



Statlig program for forurensningsovervåking

• Hydrografi/hydrokjemii og
• plankton. Datarapport 2003

Rapport
902/2004

Kystovervåkingsprogrammet

s ft:



NIVA



HAVFORSKNINGSINSTITUTTET



Statlig program for forurensningsovervåking

Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Kystovervåkingsprogrammet

Rapport: 902/2004

TA-nummer: 2026/2004

ISBN-nummer: 82-577-4524-3

Oppdragsgiver: Statens forurensningstilsyn

Utførende institusjon: Norsk institutt for vannforskning

• **Hydrografi/hydrokjemii og plankton. Datarapport 2003**

Rapport 902/2004

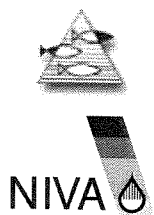
Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Kystovervåkingsprogrammet.
Hydrografi/Hydrokjemii/Plankton. Datarapport 2003.

NIVA prosjektnr. O-23050

NIVA løpenr. 4842/04

Prosjektleder: Jan Magnusson, NIVA

Medarbeidere: Einar Dahl, HFF,
Terje Jåvold, HFF
Lena Omli, HFF
Anita Reisvåg, HFF



Forord

Statens forurensningstilsyn (SFT) ba i 1989 Norsk institutt for vannforskning (NIVA) om å utarbeide et program for langtidsovervåking av tendensen i trofiutviklingen langs kysten av Sør-Norge (Kystovervåkingsprogrammet). Ferdige programforslag forelå våren 1990, og feltarbeidet startet samme år med hydrokjemiske og biologiske undersøkelser (hard- og bløtbunn). Den hydrokjemiske overvåkingen utføres i samarbeid med Havforskningsinstituttet i Bergen (HI) og Havforskningsinstituttets forskningstasjon Flødevigen (HFF).

NIVA har hovedansvaret for gjennomføring av prosjektet og utarbeidelse av rapporter.

For innsamling av vannprøver fra Færder ble Havforskningsinstituttet forskningsfartøy G.M.Dannevig brukt, hvor D. Danielssen var toktleder. Ved Jomfruland har fisker Isaksens Brusen blitt brukt. Ved Arendal har forskningsfartøyet "G.M.Dannevig" blitt brukt, og ved Lista "Brekne". Vi vil takke mannskapet ombord på fartøyene for en fin innsats.

Feltarbeidet er blitt utført Karl Evensen, Langesund og skipper Isaksen (Jomfruland), samt Einar Dahl, Terje Jåvold, Anita Reisvåg og Lena Omli ved Havforskningsinstituttets forskningstasjon Flødevigen (Arendalsstasjonene) og Hans Heimvoll har gjennomført feltarbeidet ved Lista.

Foreliggende rapport er en datarapport med presentasjon av de hydrografiske, hydrokjemiske og planktondata i tabellform.

Oslo den 20.5.2004

Jan Magnusson

Innhold

| | | |
|-----------|---|----------|
| 1. | Formål..... | 4 |
| 2. | Gjennomføring | 4 |
| 3. | Hydrografiske/hydrokjemiske observasjoner 2003 | 8 |
| 3.1. | Færder | 8 |
| 3.2. | Jomfruland | 13 |
| 3.3. | Arendal St. 2 | 18 |
| 3.4. | Arendal St. 3 | 26 |
| 3.5. | Lista | 32 |
| 3.6. | Jomfrulandsrennen | 38 |
| 3.7. | Plantep plankton Arendal st 2 | 41 |
| 3.8. | Zooplankton Arendal st 2..... | 48 |

1. Formål

Kystovervåkingsprogrammet skal gi en oversikt over trofittilstanden og kartlegge utviklingstendenser langs ytre kyst av Sør-Norge.

I 2003 er det gjennomført hydrografiske/hydrokjemiske tokt til 5 hovedstasjoner i kystvannet mellom svenskegrensen og Lista. På stasjonen Arendal St 2 er det i tillegg samlet inn planktonprøver.

Formålet med denne datarapporten er å presentere de hydrografiske/hydrokjemiske observasjonene og planktontellinger fra 2003.

2. Gjennomføring

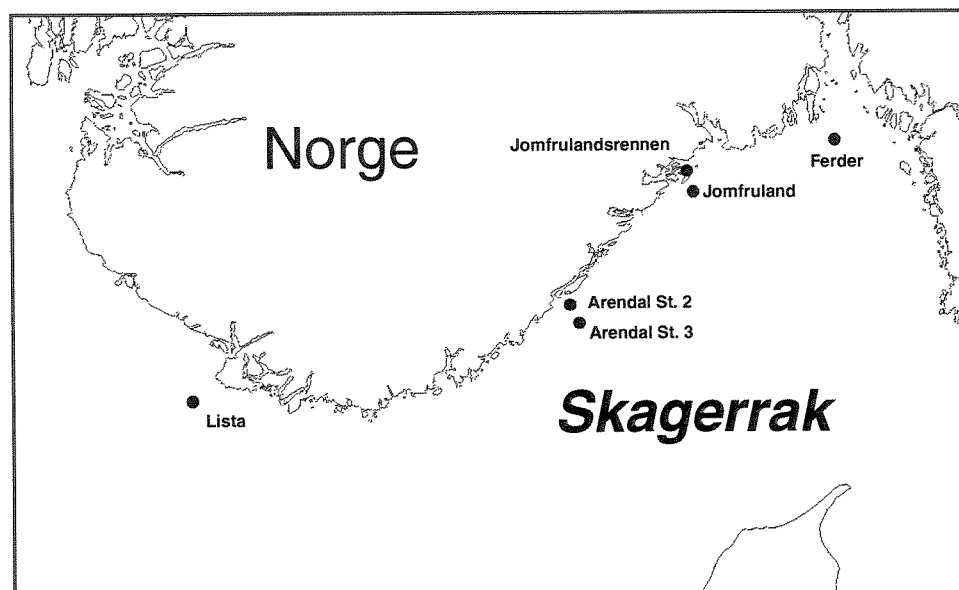
Stasjoner og observasjonsfrekvens fremgår av tabell 1 og figur 1.

I 2003 ble observasjonsfrekvensen fulgt som planlagt. Tabell 2 viser en oversikt over gjennomførte tokt.

Tabell 1. Stasjoner og observasjonsfrekvens i 2003. Hydrografi/-kjemi samles inn på alle stasjoner. I tillegg samles det inn planktonprøver på stasjon Arendal st 2.

| Stasjon | Posisjon | | Dyp | Observasjonsfrekvens |
|---------------|-----------|-----------|-----------|----------------------|
| Færder | N: 58°58' | E: 10°33' | ca. 165 m | 9 ggr. pr år. |
| Jomfruland | N: 58°51' | E: 09°40' | ca. 100 m | Ca. 1 gang pr. måned |
| Arendal st 2. | N: 58°23' | E: 08°49' | ca. 105 m | Ca. hver 14 dag. |
| Arendal st.3. | N: 58°20' | E: 08°54' | ca. 260 m | Ca. 1 gang pr. måned |
| Lista | N: 58°01' | E: 06°32' | ca. 310 m | Ca. 1 gang pr. måned |

I tillegg er det tatt overflateobservasjoner i Jomfrulandsrennen (N: 58°53.5' E: 09°37.0').



Figur 1. Hydrografiske/hydrokjemiske stasjoner i kystovervåkingsprogrammet 2003. Planktonprøver tas på Arendal st 2.

Tabell 2. Gjennomførte tokter i 2003.

| Dato | Færder | Jomfruland | Arendal St 2 | Arendal St 3 | Lista |
|-------|--------|------------|--------------|--------------|-------|
| 07.01 | | | 1 | 1 | |
| 11.01 | | | | | 1 |
| 23.01 | | | 2 | | |
| 30.01 | | 1 | | | |
| 10.02 | | | | | 2 |
| 16.02 | | 2 | | | |
| 17.02 | | | 3 | | |
| 26.02 | 1 | 3 | | | |
| 27.02 | | | 4 | 2 | |
| 16.03 | | 4 | | | |
| 17.03 | | | 5 | 3 | 3 |
| 20.03 | 2 | | | | |
| 26.03 | | 5 | | | |
| 28.03 | | | 6 | | |
| 07.04 | | | | | 4 |
| 09.04 | | 6 | | | |
| 15.04 | | | 7 | 4 | |
| 28.04 | 3 | | | | |
| 05.05 | | | 8 | 5 | |
| 07.05 | | | | | 5 |
| 16.05 | | | 9 | | |
| 21.05 | | 7 | | | |
| 31.05 | | | 10 | | |
| 09.06 | 4 | | | | |
| 10.06 | | | | | 6 |
| 13.06 | | | 11 | 6 | |
| 22.06 | | 8 | | | |
| 01.07 | | | 12 | 7 | |
| 02.07 | | | | | 7 |
| 15.07 | | | 13 | | |
| 22.07 | | 9 | | | |
| 05.08 | | | 14 | | |
| 13.08 | | | | | 8 |
| 18.08 | | | 15 | 8 | |
| 21.08 | 5 | | | | |
| 26.08 | | 10 | | | |
| 10.09 | | | | | 9 |
| 12.09 | | | 16 | 9 | |
| 18.09 | | | 17 | | |
| 24.09 | 6 | 11 | | | |
| 03.10 | | | 18 | | |
| 13.10 | | | | | 10 |
| 17.10 | | | 19 | 10 | |
| 20.10 | 7 | 12 | | | |
| 01.11 | | | 20 | | |
| 08.11 | | | | | 11 |
| 13.11 | | | 21 | 11 | |
| 17.11 | | 13 | | | |
| 24.11 | 8 | | | | |
| 07.12 | | | 22 | 12 | |
| 08.12 | | | | | 12 |
| 09.12 | 9 | 14 | | | |

Enkelte parametre ble kun analysert på et begrenset antall dyp. I felt ble vann til nærings salt-analyser filtrert gjennom en zooplanktonduk med maskevidde på 180 µm.

Samtlige analyser av TSM er gjennomført ved NIVA. Øvrige analyser er gjennomført ved HFF (Færder, Arendal St 2 og 3 samt Lista) og NIVA (Jomfruland), unntatt partikulært karbon og nitrogen ved Arendal St. 2, Arendal St. 3 og Lista, som ble analysert av Havforskningsinstituttet i Bergen. For en beskrivelse av analysemetoder henvises til 10-årsrapporten (Moy m.fl. 2002, TA-1883/2002).

Tabell 3 viser observerte variable på de ulike stasjonene i 2003 og tabell 4 viser observasjonsdyp.

Tabell 3. Oversikt av observasjoner på de ulike stasjoner i 2003:

| Stasjon/parameter | Færder | Jomfrulands rennen | Jomfruland | Arendal St. 2 | Arendal St. 3 | Lista |
|--|--------|-----------------------|------------|------------------|------------------|-------|
| Temperatur | x | x | x | x | x | x |
| Saltholdighet | X | x | x | x | x | x |
| Oksygen | X | | x | x | x | |
| Tot-P | X | x | x | x | x | x |
| PO ₄ -P | X | | x | x | x | x |
| POP | X | | x | x | x | x |
| Tot-N | X | x | x | x | x | x |
| NO ₃ -N+ NO ₂ -N | | | x | | | |
| NO ₃ -N | X | | | x | x | x |
| NO ₂ -N | X | | | x | x | x |
| NH ₄ -N | | | x | x | | |
| PON | X | | x | x | x | x |
| Si ₂ O ₃ -Si | X | | x | x | x | x |
| POC | X | | x | x | x | x |
| TSM | | | x | x | x | |
| Kl-a | X | | x | x | x | x |
| Siktdyp | X | x | x | x | x | x |
| Gulstoff(Ay380) | | | x | | | |
| Plantep plankton | | | | x | | |
| Zooplankton | | | | x | | |

Tabell 4. Observasjonsdyp.

| Stasjon | Færder | Jomfruland | Arendal St. 2 | Arendal St. 3 | Lista |
|---------|---|---|----------------------------------|-----------------------------|---|
| Dyp | 0, 5, 10, 15, 20, 30, 50, 75, 100, 125, 150 | 0, 5, 10, 15, 20, 30, 50, 75, 100 | 0, 5, 10, 15, 20, 30, 50, 75. | 100, 125, 150, 200, 240* | 0, 5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300 |

* bare observasjoner i kystovervåkingsprogrammet fra 100-240 meters dyp. Øvrige observasjoner (0-75m) fra denne stasjonen er fra Havforskningsinstituttets eget program.

Planktonprøver tas fra vannprøvene fra 0-30m dyp.

For observasjoner av saltholdighet og temperatur er det brukt SEACAT CTD (SEABIRD) på Jomfruland, og Gytresonde (Sensordata) på Lista. På Arendalstasjonene og Færder er det som regel brukt Neil Brown CTD (Mark III).

Kvaliteten på CTD-sonder varierer og hver sonde må kontrolleres jevnlig. SEACAT-sonden blir kontrollert dels ved normale rutiner, men også ved at det gjennomføres prøvetaking med vendetermometre og analyseres på saltholdighet på de to nederste vannhenterdypene (75 og 100 meters dyp). På Lista gjennomføres samme prosedyre på saltholdighet, for å kontrollere Gytresonden (Sensordata).

Der hvor det er foretatt saltanalyser på Jomfruland (75 og 100 m) er disse resultatene presentert i tabellen, øvrige dyp er observasjoner fra CTD.

Havforskningsinstituttet Forskningstasjonen Flødevigen (HFF) og Norsk institutt for vannforskning (NIVA) deltok i kvalitetssikringsprogrammet Quasimeme 2 ganger i 2003 (Runde 32 og 34). Det ble analysert på saltholdighet, tot-P, tot-N, nitrat, nitrit, ammonium, fosfat og silikat, både lave og høye konsentrasjoner. Resultatet var for samtlige analyser meget bra.

