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P L A N K T O N - H A U L S

" P i e r " S c h e v e n i n g e n

6th October 1969 - 25th September 1970

by dr. joh.a. Muller

DATA SAMPLING OCTOBER 1969 at the "Pier" Scheveningen.
 I. "Pier" A, two hours before high water
 6th October 1969

- | | |
|---|--|
| I. Hauls | I. "Pier" A, Scheveningen |
| 1. Place of hauling | "Pier" Scheveningen. |
| 2. Situation | + 300 meter from the beach |
| 3. Weather forecast | Rather warm weather; mainly sunny periods and hardly any wind. |
| 4. Weather conditions, while hauling | Misty, sunshine. Sky with light clouds and blue. Sea calm. Colour greyish blue, light brown. Visibility not very good. |
| 5. Time of hauling | 9.36 - 9.48 by walking |
| 6. Distance, while hauling | + 144 meter by walking. |
| 7. Temperature | In the air $16\frac{1}{2}^{\circ}\text{C}$
In the water $13\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind | Semaphore
Force; South
Direction: $3\frac{1}{2}$ m/sec. |
| 9. Lighthouse a day | 11.18 a day |
| 10. Tides | 1st H.W. 11.57 |
| 11. Water Levels | a. when hauling + 15 cm
b. when H.W. (11.18) + 44 cm
c. when L.W. before hauling -62 cm. |
| 12. Direction of streams | Two hours before High water. |
| 13. Indication of streams at Scheveningen | Direction:
Force : |

14. Chemical analysis

Chloride	6.57 16.1	✓	6.57
Phosphate	1.2 1.1	✗	1.2
Nitrate	4.1 4	✗	14

QUANTITATIVE LISTS HAULS Scheveningen "Pier" 1969
October taken with the fine net.

I. Haul "Pier"A, Scheveningen	
6th October 1969	
1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	100
" mobiliensis	5100
" sinensis	424000
Chaetoceros sp.	1000
Coscinodiscus concinnus	97250
" excentricus	16600
" granii	13000
Eucampia sp.	250
Fragilaria sp.	100
Rhizosolenia sp.	500
2. P r o t o z o a	
Noctiluca miliaris	2350
3. C o e l e n t e r a t a	
Leuckartiara octona (0.25 mm.)	150
Phialidium hemisphericum	150
4. P o l y c h a e t a	
Polychaeta larva	100
Terebella "	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	1950
Calanus sp.	100
Centropages hamatus	300
Microcalanus pusillus	550
Temora longicornis	750
C i r r i p e d i a	
Cypris larva Cirripedia sp	450
Nauplius " " "	50
M y s i d a c e a	
Mesopodopsis slabberi	100
H a r p a c t i c o i d a	
Harpacticoida sp	550
" " with eggs	100
6. M o l l u s c a	
L a m e l l i b r a n c h i a t i	
Venus sp (0.2 mm.)	50
Mactra corallina (0.25mm)	50

DATA SAMPLING OCTOBER 1969 at the "Pier" Scheveningen
 II. "Pier" B, two hours after high water
 6th October 1969

I. Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	± 300 meter from the beach
3. Weather forecast	Rather warm weather; mainly sunny periods and hardly any wind.
4. Weather conditions, while hauling	Still misty, though few clouds and the clouds were light. Sunny. Colour of the sea blue, greyish at a distance. Nearly a little brownish. Sea somewhat more choppy than in the morning. Visibility not very good.
5. Time of hauling	13.37 - 13.49 by walking
6. Distance, while hauling	± 144 meter by walking
7. Temperature	In the air $22\frac{1}{2}^{\circ}\text{C}$ In the water $14\frac{1}{2}^{\circ}\text{C}$
8. Wind	Semaphore Force: 4 m/sec. Direction: South-West
9. Lighthouse a day	11.18 a day
10. Tides	1st H.W. 11.57
11. Water Levels	a. when hauling + 20 cm b. when H.W. (11.18) + 44 cm c. when L.W. before hauling - 62 c
12. Direction of streams	Two hours after High water
13. Indication of streams at Sch.	Direction: N Force: $0.4 \times 1.85 \text{ km.} = 0.74 \text{ km.}$
14. Chemical analyses	Chloride : 10.5 13.0 10.5 Phosphate: 1.3 0.9 1.3 Nitrate: 2 2 8

QUANTITATIVE LISTS HAULS Scheveningen, "Pier" 1969
 October taken with the fine net.

II. Haul "Pier" B, Scheveningen
 6th October 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia aurita	50
" mobiliensis	8300
" regia	300
" sinensis	37550
Chaetoceros sp	50
Coscinodiscus concinnus	2300
" excentricus	400
" granii	400
Eucampia zodiacus	50
Leptocylindricus danicus	500
Rhizosolenia sp.	150
2. P r o t o z o a	
Noctiluca miliaris	1250
3. C o e l e n t e r a t a	
Leuckartia octona (0.25mm)	100
Obelia sp.	50
Phialidium hemisphericum	300
4.	
C r u s t a c e a	
C o p e p o d a	
Acartia clausi	300
Centropages hamatus	50
Microcalanus pusillus	50
Nauplius larva Copepoda sp	400
A m p h i p o d a	
Amphipoda sp	50
H a r p a c t i c o i d a	
Harpacticoida sp	50
C i r r i p e d i a	
Cypris larva Cirripedia sp.	350 350
Nauplius " " "	400

DATA SAMPLING OCTOBER 1969 at the "Pier" Scheveningen.

III. # "Pier, A." two hours before high water

21th October 1969

III. Hauls	III. "Pier" A, Scheveningen.
1. Place of hauling	"Pier" Scheveningen
2. Situation	± 300 meter from the beach
3. Weather forecast	During the evening and night mist. In the afternoon of the 21st of October, it will be sunny in many places. Mostly dry weather. Wind light; about the same temperature.
4. Weather conditions while hauling	Misty. Visibility very poor, the foghorn was heard. Hardly any wind, sea calm. At the distance the water was greyish, blue, during the hauling the the water appeared to be dark brown. Some rain.
5. Time of hauling	9.40 - 9.52 by walking
6. Distance, while hauling	± 144 meter by walking
7. Temperature	In the air 14°C / 14°C In the water 13°C
8. Wind	Semaphore Force: 2 m/sec. Direction: S.E.
9. Lighthours a day	10.19 a day
10. Tides	1st H.W. 11.56
11. Water Levels	a. when hauling - 35 cm b. when H.W. (11.56) + 56 cm. c. when L.W. before hauling - 54 cm.
12. Direction of streams	Two hours before High water
13. Indication of streams at Scheveningen	Direction: South Force: 0.4 x 1.85 km. = 0.74 km.
14. Chemical analyses:	Chloride: 15.5 x 9.51 Phosphate: 1.2 x 5.1 Nitrate: 6 x 2

QUANTITATIVE LISTS HAULS Scheveningen "Pier" 1969
 October taken with the fine net.

III. Haul "Pier" A, Scheveningen
 21th October 1969.

1. B a c i l l a r i o p h y c e a e	
Biddulphia aurita	1500
" mobiliensis	19800
" regia	12150
" sinensis	152550
Cerataulina sp	750
Chaetoceros sp	300
Coscinodiscus concinnus	10500
" excentricus	2550
" granii	2850
Eucampia zoodiacus	3600
Fragilaris sp	750
Rhizosolenia sp	750
2. P r o t o z o a	
Noctiluca miliaris	1050
3. C o e l e n t e r a t a	
Leuckartiana octona	100
Phialidium sp	1050
4. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	250
Centropages hamatus	100
Microcalanus pusillus	100
Nauplius larva Co. sp	50
Temora longicornis	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	2100
Nauplius " " "	100
H a r p a c t i c o i d a	
Harpacticoida sp	950
5. P o l y c h a e t a	
Empty vase Terebella larva	50
6. N e m a t o d a	
Nematoda sp	150
7. S a l p i d a	
Oikopleura dioica	50
8. M o l l u s c a	
Mactra corallina (0.2mm)	50
9. E g g s	
E v e r t e b r a t a	
Gastropoda egg	50

DATA SAMPLING

OCTOBER 1969 at the "Pier"

IV. "Pier" A, two hours after high water Scheveningen.
21th October 1969

I. Hauls	IV. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	During the evening and night mist. In the afternoon of the 21st of October it will be sunny in many places. Mostly dry weather. Wind light; about the same temperature.
4. Weather conditions, while hauling	Misty. Visibility very poor. Hardly any wind, sky fully overcast. Some rain. Sea greyish; during hauling the water appeared to be less brownish than in the morning. Sea calm, some drops of rain.
5. Time of hauling	13.39 - 13.51 by walking
6. Distance, while hauling	+ 144 meter by walking
7. Temperature	In the air $20\frac{1}{2}^{\circ}\text{C}$ In the water 14°C
8. Wind	Semaphore Force: $2\frac{1}{2}$ m/sec Direction: E.S.E.
9. Lighthours a day	10.19 a day
10. Tides	1st H.W. 11.56
11. Water Levels	a. when hauling + 24 cm. b. when H.W. (11.56) + 60 cm c. when L.W. before hauling -54 cm.
12. Direction of streams	Two hours after High Water
13. Indication of streams at Scheveningen	Direction: North Force: 2 mile @ = $2 \times 1.85 = 3.70$ km.
14. Chemical analysis	Chloride: 13.7 15.6 13.1 Phosphate: 2.3 9.95 1.1 Nitrate: 6.2 6 6

QUANTITATIVE LISTS HAULS Scheveningen, "Pier" 1969
 October taken with the fine net.

IV. Haul "Pier" B, Scheveningen
 21th october 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia aurita	2400
" mobiliensis	14000
" regia	4000
" sinensis	57000
Cerataulina sp.	800
Chaetoceros sp.	300
Coscinodiscus concinnus	2300
" excentricus	750
" Granii	750
Eucampia zoodiacus	5500
Fragilaria sp.	50
Ditylum brightwelli	150
Skeletonema sp.	50
2. P r o t o z o a	
Noctiluca miliaris	1900
3. C o e l e n t e r a t a	
Leucartiana octona	1300
Phialidium sp	100
4. P o l y c h a e t a	
Polychaeta sp	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia clausi ^h	50
Centropages Hamatus	150
Microcalanus pusillus	100
Nauplius larva Cop. sp	100
C i r r i p e d i a	
Nauplius larva Cirripedia sp	50
H a r p a c t i c o i d a	
Harpacticoida sp	150
Harpacticoida sp with eggs	50
6. E g g s	
E v e r t e b r a t a	
Gastropoda egg	100

DATA SAMPLING NOVEMBER 1969 at the "Pier" Scheveningen

~~A.~~ "Pier", two hours before high water,
6th November 1969.

I. Haula	I. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	± 300 meter from the beach
3. Weather forecast	In the coastal provinces clearing of the sky. Night cold, in many places nightfrost. Wind light. On the 6th about the same temperature as on the 5th. During the day wind moderate between West and South.
4. Weather while hauling	Sky almost fully overcast, only a few light patches. No sun during hauling. Coldish weather and grim. Sea light grey with some brown stripes. Water when hauling darkish brown. Visibility rather good.
5. Time of hauling	10.16 - 10.28 by walking
6. Distance while hauling	± 144 meter by walking
7. Temperature	In the air 9°C In the water 6°C
8. Wind	Semaphore Direction: $\swarrow \searrow$ Force:
9. Tides	2nd H.W. 12.41
10. Lighthours a day	9.21 a day
11. Water Levels	a. when hauling -35 cm b. when H.W. (12.41) + 65 cm. c. when L.W. (8.21) - 70 cm
12. Direction of streams	Two hours before High water
13. Indication of streams at Scheveningen	Direction: Force:
14. Chemical analyses	Chloride: 15.9 × 6.13 Phosphate: 0.20 × 1.0 Nitrate: .21 × 0

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QUANTITATIVE LISTS Hauls Scheveningen "Pier"
November 1969

I. Haul "Pier" A, Scheveningen		
6th November 1969		
1. B A C I L L A R I O P H Y C E A E		
Biddulphia	mobiliensis	800
"	regia	1650
"	sinensis	6550
Coscinodiscus	concinus	1300
"	excentricus	800
"	granii	2550
Eucampia	zodiacus	50
Rhizosolenia	sp.	50
2. P r o t o z o a		
Teraminifera	sp.	300
Noctiluca	miliaris	150
Vase	Tintinnid sp.	50
3. C o e l e n t e r a t a		
Leuckartiara	octona	50
Phialidium	hemisphericum	400
4. P o l y c h a e t a		
Empty vase	Terebella larva	150
Polychaeta	sp.	100
5. C r u s t a c e a		
C o p e p o d a		
Acartia	clausi	300
Centropages	hamatus	100
C i r r i p e d i a		
Cypris larva	Cirripedia sp	300
Nauplius	" " "	50
A m p h i p o d a		
Gammarus	sp	50
H a r p a c t i c o i d a		
Harpacticoida	sp	400
6. M o l l u s c a		
Glycymeris	glycymeris (0.35 mm)	200
Mactra	corallina (0.2 mm)	850

DATA SAMPLING NOVEMBER 1969 at the "Pier" Scheveningen
III. "Pier", two hours after high water,
6th November 1969

II. Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	In the coastal provinces clearing of the sky. Night cold, in many places nightfrost. Wind light. On the 6th about the same temperature as on the 5th. During the day wind moderate between West and South.
4. Weather while hauling	Sky less overcast than in the morning, more light patches. Visibility rather good. Sea greyish light green. Water during hauling less brown than in the morning.
5. Time of hauling	14.12 - 14.24 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature	In the air 11°C In the water 8½°C
8. Wind	Semaphore Direction: Force+
9. Tides	2nd H.W. 12.41
10. Lighthours a day	9.21 a day
11. Water Levels	a. when hauling + 30 cm. b. when H.W. (12.41) + 65 cm c. when L.W. (8.21) - 70 cm
12. Direction of streams	two hours after High water
13. Indication of streams at Scheveningen	Direction: Force:
14. Chemical analyses	Chloride: 14,3 Y 10,6 Phosphore 0,30 Y 0,45 Nitrate: 3 Y 6

QUANTITATIVE LISTS Hauls Scheveningen "Pier"
November 1969

II. Haul "Pier"B Scheveningen
6th November 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	150
" aurita	50
" mobiliensis	2500
" sinensis	15650
Coscinidiscus concinnus	2500
" excentricus	3050
" granii	7950
" regia	2600
Ditylum brightwelli	50
2. P r o t o z o a	
Foraminifera sp.	50
Noctiluca miliaris	200
Tintinnid sp. vase	50
3. C o e l e n t e r a t a	
Phialidium hemisphericum	150
4. C o p e p o d a	
Acartia clausi	500
Calanus sp.	50
Centropages hamatus	50
Temora longicornis	50
E u p h a u s i d e a	
Euphausid sp	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	300
H a r p a c t i c o i d a	
Harpacticoida sp.	250
5. M o l l u s c a	
Glycymeris glycymeris (0.35mm)	200
Mactra corallina (0.2mm)	1300

DATA SAMPLING NOVEMBER 1969 at the "Pier" Scheveningen.

