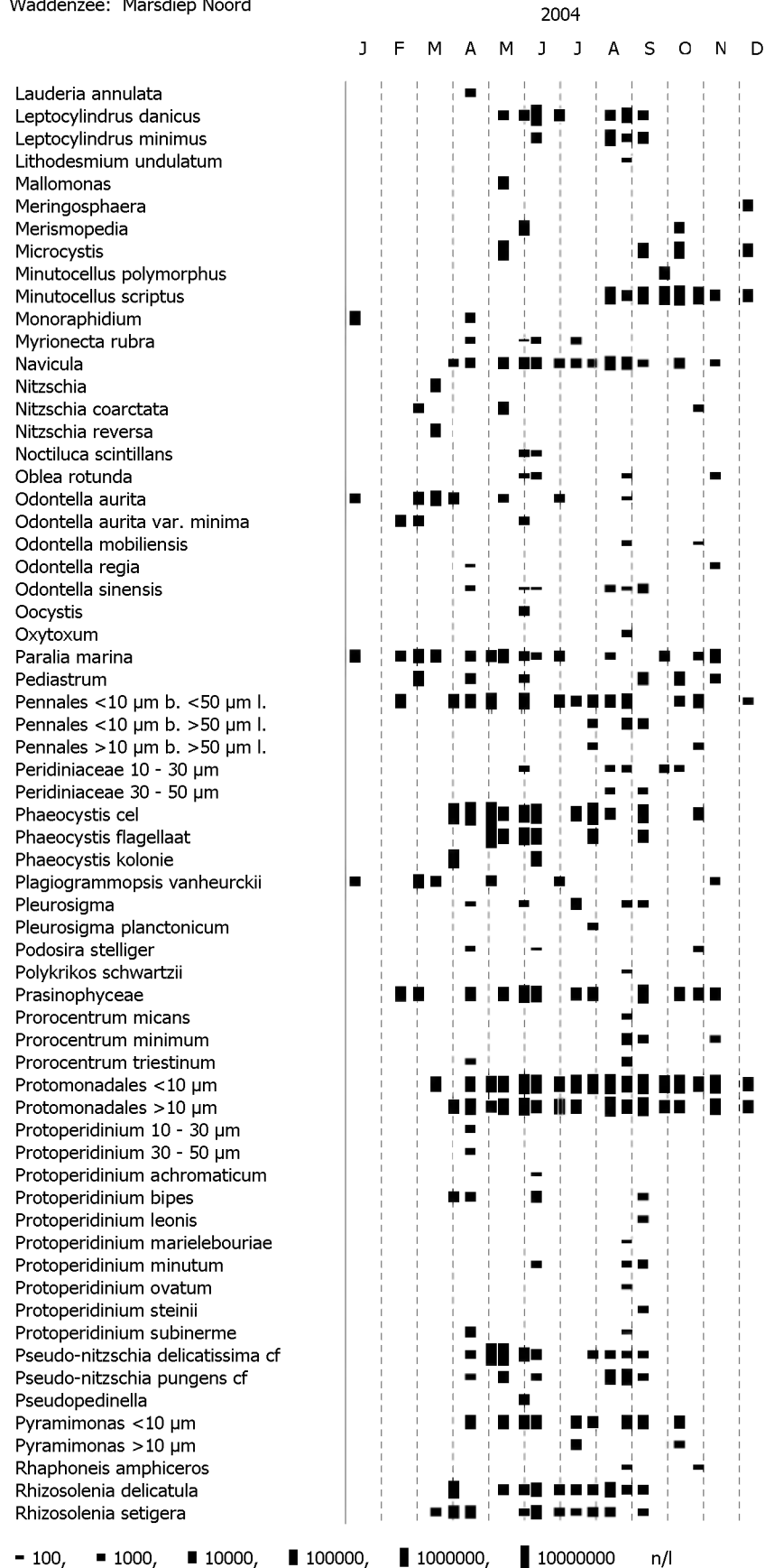
J F M A M J J A S O N D



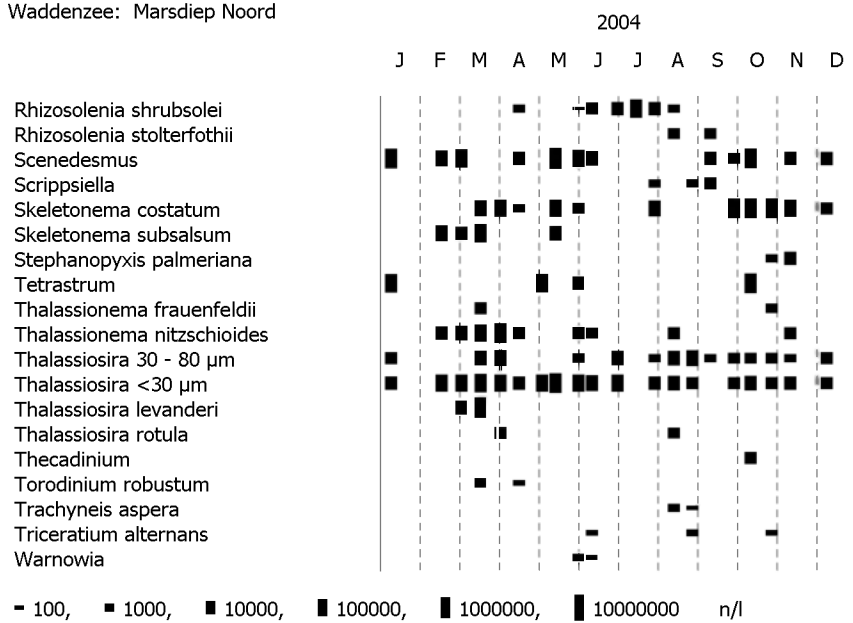
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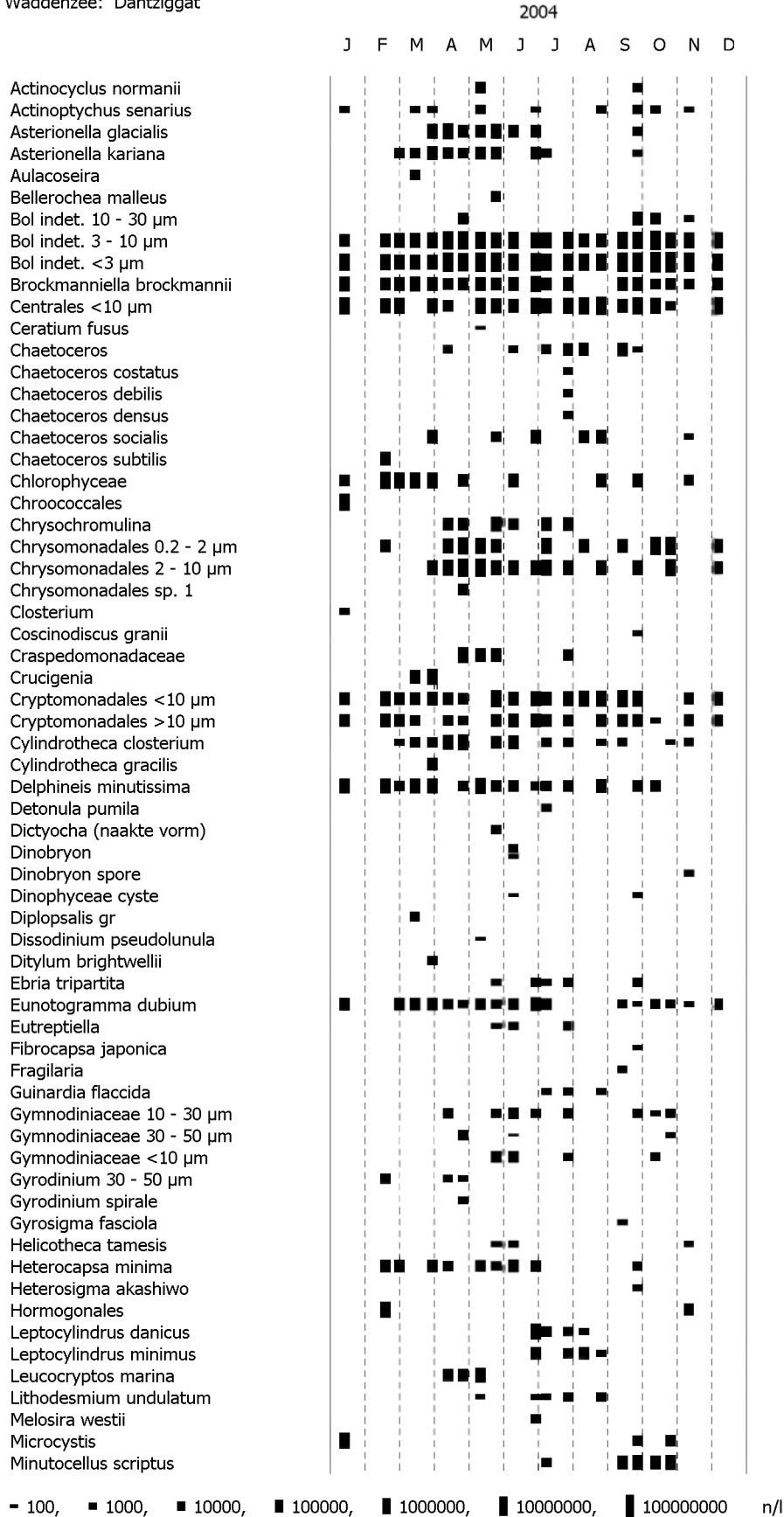
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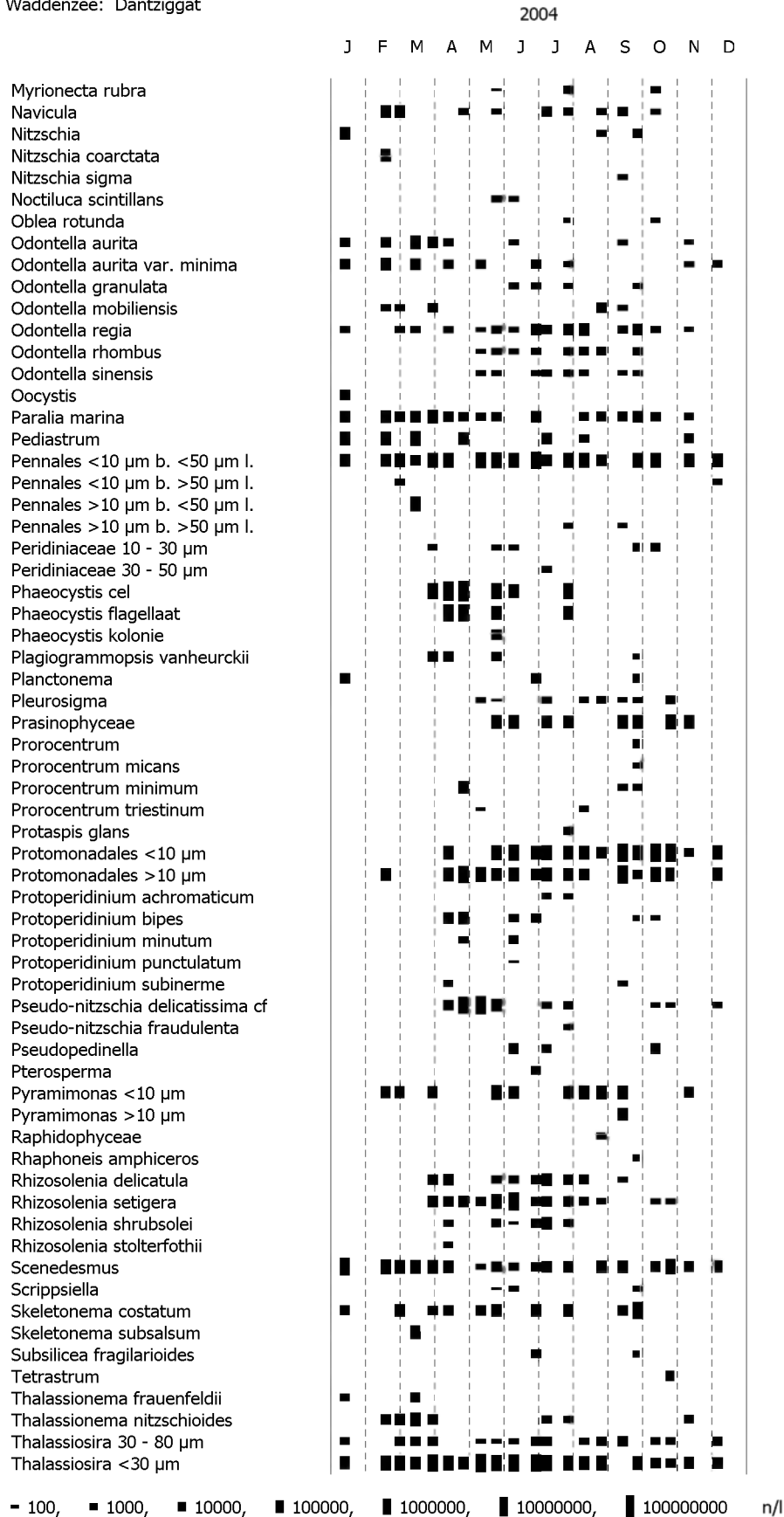
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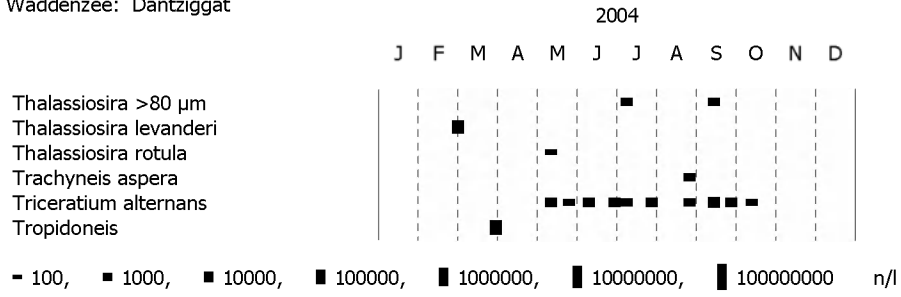
Waddenzee: Dantziggat