3. Hydrografiske/hydrokjemiske observasjoner 2003

3.1. Færder

| Stasjon: Færder | | Dato: 26.02.2003 | | Tid (UTC): 08:39 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 159 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 0.34 | 26.058 | 9.09 | 0.63 | 0.36 | 21.0 | 5.2 | 5.2 | 16.3 | 2.7 | 0.17 | 8.1 | | |
| 5 | 0.42 | 26.944 | 8.64 | 0.72 | 0.42 | 18.6 | 6.5 | 6.5 | 17.0 | 3.1 | 0.20 | 9.7 | | |
| 10 | 1.94 | 29.247 | 8.15 | 0.82 | 0.57 | 21.9 | 9.2 | 9.2 | 10.4 | 1.9 | 0.17 | 4.5 | | |
| 20 | 2.78 | 30.800 | 7.64 | 0.96 | 0.66 | 23.1 | 11.6 | 11.6 | 7.6 | 1.2 | 0.09 | 1.2 | | |
| 30 | 4.25 | 32.396 | 7.02 | 0.89 | 0.70 | 22.1 | 11.8 | 11.8 | 8.9 | 6.7 | 1.4 | 0.07 | | |
| 50 | 5.43 | 33.506 | 6.78 | 0.80 | 0.68 | 19.9 | 9.4 | 9.4 | 6.9 | | | | | |
| 75 | 5.21 | 34.447 | 6.96 | 0.83 | 0.61 | 14.2 | 6.2 | 6.2 | 4.7 | | | | | |
| 100 | 5.39 | 34.545 | 6.93 | 0.83 | 0.63 | 14.6 | 6.2 | 6.2 | 4.6 | 7.3 | 0.7 | 0.06 | | |
| 125 | 5.55 | 34.589 | 6.85 | 0.83 | 0.66 | 14.4 | 6.6 | 6.6 | 4.8 | | | | | |
| 150 | 5.74 | 34.652 | 6.75 | 0.87 | 0.70 | 16.2 | 7.2 | 7.2 | 5.3 | | | | | |

| Stasjon: Færder | | Dato: 20.03.2003 | | Tid (UTC): 07:08 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 158 | | Siktdyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 2.33 | 21.562 | 9.18 | 0.40 | 0.16 | 24.8 | 3.5 | 3.5 | 4.5 | 17.5 | 2.5 | 0.11 | 1.0 | |
| 5 | 3.23 | 30.056 | 11.31 | 0.35 | 0.10 | 11.6 | 0.2 | 0.2 | 0.1 | 12.1 | 3.0 | 0.15 | 4.5 | |
| 10 | 3.43 | 31.110 | 10.18 | 0.50 | 0.09 | 15.8 | 0.2 | 0.2 | 0.1 | 20.1 | 4.2 | 0.23 | 10.9 | |
| 20 | 4.17 | 33.700 | 7.38 | 0.79 | 0.63 | 22.0 | 9.5 | 9.5 | 3.8 | 11.7 | 2.1 | 0.12 | 3.8 | |
| 30 | 4.29 | 33.958 | 7.25 | 0.80 | 0.60 | 21.8 | 9.9 | 9.9 | 4.8 | 10.0 | 2.0 | 0.11 | 2.1 | |
| 50 | 4.51 | 34.131 | 7.12 | 0.70 | 0.60 | 20.2 | 9.2 | 9.2 | 4.8 | | | | 1.1 | |
| 75 | 4.91 | 34.322 | 6.86 | 0.76 | 0.69 | 16.0 | 8.2 | 8.2 | 5.2 | | | | | |
| 100 | 5.11 | 34.394 | 6.74 | 0.82 | 0.69 | 19.1 | 7.7 | 7.7 | 5.3 | 11.1 | 1.1 | 0.07 | | |
| 125 | 5.31 | 34.445 | 6.73 | 0.80 | 0.70 | 17.8 | 8.0 | 8.0 | 5.7 | | | | | |
| 150 | 5.61 | 34.612 | 6.56 | 0.93 | 0.75 | 17.9 | 9.0 | 9.0 | 6.1 | | | | | |

| Stasjon: Færder | | Date: 28.04.2003 | | Tid (UTC): 03:51 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 160 | | Siktdyp (m): 10 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 6.64 | 21.878 | 7.67 | 0.44 | 0.06 | 23.1 | 0.3 | 0.8 | 8.8 | 4.9 | 0.23 | 2.4 | | |
| 5 | 6.61 | 22.029 | 7.67 | 0.45 | 0.07 | 17.4 | 0.2 | 0.8 | 10.4 | 3.1 | 0.14 | 2.2 | | |
| 10 | 5.06 | 27.752 | 8.02 | 0.36 | 0.07 | 14.5 | 1.3 | 0.3 | 13.7 | 2.2 | 0.10 | 1.4 | | |
| 20 | 4.78 | 31.545 | 7.57 | 0.38 | 0.14 | 16.7 | 4.6 | 0.5 | 7.1 | 2.2 | 0.12 | 2.3 | | |
| 30 | 4.78 | 31.923 | 7.45 | 0.39 | 0.18 | 16.4 | 4.5 | 0.7 | 7.2 | 1.6 | 0.06 | 0.7 | | |
| 50 | 5.67 | 34.449 | 6.79 | 0.76 | 0.59 | 17.3 | 6.5 | 2.5 | | | | | | |
| 75 | 6.20 | 34.923 | 6.45 | 0.87 | 0.73 | 15.9 | 8.2 | 3.2 | | | | | | |
| 100 | 6.24 | 34.990 | 6.36 | 0.94 | 0.79 | 19.3 | 9.4 | 4.2 | 10.6 | 1.0 | 0.05 | | | |
| 125 | 6.29 | 35.042 | 6.27 | 1.02 | 0.84 | 32.8 | 9.6 | 5.6 | | | | | | |
| 150 | 6.49 | 35.117 | 6.32 | 1.04 | 0.82 | 23.0 | 9.0 | 5.2 | | | | | | |

| Stasjon: Færder | | Date: 09.06.2003 | | Tid (UTC): 06:24 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 158 | | Siktdyp (m): 6 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 15.29 | 22.789 | 6.44 | 0.44 | 0.08 | 23.5 | 0.3 | 0.2 | 30.0 | 5.0 | 0.25 | 1.2 | | |
| 5 | 15.28 | 22.809 | 6.51 | 0.43 | 0.04 | 15.5 | 0.2 | 0.2 | 24.4 | 4.2 | 0.23 | 1.3 | | |
| 10 | 15.22 | 23.251 | 6.71 | 0.44 | 0.07 | 15.0 | 0.2 | 0.2 | 27.2 | 4.6 | 0.22 | 2.3 | | |
| 20 | 10.59 | 32.271 | 6.26 | 0.51 | 0.08 | 22.1 | 4.5 | 0.4 | 21.0 | 5.1 | 0.29 | 2.2 | | |
| 30 | 10.34 | 33.038 | 6.51 | 0.45 | 0.07 | 19.2 | 5.1 | 0.4 | 13.8 | 3.7 | 0.17 | 1.2 | | |
| 50 | 9.23 | 33.658 | 6.16 | 0.38 | 0.14 | 16.7 | 2.3 | 1.6 | | | | | | |
| 75 | 8.71 | 34.741 | 6.38 | 0.47 | 0.23 | 9.6 | 0.1 | 0.5 | | | | | | |
| 100 | 7.41 | 34.931 | 6.29 | 0.64 | 0.44 | 12.5 | 3.3 | 2.1 | 4.6 | 2.0 | 0.13 | | | |
| 125 | 7.04 | 35.015 | 6.14 | 0.74 | 0.61 | 16.1 | 4.1 | 3.4 | | | | | | |
| 150 | 6.95 | 35.042 | 6.02 | 0.81 | 0.69 | 18.9 | 5.5 | 4.1 | | | | | | |

| Stasjon: Færder | | Dato: 21.08.2003 | | Tid (UTC): 05:58 | | Posisjon: N: 58° 58' E: 10° 33' | | | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|---------------------------------|-----------|-------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 158 | | Siktedyb (m): 5 | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 17.82 | 30.736 | 5.36 | 0.37 | 0.15 | 12.6 | 0.3 | | 2.3 | | 2.9 | 0.17 | | 1.2 |
| 5 | 17.78 | 30.917 | 5.35 | 0.37 | 0.06 | 11.6 | 0.2 | | 1.6 | 10.1 | 3.2 | 0.16 | | 1.7 |
| 10 | 18.31 | 33.190 | 4.84 | 0.40 | 0.10 | 10.9 | 0.2 | | 2.1 | 6.8 | 2.4 | 0.14 | | 1.7 |
| 20 | 17.64 | 33.942 | 5.09 | 0.37 | 0.11 | 11.1 | 0.3 | | 1.7 | 4.2 | 1.3 | 0.08 | | 0.7 |
| 30 | 16.38 | 34.105 | 5.27 | 0.38 | 0.12 | 11.1 | 0.1 | | 1.3 | | 1.4 | 0.08 | | 0.5 |
| 50 | 13.87 | 34.124 | 4.82 | 0.56 | 0.34 | 17.0 | 3.2 | | 5.9 | | | | | 0.2 |
| 75 | 10.85 | 34.536 | 5.48 | 0.49 | 0.28 | 10.1 | 1.3 | | 2.1 | | | | | |
| 100 | 8.82 | 34.802 | 5.40 | 0.64 | 0.47 | 14.7 | 2.6 | | 3.7 | 5.7 | 1.1 | 0.07 | | |
| 125 | 8.39 | 34.919 | 5.36 | 0.74 | 0.58 | 14.6 | 4.6 | | 3.9 | | | | | |
| 150 | 8.25 | 34.988 | 5.12 | 0.86 | 0.73 | 14.8 | 7.5 | | 6.2 | | | | | |

| Stasjon: Færder | | Dato: 24.09.2003 | | Tid (UTC): 17:39 | | Posisjon: N: 58° 58' E: 10° 33' | | | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|---------------------------------|-----------|-------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 158 | | Siktedyb (m): | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 15.16 | 25.667 | 6.11 | 0.56 | 0.21 | 24.4 | 0.3 | | 1.8 | 26.8 | 6.2 | 0.32 | | 3.5 |
| 5 | 15.16 | 25.900 | 5.96 | 0.46 | 0.03 | 15.6 | 0.1 | | 1.5 | 19.6 | 4.2 | 0.25 | | 2.4 |
| 10 | 15.35 | 29.540 | 5.73 | 0.40 | 0.05 | 15.1 | 0.1 | | 1.3 | 16.0 | 3.6 | 0.16 | | 1.6 |
| 20 | 15.86 | 32.097 | 5.56 | 0.35 | 0.03 | 12.3 | 0.2 | | 1.3 | 9.7 | 2.1 | 0.10 | | 1.0 |
| 30 | 15.74 | 32.869 | 5.52 | 0.33 | 0.02 | 13.3 | 0.2 | | 1.3 | 8.8 | 2.1 | 0.11 | | 0.6 |
| 50 | 15.31 | 33.139 | 5.37 | 0.34 | 0.12 | 11.1 | 0.6 | | 1.7 | | | | | 0.2 |
| 75 | 12.84 | 33.527 | 5.11 | 0.57 | 0.29 | 13.5 | 2.7 | | 3.7 | | | | | |
| 100 | 10.99 | 33.897 | 5.14 | 0.68 | 0.43 | 17.1 | 4.0 | | 4.7 | 6.0 | 1.5 | 0.10 | | |
| 125 | 9.83 | 34.026 | 5.25 | 0.74 | 0.48 | 17.0 | 5.0 | | 5.1 | | | | | |
| 150 | 8.95 | 34.165 | 5.12 | 0.85 | 0.56 | 16.2 | 5.3 | | 5.4 | | | | | |

| Stasjon: Færder | | Dato: 20.10.2003 | | Tid (UTC): 06:10 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 157 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 11.69 | 30.749 | 6.24 | 0.42 | 0.10 | 17.0 | 0.3 | 0.4 | 0.4 | 17.1 | 3.6 | 0.19 | 3.2 | 3.2 |
| 5 | 12.00 | 30.870 | 6.22 | 0.38 | 0.21 | 13.9 | 0.2 | 0.8 | 0.8 | 14.7 | 3.4 | 0.18 | 4.3 | 4.3 |
| 10 | 12.03 | 30.904 | 6.17 | 0.38 | 0.16 | 15.6 | 0.2 | 0.8 | 0.8 | 15.0 | 3.7 | 0.18 | 4.0 | 4.0 |
| 20 | 14.37 | 33.102 | 5.54 | 0.41 | 0.14 | 15.2 | 0.7 | 1.8 | 1.8 | 7.8 | 1.9 | 0.09 | 1.0 | 1.0 |
| 30 | 13.63 | 33.770 | 5.57 | 0.43 | 0.17 | 17.2 | 0.6 | 2.2 | 2.2 | 8.1 | 3.1 | 0.14 | 0.6 | 0.6 |
| 50 | 13.79 | 34.296 | 5.52 | 0.42 | 0.22 | 11.5 | 0.7 | 2.8 | 2.8 | | | | 0.3 | 0.3 |
| 75 | 12.25 | 34.760 | 5.10 | 0.57 | 0.38 | 11.8 | 2.7 | 3.3 | 3.3 | | | | | |
| 100 | 9.00 | 34.950 | 4.93 | 0.96 | 0.78 | 17.6 | 8.3 | 6.6 | 6.6 | 6.0 | 1.9 | 0.10 | | |
| 125 | 8.60 | 35.064 | 5.01 | 1.05 | 0.84 | 18.3 | 9.2 | 6.2 | 6.2 | | | | | |
| 150 | 8.38 | 35.105 | 5.13 | 1.08 | 0.85 | 18.7 | 9.9 | 6.0 | 6.0 | | | | | |

| Stasjon: Færder | | Dato: 24.11.2003 | | Tid (UTC): 09:51 | | Posisjon: N: 58° 58' | | E: 10° 33' | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 157 | | Siktdyp (m): 11 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.43 | 27.369 | 6.96 | 0.78 | 0.44 | 27.9 | 3.4 | 5.8 | 5.8 | 15.4 | 1.4 | 0.07 | 0.5 | 0.5 |
| 5 | 7.40 | 27.423 | 6.90 | 0.50 | 0.30 | 17.0 | 3.5 | 5.8 | 5.8 | 8.3 | 1.4 | 0.08 | 0.5 | 0.5 |
| 10 | 7.23 | 27.806 | 6.73 | 0.49 | 0.30 | 15.2 | 3.2 | 5.3 | 5.3 | 7.6 | 1.2 | 0.07 | 0.4 | 0.4 |
| 20 | 9.74 | 32.731 | 6.29 | 0.56 | 0.37 | 11.9 | 3.1 | 4.8 | 4.8 | 6.5 | 1.2 | 0.05 | 0.4 | 0.4 |
| 30 | 10.01 | 33.949 | 6.25 | 0.51 | 0.33 | 11.5 | 2.3 | 3.7 | 3.7 | 9.5 | 1.0 | 0.04 | 0.3 | 0.3 |
| 50 | 10.12 | 34.226 | 6.22 | 0.50 | 0.34 | 13.3 | 2.1 | 3.3 | 3.3 | | | | 0.3 | 0.3 |
| 75 | 10.45 | 34.437 | 6.14 | 0.49 | 0.33 | 12.7 | 2.2 | 3.3 | 3.3 | | | | | |
| 100 | 10.51 | 34.590 | 5.98 | 0.51 | 0.36 | 11.4 | 3.2 | 3.5 | 3.5 | 7.8 | 0.8 | 0.03 | | |
| 125 | 10.05 | 34.846 | 5.47 | 0.72 | 0.57 | 15.2 | 5.8 | 4.9 | 4.9 | | | | | |
| 150 | 9.79 | 34.914 | 5.30 | 0.80 | 0.65 | 14.8 | 6.8 | 5.6 | 5.6 | | | | | |

Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Hydrografi/-kjemi/plankton. Datarapport 2003.