~~III.~~ "Pier", two hours before high water

20th November 1969

III. "Pier" A, Scheveningen

- | | |
|---|---|
| 1. Place of hauling | "Pier" Scheveningen |
| 2. Situation | + 300 meter from the beach |
| 3. Weather forecast | Clouds varying, a few showers.
Wind strong near the coast temporarily very strong and stormy, western. Temperature in the afternoon somewhat lower. |
| 4. Weather while hauling | Much blue in the sky. Clouds were driven by the wind. Visibility good Sunny, Sea very rough the net was taken up by the wind. The mighty elements were master. Sea brown. |
| 5. Time of hauling | 10.18 - 10.26 by walking |
| 6. Distance while hauling | + 144 meter by walking |
| 7. Temperature | In the air 10°C
In the water 6°C |
| 8. Wind | Semaphore
Direction: <i>WN.W</i>
Force: <i>15 1/2 m/sec</i> |
| 9. Tides | 1st H.W. 12.19 |
| 10. Light hours a day | 8.38 a day |
| 11. Water Levels | a. when hauling + 74 cm.
b. when H.W. (12.19) + 58 cm
c. when L.W. (8.08) + 14 c.,. |
| 12. Direction of streams | Two hours before High water |
| 13. Indication of streams at Scheveningen | Direction:
Force: |
| 14. Chemical analyses | Chloride: <i>14,5</i> × <i>2,40</i>
Phosphate: <i>6,5</i> × <i>1,1</i>
Nitrate: <i>5</i> × <i>13</i> |

QUANTITATIVE LISTS Hauls Scheveningen "Pier"
November 1969

III. Haul "Pier" A, Scheveningen
20th November 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	50
" mobiliensis	50
" regia	400
" sinensis	550
Coscinodiscus concinnus	250
" excentricus	250
" granii	300
2. P r o t o z o a	
Foraminifera sp	1700
3. C o e l e n t e r a t a	
Phialidium hemisphericum	50
4. P o l y c h a e t a	
Empty vase Terebella larva	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	500
Calanus finmarchicus	50
Centropages g hamatus	50
H a r p a c t i c o i d a	
Harpacticoida sp	500
" sp larvalstage	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	300
M o l l u s c a	
L a m o l l i b r a n c h i a t a	
Glycymeris glycymeris (0.35mm)	250
Mactra corallina (0.15mm)	250

DATA SAMPLING NOVEMBER 1969 at the "Pier" Scheveningen

IV. "Pier" ^B two hours after high water

20th November 1969

I. Hauls	IV. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Clouds varying, a few showers. Wind strong near the coast temporarily very strong and stormy, western. Temperature in the afternoon somewhat lower.
4. Weather while hauling	Still much blue in the sky, though there were more clouds. Sunny. Sea very rough. Sometimes splashing over the railing, the level was higher than in the morning. At a distance sea greyish green. Near by brown.
5. Time of hauling	14.02 - 14.14 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature	In the air 11°C In the water 6 $\frac{1}{4}$ °C
8. Wind	Semaphore Direction: <i>W</i> Force: <i>13 m/sec</i>
9. Tides	1st H.W. 12.19
10. Lighthours a day	8.38 a day
11. Water Levels	a. when hauling + 110 cm b. when H.W. (12.19) + 158 cm. c. when L.W. (8.08) + 14. cm.
12. Direction of streams	Two hours after High water
13. Indication of streams at Scheveningen	Direction: Force:
14. Chemical analyses	Chloride: <i>13,1</i> <i>✓</i> <i>13,20</i> Phosphore: <i>0,35</i> <i>✓</i> <i>0,25</i> Nitrate: <i>5</i> <i>✓</i> <i>5</i>

QUANTITATIVE LISTS Hauls Scheveningen "Pier"
November 1969

IV. Haul "Pier"B, Scheveningen
20th November 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	150
" mobiliensis	750
" regia	300
" sinensis	1050
Coscinodiscus concinnus	150
" excentricus	1800
" granii	1050
Fragillaria sp	300
2. P r o t o z o a	
Foraminifera sp	6300
3. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	50
Microcalanus pusillus	50
H a r p a c t i c o i d a	
Harpacticoida sp	650
C i r r i p e d i a	
Cypris larva Cirripedia sp	150
Nauplius " "	50
A m p h i p o d a	
Gammarus sp	100
4. M o l l u s c a	
G a s t r o p o d a	
Gastropoda sp	50
Lamellibranchiata	
Glycymeris glycymeris	600
Mactra corallina	700
Spisula sp	50

I. "Pier"A Scheveningen two hours before high water

Date: 5th December 1969

Hauls	I. "Pier"A, Scheveningen.
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	At most places, clearing of the sky. During the night and in the morning mostly light frost. In the afternoon temperature some degrees above freezing-point. Wind light to moderate, between North and North-Eastern. Near the coast occasionally strong.
4. Weather, while hauling	<i>cally</i> Blue in the sky. Dark and white clouds. Occasionally sunshine. Sea terrifically rough and brownish. The net was lost by the boisterous sea and the mass of detritus. I had to fetch another net. Hail, some times snow.
5. Time of hauling	Bottle 9.30. New net 11.08-11.15
6. Distance of hauling	+ 144 meter by walking
7. Temperature	Air 1 $\frac{1}{2}$ ^o C - first haul 5 ^o C - sec. haul Water 2 $\frac{1}{2}$ ^o C - first haul " 3 ^o C - sec. haul
8. Wind	Semaphore Direction: N.N.E. - E. Force: 4m/sec.
9. Water Levels	a. when hauling - 48 cm b. " H.tide (11.43) + 48cm c. " low tide before hauling -40cm
10. Tides	H.W. 11.43
11. Direction of streams	H.W.
12. Lighthours a day	7.69 a day
13. Direction of streams at Scheveningen	Direction: Force
14. Chemical analysis	Chloride 15.5 X 672 Phosphate 0.30 X 10 Nitrate 5 X 12

I. Haul "Pier" A Scheveningen

Date: 5th December 1969

1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	150
" mobiliensis	1650
" regia	6150
" sinensis	21150
Chaetoceros sp.	450
Coscinodiscus concinnus	9450
" excentricus	4050
" granii	7050
Fragilaria sp	1350
2. P r o t o z o a	
Foraminifera sp	100
Noctiluca miliaris	15150
3. C o e l e n t e r a t a	
Phialidium hemisphericum	100
Sarsia sp	50
4. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	2000
" tonsa	50
Calanus finmarchicus	50
Centropages hamatus	350
Microcalanus pusillus	750
H a r p a c t i c o i d a	
Larval stage of Harpacticoida sp	700
Harpacticoida sp	150
C i r r i p e d i a	
Cypris larva Cirripedia sp	200
M y s i d a c e a	
Mesopodopsis slabberi	50
5. M o l l u s c a	
L a m e l l i b r a n c h i a t a	
Mactra corallina (0.175 mm)	300

II. "Pier" B, Scheveningen, two hours after high water

Date: 5th December 1969

- /
- | | |
|--|---|
| Hauls | "Pier" B, Scheveningen |
| 1. Place of hauling | "Pier" Scheveningen |
| 2. Situation | + 300 meter from the beach |
| 3. Weather forecast | At most places, clearing of the sky. During the night and in the morning mostly light frost. In the afternoon temperature some degrees above freezing-point. Wind light to moderate, between North and North-Eastern. Near the coast occasionally strong. |
| 4. Weather while hauling | Blue in the sky, yet dark clouds at a distance. At the end of the haul it began to hail and to snow terribly. A dark bank was hanging above the horizon, making the sea almost sinister. The dark sea was less rough, though full of detritus. |
| 5. Time of hauling | 13.18 - 13.25 |
| 6. Distance of hauling | + ¹⁴⁴ meter by walking |
| 7. Temperature | Air 4½° C
Water 3½° C |
| 8. Wind | Semaphore
Direction: N.N.E. - E.
Force: 3½ m/sec. |
| 9. Water Levels | a. when hauling + 51 cm
b. when high tide (11.43) + 68 cm
c. when low tide before hauling
- 40 cm |
| 10. Tides | H.W. 11.43 |
| 11. Direction of streams | 2 hours after high water. |
| 12. | |
| 12. Lighthours a day | 7.69 a day |
| 13. Direction of streams at Scheveningen | Direction
Force |
| 14. Chemical analysis | Chloride 2,6 Y 13,4
Phosphate 0,30 Y 0,50
Nitrate 4 Y 6 |

II. Haul "Pier "B, Scheveningen

Date: 5th December 1969

II. Haul "Pier"B, Scheveningen.

1. B a c i l l a r i o p h y c e a e	
Biddulphia aurita	50
" mobiliensis	550
" regia	1900
" sinensis	5300
Coscinodiscus concinnus	2850
" excentricus	750
" granii	2350
Fragilaria sp.	600
2. P r o t o z o a	
Foraminifera sp	100
Noctiluca miliaris	1450
3. C o e l e n t e r a t a	
Phialidium hemisphericum	150
4. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	1600
Calanus finmarchicus	50
Centropages hamatus	500
Microcananus pusillus	50
H a r p a c t i c o i d a	
Larval stage of Harpacticoida sp	200
Harpacticoida sp	100
C i r r i p e d i a	
Cypris larva Cirripedia sp	400
A m p h i p o d a	
Gammarus sp.	100
M y s i d a c e a	
Mesopodopsis slobberi	150
5. M o l l u s c a	
Glycymeris glycymeris	50
Mactra corallina (0.175mm)	350

I. "Pier"A, two hours before high water

Date: 5th January 1970

Hauls	I. "Pier"A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach. Occasionally snowshowers, but sometimes clearing of the sky. Wind moderate to strong, Western getting Northwestern. Slight thaw to temperature around freezing-point Hazy.
4. Weather conditions, while hauling	Grey sky, fully overcast. Visibility very poor, only locally some light-patches. Sea greyish, calm. Near the place of hauling light brownish.
5. Time of hauling	10.23 - 10.35 by walking
6. Distance of hauling	+ 144 meter by walking
7. Temperature	In the air $+ \frac{1}{2}^{\circ}\text{C}$ In the water -2°C
8. Wind	Semaphore Direction S.W. Force 2m/sec
9. Lighthouses a day	7.54 a day
10. Tides	H.W. 12.42
11. Water Levels	when hauling: -5cm when J.W. between the hauls +95cm when L.W. before the hauls -63 cm
12. Direction of streams	Two hours before H.W.

13. Direction of streams at Scheveningen.	Direction: Force
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14. Chemical analysis	Chloride 16,1 < 4,6g
	Phosphate 0,10 x 0,30
	Nitrate 4 x 7

I. Haul "Pier" A, Scheveningen

Date: 5th January 1970

Haul I "Pier" A Scheveningen.

1. B a c i l l a r i o p h y c e a e	
Biddulphia mobiliensis	300
" regia	8000
" sinensis	6900
Discinodiscus concinnus	10900
" excentricus	2100
" granii	2100
Chaetoceros sp	100
2. P r o t o z o a	
Foraminifera sp.	200
Noctiluca sp.	300
3. P o l y c h a e t a	
Empty vase Terebella larva	50
4. C r u s t a c e a	
C i r r i p e d i a	
Cypris larva Cirripedia sp.	200
Nauplius " " "	100
C o p e p o d a	
Acartia sp	350
Microcalanus pusillus	100
H a r p a c t i c o i d a	
Harpacticoida sp.	1150
C u m a c e a	
Cumacea sp.	50
5. M o l l u s c a	
L a m e l l i b r a n c h i a t a	
Glycymeris glycymeris (0.25mm)	100
Mactra corallina (p.2mm)	150
Modiolus modiolus (0.2mm)	
6. E g g s	
E v e r t e b r t a t a	
Evertibrata sp	150

SAMPLING DATA JANUARY 1970

II. "Pier" B, two hours after high water

Date: 5th January 1970

Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Occasionally snowshowers but some - times clearing of the sky. Wind - moderate to strong, Western getting Northwestern. Slight thaw to tempera- ture around freezing-point. Hazy.
4. Weather conditions, while Hauling	Mist lifted. Cloudy yet here and there blue patches. Sun vaguely coming through. At a distance sea greyish, blue. Near the place of hauling light brownish.
5. Time of hauling	14.23 - 14.35 by walking
6. Distance of hauling	+ 144 meter by walking
7. Temperature	In the air + 3°C In the water -1°C
8. Wind	Semaphore Direction W.N.W. Force 3½m/sec
9. Lighthours a day	7.54 a day
10. Tides	1st H.W. 12.42
11. Water Levels	when hauling: + 65 cm when H.W. between the hauls + 95 cm when L.W. before the hauls -63 cm
12. Direction of streams	two hours after H.W.