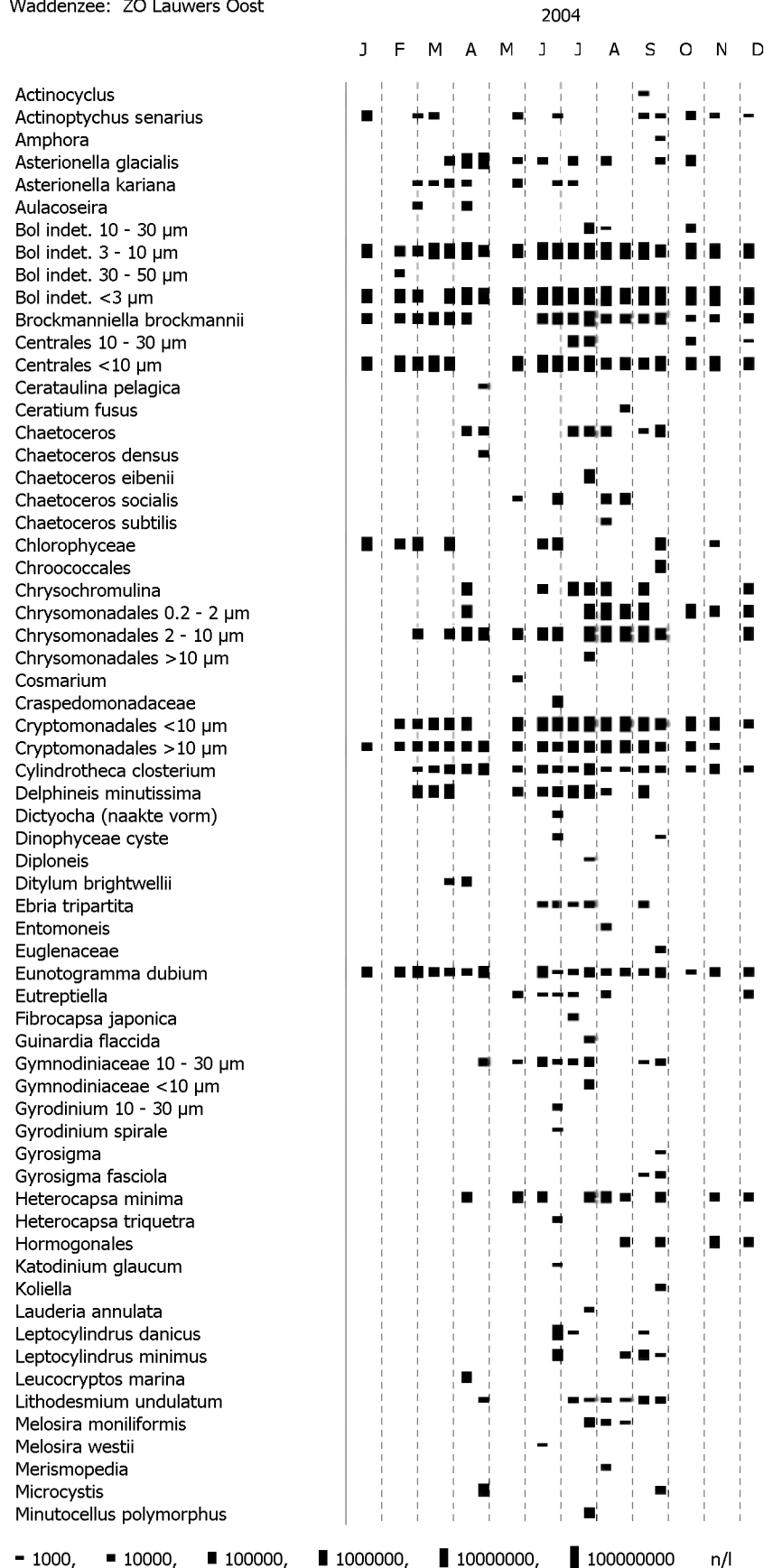
Waddenzee: Dantziggat



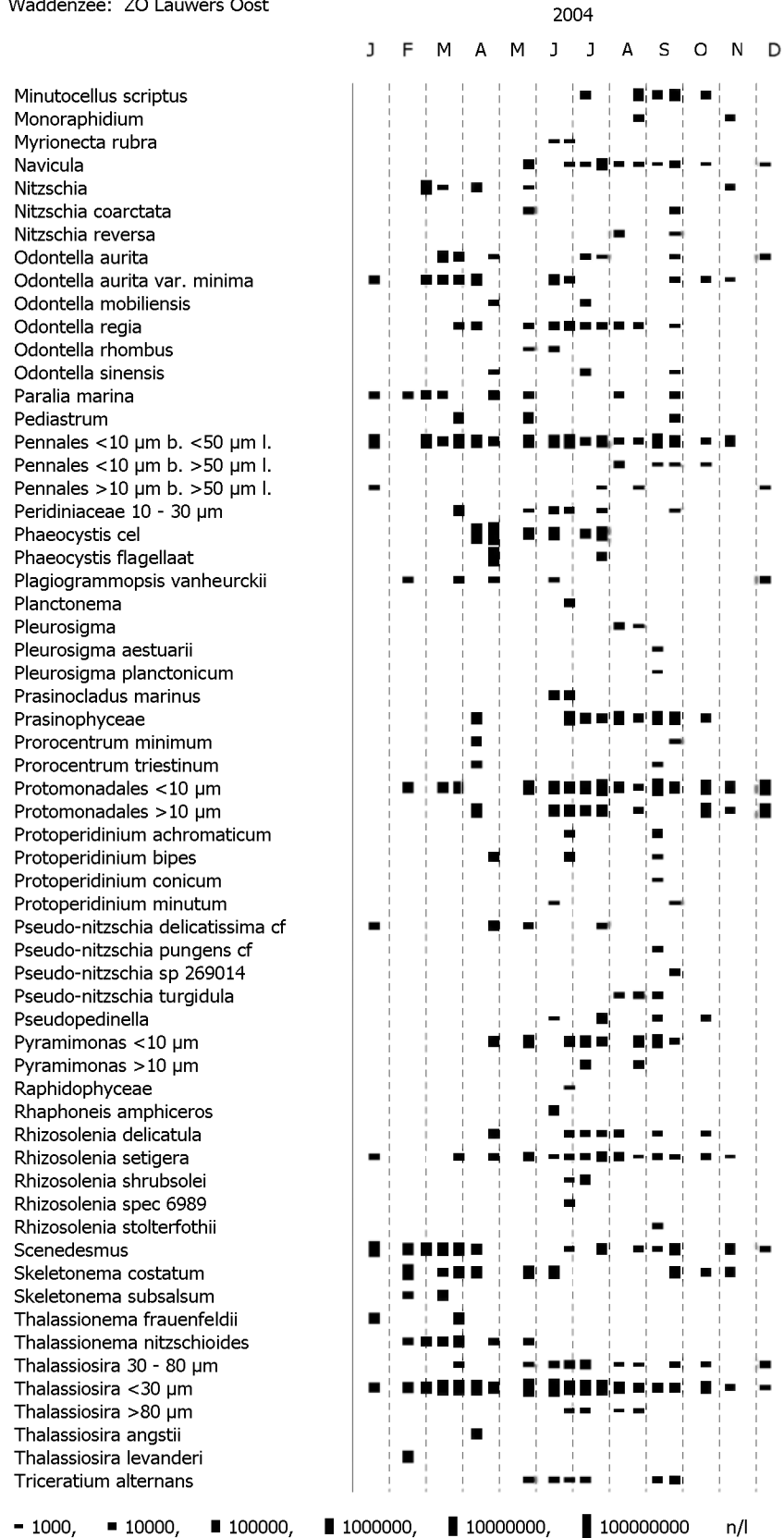
Waddenzee: Dantzigat



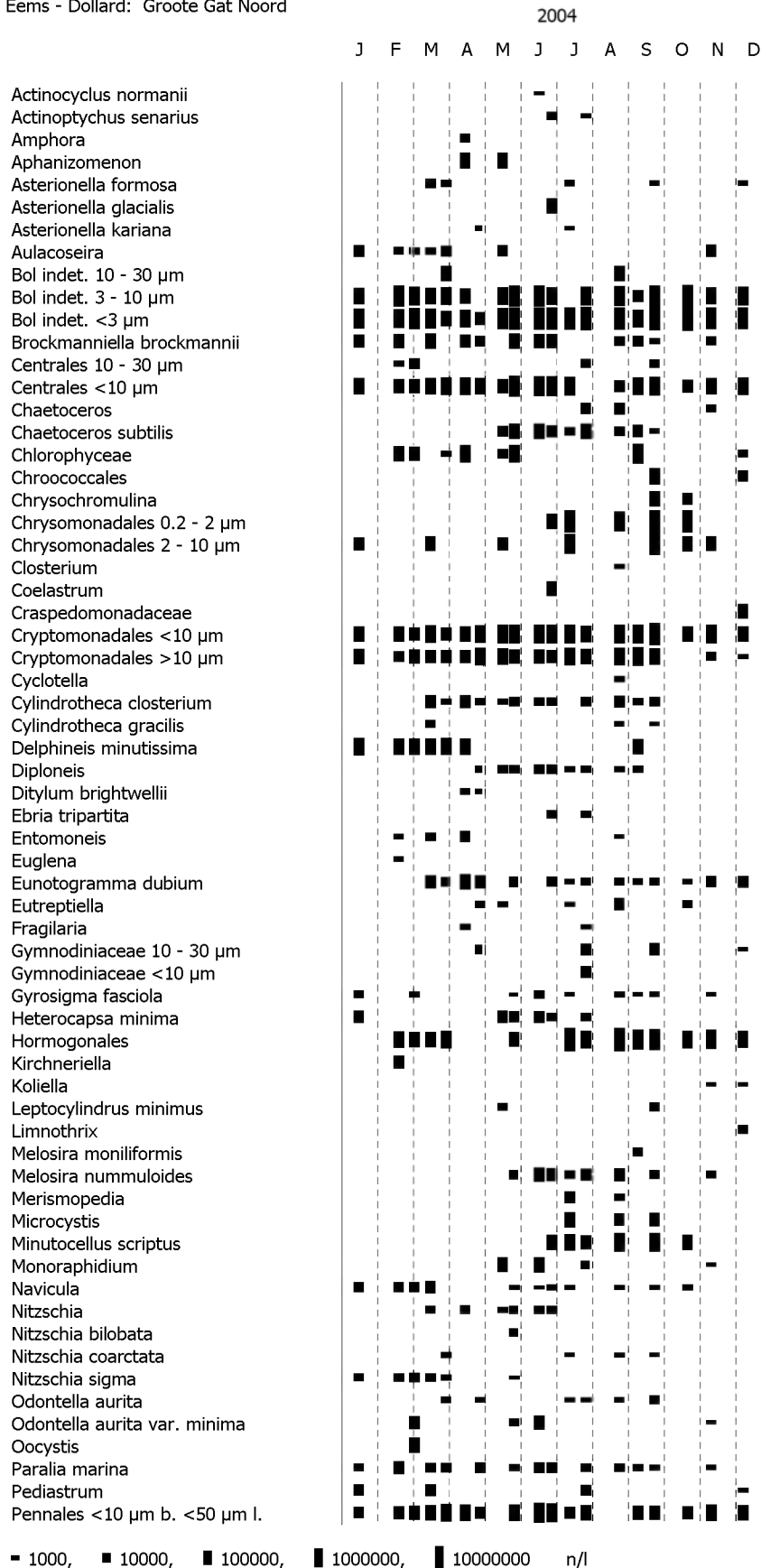
## Waddenzee: ZO Lauwers Oost



Waddenzee: ZO Lauwers Oost

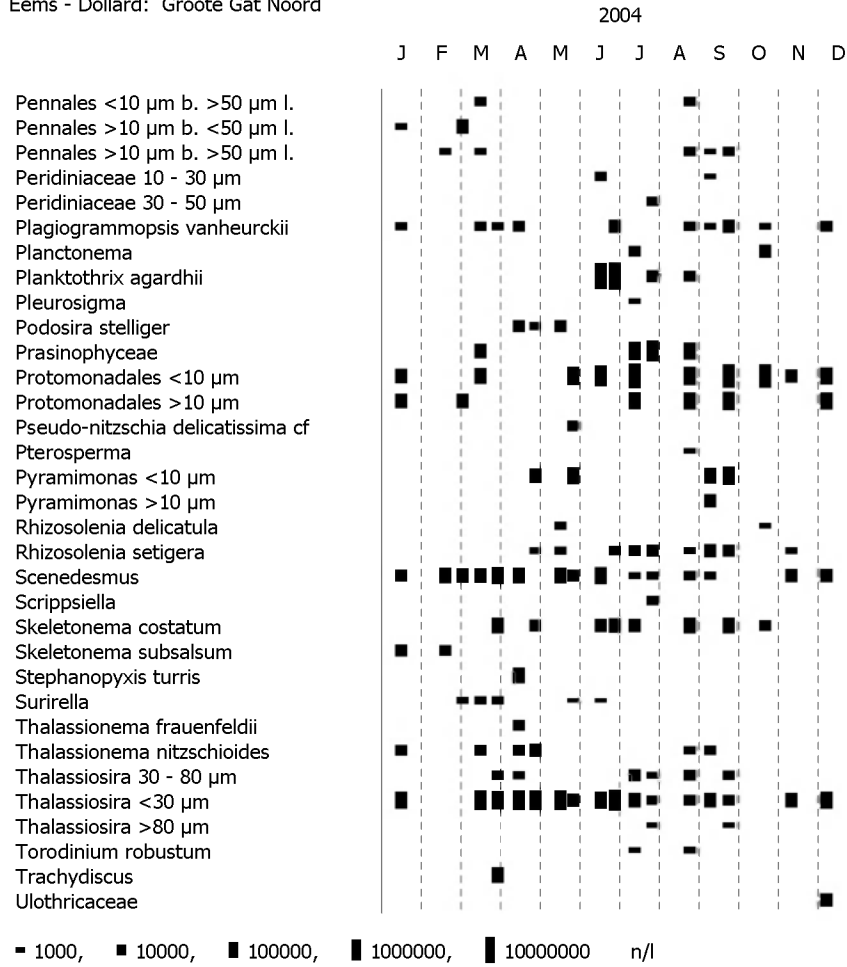


Eems - Dollard: Grootte Gat Noord

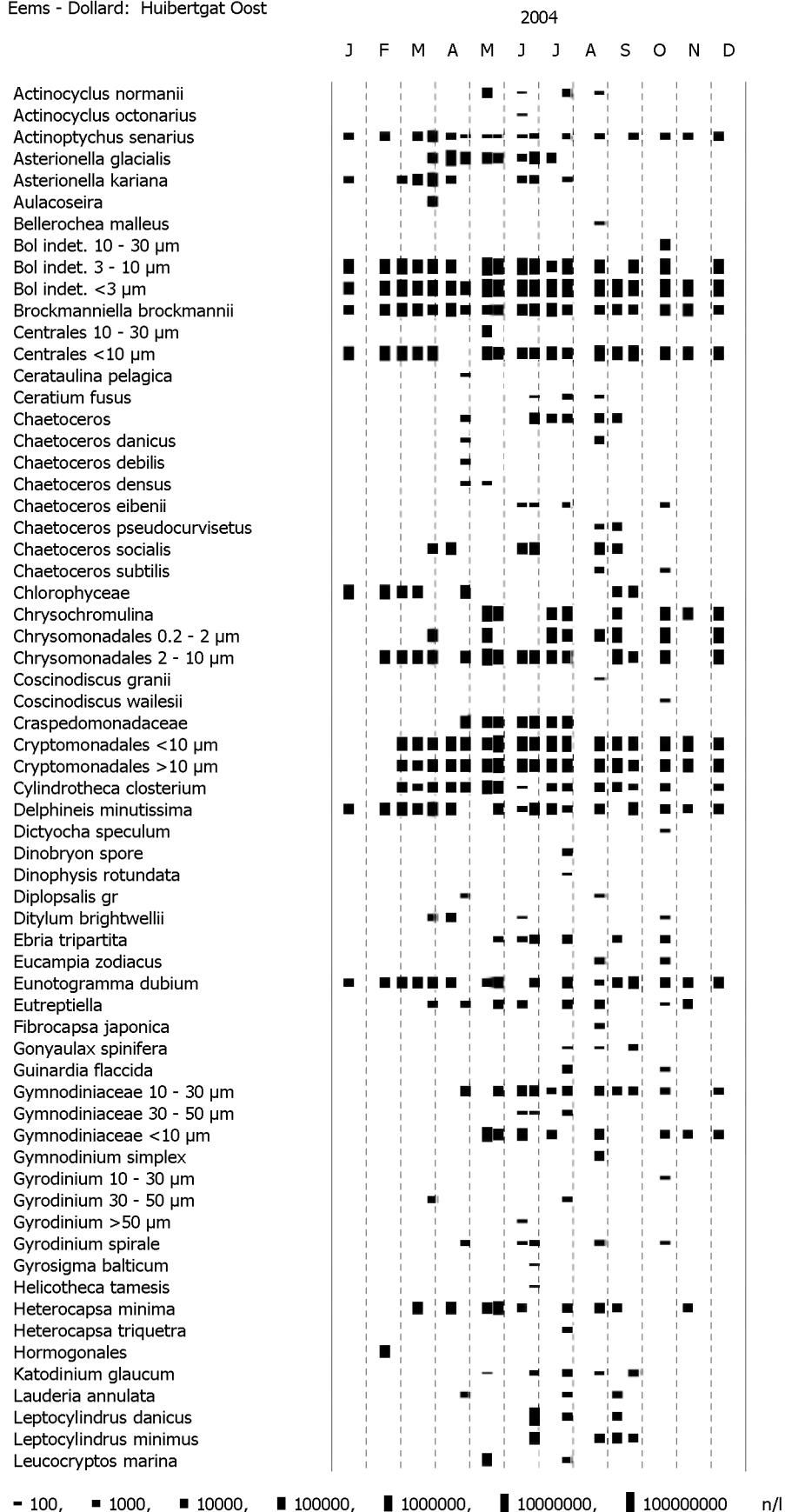




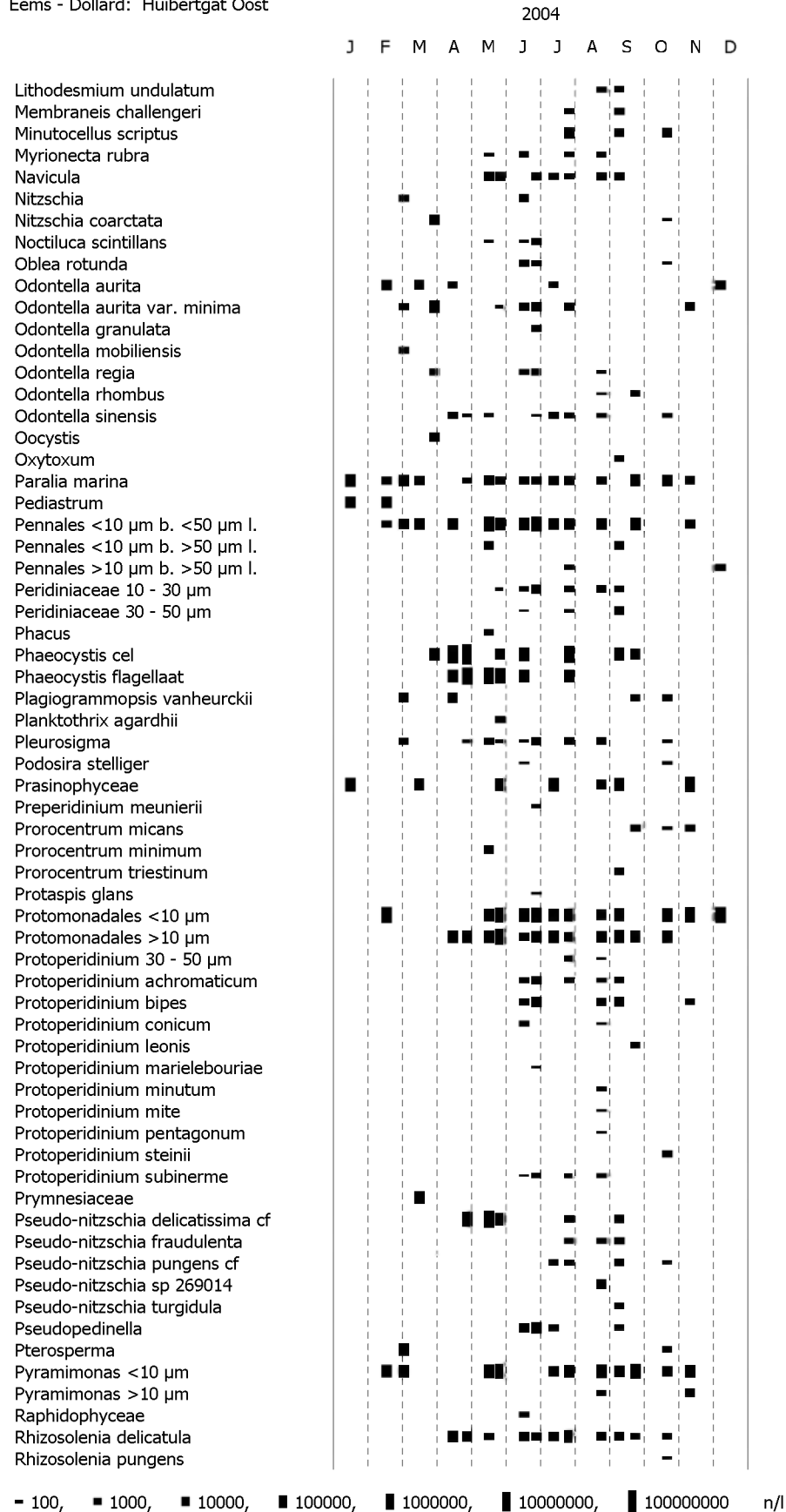
Eems - Dollard: Groote Gat Noord



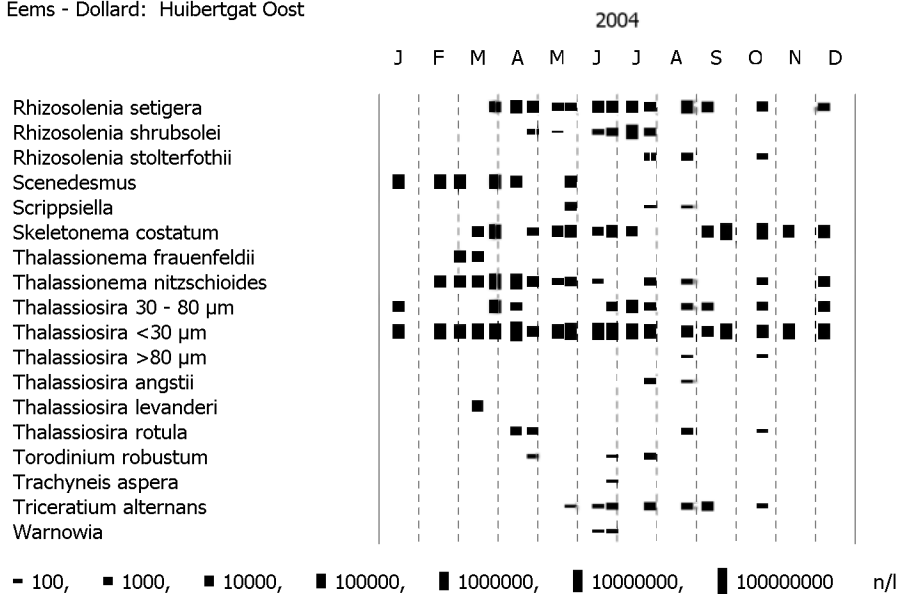
## Eems - Dollard: Huibergat Oost



Eems - Dollard: Huibertgat Oost



## Eems - Dollard: Huibertgat Oost



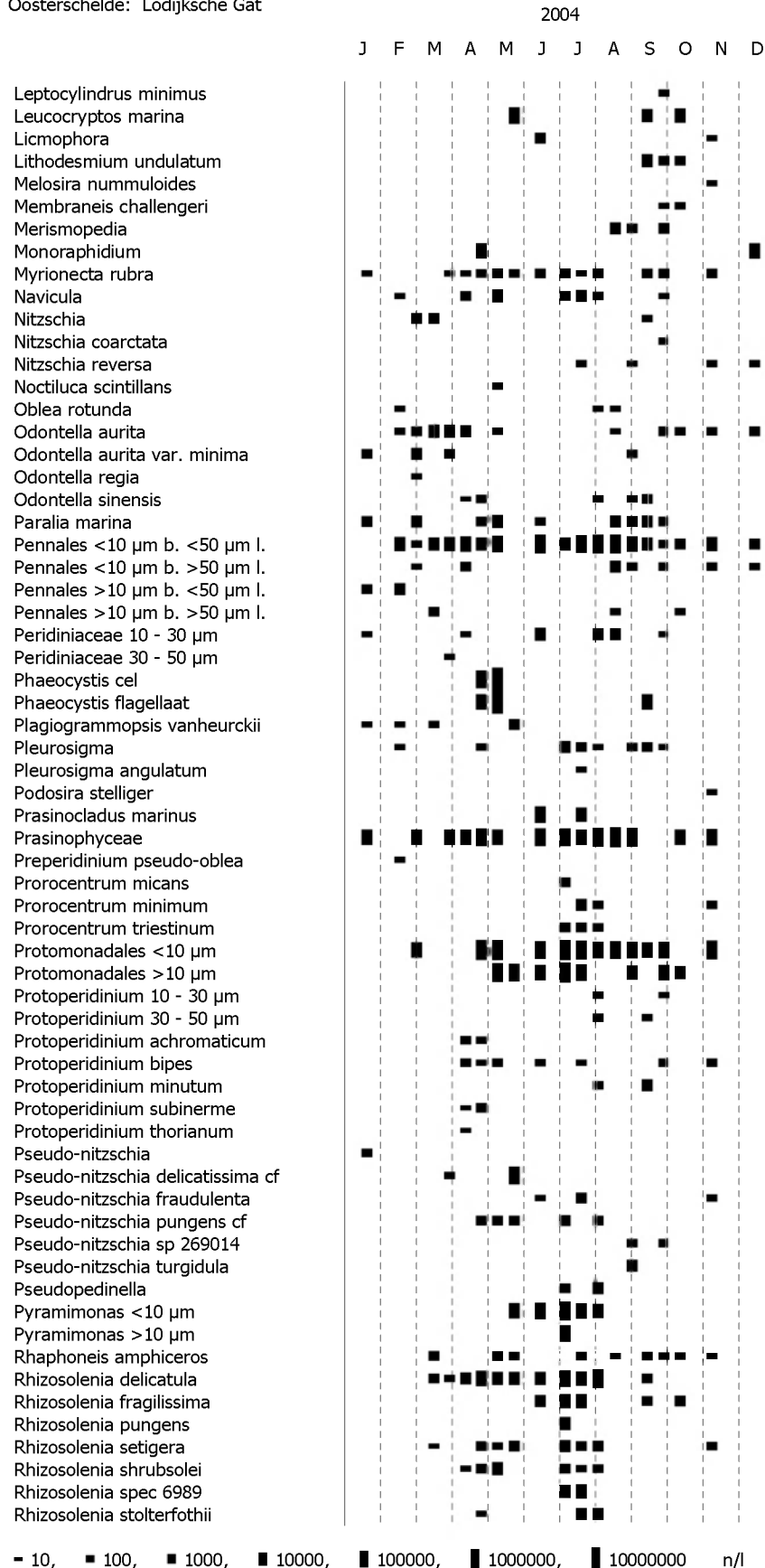
Oosterschelde: Lodijksche Gat

2004

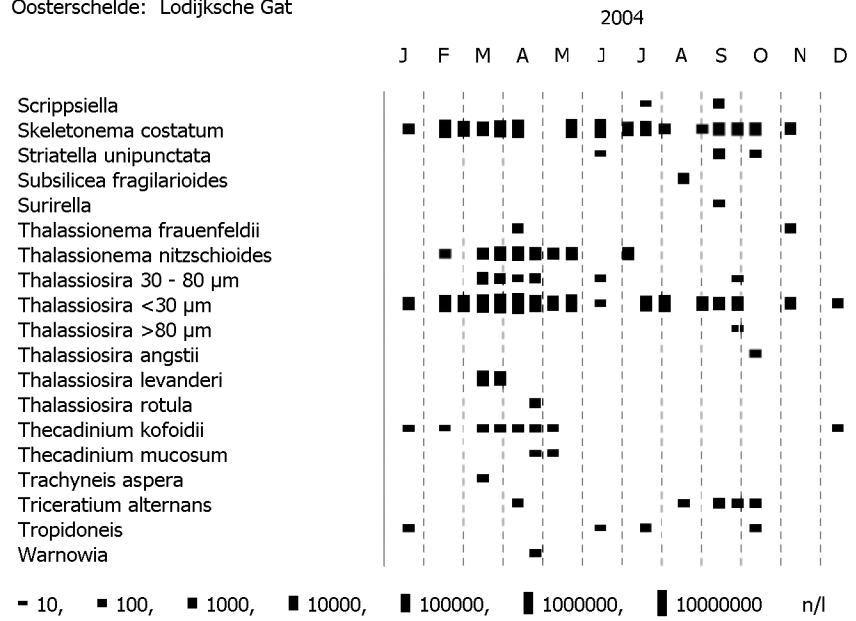
J F M A M J J A S O N D



Oosterschelde: Lodijksche Gat

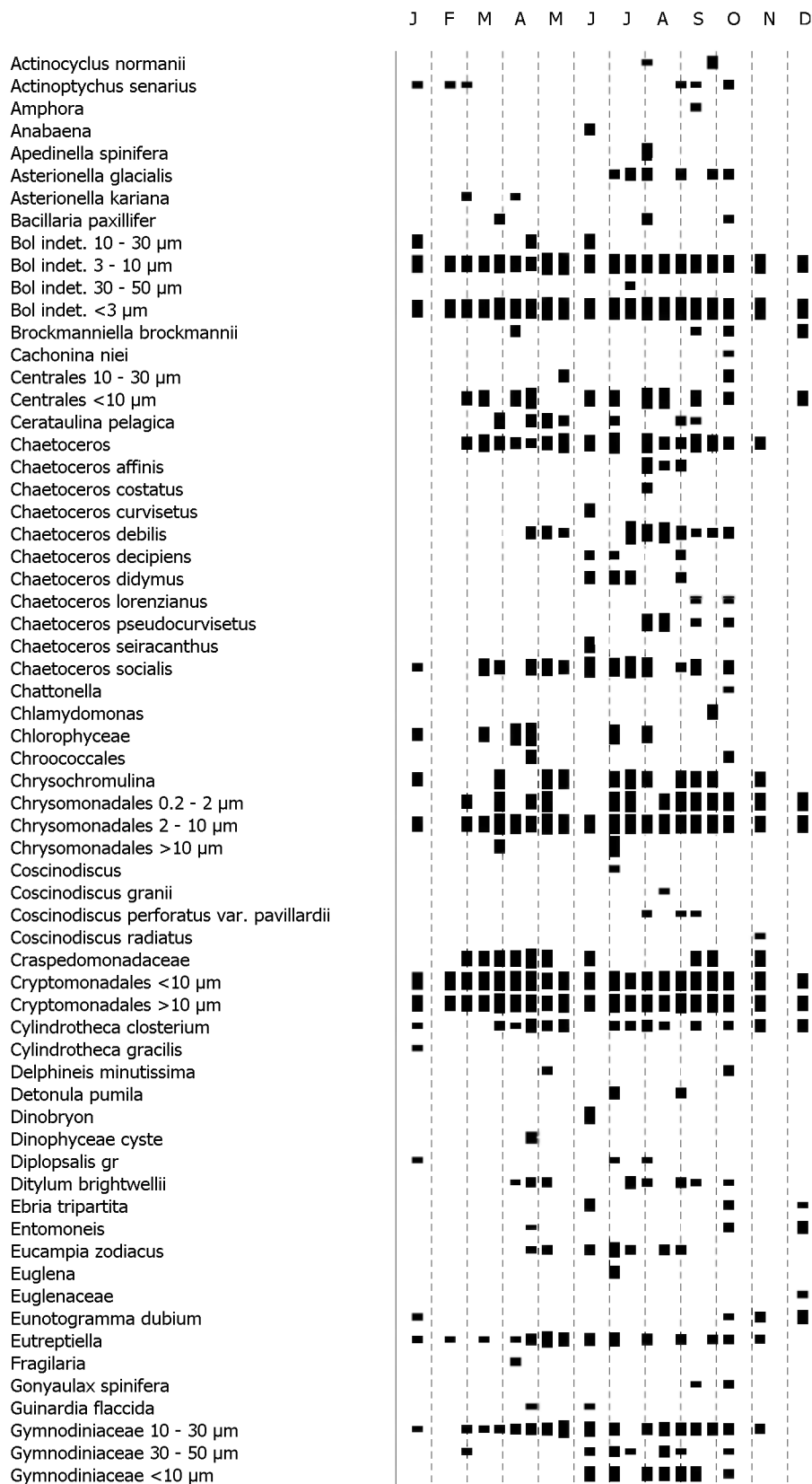


Oosterschelde: Lodijsche Gat



Oosterschelde: Zijpe

2004



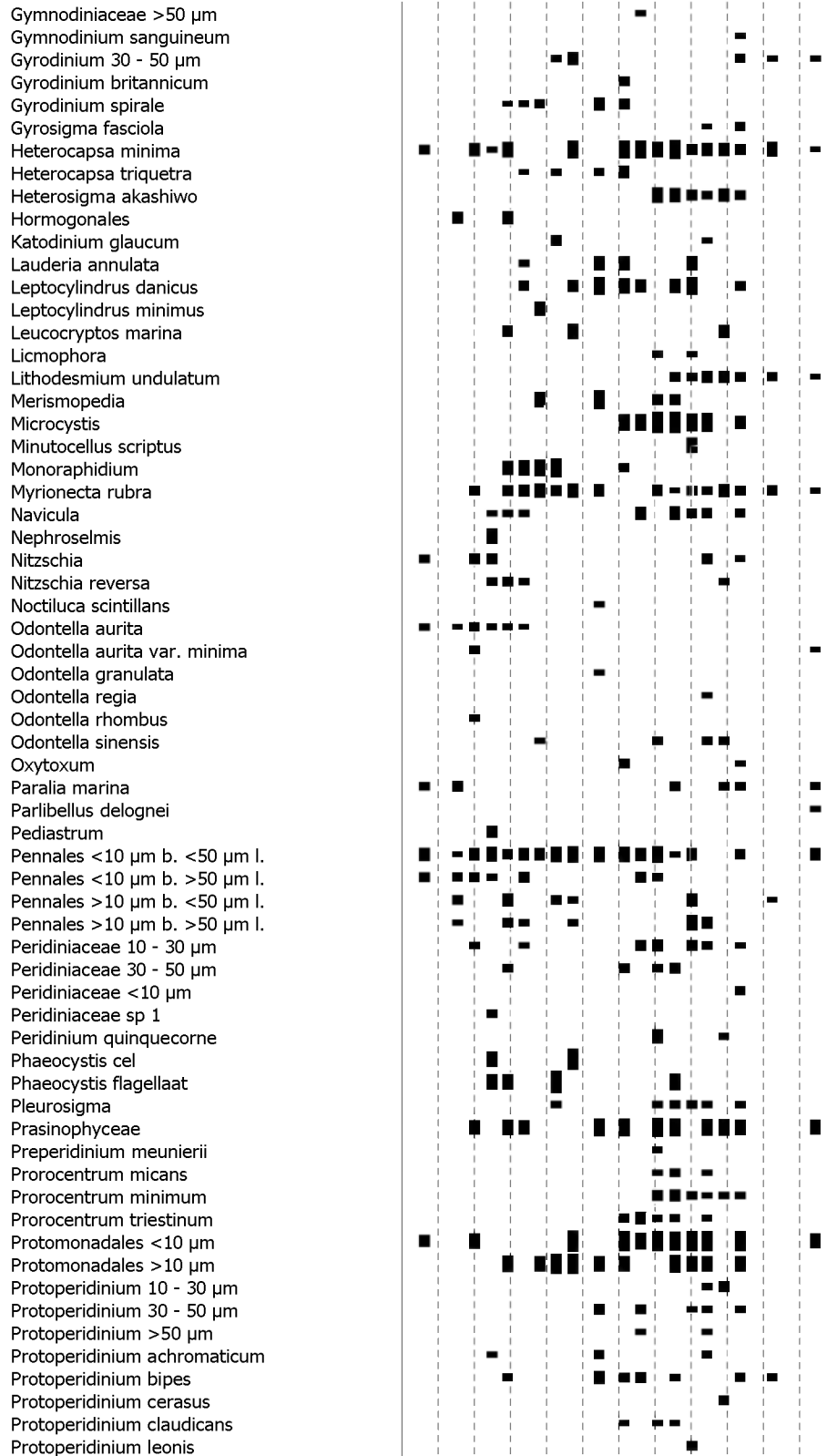
- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l



