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Mu

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

B u o y - V e r o n i c a S c h e v e n i n g e n

29 September 1965 - 9th August 1966

by dr. Joh.a Muller

SAMPLING DATA

SEPTEMBER 1965

LIST OF ORGANISMS

Station: N. of the "Buoy" Scheveningen

Date: 29th September 1965

TYPES	ABUNDANCE		
	Coarse	Medium	Fine
1. Bacillariophyceae			
Bacillaria paradoxa	250		
Bellerochia malleus		300	500
Biddulphia favus			700
" mobiliensis	400		6300
" rhombus			500
" sinensis			6800
Chaetoceros sociale	600		1800
Coscinodiscus concinnus	700	1000	8600
" excentricus	1000		7400
" granii	1500	1100	350
" radiatus	700		
Ditylum brightwelli			1800
Eucampia sp		300	
Lauderia glacialis		300	
Melosira sp	300		3350
Rhizosolenia styliformis	350		
Skeletonema costatum	1500	2000	
Thalassiosira Nordenskiöldii	400	1700	1350
2. Protozoa			
Noctiluca miliaris	1150		
3. Coelenterata			
Phialidium hemisphericum	1700	1800	1400
4. Chaetognatha			
Sagitta setosa		1350	3950
5. Polychaeta			
Post larval Terebella	1800	6500	4250
Vases of Terebella	400		7000
6. Crustacea			
Copepoda			
Centropages hamatus			2150
Temora longicornis		900	1400
Mysidacea			
Siriella armata		350	1350
7. Echinodermata			
Post larval Ophiothrix fragilis			1250
8. Salpida			
Oikopleura dioica	400		2500

SAMPLING DATA

SEPTEMBER 1965

Station: S. of the "Buoy" ScheveningenDate: 29 September 1965

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1. Hauls S. of the "Buoy"
 2. Situation 500 meter south of the buoy
 3. Weather forecast weather changeable; wind south-western light to moderate
 4. Weather conditions, while hauling Clouded sky
 5. Time of hauling by sailing 12.30 - 12.40
 6. Distance, while hauling 444,4 meter by sailing
 7. Temperature, while hauling in the air 14°
in the water 16°
 8. Wind, while hauling direction S.W - S
force of the wind 7 m/sec
 9. Light, while hauling on deck ship 1800 m a
above the sea surface 2200 m a
 10. Amount of light hours lighthouse a day 11.46
 11. Tides 1st high tide 5,37
5 hours before H.W.
 12. Direction of streams near Scheveningen, during hauling
 13. Chemical analysis of the seawater near the place of hauling Chloride 16620 mg/l
Phosphate 0,07 mg/l
Nitrate trace

LIST OF ORGANISMS

Station: S. of the "Buoy" Scheveningen

Date: 29th September 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Asterionella sp	300		
Bellerophonella malleus			600
Biddulphia mobiliensis	400	1800	8100
" regia	350	300	
" sinensis		700	7700
Cerataulina bergonii			300
Chaetoceros sociale	400	3600	
Coscinodiscus concinnus	1250	1050	10000
" excentricus	700	750	
" granii	750		9100
" radiatus			
Fragilaria oceanica			1100
Lauderia glacialis			100
Melosira sp	1300		700
Rhizosolenia styliformis	2800	400	
" robusta			1350
Skeletonema costatum	2500	2100	1800
Thalassiosira condensata	1100		400
" decipiens			
" Nördenskiöldii	3450	400	
3. Coelenterata			
Phialidium hemisphericum	1000	1800	
Leucartiaria octona			300
3. Chaetognatha			
Sagitta setosa	750	1100	400
4. Polychaeta			
Post larval Terebella	1400	4950	5250
Vases of Terebella		350	2500
Tomopheris helgolandica			500
5. Crustacea			
Copepoda			
Centropages hamatus			3450
Temora longicornis		2800	
Amphipoda			
Parathemisto sp.			400
Decapoda			
Zoea larva Cancer pagurus			600
" " Crangon vulgaris		350	
" " Lepidonotus			600
" " Portunus puber		1800	300
6. Mollusca			
Gastropoda			
Hydrobia ulvae			200
8. Salpida			
Oikopleura dioica		1450	1850

SAMPLA DATA

OCTOBER 1965

Station: N.N.E. of "Veronica"Date: 19th October 1965

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- | | |
|---|--|
| 1. Hauls | N.N.E. of "Veronica" |
| 2. Situation | N.N.E. of "Veronica" |
| 3. Weather forecast | Slightly clouded; mist in the morning cold during the night, almost near freezing point. Dry weather, moderate eastern wind. |
| 4. Weather condition, while hauling | clouded sky |
| 5. Time of hauling | by sailing 11.30 - 11.40 |
| 6. Distance, while hauling | 400 meter by sailing |
| 7. Temperature, during hauling | of the air 12°C
of the water 15°C |
| 8. Wind, while hauling | direction E.N.E.
force of wind 4/m _{sec} . |
| 9. Light during hauling | on deck ship 1500 m.a.
on the sea surface 1000 m.a. |
| 10. Amount of lighthours a day | lighthours a day 10.22 |
| 11. Tides | 1st high tide 9.47 |
| 12. Direction of streams near Scheveningen during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride: 17700 mg/l
Phosphate: 0,24 mg/l
Nitrate, a trace |

SAMPLING DATA

OCTOBER 1965

LIST OF ORGANISMS

Station: N.N.E. of "Veronica"

Date: 19 October 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Bacillaria paradoxa		100	
Biddulphia mobiliensis			50
" sinensis	50		
Coscinodiscus concinnus	1000	450	24500
" excentricus	950	1000	41650
" granii	900	1900	75450
" lineatus			50
" marginatus	800	2350	
Leptocylindricus danicus		100	
Rhizosolenia sp			50
2. Protozoa			
Noctiluca miliaris	100	150	250
3. Coelenterata			
Obelia sp		50	
Phialidium hemisphericum	400		
Phialella quadrata		300	150
4. Chaetognatha			
Sagitta setosa	200	150	2000
5. Polychaeta			
Mitraria larva of ^{we} Ortonia			
Nectosoma larva of Magelona			
Postal larva of Terebella	450	1150	2650
Vases of Terebella	150	650	550
Young larva Pectinaria			200
6. Crustacea			
Copepoda			
Centropages typicus	200	150	2050
Microcalanus pusillus	150		2200
Temora longicornis	250	150	450
Decapoda			
Megalopa larva Portunus puber	650		
Zoea larva Carcinus maenas	750		300
" " Inachus dorsettensis	100		100
8. Echinodermata			
Bipinnaria larva of Asterius rubens	100		
9. Eggs			
Fish sp		50	100

SAMPLING DATA

OCTOBER 1965

Station: S.S.W. of "Veronica"Date: 19th October 1965

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|--|---|
| 1. Hauls | S.S.W. of "Veronica" |
| 2. Situation | S.S.W. of "Veronica" |
| 3. Weather forecast | Slightly clouded; mist in the morning cold during the night, almost near freezing point. Dry weather, moderate eastern wind |
| 4. Weather condition, while hauling | clouded sky |
| 5. Time of hauling | by sailing 10.50 - 11.- |
| 6. Distance, while hauling | 400 meter by sailing |
| 7. Temperature, during hauling | of the air 12°C
of the water 15°C |
| 8. Wind, while hauling | direction E.N.E.
force of wind 4m/sec |
| 9. Light, during hauling | on deck ship 1500 m.a
on the sea surface 1200 m.a |
| 10. Amount of lighthouse a day | lighthouse a day 10.22 |
| 11. Tides | 1st high tide 9.47 |
| 12. Direction of streams near Scheveningen during hauling | |
| 13. Chemical analysis of the sea water near the place of hauling | Chloride: 18315 mg/l
Phosphate: 0,56 mg/l
Nitrate, a trace |

LIST OF ORGANISMS

Station: S.S.E. of "Veronica"

Date: 19 October 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. B A C I L L A R I O P H Y C E A E			
Biddulphia mobiliensis	50		50
Coscinodiscus concinnus	1650		5450
" excentricus	1800	100	14950
" granii	1600	150	3530
" marginatus	900	50	
2. P r o t o z o a			
Noctiluca miliaris			100
3. C o e l e n t e r a t o			
Leucartiara octona	50		
Obelia sp			50
Phialidium hemisphericum	150	300	
Phialella quadrata	600		100
4. C h a e t o g n a t h a			
Sagitta setosa	350	450	350
5. P o l y c h a e t a			
Larva of Polychaeta sp	100		
Nectosoma larva of Mageiona	100		
Postal larva Terebella	3200	850	900
Vases of Terebella	150	300	700
Young larva Pectinaria	50		
6. C r u s t a c e a			
C o p o p o d a			
Centropages typicus	150	100	1650
Microcalanus pusillus	350	50	1000
Temora longicornis		100	120
A m p h i p o d a			
Hyperia sp			50
E u p h a u s i a c e a			
Euphausia sp larva			100
D e c a p o d a			
Megalopa larva Portunus puber	300	100	
Zoea larva Carcinus maenas	500	200	
" " Inachus dorsettensis	400		
C i r r i p o d i a			
Larva Balanus balanoides		50	
9. E G G S			
Fish sp	200	50	