13. Direction of streams at
Scheveningen

Direction:

Force

14. Chemical analysis

Chloride	16,0	Y	14,2
Phosphate	0,15	Y	0,10
Nitrate	4	Y	4

II. Haul "Pier" B, Scheveningen

Date: 5th January 1970

Haul II "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia mobiliensis	200
" regia	9450
" sinensis	8350
Coscinodiscus concinnus	11100
" excentricus	4000
" granii	5450
Fragilaria sp	100
Rhizosolenia sp.	850
2. P r o t o z o a	
Noctiluca sp.	2650
3. C o e l e n t e r a t a	
Phialidium hemisphericum	50
4. N e m a t o d a	
Nematoda sp	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	1900
Centropages sp	1200
Microcalanus pusillus	250
H a r p a c t i c o i d a	
Larval stage of Harpacticoida sp	950
6. M o l l u s c a	
Mactra corallina (0.2mm)	50
7. E g g s	
E v e r t e b r a t a	
Evertebrata sp.	50

III. "Pier"A, two hours before high water

Date: 19th January 1970

<p>Hauls</p> <p>1. Place of hauling</p> <p>2. Situation</p> <p>3. Weather forecast</p> <p>4. Weather conditions, while hauling</p> <p>5. Time of hauling</p> <p>6. Distance of hauling</p> <p>7. Temperature</p> <p>8. Wind</p> <p>9. Lighthours a day</p> <p>10. Tides</p> <p>11. Water Levels</p> <p>12. Direction of streams</p>	<p>III. "Pier"A, Scheveningen</p> <p>"Pier" Scheveningen</p> <p>+ 300 meter from the beach</p> <p>Heavily clouded. Only locally snow and later on locally clearing of the sky. Wind mostly Eastern. During the night, light frost and in the North-Eastern parts of the country locally moderate frost.</p> <p>During the day, light frost. Sky fully overcast. Vaguely the sun could be seen. Poor visibility Sea greyish; at the place of hauling light brown cold sharp. Sea calm and clear. Wind cold and sharp.</p> <p>11.12 - 11.24 by walking</p> <p>+ 144 meter by walking</p> <p>In the air -1°C In the water $\frac{1}{2}^{\circ}\text{C}$</p> <p>Semaphore Direction: E.S.E. Force: $4\frac{1}{2}$ m/sec.</p> <p>8.26 a day</p> <p>1st H.W. 13.13</p> <p>when hauling: +15 cm when H.W. between the hauls +100cm when L.W. before the hauls -92 cm.</p> <p>Two hours before H.W.</p>
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<p>13. Direction of streams at Scheveningen</p>	<table border="0"> <tr> <td style="padding-right: 20px;">Direction</td> <td style="padding-right: 20px;">Force</td> </tr> </table>	Direction	Force
Direction	Force		

14. Chemical analysis

Chloride	16	X	7.90
Phosphate	0.10	X	0.85
Nitrate	6	X	6

III. Haul "Pier" A Scheveningen

Date: 19th January 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia mobiliensis	150
" regia	5000
" sinensis	5050
Coscinodiscus concinnus	5800
" excentricus	2900
" granii	2800
Fragilaria sp	300
Leptocylindricus danicus	150
Rhizosolenia sp	300
2. P r o t o z o a	
Noctiluca sp	1750
3. C o e l e n t e r a t a	
Sardia tubulosa	50
Phialidium hemisphericum	150
4. C h a e t o g n a t a	
Sagitta sp	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	3100
Anomalocera patersoni	50
Centropages sp	3100
Microcalanus pusillus	850
Temora longicornis	450
H a r p a c t i c o i d a	
Harpacticoida sp.	300
6. E g g s	
F i s h	
Pleuronectus platessa ($\leq 0.15\text{mm}$)	150

IV. "Pier" B, two hours after high water

Date: 19th January 1970

IV. "Pier" B Scheveningen

- | | |
|-------------------------------------|---|
| 1. Place of hauling | "Pier" Scheveningen |
| 2. Situation | ± 300 meter from the beach |
| 3. Weather forecast | Heavily clouded. Only locally snow and later on locally clearing of the sky. Wind mostly Eastern. During the night slight frost and in the North-Eastern parts of the country locally moderate frost. |
| 4. Weather conditions while hauling | During the daylight frost very misty. At first vaguely some sun. Later on no sunshine at all. Visibility poor. Wind less sharp than in the morning. Sea greyish, at the place of hauling light brown and clear. |
| 5. Time of hauling | 15.10 - 15.22 by walking |
| 6. Distance of hauling | + 144 meter by walking |
| 7. Temperature | In the air 1° C
In the water 1° C |
| 8. Wind | Semaphore
Direction: E.S.E. Force 4m/sec |
| 9. Lighthours a day | 8.26 a day |
| 10. Tides | 1st H.W. 13.13 |
| 11. Water Levels | when hauling + 268 cm
when H.W. between the hauls + 100cm
when L.W. before the hauls - 92cm |
| 12. Direction of streams | two hours after H.W. |

13. Direction of streams at Scheveningen

Direction Force

14. Chemical analysis

Chloride	16,5	Y	13,8
Phosphate	0,10	Y	0,25
Nitrate	3	Y	4

IV. Haul "Pier" B Scheveningen

Date: 19th January 1970

IV. Haul "Pier" B Scheveningen.

1. B a c i l l a r i p p h y c e a e	
Biddulphia mobiliensis	50
" regia	1150
" sinensis	750
Chaetoceros sp.	50
Coscinodiscus concinnus	350
" excentricus	350
" granii	650
Leptocylindricus danicus	50
2. P r o t o z o a	
Noctiluca sp	50
3. C o e l e n t e r a t a	
Phialidium hemisphericum	50
4. C h a e t o g n a r h a	
Sagitta sp	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp	3000
Centropages sp	2900
Microcalanus kpusillus	250
Nauplius larva Copepoda sp	50
Temora longicornis	50
H a r p a c t i c o i d a	
Harpacticoida sp	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	50
6. E g g s	
E v e r t e b r a t a	
Littorina neritoides	50

I. "Pier"A, Scheveningen

Date: 3rd February 1970

Hauls	I. "Pier"A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Continuing than temporarily rain, later on clearing of the sky. Wind moderate to strong between Southern and Western.
4. Weather, while hauling	Blue sky, only a few light clouds. Terribly stormy. I was blown over the street and had to work in a sheltered place. No proper hauling could be done. Every time, when the top of the wave had passed I dipped my net into the water. Visibility rather good. Sea very rough, greyish brown.
5. Time of hauling	10.1 5 ³ - 10.20 by dipping
6. Distance of hauling	+ 144 meter by walking
7. Temperature during hauling	In the air 5 $\frac{1}{2}$ ⁰ C In the water 1 ⁰ C
8. Wind	Semaphore Direction: W. Force 16 $\frac{1}{2}$ m/sec
9. Lighthours a day	9.13 a day
10. Tides	1st H.W. 12.20
11. Water Levels	a. when hauling + 104 cm b. when H.W. between the hauls +164 cm c. when L.W. before hauling + 8 cm
12. Direction of streams	Two hours before H.W.

13. Indication of streams near Scheveningen	Direction Force:
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14. Chemical analysis

Chloride	14100 mg/l	6670 mg/l
Phosphate	0.20 "	0.90 "
Nitrate	3 "	13 "

SAMPLING DATA

FEBRUARY 1970.

I. Haul "Pier" A Scheveningen, taken with the fine net

Date: 3rd February 1970

I. Haul "Pier" A, Scheveningen	
1. B a c i l l a r i o p h y c e a e	
Biddulphia alternans	50
" sinensis	500
Coscinodiscus concinnus	3050
" excentricus	900
" granii	3050
2. P r o t o z o a	
Foraminifera sp.	500
Noctiluca sp.	2050
3. C h a e t o g n a t h a	
Sagitta sp.	100
4. C r u s t a c e a	
C i r r i p e d i a	
Cypris larva Cirripedia sp.	300
C o p e p o d a	
Acartia sp.	150
Anomalocera sp	100
Microcalanus pusillus	50
Temora longicornis	50
H a r p a c t i c o i d a	
Harpacticoida sp	200
5. M o l l u s c a	
Glycymeris glycymeris	250
Mactra corallina	350

It was terrific stormy and I only could dip my net into the sea between two waves coming.

II. "Pier" B, two hours after high water

Date: 3rd February 1970

Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Continuing than temporarily rain, later on clearing of the sky. Wind moderate to strong between Southern and Western.
4. Weather, while hauling	Weather about the same as in the morning. Sea even more rough than in the morning. Between the tops of the waves hauling was done. Colour sea greyish-brown. In the sky a few more clouds, though most part of the sky still was blue. Visibility rather good.
5. Time of hauling	14.12 - 14.24 by dipping with short intervals
6. Distance of hauling	+ 144 meter by walking
7. Temperature during hauling	In the air 7°C In the water 2°C
8. Wind	Semaphore Direction: W.S.W. Force 13m/sec
9. Lighthours a day	9.13 a day
10. Tides	1st H.W. 12.20
11. Water Levels	a. when hauling: + 116 cm b. when H.W. between the hauls + 164c: c. when L.W. before hauling + 8cm
12. Direction of streams	Two hours after H.W.

13. Indication of streams
near ScheveningenDirection:
Force:

14. Chemical analysis

Chloride	14100 mg/l	14800 mg/l
Phosphate	0,20 "	0,30 "
Nitrate	3 "	3 "

II. Haul "Pier" B, taken with the fine net

Date: 3rd February 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia mobiliensis	150
" sinensis	1350
Coscinodiscus concinnus	10500
" excentricus	2100
" granii	11550
Fragilaria sp	450
Leptocylindricus danicus	150
2. P r o t o z o a	
Noctiluca sp.	8250
3. P o l y c h a e t a	
Polychaeta larva	50
" sp.	50
4. C h a e t o g n a t h a	
Sagitta sp	100
5. C r u s t a c e a	
C i r r i p e d i a	
Cypris larva Cirripedia sp	300
C o p e p o d a	
Acartia sp	1600
Centropages sp.	400
Microcalanus pusillus	50
Temora longicornis	150
H a r p a c t i c o i d a	
Harpacticoida sp	400
6. M o l l u s c a	
xxx Mactra corallina (0.15 mm)	50

It was terrific^{ly} stormy and I only dip my net into the sea between two waves coming

III. "Pier" A, two hours before high water
 Date: 16th February 1970

Hauls	III. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Generally very cloudy, especially near the coast. Snow showers. Wind mostly light. During the night moderate frost. In the afternoon some degrees above freezing-point.
4. Weather, while hauling	Very bad weather; driving snow. Sky greyish-black. Sea choppy and dark-brown greyish. Sharp wind.
5. Time of hauling	10.07 - 10.18 by walking
6. Distance of hauling	+ 144 meter by walking
7. Temperature during hauling	In the air - 1°C In the water - 2°C
8. Wind	Semaphore Direction: N.W. Force: 8m/sec.
9. Lighthouse a day	10.01 a day
10. Tides	1st H.W. 11.43
11. Water Levels	a. when hauling: + 90cm b. when H.W. between the hauls +112 c. when L.W. before hauling -34 cm
12. Direction of streams	Two hours before H.W.

13. Indication of streams near Scheveningen	Direction: Force:
---	----------------------

14. Chemical analysis

Chloride	g 4.25	mg/l	H 15.24	mg/l
Phosphate	0.20	"	0.35	"
Nitrate	7	"	13	"

III. Haul "Pier" A, Scheveningen taken with the fine nets.

Date: 16th February 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e		
Biddulphia aurita		150
" mobiliensis		50
" regia		150
" sinensis		750
Cerataulina sp.		50
Coscinodiscus concinnus		1050
" excentricus		300
" granii		1150
Fragilaria sp.		100
Rhizosolenia sp		100
2. P r o t o z o a		
Foraminifera sp.		650
Noctiluca miliaris		900
3. P o l y c h a e t a		
Polychaeta larva		150
Post-larval stage		50
Terebella sp.		
4. C r u s t a c e a		
C i r r i p e d e a		
Cypris larva Cirripedia sp.		650
C o p e p o d a		
Acartia sp		350
Centropages sp.		150
Microcalanus pusillus		50
Nauplius larva Cop sp		50
H a r p a c t i c o i d a		
Harpacticoida sp.		350
5. M o l l u s c a		
L a m e l l i b r a n c h i a t a		50
Gardium sp		
Glycymeris		50
glycymeris (0.4mm)	<i>Ma. tra corallina</i>	900
G a s t r o p o d a		
Young gastropoda sp.	(0.3 mm)	50
6. E c h i n o d e r m a t a		
Bipinnaria larva		50
7. E g g s		
X E v e r t e b r a t a		
Litterina meritoides		50

There was driving snow and the weather was inhospitable. The hauling was poor.

IV. "Pier" B, two hours after high water

Date: 16th February 1970

- | | |
|--|--|
| <p>Hauls</p> <ol style="list-style-type: none"> 1. Place of hauling 2. Situation 3. Weather forecast 4. Weather, while hauling 5. Time of hauling 6. Distance of hauling 7. Temperature during hauling 8. Wind 9. Lighthours a day 10. Tides 11. Water Levels 12. Direction of streams | <p>IV. "Pier" B Scheveningen .</p> <p>"Pier" Scheveningen</p> <p>+ 300 meter from the beach</p> <p>Generally very cloudy, especially near the coast snowshowers. Wind mostly light. During the night moderate frost. In the afternoon some degrees above freezing-point.</p> <p>Dark sky with some light spots. Temperature higher, but the snow was very slippery and by this I made a very bad fall, as during hauling the net was taken away by the waves. Wind sharp. Sea all colours from blackish to green-brown, rough.</p> <p>14.05 - 14.15 by walking</p> <p>+ 144 meter by walking.</p> <p>In the air 4°C
In the water 0°C</p> <p>Semaphore
Direction: N.N.W. Force: 8m/sec.</p>
<p>a. when hauling: + 78 cm
b. when H.W. between the hauls +112
c. when L.W. before hauling -34 cm⁴</p> <p>two hours after H.W.</p> |
|--|--|

13. Indication of streams near Scheveningen

Direction:
Force:

14. Chemical analysis

Chloride
Phosphate
Nitrate

H

10200	mg/l	5500	mg/l
0,20	"	0,30	"
8	"	10	"

IV. Haul "Pier" B, Scheveningen, taken with the fine nets

Date: 16th February 1970.

IV.

Hauls "Pier" B, Scheveningen.

1. B a c i l l a r i o p h y c e a e	
Biddulphia regia	50
" sinensis	50
Coscinodiscus concinnus	250
" excentricus	250
" granii	650
Rhizosolenia sp.	50
2. P r o t o z o a	
Foraminifera sp.	100
Noctiluca miliaris	800
3. N e m a t o d a	
Nematoda sp.	50
4. C r u s t a c e a	
C o p e p o d a	
Acartia sp	250
Nauplius larva Cop sp	100
C i r r i p e d i a	
Cypris Larva Cirripedia sp.	100
H a r p a c t i c o i d a	
Harpacticoida sp	100
5. M o l l u s c a	
L a m e l l i b r a n c h i a t i	
Mactra corallina	350
G a s t r o p o d a	
Lamellaria sp?	50
6. E g g s	
Evertabrata egg	50

The weather was still bad. Snow had fallen and it was slippery. At the end of the haul I had a very bad fall, but the container remained full of water, the sea, however, gave very little.

I. "Pier"A, Scheveningen two hours before high water

Date: 4th March 1970

Hauls	I. "Pier"A, Scheveningen,
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Clearing of the sky; some snow- and hailshowers. During the night locally mist. Wind light to moderate Western.
4. Weather fonditions, while hauling	Blue whitish sky. During hauling dark clouds appeared with a short hail-shower. After this again clearing of the sky. Weather cold at the Pier and very slippery; nobody about. Sea grey-blue. The weather rather rough. Sea high, high waves at times. Visibility rather misty.
5. Time of hauling	10.12 - 10.22 by walking.
6. Distance while hauling	+ 144 meter by walking
7. Temperature during hauling	In the air 2°C In the water -1°C
8. Wind	Semaphore Direction: S.S.E. Force: 4½m/sec.
9. Lighthours a day	11.04 a day
10. Tides	1st H.W. 12-18.
11. Water-Levels	a. when hauling; + 32 cm b. when H.W. between the hauls c. when L.W. before hauling ^{+96 cm} -64cm
12. Direction of streams	Two hours before H.W.