Oosterschelde: Zijpe

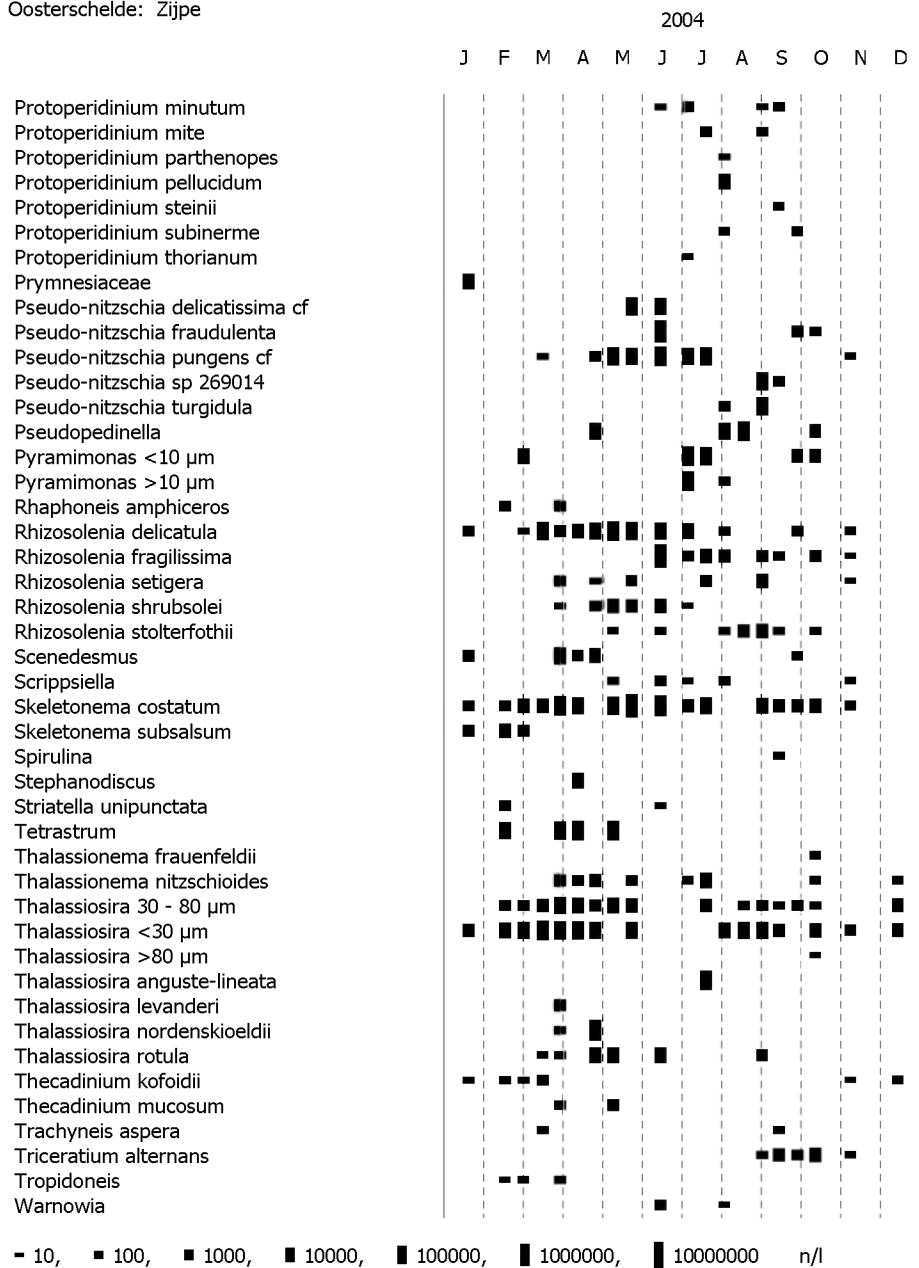
2004

J F M A M J J A S O N D



- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

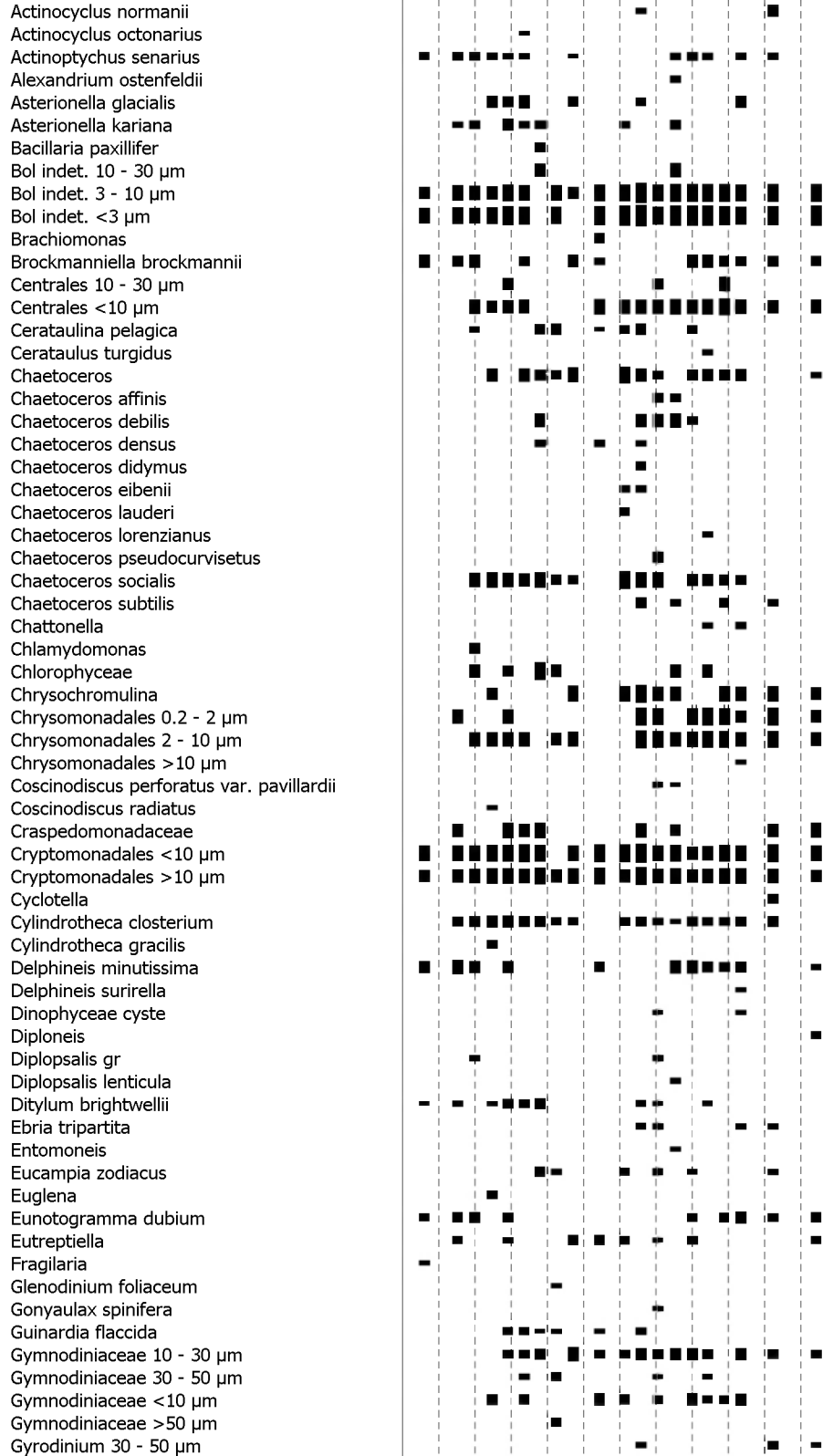
Oosterschelde: Zijpe



Oosterschelde: Hammen Oost

2004

J F M A M J J A S O N D

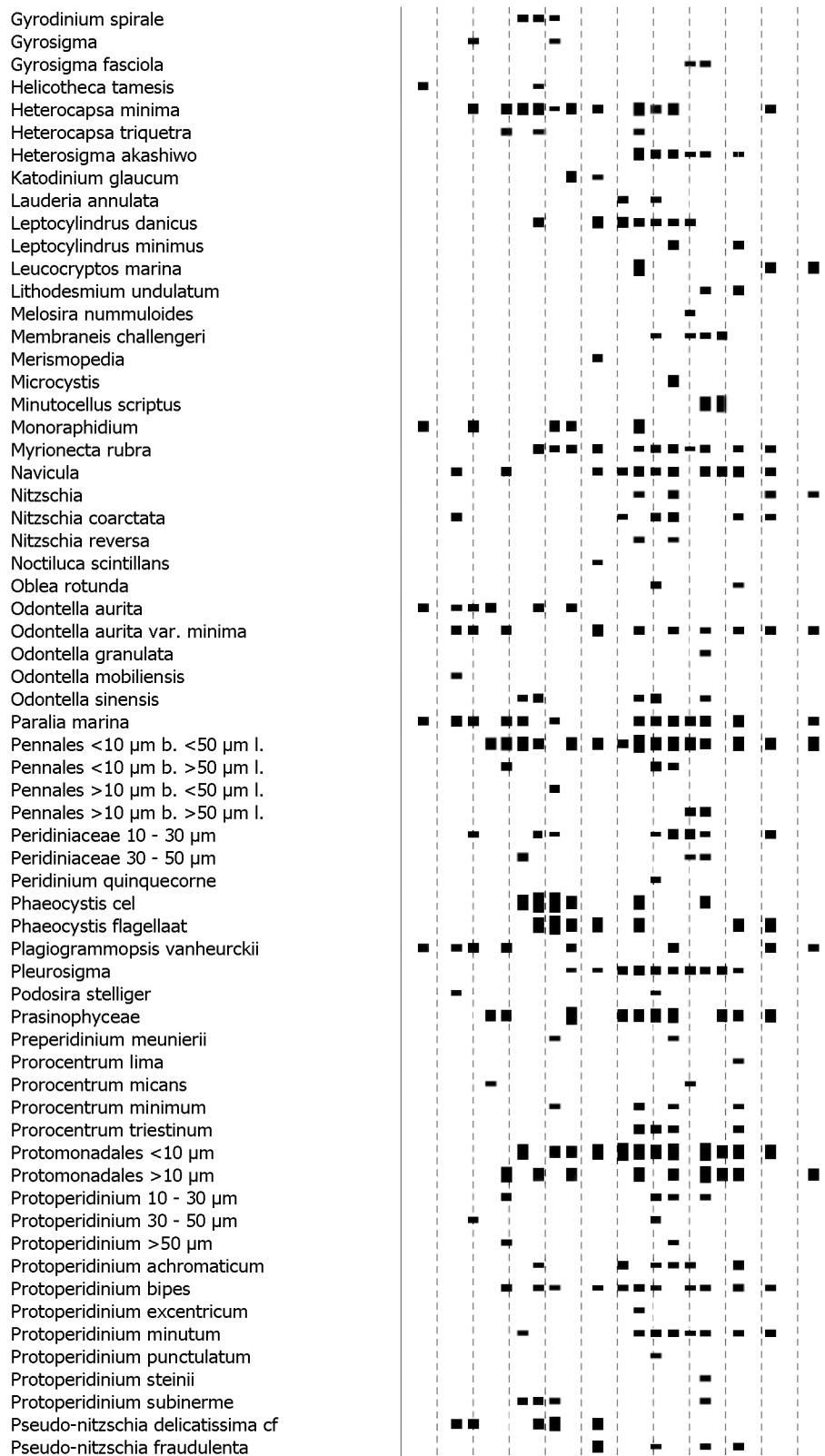


- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l

Oosterschelde: Hammen Oost

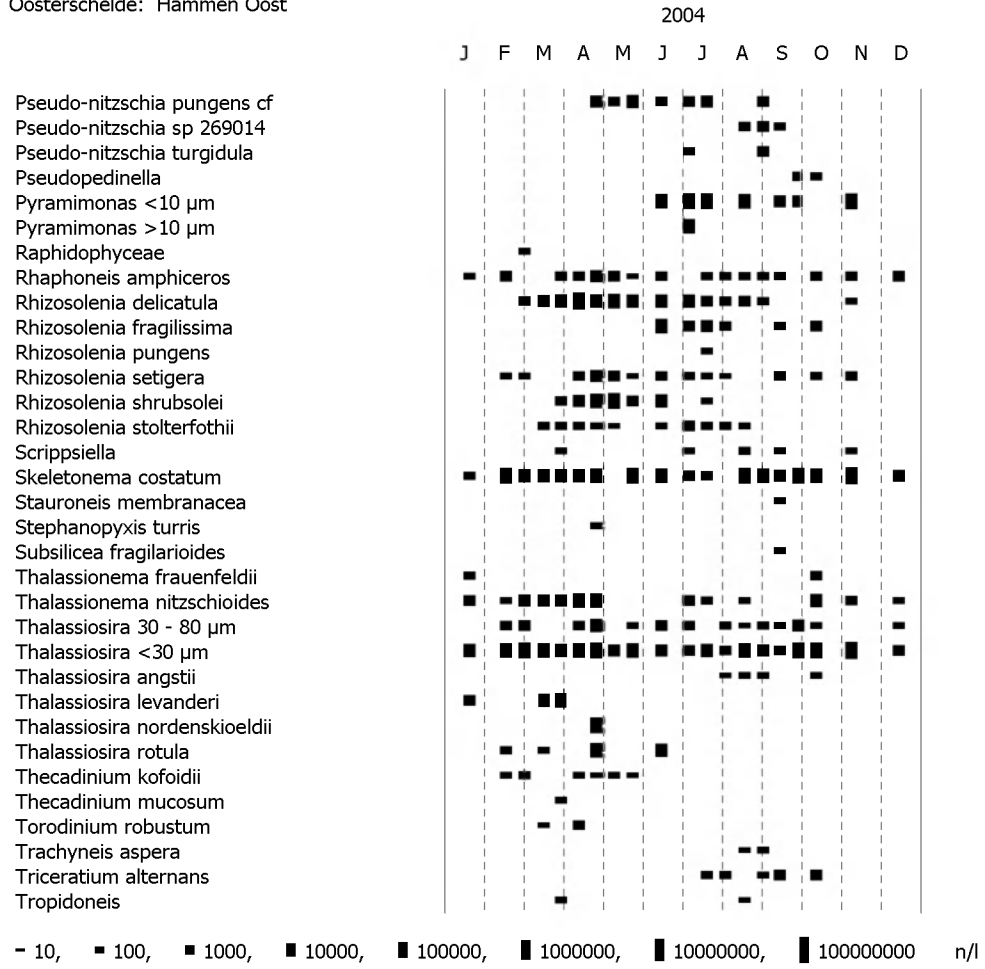
2004

J F M A M J J A S O N D



- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, n/l

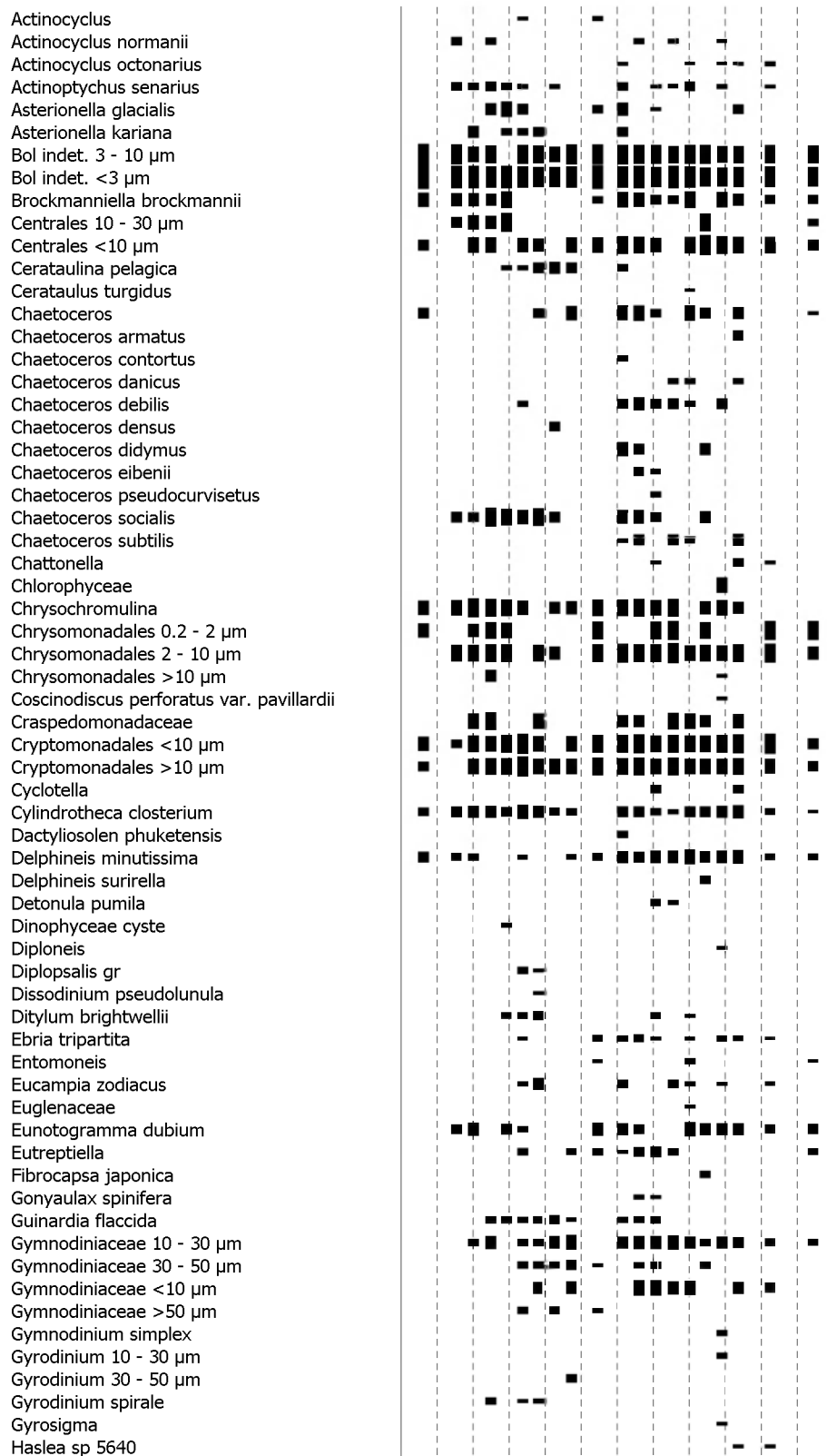
Oosterschelde: Hammen Oost



Oosterschelde: Wissenkerke

2004

J F M A M J J A S O N D

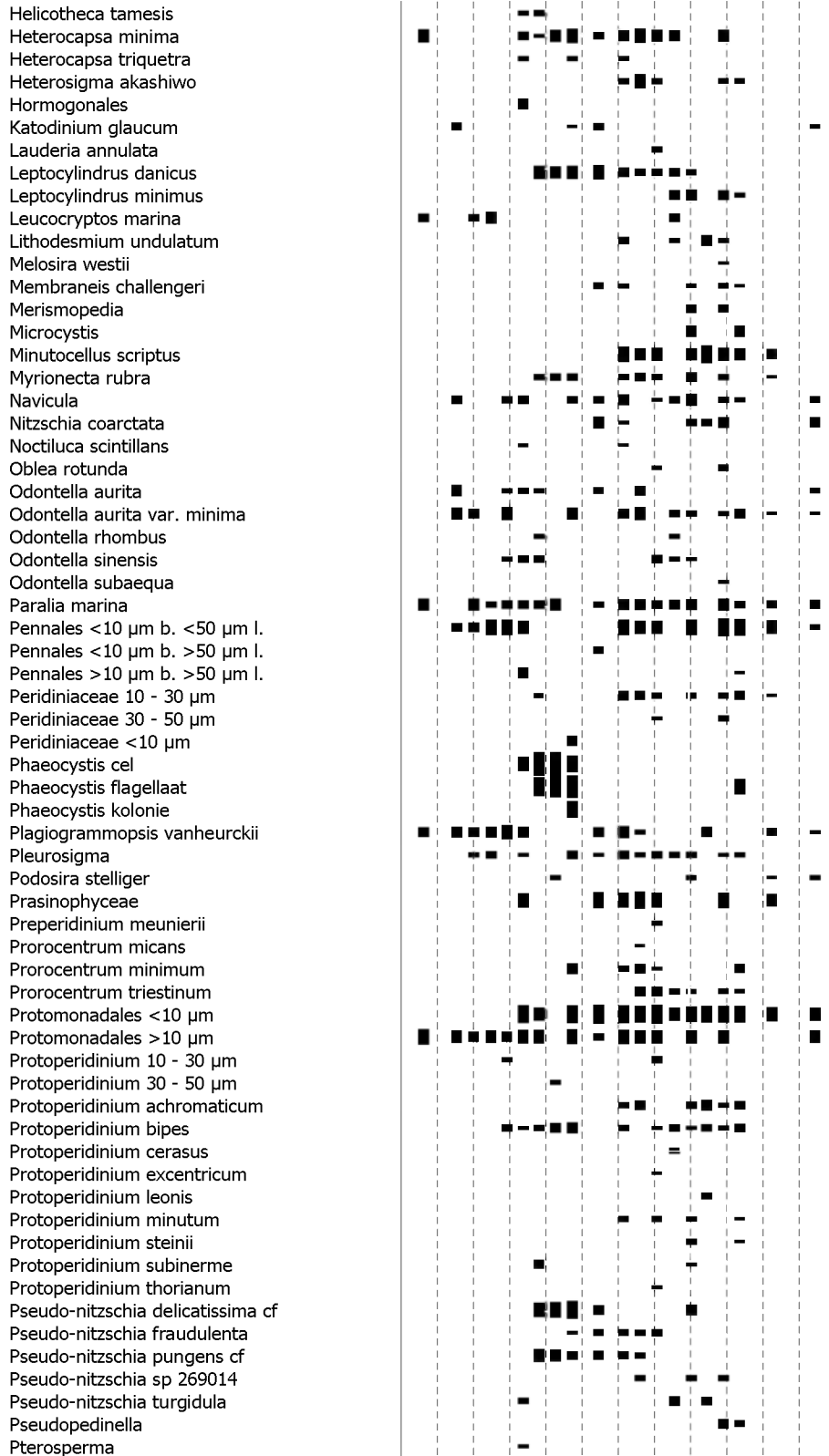


- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Oosterschelde: Wissenkerke

