

Croisières Matière Organique

(Heincké et Mechelen)

Avril - juillet 1978

Biomasses Zooplanctoniques

M. BOSSICART

avec l'aide à bord de N. DARO,

O. CROMBOOM, J. NIJS.

Lab. Ekologie & Systematiek
V.U.B.

LABORATORIUM VOOR EKOLOGIE EN SYSTEMATIEK VUB

Onderzoek ZOOPLANKTON
 Kruisvaart : *Oeganeise Stoffen*
 Station : *Nieuwsluisen*
 datum : 13-7-88 uur : 15.45
 positie : . diepte : - 2m

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|------------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | ± 380 | 0,08 |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | 440 | 0,31 - 0,4 |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | - | - |
| 5223 Copepoda nauplii | 7500 | 0,9 - 3,25 |
| Copepoda copepodiet | 1020 | 0,52 - 1,32 |
| 5629 Copepoda adult | - | - |
| 5242 Cirripedia (1) nauplii | 480 | 0,23 - 0,38 |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echninodermata Larvae spec.</u> | 60 | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | 20 | 0,8 - 0,10 |
| 5787 | | |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 2,22 - 6,12 |

Kruisvaart : *Organische Stoffen*
 Station : *Wierwoud*
 datum : *13-1-89* uur : *15.15*

positie :

diepte : *~200*

| COPEPODA | | aantal per m ³ | | adult | |
|----------------------------|--|---------------------------|--------------------|--------|--|
| | | nauplii | copit. | totaal | |
| <u>CALANOIDA</u> | | | | | |
| Acartia clausi | | 5632 <i>1620</i> | 5104 <i>180</i> | 5098 | |
| Acartia discaudata | | | | 5105 | |
| Calanus halgolandicus | | | | 5124 | |
| Calanus finmarchicus | | 5654 | 5114 | 5120 | |
| Centropages hamatus | | 5665 <i>400</i> | 5796 <i>580</i> | 5866 | |
| Centropages typicus | | 5672 | 5136 | 5132 | |
| Isias clavipes | | | | 5174 | |
| Labidocera wollastoni | | | | 5175 | |
| Metrida lucens | | | | 5185 | |
| Oithona sp. | | | | 5299 | |
| Faracalanus parvus | | 5798 | 5194 | 5191 | |
| Parapontella brevicornis | | | | 5195 | |
| Pseudocalanus elongatus | | 5812 <i>40</i> | 5206 | 5203 | |
| Temora longicornis | | 5846 <i>5200</i> | 5217 <i>160</i> | 5214 | |
| onbepaald | | 5653 | | 5189 | |
| totaal | | 5652 <i>100</i> | <i>40</i> | 5097 | |
| <u>HARPACTICIDAE</u> | | | | | |
| Alteuta | | | | | |
| Canuella perplexa | | | | | |
| Ectinosoma elongatum | | | | | |
| Euterpina acutifrons | | <i>140</i> | <i>60</i> | 5235 | |
| Longipedia minor | | | | | |
| Tachidus brevicornis | | | | | |
| onbepaald | | | | 5738 | |
| totaal | | | | 5231 | |
| <u>CYCLOPOIDA</u> | | | | | |
| Cyclopina littoralis | | | | | |
| totaal | | | | 5224 | |
| <u>COPEPODES PARASITES</u> | | | | | |
| Caligus sp. | | | | 5240 | |
| Corycaeus anglicus | | | | 5225 | |
| Lerneia sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | | 5690 | | 5189 | |
| totaal | | 5223 <i>7500</i> | <i>1020</i> | 5629 | |

LABORATORIUM VOOR EKOLOGIE EN SYSTEMATIEK VUB

Onderzoek ZOOPLANKTON

Kruisvaart : *Organische stoffen*

Station : *Ostende pt 33*

datum : *11-7-78* uur : *11,45*

positie : diepte : *-2m*

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|-----------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | 100 | 0,02 |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | 20 | 0,01 - 0,18 |
| Lanice spec. | - | - |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | | |
| 5223 Copepoda nauplii | 3480 | 0,42 - 1,77 |
| Copepoda copepodiet | 1680 | 0,86 - 2,69 |
| 5629 Copepoda adult | 40 | 0,01 - 0,02 |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea <i>keg alleen</i> | 20 | - |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echinodermata Larvae spec.</u> | | |
| 5707 | 240 | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | 60 | 0,25 - 0,58 |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 1,56 - 5,26 |