13. Indications of streams
at ScheveningenDirection:
Force:

14. Chemical analysis

Chloride	13600 mg/l	696 mg/l
Phosphate	0,30 "	0,40 "
Nitrate	6 "	14 "

4

SAMPLING DATA
"Pier" A, Scheveningen
Date: 4th March 1970

MARCH 1970

I. Haul "Pier" AScheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarocho malleus	100
Biddulphia aurita	650
" regia	150
" sinensis	350
Chaetoceros sp.	100
Coscinodiscus concinnus	150
" excentricus	350
" granii	800
Rhizosolenia gr.	100
2. P r o t o z o a	
Noctiluca miliaris	50
Foraminifera sp	550
3. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	150
Acartia with eggs	50
Microcalanus cusillus	100
Cypris larva Cop.sp	100
C i r r i p e d i a	
Cypris larva Cirripedia sp	200
C u m a c e a	
Cumacea sp	50
4. M o l l u s c a	
Glycymeris glycymeris(0.5mm)	100
Mactra corallina (0.2mm)	50
5. E g g s	
Evertebrata	
Evertebrate egg.	50

II. "Pier" B, Scheveningen, two hours after high water

Date: 4th March 1970

II. "Pier" B, Scheveningen

- | | |
|-------------------------------------|--|
| 1. Place of hauling | "Pier" Scheveningen |
| 2. Situation | + 300 meter from the beach |
| 3. Weather forecast | Clearing of the sky; some snow- and hail showers. During the night locally mist. Wind light to moderate Western. |
| 4. Weather conditions while hauling | Sky overcast with some sunshine. Misty. Wind less sharp than in the morning. Sea calm, grey-blue. Visibility poor. Still cold. |
| 5. Time of hauling | 14.10-14.22 by walking |
| 6. Distance, while hauling | + 144 meter by walking |
| 7. Temperature during hauling | In the air 4°C
In the water 0°C |
| 8. Wind | Semaphore
Direction: S.E. Force: 6m/sec |
| 9. Lighthours a day | 11.04 a day |
| 10. Tides | 1st H.W. 12.18 |
| 11. Water-Levels | a. when hauling: + 50cm
b. when H.W. between the hauls:
c. when L.W. before hauling: +96cm -64cm |
| 12. Direction of streams | Two hours after H.W. |

- | | |
|--|----------------------|
| 13. Indications of streams at Scheveningen | Direction:
Force: |
|--|----------------------|

14. Chemical analysis

Chloride
Phosphate
Nitrate

12900 mg/l
0,25 "
4 "

5-5-10
496 mg/l
0,25 "
14 "

II. "Pier" B, Scheveningen

Date: 4th March 1970

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II. Haul "Pier" B,

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	350
Biddulphia aurita	6000
" mobiliensis	50
" regia	400
" sinensis	1050
Chaetoceros sp.	3450
Cerataulina sp.	50
Coscinodiscus concinnus	500
" excentricus	300
" granii	850
Ditylum brightwelli	50
Fragilaria	200
Lauderia sp.	100
Rhizosolenia sp.	50
Skeletonema costatum	200
2. P r o t o z o a	
Bolinopsis	300
Noctiluca xpmiliaris	250
3. C t e n o p h o r a	
Bolinopsis sp	300
4. P o l y c h a e t a	
Empty vase Terebella larva	50
Polychaeta sp	150
5. N e m a t o d a	
Nematoda sp	100
6. C r u s t a c e a	
C o p e p o d a	
Acartia clausi	500
Centropage hamatus	50
Microcalanus pusillus	150
Nauplius larva Cop sp	100
C l a d o c e r a	
Evdadna sp	150
7. M o l l u s c a	
Mactra corallina (0.18 mm)	300
8. E c h i n o d e r m a t a	
Bipinnaria larva	150

III. "Pier" A, Scheveningen, two hours before high water

Date: 17th March 1970

Hauls	III. "Pier" A Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Generally cloudy and temporarily rain. Strong wind, almost getting stormy. Western-Southwestern. Temperature higher than on the 16th of March.
4. Weather conditions while hauling	Sky fully overcast. Sea greyish-brown, near the place of hauling light-brown and transparent. Visibility poor.
5. Time of hauling	9.30 - 9.40 by walking
6. Distance, while hauling	+ 144 meter by walking
7. Temperature, during hauling	In the air 6½°C In the water 1°C
8. Wind	Semaphore Direction: S.W. Force: 9m/sec.
9. Lighthours a day	11.56 a day
10. Tides	1st H.W. 11.16
11. Water-Levels	a. when hauling: + 51 cm b. when H.W. between the hauls: c. when L.W. before hauling ^{+80 cm} -76cm
12. Directions of streams	Two hours before H.W.
13. Indications of streams at	

13. Indications of streams at Scheveningen	Direction Force
--	--------------------

14. Chemical analysis	Chloride 13900 mg/l	3835 mg/l
	Phosphate 0.005	0.65
	Nitrate 4 (cm) "	14
	" "	

H

"Pier" A, Scheveningen

Date: 17th March 1970

III. Haul "Pier" A, Scheveningen

1. B a c i a l l a r i o p h y c e a e	
Bellarocha malleus	4000
Biddulphia sp	1335500
" alternans	750
" sinensis	1500
Chaetoceros sp	25750
Coscinodiscus concinnus	1750
" excentricus	500
" granii	1250
Eucampia sp	500
Fragilaria sp	2250
Laurelia sp	49250
Rhizosolenia sp	1000
2. P r o t o z o a	
Foraminifera sp	500
3. C r u s t a c e a	
C o p e p o d a	
Acartia sp	2150
Centropages hamatus	250
Microcalanus pusillus	250
C y c l o p o i d a	
Cyclopoida sp	200
H a r p a c t i c o i d a	
Harpacticoida sp	50
4. M o l l u s c a	
L a m e l l i b r a n c h i a t i	
Mactra corallina	100
(0.2mm - 0,3mm)	
5. E c h i n o d e r m a t a	
Bipinnaria larva	450
6. E c t o p r o c t a	
Cyphonautes larva	50
Membranipora	
membranacea	
7. E g g s	
Fish	50
8. C o e l e n t e r a t a	
Arachnactis Larva	450
of Cerianthus	

IV. "Pier" B, Scheveningen, two hours after high water

Date: 17th March 1970

Hauls	IV. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather condition forecast	Generally cloudy and temporarily rain. Strong wind, almost getting stormy Western-Southwestern. Temperature higher than on the 16th of March
4. Weather conditions, while hauling	Sky overcast. Sea greyish brown and choppy. Rain, with hail and snow. Wind coldish, strong. Visibility poor.
5. Time of hauling	13.08 - 13.20 by walking
6. Distance, while hauling	+ 144 meter by walking
7. Temperature, during hauling	In the air 6½°C In the water 1½°C
8. Wind	Semaphore Direction: S.W. Force: 11m/sec
9. Lighthours a day	11.56 a day
10. Tides	1st H.W. 11.16
11. Water-Levels	a. when hauling: + 28 cm b. when H.W. between the hauls c. when L.W. before hauling + 80cm - 76cm
12. Direction of streams	Two hours after H.W.

13. Indications of streams at Scheveningen	Direction Force
--	--------------------

14. Chemical analysis

Chloride	13500 mg/l	H
Phosphate	0,40 "	2555 mg/l
Nitrate	4 "	0,15 "
	1	14

IV. "Pier" B, Scheveningen

Date: 17th March 1970.

IV. "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	8000
Biddulphia sp.	1847200
" regia	1600
" rhombus	2800
" sinensis	4000
Chaetoceros sp	3920
Coscinodiscus concinnus	3200
" excentricus	2800
" granii	2000
Lauderia sp	62000
Melosera borreri	800
Rhizosolenia sp	800
Phaeodeystis present	
Thalassiosira sp	8000
2. P r o t o z o a	
Noctiluca miliaris	400
3. P o l y c h a e t a	
Polychaeta larva	50
4. C r u s t a c e a	
C o p e p o d a	
Acartia sp	950
Centropages hamatus	250
Microcalanus pusillus	100
5. M o l l u s c a	
L a m e l l i b r a n c h i a t i l	
Dòsina sp (0.135mm)	50
6. E c h i n o d e r m a t a	
Bipinnaria larva	350
7. C o e l e n t e r a t a	
Archnactis larva	550
of Cerianthus	

I. "Pier" A, Scheveningen twohours before high water
 Date: 2nd April 1970

Hauls	I. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Occasionally showers, but also clearing of the sky. Wind moderate to strong. North-Western. Continually cold weather.
4. Weather conditions, while hauling	At the beginning a dark sky with some blue patches. At the distance sea greyish-brown, when hauling the sea was brown, pretty rough. There was a hail snow shower; later on the sun came through for a shorter while. The wind was very cold. A great quantity of detritus etc. was found in the container.
5. Time of hauling	10.08 - 10.18 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature during hauling	In the air 4°C In the water 3°C
8. Wind	Semaphore Direction: W.N.W. Force 11m/sec
9. Lighthours a day	13.01 hours a day
10. Tides	1st H.W. 12.08
11. Water-Levels	a. when hauling: + 29 cm b. when H.W. between the hauls c. when L.W. before hauling ⁺¹¹⁰ -64 cm.
12. Direction of streams	2 hours before H.W.

13. Direction of streams at Scheveningen	Direction Force
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14. Chemical analysis	Chloride	13600 mg/l	H	1534 mg/l
	Phosphate	0,10 "		0,45 "
	Nitrate	3 "		7 "

I. "Pier" A, Scheveningen

Date: 2nd April 1970

I. Haul "Pier" A,

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	2750 500
Biddulphia sp	25940
" aurita	700
" regia	700
" rhombus	1700
" sinensis	1300
Chaetoceros sp	1500
Coscinodiscus concinnus	900
" excentricus	500
" granii	1200
Ditylum brightwelli	100
Eucampia sp	200
Fragilaria sp	1200
Lauderia sp	700
2. P r o t o z o a	
Foraminifera sp	300
Noctiluca miliaris	600
3. C o e l e n t e r a t a	
Arachmactis larva of Cerianthis	200
Ratkea octopunctata	50
4. C t e n o p h o r a	
Pleurobrachia pileus	50
5. P o l y c h a e t a	
Polychaeta sp	100
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	1700
Acartia sp with eggs	200
Contropages sp	450
Microcalanus pusillus	550
Metanauplius larva Cop.sp	200
Nauplius larva Cop.sp	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	200
C y c l o p o i d a	
Cyclopoida sp	50
7. M o l l u s c a	
Mactra corallina(0.15mm-0,3mm)	200
Spisula solida (0.2mm)	50
8. E c t o p r o c t a	
Larva Oikopleura dioica in house	100
9. E c h i n o d e r m a t a	
Bipinnaria larva	300
10. E g g s	
Evertebrata sp	250
F i s h	
Fish sp	50
Gadus merlangus	150

II. "Pier" B, Scheveningen, two hours after high water
Date: 2nd April 1970

Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Occasionally showers, but also clearing of the sky. Wind moderate to strong. North-Western. Continually cold weather.
4. Weather conditions, while hauling	Much more blue in the sky than in the morning. Still clouds. Visibility good. Wind sharp and strong. Sea brownish and choppy.
5. Time of hauling	14.12 - 14.22 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature during hauling	In the air 8°C In the water 4°C
8. Wind	Semaphore Direction: N.W. Force 11m/sec.
9. Lighthours a day	13.01 a day
10. Tides	1st H.W. 12.08
11. Water-Levels	a. when hauling: + 66 cm b. when H.W. between the hauls +110cm c. when L.W. before hauling -64 cm
12. Direction of streams	2 hours after H.W.

13. Direction of streams at Scheveningen	Direction Force
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14. Chemical analysis

Chloride	14800 mg/l	5176 mg/l
Phosphate	0.05 "	0.45 "
Nitrate	3 "	5 "

II. Haul "Pier" B, Scheveningen

Date: 2nd April 1970.

II. Haul "Pier" B.

1. B a c i l l a r i o p h y c e a e	
Bellaroche malleus	2750
Biddulphia sp	955250
" alternans	500
" mobiliensis	1500
" rhombus	250
" sinensis	1750
Cerataulina bergonii	250
Chaetoceros sp	21250
Coscinodiscus concinnus	1250
" excentricus	2000
" granii	3500
Ditylum brightwelli	1250
Eucampia zoodiacus	500
Fragilaria sp	2750
Lauderia sp	2000
Phaedocystis present	
2. P r o t o z o a	
Noctiluca miliaris	1500
Foraminifera sp	2000
3. C o e l e n t e r a t a	
Arachnactis larva	1500
of Cerianthus	
4. P o l y c h a e t a	
Polychaeta sp	50
5. N e m a t o d a	
Nematoda sp	50
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	450
Acartia sp with eggs	150
Anomalocera patersoni	50
Centropages sp	650
Microcalanus pusillus	150
Nauplius larva Cop.sp	200
C i r r i p e d i a	
Cypris larva Cirripedia sp	150
Nauplius " " "	300
H a r p a c t i c o i d a	
Harpacticoida sp	50
C y c l o p o i d a	
Cyclopoida sp	50
D e c a p o d a	
Larva Crangon vulgaris	50
7. M o l l u s c a	
Mactra corallina (0.2mm-0,3mm)	350
Mytilus edulis (0.4mm)	50
8. E c h i n o d e r m a t a	
Bipinnaria larva	1050
Echinophuteus larva	150
9. E g g s	
& F i s h	
Gadus merlangus	50

III. "Pier" A, Scheveningen two hours before high water.
 Date: 16th April 1970

<p>III. Hauls</p> <p>1. Place of hauling</p> <p>2. Situation</p> <p>3. Weather forecast</p> <p>4. Weather conditions while hauling</p> <p>5. Time of hauling</p> <p>6. Distance while hauling</p> <p>7. Temperature during hauling</p> <p>8. Wind</p> <p>9. Lighthouse a day</p> <p>10. Tides</p> <p>11. Water-Levels</p> <p>12. Direction of streams</p> <p>13. Direction of streams at Scheveningen</p> <p>14. Chemical analysis</p>	<p>III. "Pier" A, Scheveningen</p> <p>"Pier" Scheveningen</p> <p>± 300 meter from the beach</p> <p>Generally very cloudy and mostly dry weather. Wind moderate between Western and South-Western. Temperature somewhat higher than on the 15th of April</p> <p>Sky fully overcast greyish. A moment the sun was vaguely shining. Visibility poor and mist near the horizon. The sun was vaguely coming through, directly after rain was coming. Seawater greyish-brown. Near the place of hauling at first a little transparent later on brownish. Sea rather calm.</p> <p>10.03 - 10.15 by walking</p> <p>± 144 meter by walking</p> <p>In the air 9°C In the water 2°C</p> <p>Semaphore Direction: S.W.-S.S.W. Force 6½m/sec</p> <p>13.57 a day</p> <p>1st H.W. 11.49</p> <p>a. when hauling: + 38cm b. when H.W. between the hauls c. when L.W. before hauling ^{+85cm} -75 cm</p> <p>2 hours before H.W.</p> <p>Direction Force</p> <p>Chloride 10500 mg/l 239 6 mg/l Phosphate 0,50 " 9,70 Nitrate 5 " 13</p>
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III. Haul "Pier" A, Scheveningen

Date: 16th April 1970

III. Haul "Pier" A.

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	2700
Biddulphia sp	1833600
" aurita	2100
" mobiliensis	900
" rhombus	1200
" sinensis	13800
Chaetoceros sp	9900
Coscinodiscus concinnus	2400
" excentricus	4200
" granii	6300
Eucampia zoodiacus	1500
Lauderia sp.	8400
Leptocylindricus danicus	3900
Phaeocystis present	
Rhizosolenia sp.	18900
Thalassiosira sp	900
2. P r o t o z o a	
Noctiluca miliaris	2700
Dinoflagellata sp	900
3. C o e l e n t e r a t a	
Sarsia tubulosa	100
4. P o l y c h a e t a	
Polychaeta sp	150
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp	
v Anomalocera patersoni	1100
Centropages sp.	150
Microcalanus pusillus	250
Temora longicornis	300
C i r r i p e d i a	
Cypris larva Cirripedia sp	150
Nauplius " " "	50
6. M o l l u s c a	
Mactra corallina (0.2mm)	50
Mytilus edulis (o.2mm)	50
7. E c h i n o d e r m a t a	
Bipinnaria larva	100
8. E g g s	
E v e r t e b r a t a	
Evertebrata sp	100

IV. "Pier" B Scheveningen two hours after high water

Date: 16th April 1970

Hauls	IV. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Generally very cloudy and mostly dry weather. Wind moderate between Western and South-Western. Temperature somewhat higher than on the 15th of April.
4. Weather conditions, while hauling	Sky overcast though a little lighter than in the morning. Vaguely the sun came through. Visibility still poor and misty along the horizon. Sea greyish brown, rather calm. Sea brown near the place of hauling.
5. Time of hauling	13.43 - 14.55 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature during hauling	In the air $10\frac{1}{2}^{\circ}\text{C}$ In the water $3\frac{1}{2}^{\circ}\text{C}$
8. Wind	Semaphore Direction S.W.-S.S.W. Force 9m/s
9. Lighthours a day	13.57 a day
10. Tides	1st H.W. 11.49
11. Water Levels	a. when hauling + 54 cm b. when H.W. between the hauls + 85 cm c. when L.W. before hauling -75cm
12. Direction of streams	2 hours after H.W.