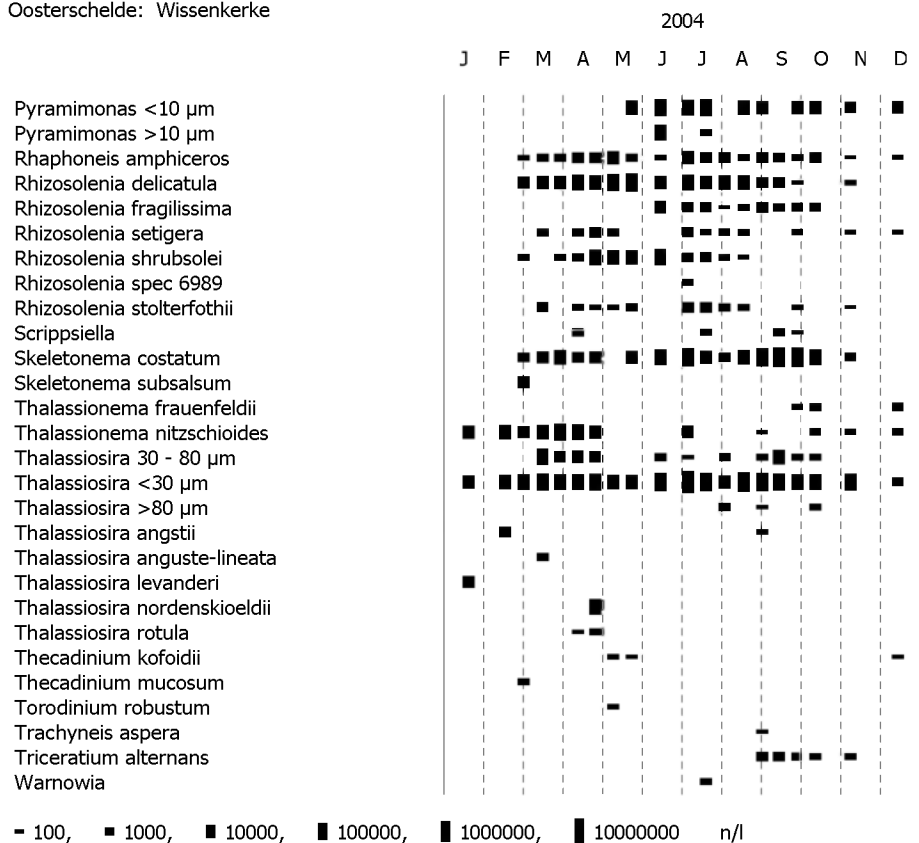
2004

J F M A M J J A S O N D



■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 1000000 n/l

Oosterschelde: Wissenkerke





Westerschelde: Schaar van Ouden Doel

2004



- 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l



Westerschelde: Hansweert

2004

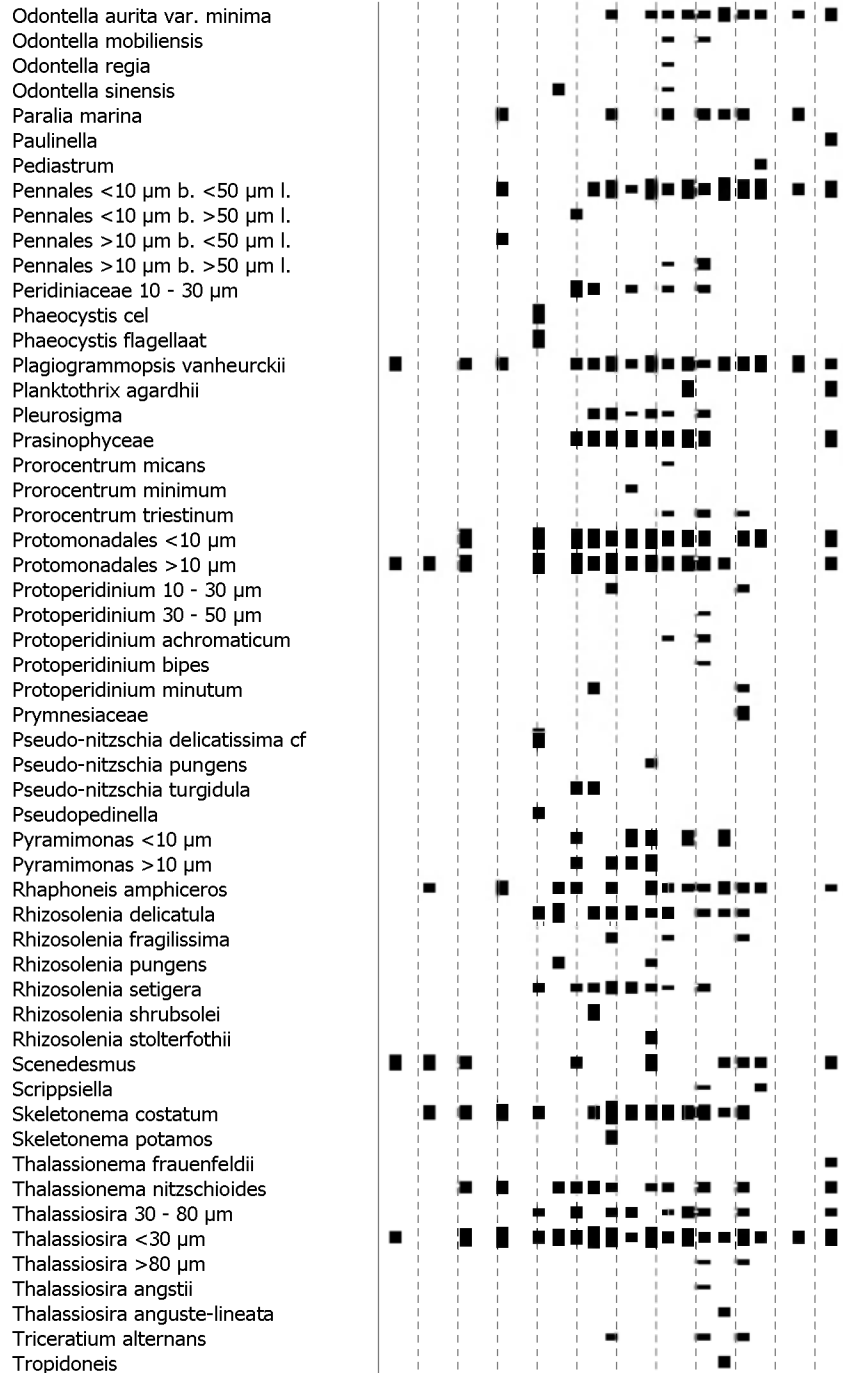
J F M A M J J A S O N D



Westerschelde: Hansweert

2004

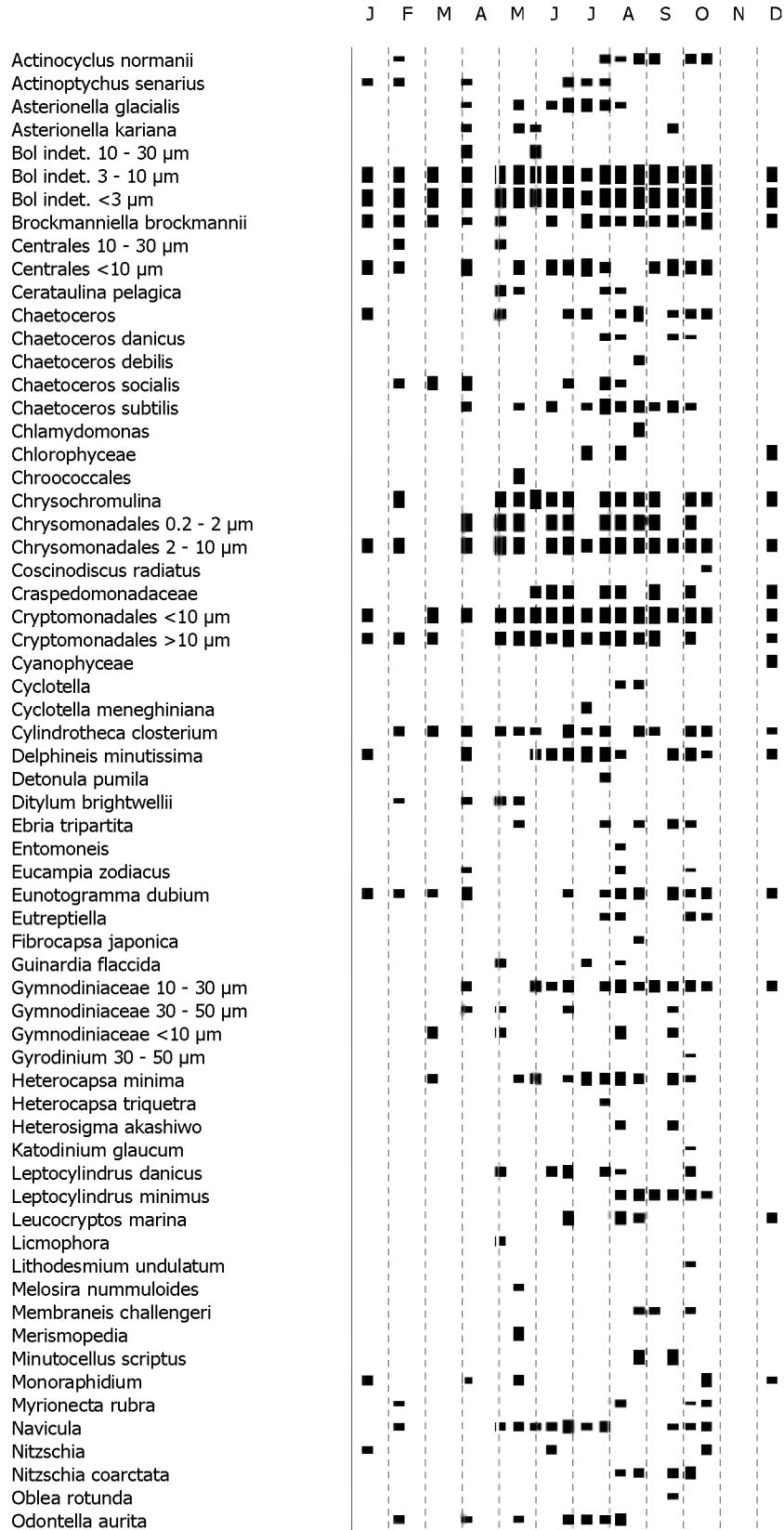
J F M A M J J A S O N D



- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Westerschelde: Vlissingen Boei SSVH

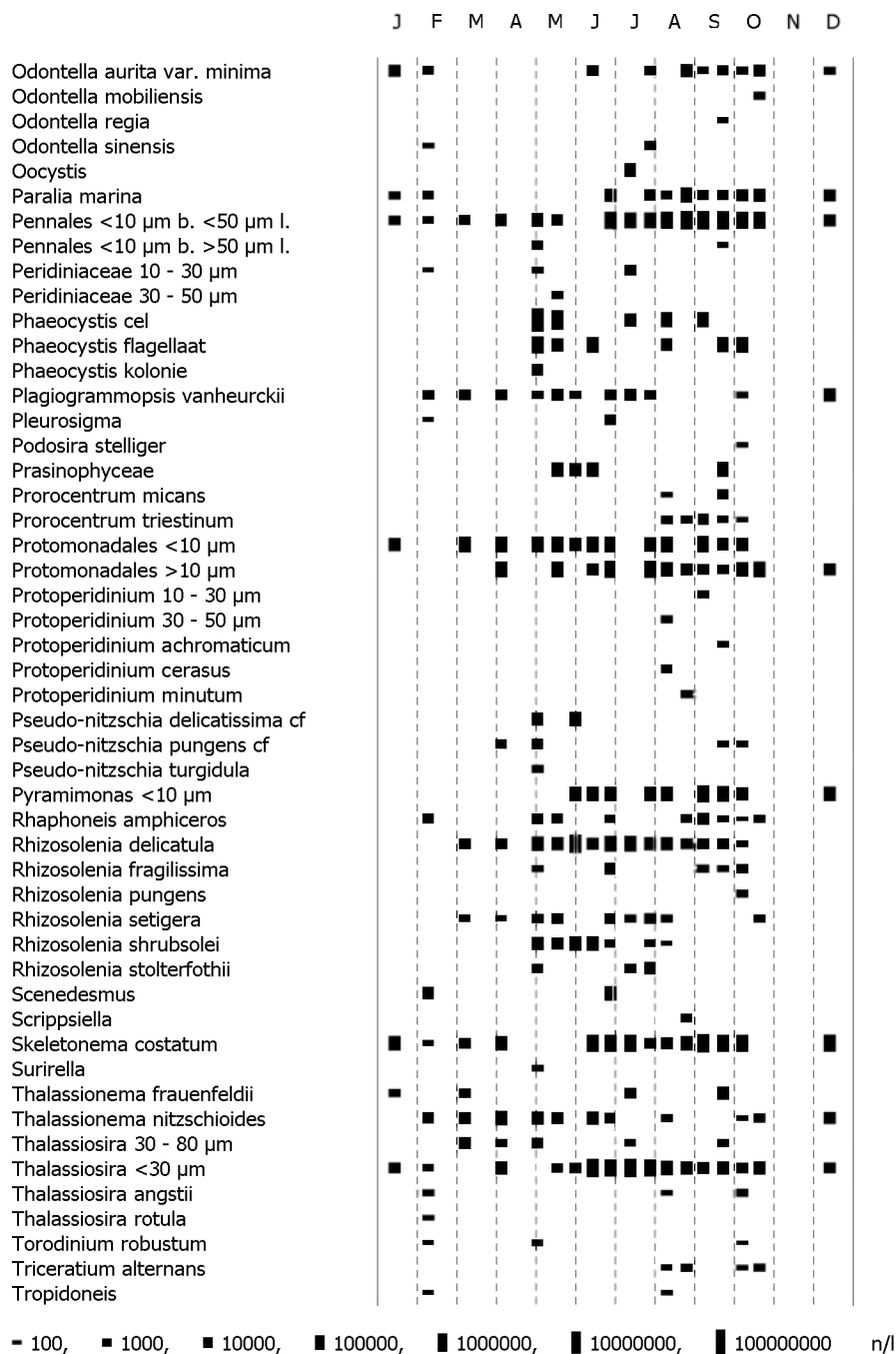
2004



- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l

Westerschelde: Vlissingen Boei SSVH

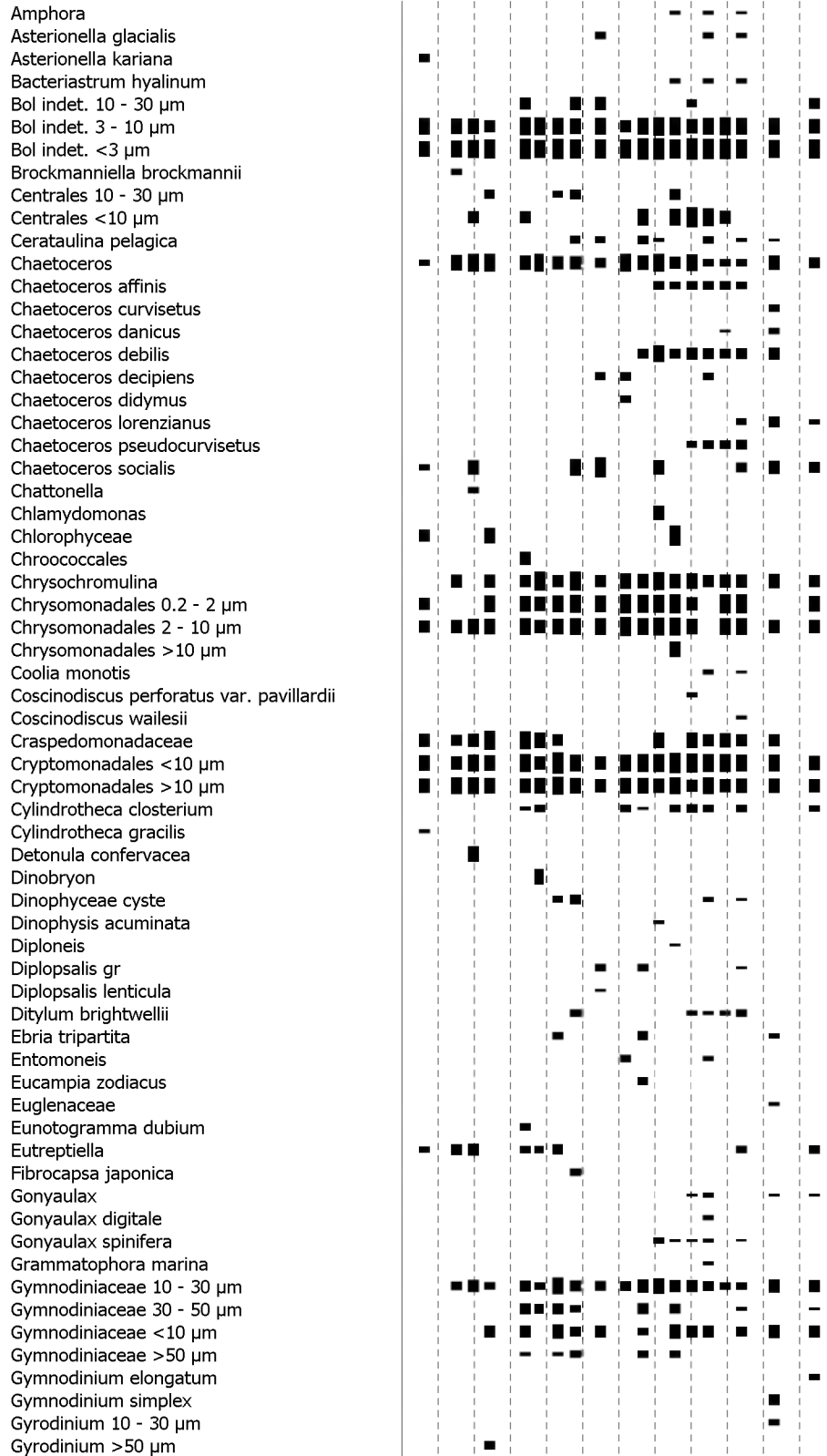
2004



Grevelingen: Dreischor (oppervlakte laag)