SAMPLING DATA

NOVEMBER 1965

Station: N.N.E. of "Veronica"Date: 10th November 1965

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|--|--|
| 1. Hauls | N.N.E. of "Veronica" |
| 2. Situation | N.N.E. of "Veronica" |
| 3. Weather forecast | Weather quiet, passing clouds and locally mist; possibly rain; wind light to moderate, eastern |
| 4. Weather, while hauling | Sky clouded |
| 5. Time of hauling | by sailing 10.45 - 10.55 |
| 6. Distance, while hauling | 540 meter by sailing |
| 7. Temperature, while hauling | of the air 8°C
of the water 11°C |
| 8. Wind | direction E
force of the wind 3 m/sec |
| 9. Light, while hauling | on deck 2000 m.a.
on the sea 1400 m.a. |
| 10. Amount of lighthouse* | lighthouse a day 9.06 |
| 11. Tides | 2nd high tide 15.50 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analysis of the sea water of the place of hauling | Chloride 17700 mg/l
Phosphate 0,51 mg/l
Nitrate-trace |

SAMPLING DATE

NOVEMBER 1965

LIST OF ORGANISMS

Station: N.N.E. of "Veronica"

Date: 10th November 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia mobiliensis		150	6000
" sinensis		400	2450
Coscinodiscus concinnus	1850	250	119750
" excentricus	7250	3250	16400
" granii	11960	6750	20100
Chaetoceros sociale			600
Ditylum brightwelli			350
Eucampia zoodiacus		50	400
Lauderia borealis			100
Navicula sp			100
Rhizosolenia sp			100
Skeletonema sp			100
Thalassiosira condensata			300
2. Protozoa			
Noctiluca miliaris		100	500
3. Coelenterata			
Phialidium hemisphericum	4100	6050	350
Phialella quadrata			50
4. Chaetognatha			
Sagitta setosa	100	300	300
5. Polychaeta			
Larva of a Polychaeta sp		50	50
Polynoid larva of a Polychaeta sp			100
Post larval Terebella	350	1900	600
Vases of Terebella		150	100
Young larva of Pectinaria			400
6. Crustacea			
Copepoda			
Centropages hamatus		1800	700
Microcalanus pusillus	50	250	3100
Pseudocalanus elongatus			2450
Temora longicornis	50	200	150
Mysidacea			
Mysis sp			150
Decapoda			
Megalopa larva Carcinus maenas	250	200	
" " Portunus puber	50		
Zoea larva Crangon vulgaris	250		
Cirripedia			
Larva Balanus balanoides	50	100	

SAMPLING DATA

NOVEMBER 1965

Station: S.S.E. of "Veronica"Date: 10th November 1965

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- | | |
|---|--|
| 1. Hauls | S.S.E. of "Veronica" |
| 2. Situation | S.S.E. of "Veronica" |
| 3. Weather forecast | Weather quiet, passing clouds and locally mist; possibly rain; wind light to moderate, eastern |
| 4. Weather, while hauling | Sky clouded |
| 5. Time of hauling | by sailing 11.30 - 11.40 |
| 6. Distance, while hauling | 480 meter by sailing |
| 7. Temperature, while hauling | of the air 11°C
of the water 10°C |
| 8. Wind | direction E
force of the wind 3m/ sec |
| 9. Light, while hauling | on deck 2100 m.a.
on the sea 1500 m.a |
| 10. Amount of lighthours | lighthours a day 9.06 |
| 11. Tides | 2nd high tide 15.50 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analysis
the sea water of
the place of hauling | Chloride 17850 mg/l
Phosphate 0,31 mg/l
Nitrate - trace |

LIST OF ORGANISMS

Station: S.S.E. of "Veronica"

Date: 10th November 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia mobiliensis	300	50	
" sinensis			3650
Coscinodiscus concinnus	4600	11850	5400
" excentricus	7000	16400	12850
" granii	9200	30500	35200
Ceratium sp.			100
Chaetoceras sp			1400
Ditylum brightwelli			100
Eucampia zoodiacus			100
Melosira sp			100
Navicula sp			50
Rhizosolenia sp			250
Skeletonema sp			150
Thalassiosira condensata	50	50	100
2. Protozoa			
Noctiluca miliaris	50	50	100
3. Coelenterata			
Phialidium hemisphericum	250	600	
4. Chaetognatha			
Sagitta elegans	100	50	200
5. Polychaeta			
Spionid late larva of Polychaeta sp			100
Post larval Terebella	900	3650	1200
Vases of Terebella	100	350	600
6. Crustacea			
Copepoda			
Centropages hamatus	100	4400	1150
Microcalanus pusillus	600	150	
Pseudocalanus elongatus	50	150	
Temora longicornis		250	350
Mysidacea			
Mysis sp		150	50
Amphipoda			
Parathenisto sp	50		
Decapoda			
Megalopa larva Portunus puber	250	50	
Zoea larva Portunus puber		50	
" " Carcinus maenas	150	150	50
Cirripodia			
Larva Balanus balanoides	50	50	600
7. Salpida			
Oikopleura dioica			300
8. Echinodermata			
Echinopluteus larva		50	

SAMPLING DATADECEMBER 1965Station: N.E. of "Buoy" ScheveningenDate: 13th December 1965

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|---|--|
| 1. Hauls | N.E. of "Buoy" Scheveningen |
| 2. Situation | N.E. of "Buoy" Scheveningen |
| 3. Weather forecast | Rain and stormy weather; wind moderate to strong, between west and north-west. Temperature 4 - 6° C. |
| 4. Weather conditions while hauling | Clouded sky with a drizzle |
| 5. Time of hauling | By sailing 10.15 - 10.30 |
| 6. Distance, while hauling | 480 meter by sailing |
| 7. Temperature | of the air 6° C
of the water 7° C |
| 8. Wind | direction S.W - W
force of the wind 4 m/sec |
| 9. Light | on deck ship 400 m.a
on the sea surface 500 m.a |
| 10. Lighthours | Lighthours a day 7.58 |
| 11. Tides | 1st high tide 6.14 |
| 12. Direction of streams near Scheveningen during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 11393 mg/l
Phosphate 0,33 mg/l
Nitrate 4 |

SAMPLING DATE

DECEMBER 1965

LIST OF ORGANISMS

Station: N.E. of "Buoy" Scheveningen

Date: 13th December 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia mobilienses			50
" sinensis			100
Coscinodiscus concinnus	450	400	14800
" excentricus	2400	1200	45650
" granii	3100	1400	10150
Chaetoras sp			
Thalassiosira Nordenskiöldii		50	
2. Protozoa			
Noctiluca miliaris			50
3. Coelenterata			
Phialidium hemisphericum		50	
5. Polychaeta			
Polychaeta sp		50	100
Postal larva Magelona papillicornis			50
Vasés of Terebella		100	200
6. Crustacea			
Copepoda			
Centropages hamatus			100
Microcalanus pusillus		50	50
Temora longicornis		50	50
Mysidacea			
Leptomysis gracilis	100		
Amphipoda			
Hyperia galba			50
Cirripedia			
Cypris larva Balanus balanoides	100		
7. Mollusca			
Lamellibranchiata			
Young Lamellibranchiata		200	50
8. Ectoprocata			
Cyphonaute of Membranipora membranacea	150	100	
9. Fish egg	50		

SAMPLING DATA

DECEMBER 1965

Station: S.W. of "Buoy" ScheveningenDate: 13th December 1965

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- | | |
|---|--|
| 1. Hauls | S.W. of "Buoy" Scheveningen |
| 2. Situation | S.W. of "Buoy" Scheveningen |
| 3. Weather forecast | Rain and stormy weather; wind moderate to strong; between west and north-west
Temperature 4 - 6°C |
| 4. Weather conditions while hauling | Clouded sky with a drizzle |
| 5. Time of hauling | By sailing 10.45 - 11.00 |
| 6. Distance, while hauling | 480 meter by sailing |
| 7. Temperature | of the air 6°C
of the water 7°C |
| 8. Wind | direction S.W - W
force of the wind 4m/sec |
| 9. Light | on deck ship 400 m.a
on the sea surface 500 m.a |
| 10. Lighthouse | Lighthouse a day 7.58 |
| 11. Tides | 1st high tide 6.14 |
| 12. Direction of streams near Scheveningen during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 9725 mg/l
Phosphate 0,37 mg/l
Nitrate 5 |