Kruisvaart : Organische stoffen

Station : Ostende pt 33

datum : 11-7-78 uur : 11,45

positie :

diepte : -2m

aantal per m³

COPEPODA

| COPEPODA | nauplii | copit. | adult | | |
|----------------------------|--------------|--------------|--------|----|----|
| | | | totaal | ♀ | ♂ |
| <u>CALANOIDA</u> | | | | | |
| Acartia clausi | 5632 640 | 5104 1060 | 5098 | | |
| Acartia discaudata | | | 5105 | | |
| Calanus halgolandicus | | | 5124 | | |
| Calanus finmarchicus | 5654 | 5114 | 5120 | | |
| Centropages hamatus | 5665 460 | 5796 120 | 5866 | | |
| Centropages typicus | 5672 | 5136 | 5132 | | |
| Isias clavipes | | | 5174 | | |
| Labidocera wollastoni | | | 5175 | | |
| Metrida lucens | | | 5185 | | |
| Oithona sp. | | | 5299 | | |
| Paracalanus parvus | 5798 | 5194 | 5191 | | |
| Parapontella brevicornis | | | 5195 | | |
| Pseudocalanus elongatus | 5812 200 | 5206 160 | 5203 | | |
| Temora longicornis | 5846 1980 | 5217 180 | 5214 | | |
| onbepaald | 5653 140 | 100 | 5189 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| Alteuta | | | | | |
| Canuella perplexa | | | | | |
| Ectinosoma elongatum | | | | | |
| Euterpina acutifrons | 60 | 40 | 5235 | 40 | 20 |
| Longipedia minor | | | | | |
| Tachidus brevicornis | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| Cyclopina littoralis | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| Caligus sp. | | 20 | 5240 | | |
| Corycaeus anglicus | | | 5225 | | |
| Lerneae sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 3480 | 1680 | 5629 | 40 | |

LABORATORIUM VOOR EKOLOGIE EN SYSTEMATIEK VUB

Onderzoek ZOOPLANKTON

Kruisvaart : *Organische Stoffen*

Station : *Cape Gris Nez*

datum : *12-7-78* uur : *07.00*

positie : diepte : *-2m*

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|--|------------------------------|---|
| <u>Acnidaria</u> 5693 Ctenophora | | |
| <u>Nemathelminthes</u> Nematoda spec. | | |
| <u>Mollusca</u> 5734 Gasteropoda (1) 5745 Lamellibranchia (1) | 200 | 0,04 |
| <u>Annelida</u> 5807 Polychaeta spec. Lanice spec. | | |
| <u>Crustacea</u> 5222 eggs Copepoda 5223 Copepoda nauplii Copepoda copepodiet 5629 Copepoda adult | 9220 500 220 | 11,06 - 47,02 0,255 - 0,8 0,71 - 1,09 |
| 5242 Cirripedia (1) 5797 Ostracoda 5706 Decapoda (1) <i>zoe</i> 5781 Mysidacea 5694 Cumacea 5744 Isopoda 5643 Amphipoda Cladocera 5084 Evadne 5585 Podon sp. | 40 80 | } 9,312 - 14,592 |
| <u>Chaetognatha</u> Sagitta spec. 5681 | | |
| <u>Echinodermata</u> Larvae spec. 5707 | | |
| <u>Tunicata</u> Oikopleura 5787 | 30 | 0,333 - 0,774 |
| <u>Pisces</u> 5727 eggs 5729 larvae | | |
| totaal | | 2,44 - 7,4 |
| | <i>avec décapodes</i> | 11,75 - 22 |

Kruisvaart : Organische Stoffen

Station : Cap Juis-ree

datum : 12-7-78 uur : 07.00

positie :