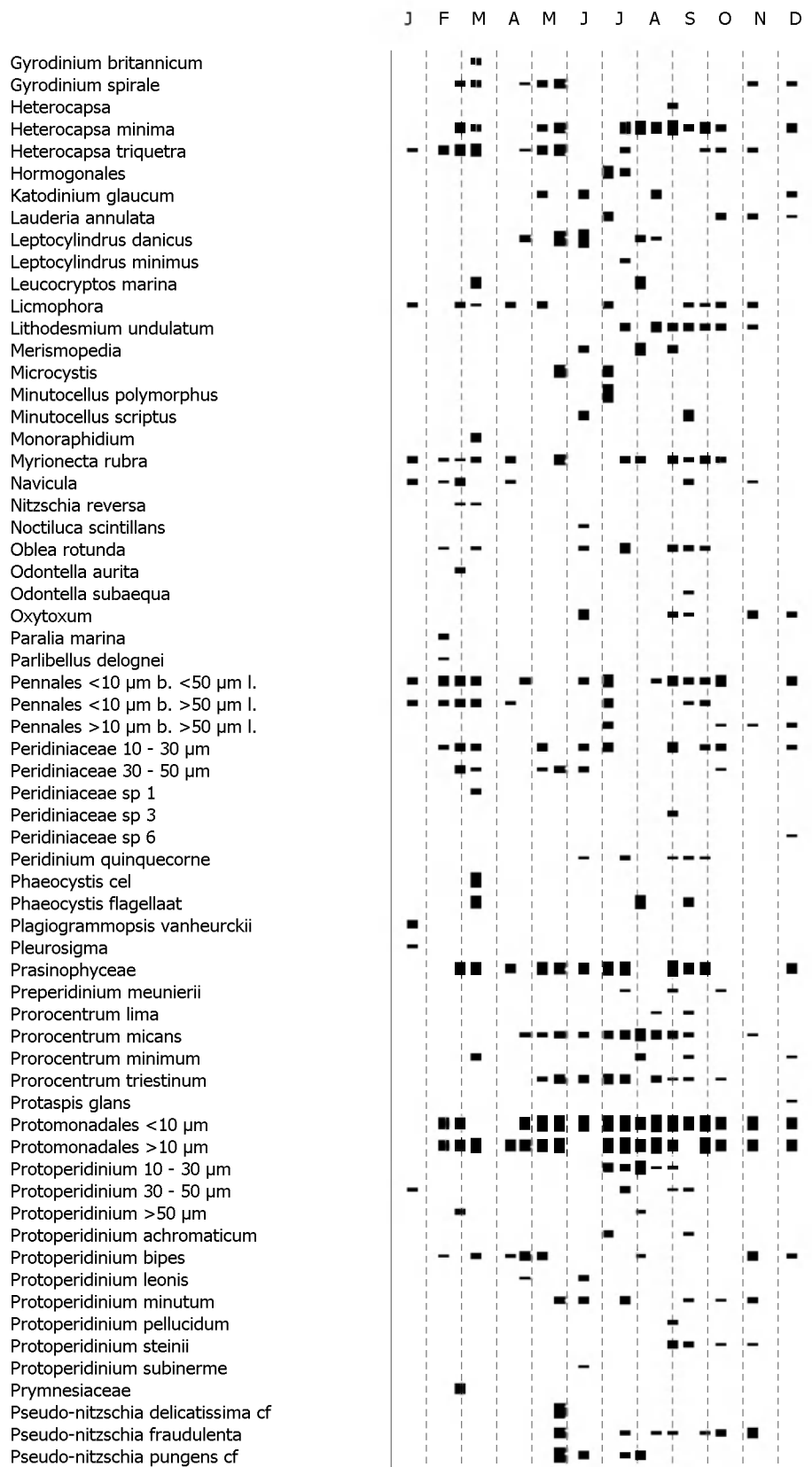
2004

J F M A M J J A S O N D



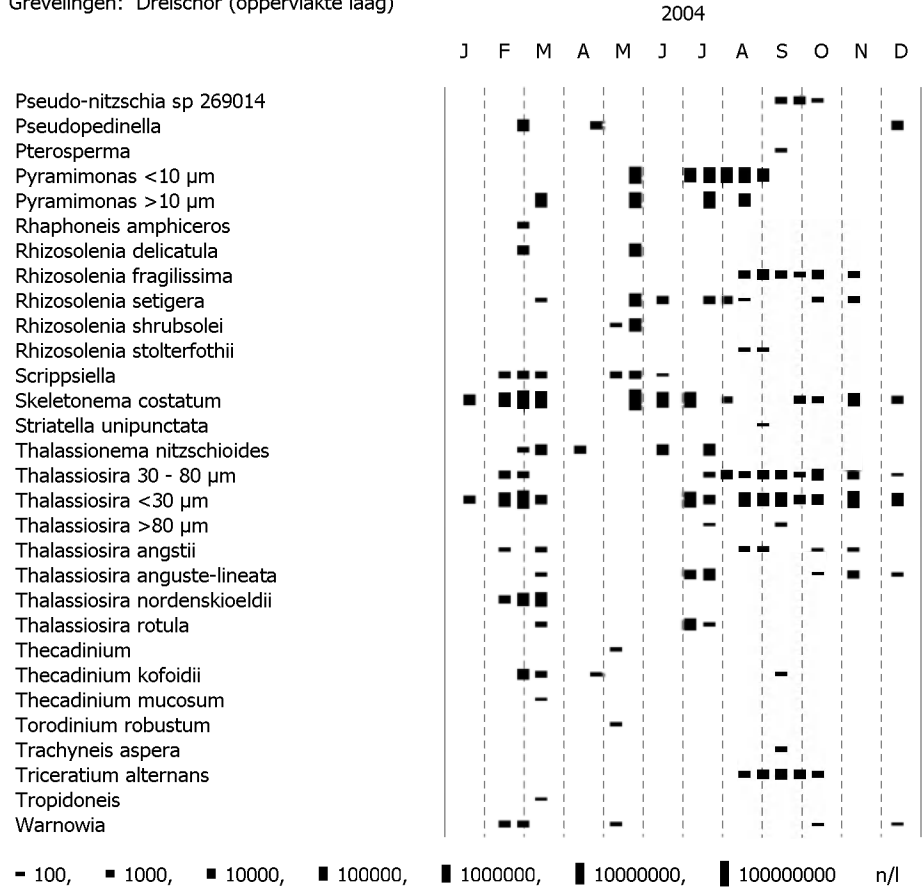
Grevelingen: Dreischor (oppervlakte laag)

2004





Grevelingen: Dreischor (oppervlakte laag)



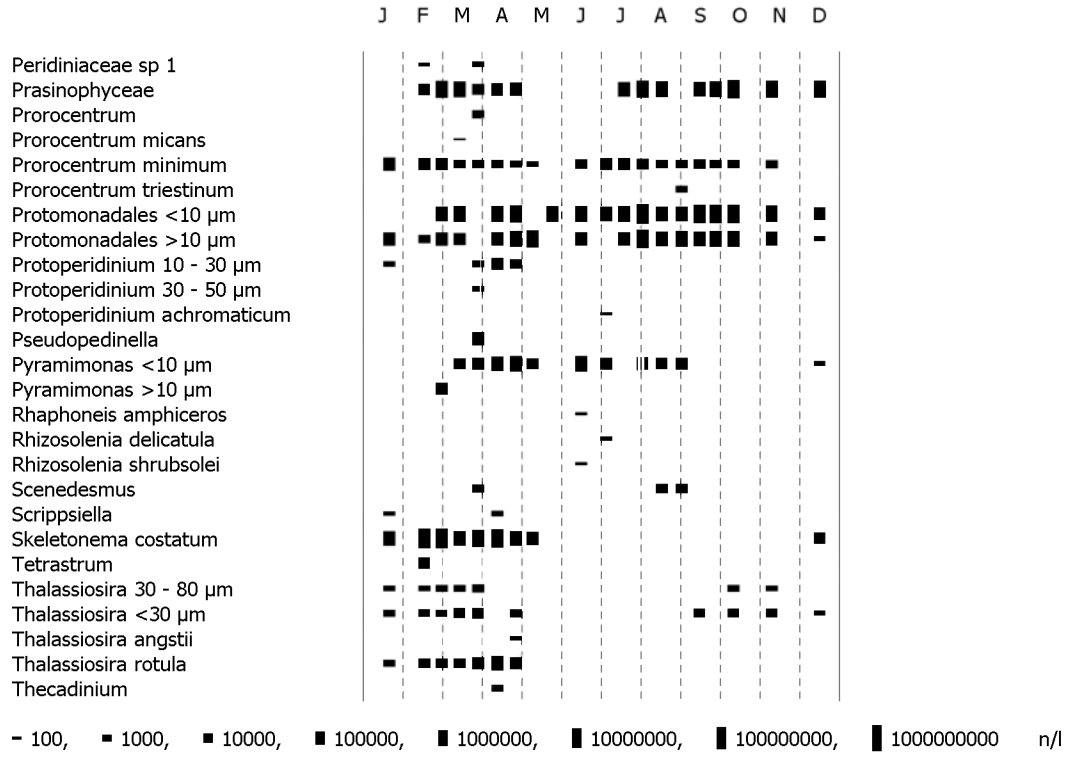
Veerse Meer: Soelekerkepolder Oost (oppervlakte laag)

2004



Veerse Meer: Soelekerkepolder Oost (oppervlakte laag)

2004



Noordzee: Terschelling 100 (spronglaag)

2004

J F M A M J J A S O N D

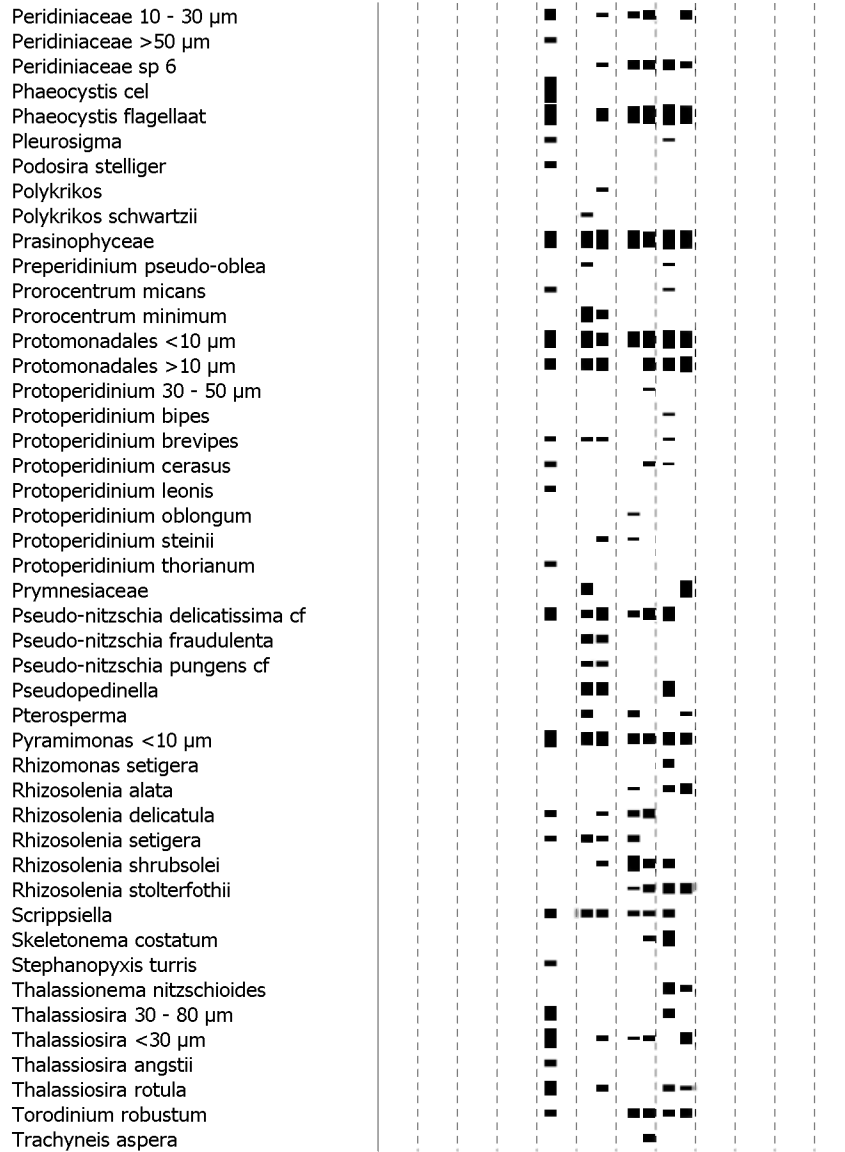
Actiniscus pentasterias  
 Alexandrium ostenfeldii  
 Alexandrium tamarense  
 Amphidinium sphenoides  
 Apedinella spinifera  
 Bol indet. 10 - 30 µm  
 Bol indet. 3 - 10 µm  
 Bol indet. <3 µm  
 Brachiomonas  
 Cerataulina pelagica  
 Ceratium fusus  
 Ceratium tripos  
 Chaetoceros  
 Chaetoceros borealis  
 Chaetoceros contortus  
 Chaetoceros convolutus  
 Chaetoceros curvisetus  
 Chaetoceros danicus  
 Chaetoceros debilis  
 Chaetoceros diadema  
 Chaetoceros socialis  
 Chrysochromulina  
 Chrysomonadales 0.2 - 2 µm  
 Chrysomonadales 2 - 10 µm  
 Chrysomonadales sp. 1  
 Cochlodinium  
 Craspedomonadaceae  
 Cryptomonadales <10 µm  
 Cryptomonadales >10 µm  
 Cylindrotheca closterium  
 Dactyliosolen phuketensis  
 Dictyocha (naakte vorm)  
 Dictyocha speculum  
 Dinobryon faculiferum  
 Dinophyceae cyste  
 Dinophysis rotundata  
 Diplopsalis gr  
 Entomoneis  
 Eucampia zodiacus  
 Glenodinium danicum  
 Gonyaulax  
 Guinardia flaccida  
 Gymnodiniaceae 10 - 30 µm  
 Gymnodiniaceae 30 - 50 µm  
 Gymnodiniaceae <10 µm  
 Gymnodiniaceae >50 µm  
 Gymnodinium simplex  
 Gyrodinium 10 - 30 µm  
 Gyrodinium 30 - 50 µm  
 Gyrodinium spirale  
 Heterocapsa minima  
 Katodinium glaucum  
 Leptocylindrus danicus  
 Leptocylindrus minimus  
 Leucocryptos marina  
 Meringosphaera  
 Mesoporos perforatus  
 Myrionecta rubra  
 Navicula  
 Nematodinium armatum  
 Odontella mobiliensis  
 Oxytoxum  
 Pennales <10 µm b. <50 µm l.  
 Pennales >10 µm b. >50 µm l.

■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 100 (spronglaag)

2004

J F M A M J J A S O N D

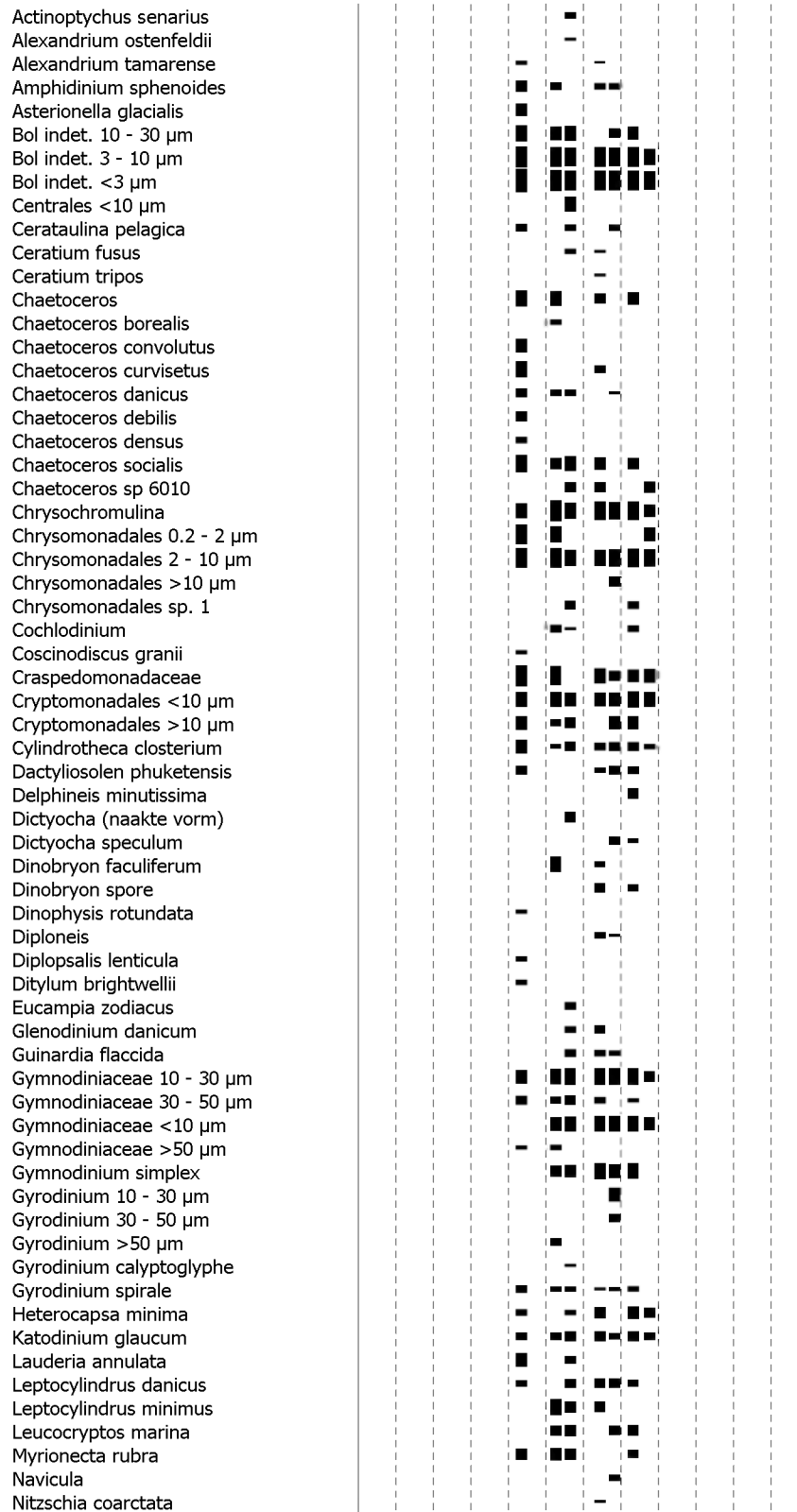


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 100 (bodemlaag)

2004

J F M A M J J A S O N D

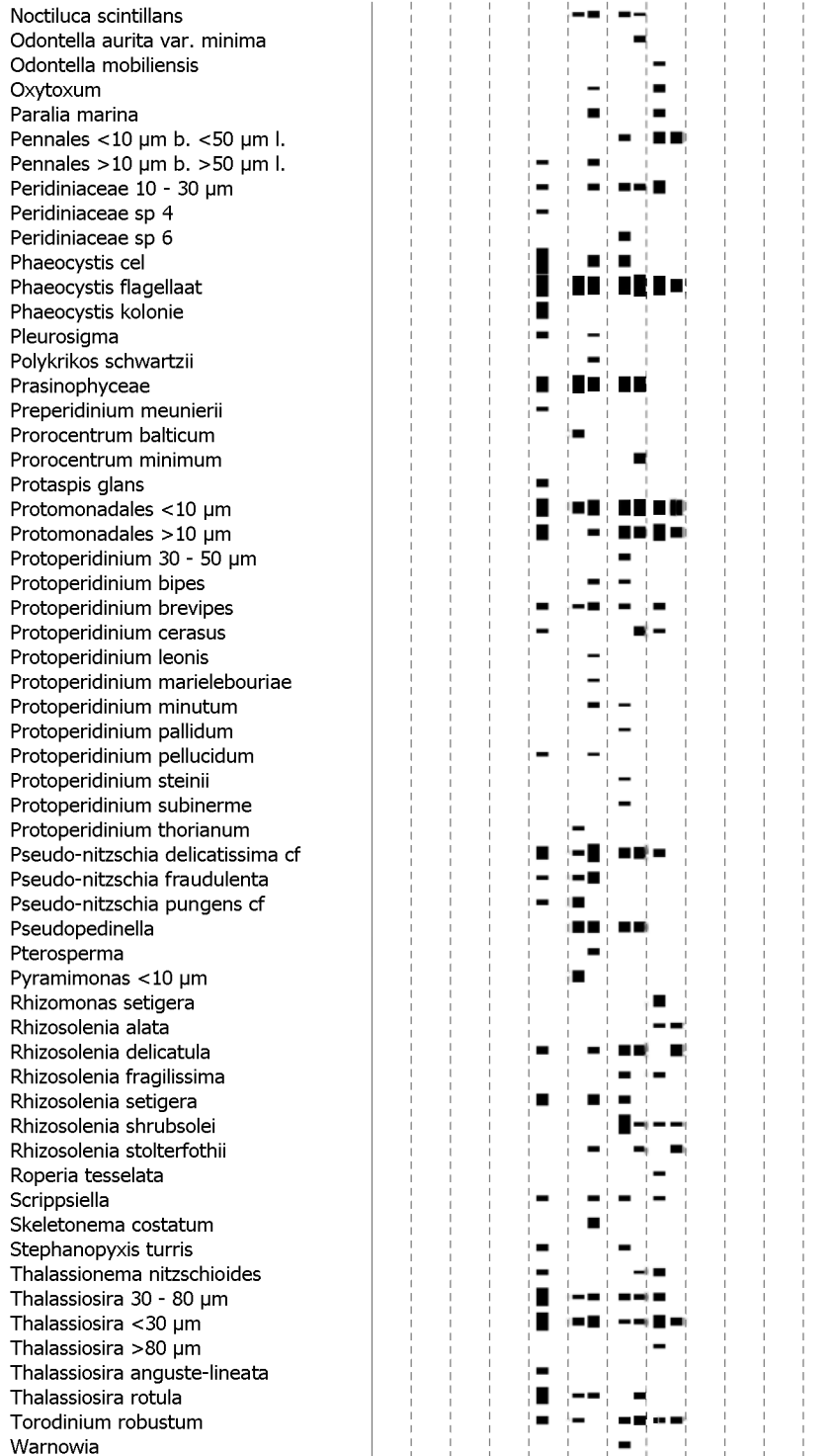


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 100 (bodemlaag)

2004

J F M A M J J A S O N D

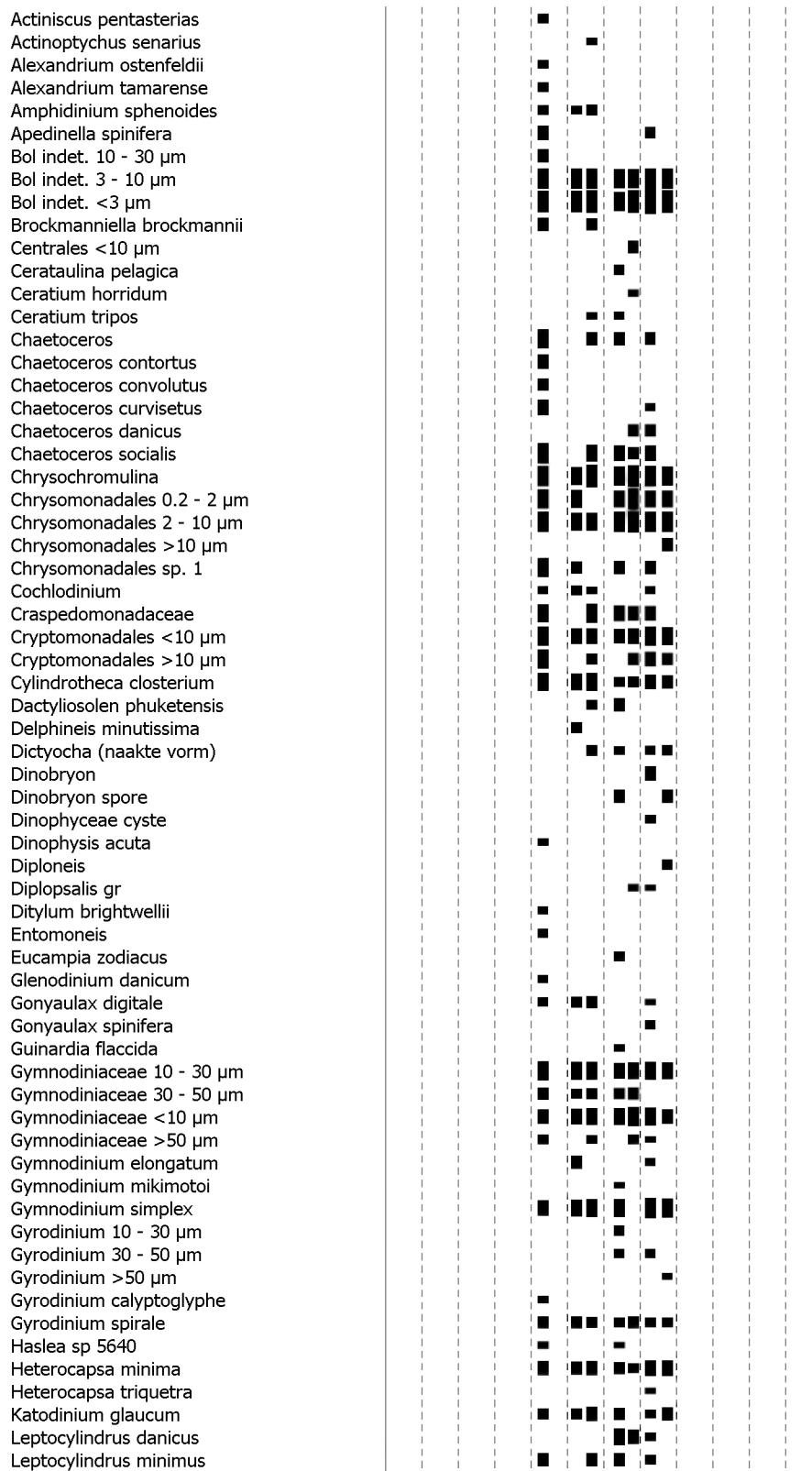


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 135 (spronglaag)