SAMPLING DATA

DECEMBER 1965

LIST OF ORGANISMSStation: S.W. of "Buoy" ScheveningenDate: 13th December 1965

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia mobiliense	50		
" sinensis	50		250
Coscinodiscus concinnus	400	50	2050
" excentricus	1600	650	2750
" granii	2450	900	3250
Chaetoros densus			100
Rhizosolenia sp	50	50	150
" faeroëensis		100	
" styliformis			100
Thalassiosira Nordenskiöldii			50
2. Protozoa			
Noctiluca miliaris			100
3. Coelenterata			
Phiadilium hemisphericum	50		
4. Chaetognatha			
Sagitta selosa	50		
5. Polychaeta			
Nereid nectochaeta larva			300
Vases of Terebella			150
6. Crustacea			
Copepoda			
Acartia clausi		200	200
Centropages hamatus		450	
Microcalanus pusillus			250
Temora longicornis	50		
Mysidacea			
Leptomysis gracilis	50	50	
Amphipoda			
Eusires longipes	350		
Hyperia galba		400	
Cirripedia			
Cypris larva Balanus balanoides			50
7. Mollusca			
Lamellibranchiata	50		
Gastropoda			
Young Gastropoda			50
8. Ectopoda			
Cyphonaute of Membranipora	150		700
Membranacea			

SAMPLING DATA

JANUARY 1966

Station: N. of "Buoy" ScheveningenDate: 10th January 1966

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- | | |
|---|---|
| 1. Hauls | N. of "Buoy" Scheveningen |
| 2. Situation | N. of "Buoy" Scheveningen |
| 3. Weather forecast | Frost clouded sky, snow, wind rather strong, eastern; clouded sky, cold light frost; occasionally |
| 4. Weather conditions, while hauling | Light frost, occasionally sun, wind cold, eastern |
| 5. Time of hauling | sailing 9.45 - 9.55 |
| 6. Distance, while hauling | 480 meter by sailing |
| 7. Temperature, while hauling | of the air -2°C
" " water $3\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, while hauling | direction E xxxx cold wind
force of wind 4m/sec |
| 9. Light, while hauling | on deck 2500 m.a
above the water 2300 m.a
under the seasurface 2100 m.a |
| 10. ix Amount of lighthours | lighthours a day 8.01 |
| 11. Tides | first high water 5.20 |
| 12. Direction streams near Scheveningen, during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 14600 mg/l
Phosphate 0,34 mg/l
Nitrate trace |

LIST OF ORGANISMS

Station: "Buoy" Scheveningen

Date: 10th January 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coscinodiscus concinnus			300
" excentricus	1100	50	2500
" granii	2750	1100	11050
Rhizosolenia sp	100		
2. Protozoa			
Noctiluca miliaris	50	150	100
3. Chaetognatha			
Sagitta setosa	50	50	
4. Coelenterata			
Pleurobrachia pileus (Lanfleur)	26	2	
6. Crustacea			
Copepoda			
Acartia clausi	1300	200	
Centropages hamatus	250		
Temora longicornis	200		
8. Mollusca			
Gastropoda			
Egg Littorina neritoides		50	
Veliger larva in shell of Littorina neritoides	50		50

SAMPLING DATA

JANUARY 1966

Station: S.W. of "Veronica" ScheveningenDate: 10th January 1966

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- | | |
|---|---|
| 1. Hauls | S.W. of "Veronica" Scheveningen |
| 2. Situation | S.W. of "Veronica" Scheveningen |
| 3. Weather forecast | Frost clouded sky, snow; wind rather strong, eastern; clouded sky, cold, light frost; occasionally, sun |
| 4. Weather conditions, while hauling | Partly clouded, sometimes sun, light frost |
| 5. Time of hauling | sailing 13.10 - 13.20 |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | of the air -2°C
0 " water $3\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, while hauling | direction E, cold wind, strong force 4m/sec |
| 9. Light, while hauling | on deck 1640 m.a.
above the water 1800 m.a
under the seasurface 1760 m.a |
| 10. Amount of lighthours | lighthours a day 8.01 |
| 11. Tides | 2nd high water 1740 |
| 12. Direction streams naer Scheveningen, during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 15500 mg/1
Phosphate 0,22 mg/1
Nitrate trace |
- 4 hours before*

SAMPLING DATA

JANUARY 1966

LIST OF ORGANISMS

Station: "Veronica" Scheveningen

Date: 10th January 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coscinodiscus concinnus	100	100	350
" excentricus	1150	1100	3700
" granii	4150	1850	8950
2. Protozoa			
Noctiluca miliaris			39050
3. Chaetognatha			
Sagitta setosa		100	50
4. Coelenterata (Ctenophora)			
Bolinopsis infundibulum	50		
Phialidium hemisphericum		50	
5. Polychaeta			
Tomopteris helgolandica			50
6. Crustacea			
Copepoda			
Acartia clausi		50	150
Centropages hamatus		550	300
Microcalanus pusillus			1100
Temora longicornis		50	150
Euphausiacea			
Thysanoessa sp			50
Mysidacea			
Leptomysis gracilis	50		
7. Ectoprocta			
Cyphonaute Membranipora membranacea			100
8. Mollusca			
Gastropoda			
Veliger larva in shell of Littorina neritoides			50

SAMPLING DATA

FEBRUARY 1966

Station: S.W. "Buoy" ScheveningenDate: 3rd February 1966.

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|--|--|
| 1. Hauls | S.W. "Buoy" Scheveningen |
| 2. Situation | S.W. of "Buoy" Scheveningen |
| 3. Weather forecast | Clouded, locally mist; wind southern moderate to light; temperature above normal |
| 4. Weather conditions, while hauling | Lightly clouded |
| 5. Time of hauling | 11.00 - 11.10 by sailing |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | in the air 7°C
in the water 3°C |
| 8. Winds, while hauling | direction W.
force of wind 1 m/sec |
| 9. Light, while hauling | on deck 1600 m.a
above the sea 1000 m.a.
under the watersurface 600 m.a |
| 10. Lighthours | lighthours a day 9.13 |
| 11. Tides | 2nd high tide 13.07 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analyses of the seawater, near the place of hauling | Chloride 11790 mgr/l
Phosphate 0,36 mgr/l
Nitrate 5 mgr/l |

LIST OF ORGANISMS

Station: S.W. "Buoy" Scheveningen

Date: 3rd February 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coscinodiscus excentricus	250	150	1200
" granii	500	1350	3050
Fragillaria sp			50
Rhizosolenia sp	50		250
2. Protozoa			
Noctiluca miliaris		50	
3. Chaetognatha			
Sagitta setosa		100	50
6. Crustacea			
Copepoda			
Centropages hamatus	100	7	
Microcalanus pusillus			100
Temora longicornis			50
8. Ectoprocta			
Cyphonaute of Membranipora			50
larva membranacea			
9. Echinodermata			
Late stage of branchiolaria	100		
larva Asterias rubens			
10. Egg			
Fish	50	50	100

SAMPLING DATA

FEBRUARY 1966

Station: N.E. "Veronica" ScheveningenDate: 3rd February 1966

-
- | | |
|--|--|
| 1. Hauls | N.E. "Veronica" Scheveningen |
| 2. Situation: | N.E. of "Veronica" |
| 3. Weather forecast | Clouded, locally mist; wind southern moderate to light; temperature above normal |
| 4. Weather conditions, while hauling | Sunny, later on misty |
| 5. Time of hauling | 13.00 - 13.10 by sailing |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | in the air 6°C
in the water 4°C |
| 8. Wind, while hauling | direction W.
force of wind 1 m/sec |
| 9. Light, while hauling | on deck 2000 m.a.
above the sea 1200 m.a
in the water 800 m.a |
| 10. Lighthours | lighthours a day 9.13 |
| 11. Tides | 2nd high tide 13.07 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analyses of the seawater, near the place of hauling | Chloride 12155 mgr/l
Phosphate 0,35 mgr/l
Nitrate 4 mgr/l |

LIST OF ORGANISMS

Station: N.E. "Veronica" Scheveningen

Date: 3rd February 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coccinodiscus concinnus	300	50	50
" excentricus	650	350	350
" granii	8750	2650	2650
Rhizosolonia sp	400		
2. Protozoa			
Noctiluca miliaris			50
3. Chaetognatha			
Sagitta setosa		50	50
4. Polychaeta			
Polychaeta sp		50	50
Late larva of Phyllodoce			100
Free swimming larva of Autolytus			50
5. Nematoda			
Nematoda sp			
6. Crustacea			
Copepoda			
Acartia clausi		50	800
Centropages hamatus		150	200
" typicus			100
Microcalanus pusillus			850
Temora longicornis			100
Mysidacea			
Leptomysis gracilis		100	50
7. Mollusca			
Lamellibranchiata			100
Young larva of Lamellibranchiata sp			
10. Eggs	100		
Fish			900