| Stasjon: Færder | | Dato: 09.12.2003 | | Tid (UTC): 16:44 | | Posisjon: N: 58° 58' E: 10° 33' | | | | | | | |
|--------------------|--------|------------------|---------|------------------|-------|---------------------------------|-------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 159 | | Siktedyp (m): | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 6.75 | 28.882 | 7.04 | 0.71 | 0.52 | 20.4 | 4.3 | 6.8 | 8.5 | 1.4 | 0.08 | | 1.0 |
| 5 | 7.10 | 29.293 | 7.02 | 0.71 | 0.49 | 14.4 | 4.2 | 6.6 | 5.7 | 1.1 | 0.07 | | 0.8 |
| 10 | 7.63 | 29.725 | 6.91 | 0.69 | 0.49 | 14.5 | 3.3 | 5.5 | 6.1 | 1.3 | 0.06 | | 0.4 |
| 20 | 9.12 | 32.787 | 6.49 | 0.67 | 0.48 | 13.0 | 3.5 | 4.4 | 4.0 | 1.1 | 0.06 | | 0.4 |
| 30 | 9.66 | 33.775 | 6.07 | 0.66 | 0.48 | 13.1 | 3.6 | 3.9 | 3.6 | 0.9 | 0.04 | | 0.2 |
| 50 | 10.06 | 34.493 | 5.95 | 0.60 | 0.44 | 11.2 | 3.8 | 4.1 | | | | | 0.2 |
| 75 | 9.65 | 34.780 | 5.51 | 0.76 | 0.61 | 14.2 | 5.1 | 4.6 | | | | | |
| 100 | 9.34 | 35.002 | 5.64 | 0.74 | 0.65 | 14.2 | 6.7 | 4.8 | 4.6 | 0.8 | 0.05 | | |
| 125 | 8.96 | 35.093 | 5.29 | 0.95 | 0.82 | 15.9 | 8.8 | 6.6 | | | | | |
| 150 | 8.87 | 35.108 | 5.26 | 1.00 | 0.87 | 15.7 | 9.5 | 6.4 | | | | | |

3.2. Jomfruland

| Stasjon: Jomfruland | | Dato: 30.01.2003 | | Tid (UTC): 11:45 | | Posisjon: N: 58° 51' E: 9° 40' | | Institutt: NIVA | | Ekkodyp (m): 129 | | Siktedyb (m): 8 | | Siktefarge: | | |
|---------------------|-----|------------------|----------------------|------------------|-----------|--------------------------------|------------|-----------------|------------|------------------|----------|-----------------|----------|-------------|-------------|-------------|
| Skjup: Brusen | Dyp | Temp (°C) | Saltholdighet (ml/l) | Oksygen (µM) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) | Ay380 (m-1) |
| | 0 | 1.63 | 27.825 | 7.31 | 0.87 | 0.65 | 22.5 | 9.2 | 1.0 | 8.4 | 25.6 | 3.9 | 0.08 | 1.33 | 0.3 | <0.64 |
| | 5 | 1.95 | 28.972 | 7.29 | 1.55 | 1.29 | 27.5 | 9.6 | 1.1 | 8.6 | 40.3 | 5.7 | 0.09 | 1.77 | 0.3 | <0.74 |
| | 10 | 2.24 | 29.628 | 7.13 | 1.36 | 1.10 | 32.1 | 9.9 | 1.4 | 7.9 | 51.4 | 6.6 | 0.11 | 2.15 | 0.3 | <0.82 |
| | 20 | 3.03 | 30.983 | 6.99 | 1.36 | 1.10 | 35.0 | 9.9 | 1.4 | 7.9 | 48.5 | 6.8 | 0.11 | 2.08 | 0.3 | <1.08 |
| | 30 | 3.09 | 31.061 | 6.92 | 0.94 | 0.71 | 17.9 | 9.4 | 0.8 | 8.3 | 13.2 | 1.5 | 0.06 | 0.80 | 0.3 | <0.33 |
| | 50 | 4.27 | 32.377 | 6.73 | 0.90 | 0.71 | 16.4 | 9.2 | 0.4 | 7.7 | 75.5 | 8.5 | 0.13 | 2.45 | 0.3 | <0.19 |
| | 75 | 4.43 | 32.903 | 6.67 | 1.13 | 0.87 | 32.5 | 9.4 | 1.0 | 6.8 | 75.5 | 8.5 | 0.13 | 2.45 | 0.61 | 0.61 |
| | 100 | 5.89 | 34.160 | 6.19 | 1.07 | 0.81 | 15.4 | 9.0 | <0.4 | 6.7 | 75.5 | 8.5 | 0.13 | 2.45 | 0.3 | 0.05 |

| Stasjon: Jomfruland | | Dato: 16.02.2003 | | Tid (UTC): 12:30 | | Posisjon: N: 58° 51' E: 9° 40' | | Institutt: NIVA | | Ekkodyp (m): 11 | | Siktedyb (m): 11 | | Siktefarge: | | |
|---------------------|-----|------------------|----------------------|------------------|-----------|--------------------------------|------------|-----------------|------------|-----------------|----------|------------------|----------|-------------|-------------|-------------|
| Skjup: Brusen | Dyp | Temp (°C) | Saltholdighet (ml/l) | Oksygen (µM) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) | Ay380 (m-1) |
| | 0 | 1.21 | 27.397 | 7.83 | 1.26 | 0.84 | 30.3 | 8.4 | 1.8 | 8.6 | 92.4 | 11.5 | 0.37 | 4.63 | 1.1 | 0.59 |
| | 5 | 1.27 | 27.574 | 7.81 | 0.97 | 0.65 | 30.0 | 8.1 | 0.9 | 8.6 | 42.7 | 8.9 | 0.16 | 2.69 | 1.1 | 0.58 |
| | 10 | 1.66 | 28.519 | 7.64 | 1.13 | 0.71 | 28.6 | 8.6 | 1.5 | 8.4 | 58.2 | 9.0 | 0.33 | 2.88 | 2.1 | 0.53 |
| | 20 | 2.86 | 31.501 | 7.15 | 1.10 | 0.81 | 29.6 | 12.1 | 1.4 | 10.7 | 49.2 | 6.4 | 0.15 | 1.89 | 0.6 | 0.49 |
| | 30 | 3.26 | 32.159 | 6.97 | 1.13 | 0.81 | 32.1 | 13.6 | 2.4 | 11.0 | 66.7 | 9.4 | 0.26 | 2.28 | 0.3 | <0.51 |
| | 50 | 5.04 | 34.194 | 6.53 | 1.07 | 0.74 | 23.2 | 7.5 | 0.9 | 5.8 | 66.6 | 10.0 | 0.22 | 2.57 | 0.3 | <0.24 |
| | 75 | 5.49 | 34.528 | 6.50 | 1.10 | 0.77 | 30.3 | 6.9 | 1.4 | 5.4 | 66.6 | 10.0 | 0.22 | 2.57 | 0.3 | 0.36 |
| | 100 | 5.59 | 34.611 | 6.49 | 1.03 | 0.77 | 19.6 | 6.9 | 0.7 | 5.0 | 66.6 | 10.0 | 0.22 | 2.57 | 0.3 | 0.30 |

| Stasjon: Jomfruland | | Dato: 26.02.2003 | | Tid (UTC): 12:25 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|--------------------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 134 | | Siktedyb (m): 4.25 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 1.05 | 28.160 | 8.84 | 0.55 | 0.10 | 20.7 | 1.8 | <0.4 | 0.5 | 50.9 | 8.2 | 0.39 | 1.71 | 8.4 | 0.55 |
| 5 | 1.34 | 28.200 | 8.94 | 0.55 | 0.06 | 20.0 | 0.4 | <0.4 | <0.1 | 68.2 | 11.0 | 0.46 | 2.08 | 12.0 | 0.42 |
| 10 | 1.52 | 28.766 | 8.48 | 0.58 | 0.19 | 25.4 | 2.6 | 0.4 | 0.6 | 66.5 | 11.9 | 0.41 | 2.24 | 8.7 | 0.42 |
| 20 | 2.57 | 30.927 | 7.23 | 0.90 | 0.74 | 29.6 | 11.1 | 1.1 | 9.2 | 49.3 | 10.0 | 0.09 | 1.33 | 1.0 | 0.28 |
| 30 | 3.51 | 32.472 | 6.89 | 0.97 | 0.84 | 33.9 | 12.5 | 1.4 | 9.8 | 59.4 | 12.1 | 0.09 | 1.96 | 0.3 | 0.28 |
| 50 | 4.69 | 34.190 | 6.69 | 0.87 | 0.74 | 31.4 | 8.0 | 0.6 | 5.9 | | | | | 0.3 | <0.69 |
| 75 | 5.14 | 34.446 | 6.57 | 0.87 | 0.77 | 16.8 | 7.1 | 0.7 | 5.0 | 37.0 | 4.0 | 0.10 | 2.18 | 0.3 | 0.14 |
| 100 | 5.48 | 34.538 | 6.60 | 0.90 | 0.77 | 26.4 | 6.2 | 1.0 | 4.5 | | | | | 0.3 | 0.10 |

| Stasjon: Jomfruland | | Dato: 16.03.2003 | | Tid (UTC): 12:25 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|--------------------------------|-----------|-------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 11 | | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 1.60 | 23.342 | 8.56 | 0.36 | 0.03 | 14.6 | 0.5 | 0.6 | 1.1 | 30.3 | 3.9 | 0.19 | 0.95 | 0.9 | 0.74 |
| 5 | 0.73 | 24.204 | 8.91 | 0.29 | 0.03 | 13.9 | 0.1 | <0.4 | 0.2 | 41.0 | 5.6 | 0.18 | 2.35 | 0.8 | 0.65 |
| 10 | 0.62 | 25.875 | 8.83 | 0.42 | 0.03 | 14.6 | 0.3 | <0.4 | 0.3 | 41.8 | 5.5 | 0.25 | 0.93 | 4.8 | 0.65 |
| 20 | 4.42 | 33.832 | 6.70 | 0.84 | 0.55 | 24.6 | 7.9 | 0.6 | 4.1 | 29.7 | 4.1 | 0.17 | 1.26 | 2.6 | 0.42 |
| 30 | 5.21 | 34.174 | 6.35 | 0.94 | 0.71 | 21.4 | 7.5 | 1.5 | 5.3 | 28.6 | 4.0 | 0.15 | 1.23 | 0.8 | 0.32 |
| 50 | 5.55 | 34.454 | 6.29 | 0.90 | 0.71 | 21.4 | 7.6 | 0.6 | 5.5 | | | | | 0.6 | 0.37 |
| 75 | 5.62 | 34.570 | 6.27 | 0.94 | 0.71 | 19.6 | 7.6 | 1.4 | 5.5 | 30.2 | 4.0 | 0.09 | 1.29 | 0.32 | 0.32 |
| 100 | 5.70 | 34.532 | 6.26 | 0.94 | 0.71 | 18.9 | 8.3 | 0.4 | 5.6 | | | | | 0.65 | 0.65 |

| Stasjon: Jomfruland | | Dato: 26.03.2003 | | Tid (UTC): 12:40 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|--------------------------------|-----------|-------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 3.78 | 30.428 | 8.43 | 0.39 | 0.06 | 17.1 | 2.2 | 0.4 | 0.2 | 48.7 | 8.2 | 0.26 | 1.36 | 3.3 | 0.68 |
| 5 | 3.63 | 31.411 | 9.43 | 0.36 | <0.03 | 14.3 | 0.1 | <0.4 | 0.1 | 56.6 | 7.6 | 0.31 | 1.82 | 7.5 | 0.49 |
| 10 | 4.07 | 32.580 | 7.89 | 0.58 | 0.16 | 20.4 | 5.8 | 0.6 | 0.1 | 52.8 | 7.8 | 0.48 | 1.67 | 9.5 | 0.53 |
| 20 | 3.67 | 33.106 | 7.31 | 0.68 | 0.42 | 24.6 | 10.4 | 0.7 | 1.2 | 33.1 | 5.6 | 0.19 | 1.56 | 3.4 | 0.45 |
| 30 | 4.00 | 33.575 | 6.97 | 0.81 | 0.55 | 27.5 | 10.1 | 0.6 | 2.8 | 39.1 | 6.5 | 0.14 | 1.39 | 2.1 | 0.46 |
| 50 | 4.16 | 33.903 | 6.81 | 2.36 | 0.58 | 27.5 | 10.1 | 0.6 | 3.6 | 44.1 | 7.9 | 0.10 | 1.50 | 0.9 | 0.44 |
| 75 | 4.44 | 34.060 | 6.69 | 0.87 | 0.65 | 29.6 | 9.5 | 0.7 | 4.0 | | | | | 0.55 | 0.55 |
| 100 | 4.66 | 34.200 | 6.60 | 0.94 | 0.71 | 36.4 | 9.1 | 1.0 | 3.4 | | | | | 0.49 | 0.49 |

| Stasjon: Jomfruland | | Dato: 09.04.2003 | | Tid (UTC): 05:20 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 11 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 3.79 | 26.568 | 7.79 | 0.26 | <0.03 | 15.0 | 1.9 | 0.8 | 0.7 | 26.5 | 4.3 | 0.16 | 0.54 | 1.4 | 0.81 |
| 5 | 3.82 | 26.815 | 7.79 | 0.29 | 0.03 | 16.4 | 1.9 | 0.7 | 0.5 | 38.5 | 7.5 | 0.18 | 0.54 | 1.4 | 0.69 |
| 10 | 4.01 | 28.035 | 7.72 | 0.32 | <0.03 | 16.4 | 1.9 | 0.6 | 0.3 | 35.7 | 5.3 | 0.19 | 1.06 | 1.7 | 0.62 |
| 20 | 4.04 | 32.551 | 7.06 | 0.55 | 0.29 | 21.1 | 7.4 | 1.3 | 0.4 | 30.1 | 4.2 | 0.14 | 1.11 | 1.9 | 0.51 |
| 30 | 4.45 | 33.990 | 6.75 | 0.68 | 0.45 | 20.0 | 8.3 | 1.3 | 1.7 | 24.0 | 3.7 | 0.11 | 1.79 | 1.2 | 0.32 |
| 50 | 5.14 | 34.562 | 6.42 | 0.87 | 0.68 | 20.4 | 8.3 | 0.8 | 4.4 | 4.4 | 4.4 | 0.07 | 0.93 | 0.4 | 0.18 |
| 75 | 5.40 | 34.612 | 6.28 | 0.90 | 0.71 | 21.4 | 8.3 | 0.7 | 4.4 | 24.0 | 3.9 | 0.07 | 0.93 | 0.4 | 0.41 |
| 100 | 5.74 | 34.736 | 6.22 | 0.94 | 0.71 | 23.6 | 8.4 | 0.7 | 4.6 | | | | | | 0.28 |

| Stasjon: Jomfruland | | Dato: 21.05.2003 | | Tid (UTC): 14:50 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 7.5 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 10.56 | 26.120 | 6.94 | 0.36 | <0.03 | 18.6 | 1.4 | 0.5 | 0.5 | 47.2 | 8.4 | 0.24 | 1.12 | 2.2 | 0.74 |
| 5 | 10.15 | 26.851 | 6.85 | 0.52 | 0.10 | 20.0 | 1.1 | 0.9 | <0.1 | 46.2 | 8.0 | 0.30 | 0.95 | 1.9 | 0.55 |
| 10 | 9.00 | 31.207 | 6.58 | 1.07 | 0.68 | 22.9 | 2.5 | 2.1 | <0.1 | 53.6 | 9.4 | 0.27 | 2.09 | 2.7 | 0.60 |
| 20 | 8.09 | 32.903 | 6.18 | 0.39 | 0.13 | 25.4 | 3.2 | 2.7 | 0.2 | 80.3 | 14.5 | 0.22 | 1.68 | 1.2 | 0.60 |
| 30 | 7.62 | 33.199 | 6.11 | 0.42 | 0.16 | 22.9 | 3.4 | 3.2 | 0.9 | 28.9 | 4.8 | 0.14 | 1.32 | 0.6 | 0.60 |
| 50 | 7.30 | 33.912 | 6.18 | 0.48 | 0.29 | 27.5 | 2.5 | 3.4 | 1.3 | 34.8 | 8.1 | 0.09 | 1.23 | 0.3 | <0.51 |
| 75 | 7.30 | 34.367 | 6.07 | 0.58 | 0.42 | 20.0 | 2.9 | 2.9 | 2.0 | | | | | | 0.32 |
| 95 | 6.93 | 34.665 | 6.01 | 0.94 | 0.58 | 27.5 | 4.3 | 3.4 | 2.8 | | | | | | 0.46 |