2004

J F M A M J J A S O N D



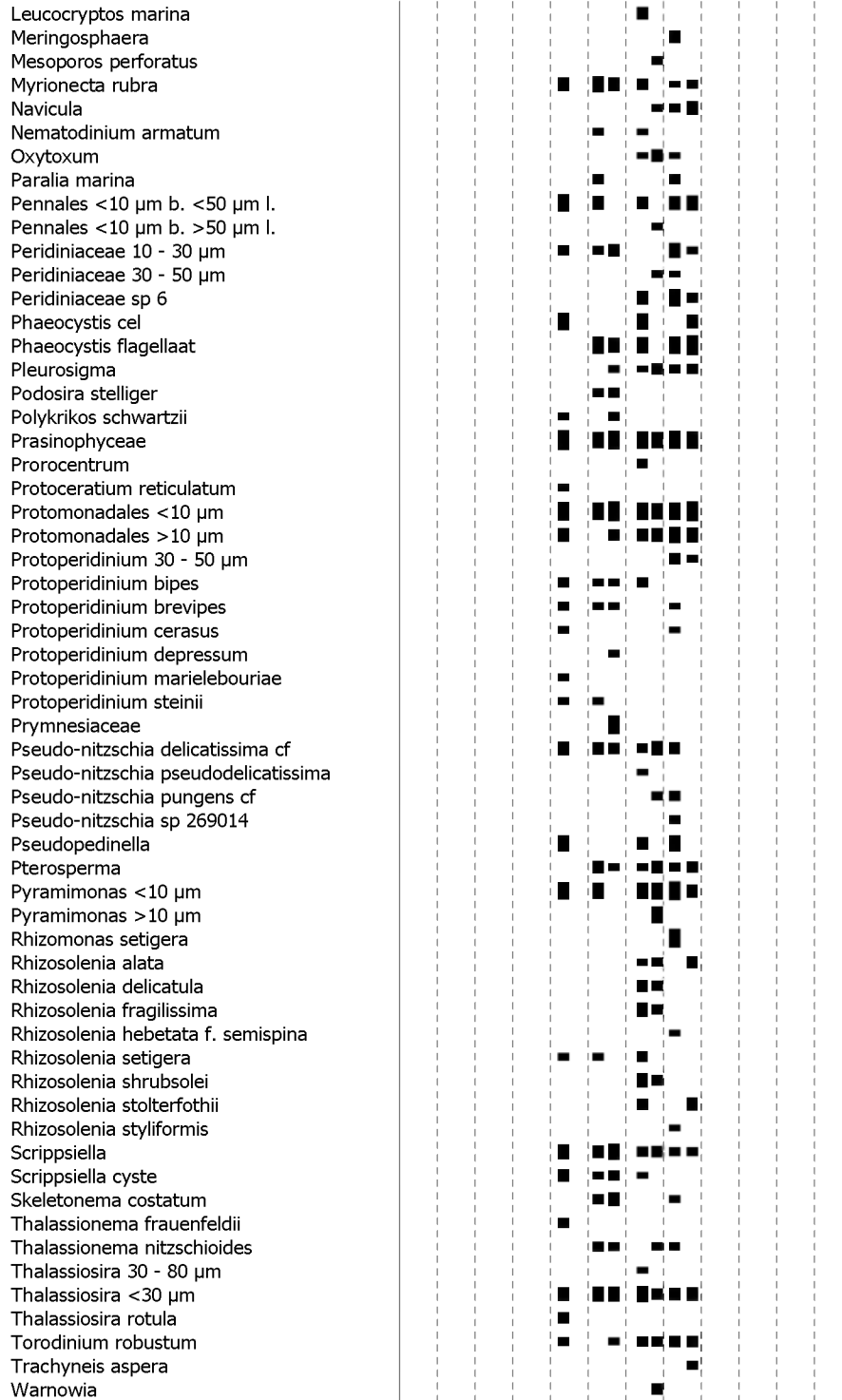
- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l



Noordzee: Terschelling 135 (spronglaag)

2004

J F M A M J J A S O N D

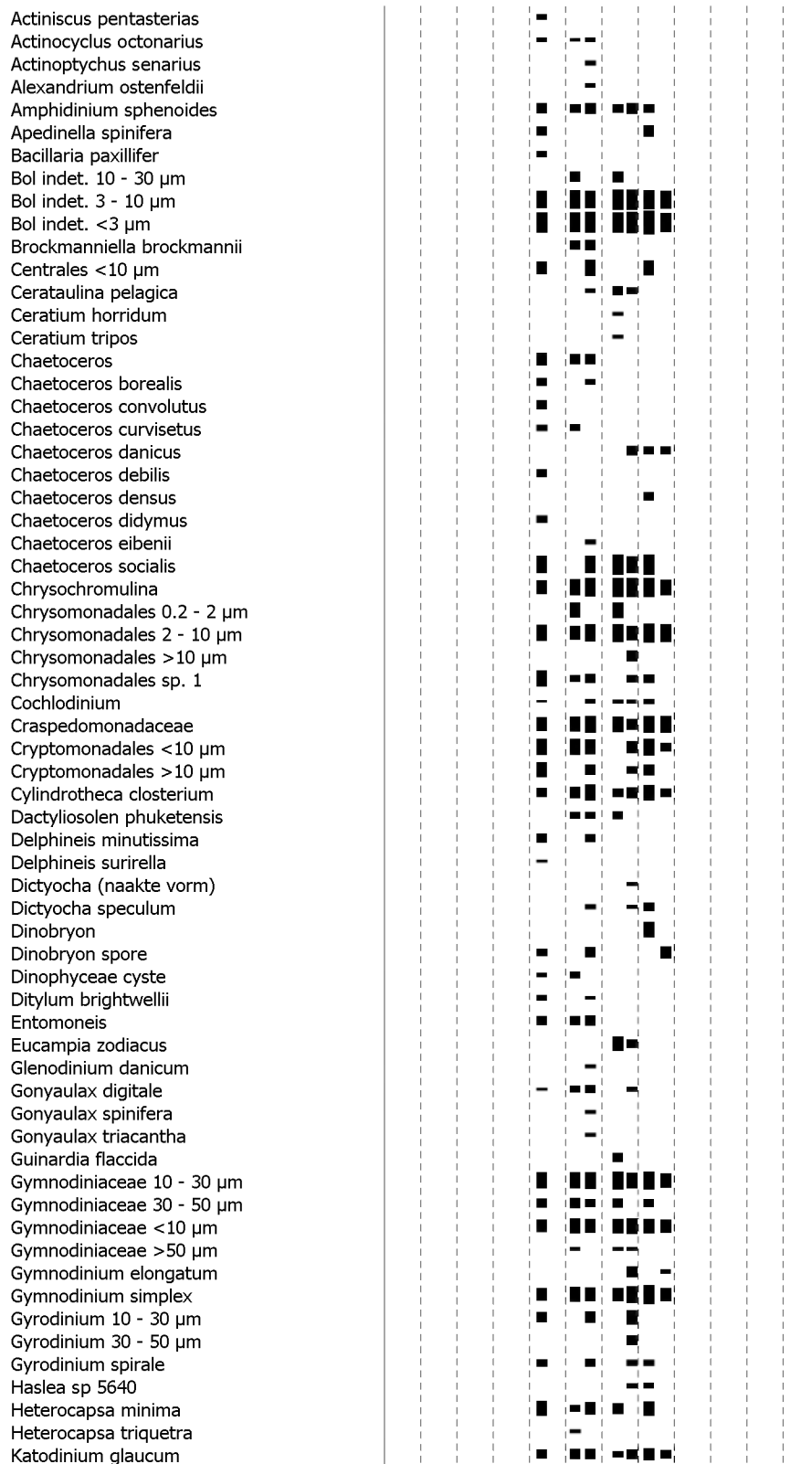


- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 135 (bodemlaag)

2004

J F M A M J J A S O N D

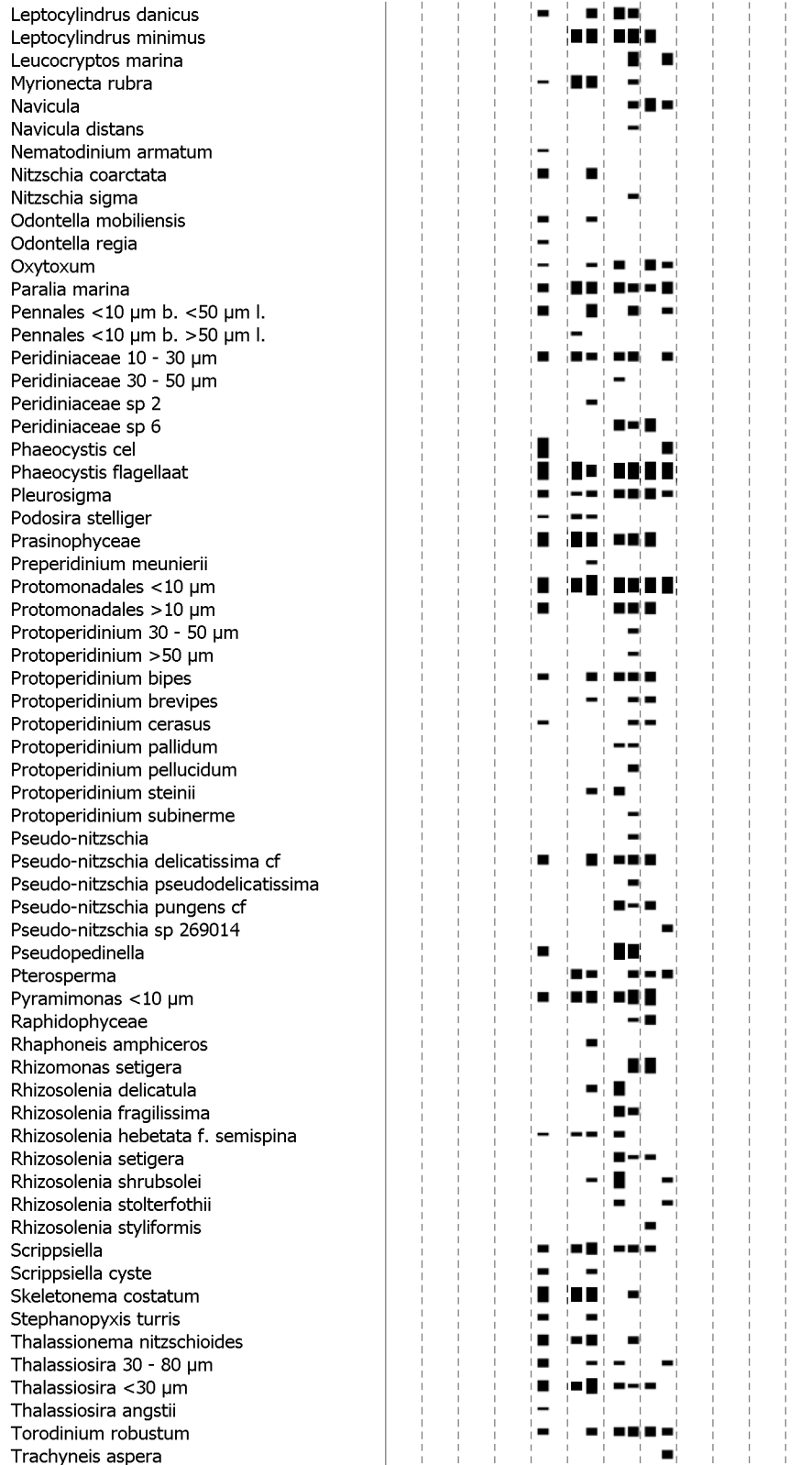


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 135 (bodemiaag)

2004

J F M A M J J A S O N D



■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 135 (bodemlaag)

2004

J F M A M J J A S O N D

Warnowia

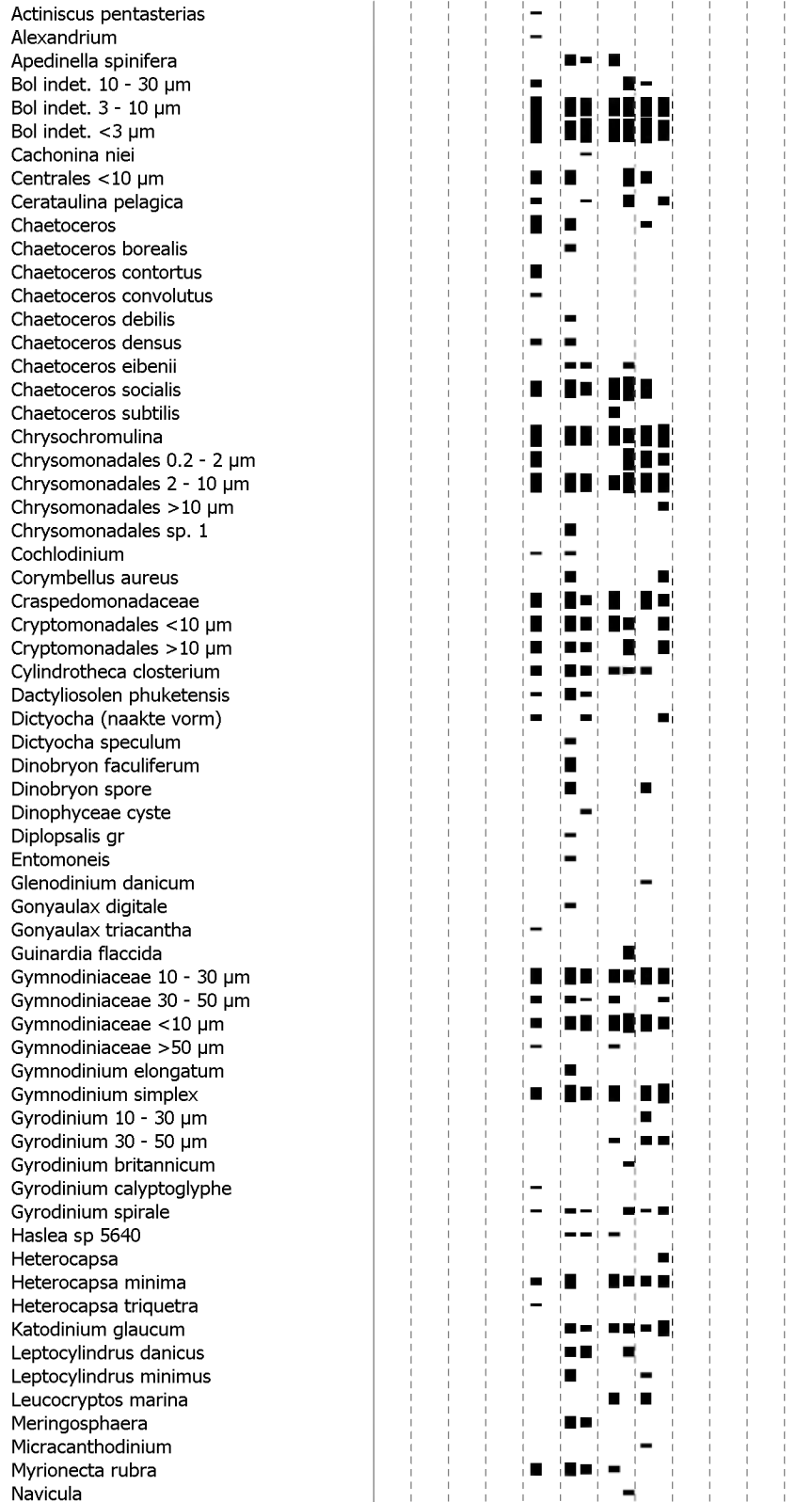


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 175 (spronglaag)

2004

J F M A M J J A S O N D

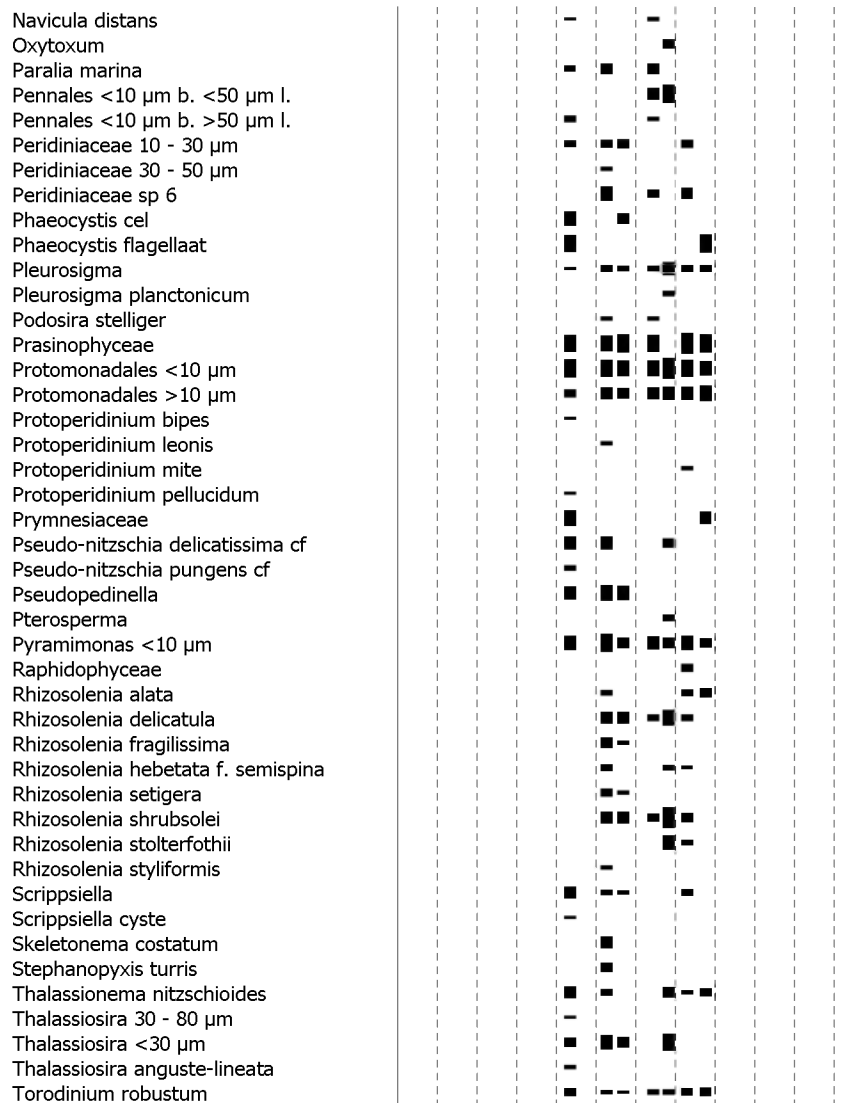


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 175 (spronglaag)

2004

J F M A M J J A S O N D

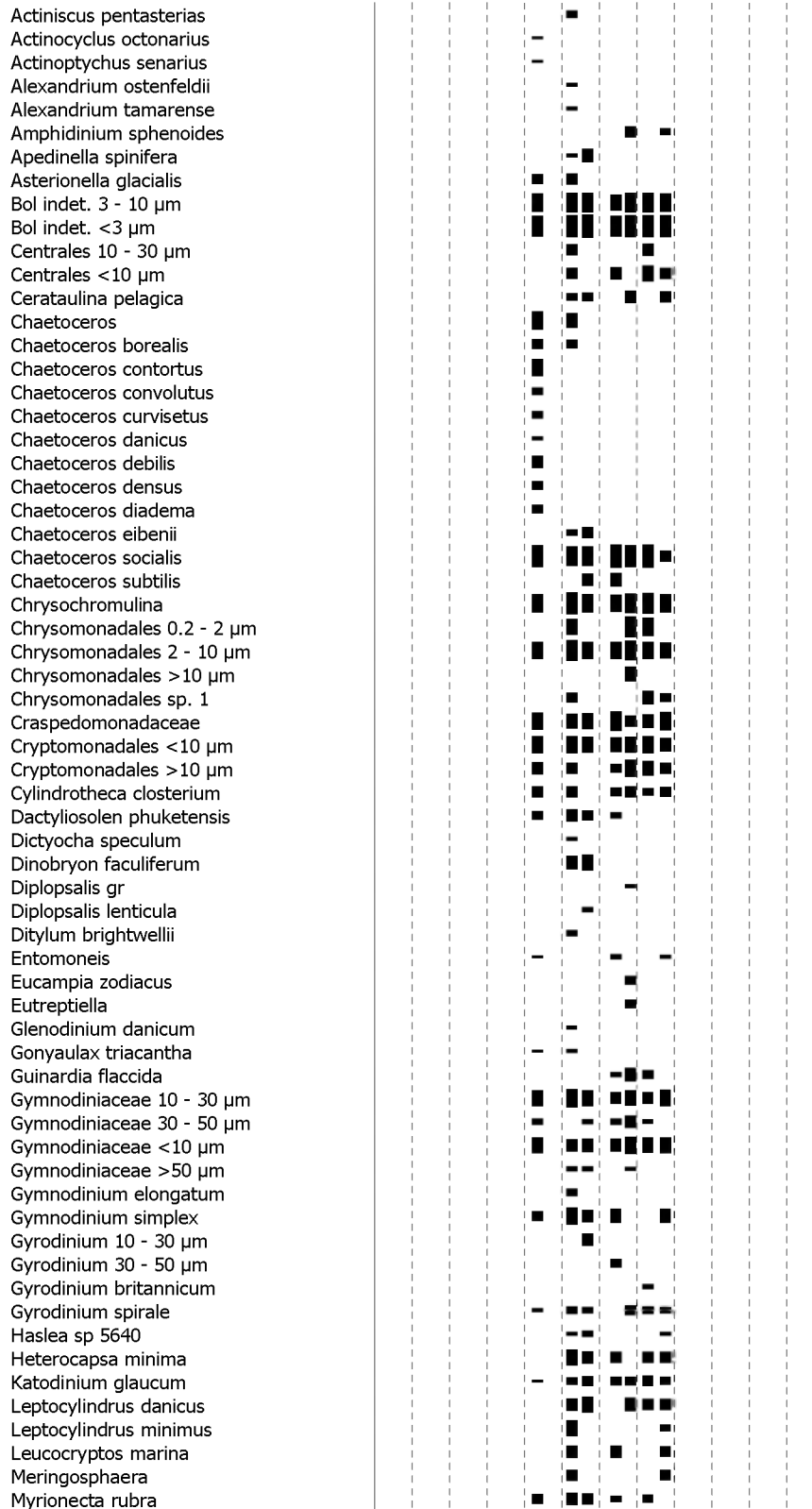


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 175 (bodemiaag)