diepte : -2m

| COPEPODA | | aantal per m ³ | | | |
|----------------------------|--------------|---------------------------|-------------|--------|----|
| | | nauplii | copit. | adult | |
| | | | | totaal | ♀ |
| <u>CALANOIDA</u> | | | | | |
| Acartia clausi | 5632 8140 | 5104 220 | 5098 120 | 120 | |
| Acartia discaudata | | | 5105 | | |
| Calanus halgolandicus | | | 5124 | | |
| Calanus finmarchicus | 5654 | 5114 | 5120 | | |
| Centropages hamatus | 5665 80 | 5796 40 | 5866 20 | | 20 |
| Centropages typicus | 5672 | 5136 | 5132 | | |
| Isias clavipes | | | 5174 | | |
| Labidocera wollastoni | | | 5175 | | |
| Metrida lucens | | | 5185 | | |
| Oithona sp. | | | 5299 | | |
| Paracalanus parvus | 5798 | 5194 | 5191 | | |
| Parapontella brevicornis | | | 5195 | | |
| Pseudocalanus elongatus | 5812 160 | 5206 20 | 5203 | | |
| Temora longicornis | 5846 720 | 5217 160 | 5214 40 | 20 | 20 |
| onbepaald | 5653 20 | 20 | 5189 20 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| Alteuta | | | | | |
| Canuella perplexa | | | | | |
| Ectinosoma elongatum | | | | | |
| Euterpina acutifrons | 100 | 40 | 5235 20 | 20 | |
| Longipedia minor | | | | | |
| Tachidus brevicornis | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| Cyclopina littoralis | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| Caligus sp. | | | 5240 | | |
| Corycaeus anglicus | | | 5225 | | |
| Lerneae sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 9220 | 500 | 5629 220 | | |

Kruisvaart : *Organische Stoffen*

Station : *Cap Juby - mar*

datum : *12-7-78* uur : *07.00*

positie :

diepte : *2m*

COPEPODA

Biomassa mgC/m³

| | nauplii | copit. | adult | | |
|----------------------------|--------------------|----------|-------------------|-------------|-----------|
| | | | totaal | ♀ | ♂ |
| <u>CALANOIDA</u> | | | | | |
| Acartia clausi | 5632 | 5104 | 5098 | 0,36-0,43 | |
| Acartia discaudata | | | 5105 | | |
| Calanus halgolandicus | | | 5124 | | |
| Calanus finmarchicus | 5654 | 5114 | 5120 | | |
| Centropages hamatus | 5665 | 5796 | 5866 | | 0,05-0,14 |
| Centropages typicus | 5672 | 5136 | 5132 | | |
| Isias clavipes | | | 5174 | | |
| Labidocera wollastoni | | | 5175 | | |
| Metrida lucens | | | 5185 | | |
| Oithona sp. | | | 5299 | | |
| Paracalanus parvus | 5798 | 5194 | 5191 | | |
| Parapontella brevicornis | | | 5195 | | |
| Pseudocalanus elongatus | 5812 | 5206 | 5203 | | |
| Temora longicornis | 5846 | 5217 | 5214 | 0,04-0,11 | 0,04-0,11 |
| onbepaald | 5653 | | 5189 0,12 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| Alteuta | | | | | |
| Canuella perplexa | | | | | |
| Ectinosoma elongatum | | | | | |
| Euterpina acutifrons | | | 5235 | 0,0046-0,13 | |
| Longipedia minor | | | | | |
| Tachidus brevicornis | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| Cyclopina littorlais | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| Caligus sp. | | | 5240 | | |
| Corycaeus anglicus | | | 5225 | | |
| Lerneia sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 4,41 - 4,7 | 0,26-0,3 | 5629 0,71-1,03 | | |

Onderzoek ZOOPLANKTON
 Kruisvaart : Heincke
 Station : Ostende
 datum : 19-4-78 uur : 10.00
 positie : diepte : -2m

veel diatomées
 maar minder dan 5-4-78
 in Ostende.

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|-----------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | | |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | | |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | | |
| 5223 Copepoda nauplii | 1560 | 0,19 - 0,8 |
| Copepoda copepodiet | 60 | 0,03 - 0,1 |
| 5629 Copepoda adult | 20 | 0,07 - 0,17 |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echinodermata Larvae spec.</u> | | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | | |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 0,23 - 1,07 |