13. Direction of streams at Scheveningen

Direction
Force

14. Chemical analysis

Chloride	11300 mg/l	6070 mg/l
Phosphate	0,10	0,40
Nitrate	4	13

IV. Haul "Pier" B.

Date: 16th April 1970

IV. Haul "Pier" B.

1. B a c i l l a r i o p h y c e a e	
Bellarochea malleus	3250
Biddulphia sp	1314000
" aurita	2000
" rhombus	10000
" sinensis	1000
Chaetoceros sp	7000
Coscinodiscus concinnus	3250
" excentricus	1500
" granii	3750
Ditylum brightwelli	500
Eucampia zodiacus	2250
Fragilaria sp	500
Lauderia sp	31500
Leptocylindricus danicus	1750
Phaeocystis sp	--
Rhizosolenia sp	1250
2. P r o t o z o a	
Noctiluca miliaris	1500
3. C o e l e n t e r a t a	
Bougainvillia ramosa	100
Sarsia tubulosa	50
4. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	400
Anomalocera patersoni	200
Centropages sp.	100
Microcalanus pusillus	100
C i r r i p e d i a	
Nauplius larva Cirripedia sp	50
C y c l o p o i d a	
Cyclopoida sp.	50
5. E c h i n o d e r m a t a	
Bipinnaria larva	100

I. "Pier" A, two hours before high water
Date: 29th April 1970

- | | |
|--|---|
| 1. Hauls | I. "Pier" A Scheveningen. |
| 2. Situation | "Pier" Scheveningen |
| 3. Weather forecast | Temporarily rain, later on also clearing of the sky. Wind moderate to strong. At first wind South-western, later on veering ² off to North-western. Night less cold; on the 29th of April about the same temperature as on the 28th of April |
| 4. Weather while hauling | Cloudy grey-white-black clouds. Also blue patches. At first no sun later on the sun came through. Visibility rather good. Sea greyish near the place of hauling brownish and somewhat transparent. Strong wind, sea choppy. |
| 5. Time of hauling | 7.03 - 7.15 by walking |
| 6. Distance while hauling | + 144 meter by walking |
| 7. Temperature | In the air 6°C
In the water 4°C |
| 8. Wind, Semaphore indications | Direction N.W. Force 17m/sec |
| 9. Lighthours a day | 14.46 a day |
| 10. Tides | 1st H.W. 8.43 |
| 11. Water Levels | a. when hauling + 124 cm
b. when H.W. (1st H.W.) + 208 cm
c. when L.W. (before hauling) - 45 cm |
| 12. Direction of streams indicated at Scheveningen | Direction Force - 45 cm |

13. Direction of streams Two hours before high water

14. Chemical analysis

Chloride	—	H
Phosphate	0,15 mg/l	—
Nitrate	4 "	—

I. "Pier" A, two hours before high water

Date: 29th April 1970

I. Haul "Pier" A, Scheveningen	
1. B a c i l l a r i o p h y c e a e	
Bellarochea malleus	1600
Biddulphia sp	61500
" aurita	2350
" mobiliensis	1000
" regia	500
" rhombus	1250
" sinensis	2250
Chaetoceros sp	250
Coscinodiscus concinnus	100
" excentricus	100
" granii	500
Eucampia zoodiacus	250
Fragilaria sp	350
Lauderia sp.	500
Melosira borreri	250
Rhizosolenia sp.	1500
Skeletonema costatum	250
Thalassiosira sp	100
Phaeocystis present	--
2. P r o t o z o a	
Foraminifera sp	100
Noctiluca miliaris	1600
3. C o e l e n t e r a t a	
Sarsia tubulosa	150
4. C r u s t a c e a	
C o p e p o d a	
Acartia sp	950
Centropages hamatus	400
Microcalanus pusillus	1250
Nauplius larva Cop sp.	350
C i r r i p e d i a	
Cypris larva Cirripedia sp	200
Nauplius " " "	150
H a r p a c t i c o i d a	
Harpacticoida sp	50
5. P o l y c h a e t a	
Polychaeta sp	200
6. M o l l u s c a	
L a m e l l i b r a n c h i a t a	
Mactra corallina (0.2mm)	50
Mytilus edulis (0.2mm)	450
7. U r o c h o r d a t a	
Larva of Doliiodida sp	100
8. E g g s	
E v e r t e b r a t a	
Evertebrata sp	200
F i s h	
Clupea sp (0.9mm)	50

II. "Pier" B, two hours after high water

Date: 29th April 1970

II. Hauls	"Pier" B, Scheveningen
2. Situation	"Pier" Scheveningen
3. Weather forecast	Temporarily rain, later on also clearing of the sky. Wind moderate to strong. At first wind South-western, later on veering at to North-western. Night less cold, on the 29th of April about the same temperature as on the 28th of April.
4. Weather while hauling	Less cloudy than in the morning Sea very rough Stormy, sunshine. It was impossible to do ordinary hauling. I did a 5 minutes' haul between the crest of the waves.
5. Time of hauling	10.45 - 10.51 by walking
6. Distance while hauling	+ 144 meter by walking
7. Temperature	In the air $8\frac{1}{2}^{\circ}\text{C}$ In the water $4\frac{1}{2}^{\circ}\text{C}$
8. Wind, Semaphore indications	Direction N.W. Force 19m/sec
9. Lighthouse a day	14.46 a day
10. Tides	1st H.W. 8.43
11. Water-Levels	a. when hauling + 145 cm b. when H.W. (between the hauls) c. when L.W. (before hauling) $+208\text{ cm}$ -45 cm -45 cm
12. Direction of streams indicated at Scheveningen	Direction Force
13. Direction of streams	Two hours after high water

14. Chemical analysis

Chloride	—	—
Phosphate	0,20	0,15
Nitrate	0,4	0,4

II. "Pier" B, two hours after high water

Date: 29th April 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarocho malleus	4400
Biddulphia sp	118800
" alternans	400
" aurita	14000
" mobiliensis	2400
" regia	1600
" rhombus	10000
" sinensis	7200
Chaetoceros sp	400
Coscinodiscus concinnus	1200
" excentricus	4000
" granii	7600
Eucampia zoodiacus	400
Fragilaria sp	800
Laudaria sp	400
Melosira borreri	800
Rhizosolenia sp	2800
2. P r o t o z o a	
Foraminifera sp	2800
Noctiluca miliaris	2000
3. C o e l e n t e r a t a	
Hydroid of Sarsia sp	100
4. N e m a t o d a	
Nematoda sp	100
5. P o l y c h a e t a	
Polychaeta sp	900
" Larvae	200
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	900
Centropages hamatus	500
Microcalanus pusillus	900
Temora longicornis	100
C i r r i p e d i a	
Cypris larva Cirripedia sp	300
H a r p a c t i c o i d a	
Harpacticoida sp	100
7. M o l l u s c a	
G a s t r o p o d a	
Gastropoda (0.4mm)	100
I a m e l l i b r a n c h i a t a	
Ensis ensis (0.25mm)	100
Mytilus edulis (0.2mm)	200
Spisula solida (0.35mm)	200
8. E c h i n o d e r m a t a	
Bipinnaria larva	300
9. F i s h	
Clupea pilchardus (2,5mm)	100

III. "Pier" A, two hours before high water

Date: 14th May 1970

- | | |
|--|--|
| 1. Hauls | III "Pier" A Scheveningen |
| 2. Situation | "Pier" Scheveningen |
| 3. Weather forecast | Dry and rather sunny weather. During the night and in the morning locally misty and low hanging clouds. Hardly wind and in the daytime temperature a little above the temperature of the 13th of May |
| 4. Weather while hauling | Misty, sky fully overcast. Visibility very poor. Water very calm brownish. Hardly any wind. |
| 5. Time of hauling | 7.35 - 17.47 by walking |
| 6. Distance while hauling | + 144 meter by walking |
| 7. Temperature | In the air $9\frac{1}{2}^{\circ}\text{C}$
In the water $6\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, Semaphore indications | Direction <i>N.W.</i> Force <i>4 m/sec.</i> |
| 9. Lighthours a day | 15.37 a day |
| 10. Tides | 1st H.W. 9.23 |
| 11. Water Levels | a. when hauling + 30 cm
b. when H.W. (between the hauls) + 78 cm
c. when L.W. (before hauling) - 82 cm |
| 12. Direction of streams indicated at Scheveningen | Direction Force |
| 13. Direction of streams | Two hours before high water |

14. Chemical analysis

H

Chloride	11200 mg/l	2556 mg/l
Phosphate	0.30 "	0.55 "
Nitrate	3 "	7 "

III. "Pier" A, two hours before high water

Date: 14th May 1970

III. Haul "Pier" A, Scheveningen.

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	300
Biddulphia sp	6150
" mobiliensis	150
" regia	50
" rhombus	150
" sinensis	1200
Coscinodiscus sp	50
" concinnus	100
" excentricus	50
" granii	300
Eucampia zodiacus	350
Fragilaria sp	50
Leptocylindricus danicus	50
Phaeocystis present	--
Rhizosolenia sp	1150
Skeletonema danicus	350
2. P r o t o z o a	
Noctiluca miliaris	300
3. C o e l e n t e r a t a	
Bougainvillia ramosa	50
4. C t e n o p h o r a	
Pleurobrachia pileus	100
5. P o l y c h a e t a	
Spionid post-larva of a Polychaeta sp.	150
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	4200
Anomalocera patersoni	200
Centropages sp	400
Temora longicornis	800
C i r r i p e d i a	
Cypris larva Cirr sp	550
7. M o l l u s c a	
Mactra corallina	150
G a s t r o p o d a	
Empty pteropoda shell	50
8. E c t o p r o c t o	
Cyphonautes larva	50
Membranipora membranacea	
9. E g g s	
Evertebrata sp	300
F i s h	
Clupea sprattos (0.8mm)	100

Hardly any detritus. The water was greenish and translucent by Phaeocystis being present.

IV. "Pier" B, two hours after high water

Date: 14th May 1970

- | | | | | | | | | | | |
|--|--|---------------------|---------------------|---------------------|-----------|------------------|------------------|---------|---------------|---------------|
| 1. Hauls | IV. "Pier" B, Scheveningen | | | | | | | | | |
| 2. Situation | "Pier" Scheveningen | | | | | | | | | |
| 3. Weather forecast | Dry and rather sunny weather. During the night and in the morning locally misty and low hanging clouds. Hardly wind and in the day time temperature a little above the temperature of the 13th of May. | | | | | | | | | |
| 4. Weather while hauling | Sun had come through. Sky only lightly clouded and many patches of blue. Near the horizon still misty and visibility poor. Sea brownish calm | | | | | | | | | |
| 5. Time of hauling | 11.13 - 11.25 by walking | | | | | | | | | |
| 6. Distance while hauling | + 144 meter by walking | | | | | | | | | |
| 7. Temperature | In the air $14\frac{1}{2}^{\circ}\text{C}$
In the water $9\frac{1}{2}^{\circ}\text{C}$ | | | | | | | | | |
| 8. Wind, Semaphore indications | Direction <i>N.W</i> Force $5\frac{1}{2}\text{ m/sec}$ | | | | | | | | | |
| 9. Lighthours a day | 15.37 a day | | | | | | | | | |
| 10. Tides | 1st H.W. 9.23 | | | | | | | | | |
| 11. Water Levels | a. when hauling + 54 cm
b. when H.W. (between the hauls)
c. when L.W. (before hauling) $+78\text{ cm}$
-82 cm | | | | | | | | | |
| 12. Direction of streams indicated at Scheveningen | Direction Force | | | | | | | | | |
| 13. Direction of streams | Two hours after high water | | | | | | | | | |
| 14. Chemical analysis | <div style="text-align: right; margin-right: 20px;">H</div> <table border="0"> <tr> <td>Chloride</td> <td>11800 mg/l</td> <td>12800 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>$0,25\text{ ''}$</td> <td>$0,35\text{ ''}$</td> </tr> <tr> <td>Nitrate</td> <td>3 ''</td> <td>3 ''</td> </tr> </table> | Chloride | 11800 mg/l | 12800 mg/l | Phosphate | $0,25\text{ ''}$ | $0,35\text{ ''}$ | Nitrate | 3 '' | 3 '' |
| Chloride | 11800 mg/l | 12800 mg/l | | | | | | | | |
| Phosphate | $0,25\text{ ''}$ | $0,35\text{ ''}$ | | | | | | | | |
| Nitrate | 3 '' | 3 '' | | | | | | | | |

IV. "Pier"B, two hours after high water

Date: 14th May 1970

IV. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp	1400
" mobiliensis	200
" regia	50
" sinensis	700
Coscinodiscus excentricus	50
Eucampia zoodiacus	600
Leptocylindricus danicus	50
Phaeocystis present	
Rhizosolenia sp	14050
Skeletonema costatum	4300
2. P r o t o z o a	
Noctiluca miliaris	800
3. C o e l e n t e r a t a	
Bougainvillia ramosa	50
4. C t e n o p h o r a	
Pleurobrachia pileus	50
5. P o l y c h a e t a	
Polychaeta larva	50
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	350
Anomalocera patersoni	50
Centropages hamatus	50
C i r r i p e d i a	
Cypris larva Cirr sp.	100
Nauplius " " "	50
7. E c t o p r o c t a	
Cyphonautes larva	50
Membranipora membranacea	
8. E c h i n o d e r m a t a	
Young Echinodermata sp	*50
9. E g g s	
Evertebrata eggs	350
F i s h	
Clupea sprathis (0.8mm)	250

Hardly any detritus. The water was greenish and translucent by Phaeocystis being present.