SAMPLING DATA

MARCH 1966

Station: S.W. of "Veronica" ScheveningenDate: 3rd of March 1966

-
- | | |
|---|--|
| 1. Hauls | S.W. of "Veronica" |
| 2. Situation | S.W. of "Veronica" |
| 3. Weather forecast | Mild weather, rain or drizzle.
Wind moderate between South West
and Southern |
| 4. Weather conditions, while
hauling | Clouded sky |
| 5. Time of hauling | by sailing 13.00 - 13.10 |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | of the air 8°C
of the water 5°C |
| 8. Wind during hauling | direction S.-S.W.
force of wind 4m/sec |
| 9. Light, while hauling | on deck 2800 m.a
above the water: 1200 m.a
in the water: 1200 m.a |
| 10. Lighthours | lighthours a day 10.59 |
| 11. Tides | 1st high tide 11.43 |
| 12. Direction of streams
near Scheveningen during
hauling | |
| 13. Chemical analysis of the
seawater near the place
of hauling | Chloride 15500 mg/l
Phosphate 0,32 mg/k
Nitrate 2 mg/l |

SAMPLING DATA

MARCH 1966

LIST OF ORGANISMS

Station: S.W. "Veronica" Scheveningen

Date: 3rd March 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coscinodiscus concinnus		100	
" excentricus	250	50	800
" granii	400	650	2500
Phaeocystis			50
3. Coelenterata			
Bolinopsis infundibulum			400
Ephyra larva of Aurelia	100	100	
Sarsia tubulosa <i>hy. larva</i>			100
Planktonic larva of Actinia (Actinula larva)		50	100
5. Polychaeta			
Polychaeta sp	50		
7. Crustacea			
Copepoda			
Acartia clausi		1200	100
Centropages hamatus		450	100
Microcalanus pusillus	50		550
Amphipoda			
Hyperia galba			50
Cirripedia			
Nauplius larva Balanus balanoides <i>Lius</i>			250
9. Ectopoda			
Cyphonaute membranipora membranacea			50
10. Mollusca			
Lamellibranchiata			
Young Lamellibranchiata			50
Gastropoda			
Veliger larva of a sp	50		
11. Echinodermata <i>x</i>			
Barrel larva of an Echinoderma sp			50
12. Eggs			
Fish			
Yellow, blueish, translucent, diam 1mm		50	
Whitish not translucent, diam 0,5mm			50
Blackish " " " 0,5mm	150		
surface rough			
Yellow, transparent, hyaline surface	50		
diam 0,8 mm			
<i>J</i> Mvertebrata			
Cluster of three not translucent		150	
yellowish, diam 0,25 mm			
Fish Larva			
Clupea harengus		50	

SAMPLING DATA

MARCH 1966

Station: N.E. of Buoy" ScheveningenDate: 3rd March 1966

-
- | | |
|---|--|
| 1. Hauls | N.E. of "Buoy" Scheveningen |
| 2. Situation | S.E. of "Buoy" Scheveningen |
| 3. Weather forecast | Mild weather, rain or drizzle.
Wind moderate between South-West
and Southern |
| 4. Weather conditions, while
hauling | Clouded sky |
| 5. Time of hauling | by sailing 14.05 - 14.15 |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | of the air 7°C
of the water 5°C |
| 8. Wind during hauling | direction S-Sw.
force of wind 4m/sec |
| 9. Light, while hauling | on deck 2000 m.a.
above the water 1600 m.a.
in the water 2000 m.a |
| 10. Lighthours | lighthours a day 10.59 |
| 11. Tides | 1st high tide 11.43 |
| 12. Direction of streams near
Scheveningen during
hauling | |
| 13. Chemical analysés of the
seawater near the place
of hauling | Chloride 14300 mg/l
Phosphate 0,44 mg/l
Nitrate 3 mg/l |

LIST OF ORGANISMS

Station: N.E. of "Buoy" Scheveningen

Date: 3rd March 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia regia			150
" sinensis			50
Coscidoniscus concinnus			150
" excentricus	50		1250
" granii	600	50	1500
Fragillaria sp			250
Rhizosolenia sp			250
3. Coelenterata			
Actinula larva of Actinia			50
5. Polychaeta			
Fragment of Lepadorhynchus unicatus		50	
6. b. Phoronida			
Actinotrocha larva of Phoronis			150
7. Crustacea			
Copepoda			
Acartia clausi		650	400
Centropages hamatus		100	200
Microcalanus pusillus			5650
Nauplius larva			50
Temora longicornis		350	650
Amphipoda			
Amphipoda sp		50	
Mysidacea			
Leptomysis gracilis		50	
Cirripedia			
Nauplius larva Balanus balanoides			200
9. Ectoprocta			
Cyphonaute membranipora			150
larva membranacea			
10. Mollusca			
Larva of a Gastropode sp			50
11. Echinodermata			
12. Eggs			
Fish			
Yellow, black, translucent diam 1,25mm	450	250	400
Tully translucent eggs, 1,25 mm			300
Arthropoda			
Cluster of three whitish, slightly transparent eggs, diam 0,16 mm			150
Greyish, brown, green, hardy translucent diam 0,1 mm			100
Fish Larva			
Gadus collifabris		50	

SAMPLING DATA

MARCH 1966

Station: W. of "Buoy" ScheveningenDate: 14th of March 1966

-
1. Hauls W. of "Buoy"
 2. Situation W. of "Buoy" Scheveningen
 3. Weather forecast Cold weather, hail occasionally
night frost. Wind western to N.W.
 4. Weather conditions, while
hauling Clouded sky
 5. Time of hauling by sailing 12.15 - 12.30
 6. Distance, while hauling 500 meter by sailing
 7. Temperature, while hauling of the air $6\frac{1}{4}^{\circ}\text{C}$
of the water $5\frac{3}{4}^{\circ}\text{C}$
 8. Wind, during hauling direction of wind W - N.W.
force of wind $4\text{m}/\text{sec}$
 9. Light while hauling on deck 2000 m.a
above the water 1800 m.a.
in the water 1000 m.a
 10. Lighthours lighthours a day 11.44
 11. Tides 1st high tide 8.12
 12. Direction of streams
near Scheveningen during
hauling

 13. Chemical analysis of the Chloride 17600 mg/l
seawater near the place Phosphate 0,13 mg/l
of hauling Nitrate 1 mg/l

LIST OF ORGANISMS

Station: W. of "Buoy" Scheveningen

Date: 14th March 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia sinensis			50
Coscinodiscus concinnus			100
" excentricus	100	50	550
" granii	100		800
Navicula sp			50
Rhizosolenia sp	50		
3. Coelenterata			
Bolinopsis infundibulum (Ctenophora)			50
Ephyra stage in Aurelia aurita			150
5. Polychaeta			
Nereid nectochaeta			300
7. Crustacea			
Copepoda			
Acartia clausi		1800	3400
Centropages hamatus		1250	2950
Microcalanus pusillus			11500
Temora longicornis			300
Cladocera			
Podon sp			50
Amphipoda			
Hyperia galba			50
Cirripedia			
9. Ectoposcta			
Cyphonaute membranipora larva membranacea			50
10. Mollusca			
Lamellibranchiata			
Young Lamellibranchiata			300
11. Echinodermata			
Brachiolaria larva of Asterius rubens			50
Echinopluteus larva			200
12. Eggs			
Fish			
Pleuronectes platessa diam 1.25mm	150	250	200
Platichthys flesus diam 0.9mm	350	400	450
Eggs with embryo			
Pleuronectes platessa	100	600	
Platichthys flesus	200	850	300
Fish Larva			
Pleuronectes platessa		50	

SAMPLING DATAMARCH 1966Station: S.W. of "Veronica" ScheveningenDate: 14th of March 1966

-
- | | |
|---|--|
| 1. Hauls | S.W. of "Veronica" |
| 2. Situation | S.W. of "Veronica" |
| 3. Weather forecast | Cold weather, hail occasionally
night frost. Wind westerly to N.W. |
| 4. Weather conditions, while
hauling | Clouded sky |
| 5. Time of hauling | by sailing 11.15 - 11.30 |
| 6. Distance, while hauling | 500 meter by sailing |
| 7. Temperature, while hauling | of the air $6\frac{1}{2}^{\circ}\text{C}$
of the water $5\frac{1}{4}^{\circ}\text{C}$ |
| 8. Wind, during hauling | direction of wind W - N.W.
force of wind 3 à 4 m/sec |
| 9. Light, while hauling | on deck 1800 m.a.
above the water 2000 m.a.
in the water 1100 m.a. |
| 10. Lighthours | light hours a day 11.44 |
| 11. Tides | 1st high tide 8.12 |
| 12. Direction of streams near
Scheveningen, during
hauling | |
| 13. Chemical analysis of the
seawater near the place
of hauling | Chloride 17000 mg/l
Phosphate 0,16 mg/l
Nitrate 2 mg/l |