Kruisvaart : *Heineke*

Station : *Ostende*

datum : *19-4-78* uur : *10.00*

positie :

diepte : *-2 m*

aantal per m³

COPEPODA

| | nauplii | copit. | adult. | | |
|---------------------------------|--------------------|---------|------------|---|------|
| | | | totaal | ♀ | ♂ |
| <u>CALANOIDA</u> | | | | | |
| <i>Acartia clausi</i> | 5632 | 5104 | 5098 | | |
| <i>Acartia discaudata</i> | | | 5105 | | |
| <i>Calanus halgolandicus</i> | | | 5124 | | |
| <i>Calanus finmarchicus</i> | 5654 | 5114 | 5120 | | |
| <i>Centropages hamatus</i> | 5665 | 5796 | 5866 | | |
| <i>Centropages typicus</i> | 5672 | 5136 | 5132 | | |
| <i>Isias clavipes</i> | | | 5174 | | |
| <i>Labidocera wollastoni</i> | | | 5175 | | |
| <i>Metrida lucens</i> | | | 5185 | | |
| <i>Oithona</i> sp. | | | 5299 | | |
| <i>Paracalanus parvus</i> | 5798 | 5194 | 5191 | | |
| <i>Parapontella brevicornis</i> | | | 5195 | | |
| <i>Pseudocalanus elongatus</i> | 5812 360 | 5206 60 | 5203 20 | | 20 ? |
| <i>Temora longicornis</i> | 5846 1020 +160? | 5217 | 5214 | | |
| onbepaald | 5653 | 20 | 5189 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| <i>Alteuta</i> | | | | | |
| <i>Canuella perplexa</i> | | | | | |
| <i>Ectinosoma elongatum</i> | | | | | |
| <i>Euterpina acutifrons</i> | | | 5235 | | |
| <i>Longipedia minor</i> | | | | | |
| <i>Tachidus brevicornis</i> | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| <i>Cyclopina littoralis</i> | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| <i>Caligus</i> sp. | | | 5240 | | |
| <i>Corycaeus anglicus</i> | | | 5225 | | |
| <i>Lerne</i> a sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 1560 | 60 | 5629 20 | | 20 |

Onderzoek ZOOPLANKTON

Kruisvaart : *Heincke*

Station : *Calais*

datum : 18-4-78 uur : 22.00

positie : diepte : -2m

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|-----------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | | |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | | |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | - | |
| 5223 Copepoda nauplii | 640 | 0,08 - 0,33 |
| Copepoda copepodiet | 280 | 0,14 - 0,45 |
| 5629 Copepoda adult | 20 | 0,07 - 0,17 |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echinodermata Larvae spec.</u> | | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | 40 | 0,17 - 0,39 |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 0,46 - 1,33 |

Kruisvaart : *Heineke*

Station : *Calais*

datum : *18-4-78* uur : *22.00*

positie :

diepte : *-2 m*

COPEPODA

aantal per m³

| | nauplii | copit. | adult | | |
|---------------------------------|-------------|-------------|--------|----|----|
| | | | totaal | ♀ | ♂ |
| <u>CALANOIDA</u> | | | | | |
| <i>Acartia clausi</i> | 5632 | 5104 | 5098 | | |
| <i>Acartia discaudata</i> | | | 5105 | | |
| <i>Calanus halgolandicus</i> | | | 5124 | | |
| <i>Calanus finmarchicus</i> | 5654 | 5114 | 5120 | | |
| <i>Centropages hamatus</i> | 5665 | 5796 | 5866 | | |
| <i>Centropages typicus</i> | 5672 | 5136 | 5132 | | |
| <i>Isias clavipes</i> | | | 5174 | | |
| <i>Labidocera wollastoni</i> | | | 5175 | | |
| <i>Metrida lucens</i> | | | 5185 | | |
| <i>Oithona</i> sp. | | | 5299 | | |
| <i>Paracalanus parvus</i> | 5798 | 5194 | 5191 | | |
| <i>Parapontella brevicornis</i> | | | 5195 | | |
| <i>Pseudocalanus elongatus</i> | 5812 360 | 5206 280 | 5203 | 20 | 20 |
| <i>Temora longicornis</i> | 5846 260 | 5217 | 5214 | | |
| onbepaald | 5653 20 | | 5189 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| <i>Alteuta</i> | | | | | |
| <i>Canuella perplexa</i> | | | | | |
| <i>Ectinosoma elongatum</i> | | | | | |
| <i>Euterpina acutifrons</i> | | | 5235 | | |
| <i>Longipedia minor</i> | | | | | |
| <i>Tachidus brevicornis</i> | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| <i>Cyclopina littoralis</i> | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| <i>Caligus</i> sp. | | | 5240 | | |
| <i>Corycaeus anglicus</i> | | | 5225 | | |
| <i>Lerne</i> a sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 640 | 280 | 5629 | 20 | |