| Stasjon: Jomfruland | | Dato: 22.06.2003 | | Tid (UTC): 14:45 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 3.9 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 16.99 | 22.579 | 6.25 | 0.29 | <0.03 | 17.5 | <0.1 | 0.9 | 0.5 | 52.7 | 8.0 | 0.20 | 2.08 | 3.6 | 1.20 |
| 5 | 15.29 | 25.804 | 6.20 | 0.29 | 0.03 | 16.4 | <0.1 | <0.4 | 0.3 | 53.4 | 7.4 | 0.21 | 2.20 | 2.9 | 0.88 |
| 10 | 15.61 | 28.092 | 5.95 | 0.32 | 0.06 | 21.1 | <0.1 | 0.6 | 0.1 | 65.4 | 9.9 | 0.19 | 2.74 | 2.6 | 0.65 |
| 20 | 12.29 | 32.336 | 5.31 | 0.32 | 0.10 | 22.1 | 2.2 | 2.2 | 1.9 | 56.2 | 10.6 | 0.26 | 1.80 | 1.6 | 0.46 |
| 30 | 10.38 | 33.458 | 5.44 | 0.42 | 0.19 | 23.9 | 3.1 | 3.4 | 2.0 | 48.0 | 8.4 | 0.23 | 1.50 | 0.7 | 0.42 |
| 50 | 9.58 | 34.256 | 5.73 | 0.58 | 0.39 | 26.4 | 1.9 | 2.7 | 3.1 | 62.9 | 9.1 | 0.21 | 2.18 | 0.4 | 0.42 |
| 75 | 9.06 | 34.564 | 5.59 | 0.61 | 0.42 | 24.3 | 2.2 | 2.1 | 3.3 | | | | | | 0.28 |
| 90 | 8.74 | 34.602 | 5.65 | 0.61 | 0.42 | 32.8 | 1.9 | 3.4 | 3.1 | | | | | | 0.46 |

| Stasjon: Jomfruland | | Dato: 22.07.2003 | | Tid (UTC): 16:33 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|-----------|------------------|----------------|------------------|------------|--------------------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|-------------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktedyb (m): 9.25 | | Siktefarge: | | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) | Ay380 (m-1) |
| 0 | 20.03 | 28.829 | 5.56 | 0.23 | <0.03 | 14.6 | 0.3 | 0.4 | 0.2 | 30.0 | 5.3 | 0.14 | 1.05 | 0.9 | 0.41 |
| 5 | 19.63 | 29.265 | 5.72 | 0.23 | <0.03 | 15.4 | <0.1 | 0.5 | 0.1 | 38.6 | 6.9 | 0.15 | 1.17 | 0.9 | 0.35 |
| 10 | 15.09 | 32.362 | 5.28 | 0.23 | <0.03 | 15.7 | 0.9 | 0.8 | 0.2 | 41.5 | 7.0 | 0.19 | 1.42 | 1.2 | 0.26 |
| 20 | 14.54 | 32.716 | 5.09 | 0.26 | 0.06 | 14.3 | 0.9 | 1.1 | 0.6 | 40.5 | 6.5 | 0.16 | 1.40 | 0.7 | 0.30 |
| 30 | 13.95 | 32.979 | 5.00 | 0.29 | 0.06 | 13.9 | 0.9 | 1.7 | 0.9 | 33.2 | 5.9 | 0.14 | 1.22 | 0.8 | 0.28 |
| 50 | 12.00 | 33.707 | 4.99 | 0.48 | 0.26 | 19.6 | 1.1 | 2.6 | 2.0 | | | | | 0.4 | 0.42 |
| 75 | 8.64 | 34.878 | 5.43 | 0.65 | 0.45 | 16.1 | 3.4 | 0.9 | 3.1 | 33.0 | 5.7 | 0.09 | 1.54 | | 0.16 |
| 100 | 8.31 | 34.991 | 5.52 | 0.71 | 0.52 | 21.1 | 3.8 | 1.7 | 2.6 | | | | | | 0.28 |

| Stasjon: Jomfruland | | Dato: 26.08.2003 | | Tid (UTC): 11:36 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|-----------|------------------|----------------|------------------|------------|--------------------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|-------------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktedyb (m): 7.6 | | Siktefarge: | | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) | Ay380 (m-1) |
| 0 | 18.21 | 28.427 | 6.29 | 0.32 | <0.03 | 14.3 | 0.3 | <0.4 | 1.7 | 39.8 | 6.3 | 0.21 | 1.24 | 1.6 | 0.58 |
| 5 | 18.55 | 29.023 | 6.08 | 0.32 | <0.03 | 12.9 | 0.3 | <0.4 | 2.3 | 32.4 | 4.5 | 0.19 | 1.05 | 0.9 | 0.58 |
| 10 | 18.77 | 31.276 | 5.83 | 0.32 | 0.03 | 12.9 | 0.3 | <0.4 | 2.5 | 29.0 | 4.0 | 0.19 | 0.92 | 1.1 | 0.49 |
| 20 | 18.74 | 31.700 | 5.49 | 0.32 | 0.03 | 15.7 | 0.4 | 0.5 | 2.7 | 29.0 | 4.3 | 0.19 | 0.93 | 0.7 | 0.55 |
| 30 | 17.52 | 33.013 | 5.07 | 0.36 | 0.13 | 13.2 | 0.9 | 0.6 | 2.8 | 22.0 | 2.7 | 0.11 | 0.94 | 0.5 | 1.04 |
| 50 | 13.74 | 34.217 | 6.01 | 0.48 | 0.26 | 12.9 | 2.4 | <0.4 | 3.0 | | | | | 0.3 | <0.35 |
| 75 | 9.05 | 34.838 | 5.36 | 0.71 | 0.48 | 15.0 | 3.9 | 0.6 | 4.2 | 29.6 | 3.7 | 0.09 | 1.34 | | 0.35 |
| 100 | 8.63 | 34.916 | 5.36 | 0.84 | 0.61 | 22.9 | 5.1 | 0.9 | 4.5 | | | | | | 0.59 |

| Stasjon: Jomfruland | | Dato: 24.09.2003 | | Tid (UTC): 08:06 | | Posisjon: N: 58° 51' E: 9° 40' | | | | | | | | | |
|---------------------|-----------|------------------|----------------|------------------|------------|--------------------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|-------------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktedyb (m): 11.5 | | Siktefarge: | | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) | Ay380 (m-1) |
| 0 | 15.15 | 29.713 | 5.64 | 0.39 | <0.03 | 13.9 | 0.3 | <0.4 | 1.1 | 33.1 | 5.6 | 0.12 | 0.89 | 1.4 | 0.32 |
| 5 | 15.16 | 30.415 | 5.52 | 0.23 | <0.03 | 12.5 | <0.1 | <0.4 | 1.1 | 29.3 | 4.8 | 0.13 | 0.70 | 1.3 | 0.33 |
| 10 | 15.38 | 31.314 | 5.38 | 0.23 | <0.03 | 11.4 | 0.5 | <0.4 | 1.1 | 28.2 | 4.7 | 0.15 | 0.81 | 1.2 | 0.20 |
| 20 | 15.80 | 33.362 | 5.35 | 0.23 | <0.03 | 10.4 | <0.1 | <0.4 | 1.1 | 26.3 | 4.1 | 0.11 | 0.89 | 0.8 | 0.20 |
| 30 | 15.77 | 33.847 | 5.31 | 0.26 | 0.06 | 12.5 | 0.3 | 0.6 | 1.2 | 35.1 | 6.2 | 0.08 | 1.14 | 0.4 | 0.15 |
| 50 | 15.40 | 34.000 | 5.22 | 0.32 | 0.13 | 16.8 | 0.5 | 1.0 | 1.7 | | | | | 0.4 | 0.18 |
| 75 | 12.17 | 34.554 | 4.88 | 0.52 | 0.32 | 15.0 | 6.3 | 0.9 | 3.6 | 32.6 | 5.6 | 0.09 | 1.48 | | 0.23 |
| 100 | 9.87 | 34.879 | 4.87 | 0.77 | 0.52 | 27.5 | 4.8 | 1.4 | 4.3 | | | | | | 0.25 |

| Stasjon: Jomfruland | | Dato: 20.10.2003 | | Tid (UTC): 13:35 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 7.4 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 12.47 | 31.238 | 6.07 | 0.32 | 0.03 | 13.6 | 0.8 | <0.4 | 0.3 | 35.6 | 5.1 | 0.14 | 1.07 | 2.8 | 0.41 |
| 5 | 12.49 | 31.726 | 6.09 | 0.29 | 0.06 | 14.6 | 0.3 | <0.4 | 0.3 | 39.8 | 6.1 | 0.17 | 1.11 | 2.4 | 0.41 |
| 10 | 12.85 | 32.281 | 5.82 | 0.36 | 0.03 | 13.9 | 0.3 | <0.4 | 0.5 | 32.1 | 4.9 | 0.12 | 1.01 | 2.3 | 0.34 |
| 20 | 13.33 | 33.644 | 5.46 | 0.36 | 0.13 | 11.4 | 0.8 | 0.4 | 1.8 | 23.7 | 3.9 | 0.08 | 0.74 | 0.7 | 0.30 |
| 30 | 13.61 | 33.992 | 5.54 | 0.39 | 0.13 | 12.9 | 0.6 | 0.6 | 1.8 | 28.4 | 4.9 | 0.09 | 1.49 | 0.8 | 0.29 |
| 50 | 13.72 | 34.206 | 5.47 | 0.58 | 0.19 | 16.1 | 0.7 | 1.4 | 2.4 | 40.0 | 6.3 | 0.10 | 1.53 | 0.6 | <0.29 |
| 75 | 12.49 | 34.797 | 4.96 | 1.00 | 0.39 | 16.8 | 2.2 | 1.5 | 3.0 | | | | | | 0.21 |
| 100 | 8.73 | 35.068 | 4.75 | 0.97 | 0.84 | 27.1 | 9.1 | 1.1 | 5.4 | | | | | | 0.33 |

| Stasjon: Jomfruland | | Dato: 17.11.2003 | | Tid (UTC): 11:45 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 13.6 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 7.99 | 24.678 | 6.51 | 0.58 | 0.29 | 17.9 | 1.7 | 0.9 | 5.7 | 32.9 | 4.7 | 0.11 | 0.87 | 1.4 | 0.49 |
| 5 | 8.08 | 24.900 | 6.50 | 0.55 | 0.26 | 16.4 | 1.7 | 0.9 | 5.7 | 28.3 | 3.3 | 0.10 | 0.70 | 1.3 | 0.51 |
| 10 | 8.59 | 26.291 | 6.33 | 0.58 | 0.32 | 17.5 | 2.0 | 1.0 | 6.1 | 31.7 | 4.2 | 0.08 | 0.88 | 0.8 | 0.44 |
| 20 | 9.52 | 30.283 | 6.02 | 0.58 | 0.26 | 16.8 | 2.8 | 1.0 | 5.8 | 30.7 | 4.4 | 0.07 | 0.94 | 0.6 | <0.37 |
| 30 | 9.71 | 31.622 | 5.86 | 0.58 | 0.26 | 17.1 | 2.4 | 0.9 | 3.8 | 43.8 | 7.0 | 0.10 | 1.25 | 0.6 | <0.32 |
| 50 | 10.03 | 32.908 | 5.75 | 0.42 | 0.19 | 14.6 | 2.3 | 0.6 | 3.0 | 37.9 | 4.6 | 0.07 | 1.37 | 0.6 | <0.25 |
| 75 | 10.27 | 34.197 | 5.47 | 0.45 | 0.26 | 16.1 | 2.4 | 0.9 | 2.6 | | | | | | 0.19 |
| 100 | 10.35 | 34.432 | 5.38 | 0.55 | 0.39 | 18.2 | 4.1 | 0.9 | 3.1 | | | | | | 0.18 |

| Stasjon: Jomfruland | | Dato: 09.12.2003 | | Tid (UTC): 09:36 | | Posisjon: N: 58° 51' | | E: 9° 40' | | | | | | | |
|---------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|-------|
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 101 | | Siktdyp (m): 14.1 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a | Ay380 |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) | (m-1) |
| 0 | 6.85 | 27.034 | 6.50 | 0.65 | 0.45 | 19.6 | 3.9 | 1.4 | 6.5 | 41.9 | 5.9 | 0.08 | 1.10 | 0.8 | 0.69 |
| 5 | 7.26 | 27.928 | 6.44 | 0.65 | 0.42 | 19.6 | 3.6 | 1.0 | 6.1 | 36.1 | 5.0 | 0.06 | 1.01 | 0.7 | 0.88 |
| 10 | 7.74 | 29.297 | 6.04 | 0.65 | 0.45 | 17.5 | 3.3 | 0.9 | 4.9 | 27.3 | 3.9 | 0.05 | 0.93 | 0.4 | 0.54 |
| 20 | 8.82 | 31.553 | 5.88 | 0.65 | 0.45 | 18.9 | 3.9 | 0.8 | 4.4 | 39.4 | 6.2 | 0.07 | 1.20 | 0.3 | <0.51 |
| 30 | 10.00 | 34.195 | 5.52 | 0.61 | 0.45 | 17.1 | 4.1 | <0.4 | 3.8 | 30.5 | 4.6 | 0.04 | 1.16 | 0.3 | <0.43 |
| 50 | 9.88 | 34.608 | 5.34 | 0.68 | 0.52 | 21.4 | 5.3 | 0.4 | 4.2 | 56.9 | 8.6 | 0.39 | 1.79 | 0.3 | <0.43 |
| 75 | 9.76 | 34.762 | 5.36 | 0.71 | 0.55 | 20.4 | 5.6 | 0.5 | 4.0 | | | | | | 0.45 |
| 100 | 9.42 | 34.906 | 5.10 | 0.90 | 0.71 | 28.2 | 7.4 | | 4.9 | | | | | | 0.61 |