SAMPLING DATA

MARCH 1966

LIST OF ORGANISMS

Station S.W. of "Veronica" Scheveningen

Date: 14th March 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Coccinodiscus concinnus			50
" excentricus	100		200
" granii		50	250
Rhizosolenia sp	50	150	100
Thalassiosira sp		50	
2. Protozoa			
Tintinnid sp	50		
3. Coelenterata			
Aglanta digitale			50
Young medusa sp			50
Sarsia sp			50
5. Polychaeta			
Nereid nectochaeta			150
7. Crustacea			
Copepoda			
Acartia clausi	150	1900	18000
Centropages hamatus	50	600	4800
Michocalanus pusillus		200	13500
Temora longicornis		50	
Cyclopoida			
Oncaea venusta			50
Amphipoda			
Hyperia galba			50
Cirripedia			
Nauplius larva Balanus balanoides			200
Late stage " " "			50
8. Salpida			
Oikopleura dioica			50
10. Mollusca			
Lamellibranchiata			
Young Lamellibranchiata	50	50	250
Gastropoda			
Veliger larva late stage			50
11. Echinodermata			
Bipinnaria larva Astropecten			
irregularis			250
Echinopluteus larva			150
12. Eggs			
Fish			
Pleuronectes platessa diam 1.25mm	600	250	300
Platichthys flesus diam 0.9 mm	1400	600	750
<i>fw</i> Vertebrata			
Yellowish, not transparent diam 0.5mm			50
Eggs with embryo			
Pleuronectes platessa	200	350	50
Platichthys flesus	1900	1100	200

SAMPLING DATA

APRIL 1966

Station: S.E. of "Veronica" ScheveningenDate: 12th of April 1966

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- | | |
|---|--|
| 1. Hauls | S.E. of "Veronica" |
| 2. Situation | S.E. of "Veronica" |
| 3. Weather forecast | Strong wind between E. and N.E. |
| 4. Weather conditions, while hauling | Clouded sky |
| 5. Time of hauling | by sailing 14.02 - 14.17 |
| 6. Distance, while hauling | 1600 meter by sailing |
| 7. Temperature, while hauling | of the air $6\frac{1}{2}^{\circ}\text{C}$
of the water $2\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, during hauling | direction N.E.
force wind 3 à 4 m/sec |
| 9. Light while hauling | on deck ship 3750 m.a
above the water 1500 m.a
in the water 1100 m.a |
| 10. Lighthours | lighthours a day 13.46 |
| 11. Tides | 2nd high tide 20.17 |
| 12. Direction of streams near Scheveningen | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 12700 mg/1
Phosphate 0,58 mg/1
Nitrate 3 mg/1 |

SAMPLING DATA

APRIL 1966

Station: S.E. of Buoy" ScheveningenDate: 12th of April 1966

-
- | | |
|---|--|
| 1. Hauls | S.E. of "Buoy" Scheveningen |
| 2. Situation | S.E. of "Buoy" Scheveningen |
| 3. Weather forecast | Strong wind between E. and N.E. |
| 4. Weather conditions, while hauling | Clouded sky |
| 5. Time of hauling | by sailing 14.29 - 14.39 |
| 6. Distance, while hauling | 1600 meter by sailing |
| 7. Temperature, while hauling | of the air $6\frac{1}{2}^{\circ}\text{C}$
of the water $2\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, during hauling | direction N.E.
force of wind 3 à 4 m/sec |
| 9. Light, while hauling | on deck ship 2000 m.a
above the water 750 m.a
in the water 750 m.a |
| 10. Lighthours | lighthours a day 13.46 |
| 11. Tides | 2nd high tide 20.17 |
| 12. Direction of streams near Scheveningen | |
| 13. Chemical analyses of the seawater near the place of hauling | Chloride 15000 mg/l
Phosphate 0,71 mg/l
Nitrate 3mg/l |

APRIL 1966

LIST OF ORGANISMS

Station: S.E. "Buoy" Scheveningen

Date: 12th April 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. B a c i l l a r i o p h y c e a e			
Biddulphia alternans	50		50
" mobiliensis			50
" sinensis			150
Coscinodiscus concinnus			50
" exotricus			300
" granii	50	50	750
Rhizosolenia sp		150	50
Biddulphia regia			200
3. C o e l e n t e r a t a			
Pleurobranchia pileus (in 500 cm ³)	11		
(2-3 mm)	50		
Steenstrupia nutans	50		
4. P o l y c h a e t a			
Larva of a polychaeta sp			50
Polynoid larva nectochaeta			650
Post larva Terebella		50	300
Spionid larva Polychaeta			100
Vases of Terebella		900	400
6. C r u s t a c e a			
C o p e p o d a			
Acartia clausi		500	1350
Centropages hamatus		950	2000
Metanauplius larva	50		50
Microcalanus pusillus	100		2800
Temora longicornis	10	400	250
A m p h i p o d a			
Amphipoda sp	50		
C i r r i p e d i a			
Cyprus late stage of Balanus balanoides		50	50
7. S a l p i d a			
Oikopleura dioica			
8. E c t o p r o c t a			
Cyphonaute Membranipora membranacea			300
9. M o l l u s c a			
Lamellibranchiata			
Spisula solida(0,3mm)			50
11. E g g s			
Fish			
Platichthys flesus(0.75mm diam)			
" " just before hatching			50
Limanda-limanda(0.7mmdiam)			50
E v e r t e b r a t a			
Small dark brown egg(0.25mmdiam)			50
12. F i s h L a r v a e			
Clupea sprattus(long0.6mm)	200	300	150
Clupea harengus(0.66mm long)	50		
Pleuronectes platessa (0.5mm long)		100	

SAMPLING DATA

APRIL 1966

Station: N. of "Veronica" ScheveningenDate: 20th of April 1966

-
- | | |
|---|--|
| 1. Hauls | N. of "Veronica" |
| 2. Situation | N. of "Veronica" |
| 3. Weather forecast | Locally rain, cold; night-frost.
Moderate to strong wind between
N. and N.W. |
| 4. Weather conditions, while
hauling | Grey clouded sky, no sunshine |
| 5. Time of hauling | by sailing 12.15 - 12.30 |
| 6. Distance, while hauling | 3200 meter by sailing |
| 7. Temperature, while hauling | of the air $6,2^{\circ}\text{C}$
of the water $3\frac{1}{2}^{\circ}\text{C}$ |
| 8. Wind, during hauling | direction N-N.N.E
force of wind 2m/sec |
| 9. Light, while hauling | on deck ship 1400 m.a
above the water 1200 m.a
in the water 900 m.a |
| 10. Lighthours | lighthours a day 14.11 |
| 11. Tides | 2nd high tide 15.25 |
| 12. Direction of streams
near Scheveningen | |
| 13. Chemical analysis of the
seawater near the place
of hauling | |

SAMPLING DATA

APRIL 1966

Station: N. of "Veronica" ScheveningenDate: 20th of April 1966

-
- | | |
|---|--|
| 1. Hauls | N. of "Veronica" |
| 2. Situation | N. of "Veronica" |
| 3. Weather forecast | Locally rain, cold; night-frost.
Moderate to strong wind between
N. and N.W. |
| 4. Weather conditions, while
hauling | Grey clouded sky, no sunshine |
| 5. Time of hauling | by sailing 12.15 - 12.30 |
| 6. Distance, while hauling | 3200 meter by sailing |
| 7. Temperature, while hauling | of the air 6,2 ^o C
of the water 3 ¹ / ₂ C |
| 8. Wind, during hauling | direction N-N.N.E
force of wind 2m/sec |
| 9. Light, while hauling | on deck ship 1400 m.a
above the water 1200 m.a
in the water 900 m.a |
| 10. Lighthours | lighthours a day 14.11 |
| 11. Tides | 2nd high tide 15.25 |
| 12. Direction of streams
near Scheveningen | |
| 13. Chemical analysis of the
seawater near the place
of hauling | |

LIST OF ORGANISMS

Station: N. of "Veronica" Scheveningen

Date: 20th of April 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Bellarochia malleus		250	2650
Biddulphia aurita		100	
" mobiliensis	150	3050	7300
" regia		50	
" sinensis		1150	2000
Cerataulina bergonii			1500
Chaetoceros densus ^W		33700	54000
" danicus ^W		2000	3900
Coscinodiscus concinnus			50
" excentricus			200
" granii		150	1000
Eucampia zodiacus	150	2600	73000
Ditylum brightwelli		200	400
*Fragillaria oceanica		450	50
Lauderia borealis		850	1000
Rhizosolenia styliformis	100	32200	723500
" alata		50	1700
Thalassiosira sp		750	
Skeletonema costatum		5850	1950
2. Protozoa			
Noctiluca miliaris			
6. Crustacea			
Copepoda			
Acartia clausi		50	250
Centropages hamatus	50	650	750
Metanauplius larva		100	1000
Microcalanus pusillus		50	1000
Temora longicornis		100	
Cladocera			
Podon leucarti		50	
Cirripedia			
Cypris late stage of Balanus balanoides			150
7. Salpida			
Oikopleura dioica	50	250	600
8. Ectoprocta			
Cyphonautes Membranipora membranacea	50		50
10. Echinodermata			
Bipinnarazia larva of Asterius rubens		50	50
Auricularia larva			50
Ophiopluteus larva		250	50
Young Asterius rubens (1.5mm)		50	
Echinopluteus larva			50
11. Eggs			
Fish		100	
Platichthys flesus just before hatching	300	300	100
Limanda-limanda (0.7mm diam)	400	350	
Dark brown with points not transparent diam 0.5mm			100
Brown egg corrugated not transparent diam 0.5 mm			50
12. Fish Larvae			
Clupea sprattus (0.65mm long)		100	