I. "Pier A", Scheveningen, two hours before high water

Date: 1st June 1970

- | | |
|--|--|
| I. Hauls | I. "Pier" A, Scheveningen. |
| 1. Place of hauling | "Pier" Scheveningen |
| 2. Situation | + 300 meter from the beach |
| 3. Weather forecast | Generally much cloudy and locally some rain or drizzle. Temperature the same as beforehand. |
| 4. Weather, while hauling | Blue sky with some white clouds
Sunny though the sun sometimes was disappearing. Sea rather calm, yet getting more choppy. Colour of the sea greyish-brown. Near the place of hauling light brown. Wind fresh visibility rather good. |
| 5. Time of hauling | 11.13 - 11.25 by walking. |
| 6. Distance of hauling | + 144 meter by walking |
| 7. Temperature | In the air $18\frac{1}{2}^{\circ}\text{C}$
In the water $11\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind | Semaphore
Direction N.W. Force: 8 $\frac{m}{1.2}$ |
| 9. Lighthours a day | 16.22 |
| 10. Tides | 1st H.W. 13.09 |
| 11. Water Levels | a. when hauling + 32 cm
b. when H.W. between the hauls
+ 114 cm
c. when L.W. before hauling -32cm |
| 12. Direction of streams | Two hours before hauling |
| 13. Direction of streams indicated at Scheveningen | Direction Force |
| 14. Chemical analysis | H
Chloride 13000 mg/l 8900 mg/l
Phosphate 0,25 " 0,40 "
Nitrate 3 " 4 " |

I. Haul "Pier" Scheveningen, taken with the fine net.
 Date: 1st June 1970

I. Haul "Pier" A Scheveningen	
1. B a c i l l a r i o p h y c e a e	
Biddulphia sp. Bellarochea malleus	8600
" mobiliensis	600
" rhombus	350
" sinensis	1250
Bellarochea malleus	500
Coscinodiscus concinnus	100
" excentricus	850
" granii	1100
W Eucampia zodiacus	100
Phaeocystis sp.	--
Rhizosolenia sp.	500
Skeletonema costatum	1500
2. P r o t o z o a	
Noctiluca miliaris	3750
Vase Tintinnid sp.	100
3. C o e l e n t e r a t a	
Bougainvillea ramosa	100
Obelia sp.	50
Steenstrupia nutans	50
4. C t e n o p h o r a	
Pleurobrachia pileus	100
5. P o l y c h a e t a	
Polychaeta sp.	50
Polychaeta larva	50
Terebella larva	100
Trochophora larva	100
Polychaeta sp.	
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	1550
Centropages hamatus	1450
Microcalanus pusillus	750
Nauplius larva Cop sp.	100
C i r r i p e d i a	
Cypris larva Cirripedia sp.	600
Nauplius " " "	200
7. M o l l u s c a	
Mytilus edulis(0.2mm)	100
8. E c h i n o d e r m a t a	
Echinopluteus larva	100
Ophiopluteus "	1300
9. E g g s	
E v e r t e b r a t a	
Packet of eggs (are eggs counted)	1900
F i s h	
Clupea sprattus (1.5mm)	100
Gadus callarius (2 mm)	50

Remark:

D e t r i t u s c o n t e n t s

$\frac{1}{10}$

II. "Pier" B ,Scheveningen, two hours after high water

Date: 1st June 1970

II. Hauls	II. "Pier" B Scheveningen										
1. Place of hauling	"Pier" Scheveningen										
2. Situation	± 300 meter from the beach										
3. Weather forecast	Generally much cloudy and locally some rain and drizzle. Temperature the same as beforehand.										
4. Weather, while hauling	Blue sky with some white clouds. Sun as in the morning. Sea greyish brown, near the place of hauling brownish and transparent. Sea more choppy. Visibility poor.										
5. Time of hauling	15.07 - 15.19 by walking										
6. Distance of hauling	± 144 meter by walking										
7. Temperature	In the air 25°C In the water 14°C										
8. Wind	Semaphore Direction: N.W. Force: 10										
9. Lighthouse a day	16.22										
10. Tides	1st H.W. 13.09										
11. Water Levels	a. when hauling + 70 cm b. when H.W. between the hauls + 114 cm c. when L.W. before hauling -32cm										
12. Direction of streams	Two hours after hauling										
13. Direction of streams indicated at Scheveningen	Direction	Force									
14. Chemical analysis	<table border="0"> <tbody> <tr> <td>Chloride</td> <td>13700 mg/l</td> <td>3273 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>0,35 "</td> <td>0,60 "</td> </tr> <tr> <td>Nitrate</td> <td>3 "</td> <td>12 "</td> </tr> </tbody> </table>		Chloride	13700 mg/l	3273 mg/l	Phosphate	0,35 "	0,60 "	Nitrate	3 "	12 "
Chloride	13700 mg/l	3273 mg/l									
Phosphate	0,35 "	0,60 "									
Nitrate	3 "	12 "									

II. Haul "Pier" B Scheveningen, taken with the fine net
Date: 1st June 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarochea malleus	800
Biddulphia sp	10750
" mobiliensis	250
" regia	50
" sinensis	1050
Chaetoceros sp	50
Coscinodiscus concinnus	550
" excentricus	1000
" granii	1500
Eucampia zoodiacus	500
Fragilaria sp.	150
Leptocylindricus danicus	300
Phaeocystis sp	present
Rhizosolenia sp	300
Skeletonema costatum	16500
2. P r o t o z o a	
Noctiluca miliaris	1400
Dinoflagellata sp	50
Tintinnid vase	50
3. C o e l e n t e r a t a	
Bougainvillea ramosa	100
4. C t e n o p h o r a	
Pleurobrachia pilosa	50
5. P o l y c h a e t a	
Polychaeta larva	100
Terebella larva	50
Vase Terebella larva	150
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp	1150
Anomalocera patersoni	300
Centropages hamatus	600
Microcalanus pusillus	200
C i r r i p e d i a	
Cypris larva Cirr.sp	250
Nauplius " " "	100
C u m a c e a	
Cumacea sp	50
7. M o l l u s c a	
Mytilus edulis(o.2)mm	150
8x Modiolus modiolus(o.2mm)	50
8. E c h i n o d e r m a t a	
Bipinnaria larva	100
Echinopluteus larva	1150
Ophiopluteus larva	950
Young Asterias sp(o.4mm)	50
9. S a l p i d a	
Oikopleura dioica	50
10. E g g s	
F i s h	
Clupea sprattus	150
Solea solea	50

Remark: 1/8 contents Detritus

III. "Pier" A, Scheveningen, two hours before high water

Date: 15th June 1970

Hauls	III. "Pier" A, Scheveningen		
1. Place of hauling	"Pier" Scheveningen		
2. Situation	± 300 meter from the beach		
3. Weather forecast	Weather dry and rather sunny. Wind mostly moderate; northern. Little change in temperature (warm, close weather).		
4. Weather, while hauling	Sky fully overcast. No sunshine. Sea greyish-brown. Near the place of hauling light brown, not transparent. Water rather calm, though some rolling was present. Visibility rather good.		
5. Time of hauling	9.36 - 9.48 by walking		
6. Distance of hauling	± 144 meter by walking		
7. Temperature	In the air 14°C In the water 12°C		
8. Wind	Semaphore Direction	Force	
9. Lighthours a day	16.42		
10. Tides	1st H.W. 11.34		
11. Water Levels	a. when hauling + 12 cm b. when H.W. between the hauls + 86cm c. when L.W. before hauling -84cm		
12. Direction of streams	Two hours before hauling		
13. Direction of streams indicated at Scheveningen	Direction	Force	
14. Chemical analysis	Chloride	16600 mg/l	4248 mg/l
	Phosphate	1.50 "	0.00 "
	Nitrate	1 "	10 "

III. Haul "Pier" A, Scheveningen, taken with the fine net.

Date: 15th June 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarochea malleus	500
Biddulphia sp	6000
" sinensis	1000
Cāscinodiscus concinnus	5500
" excentricus	6500
" granii	27500
Chaetoceros sp.	500
Lauderia sp.	500
Skeletonema costatum	500
2. P r o t o z o a	
Noctiluca miliaris	263050
3. C o e l e n t e r a t a	
Steenstrupia nutans	50
4. C t e n o p h o r a	
Pleurobrachia pileus	300
5. P o l y c h a e t a	
Polychaeta sp	350
" larva	150
Terebella larva	650
Tomopteris sp.	100
Vase Terebella larva	250
6. M o l l u s c a	
Lamellibranchiata	
Cardium sp.(0.2mm)	150
7. E c h i n o d e r m a t a	
Bipinnaria larva	50
Echinopluteus "	450
8. E g g s	
F i s h	
Fish sp	100

Remark: $\frac{1}{7}$ contents
 Noctiluca Layer

There was one mass of Noctiluca miliaris present. The weather had been very warm and close for the month of June. By this mass other organisms could hardly come to the surface of the water. And as I take surface-water the results were as indicated; besides the net was clogged by Noctiluca. I hardly could get it out of the water, as the water remained in it.

IV. "Pier" B, Scheveningen, after high water, two hours

Date: 15th June 1970

Hauls	IV. "Pier" B, Scheveningen	
1. Place of hauling	"Pier" Scheveningen	
2. Situation	± 300 meter from the beach	
3. Weather forecast	Weather dry and rather sunny. Wind mostly moderate; northern. Little change in temperature. (warm, close weather)	
4. Weather, while hauling	Sky slightly cloudy. Sun vaguely to be seen, later on coming through Sea greyish-brown, calmer than in the morning. Near the place of hauling light brown. Visibility rather good. Weather, close.	
5. Time of hauling	13.32 - 13.44	
6. Distance of hauling	± 144 meter by walking	
7. Temperature	In the air $21\frac{1}{2}^{\circ}\text{C}$ In the water $12\frac{1}{2}^{\circ}\text{C}$	
8. Wind	Semaphore Direction	Force
9. Lighthouse a day	16.42	
10. Tides	1st H.W. 11.34	
11. Water Levels	a. when hauling +50cm b. when H.W. between the hauls +86 cm c. when L.W. before hauling -84cm	
12. Direction of streams	Two hours after hauling	

13. Direction of streams indicated at Scheveningen

Direction

Force

14. Chemical analysis

 Chloride
Phosphate
Nitrate

 16.500 mg/l
0.35 "
2 "

 41
92.60 mg/l
0.60 "
6 "

IV. Haul "Pier" B, Scheveningen taken with the fine net.

Date: 15th June 1970.

IV. Haul "Pier" B, Scheveningen.

1. B a c i l l a r i p p h y c e a e	
Coscinodiscus excentricus	300
" granii	300
2. P r o t o z o a	
Steenstrupia nutans Noctiluca miliaris	972 150
3. C o e l e n t e r a t a	
Steenstrupia nutans	150
4. C t e n o p h o r a	
Pleurobrachia pileus	100
5. P o l y c h a e t a	
Polychaeta sp.	250
Terebella larva	300
Vase Terebella larva	100
6. C r u s t a c e a	
C ĩ p e p o d a	
Acartia sp.	50
7. S a l p i d a	
Oikopleura dioica	100
8. E c h i n o d e r m a t a	
Echinopluteus larva	300

Remark: $\frac{2}{7}$ contents Noctiluca Layer

There was one mass of Noctiluca miliaris present. The weather had been very warm and close for the month of June. By this mass other organisms would hardly come to the surface of the water. And as I take surface-water the results were as indicated; besides the net was clogged by Noctiluca; I hardly could get it out of the water, as the water remained in it.

Hauls	I. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	± 300 meter from the beach
3. Weather forecast	Sky partly or heavily overcast. Temporary rain. Wind moderate to strong. Free wind from the South to Western. Continually cold.
4. Weather while hauling	Sky overcast with dark clouds. During hauling the sun vaguely came through. Colour of the sea greyish-brown. Near the place of hauling light brown and slightly transparent. Sea choppy visibility not too bad.
5. Time of hauling	11.14 - 11.26
6. Distance while hauling	± 144 meter by walking.
7. Temperature	In the water 12 $\frac{1}{8}$ °C In the air 15° C
8. Wind	semaphore Direction: Force:
9. Lighthours a day	16.39 a day
10. Tides	2nd H.W. 13.39
11. Water Levels	a. when hauling + 8 cm b. when H.W. between the hauls +115cm c. when L.W. before hauling -76cm
12. Direction of streams	Two hours before H.W.
13. Direction of streams indicated at Scheveningen	Direction: Force:
14. Chemical analysis	Chloride: 13700 mg/l → 3035 mg/l Phosphate: 0,15 0,80 Nitrate: 4 120

I. Haul "Pier" A, Scheveningentaken with the fine net

Date: 1st July 1970

I. Haul "Pier" A Scheveningen		
1. B a c i l l a r i o p h y c e a e		
Biddulphia sp		500
" regia		50
" sinensis		150
Chaetoceros sp.		50
Coscinodiscus excentricus		150
" granii		50
Rhizosolenia sp.		800
Thalassiosira sp.		400
Fragilaria sp.		50
2. P r o t o z o a		
Noctiluca miliaris	219850	
Foraminifera sp.		250
3. C o e l e n t e r a t a		
Phialidium hemisphericum		150
Steenstrupia nutans		200
4. N e m a t o d a		
Nematoda sp		200
5. P o l y c h a e t a		
Empty vase Terebella larva	3950	
Larva Polychaeta sp		50
Polychaeta sp.		250
Terebella larva		250
Tomopteris sp.		50
6. C r u s t a c e a		
C o p e p o d a		
Acartia sp.		150
Centropages hamatus		250
Microcalanus pusillus		50
Nauplius larva Cop.sp		1100
C l a d o c e r a		
Evadna sp.		300
C i r r i p e d i a		
Cypris larva Cir.sp.		100
Nauplius " " "		350
D e c a p o d a		
Megalopa larva Cancer sp		50
7. M o l l u s c a		
Lamelli branchiatil		
Cardium edule (0.125mm)		100
Mytilus edulis (o.2mm)		100
8. E c h i n o d e r m a t a		
Echinopluteus larva	1250	
Ophio pluteus "		150
9. S a l p i d a		
Oikopleura dioica		50
10. E g g s		
Evertebrata sp.		200