2004

J F M A M J J A S O N D

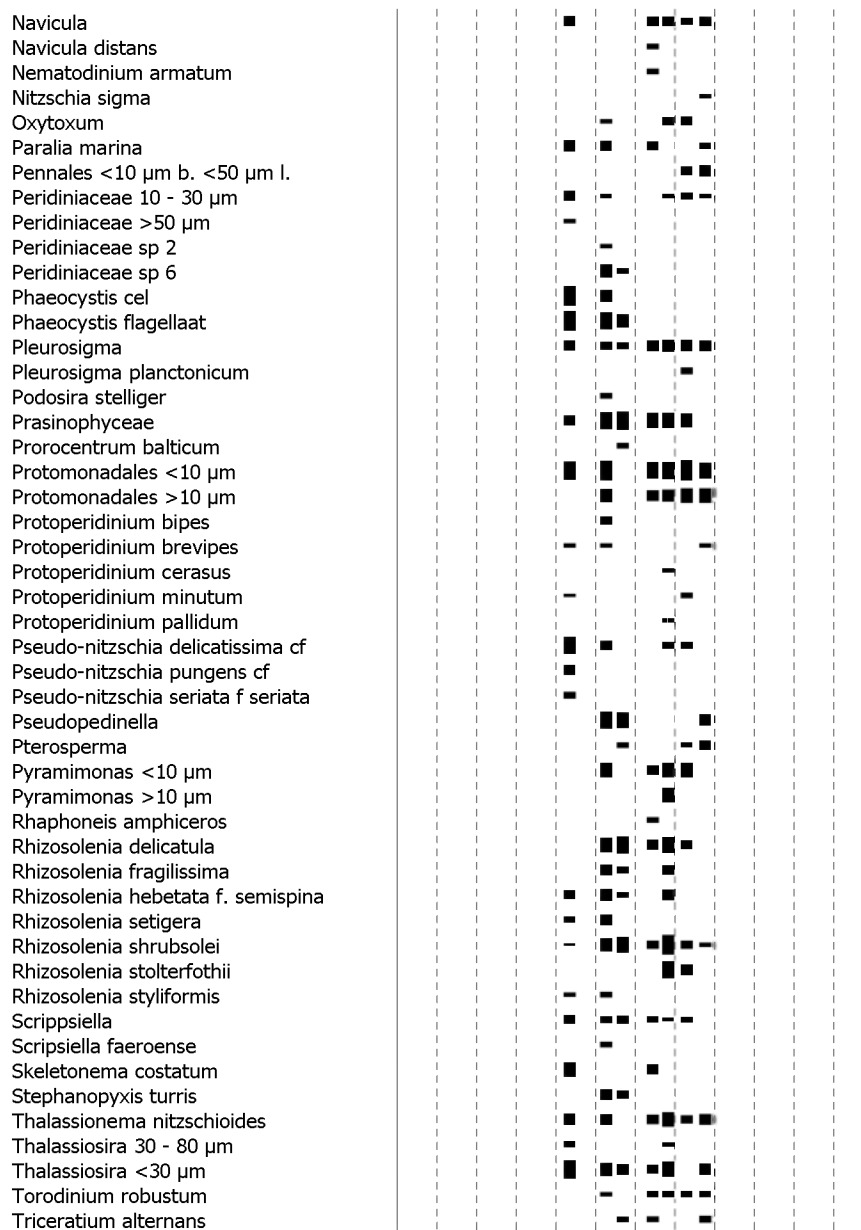


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 175 (bodemlaag)

2004

J F M A M J J A S O N D



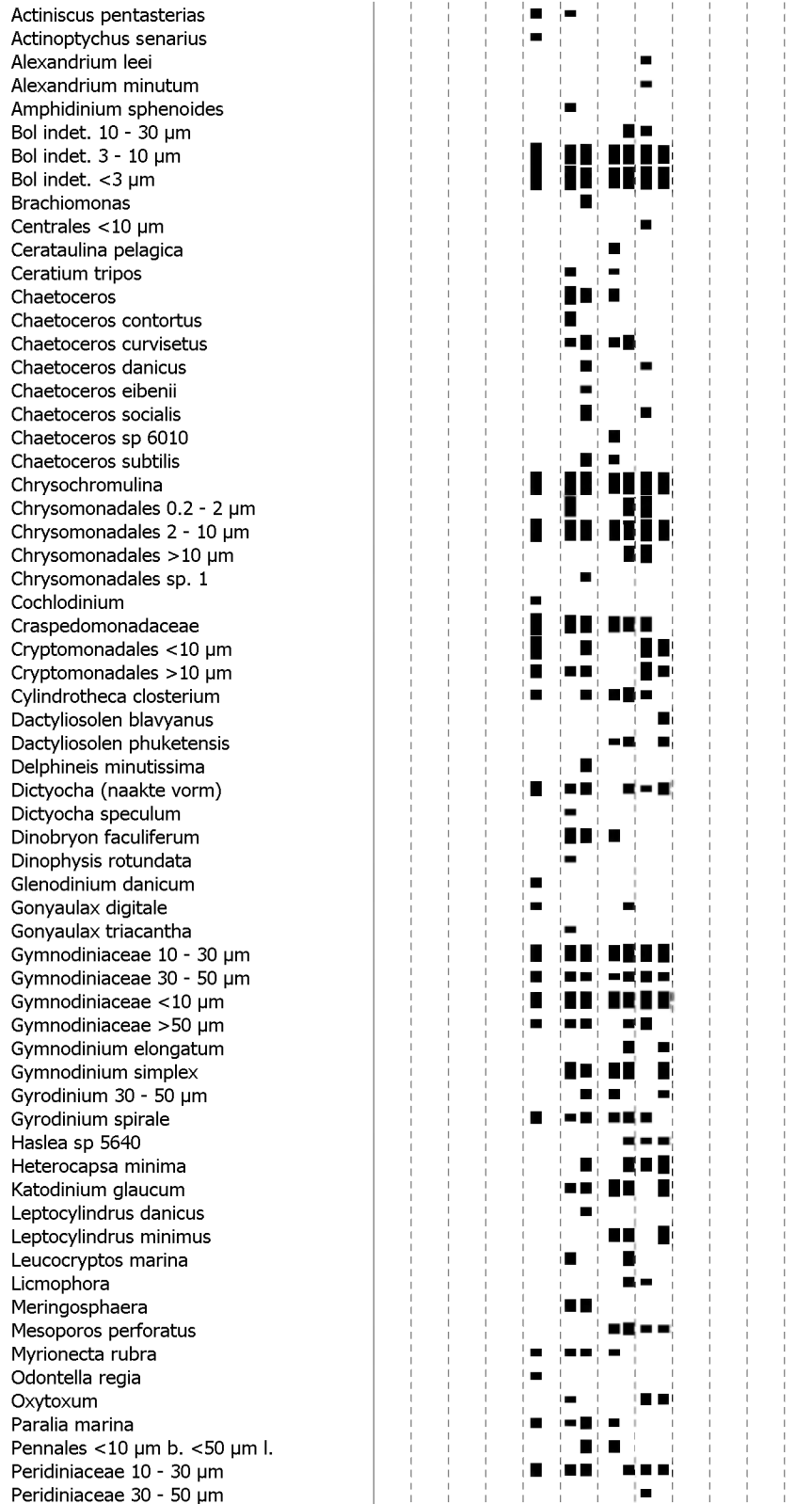
■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l



Noordzee: Terschelling 235 (spronglaag)

2004

J F M A M J J A S O N D

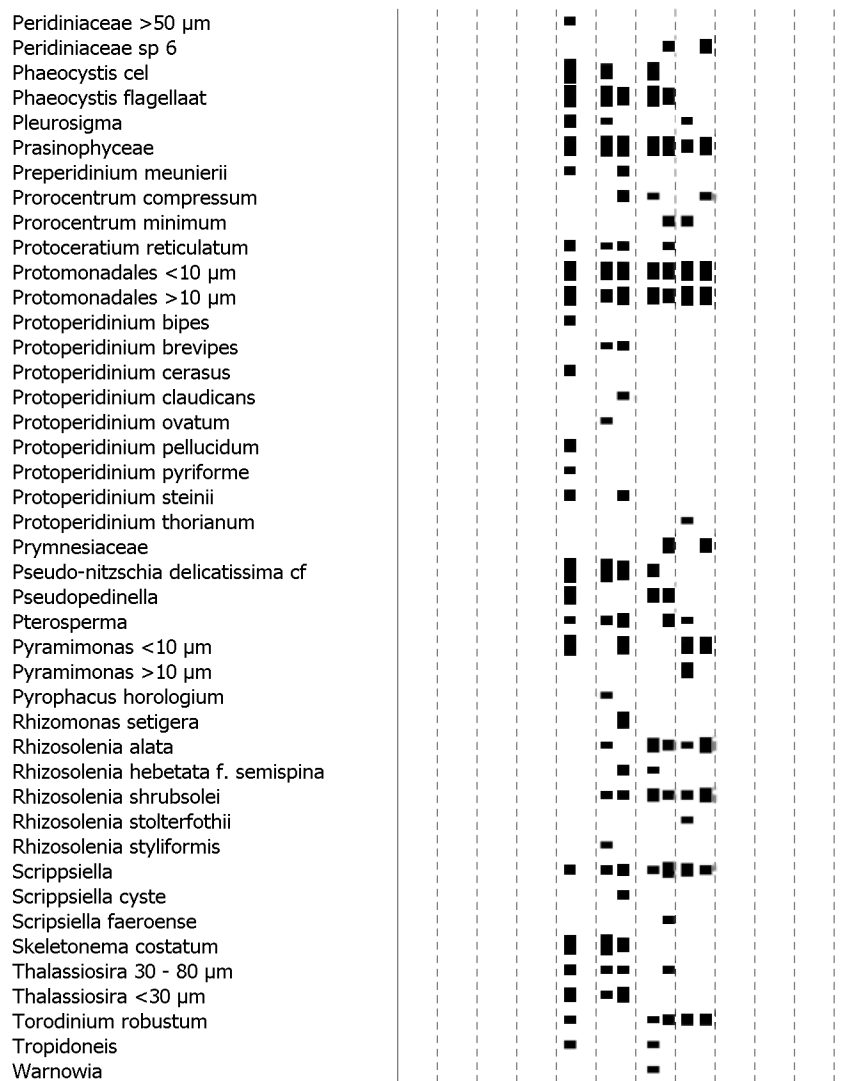


- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 235 (spronglaag)

2004

J F M A M J J A S O N D

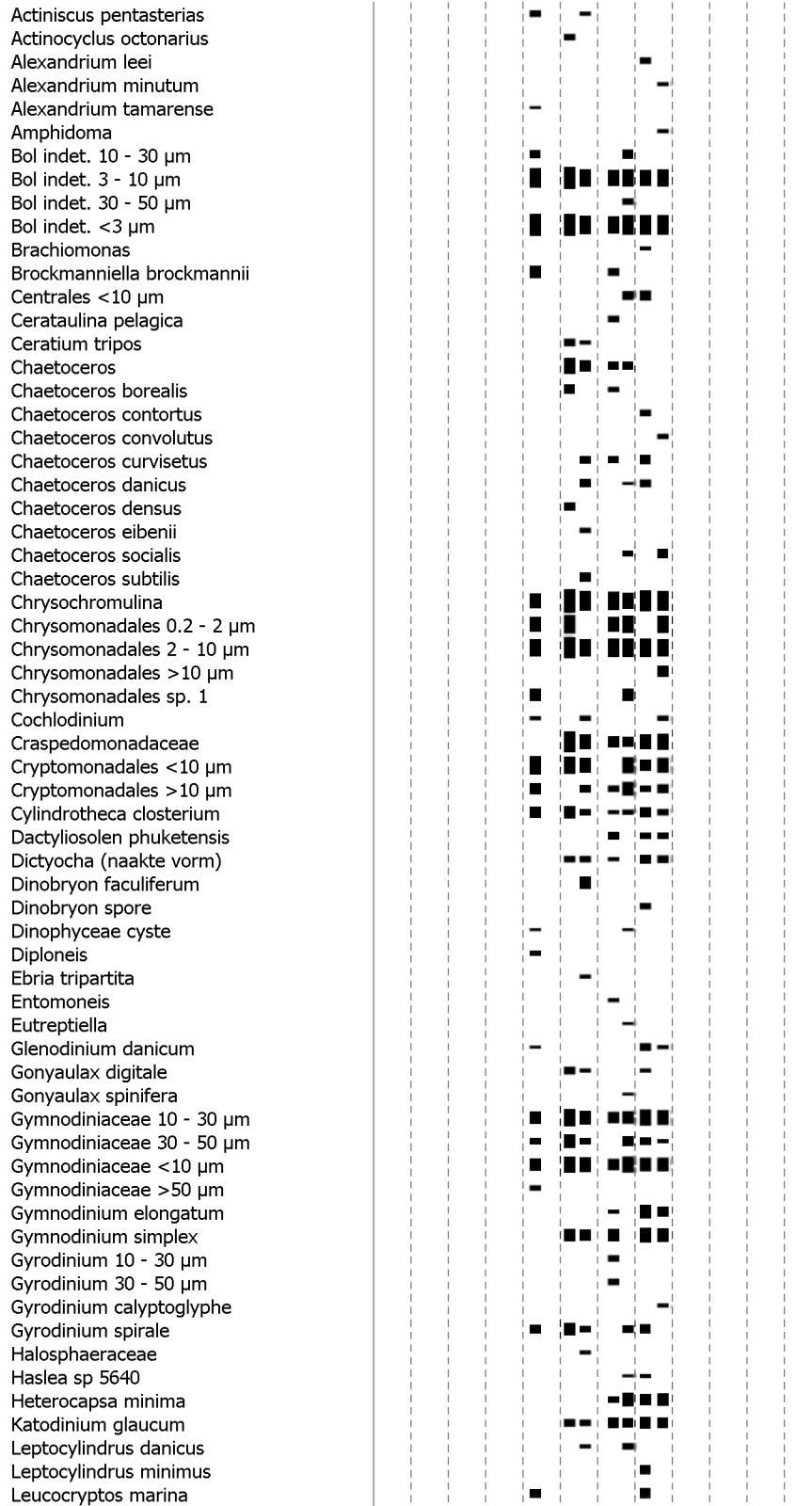


- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000 n/l

Noordzee: Terschelling 235 (bodemaag)

2004

J F M A M J J A S O N D

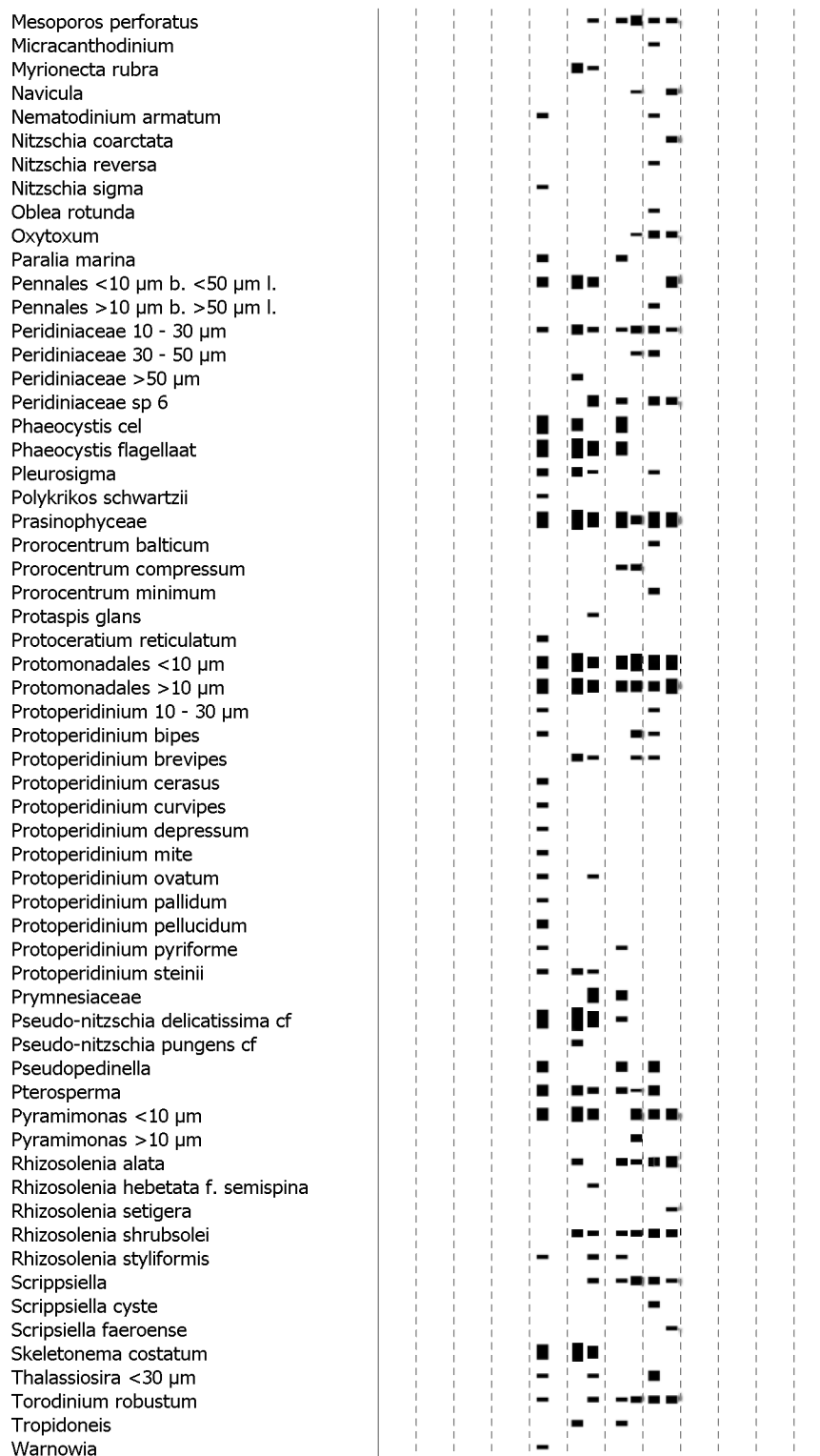


■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Noordzee: Terschelling 235 (bodemlaag)

2004

J F M A M J J A S O N D

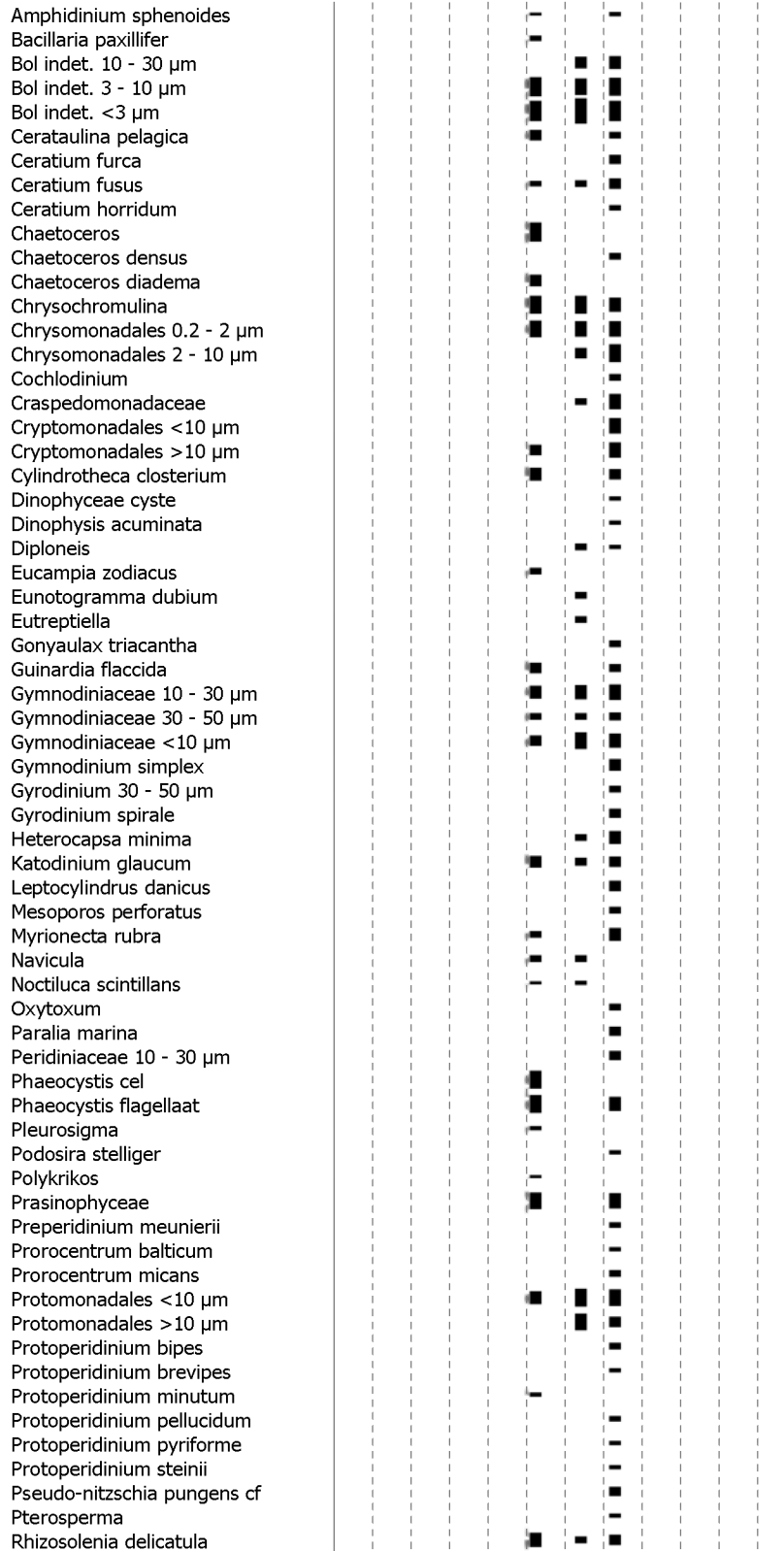


- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Noordzee: Rottumerplaat 70 (spronglaag)

2004

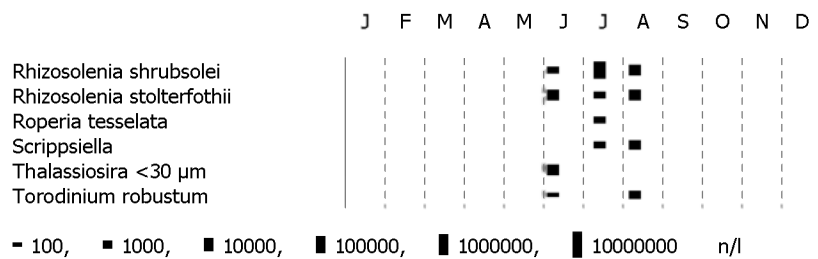
J F M A M J J A S O N D



- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Noordzee: Rottumerplaat 70 (spronglaag)