3.3. Arendal St. 2

| Stasjon: Arendal St. 2 | | Dato: 07.01.2003 | | Tid (UTC): 06:55 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | -1.64 | 28.963 | 8.29 | 0.71 | 0.50 | 32.3 | 4.8 | 1.4 | 5.0 | 11.7 | 1.9 | 0.07 | 0.65 | 0.4 |
| 5 | -0.05 | 27.805 | 8.25 | 0.66 | 0.51 | 19.8 | 4.7 | 0.8 | 4.9 | 7.3 | 1.6 | 0.08 | 0.50 | 0.4 |
| 10 | -0.01 | 27.838 | 8.18 | 0.64 | 0.50 | 25.0 | 4.8 | 1.1 | 4.9 | 8.0 | 1.4 | 0.08 | 0.48 | 0.7 |
| 20 | 2.96 | 30.812 | 7.56 | 0.71 | 0.50 | 18.1 | 5.6 | 0.5 | 4.8 | 8.8 | 1.2 | 0.07 | 0.49 | 0.2 |
| 30 | 4.68 | 32.385 | 6.93 | 0.68 | 0.47 | 24.2 | 6.2 | 0.2 | 4.4 | 6.3 | 2.1 | 0.07 | 0.51 | 0.1 |
| 50 | 8.19 | 34.858 | 5.60 | 0.84 | 0.64 | 17.4 | 9.1 | 0.4 | 4.8 | | | | | 0.1 |
| 75 | 7.90 | 35.032 | 5.55 | 0.93 | 0.75 | 16.6 | 10.3 | 0.1 | 5.5 | 5.3 | 0.9 | 0.09 | 0.54 | |

| Stasjon: Arendal St. 2 | | Dato: 23.01.2003 | | Tid (UTC): 08:07 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 10 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 3.43 | 29.838 | 7.68 | 0.77 | 0.51 | 17.0 | 6.3 | 0.7 | 5.4 | 8.3 | 1.1 | 0.08 | 0.71 | 0.4 |
| 5 | 3.43 | 30.032 | 7.65 | 0.63 | 0.46 | 17.0 | 6.1 | 0.7 | 5.4 | 10.6 | 1.2 | 0.05 | 0.81 | 0.4 |
| 10 | 3.57 | 30.289 | 7.59 | 0.67 | 0.47 | 18.8 | 6.2 | 1.5 | 5.3 | 8.9 | 1.0 | 0.05 | 0.76 | 0.3 |
| 20 | 3.77 | 30.583 | 7.58 | 0.69 | 0.53 | 17.2 | 6.3 | 0.7 | 5.3 | 10.3 | 1.1 | 0.05 | 0.75 | 0.3 |
| 30 | 4.49 | 32.194 | 7.50 | 0.68 | 0.53 | 17.1 | 7.0 | 0.5 | 5.3 | 8.9 | 0.9 | 0.05 | 0.85 | 0.3 |
| 50 | 4.41 | 33.089 | 7.25 | 0.92 | 0.66 | 21.5 | 8.2 | 0.8 | 6.1 | | | | | 0.2 |
| 75 | 4.87 | 33.332 | 7.16 | 0.90 | 0.68 | 20.7 | 8.9 | 0.8 | 6.5 | 8.2 | 1.1 | 0.05 | 1.23 | |

| Stasjon: Arendal St. 2 | | Dato: 17.02.2003 | | Tid (UTC): 06:38 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttdyp (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.15 | 27.743 | 8.34 | 0.84 | 0.55 | 23.8 | 9.2 | 0.9 | 9.0 | 7.2 | 1.1 | 0.14 | 0.85 | 1.3 |
| 5 | 1.69 | 28.763 | 8.17 | 0.86 | 0.60 | 23.5 | 9.5 | 1.3 | 9.3 | 6.0 | 1.1 | 0.08 | 0.61 | 1.1 |
| 10 | 2.03 | 29.493 | 7.84 | 0.87 | 0.59 | 24.7 | 10.2 | 1.3 | 9.4 | 9.2 | 1.5 | 0.11 | 1.29 | 0.9 |
| 20 | 2.68 | 30.786 | 7.75 | 0.86 | 0.63 | 25.4 | 11.0 | 1.4 | 9.7 | 9.8 | 1.3 | 0.07 | 0.71 | 0.5 |
| 30 | 3.14 | 31.666 | 7.48 | 0.89 | 0.62 | 26.2 | 10.7 | 1.3 | 9.1 | 17.1 | 1.3 | 0.07 | 1.02 | 0.3 |
| 50 | 4.97 | 34.043 | 6.97 | 0.90 | 0.65 | 30.1 | 8.2 | 1.1 | 6.3 | | | | | |
| 75 | 5.24 | 34.335 | 7.04 | 0.79 | 0.69 | 16.0 | 7.1 | 0.2 | 5.9 | 4.2 | 0.7 | 0.07 | 0.89 | 0.2 |

| Stasjon: Arendal St. 2 | | Dato: 27.02.2003 | | Tid (UTC): 16:07 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttdyp (m): 6 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.45 | 28.124 | 9.16 | 0.63 | 0.45 | 32.3 | 2.0 | 0.3 | 1.8 | 32.0 | 6.2 | 0.28 | 1.40 | 13.8 |
| 5 | 1.46 | 28.149 | 8.89 | 0.66 | 0.43 | 19.8 | 2.3 | 0.3 | 2.0 | 34.2 | 6.6 | 0.32 | 1.48 | 12.2 |
| 10 | 2.62 | 30.687 | 7.72 | 0.90 | 0.66 | 25.0 | 5.3 | 1.9 | 3.2 | 15.8 | 3.2 | 0.15 | 1.01 | 4.7 |
| 20 | 1.95 | 31.168 | 8.26 | 0.90 | 0.69 | 21.7 | 9.8 | 0.2 | 7.6 | 22.0 | 4.2 | 0.20 | 0.69 | 8.1 |
| 30 | 3.39 | 32.514 | 7.28 | 0.90 | 0.60 | 24.2 | 11.6 | 1.2 | 9.4 | 6.9 | 1.4 | 0.04 | 0.92 | 0.4 |
| 50 | 5.15 | 34.113 | 6.93 | 0.83 | 0.65 | 17.4 | 9.6 | 0.2 | 5.7 | | | | | 0.2 |
| 75 | 5.44 | 34.482 | 7.02 | 0.81 | 0.69 | 16.6 | 9.5 | 1.1 | 5.3 | 10.3 | 0.9 | 0.03 | 0.95 | |

| Stasjon: Arendal St. 2 | | Dato: 17.03.2003 | | Tid (UTC): 06:39 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttdyp (m): 10 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.58 | 22.987 | 9.13 | 0.48 | 0.07 | 22.0 | 0.3 | 2.3 | 0.2 | 19.5 | 3.7 | 0.17 | 1.08 | 0.7 |
| 5 | 1.00 | 24.006 | 9.47 | 0.39 | 0.07 | 15.9 | 0.4 | 0.4 | 0.2 | 14.3 | 3.2 | 0.20 | 0.68 | 0.9 |
| 10 | 1.78 | 28.546 | 8.82 | 0.65 | 0.24 | 17.3 | 2.3 | 0.8 | 0.5 | 24.9 | 6.2 | 0.38 | 1.29 | 16.2 |
| 20 | 3.68 | 32.532 | 7.29 | 0.83 | 0.60 | 20.2 | 8.5 | 0.6 | 4.3 | 12.0 | 2.4 | 0.14 | 0.88 | 3.7 |
| 30 | 4.56 | 33.839 | 7.16 | 0.85 | 0.63 | 17.9 | 8.3 | 0.3 | 4.3 | 11.2 | 2.5 | 0.12 | 0.75 | 1.7 |
| 50 | 5.45 | 34.386 | 6.87 | 0.96 | 0.63 | 19.5 | 7.5 | 0.4 | 5.0 | 10.0 | 1.7 | 0.08 | 0.76 | 1.0 |
| 75 | 5.61 | 34.505 | 6.79 | 0.95 | 0.77 | 16.9 | 8.5 | 0.4 | 5.4 | | | | | |

| Stasjon: Arendal St. 2 | | Dato: 28.03.2003 | | Tid (UTC): 12:19 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttype (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 5.14 | 28.849 | 9.30 | 0.46 | 0.08 | 17.2 | 0.5 | 0.8 | 0.2 | 21.7 | 4.0 | 0.16 | 1.02 | 4.0 |
| 5 | 4.43 | 31.370 | 9.45 | 0.48 | 0.11 | 16.1 | 1.3 | 0.9 | 0.1 | 25.3 | 6.1 | 0.27 | 1.12 | 9.7 |
| 10 | 3.97 | 32.656 | 8.50 | 0.58 | 0.23 | 19.4 | 4.7 | 0.7 | 0.4 | 26.8 | 5.6 | 0.28 | 1.31 | 11.5 |
| 20 | 4.16 | 33.146 | 7.66 | 0.72 | 0.41 | 21.2 | 7.2 | 0.9 | 1.8 | 14.9 | 4.4 | 0.22 | 1.09 | 10.1 |
| 30 | 3.91 | 33.578 | 7.43 | 0.78 | 0.54 | 22.4 | 9.8 | 1.6 | 3.4 | 21.2 | 2.4 | 0.13 | 0.94 | 5.5 |
| 50 | 4.23 | 33.903 | 7.28 | 0.85 | 0.61 | 21.1 | 9.6 | 1.1 | 4.5 | | | | | 3.3 |
| 75 | 4.41 | 34.051 | 7.36 | 0.82 | 0.61 | 20.0 | 9.1 | 0.9 | 4.7 | 9.3 | 1.9 | 0.13 | 0.69 | |

| Stasjon: Arendal St. 2 | | Dato: 15.04.2003 | | Tid (UTC): 05:42 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttype (m): 13 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 4.67 | 28.457 | 7.92 | 0.33 | 0.11 | 22.1 | 1.9 | 1.7 | 0.5 | 9.0 | 2.1 | 0.09 | 0.97 | 0.6 |
| 5 | 4.79 | 28.770 | 7.87 | 0.33 | 0.07 | 15.8 | 1.9 | 1.6 | 0.2 | 14.3 | 2.6 | 0.11 | 0.84 | 0.4 |
| 10 | 4.78 | 31.119 | 7.63 | 0.35 | 0.13 | 14.5 | 2.3 | 1.4 | 0.2 | 5.8 | 1.5 | 0.07 | 0.63 | 0.3 |
| 20 | 4.82 | 32.168 | 7.49 | 0.37 | 0.10 | 14.4 | 1.3 | 1.0 | 0.1 | 9.2 | 1.4 | 0.05 | 0.46 | 0.3 |
| 30 | 4.68 | 33.879 | 7.02 | 0.74 | 0.58 | 18.5 | 8.0 | 1.1 | 3.5 | 5.5 | 1.2 | 0.06 | 0.58 | 0.2 |
| 50 | 5.35 | 34.607 | 6.73 | 0.90 | 0.71 | 18.3 | 8.5 | 0.3 | 4.7 | | | | | 0.3 |
| 75 | 5.68 | 34.756 | 6.60 | 0.92 | 0.73 | 15.7 | 9.0 | 0.8 | 4.6 | 6.4 | 0.7 | 0.05 | 0.53 | |

| Stasjon: Arendal St. 2 | | Dato: 05.05.2003 | | Tid (UTC): 01:33 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Sikttype (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.16 | 23.473 | 7.56 | 0.49 | 0.07 | 20.6 | 0.3 | 2.0 | 0.7 | 32.0 | 3.8 | 0.17 | 1.15 | 1.9 |
| 5 | 7.17 | 23.519 | 7.67 | 0.41 | 0.03 | 17.7 | 0.3 | 1.0 | 0.7 | 21.2 | 3.3 | 0.16 | 0.71 | 2.1 |
| 10 | 7.16 | 23.731 | 7.65 | 0.39 | 0.06 | 16.8 | 0.2 | 0.7 | 0.6 | 24.3 | 4.0 | 0.22 | 0.85 | 2.2 |
| 20 | 5.19 | 31.051 | 7.57 | 0.36 | 0.11 | 16.1 | 3.8 | 1.2 | 0.6 | 14.0 | 2.0 | 0.10 | 0.52 | 0.7 |
| 30 | 4.95 | 31.769 | 7.47 | 0.39 | 0.16 | 16.3 | 4.3 | 1.0 | 0.6 | 10.4 | 1.5 | 0.08 | 0.53 | 0.3 |
| 50 | 5.79 | 34.435 | 6.54 | 0.87 | 0.68 | 18.1 | 8.3 | 0.8 | 3.9 | | | | | 0.2 |
| 75 | 6.15 | 34.797 | 6.49 | 0.90 | 0.73 | 17.3 | 9.2 | 1.6 | 4.1 | 12.1 | 1.4 | 0.12 | 0.74 | |

| Stasjon: Arendal St. 2 | | Dato: 16.05.2003 | | Tid (UTC): 10:07 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 9.74 | 26.816 | 7.02 | 0.58 | 0.12 | 42.5 | 1.2 | 2.2 | 1.4 | 24.7 | 4.0 | 0.17 | 1.52 | 0.9 |
| 5 | 8.60 | 29.531 | 7.03 | 0.50 | 0.07 | 21.2 | 1.3 | 1.1 | 0.6 | 29.0 | 4.6 | 0.24 | 0.90 | 2.3 |
| 10 | 8.51 | 29.847 | 7.02 | 0.51 | 0.07 | 20.1 | 1.4 | 1.0 | 0.7 | 26.4 | 4.8 | 0.24 | 0.10 | 2.4 |
| 20 | 7.82 | 32.160 | 6.70 | 0.48 | 0.10 | 18.2 | 2.2 | 1.7 | 1.0 | 17.1 | 2.7 | 0.14 | 0.18 | 0.4 |
| 30 | 7.46 | 33.280 | 6.60 | 0.48 | 0.14 | 18.4 | 2.4 | 2.0 | 1.3 | 10.1 | 2.0 | 0.10 | 0.54 | 0.7 |
| 50 | 7.39 | 33.606 | 6.66 | 0.60 | 0.21 | 21.3 | 2.4 | 2.2 | 1.4 | | | | | 0.6 |
| 75 | 7.16 | 34.295 | 6.48 | 0.58 | 0.29 | 20.8 | 2.3 | 2.6 | 2.0 | 13.3 | 2.0 | 0.07 | 0.88 | |

| Stasjon: Arendal St. 2 | | Dato: 31.05.2003 | | Tid (UTC): 12:36 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|-------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 5 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 12.41 | 24.573 | 7.33 | 0.52 | 0.08 | 23.0 | 0.2 | 0.5 | 0.2 | 29.0 | 4.4 | 0.21 | 1.39 | 1.8 |
| 5 | 11.19 | 26.694 | 7.34 | 0.50 | 0.05 | 18.8 | 0.2 | 0.6 | 0.2 | 32.7 | 5.1 | 0.26 | 1.24 | 2.4 |
| 10 | 11.05 | 29.495 | 7.13 | 0.55 | 0.07 | 20.8 | 0.8 | 0.6 | 0.3 | 36.5 | 6.7 | 0.32 | 1.39 | 3.7 |
| 20 | 8.65 | 32.084 | 6.38 | 0.44 | 0.08 | 20.1 | 2.8 | 3.0 | 1.0 | 14.6 | 3.3 | 0.16 | 0.73 | 1.0 |
| 30 | 8.52 | 33.001 | 6.30 | 0.43 | 0.16 | 15.3 | 2.1 | 2.7 | 1.9 | 9.4 | 1.9 | 0.15 | 0.42 | 0.4 |
| 50 | 8.14 | 34.179 | 6.30 | 0.50 | 0.21 | 15.6 | 1.2 | 2.4 | 2.2 | | | | | 0.2 |
| 75 | 7.78 | 34.429 | 6.36 | 0.54 | 0.29 | 14.4 | 1.4 | 2.5 | 2.5 | 12.2 | 1.9 | 0.12 | 0.67 | |