LABORATORIUM VOOR EKOLOGIE EN SYSTEMATIEK VUB

Onderzoek ZOOPLANKTON
 Kruisvaart : Heineke
 Station : Calais
 datum : 18-4-78 uur : 0.00
 positie : diepte : - 2 m

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|-----------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | | |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | | |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | - | |
| 5223 Copepoda nauplii | 300 | 0,04 - 0,15 |
| Copepoda copepodiet | 120 | 0,06 - 0,19 |
| 5629 Copepoda adult | 40 | 0,14 - 0,33 |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) zoe | 20 | 1,55 - 2,43 |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echinodermata Larvae spec.</u> | | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | | |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 0,23 - 0,68 |
| aSee Decapodes | | 1,79 - 3,11 |

Kruisvaart : Heineke

Station : Calais

datum : 18-4-78 uur : 0.00

positie :

diepte : -2m

COPEPODA

aantal per m³

| COPEPODA | nauplii | copit. | adult | | |
|----------------------------|----------|---------|---------|----|----|
| | | | totaal | ♀ | ♂ |
| <u>CALANOIDA</u> | | | | | |
| Acartia clausi | 5632 | 5104 | 5098 | | |
| Acartia discaudata | | | 5105 | | |
| Calanus halgolandicus | | | 5124 | | |
| Calanus finmarchicus | 5654 | 5114 | 5120 | | |
| Centropages hamatus | 5665 | 5796 | 5866 | | |
| Centropages typicus | 5672 | 5136 | 5132 | | |
| Isias clavipes | | | 5174 | | |
| Labidocera wollastoni | | | 5175 | | |
| Metridia lucens | | | 5185 | | |
| Oithona sp. | | | 5299 | | |
| Paracalanus parvus | 5798 | 5194 | 5191 | | |
| Parapontella brevicornis | | | 5195 | | |
| Pseudocalanus elongatus | 5812 120 | 5206 80 | 5203 40 | 20 | 20 |
| Temora longicornis | 5846 120 | 5217 | 5214 | | |
| onbepaald | 5653 60 | 40 | 5189 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| Alteuta | | | | | |
| Canuella perplexa | | | | | |
| Ectinosoma elongatum | | | | | |
| Euterpina acutifrons | | | 5235 | | |
| Longipedia minor | | | | | |
| Tachidus brevicornis | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| Cyclopina littoralis | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| Caligus sp. | | | 5240 | | |
| Corycaeus anglicus | | | 5225 | | |
| Lerneia sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 300 | 120 | 5629 40 | | |

Onderzoek ZOOPLANKTON

Kruisvaart : *Heineke*

Station : *Calais*

datum : *4-4-78* uur : *12.00*

positie : diepte : *-5m*

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|------------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | 40 | 0,01 |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | | |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | | |
| 5223 Copepoda nauplii | 440 | 0,05 - 0,22 |
| Copepoda copepodiet | 60 | 0,03 - 0,1 |
| 5629 Copepoda adult | | |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echninodermata Larvae spec.</u> | | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | 20 | 0,08 - 0,19 |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 0,17 - 0,52 |

LABORATORIUM VOOR EKOLOGIE EN SYSTEMATIEK - V. U. B.

Kruisvaart : Heineke

Station : Calais

datum : 4-4-78 uur : 12.00

positie :