SAMPLING DATA

MAY 1966

Station: N.E. of "Veronica" Scheveningen.Date: 2nd May 1966

-
- | | |
|---|--|
| 1. Hauls | N.E. of "Veronica" Scheveningen |
| 2. Situation | N.E. of "Veronica" |
| 3. Weather forecast | Sunny weather, slightly clouded.
Locally night frost. Wind light to moderate; eastern to north-eastern. |
| 4. Weather condition, while hauling | Good sunny weather |
| 5. Time of hauling | by sailing 14.35 - 14.50 |
| 6. Distance of hauling | 600 meter by sailing |
| 7. Temperature, while hauling | of the air 26°C
of the water 14°C |
| 8. Wind, during hauling | direction E
force of wind 1m/sec |
| 9. Light, while hauling | on deck: 3000 m.a.
above the water: 3100 m.a.
under the water surface: 1000 m.a. |
| 10. Lighthours | Lighthours a day 14.53 |
| 11. Tides | 2nd high tide 13.21 |
| 12. Direction of streams near Scheveningen | |
| 13. Chemical analyses of the seawater near the place of hauling | Chloride: 13400 mg/l
Phosphate: 0,58 mg/l
Nitrate: 2 mg/l |

SAMPLING DATA

MAY 1966

Station: N.E. of "Veronica" Scheveningen

Date: 2nd May 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. B A C I L L A R I O P H Y C E A E			
Bellerochia malleus		100	150
Biddulphia aurita			100
" mobiliensis		400	600
" sinensis		100	200
Cerataulina bergonii		2100	
Coscinodiscus concinnus		50	100
" excentricus	50		50
" granii			100
Ditylum brightwelli		200	
Eucampia zoodiacus	1900	650	
Fragillaria oceanica			100
Lauderia borealis		100	500
Leptocylindricus danicus	650	2800	
Melosira borreri			550
Rhizosolenia styliformis	1200	24000	
Skeletonema costatum	2300		
Thalassiosira gravida			900
3. P r o t o z o a			
Noctiluca miliaris		50	50
4. P o l y c h a e t a			
Noctochaeta larva Polychaeta sp			100
Polychaeta sp	50	100	50
Spionid larva Polychaeta sp	50		50
5. C r u s t a c e a			
A m p h i p o d a			
Amphipoda sp	100		
Eusires longipes			50
Mysid sp	50		
C l a d o c e r a			
Evadna sp		700	550
Evadna sp with eggs		200	100
Podon sp		450	550
Podon sp with eggs		300	
C o p e p o d a			
Acartia clausi		1350	4100
Centropages hamatus	150	950	3750
Metanauplius Larva			3850
Microcalanus pusillus	100	50	3400
Temora longicornis		1950	4050
G i r r i p e d i a			
Cypris Larva Balanus balanoides			50
Lato cypris Larva "			150
Nauplius larva "			200
D e c a p o d a			
Megalopa Larva Cancer pagurus		50	50
6. M o l l u s c a			
Lamellibranchiata			
Shell of Dosinia sp(0.25mm)			200
" " Mytilus edulis(0.5mm)			100
" " Spisula solida(0.25mm)			550
" " Tellina sp(o.25m)			200
7. E c h i n o d e r m a t a			
Brachiolaria Larva Asterias rubens	50	200	250
Echinopluteus Larva		950	1650
Bipinnaria Larva Asterias rubens		50	

SAMPLING DATA

MAY 1966

Station: N.E. of "Buoy" ScheveningenDate: 2nd May 1966

-
- | | |
|---|---|
| 1. Hauls | N.E. of "Buoy" Scheveningen |
| 2. Situation | N.E. of "Buoy" |
| 3. Weather forecast | Sunny weather, slightly clouded.
Locally nightfrost. Wind light to moderate; eastern to north-eastern. |
| 4. Weather condition, while hauling | Good, sunny weather |
| 5. Time of hauling | by sailing 15.30 - 15.45 |
| 6. Distance of hauling | 600 meter by sailing |
| 7. Temperature, while hauling | of the air 24°C
of the water 14°C |
| 8. Wind, during hauling | direction E.
force of wind 1m/sec |
| 9. Light, while hauling | on deck: 2900 m.a.
above the water: 3100 m.a. |
| 10. Lighthours | lighthours a day 14.53 |
| 11. Tides | 2nd high tide 13.21 |
| 12. Direction of streams near Scheveningen | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 12900 mg/l
Phosphate 0,51 mg/l
Nitrate 2mg/l |
- 2. 15.30 - 15.45*

SAMPLING DATA

MAY 1966

Station: N.E. of "Buoy" ScheveningenDate: 2nd May 1966

-
- | | |
|---|---|
| 1. Hauls | N.E. of "Buoy" Scheveningen |
| 2. Situation | N.E. of "Buoy" |
| 3. Weather forecast | Sunny weather, slightly clouded.
Locally nightfrost. Wind light to moderate; eastern to north-eastern. |
| 4. Weather condition, while hauling | Good, sunny weather |
| 5. Time of hauling | by sailing 15.30 - 15.45 |
| 6. Distance of hauling | 600 meter by sailing |
| 7. Temperature, while hauling | of the air 24°C
of the water 14°C |
| 8. Wind, during hauling | direction E.
force of wind 1m/sec |
| 9. Light, while hauling | on deck: 2900 m.a.
above the water: 3100 m.a.
under the water: 3000 m.a. |
| 10. Lighthours | lighthours a day 14.53 |
| 11. Tides | 2nd high tide 13.21 |
| 12. Direction of streams near Scheveningen | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 12900 mg/l
Phosphate 0,51 mg/l
Nitrate 2mg/l |
- 2 hours of 1966*

SAMPLING DATA

MAY 1966

Station: N.E. of "Buoy" Scheveningen

Date: 2nd May 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Asterioidia japonica			100
Bellerochea malleus		100	400
Biddulphia mobiliensis	250	7100	6350
" sinensis		1600	1950
" regia	50		
Coscinodiscus excentricus			150
" granii		150	
Corataulina bergonii	400	400	2400
Chaetoceros sp			200
Ditylum brightwelli	150	2250	
Eucampia zoodiacus	2050	1250	223600
Lauderia borealis	150	150	1000
Leptocylindricus danicus			550
Rhizosolenia styliformis	44600	6100	142800
Thalassiosira gravida	50	50	50
Skeletonoma costatum	50500	35650	248400
2. Coelenterata <i>Ctenophore</i>			
Pleurobrachia pileus		100	
3. Protozoa			
Noctiluca miliaris		700	100
4. Polychaeta			
Larva of Polychaeta	50		300
Mitraria larva (Owoniidae)		50	
Polychaeta sp			50
Post-larval Polychaeta	50	100	
Spionid Larva			250
5. Crustacea			
Cladocera			
Evadna sp		250	
Evadna sp with eggs		150	
Podon sp		400	150
Copepoda			
Acartia clausi		1250	300
Contropages hamatus		2800	2700
Metanauplius Larva			1200
Microcalanus pusillus	50	150	2000
Temora longicornis	50	1950	1100
Cirripedia			
Late cyprislarva Balanus balanoides			450
Nauplius larva " "			1250
6. Mollusca			
Lamellibranchiata			
Shell of Dosinia sp(0.20mm)			100
" " Spisulxa solida (0.5mm)		50	300
" " Tellina sp(0.16mm)			250
" " Venus sp(0.20mm)			100
7. Echinodermata			
Brachiolaria Larva Asterias rubens			100
Echinopluteus Larva	100	1100	400
Young Asterias rubens(0.5mm)			50

0.06
3.10

TYPES	ABUNDANCE		
	coarse	medium	fine
8. Salpida Oikopleura dioceæ		150	50
9. Ectoprocta Cyphonaute Membrani_pora membranacea(diam 1mm)			50
10. Eggs Fish: Hyaline eggs with dark centra	50	50	100
Limanda limanda(diam 0.7mm)	1050	350	
Platichrys flesus on the point of hatching	500	350	
Platichrys flesus(0.75mmdiam)	150		
<i>M</i> Invertebrata Brown yellow not transparent diam (0.0125 mm)			47200
11. Larva of Fish Clupeus sprattus (6-8mm)			