| Stasjon: Arendal St. 2 | | Dato: 13.06.2003 | | Tid (UTC): 00:50 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|-------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 11.26 | 28.861 | 6.35 | 0.38 | 0.10 | 20.8 | 2.8 | 2.4 | 1.8 | 20.4 | 3.5 | 0.17 | 0.82 | 1.6 |
| 5 | 9.66 | 32.729 | 6.00 | 0.36 | 0.12 | 16.9 | 3.3 | 3.1 | 1.3 | 9.5 | 1.9 | 0.13 | 0.63 | 1.1 |
| 10 | 9.45 | 33.102 | 6.01 | 0.37 | 0.13 | 19.1 | 3.1 | 3.2 | 1.5 | 11.5 | 1.6 | 0.10 | 0.44 | 0.9 |
| 20 | 9.08 | 33.095 | 5.96 | 0.40 | 0.13 | 16.2 | 3.4 | 3.6 | 1.8 | 11.3 | 1.6 | 0.09 | 1.03 | 0.8 |
| 30 | 8.50 | 34.023 | 6.14 | 0.42 | 0.24 | 13.3 | 1.7 | 2.9 | 2.3 | 9.8 | 1.0 | 0.10 | 0.47 | 0.3 |
| 50 | 8.58 | 34.670 | 6.30 | 0.56 | 0.27 | 12.0 | 0.7 | 1.5 | 1.1 | | | | | 0.4 |
| 75 | 8.10 | 34.792 | 6.25 | 0.51 | 0.34 | 10.3 | 1.2 | 1.8 | 2.1 | 8.1 | 1.5 | 0.07 | 0.50 | |

| Stasjon: Arendal St. 2 | | Dato: 01.07.2003 | | Tid (UTC): 04:33 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|-------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdepth (m): 4 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 16.30 | 30.534 | 5.93 | 0.37 | 0.07 | 17.1 | 0.3 | 0.8 | 0.4 | 21.8 | 3.8 | 0.14 | 0.74 | 1.0 |
| 5 | 16.30 | 30.533 | 5.95 | 0.33 | 0.02 | 13.7 | 0.2 | 0.5 | 0.4 | 19.2 | 3.9 | 0.14 | 0.70 | 1.0 |
| 10 | 16.11 | 30.659 | 5.93 | 0.35 | 0.01 | 15.4 | 0.2 | 0.4 | 0.4 | 24.1 | 3.8 | 0.14 | 0.87 | 1.3 |
| 20 | 14.48 | 31.771 | 5.77 | 0.41 | 0.03 | 18.2 | 0.6 | 1.0 | 0.7 | 26.1 | 4.4 | 0.17 | 0.92 | 1.7 |
| 30 | 12.70 | 33.066 | 5.71 | 0.35 | 0.12 | 13.6 | 1.0 | 1.6 | 1.3 | | 2.8 | 0.16 | 0.76 | 0.6 |
| 50 | 9.48 | 34.432 | 5.83 | 0.53 | 0.36 | 13.6 | 2.1 | 1.8 | 3.3 | | | | | 0.2 |
| 75 | 8.59 | 34.722 | 6.11 | 0.60 | 0.39 | 12.4 | 1.8 | 1.6 | 2.4 | | 2.1 | 0.09 | 0.69 | |

| Stasjon: Arendal St. 2 | | Dato: 15.07.2003 | | Tid (UTC): 10:51 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|-------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Munin | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdepth (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 19.45 | 21.720 | 6.01 | 0.33 | 0.04 | 17.6 | 0.1 | 0.3 | 1.1 | 16.8 | 2.9 | 0.13 | 0.77 | 1.0 |
| 5 | 16.49 | 29.580 | 6.06 | 0.34 | 0.05 | 15.6 | 0.1 | 0.3 | 1.1 | 20.9 | 3.0 | 0.14 | 0.66 | 1.1 |
| 10 | 15.98 | 30.230 | 5.97 | 0.48 | 0.06 | 19.4 | 0.3 | 0.3 | 1.0 | 21.6 | 3.6 | 0.16 | 0.68 | 1.4 |
| 20 | 11.53 | 33.460 | 5.54 | 0.53 | 0.25 | 19.7 | 2.7 | 1.4 | 2.2 | 24.9 | 2.3 | 0.11 | 0.71 | 0.8 |
| 30 | 10.38 | 34.050 | 5.65 | 0.59 | 0.30 | 18.2 | 2.7 | 1.4 | 2.4 | 16.8 | 1.7 | 0.08 | 0.64 | 0.5 |
| 50 | 9.24 | 34.480 | 5.75 | 0.76 | 0.41 | 29.1 | 2.7 | 1.7 | 2.7 | | | | | 0.2 |
| 75 | 8.78 | 34.740 | 6.06 | 0.63 | 0.49 | 12.1 | 3.8 | 1.3 | 3.1 | 8.9 | 0.9 | 0.09 | 0.59 | |

| Stasjon: Arendal St. 2 | | Dato: 05.08.2003 | | Tid (UTC): 10:54 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|-------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Munin | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdepth (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 19.65 | 16.960 | 5.81 | 0.40 | 0.06 | 19.2 | 0.1 | 0.3 | 1.5 | 22.3 | 2.5 | 0.12 | 0.88 | 1.1 |
| 5 | 19.26 | 27.480 | 5.74 | 0.36 | 0.05 | 17.1 | 0.2 | 0.1 | 1.0 | 23.2 | 2.3 | 0.12 | 0.79 | 1.2 |
| 10 | 18.01 | 32.070 | 5.56 | 0.34 | 0.03 | 16.9 | 0.1 | 0.2 | 0.9 | 20.3 | 1.7 | 0.10 | 0.85 | 1.3 |
| 20 | 16.22 | 33.410 | 5.60 | 0.37 | 0.09 | 19.2 | 0.7 | 0.7 | 1.1 | 22.0 | 1.3 | 0.08 | 0.84 | 0.8 |
| 30 | 14.88 | 33.830 | 5.59 | 0.61 | 0.17 | 16.1 | 0.8 | 1.6 | 1.2 | | 1.5 | 0.06 | 1.69 | 0.6 |
| 50 | 13.39 | 34.220 | 5.60 | 0.78 | 0.41 | 15.7 | 1.6 | 2.3 | 1.9 | | 0.5 | 0.05 | 1.38 | 0.3 |
| 75 | 9.99 | 34.730 | 5.84 | 0.74 | 0.44 | 18.2 | 3.3 | 1.8 | 3.4 | | | | | |

| Stasjon: Arendal St. 2 | | Dato: 18.08.2003 | | Tid (UTC): 06:08 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 19.83 | 25.676 | 5.55 | 0.41 | 0.10 | 15.3 | 0.2 | 0.4 | 2.1 | 16.9 | 3.8 | 0.17 | 0.79 | 0.3 |
| 5 | 19.86 | 27.721 | 5.11 | 0.36 | 0.05 | 10.7 | 0.1 | 0.4 | 1.6 | 9.8 | 2.5 | 0.13 | 0.70 | 0.3 |
| 10 | 19.01 | 30.868 | 5.37 | 0.56 | 0.05 | 12.6 | 0.1 | 0.5 | 1.9 | 8.6 | 2.0 | 0.12 | 0.64 | 0.6 |
| 20 | 17.28 | 33.109 | 5.19 | 0.33 | 0.04 | 12.3 | 0.2 | 0.3 | 2.0 | 11.8 | 2.5 | 0.14 | 0.66 | 0.9 |
| 30 | 16.29 | 33.736 | 5.54 | 0.41 | 0.03 | 14.8 | 0.4 | 0.3 | 2.1 | 16.9 | 3.4 | 0.17 | 0.86 | 0.3 |
| 50 | 12.65 | 34.215 | 5.50 | 0.45 | 0.15 | 13.8 | 1.4 | 0.6 | 1.7 | | | | | 0.5 |
| 75 | 8.84 | 34.917 | 5.48 | 0.62 | 0.50 | 13.7 | 5.1 | 0.9 | 4.4 | 15.2 | 1.4 | 0.07 | 0.71 | |

| Stasjon: Arendal St. 2 | | Dato: 12.09.2003 | | Tid (UTC): 05:40 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 11 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 16.68 | 31.295 | 5.65 | 0.41 | 0.11 | 13.1 | 0.2 | 0.4 | 1.5 | 16.9 | 3.2 | 0.11 | 0.66 | 0.9 |
| 5 | 16.77 | 31.804 | 5.59 | 0.33 | 0.05 | 11.1 | 0.2 | 0.4 | 1.5 | 13.2 | 3.0 | 0.12 | 0.63 | 1.2 |
| 10 | 16.68 | 32.214 | 5.54 | 0.35 | 0.04 | 11.8 | 0.1 | 0.3 | 1.2 | 14.8 | 3.0 | 0.16 | 0.60 | 1.3 |
| 20 | 16.60 | 32.702 | 5.53 | 0.37 | 0.08 | 11.3 | 0.2 | 0.2 | 1.1 | 13.7 | 3.6 | 0.12 | 0.61 | 0.9 |
| 30 | 16.00 | 33.390 | 5.53 | 0.33 | 0.05 | 11.3 | 0.3 | 0.2 | 1.4 | 12.9 | 3.1 | 0.14 | 0.79 | 1.4 |
| 50 | 14.45 | 33.797 | 4.83 | 0.46 | 0.28 | 13.6 | 2.6 | 0.6 | 4.6 | | | | | 0.5 |
| 75 | 9.93 | 34.660 | 5.24 | 0.66 | 0.52 | 13.9 | 5.2 | 0.2 | 4.7 | 10.0 | 2.3 | 0.07 | 0.97 | |

| Stasjon: Arendal St. 2 | | Dato: 18.09.2003 | | Tid (UTC): 12:55 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): 11 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 17.01 | 31.801 | 5.47 | 0.41 | 0.16 | 15.9 | 0.8 | 0.6 | 2.3 | 11.1 | 1.5 | 0.07 | 0.55 | 0.7 |
| 5 | 16.93 | 32.019 | 5.35 | 0.36 | 0.13 | 12.1 | 0.7 | 0.4 | 2.3 | 7.0 | 1.3 | 0.07 | 0.58 | 0.6 |
| 10 | 16.67 | 32.839 | 5.22 | 0.36 | 0.16 | 11.5 | 1.2 | 0.2 | 2.5 | 6.8 | 0.9 | 0.06 | 0.56 | 0.5 |
| 20 | 16.57 | 33.136 | 5.16 | 0.42 | 0.17 | 14.3 | 1.9 | 0.5 | 2.7 | 8.8 | 0.9 | 0.06 | 0.61 | 0.3 |
| 30 | 14.70 | 33.583 | 4.96 | 0.44 | 0.24 | 12.8 | 3.6 | 0.1 | 3.8 | 8.7 | 1.0 | 0.03 | 0.66 | 0.3 |
| 50 | 12.88 | 34.254 | 5.08 | 0.49 | 0.34 | 12.7 | 3.8 | 0.3 | 4.3 | | | | | 0.2 |
| 75 | 10.45 | 34.631 | 5.34 | 0.63 | 0.46 | 14.5 | 4.0 | 0.7 | 4.3 | 9.5 | 0.9 | 0.04 | 1.52 | |

| Stasjon: Arendal St. 2 | | Dato: 03.10.2003 | | Tid (UTC): 12:11 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktedyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 15.43 | 29.360 | 5.45 | 0.46 | 0.18 | 25.1 | 1.0 | 1.9 | 2.0 | 14.5 | 2.5 | 0.12 | 0.56 | 0.6 |
| 5 | 15.36 | 31.894 | 5.41 | 0.33 | 0.10 | 12.1 | 0.6 | 0.6 | 1.7 | 7.3 | 1.8 | 0.09 | 0.51 | 0.5 |
| 10 | 15.52 | 32.827 | 5.37 | 0.35 | 0.11 | 12.3 | 0.6 | 0.7 | 1.7 | 8.4 | 1.7 | 0.07 | 0.33 | 0.4 |
| 20 | 15.57 | 33.442 | 5.35 | 0.33 | 0.09 | 12.9 | 0.6 | 0.6 | 1.7 | 5.7 | 1.6 | 0.06 | 0.50 | 0.3 |
| 30 | 15.72 | 33.994 | 5.36 | 0.31 | 0.09 | 11.4 | 0.5 | 0.8 | 1.5 | 5.0 | 1.2 | 0.05 | 0.37 | 0.2 |
| 50 | 15.09 | 34.263 | 5.21 | 0.39 | 0.15 | 13.0 | 0.9 | 1.2 | 1.7 | | | | | 0.2 |
| 75 | 12.45 | 34.472 | 5.04 | 0.59 | 0.34 | 14.3 | 2.9 | 0.7 | 4.0 | 7.8 | 1.1 | 0.06 | 0.67 | |

| Stasjon: Arendal St. 2 | | Dato: 17.10.2003 | | Tid (UTC): 04:47 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktedyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 11.54 | 30.052 | 6.34 | 0.51 | 0.12 | 26.7 | 0.3 | 1.7 | 2.1 | 18.4 | 3.0 | 0.15 | 1.31 | 1.7 |
| 5 | 11.96 | 30.356 | 6.24 | 0.40 | 0.07 | 20.1 | 0.4 | 0.7 | 1.9 | 14.9 | 2.4 | 0.14 | 0.59 | 1.2 |
| 10 | 12.74 | 32.239 | 6.20 | 0.39 | 0.06 | 17.4 | 0.1 | 0.3 | 1.6 | 11.1 | 2.8 | 0.15 | 0.53 | 1.0 |
| 20 | 14.54 | 33.690 | 5.42 | 0.42 | 0.16 | 18.4 | 0.8 | 0.7 | 1.9 | 9.0 | 1.8 | 0.07 | 0.59 | 0.4 |
| 30 | 14.61 | 33.899 | 5.40 | 0.43 | 0.13 | 20.5 | 0.7 | 0.7 | 1.8 | 7.9 | 1.3 | 0.06 | 0.60 | 0.2 |
| 50 | 13.91 | 34.171 | 5.36 | 0.42 | 0.17 | 13.5 | 0.9 | 0.8 | 2.1 | | | | | 0.2 |
| 75 | 12.28 | 34.685 | 5.05 | 0.60 | 0.35 | 14.6 | 2.3 | 0.1 | 3.4 | 6.9 | 1.0 | 0.08 | 0.79 | |

| Stasjon: Arendal St. 2 | | Dato: 01.11.2003 | | Tid (UTC): 12:54 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktedyp (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 10.99 | 32.701 | 6.20 | 0.43 | 0.17 | 20.8 | 0.8 | 1.2 | 0.9 | 16.5 | 2.2 | 0.11 | 1.65 | 1.7 |
| 5 | 11.01 | 32.729 | 6.20 | 0.36 | 0.12 | 10.3 | 0.7 | 0.5 | 0.8 | 7.8 | 1.5 | 0.11 | 0.81 | 2.0 |
| 10 | 11.00 | 32.742 | 6.17 | 0.36 | 0.13 | 10.0 | 0.6 | 0.6 | 0.6 | 7.2 | 1.6 | 0.12 | 0.40 | 1.9 |
| 20 | 11.00 | 32.746 | 6.14 | 0.35 | 0.11 | 9.6 | 0.6 | 0.6 | 0.9 | 7.8 | 1.7 | 0.11 | 0.44 | 1.7 |
| 30 | 11.02 | 32.765 | 6.12 | 0.33 | 0.11 | 9.7 | 0.6 | 0.3 | 0.8 | 7.3 | 1.7 | 0.11 | 1.54 | 1.6 |
| 50 | 11.09 | 32.790 | 6.08 | 0.37 | 0.15 | 9.9 | 0.8 | 0.3 | 0.9 | 4.3 | 0.9 | 0.05 | 0.78 | 1.4 |
| 75 | 13.46 | 34.563 | 5.31 | 0.42 | 0.24 | 8.8 | 2.3 | 0.4 | 2.1 | | | | | |