diepte : -5m

COPEPODA

aantal per m³

| | nauplii | copit. | adult | |
|----------------------------|--------------------------|-------------|------------|--|
| | | | totaal | |
| <u>CALANOIDA</u> | | | | |
| Acartia clausi | 5632 | 5104 | 5098 | |
| Acartia discaudata | | | 5105 | |
| Calanus halgolandicus | | | 5124 | |
| Calanus finmarchicus | 5654 | 5114 | 5120 | |
| Centropages hamatus | 5665 | 5796 | 5866 | |
| Centropages typicus | 5672 | 5136 | 5132 | |
| Isias clavipes | | | 5174 | |
| Labidocera wollastoni | | | 5175 | |
| Metrida lucens | | | 5185 | |
| Oithona sp. | | | 5299 | |
| Paracalanus parvus | 5798 | 5194 | 5191 | |
| Parapontella brevicornis | | | 5195 | |
| Pseudocalanus elongatus | 5812 30 copepods wide | 340 5206 | 60 5203 | |
| Temora longicornis | 5846 | 80 5217 | 5214 | |
| onbepaald | 5653 | | 5189 | |
| totaal | 5652 | | 5097 | |
| <u>HARPACTICIDAE</u> | | | | |
| Alteuta | | | | |
| Canuella perplexa | | | | |
| Ectinosoma elongatum | | | | |
| Euterpina acutifrons | | 20 | 5235 | |
| Longipedia minor | | | | |
| Tachidus brevicornis | | | | |
| onbepaald | | | 5738 | |
| totaal | | | 5231 | |
| <u>CYCLOPOIDA</u> | | | | |
| Cyclopina littoralis | | | | |
| totaal | | | 5224 | |
| <u>COPEPODES PARASITES</u> | | | | |
| Caligus sp. | | | 5240 | |
| Corycaeus anglicus | | | 5225 | |
| Lerneae sp. | | | | |
| <u>COPEPODA</u> | | | | |
| onbepaald | 5690 | | 5189 | |
| totaal | 5223 + 80 | 440 60 | 5629 | |

Onderzoek ZOOPLANKTON
 Kruisvaart : Heineke
 Station : Ostende pt 13
 datum : 5-4-78 uur : 12.00
 positie : diepte : -5m

veel diatomées van alle
 soorten.

| | Aantal per m ³ | Biomassa mgC/m ³ min. - max. |
|-----------------------------------|------------------------------|---|
| <u>Acnidaria</u> | | |
| 5693 Ctenophora | | |
| <u>Nemathelminthes</u> | | |
| Nematoda spec. | | |
| <u>Mollusca</u> | | |
| 5734 Gasteropoda (1) | | |
| 5745 Lamellibranchia (1) | | |
| <u>Annelida</u> | | |
| 5807 Polychaeta spec. | 20 | 0,01 - 0,02 |
| Lanice spec. | | |
| <u>Crustacea</u> | | |
| 5222 eggs Copepoda | | |
| 5223 Copepoda nauplii | 2340 | 0,28 - 1,19 |
| Copepoda copepodiet | 120 | 0,06 - 0,19 |
| 5629 Copepoda adult | | |
| 5242 Cirripedia (1) | | |
| 5797 Ostracoda | | |
| 5706 Decapoda (1) | | |
| 5781 Mysidacea | | |
| 5694 Cumacea | | |
| 5744 Isopoda | | |
| 5643 Amphipoda | | |
| Cladocera 5084 Evadne | | |
| 5585 Podon sp. | | |
| <u>Chaetognatha Sagitta spec.</u> | | |
| 5681 | | |
| <u>Echinodermata Larvae spec.</u> | | |
| 5707 | | |
| <u>Tunicata Oikopleura</u> | | |
| 5787 | 20 | 0,08 - 0,19 |
| <u>Pisces</u> | | |
| 5727 eggs | | |
| 5729 larvae | | |
| totaal | | 0,43 - 1,59 |

Kruisvaart : *Heineke*

Station : *Calais*

datum : *12-4-78* uur : *0.00*

positie :