SAMPLING DATA

JUNE 1966

Station: "S.E. of "Buoy" ScheveningenDate: 3rd June 1966

-
- | | |
|---|---|
| 1. Hauls | S.E. of "Buoy" |
| 2. Situation | S.E. of "Buoy" Scheveningen |
| 3. Weather forecast | Dry weather, sometimes sun; wind light to moderate. North to West |
| 4. Weather conditions, while hauling | Clear sky |
| 5. Time of hauling | By sailing 14.05 - 14.20 |
| 6. Distance, while hauling | By sailing 600 meter |
| 7. Temperature, while hauling | of the air 15 ^o C
in the water 13 ^o C |
| 8. Wind during hauling | Direction: W. to N.
Force of wind 3m/sec |
| 9. Light during hauling | on deck ship 2900m.a
above the water 2000 m.a
under the watersurface 1750 m.a |
| 10. Amount of light hours between sunrise and sunset | lighthours a day 16.27 |
| 11. Tides | second high tide 15.17 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride: 15400 mg/l
Phosphate: 0.58 mg/l
Nitrate: 1 mg/l (1 Brucine) |

SAMPLING DATA

JUNE 1966

LIST OF ORGANISMS

Station: S.E. of "Buoy" Scheveningen

Date: 3rd of June 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia aurita			1500
" mobiliensis	200	60250	41500
" sinensis		1950	16000
Cerataulina bergonii	1500	200	19000
Chaetoceros sp		250	
Coscinodiscus concinnus			1000
" excentricus	50	50	400
" granii	950		850
Ditylum brightwelli		750	200
Eucampia zoodiacus	12800	10050	122500
Lauderia borealis	100	450	500
Leptocylindricus danicus	9200	4850	17000
Rhizosolenia styliformis	22300	49900	1503500
Skeletonema costatum	29650	38350	195000
Thalassiesira gravida		50	6000
Coscinodiscus radiatus			100
2. Protozoa			
Noctiluca miliaris	150	800	2350
Tintinnid sp			100
Vase of Tintinnid			50
3. Coelenterata			
Hybocodon prolifer			150
Phialidium hemisphericum	50		
Pleurobrachia pileus	31	50	
Steenstrupia nutans	100	600	550
5. Polychaeta			
Nereid Nectochaeta			50
Nectochaeta larva of a Polychaeta sp			50
6. Crustacea			
Cladocera: Evadna sp			50
Copepoda			
Acartia clausi		350	
Centropages hamatus		800	
Microcalanus pusillus		100	350
Temora longicornis		300	100
Decapoda			
Zoea larva of Carcinus maenas	250	1900	100
" " Pagurus bernhardus	100		
7. Mollusca			
Lamelli branchiata			
Mactra corallina(0.5mm)		50	
Gastropoda			
Young Gastropoda(0.625mm)			100
8. Echinodermata			
Echinopluteus larva		2100	650
Ophiopluteus		50	
Young Asterius rubens(0.625mm)			50

B. C. C.

TYPES	ABUNDANCE		
	coarse	medium	fine
9. Salpida Oikopleura dioica	200	550	700
10. Eggs Fish			
Limanda limanda	100	600	
Platichthys flesus		550	
Platichthys flesus, on the point of hatching		100	
Solea solea			200
11. Fish Larva			
Larva of Pleuronectes, platessa (4 mm)		50	

SAMPLING DATA

JUNE 1966

Station: S.E. of "Veronica" Scheveningen

Date: 3rd of June 1966

- | | |
|--|---|
| 1. Hauls | S.E. of "Veronica" |
| 2. Situation | S.E. of "Veronica" |
| 3. Weather forecast | Dry weather, sometimes sun; wind light to moderate- North to West |
| 4. Weather conditions, while hauling | Clear sky, with occasional clouds |
| 5. Time of hauling | By sailing 14.55 - 15.10 |
| 6. Distance, while hauling | By sailing 600 meter |
| 7. Temperature, while hauling | of the air 16°C
in the water 12°C |
| 8. Wind during hauling | Direction: W. to N.
Force of wind 3m/sec |
| 9. Light during hauling | on deck ship 2700 m.a.
above the water 2100 m.a
under the watersurface 1750 m.a |
| 10. Amount of light hours between sunrise and sunset | lighthours a day 16.27 |
| 11. Tides | second high tide 15.17 |
| 12. Direction of streams near Scheveningen, during hauling | |

J.L.W.

- | | |
|--|--|
| 13. Chemical analysis of the sea water near the place of hauling | Chloride: 17300 mg/l
Phosphate: 0.22 mg/l
Nitrate: Trace |
|--|--|

LIST OF ORGANISMS

Station: S.E. of "Veronica" Scheveningen

Date: 3rd of June 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia aurita		50	500
" mobiliensis	500	7300	14250
" rhombus		100	100
" sinensis	100	1500	14250
Cerataulina bergonii	600	450	9250
Coscinodiscus concinnus		400	500
" excentricus			200
" granii		300	350
Ditylum brightwelli			500
Eucampia zoodiacus	4500	5400	560
Leptocylindricus danicus	2400	4300	10000
Lithodesmium undulatum	50		
Navicula sp			50
Rhizosolenia styliformis	2000	97900	1100500
Skeletonema costatum	4100	8200	39250
2. Protozoa			
Dinoflagellata sp			100
Noctiluca miliaris	50	800	2450
Tintinnid sp			50
Vase of a Tintinnid			100
3. Coelenterata			
Arachnactis larva of Cerianthus		150	250
Hybocodon prolifer	150	150	300
Phialidium hemisphericum			
Pleurobrachia pileus	500	250	150
Steenstrupia nutans	50		
5. Polychaeta			
Nectochaeta larva of a Polychaeta sp			50
Polychaeta sp			100
6. Crustacea			
Cladocera; Evadna sp		50	
Copepoda			
Acartia clausi		50	50
Centropages hamatus		1350	1300
Microcalanus pusillus		50	2150
Nauplius larva			900
Temora longicornis		350	100
Decapoda			
Zoea larva Carcinus maenas	350		100
7. Mollusca			
Lamellibranchiata			
Cardium echinatum(0.25mm)			50
8. Echinodermata			
Echinopluteus larva	100	950	2950
Ophiopluteus		100	
9. Salpida			
Oikopleura dioica	750	200	2000

TYPES

ABUNDANCE

coarse medium fine

10. Eggs
Fish

Clupea pilchardus		50	
Limanda limanda	1350	300	100
Limanda limanda, on the point of hatching	50	100	
Solea solea	550	200	
Solea solea, on the point of hatching	600	150	
Platichthys flabescens flesus	150		
Platichthys flesus on the point of hatching	600	100	

11. Fish Larva
Early larva of Gadus
merlangys(2mm)

50

SAMPLING DATA

JULY 1966

Station: S.E. of "Buoy" Scheveningen

Date: 1st of July 1966

- | | |
|---|--|
| 1. Hauls | S.E. of "Buoy" Scheveningen |
| 2. Situation | S.E. of "Buoy" indicated on the ma |
| 3. Weather forecast | Dry weather with clouds. Wind light to moderate; western. Night somewhat colder |
| 4. Weather, while hauling | Clear sky |
| 5. Time of hauling | By sailing 13.45 - 14.- |
| 6. Distance, while hauling | By sailing 900 meter |
| 7. Temperature, while hauling | of the air 25°C
in the water 17°C |
| 8. Wind, during hauling | direction: W. to N.
force of the wind 1 à 2m/sec |
| 9. Light, during hauling | on deck ship: 2000 m.a
above the water: 3800m.a
in the water (under the surface) 3600m.a |
| 10. Lighthours on the day of hauling | lighthours a day 16.39 |
| 11. Tides | 2nd high tide 14.14 |
| 12. Direction of streams near Scheveningen during hauling | |

13. Chemical analysis of the sea water near the place of hauling

Chloride: 13800
Phosphate: 0.37
Nitrate: 3

mg/l

SAMPLING DATA

JULY 1966

LIST OF ORGANISMS

Station: S.E. of "Buoy" Scheveningen

Date: 1st of July 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. <u>Bacillariophyceae</u>			
Biddulphia mobiliensis		250	
" sinensis		100	50
Cerataulina bergonii	50		
Coscinodiscus excentricus			150
" granii	200		200
Eucampia zoodiacus	200		50
Rhizosolenia styliformis	100		200
Skeletonema costatum	10000	400	900
2. <u>Protozoa</u>			
Noctiluca miliaris	5650	43300	93400
4. <u>Polychaeta</u>			
Polychaeta sp	50	100	
5. <u>Crustacea</u>			
Cladocora Evadna sp		600	1500
<u>Copepoda</u>			
Acartia clausi		1100	450
Centropages hamatus	50	1050	250
Microcalanus pusillus		100	100
Temora longicornis		1250	50
<u>Decapoda</u>			
Megalopa larva	50		
Carcinus maenas			
Zoea larva			
Carcinus maenas	50	50	
6. <u>Mollusca</u>			
Young Gastropoda			50