Detritus (inclusive Noctiluca) $\frac{3}{8}$ contents

II. "Pier" B, two hours after high water

Date: 1st July 1970

Hauls	II. "Pier" B, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Sky partly or heavily overcast. Temporary rain. Wind moderate to strong. Free wind from Southern to Western. Continually cold.
4. Weather, while hauling	Sky fully overcast; no sunshine some dark clouds. Sea grey at the distance near the place of hauling light brown, slightly transparent and less choppy than in the morning. Visibility not too bad.
5. Time of hauling	15.09 - 15.21
6. Distance while hauling	+ 144 meter by walking
7. Temperature	In the water 14°C In the air 19°C
8. Wind	Semaphore Direction: Force:
9. Lighthours a day	16.39 a day
10. Tides	2nd H.W. 13.39
11. Water Levels	a. when hauling + 82cm b. when H.W. between the hauls +115cm c. when L.W. before hauling -76cm
12. Direction of streams	Two hours after H.W.
13. Direction of streams indicated at Scheveningen	Direction: Force
14. Chemical analysis	Chloride 14100 mg/l Phosphate 0,15 Nitrate 2 11

4
9745 mg/l
0,30
6

II. Haul "Pier" B, Scheveningen, taken with the fine net

Date: 1st July 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarocha malleus	150
Biddulphia sp.	1850
" aurita	100
" sinensis	100
Chaetoceros sp.	1000
Coscinodiscus excentricus	250
" granii	1350
Ditylum brightwelli	100
Fragilaria sp.	100
Phaeocystis sp.	present
Rhizosolenia sp.	3250
Skeletonema costatum	600
Thalassiosira sp.	850
2. P r o t o z o a	
Noctiluca miliaris	447100
3. C o e l e n t e r a t a	
Phialidium hemisphericum	550
Steenstrupia nutans	150
4. C t e n o p h o r a	
Pleurobrachia pileus	50
5. P o l y c h a e t a	
Empty vase Terebella larva	250
Polychaeta sp.	150
Polychaeta larva	150
Terebella larva	550
Tomopteris sp.	250
6. P h o r o n i d a	
Actinotrocha Phoronis	50
7. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	1100
Centropages hamatus	400
Microcalanus pusillus	150
Nauplius larva Cop.sp	3700
C i r r i p e d i a	
Cypris larva Cir.sp.	150
Nauplius larva Cir.sp	3200
C l a d o c e r a	
Evadna sp.	450
Evadna notdmanni ♀	50
Podon sp.	100
D e c a p o d a	
XZoea larva Cancer sp	50
8. E c h i n o d e r m a t a	
Bipinnaria larva	50
Echinopluteus "	7300
Ophiopluteus "	300
9. S a l p i d a	
Oikopleura dioica	50
10. E g g s	
Evertabrata eggs	
Detritus (inclusive Noctiluca) $\frac{1}{9}$ contents	

III. "Pier" A, two hours before high water

Date: 27th July 1970

Hauls	III. "Pier" A, Scheveningen									
1. Place of hauling	"Pier" Scheveningen									
2. Situation	± 300 meter from the beach									
3. Weather forecast	Locally some showers but also clearing of the sky. Wind mostly moderate, Western. Continuously cold.									
4. Weather, while hauling	Sky blew with white clouds. Sun rather vaguely shining, through a slight haze. The horizon misty too and visibility rather bad. Sea rolling, greyish brown. Near the place of hauling brownish, rather transparent. Visibility rather bad.									
5. Time of hauling	7.35 - 7.47									
6. Distance while hauling	± 144 meter by walking									
7. Temperature	In the air 19°C In the water 14°C									
8. Wind	Semaphore Direction: W.N.W. Force: 6m/sec.									
9. Lighthouse a day										
10. Tides	1st H.W. 9.35									
11. Water Levels	a. when hauling + 16 cm b. when H.W. between the hauls +90 cm c. when L.W. before hauling -78cm									
12. Direction of streams	Two hours before H.W.									
13. Direction of streams indicated at Scheveningen	Direction: Force:									
14. Chemical analysis	<table border="0"> <tr> <td>Chloride</td> <td>13700 mg/l</td> <td>2846 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>0.20 "</td> <td>0.65 "</td> </tr> <tr> <td>Nitrate</td> <td>4 "</td> <td>12 "</td> </tr> </table>	Chloride	13700 mg/l	2846 mg/l	Phosphate	0.20 "	0.65 "	Nitrate	4 "	12 "
Chloride	13700 mg/l	2846 mg/l								
Phosphate	0.20 "	0.65 "								
Nitrate	4 "	12 "								

III. "Haul "Pier" A, Scheveningen, taken with the fine net.

Date: 27th July 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Bellarochia malleus	500
Biddulphia sp	100
" aurita	500
" mobiliensis	19650
" regia	18850
" sinensis	4250
Cerataulina bergonii	50
Chaetoceros sp.	2500
Coscinodiscus concinnus	3150
" excentricus	1400
" granii	600
Ditylum brightwelli	300
Fragilaria sp.	50
Phaeocystis	--
Skeletonema costatum	300
2. P r o t o z o a	
Empty vase Tintinnid sp.	50
Foraminifera sp	50
Noctiluca miliaris	32800
3. C o e l e n t e r a t a	
Hydroid Turbularia sp.	50
Leucartiaria octonata	50
Obelia sp.	50
Phialidium hemisphericum	100
Steenstrupia nutans	50
4. N e m a t o d a	
Nematoda sp	50
5. P o l y c h a e t a	
Polychaeta sp	100
Terebella larva	350
6. C r u s t a c e a	
Cirripedia	
Cypris larva Cirripedia sp	250
Nauplius " "	100
C l a d o c e r a	
Evadna sp	150
Pedon sp.	100
C o p e p o d a	
Acartia sp.	1850
Anomalocera sp	50
Centropages hamatus	250
Microcalanus pusillus	2350
Nauplius larva Copepoda sp.	650
Temora longicornis	100
7. M o l l u s c a	
L a m e l l i b r a n c h i a t a	
Glycymeris glycymeris (0.35mm)	100
G a s t r o p o d a	
Larva Gastropoda sp.	50

8. E c h i n o d e r m a t a Echinopluteus larva	300
9. S a l p i d a Oikopleura dioica	100
10. E c t o p r o c t a Cyphonautes Larva Membranipora membranacea	50

Sodiment: $\frac{1}{6}$ (much wood)

IV. "Pier" B, two hours after high water

Date: 27th July 1970

Hauls	IV. "Pier" Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Locally some showers but also clearing of the sky. Wind mostly moderate Western. Continually cold.
4. Weather while hauling	Sky fully overcast, no sunshine. A few drops of rain were falling. Misty along the horizon. Visibility poor. Sea brownish-grey; choppy more than in the morning. Near place of hauling brownish. A little transparent.
5. Time of hauling	11.25 - 11.47
6. Distance while hauling	+ 144 meter by walking
7. Temperature	In the air 19°C In the water 13°C
8. Wind	Semaphore Direction: S.W. Force: 7m/sec.
9. Lighthours a day	
10. Tides	1st H.W. 9.35
11. Water Levels	a. when hauling + 48 cm b. when H.W. between the hauls +90cm c. when L.W. before hauling -78cm
12. Direction of streams	Two hours after H.W.

13. Direction of streams indicated at Scheveningen Direction: Force:

14. Chemical analysis	Chloride	14200 mg/l	5112 mg/l
	Phosphate	0.15 "	0.60 "
	Nitrate	4 "	12 "

IV. "Pier" B, Scheveningen, taken with the fine net.

Date: 27th July 1970

Haul IV. "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp	600
" mobiliensis	4050
" regia	14250
" sinensis	8550
Cerataulina bergonii	450
Chaetoceros sp	*300
Coscinodiscus concinnus	2050
" granii	450
Phaeocystis	present
2. P r o t o z o a	
Foraminifera sp.	50
Noctiluca miliaris	11250
3. C o e l e n t e r a t a	
Phialidium hemisphericum	200
4. P o l y c h a e t a	
Empty vase Terebella larva	50
Polychaeta sp.	50
Terebella larva	100
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	800
Centropages hamatus	100
Microcalanus pusillus	1500
Nauplius larva Cop sp.	600
Temora longicornis	50
C i r r i p e d i a	
Nauplius larva Cir sp	350
C l a d o c e r a	
Evadna sp.	150
Podon sp	50
6. E c t o p r o c t a	
Oikopleura dioica	200
7. F i s h	
Gadus merlangus (1.5mm)	50

Sediment $\frac{2}{13}$ (much wood)

I. "Pier" A, Scheveningen, two hours before high water

Date: 13th August 1970

Hauls	I. "Pier" A, Scheveningen									
1. Place of hauling	"Pier" Scheveningen									
2. Situation	± 300 meter from the beach									
3. Weather forecast	Periods with sub. Precipitation of no importance. Wind moderate to strong. Southern to Western. Temperature generally somewhat higher.									
4. Weather, while hauling	Sun, no clouds, no rain. Hazy especially near the horizon, visibility not good. Sea calm greyish-brown. Near the place of hauling brownish a little transparent.									
5. Time of hauling	9,- - 9.12 by walking									
6. Distance while hauling	± 144 meter by walking									
7. Wind	Semaphore Direction: S.E. Force: 5m/sec									
8. Tides	1st H.W. 11.02									
9. Water Levels	a. when hauling + 18cm b. when H.W. between the hauls + 65cm c. when L.W. between the hauls - 72cm									
10. Temperature	In the air $17\frac{1}{2}^{\circ}\text{C}$ In the water 16°C									
11. Lighthours a day	14.49									
12. Direction of streams	Two hours before H.W.									
13. Direction of streams at Scheveningen	Direction: Force:									
14. Chemicala analysis	<div style="text-align: right; margin-right: 20px;">4</div> <table border="0"> <tbody> <tr> <td>Chloride</td> <td>15500 mg/l</td> <td>4633 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>0,15 "</td> <td>0,90 "</td> </tr> <tr> <td>Nitrate</td> <td>3 "</td> <td>4 "</td> </tr> </tbody> </table>	Chloride	15500 mg/l	4633 mg/l	Phosphate	0,15 "	0,90 "	Nitrate	3 "	4 "
Chloride	15500 mg/l	4633 mg/l								
Phosphate	0,15 "	0,90 "								
Nitrate	3 "	4 "								

I. Haul "Pier" A, Scheveningen, taken with the fine net

Date: 13th August 1970

I. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e

Bellarochea malleus	250
Biddulphia sp.	139250
" alternans	250
" mobiliensis	2200
" sinensis	15250
Chaetoceros sp.	102250
Coscinodiscus concinnus	19750
" excentricus	13000
" granii	139750
" regia	27750
Eucampia sp.	2500
Fragilaria sp.	250
Leptocylindricus danicus	3250
Melosira sp.	250
Rhizosolenia sp.	92750
" alata	10500
Skeletonema costatum	602750
Phaecystis	present
Thallossiosira sp.	1750

2. P r o t o z o a

Ceratium fusus	1250
Noctiluca miliaris	4750

3. C o e l e n t e r a t a

Sarsia sp.	350
Young Cerianthus sp	100

4. C t e n o p h o r a

Pleurobrachia pileus	50
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5. P o l y c h a e t a

Larva Polychaeta sp.	300
Polychaeta sp	450
Terebella larva	250

6. C r u s t a c e a

C o p e p o d a	
Acartia sp	200
Centropages hamatus	50
Microcalanus pusillus	50
Nauplius larva Cop. sp.	50
Temora longicornis	300
D e c a p o d a	
Megalopa larva	
Cancer maenas	50

7. C h a e t o g n a t h a

Sagitta sp.	100
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8. E c h i n o d e r m a t a

Echinopluteus larva	100
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Sediment: $\frac{1}{4}$ contents

II. "Pier" B, Two hours after high water

Date: 13th August 1970

Hauls	II. "Pier" B, Scheveningen									
1. Place of hauling	"Pier" Scheveningen									
2. Situation	+ 300 meter from the beach									
3. Weather forecast	Periods with sun. Precipitation of <u>no</u> importance. Wind moderate to strong. Southern to Western. Temperature generally somewhat higher									
4. Weather, while hauling	Sun, no clouds, no rain. Hazy near the horizon. Visibility not good. Water greyish-brown. Sea calm. Warm weather. Near the place of hauling water brown and somewhat transparent									
5. Time of hauling	12.50 - 13.02									
6. Distance, while hauling	+ 144 meter by walking									
7. Wind	Semaphore Direction: S.E. Force: 4m/sec									
8. Tides	1st H.W. 11.02									
9. Water Levels	a. when hauling + 41cm b. when H.W. between the hauls +65cm c. when L.W. between the hauls -72cm									
10. Temperature	In the air $24\frac{1}{2}^{\circ}\text{C}$ In the water 17°C									
11. Lighthouse a day	14.49									
12. Direction of streams	Two hours after H.W.									
13. Direction of streams at Scheveningen	Direction: Force:									
14. Chemical analysis	<div style="text-align: right; margin-right: 20px;">H</div> <table border="0"> <tr> <td>Chloride</td> <td>14900 mg/l</td> <td>10900 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>0.10 "</td> <td>0.50 "</td> </tr> <tr> <td>Nitrate</td> <td>4 "</td> <td>0 "</td> </tr> </table>	Chloride	14900 mg/l	10900 mg/l	Phosphate	0.10 "	0.50 "	Nitrate	4 "	0 "
Chloride	14900 mg/l	10900 mg/l								
Phosphate	0.10 "	0.50 "								
Nitrate	4 "	0 "								

II. "Pier" B, Scheveningen, taken with the fine net

Date: 13th August 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e

Biddulphia sp.	1800
" sinensis	3200
" mobiliensis	1400
" regia	5900
Chaetoceros sp.	12800
Coscinodiscus concinnus	1100
" excentricus	2100
" granii	76400
Eucampia sp	1700
Fragilaria sp	100
Rhizosolenia sp.	37400
" alata	2500
Skeletonema costatum	135800
Phaeocystis	present

2. P r o t o z o a

Ceratum fusus tripos	200
" tripos	100
Noctiluca miliaris	200

3. C o e l e n t e r a t a

Phialidium hemisphericum	50
Sarsia sp.	50

4. P o l y c h a e t a

Larva Polychaeta sp.	150
Terebella larva	50

5. C r u s t a c e a

Copepoda	
Acartia sp	50
Microcalanus pusillus	50
Temora longicornis	50
Cirripedia	
Nauplius larva Cir sp.	50

6. E c h i n o d e r m a t a

Echinopluteus larva	200
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7. C h a e t o g n a t h a

Sagitta sp	50
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Sediment: $\pm \frac{1}{20}$ contents