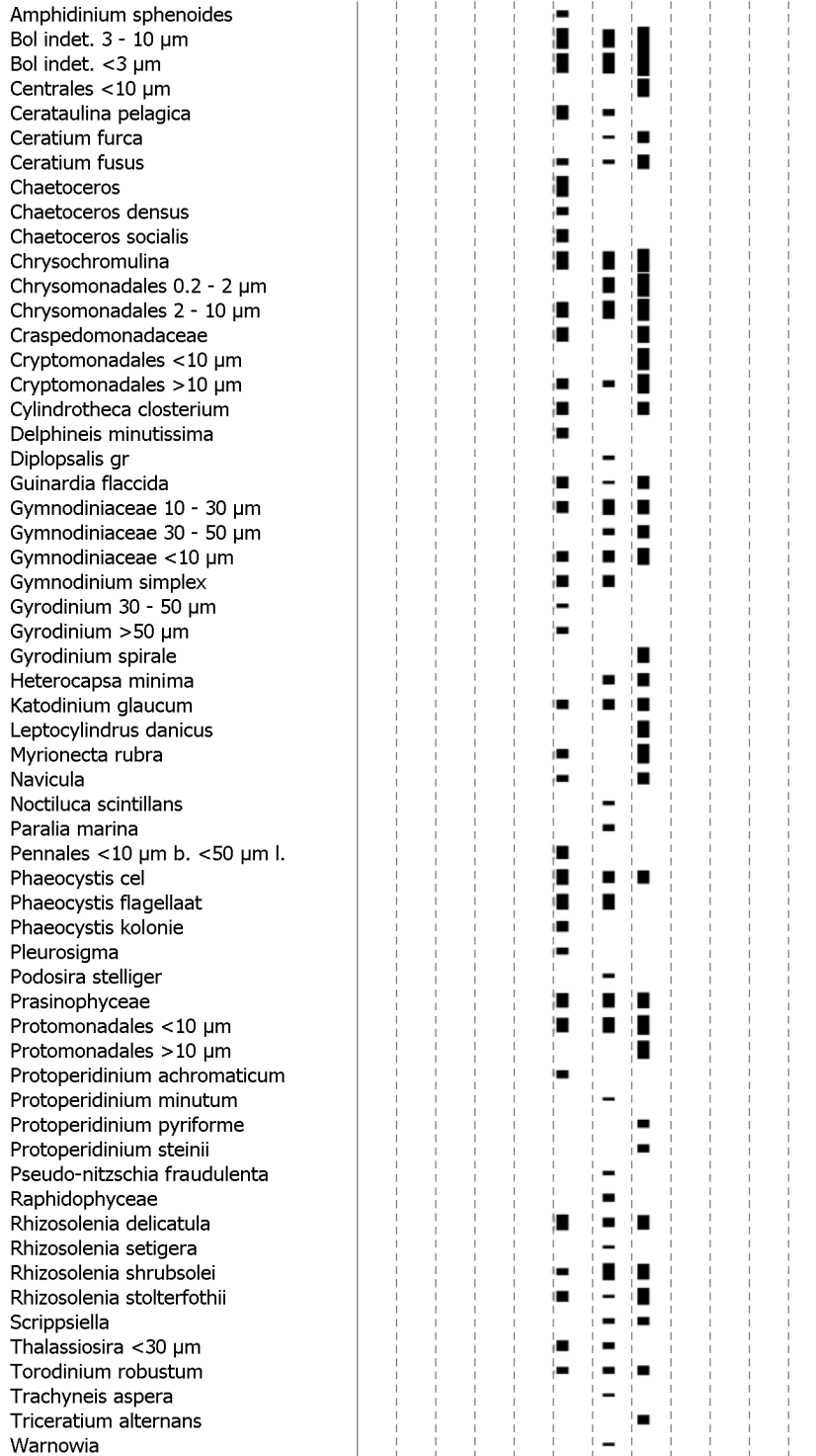
2004



Noordzee: Rottumerplaat 70 (bodemlaag)

2004

J F M A M J J A S O N D

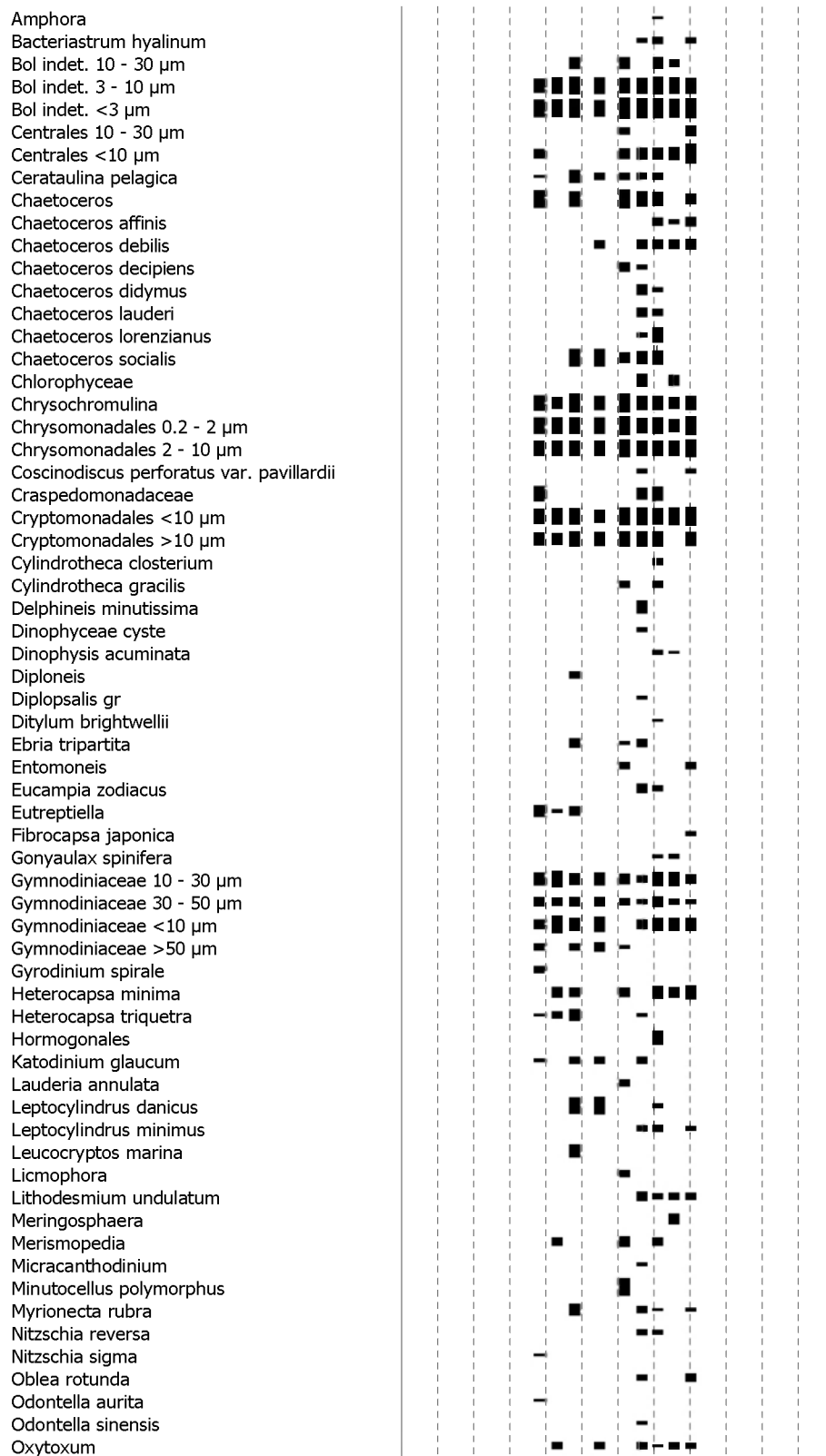


- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Grevelingen: Dreischor (spronglaag)

2004

J F M A M J J A S O N D



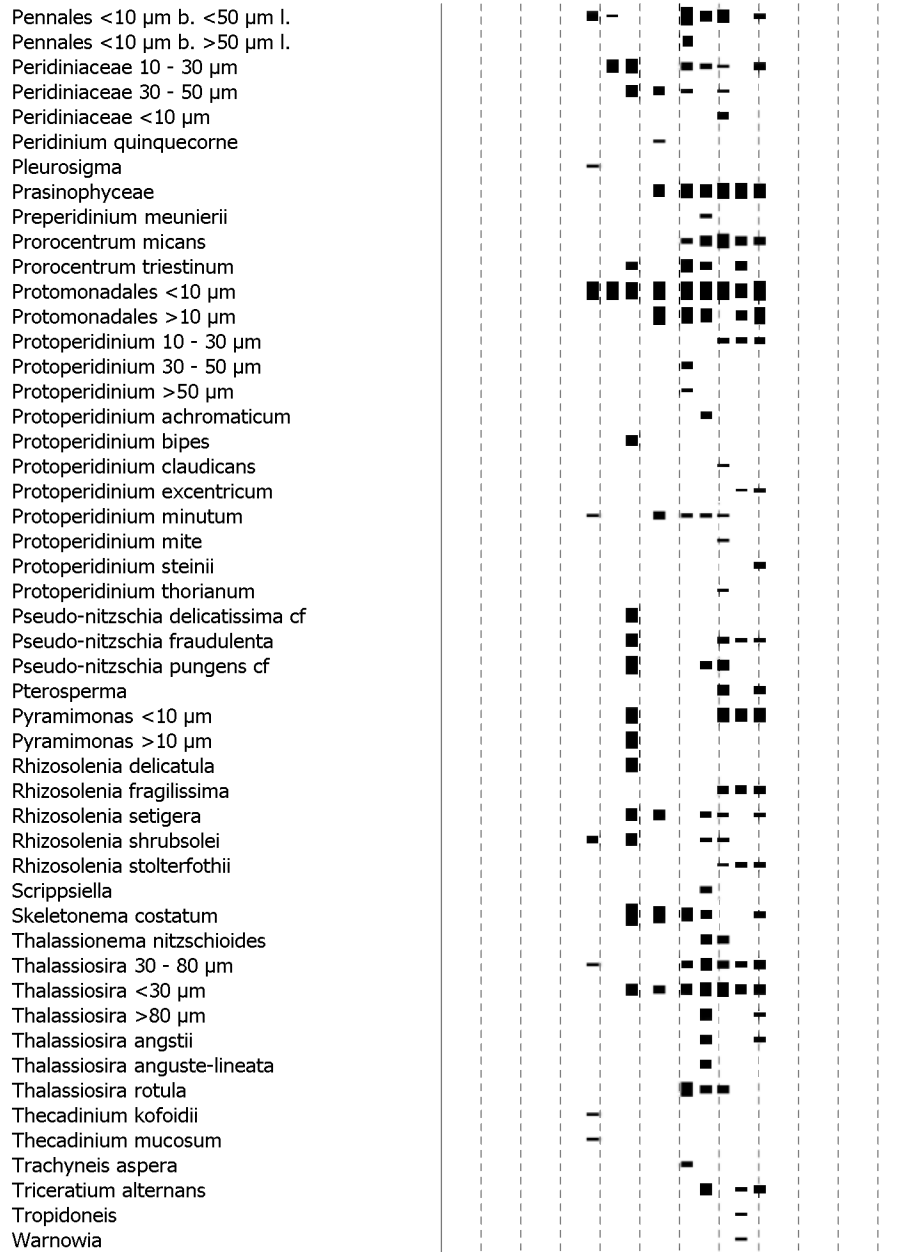
- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l



Grevelingen: Dreischor (spronglaag)

2004

J F M A M J J A S O N D

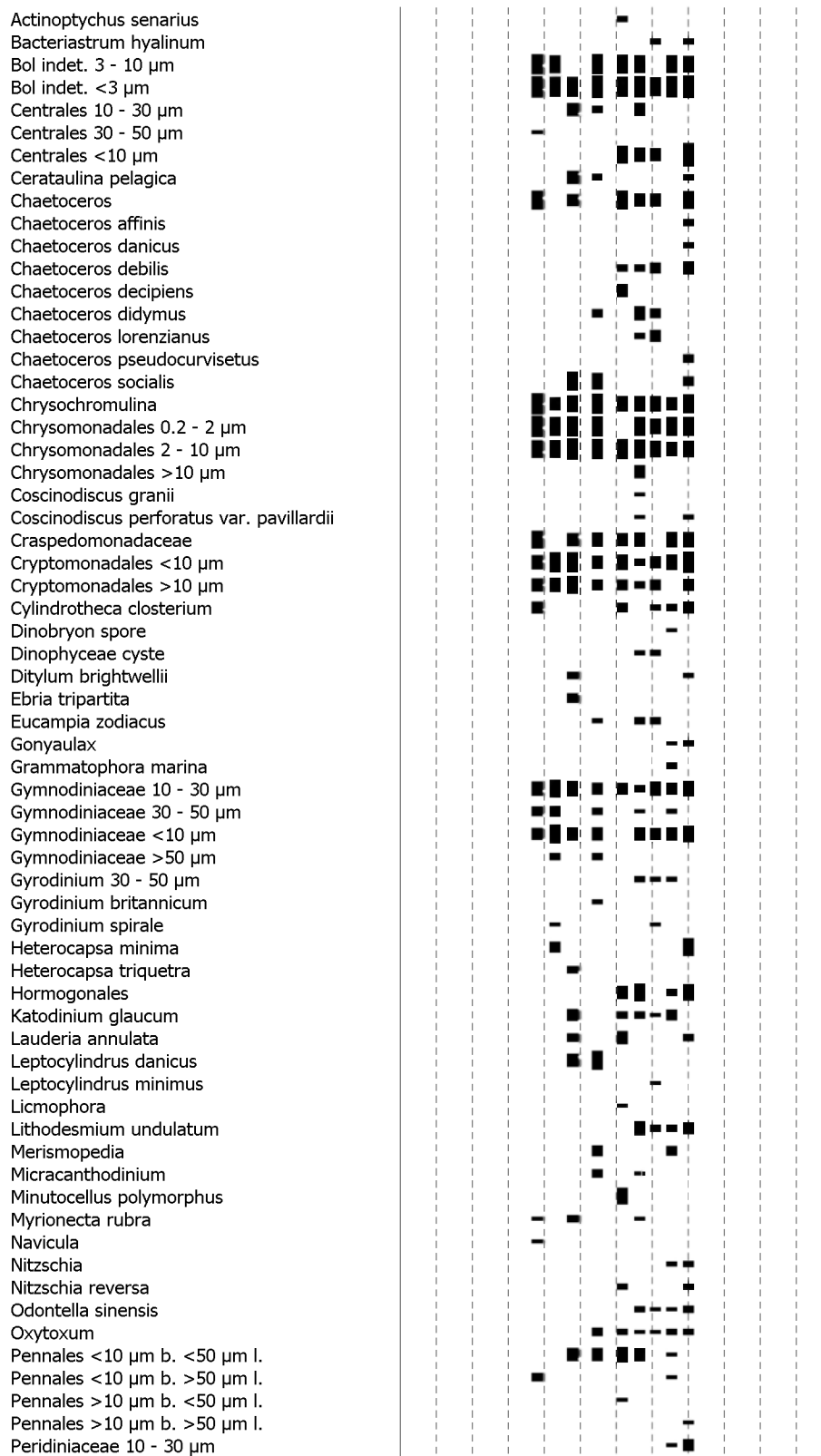


- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l

Grevelingen: Dreischor (bodemiaag)

2004

J F M A M J J A S O N D

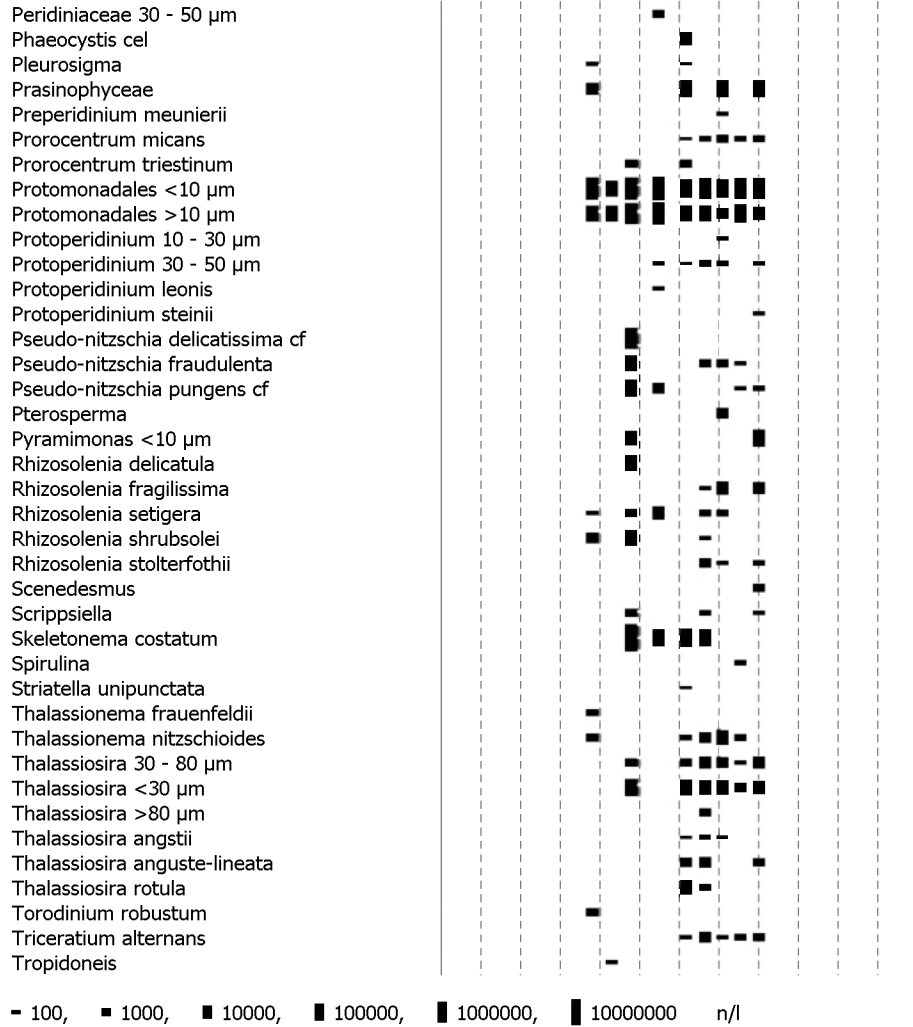


- 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000 n/l

Grevelingen: Dreischor (bodemiaag)

2004

J F M A M J J A S O N D



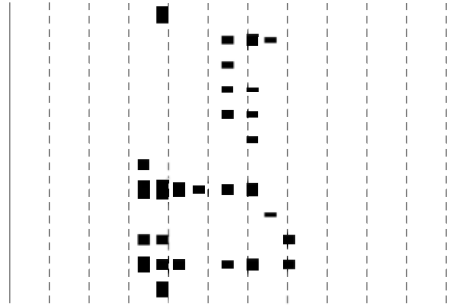


Veerse Meer: Soelekerkepolder Oost (spronglaag)

2004

J F M A M J J A S O N D

- Pyramimonas >10 µm
- Rhizosolenia delicatula
- Rhizosolenia fragilissima
- Rhizosolenia setigera
- Rhizosolenia shrubsolei
- Rhizosolenia stolterfothii
- Scrippsiella
- Skeletonema costatum
- Surirella
- Thalassiosira 30 - 80 µm
- Thalassiosira <30 µm
- Thalassiosira rotula



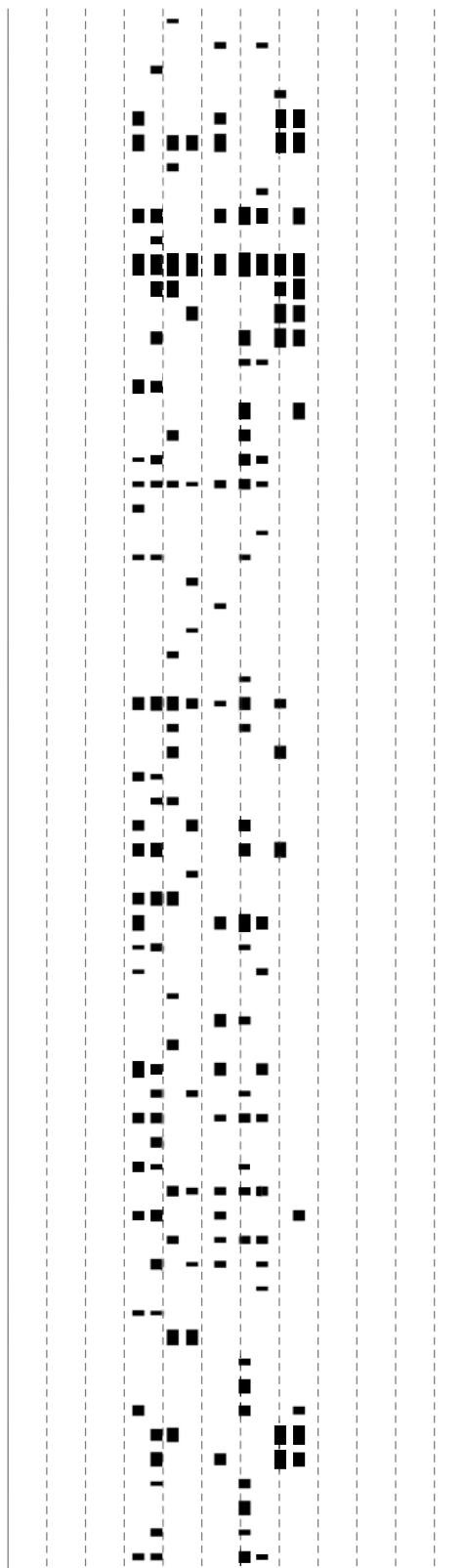
- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/l

Veerse Meer: Soelekerkepolder Oost (bodemlaag)

2004

J F M A M J J A S O N D

Actinoptychus senarius  
 Amphora  
 Asterionella glacialis  
 Bol indet. 10 - 30 µm  
 Bol indet. 3 - 10 µm  
 Bol indet. <3 µm  
 Brockmanniella brockmannii  
 Centrales 10 - 30 µm  
 Centrales <10 µm  
 Cerataulina pelagica  
 Chlorophyceae  
 Chroococcales  
 Chryomonadales 0.2 - 2 µm  
 Chryomonadales 2 - 10 µm  
 Coscinodiscus granii  
 Craspedomonadaceae  
 Cryptomonadales <10 µm  
 Cryptomonadales >10 µm  
 Cyndrotheca closterium  
 Diploneis  
 Diplopsalis gr  
 Ditylum brightwellii  
 Entomoneis  
 Eutreptiella  
 Fragilaria  
 Glenodinium foliaceum  
 Grammatophora marina  
 Guinardia flaccida  
 Gymnodiniaceae 10 - 30 µm  
 Gymnodiniaceae 30 - 50 µm  
 Gymnodiniaceae <10 µm  
 Gymnodiniaceae >50 µm  
 Gyrodinium spirale  
 Heterocapsa minima  
 Hormogonales  
 Katodinium asymmetricum  
 Katodinium glaucum  
 Kirchneriella  
 Licmophora  
 Melosira moniliformis  
 Melosira nummuloides  
 Merismopedia  
 Micracanthodinium  
 Monoraphidium  
 Myrionecta rubra  
 Navicula  
 Nitzschia  
 Oblea rotunda  
 Paralia marina  
 Pennales <10 µm b. <50 µm l.  
 Pennales <10 µm b. >50 µm l.  
 Pennales >10 µm b. <50 µm l.  
 Pennales >10 µm b. >50 µm l.  
 Peridiniaceae 10 - 30 µm  
 Planktothrix agardhii  
 Pleurosigma  
 Prasinophyceae  
 Prorocentrum minimum  
 Protomonadales <10 µm  
 Protomonadales >10 µm  
 Pseudo-nitzschia pungens cf  
 Pyramimonas <10 µm  
 Rhaphoneis amphiceros  
 Rhizosolenia delicatula



- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000 n/

Veerse Meer: Soelekerkepolder Oost (bodemlaag)

2004

J F M A M J J A S O N D

- Rhizosolenia setigera
- Rhizosolenia shrubsolei
- Rhizosolenia stolterfothii
- Scrippsiella
- Skeletonema costatum
- Stephanodiscus
- Thalassionema nitzschioides
- Thalassiosira 30 - 80 µm
- Thalassiosira <30 µm
- Thalassiosira rotula

- 10, ■ 100, ■ 1000, ■ 10000, ■ 100000, ■ 1000000, ■ 10000000, ■ 100000000, ■ 1000000000 n/l