SAMPLING DATA

JULY 1966

Station: S.E. of "Veronica" ScheveningenDate: 1st of July 1966

-
- | | |
|---|---|
| 1. Hauls | S.E. of "Veronica" |
| 2. Situation | S.E. of "Veronica" indicated on the map |
| 3. Weather forecast | Dry weather with clouds. Wind light to moderate; western. Night somewhat colder. |
| 4. Weather, while hauling | Clear sky, with occasional clouds |
| 5. By sailing Time of hauling | By sailing 13.05 - 13.15 |
| 6. Distance, while hauling | By sailing 900 meter |
| 7. Temperature, while hauling | in the air 23°C
in the water 16°C |
| 8. Wind, during hauling | W. to N.
force of the wind $\frac{1}{2}$ m/sec |
| 9. Light, during hauling | on deck ship: 3000 m.a
above the water 3800 m.a
in the water (under the surface)
2500 m.a. |
| 10. Lighthours on the day of hauling | lighthours a day 16.39 |
| 11. Tides | 2nd high tide 14.14 |
| 12. Direction of streams near Scheveningen, during hauling | |
| 13. Chemical analysis of the seawater near the place of hauling | Chloride 16100
Phosphate 0.25
Nitrate 2 |

mg/l
4

LIST OF ORGANISMS

Station: S.E. of "Veronica" Scheveningen

Date: 1st of July 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia aurita			50
" mobiliensis	50	200	50
" sinensis	50		
Cerataulina bergonii	1500	350	
Coscinodiscus excentricus			400
" granii		50	750
Eucampia zoodiacus	400	350	50
Lauderia borealis		50	
Rhizosolenia styliformis	2150		1100
Thelassiosira gravida	50	150	
Skeletonema costatum	17150	2100	1100
2. Protozoa			
Noctiluca miliaris	10000	13150	13500
Tintinnid sp	200	450	100
3. Coelenterata			
Actinula larva		50	
Beroë cucumis		150	
Hybocodon prolifer	50	50	
Phialidium hemisphericum	50		
4. Polychaeta			
Polychaeta sp	50		
5. Crustacea			
Cladocora Evadna sp	50	4750	7250
Empty cases of Evadna		200	
Podon sp		100	
Copepoda			
Acartia clausi	450	7500	600
Centropages hamatus	100	3450	1700
Microcalanus pusillus	50	50	1100
Temora longicornis	100	2050	550
Nauplius larva	50		150
Amphipoda			
Amphipoda sp			50
7. Echinodermata			
Echinopluteus larva	200	100	
8. Eggs			
Fish: Transparent egg(diam 0.65mm)			50
Evertebrata: Small brown eggs (diam 0.25 mm)			600
9. Larva			
Fish: Late larva Gadus merlangus	50	50	

DATA SAMPLING

AUGUSTUS 1966

Station: N.W. of "Buoy" ScheveningenDate: 9th of Augustus 1966

-
- | | |
|--|---|
| 1. Hauls | N.W. of "Buoy" Scheveningen |
| 2. Situation | N.W. of "Buoy" Scheveningen |
| 3. Weather forecast | Weather changeable; some rain; Wind moderate to strong; West to South-West. Little change in temperature. |
| 4. Weather conditions while hauling | Clouded sky, occasionally clear. |
| 5. Time of hauling | By sailing 11.30 - 11.45 |
| 6. Distance, while hauling | 900 m. by sailing |
| 7. Temperature while hauling | of the air 20 ^o C
in the water 16 ^o C |
| 8. Wind during hauling | Direction of the wind S.W.
Force of the wind 3 à 4m/sec |
| 9. Light, while hauling | on deck: 3000 m.a
above the water: 1200 m.a
in the water: 1200 m.a. |
| 10. Light hours | light hours a day: 15.04 |
| 11. Tides | 1st high tide 7.34 |
| 12. Direction of stream near Scheveningen during hauling | 4 hours after H.W. |

13. Chemical analysis of the seawater near the place of hauling

Chloride:	14 400	mgr/l
Phosphate:	0.37	" "
Nitrate:	5	" "

SAMPLING DATA

AUGUSTUS 1966

LIST OF ORGANISMS

Station : N.W. of "Buoy" Scheveningen

Date: 9th of Augustus 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. Bacillariophyceae			
Biddulphia alternans			150
" aurita			850
" mobiliensis	1450	3660	236150
" sinensis	450	8700	29650
Chaetoceros sp		200	1800
Cerataulina bergonii	100		
Coscinodiscus concinnus	150	500	5750
" excentricus		1000	750
" granii	200	800	2100
Ditylum brightwellii		800	2000
Eucampia zoodiacus	750	200	1500
Fragillaria sp			100
Lauderia borealis			750
Leptocylindricus danicus	100		
Rhizosolenia alata	350	100	1600
" styliformis	100	300	15500
Skeletonema costatum	1000	1600	7150
Thalassiosira gravida			
2. Protozoa			
Ceratium fusus	50	50	9750
Noctiluca miliaris	50	150	600
Ceratium macroceros		50	
3. Coelenterata			
Arachnactis larva of Cerianthes		50	
Hybocodon prolifer			100
Obelia sp.		100	50
Phialella quadrata			150
Phialidium hemisphericum		100	100
4. Chaetognatha			
Sagitta setosa	200	300	350
5. Polychaeta			
Polychaeta sp	50	50	
Post larval Terebella		150	
6. Crustacea			
Copepoda: Centropages hamatus		200	
Acartia clausi	50		
Temora longicornis		50	
Nauplius larva	50		
Decapoda:			
Larva of Crangon vulgaris		400	
Megalopa larva of Carcinus maenas	400	350	
Zoea larva of Carcinus maenas	1650	600	50
7. Mollusca			
Gastropoda Young Gastropoda sp		50	
8. Echinodermata			
Ophiopluteus larva		100	
Echinopluteus larva		900	400
9. Salpida: Oikopleura divica			50
10. Fish: Larva Clupea sprattus(10mm)	50	100	

SAMPLING DATA AUGUSTUS 1966

Station: E of "Veronica"

Date: 9th of Augustus 1966

- | | |
|---|--|
| 1. Hauls | E of "Veronica" |
| 2. Situation | E. of "Veronica" |
| 3. Weather forecast | Weather changeable; some rain;
Wind moderate to strong; West to
South-west. Little change in
temperature. |
| 4. Weather conditions while
hauling | Clear sky, sometimes clouded |
| 5. Time of hauling | By sailing 12.55 - 13.05 |
| 6. Distance, while hauling | 800 m. by sailing |
| 7. Temperature, while hauling | of the air 19°C
in the water 17°C |
| 8. Wind during hauling | Direction of the wind S.W.
Force of the wind 3 to 4 m/sec |
| 9. Light, while hauling | on deck: 2800 m.a
above the water: 1800 m.a
in the water: 1000 m.a |
| 10. Light hours | lighthouse a day: 15.05 |
| 11. Tides | 1st high tide 7.34 |
| 12. Direction of stream near
Schevæingen during hauling | |
| 13. Chemical analyses of the
seawater near the place
of hauling | Chloride: mgr/l
Phosphate: mgr/l
Nitrate: mgr/l |

SAMPLING DATA

AUGUSTUS 1966

LIST OF ORGANISMS

Station: E. of "Veronica"

Date: 9th of Augustus 1966

TYPES	ABUNDANCE		
	coarse	medium	fine
1. B A C I L L A R I O P H Y C E A E			
Biddulphia alternans			250
" aurita		100	500
" mobiliensis	150	50	42900
" sinensis		400	25000
Chaetoceros decipiens			650
Carataulina bergonii	500	750	3500
Coscinodiscus concinnus		50	13650
" excentricus	50		1900
" granii	50	50	2650
Ditylum brightwelli		200	750
Eucampia zodiacus	500	100	4650
Fragililaria oceanica	50		
Lauderia borealis	50		2250
Leptocylindricus danicus			650
Rhizosolenia alata			2900
" styliformis	300	100	3250
Skeletonema costatum	1050	450	20250
Thalassiosira gravida	50	200	1150
2. P r o t o z o a			
Ceratium fusus			30900
Noctiluca miliaris	50		500
3. C o e l e n t e r a t a			
Arachnactis larva of Cerianthes		100	
Philidium hemisphericum			100
4. C h a e t o g n a t t a			
Sagitta setosa siagusa	200	1150	600
" elegans			50
5. P o l y c h a e t a			
Magellonid larva		50	
Polynoid "	50	50	200
Polychaeta sp	50	550	200
Post larval Terebella	50	150	50
6. C r u s t a c e a			
Amphipoda: Hyperia galba			50
Cladocera: Podon sp		50	100
Copepoda: Acartia clausi		2250	700
Centropages hamatus		1000	950
Microcalanus pusillus			850
Temora longicornis		650	900
Nauplius larva			750
Decapoda: Larva of Crangon vulgaris	50	100	
Megalopa larva Carcinus maenas			1000
" " Pagarus bernhardus	100	150	50
" " Fortunus puber	100		100
Zoea larva Carcinus maenas	2100	3800	
" " Maia squinado		150	
Cirripedia: Cypris larva Balanus balanoides			50
7. M o l l u s c a			
Gastropoda Young Gastropoda		250	250
8. E c t o p r o c t a			
Cypris larva of Membranipora membranacea	150		
9. E s c a l i n o d e r m a t a			
Amphineuridae larva		50	350
Oikopleura dioica		150	900