III. "Pier" A, two hours before high water

Date: 25th August 1970

Hauls	III. "Pier" A, Scheveningen	
1. Place of hauling	"Pier" Scheveningen	
2. Situation	± 300 meter from the beach	
3. Weather forecast	Dry, sunny and rather warm weather Wind light to moderate. Northern to North-eastern	
4. Weather, while hauling	Sky overcast with blue patches. Later on the sun came through. Visibility rather good. Water greyish-brown. Near the place of hauling brown, not very transparent Sea calm.	
5. Time of hauling	7.06 - 7.18	
6. Distance, while hauling	± 144 meter by walking	
7. Wind	Semaphore Direction: N.E. Force: 5m/sec	
8. Tides	1st H.W. 9.01	
9. Water Levels	a. when hauling - 8 cm b. when H.W. between the hauls +65cm c. when L.W. between the hauls -78cm	
10. Temperature	In the air 14°C In the water 11°C	
11. Lighthours a day	14.05	
12. Direction of streams	Two hours before H.W.	
13. Direction of streams at Scheveningen	Direction:	Force:
14. Chemical analysis	Chloride 163.00 mg/l Phosphate 6.20 " Nitrate 3 "	

III. "Pier" A, Scheveningen, taken with the fine net

Date: 25th August 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp.	5250
" mohiliensis	20850
" regia	900
" sinensis	4800
Chaetoceros sp.	28800
Coscinodiscus concinnus	15750
" granii	12750
" excentricus	17100
Eucampia zoodiacus	1050
Fragilaria sp.	150
Leptocylindricus danicus	450
Rhizosolenia sp	1200
2. P r o t o z o a	
Noctiluca miliaris	27200
3. C t e n o p h o r a	
Pleurobrachia miliaris	50
4. C o e l e n t e r a t a	
Leucartiara octona	400
5. P o l y c h a e t a	
Polychaeta sp	2550
" larva	500
Terebella "	100
Vase Terebella "	50
6. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	800
Microcalanus pusillus	50
C i r r i p e d i a	
Cypris larva Cirripedia sp	150
C y c l o p o i d a	
Cyclopoida sp	100
7. C h a e t o g n a t h a	
Sagitta sp	50
8. S a l p i d a	
Oikopleura dioica	50
9. E c h i n o d e r m a t a	
Young Echinodermata sp	50

Sediment: $\pm \frac{1}{19}$ contents

IV. "Pier" B, two hours after high water

Date: 25th August 1970

Hauls	#IV. "Pier" B, Scheveningen	
1. Place of hauling	"Pier" Scheveningen	
2. Situation	± 300 meter from the beach	
3. Weather forecast	Dry, sunny and rather warm weather. Wind light to moderate. Northern to Northern-eastern	
4. Weather, while hauling	Clear sky, sunshine. Only light clouds Rather, warm. Visibility good, sea calm greyish-blue. Water near the place of hauling brown. Not very transparent.	
5. Time of hauling	10.50 - 11.02	
6. Distance, while hauling	± 144 meter by walking	
7. Wind	Semaphore Direction: N.N.E. Force: 4m/sec	
8. Tides	1st H.W. 9.01	
9. Water Levels	a. when hauling ± 38cm b. when H.W. between the hauls +65cm c. when L.W. before hauling -78cm	
10. Temperature	In the air 20°C In the water 16°C	
11. Lighthouse a day	14.05	
12. Direction of streams	Two hours after H.W.	
13. Direction of streams at Scheveningen	Direction:	Force:
14. Chemical analysis	Chloride	16400 mg/l
	Phosphate	0.20
	Nitrate	3

IV. "Pier" B, Scheveningen, taken with the fine net.
Date: 25th August 1970

IV. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp	7800
" mobiliensis	12150
" regia	3600
" sinensis	7200
Chaetoceros sp.	46800
Coscinodiscus concinnus	65550
" excentricus	7050
" granii	18750
Ditylum brightwelli	1050
Eucampia zoodiacus	3600
Fragilaria sp	750
Leptocylindricus danicus	300
Rhizosolenia sp	3300
Skeletonema costatum	150
Thalassiosira sp	750
2. P r o t o z o a	
Noctiluca miliaris	24600
3. C o e l e n t e r a t a	
Leucartiara Octona	100
4. P o l y c h a e t a	
Polychaeta sp	300
Terebella larva	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp	150
Nauplius larva	50
Copepoda sp.	
C i r r i p e d i a	
Cypris larva Cirripedia sp.	100
6. C h a e t o g n a t h a	
Sagitta sp.	150
7. S a l p i d a	
Oikopleura dioica	200
8. E g g s	
Evertebrata eggs	300

Sediment: $\pm \frac{1}{20}$ contents

IV. "Pier" A, two hours before high water

Date: 11th September 1970

~~XXXXXX~~

Hauls	I. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Clearing of the sky but also a few showers. Near the coast temporarily strong. South-western wind. Little change in temperature.
4. Weather, while hauling	At first heavy rain and sky overcast. Later on clearing of the sky. Cold windy weather. Sea very choppy; greyish light brown. At the place of hauling light brown and a little transparent. Visibility not very good.
5. Time of hauling	9.03 - 9.15 by walking
6. Distance, while hauling	By walking + 144 meter
7. Wind	Semaphore Direction: S.W. Force: 13m/sec.
8. Tides	1st H.W. 10.52
9. Water Levels	a. when hauling + 65cm b. when H.W. between hauls + 40cm c. when L.W. before hauling -78cm
10. Temperature	☒ In the air 14½°C In the water 13°C
11. Lighthours a day	12.50
12. Direction of streams	Two hours before H.W.
13. Direction of streams at Scheveningen	Direction: Force:

14. Chemical analysis

Chloride	15300 mg/l	4795 mg/l
Phosphate	0.10 "	0.50 "
Nitrate	3 "	8 "

I. "Pier" A, Scheveningen, taken with the fine net

Date: 11th September 1970

I. Haul "Pier" A Scheveningen	
1. B a c i l l a r i o p h y c e a e	
Biddulphia sp.	1500
" alternans	150
" mobiliensis	7750
" sinensis	7750
Chaetoceros sp	400
Coscinodiscus cōncinnus	1090
" excentricus	8750
" granii	26750
Ditylum brightwelli	150
Eucampia zoodiacus	650
Fragilaria sp.	650
Leptocylindricus danicus	500
Rhizosolenia sp.	5150
Skeletonema costatum	6650
2. P r o t o z o a	
Ceratium fusus	250
Formaminifera sp.	100
Noctiluca miliaris	1150
3. C o e l e n t e r a t a	
Leucartiara octona	150
Obelia sp	350
Phialidium hemisphericum	150
Steenstrupia nutans	50
4. P o l y c h a e t a	
Polychaeta sp.	700
Polychaeta larvae	50
Terebella "	300
Vase Terebella "	250
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	2250
Calanus finmarchicus	200
Microcalanus pusillus	2250
Nauplius larva Cop.sp	1350
Temora longicornis	300
C i r r i p e d i a	
Cypris larva Cir.sp.	450
Nauplius " " "	2700
C y c l o p o i d a	
Cyclopoida sp.	650
H a r p a c t i c o i d a	
Harpacticoida sp	300
D e c a p o d a	
Megalopa larva	50
6. M o l l u s c a	
L a m e l l i b r a n c h i a t a	
Macha corallina (0.2mm)	100
Spisula solida (0.25mm)	150
7. S a l p i d a	
Oikopleura dioica	500
8. E c h i n o d e r m a t a	
Echinopluteus larva	100

II. "Pier" B. two hours after high water.

Date: 11th September 1970

Hauls	II. "Pier" B, Scheveningen												
1. Place of hauling	"Pier" Scheveningen												
2. Situation	+ 300 meter from the beach												
3. Weather forecast	Clearing of the sky but also a few showers. Near the coast temporarily strong. South-western wind. Little change in temperature. At first heavy rain												
4. Weather while hauling	Sky overcast, rain. Later on sun. Sea greyish light-brown-green. Place of hauling light brown and a little transparent. Visibility poor.												
5. Time of hauling	12.58 - 13.10 by walking												
6. Distance, while walking	By walking + 144 meter												
7. Wind	Semaphore Direction: S.W. Force: 13m/sec												
8. Tides	1st H.W. 10.52												
9. Water Levels	a. when hauling -32 cm b. when H.W. between hauls +40cm c. when L.W. before hauling -78cm												
10. Temperature	In the air $15\frac{1}{2}^{\circ}\text{C}$ In the water 13°C												
11. Lighthours a day	12.58												
12. Direction of streams	Two hours after H.W.												
13. Direction of streams at Scheveningen	Direction: Force:												
14. Chemical analysis	<table border="0"> <tbody> <tr> <td>Chloride</td> <td>15200 mg/l</td> <td>4</td> <td>9106 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>6,15 "</td> <td></td> <td>0,30 "</td> </tr> <tr> <td>Nitrate</td> <td>3 "</td> <td></td> <td>0 "</td> </tr> </tbody> </table>	Chloride	15200 mg/l	4	9106 mg/l	Phosphate	6,15 "		0,30 "	Nitrate	3 "		0 "
Chloride	15200 mg/l	4	9106 mg/l										
Phosphate	6,15 "		0,30 "										
Nitrate	3 "		0 "										

II. "Pier" B, Scheveningen, taken with the fine net.

Date: 11th September 1970

II. Haul "Pier" B, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp.	5250
" mobiliensis	2000
" sinensis	4000
Coscinodiscus concinnus	6400
" excentricus	3250
" granii	8500
Eucampia zoodiacus	250
Fragilaria sp.	400
Leptocylindricus danicus	150
Rhizosolenia sp.	12500
Skeletonema costatum	500
2. P r o t o z o a	
Noctiluca miliaris	6600
3. C o e l e n t e r a t a	
Leucartiara octoma	50
4. P o l y c h a e t a	
Polychaeta sp	4500
" larvae	2500
Terebella larva	3500
Vase Terebella	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp	1050
Centropages hamatus	100
Microcalanus pusillus	250
Nauplius larva Cop.cp	200
Temora longicorins	100
C i r r i p e d i a	
Cypris larva Cir.sp.	100
Nauplius " " "	200
C y c l o p o i d a	
Cyclopoida sp	200
H a r p a c t i c o i d a	
Harpacticoida sp	50
6. C h a e t o g n a t a	
Sagitta sp	150
7. M o l l u s c a Lamellibranchiatu	
Spisula solida (90.2mm)	200
8. S a l p i d a	
Oikopleura dioica	50
9. E c h i n o d e r m a t a	
Echinopluteus larva	50

III. "Pier" A, Scheveningen, two hours before high water
Date: 25th September 1970

Hauls	III. "Pier" A, Scheveningen
1. Place of hauling	"Pier" Scheveningen
2. Situation	+ 300 meter from the beach
3. Weather forecast	Night cold and locally misty. For the rest dry and in the afternoon rather sunny weather.
4. Weather, while hauling	Sky blue with light clouds. Sunshine. At sea very misty. The horizon could hardly be seen and visibility poor. Sea greenish and very calm. Near the place of hauling green-brown and transparent.
5. Time of hauling	9.18 - 9.30 by walking
6. Distance, while hauling	By walking + 144 meter
7. Wind	Semaphore Direction: Force:
8. Tides	1st H.W. 11.37 + 15 cm
9. Water Levels	a. when hauling 45 50 cm b. when H.W. between the hauls + 46 cm c. when L.W. before hauling - 70 cm - 50 cm
10. Temperature	In the air 16°C In the water 15°C
11. Lighthours a day	12.03
12. Direction of streams	Two hours before H.W.
13. Direction of streams	Direction: Force:

14. Chemical analysis

Chloride	1500 mg/l	2004 mg/l
Phosphate	0,15 "	0,00 "
Nitrate	2 "	6 "

H

III. "Pier" A, Scheveningen, taken with the fine net.

Date: 25th September 1970

III. Haul "Pier" A, Scheveningen

1. B a c i l l a r i o p h y c e a e	
Biddulphia sp.	1800
" aurita	150
" mobiliensis	1800
" regia	1700
" sinensis	2800
Chaetoceros sp.	150
Coscinodiscus concinnus	4550
" excentricus	5700
" granii	4850
Ditylum brightwelli	50
Fragilaria sp.	450
2. P r o t o z o a	
Ceratium fusus	50
Noctiluca miliaris	7900
3. C o e l e n t e r a t a	
Obelia sp	50
Sarsia sp	100
4. P o l y c h a e t a	
Polychaeta sp	400
" larva	150
Trochophora "	100
Vase Terebella "	50
5. C r u s t a c e a	
C o p e p o d a	
Acartia sp.	5450
Centropages hamatus	750
Microcalanus pusillus	750
Nauplius larva Cop.sp.	250
Temora longicornis	500
C i r r i p e d i a	
Nauplius larva Cir.sp	350
C y c l o p o i d a	
Cyclopoida sp	650
H a r p a c t i c o i d a	
Harpacticoida sp.	2250
" " with eggs	1850
D e c a p o d a	
Megalopa larva (Cancer sp)	50
Zoea larva Cancer sp	50
6. M o l l u s c a	
L a m e l l i b r a n c h i a t a x	
Mytilus edulis (0.2mm)	100
7. E c t o p r o c t a	
Cyphonautes larva	50
Membranipora membranacea	50
8. C h a e t o g n a t h a	
Sagitta sp	
9. E g g s	
Evertebrata sp.	900

Sediment very little

IV. "Pier" B, two hours after high water.

Date: 25th September 1970

Hauls	IV. "Pier" B, Scheveningen,									
1. Place of hauling	"Pier" Scheveningen									
2. Situation	± 300 meter from the beach									
3. Weather forecast	Night cold and locally misty. For the rest dry and in the afternoon rather sunny weather.									
4. Weather, while hauling	Sky blue with white clouds. Sunshine Very misty at sea, the horizon could not be seen. Sea greenish very calm. visibility very poor. Sea near place of hauling greenish transparent.									
5. Time of hauling	1.22 - 1.34									
6. Distance, while hauling	By walking ± 144 meter									
7. Wind	Semaphore Direction: Force:									
8. Tides	1st H.W. - 11.37									
9. Water Levels	a. when hauling +10cm b. when H.W. between hauls +46cm c. when L.W. before hauling -50cm									
10. Temperature	In the air 22°C In the water 16°C									
11. Lighthours a day	12.03									
12. Direction of streams	Two hours after H.W.									
13. Direction of streams at Scheveningen	Direction: Force:									
14. Chemical analysis	<table border="0"> <tbody> <tr> <td>Chloride</td> <td>15800 mg/l</td> <td>10200 mg/l</td> </tr> <tr> <td>Phosphate</td> <td>0.20 "</td> <td>0.65 "</td> </tr> <tr> <td>Nitrate</td> <td>3 "</td> <td>6 "</td> </tr> </tbody> </table>	Chloride	15800 mg/l	10200 mg/l	Phosphate	0.20 "	0.65 "	Nitrate	3 "	6 "
Chloride	15800 mg/l	10200 mg/l								
Phosphate	0.20 "	0.65 "								
Nitrate	3 "	6 "								