| Stasjon: Arendal St. 2 | | Dato: 13.11.2003 | | Tid (UTC): 05:51 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 8.57 | 28.273 | 6.79 | 0.59 | 0.26 | 22.6 | 1.6 | 2.2 | 3.8 | 21.7 | 2.5 | 0.13 | 1.33 | 1.8 |
| 5 | 8.57 | 28.278 | 6.78 | 0.53 | 0.27 | 14.7 | 1.4 | 1.2 | 3.7 | 9.8 | 1.7 | 0.11 | 0.60 | 2.2 |
| 10 | 9.17 | 29.447 | 6.51 | 0.47 | 0.24 | 14.7 | 1.6 | 1.0 | 3.6 | 8.3 | 1.4 | 0.07 | 0.48 | 0.4 |
| 20 | 11.24 | 33.721 | 5.84 | 0.37 | 0.19 | 10.3 | 2.0 | 0.1 | 2.4 | 5.3 | 0.8 | 0.04 | 0.51 | 0.3 |
| 30 | 11.25 | 33.903 | 5.80 | 0.38 | 0.20 | 11.0 | 2.0 | 0.1 | 2.3 | 6.1 | 1.0 | 0.04 | 0.60 | 0.2 |
| 50 | 10.56 | 34.242 | 6.06 | 0.37 | 0.19 | 10.6 | 1.3 | 0.7 | 2.0 | | | | | 0.1 |
| 75 | 10.11 | 34.772 | 5.28 | 0.69 | 0.59 | 13.7 | 6.5 | 0.5 | 4.7 | 5.6 | 1.0 | 0.05 | 0.67 | |

| Stasjon: Arendal St. 2 | | Dato: 07.12.2003 | | Tid (UTC): 05:36 | | Posisjon: N: 58° 23' | | E: 8° 49' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 105 | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 6.70 | 27.813 | 7.02 | 0.72 | 0.51 | 22.0 | 3.9 | 1.8 | 8.4 | 11.1 | 1.5 | 0.07 | 1.32 | 0.7 |
| 5 | 7.71 | 29.512 | 6.82 | 0.71 | 0.51 | 16.6 | 3.4 | 1.4 | 6.1 | 6.1 | 1.5 | 0.07 | 0.70 | 0.7 |
| 10 | 7.99 | 29.784 | 6.69 | 0.69 | 0.50 | 16.3 | 3.2 | 1.2 | 5.6 | 5.9 | 1.5 | 0.07 | 0.54 | 0.8 |
| 20 | 8.40 | 31.123 | 6.54 | 0.66 | 0.48 | 15.5 | 3.3 | 1.0 | 4.9 | 5.1 | 1.0 | 0.06 | 0.43 | 0.3 |
| 30 | 9.61 | 33.531 | 6.44 | 0.64 | 0.52 | 16.1 | 3.5 | 0.4 | 5.0 | 5.1 | 0.9 | 0.05 | 0.57 | 0.4 |
| 50 | 10.22 | 34.491 | 5.92 | 0.59 | 0.43 | 14.7 | 3.7 | 0.7 | 4.1 | | | | | 0.1 |
| 75 | 9.76 | 34.664 | 5.93 | 0.59 | 0.45 | 15.2 | 4.5 | 0.2 | 3.9 | 8.1 | 0.8 | 0.03 | 0.53 | |

3.4. Arendal St. 3

| Stasjon: Arendal St. 3 | | Dato: 07.01.2003 | | Tid (UTC): 07:41 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktedyb (m): 10 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | -0.49 | 27.545 | 8.27 | 0.51 | 0.51 | 4.9 | 4.9 | | 5.2 | | | | | 0.5 |
| 5 | -0.34 | 27.670 | 8.25 | 0.48 | 0.48 | 5.0 | 5.0 | | 5.2 | | | | | 0.5 |
| 10 | 3.24 | 30.844 | 7.48 | 0.49 | 0.49 | 5.6 | 5.6 | | 4.5 | | | | | 0.3 |
| 20 | 4.07 | 31.816 | 7.24 | 0.52 | 0.52 | 6.1 | 6.1 | | 4.6 | | | | | 0.3 |
| 30 | 4.64 | 32.549 | 7.12 | 0.51 | 0.51 | 6.2 | 6.2 | | 4.4 | | | | | 0.1 |
| 50 | 8.35 | 34.250 | 6.09 | 0.54 | 0.54 | 6.5 | 6.5 | | 4.0 | | | | | 0.0 |
| 75 | 8.29 | 34.970 | 5.50 | 0.66 | 0.66 | 9.2 | 9.2 | | 4.2 | | | | | |
| 100 | 7.99 | 35.058 | 5.53 | 0.96 | 0.71 | 18.0 | 10.3 | | 4.8 | 0.7 | 0.04 | | 0.23 | |
| 125 | 7.77 | 35.109 | 5.49 | 1.10 | 0.82 | 24.2 | 11.1 | | 5.1 | | | | | |
| 150 | 7.64 | 35.140 | 5.50 | 1.01 | 0.82 | 20.3 | 11.9 | | 5.7 | | | | | |
| 200 | 7.51 | 35.163 | 5.51 | 0.98 | 0.89 | 19.0 | 11.9 | | 6.8 | 5.1 | 0.8 | 0.04 | 0.47 | |
| 240 | 7.49 | 35.177 | 5.53 | 0.98 | 0.89 | 19.6 | 12.1 | | 6.7 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 27.02.2003 | | Tid (UTC): 15:29 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktedyb (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.42 | 28.432 | | | | | | | | | | | | |
| 5 | 1.37 | 29.893 | | | | | | | | | | | | |
| 10 | 1.74 | 31.219 | | | | | | | | | | | | |
| 20 | 3.20 | 32.188 | | | | | | | | | | | | |
| 30 | 4.56 | 33.533 | | | | | | | | | | | | |
| 50 | 6.56 | 34.519 | | | | | | | | | | | | |
| 75 | 6.62 | 34.754 | | | | | | | | | | | | |
| 100 | 6.75 | 34.810 | 7.19 | 0.85 | 0.67 | 18.0 | 8.8 | | 5.0 | 4.6 | 0.03 | | 0.41 | |
| 125 | 6.42 | 34.824 | 6.54 | 0.85 | 0.75 | 24.2 | 8.2 | | 4.7 | | | | | |
| 150 | 6.75 | 34.928 | 6.30 | 0.87 | 0.75 | 20.3 | 9.9 | | 5.1 | | | | | |
| 200 | 6.70 | 34.956 | 6.44 | 0.87 | 0.75 | 19.0 | 9.1 | | 5.2 | 7.1 | 0.9 | 0.05 | 0.81 | |
| 240 | 6.80 | 34.992 | 6.39 | 0.86 | 0.75 | 19.6 | 9.4 | | 5.2 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 17.03.2003 | | Tid (UTC): 07:22 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-------|-------------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): 10 | | Siktefarge: | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.57 | 22.885 | 9.18 | | 0.13 | | 0.3 | | | | | | 0.5 |
| 5 | 0.79 | 25.851 | 9.87 | | 0.07 | | 0.3 | | | | | | 4.0 |
| 10 | 2.57 | 30.193 | 8.13 | | 0.32 | | 4.7 | | | | | | 21.8 |
| 20 | 4.13 | 33.095 | 7.33 | | 0.51 | | 8.1 | | | | | | 2.8 |
| 30 | 4.47 | 33.929 | 7.21 | | 0.56 | | 8.4 | | | | | | 2.1 |
| 50 | 4.78 | 34.282 | 7.00 | | 0.61 | | 8.1 | | | | | | 1.1 |
| 75 | 6.11 | 34.724 | 6.54 | | 0.70 | | 8.4 | | | | | | |
| 100 | 6.22 | 34.776 | 6.52 | 0.93 | 0.73 | 16.6 | 8.4 | | 11.2 | 1.6 | 0.12 | 0.90 | |
| 125 | 6.53 | 34.869 | 6.35 | 1.02 | 0.80 | 19.1 | 9.0 | | 5.5 | | | | |
| 150 | 6.46 | 34.866 | 6.38 | 1.02 | 0.78 | 17.8 | 9.0 | | 6.0 | | | | |
| 200 | 6.51 | 34.885 | 6.39 | 1.05 | 0.78 | 17.8 | 9.1 | | 5.7 | 2.6 | 0.19 | 1.32 | |
| 240 | 6.54 | 34.888 | 6.39 | 0.97 | 0.78 | 18.5 | 9.1 | | 5.8 | | | | |

| Stasjon: Arendal St. 3 | | Dato: 15.04.2003 | | Tid (UTC): 06:29 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-------|-------------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): 13 | | Siktefarge: | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 4.73 | 28.938 | 7.88 | | 0.09 | | 2.0 | | | | | | 0.6 |
| 5 | 4.77 | 30.335 | 7.72 | | 0.07 | | 2.4 | | | | | | 0.4 |
| 10 | 4.67 | 31.199 | 7.68 | | 0.08 | | 2.4 | | | | | | 0.4 |
| 20 | 4.72 | 31.537 | 7.64 | | 0.12 | | 1.9 | | | | | | 0.5 |
| 30 | 5.20 | 32.658 | 7.46 | | 0.13 | | 1.1 | | | | | | 0.4 |
| 50 | 4.63 | 34.139 | 7.04 | | 0.59 | | 8.2 | | | | | | 0.2 |
| 75 | 5.56 | 34.674 | 6.57 | | 0.74 | | 8.9 | | | | | | |
| 100 | 6.12 | 34.896 | 6.40 | 0.96 | 0.79 | 17.6 | 9.3 | | 7.8 | 0.6 | 0.03 | 0.53 | |
| 125 | 5.90 | 34.902 | 6.47 | 0.94 | 0.75 | 18.2 | 9.0 | | 4.2 | | | | |
| 150 | 5.90 | 34.913 | 6.46 | 0.94 | 0.77 | 17.9 | 8.9 | | 4.1 | | | | |
| 200 | 5.95 | 34.932 | 6.47 | 0.97 | 0.79 | 18.2 | 9.3 | | 4.2 | 0.5 | 0.03 | 0.66 | |
| 240 | 6.01 | 34.949 | 6.38 | 1.00 | 0.83 | 18.3 | 9.3 | | 4.6 | | | | |