diepte : *-2m*

aantal per m³

COPEPODA

| COPEPODA | nauplii | copit. | adult. | | | |
|---------------------------------|--------------------|-------------------|--------|-----------|-----------|-----------|
| | | | totaal | ♀ | ♂ | |
| <u>CALANOIDA</u> | | | | | | |
| <i>Acartia clausi</i> | 5632 | 5104 | 5098 | | | |
| <i>Acartia discaudata</i> | | | 5105 | | | |
| <i>Calanus halgolandicus</i> | | | 5124 | | | |
| <i>Calanus finmarchicus</i> | 5654 | 5114 | 5120 | | | |
| <i>Centropages hamatus</i> | 5665 | 5796 | 5866 | | | |
| <i>Centropages typicus</i> | 5672 | 5136 | 5132 | | | |
| <i>Isias clavipes</i> | | | 5174 | | | |
| <i>Labidocera wollastoni</i> | | | 5175 | | | |
| <i>Metrida lucens</i> | | | 5185 | | | |
| <i>Oithona</i> sp. | | | 5299 | | | |
| <i>Paracalanus parvus</i> | 5798 | 5194 | 5191 | | | |
| <i>Parapontella brevicornis</i> | | | 5195 | | | |
| <i>Pseudocalanus elongatus</i> | 5812 <i>120</i> | 5206 <i>80</i> | 5203 | <i>40</i> | <i>20</i> | <i>20</i> |
| <i>Temora longicornis</i> | 5846 <i>120</i> | 5217 | 5214 | | | |
| onbepaald | 5653 <i>60</i> | <i>40</i> | 5189 | | | |
| totaal | 5652 | | 5097 | | | |
| <u>HARPACTICIDAE</u> | | | | | | |
| <i>Alteuta</i> | | | | | | |
| <i>Canuella perplexa</i> | | | | | | |
| <i>Ectinosoma elongatum</i> | | | | | | |
| <i>Euterpina acutifrons</i> | | | 5235 | | | |
| <i>Longipedia minor</i> | | | | | | |
| <i>Tachidus brevicornis</i> | | | | | | |
| onbepaald | | | 5738 | | | |
| totaal | | | 5231 | | | |
| <u>CYCLOPOIDA</u> | | | | | | |
| <i>Cyclopina littoralis</i> | | | | | | |
| totaal | | | 5224 | | | |
| <u>COPEPODES PARASITES</u> | | | | | | |
| <i>Caligus</i> sp. | | | 5240 | | | |
| <i>Corycaeus anglicus</i> | | | 5225 | | | |
| <i>Lerne</i> a sp. | | | | | | |
| <u>COPEPODA</u> | | | | | | |
| onbepaald | 5690 | | 5189 | | | |
| totaal | 5223 <i>300</i> | <i>120</i> | 5629 | <i>40</i> | | |

Kruisvaart : *Heineke*

Station : *Ostende pt 13*

datum : *5-4-78* uur : *12.00*

positie :

diepte : *-5m*

COPEPODA

aantal per m³

| COPEPODA | nauplii | copit. | adult | | |
|---------------------------------|------------------|----------------|--------|--|--|
| | | | totaal | | |
| <u>CALANOIDA</u> | | | | | |
| <i>Acartia clausi</i> | 5632 | 5104 <i>40</i> | 5098 | | |
| <i>Acartia discaudata</i> | | | 5105 | | |
| <i>Calanus halgolandicus</i> | | | 5124 | | |
| <i>Calanus finmarchicus</i> | 5654 | 5114 | 5120 | | |
| <i>Centropages hamatus</i> | 5665 | 5796 | 5866 | | |
| <i>Centropages typicus</i> | 5672 | 5136 | 5132 | | |
| <i>Isias clavipes</i> | | | 5174 | | |
| <i>Labidocera wollastoni</i> | | | 5175 | | |
| <i>Metrida lucens</i> | | | 5185 | | |
| <i>Oithona</i> sp. | | | 5299 | | |
| <i>Paracalanus parvus</i> | 5798 | 5194 | 5191 | | |
| <i>Parapontella brevicornis</i> | | | 5195 | | |
| <i>Pseudocalanus elongatus</i> | 5812 <i>100</i> | 5206 <i>80</i> | 5203 | | |
| <i>Temora longicornis</i> | 5846 <i>2120</i> | 5217 | 5214 | | |
| onbepaald | 5653 <i>120</i> | | 5189 | | |
| totaal | 5652 | | 5097 | | |
| <u>HARPACTICIDAE</u> | | | | | |
| <i>Alteuta</i> | | | | | |
| <i>Canuella perplexa</i> | | | | | |
| <i>Ectinosoma elongatum</i> | | | | | |
| <i>Euterpina acutifrons</i> | | | 5235 | | |
| <i>Longipedia minor</i> | | | | | |
| <i>Tachidus brevicornis</i> | | | | | |
| onbepaald | | | 5738 | | |
| totaal | | | 5231 | | |
| <u>CYCLOPOIDA</u> | | | | | |
| <i>Cyclopina littoralis</i> | | | | | |
| totaal | | | 5224 | | |
| <u>COPEPODES PARASITES</u> | | | | | |
| <i>Caligus</i> sp. | | | 5240 | | |
| <i>Corycaeus anglicus</i> | | | 5225 | | |
| <i>Lerne</i> sp. | | | | | |
| <u>COPEPODA</u> | | | | | |
| onbepaald | 5690 | | 5189 | | |
| totaal | 5223 <i>2340</i> | <i>120</i> | 5629 | | |