| Stasjon: Arendal St. 3 | | Dato: 05.05.2003 | | Tid (UTC): 00:48 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-------|-------------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): | | Siktefarge: | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.10 | 23.823 | 7.58 | | 0.06 | | 0.3 | 0.7 | | | | | 2.1 |
| 5 | 7.01 | 25.661 | 7.52 | | 0.03 | | 0.2 | 0.4 | | | | | 1.7 |
| 10 | 6.85 | 28.197 | 7.52 | | 0.04 | | 0.6 | 0.3 | | | | | 2.0 |
| 20 | 5.41 | 31.241 | 7.66 | | 0.04 | | 2.2 | 0.3 | | | | | 0.8 |
| 30 | 5.06 | 32.426 | 7.46 | | 0.19 | | 4.2 | 0.9 | | | | | 0.3 |
| 50 | 5.59 | 33.982 | 6.74 | | 0.59 | | 7.2 | 2.6 | | | | | 0.2 |
| 75 | 6.43 | 34.894 | 6.46 | | 0.75 | | 9.3 | 3.4 | | | | | |
| 100 | 6.47 | 35.029 | 6.51 | 0.91 | 0.73 | 19.3 | 8.5 | 3.1 | 10.0 | 1.2 | 0.08 | 0.67 | |
| 125 | 6.58 | 35.090 | | | | | | | | | | | |
| 150 | 6.53 | 35.083 | 6.46 | 0.92 | 0.75 | 18.3 | 9.0 | 3.6 | | | | | |
| 200 | 6.57 | 35.099 | 6.51 | 0.93 | 0.75 | 18.7 | 8.9 | 3.7 | 12.6 | 1.8 | 0.11 | 1.04 | |
| 240 | 6.59 | 35.105 | 6.44 | 0.96 | 0.77 | 19.0 | 9.1 | 3.7 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 13.06.2003 | | Tid (UTC): 00:06 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-------|-------------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): | | Siktefarge: | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 11.21 | 31.302 | 6.34 | | 0.06 | | 2.5 | 0.3 | | | | | 1.7 |
| 5 | 11.20 | 31.327 | 6.27 | | 0.07 | | 2.4 | 0.3 | | | | | 1.9 |
| 10 | 11.20 | 31.329 | 6.33 | | 0.06 | | 2.4 | 0.3 | | | | | 1.9 |
| 20 | 10.92 | 32.932 | 6.35 | | 0.10 | | 1.3 | 0.7 | | | | | 0.6 |
| 30 | 8.70 | 34.434 | 6.35 | | 0.14 | | 0.5 | 0.8 | | | | | 2.4 |
| 50 | 8.27 | 34.846 | 6.32 | | 0.26 | | 0.6 | 0.8 | | | | | 0.6 |
| 75 | 7.71 | 34.930 | 6.27 | | 0.43 | | 2.4 | 1.9 | | | | | |
| 100 | 7.08 | 34.985 | 6.11 | 0.76 | 0.60 | 13.5 | 4.9 | 3.6 | 8.3 | 0.8 | 0.05 | 0.59 | |
| 125 | 6.99 | 35.011 | 6.03 | 0.89 | 0.67 | 15.6 | 6.6 | 3.9 | | | | | |
| 150 | 6.82 | 35.064 | 6.00 | 0.84 | 0.76 | 17.1 | 8.1 | 4.5 | | | | | |
| 200 | 6.81 | 35.089 | 5.99 | 0.88 | 0.77 | 15.9 | 7.7 | 4.7 | 0.8 | 0.8 | 0.06 | 0.95 | |
| 240 | 6.81 | 35.091 | 6.00 | 0.96 | 0.77 | 16.7 | 7.7 | 4.7 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 01.07.2003 | | Tid (UTC): 05:19 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|-----------|------------------|----------------|------------------|------------|----------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): 2 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | 16.48 | 30.172 | 5.97 | | 0.05 | | 0.3 | | 0.3 | | | | | 0.7 |
| 5 | 16.44 | 30.187 | 5.99 | | 0.02 | | 0.2 | | 0.3 | | | | | 0.6 |
| 10 | 14.63 | 31.802 | 6.35 | | 0.02 | | 0.2 | | 0.3 | | | | | 0.7 |
| 20 | 11.92 | 33.337 | 5.55 | | 0.17 | | 1.6 | | 2.1 | | | | | 1.6 |
| 30 | 11.24 | 34.081 | 5.69 | | 0.26 | | 1.7 | | 2.7 | | | | | 0.3 |
| 50 | 9.26 | 34.497 | 6.32 | | 0.27 | | 0.5 | | 1.2 | | | | | 0.3 |
| 75 | 8.11 | 34.902 | 6.18 | | 0.35 | | 1.4 | | 2.0 | | | | | |
| 100 | 7.86 | 35.011 | 6.02 | 0.66 | 0.52 | 12.7 | 3.8 | | 3.2 | 9.3 | 1.1 | 0.06 | 0.60 | |
| 125 | 7.21 | 35.105 | 5.92 | 0.78 | 0.70 | 16.9 | 8.3 | | 3.9 | | | | | |
| 150 | 7.20 | 35.116 | 5.86 | 0.83 | 0.79 | 17.9 | 9.2 | | 3.9 | | | | | |
| 200 | 7.14 | 35.151 | 5.84 | 0.92 | 0.86 | 17.6 | 11.0 | | 4.8 | 0.8 | 0.06 | | 0.69 | |
| 240 | 7.13 | 35.151 | 5.83 | 0.94 | 0.87 | 17.6 | 11.2 | | 5.0 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 18.08.2003 | | Tid (UTC): 06:59 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|-----------|------------------|----------------|------------------|------------|----------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | 19.88 | 25.057 | 5.58 | | 0.09 | | 0.1 | | 2.5 | | | | | 0.3 |
| 5 | 19.48 | 28.201 | 5.65 | | 0.04 | | 0.1 | | 2.3 | | | | | 0.5 |
| 10 | 19.33 | 31.643 | 5.24 | | 0.11 | | 0.1 | | 2.1 | | | | | 0.9 |
| 20 | 16.16 | 34.108 | 5.10 | | 0.15 | | 1.7 | | 1.8 | | | | | 0.2 |
| 30 | 13.63 | 34.192 | 5.22 | | 0.15 | | 1.2 | | 1.6 | | | | | 0.2 |
| 50 | 11.10 | 34.406 | 5.20 | | 0.38 | | 3.8 | | 4.2 | | | | | 0.1 |
| 75 | 8.51 | 34.978 | 5.84 | | 0.41 | | 2.9 | | 1.9 | | | | | |
| 100 | 7.82 | 35.097 | 5.82 | 0.76 | 0.67 | 16.1 | 8.0 | | 2.7 | 4.9 | 1.4 | 0.08 | 0.51 | |
| 125 | 7.72 | 35.126 | 5.54 | 0.94 | 0.76 | 18.9 | 9.7 | | 3.9 | | | | | |
| 150 | 7.73 | 35.147 | 5.62 | 0.89 | 0.78 | 17.5 | 9.7 | | 4.5 | | | | | |
| 200 | 7.73 | 35.158 | 5.68 | 0.92 | 0.83 | 17.4 | 10.2 | | 4.6 | 4.2 | 1.5 | 0.07 | 0.98 | |
| 240 | 7.72 | 35.161 | 5.68 | 0.91 | 0.85 | 18.6 | 10.6 | | 4.7 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 12.09.2003 | | Tid (UTC): 06:19 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Sikttyp (m): 11 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 15.80 | 32.749 | 5.83 | | 0.02 | 0.1 | | | 1.1 | | | | | 0.6 |
| 5 | 15.81 | 32.762 | 5.83 | | 0.02 | 0.1 | | | 1.1 | | | | | 0.6 |
| 10 | 15.84 | 32.814 | 5.81 | | 0.01 | 0.0 | | | 1.1 | | | | | 0.6 |
| 20 | 15.75 | 33.768 | 5.76 | | 0.02 | 0.1 | | | 1.0 | | | | | 0.6 |
| 30 | 14.87 | 34.144 | 5.43 | | 0.12 | 0.6 | | | 2.1 | | | | | 0.9 |
| 50 | 11.26 | 34.730 | 5.46 | | 0.29 | 0.7 | | | 3.0 | | | | | 0.5 |
| 75 | 8.65 | 35.043 | 5.52 | | 0.55 | 6.3 | | | 3.2 | | | | | |
| 100 | 8.09 | 35.040 | 5.23 | 0.86 | 0.73 | 17.4 | 8.3 | | 4.6 | 7.9 | 1.2 | 0.08 | 0.63 | |
| 125 | 8.06 | 35.053 | 5.21 | 0.93 | 0.76 | 19.0 | 9.1 | | 4.8 | | | | | |
| 150 | 8.01 | 35.067 | 5.39 | 0.87 | 0.81 | 17.1 | 9.7 | | 4.6 | | | | | |
| 200 | 8.02 | 35.117 | 5.62 | 0.86 | 0.80 | 17.7 | 10.5 | | 4.3 | 13.3 | 1.1 | 0.05 | 0.66 | |
| 240 | 7.55 | 35.133 | 5.67 | 0.98 | 0.95 | 18.1 | 11.7 | | 6.3 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 17.10.2003 | | Tid (UTC): 05:26 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Sikttyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 11.38 | 29.733 | 6.34 | | 0.12 | 0.5 | | | 1.9 | | | | | 0.9 |
| 5 | 11.59 | 31.362 | 5.76 | | 0.10 | 0.2 | | | 1.1 | | | | | 1.7 |
| 10 | 13.40 | 33.257 | 5.79 | | 0.14 | 0.2 | | | 1.1 | | | | | 1.2 |
| 20 | 13.39 | 33.951 | 5.73 | | 0.08 | 0.2 | | | 1.2 | | | | | 0.3 |
| 30 | 13.64 | 34.119 | 5.66 | | 0.12 | 0.3 | | | 1.5 | | | | | 0.2 |
| 50 | 12.69 | 34.747 | 5.17 | | 0.31 | 1.5 | | | 2.7 | | | | | 0.1 |
| 75 | 10.93 | 34.807 | 4.88 | | 0.50 | 3.1 | | | 4.0 | | | | | |
| 100 | 9.03 | 34.986 | 4.97 | 0.94 | 0.67 | 19.7 | 7.6 | | 4.9 | 9.7 | 1.2 | 0.06 | 0.92 | |
| 125 | 8.67 | 35.046 | 5.02 | 0.97 | 0.73 | 19.3 | 8.6 | | 4.8 | | | | | |
| 150 | 8.42 | 35.095 | 5.15 | 1.01 | 0.78 | 19.8 | 9.5 | | 4.9 | | | | | |
| 200 | 7.93 | 35.144 | 5.44 | 1.10 | 0.84 | 20.3 | 11.1 | | 5.0 | 7.9 | 0.9 | 0.05 | 0.54 | |
| 240 | 7.66 | 35.149 | 5.53 | 1.11 | 0.89 | 22.0 | 11.7 | | 5.9 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 13.11.2003 | | Tid (UTC): 06:40 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): 260 | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 8.42 | 28.112 | 6.92 | | 0.28 | | 1.5 | | 3.7 | | | | | 0.8 |
| 5 | 8.43 | 28.192 | 7.23 | | 0.25 | | 1.5 | | 3.7 | | | | | 1.7 |
| 10 | 9.86 | 32.691 | 6.54 | | 0.23 | | 1.5 | | 3.5 | | | | | 1.3 |
| 20 | 11.21 | 33.897 | 5.79 | | 0.20 | | 2.3 | | 2.4 | | | | | 0.2 |
| 30 | 11.12 | 34.039 | 5.83 | | 0.20 | | 2.4 | | 2.3 | | | | | 0.1 |
| 50 | 10.61 | 34.281 | 5.85 | | 0.20 | | 2.3 | | 2.2 | | | | | 0.1 |
| 75 | 9.99 | 34.839 | 6.03 | | 0.19 | | 1.6 | | 2.0 | | | | | |
| 100 | 9.06 | 35.118 | 5.50 | 0.76 | 0.67 | 13.5 | 9.2 | | 3.3 | 0.8 | 0.05 | | 0.50 | |
| 125 | 8.68 | 35.186 | 5.45 | 0.77 | 0.66 | 16.4 | 9.1 | | 3.2 | | | | | |
| 150 | 8.34 | 35.164 | 5.12 | 0.95 | 0.85 | 16.9 | 11.1 | | 5.6 | | | | | |
| 200 | 7.98 | 35.173 | 5.19 | 0.96 | 0.86 | 18.5 | 11.4 | 6.1 | 5.4 | 0.6 | 0.05 | | 0.55 | |
| 240 | 7.07 | 35.151 | 5.37 | 1.05 | 0.97 | 18.4 | 12.0 | | 7.8 | | | | | |

| Stasjon: Arendal St. 3 | | Dato: 07.12.2003 | | Tid (UTC): 06:14 | | Posisjon: N: 58° 20' | | E: 8° 54' | | | | | | |
|------------------------|--------|------------------|---------|------------------|-------|----------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: G.M.Dannevig | | Institutt: HFF | | Ekkodyp (m): | | Siktdyp (m): | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.31 | 29.145 | 6.86 | | 0.55 | | 3.4 | | 6.3 | | | | | 0.5 |
| 5 | 7.33 | 29.190 | 6.85 | | 0.50 | | 3.5 | | 6.1 | | | | | 0.5 |
| 10 | 8.20 | 30.427 | 6.57 | | 0.48 | | 3.4 | | 5.2 | | | | | 0.7 |
| 20 | 8.78 | 32.143 | 6.47 | | 0.44 | | 3.4 | | 4.5 | | | | | 0.6 |
| 30 | 9.22 | 33.051 | 6.28 | | 0.43 | | 3.4 | | 4.1 | | | | | 0.3 |
| 50 | 10.17 | 34.498 | 5.90 | | 0.40 | | 3.7 | | 3.8 | | | | | 0.1 |
| 75 | 9.74 | 34.672 | 5.92 | | 0.45 | | 4.4 | | 3.8 | | | | | |
| 100 | 9.06 | 35.080 | 5.28 | 0.83 | 0.74 | 18.0 | 8.7 | | 5.4 | 6.3 | 0.4 | 0.04 | 0.62 | |
| 125 | 8.46 | 35.212 | 5.20 | 0.95 | 0.87 | 21.9 | 10.6 | | 5.9 | | | | | |
| 150 | 8.20 | 35.220 | 5.24 | 1.05 | 0.89 | 20.4 | 11.1 | | 5.8 | | | | | |
| 200 | 7.86 | 35.231 | 5.40 | 1.02 | 0.97 | 20.5 | 11.9 | 4.4 | 6.8 | 4.4 | 0.5 | 0.04 | 0.63 | |
| 240 | 7.60 | 35.229 | 5.51 | 1.03 | 0.98 | 21.2 | 11.9 | | 6.9 | | | | | |

3.5. Lista

| Stasjon: Lista | | Dato: 11.01.2003 | | Tid (UTC): 09:30 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 2.34 | 31.143 | 0.70 | 0.46 | 16.5 | 6.0 | 3.8 | 3.8 | 0.8 | 0.06 | 0.4 | 0.2 | 0.2 | 0.4 |
| 5 | 2.35 | 31.153 | 0.68 | 0.47 | 16.1 | 5.4 | 3.9 | 3.3 | 0.9 | 0.05 | 0.2 | 0.4 | 0.4 | 0.2 |
| 10 | 2.32 | 31.267 | 0.62 | 0.49 | 16.9 | 5.4 | 3.8 | 4.4 | 0.7 | 0.05 | 0.4 | 0.2 | 0.2 | 0.4 |
| 20 | 2.69 | 31.743 | 0.59 | 0.50 | 15.0 | 5.4 | 3.8 | 2.7 | 1.0 | 0.04 | 0.2 | 0.2 | 0.2 | 0.2 |
| 30 | 3.38 | 32.300 | 0.60 | 0.51 | 14.2 | 5.5 | 3.7 | 2.7 | 0.9 | 0.05 | 0.2 | 0.2 | 0.2 | 0.1 |
| 50 | 5.51 | 33.488 | 0.61 | 0.49 | 13.4 | 5.4 | 3.5 | | | | | | | |
| 75 | 7.59 | 34.721 | 0.72 | 0.58 | 14.8 | 7.0 | 3.9 | | | | | | | |
| 100 | 7.93 | 35.185 | 0.89 | 0.74 | 16.4 | 9.5 | 4.7 | | | | | | | |
| 150 | 7.55 | 35.279 | 0.96 | 0.84 | 18.3 | 10.9 | 5.8 | | | | | | | |
| 200 | 7.43 | 35.308 | 0.97 | 0.89 | 17.9 | 11.6 | 6.1 | * | 3.6 | 0.5 | 0.05 | | | |
| 300 | 7.31 | 35.328 | 0.98 | 0.89 | 20.2 | 11.4 | 6.4 | * | | | | | | |

| Stasjon: Lista | | Dato: 10.02.2003 | | Tid (UTC): 15:15 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 6 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 3.32 | 31.890 | 0.87 | 0.62 | 19.8 | 9.6 | 7.6 | 3.5 | 0.6 | 0.05 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5 | 3.33 | 31.919 | 0.85 | 0.63 | 19.7 | 9.6 | 7.6 | 3.5 | 0.7 | 0.06 | 0.3 | 0.3 | 0.3 | 0.3 |
| 10 | 3.34 | 31.944 | 0.86 | 0.60 | 20.5 | 9.6 | 7.6 | 4.0 | 0.6 | 0.06 | 0.3 | 0.3 | 0.3 | 0.3 |
| 20 | 3.40 | 32.080 | 0.83 | 0.58 | 20.7 | 9.5 | 7.5 | 4.8 | 0.6 | 0.05 | 0.3 | 0.3 | 0.3 | 0.3 |
| 30 | 3.52 | 32.279 | 0.89 | 0.60 | 20.0 | 9.9 | 7.7 | 5.7 | 0.7 | 0.07 | 0.3 | 0.3 | 0.3 | 0.3 |
| 50 | 3.62 | 32.516 | 0.90 | 0.63 | 21.0 | 10.0 | 7.7 | | | | | | | |
| 75 | 4.45 | 33.313 | 0.90 | 0.64 | 19.5 | 9.5 | 7.0 | | | | | | | |
| 100 | 5.49 | 34.183 | 0.93 | 0.73 | 18.7 | 8.9 | 6.4 | | | | | | | |
| 150 | 6.48 | 34.838 | 0.95 | 0.71 | 16.6 | 9.0 | 5.4 | | | | | | | |
| 200 | 6.80 | 34.997 | 0.93 | 0.69 | 17.1 | 9.9 | 5.6 | 5.1 | 0.5 | 0.05 | | | | |
| 300 | 7.23 | 35.213 | 1.00 | 0.78 | 18.6 | 11.0 | 6.2 | 4.9 | * | | | | | |

Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Hydrografi/-kjemi/plankton. Datarapport 2003.

| Stasjon: Lista | | Dato: 17.03.2003 | | Tid (UTC): 17:00 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|-----------|----------------------|----------------|------------------|------------|---------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 10 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet (ml/l) | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | | | | 0.42 | 0.05 | 17.2 | 0.2 | 0.2 | 0.2 | 11.8 | 4.8 | 0.26 | | 1.5 |
| 5 | | | | 0.38 | 0.06 | 16.1 | 0.2 | 0.2 | 0.2 | 14.9 | 7.8 | 0.32 | | 2.6 |
| 10 | | | | 0.38 | 0.04 | 13.6 | 0.2 | 0.2 | 0.2 | 19.1 | 4.7 | 0.28 | | 5.1 |
| 20 | | | | 0.80 | 0.50 | 22.2 | 7.7 | 7.7 | 3.6 | 17.9 | 2.0 | 0.11 | | 5.7 |
| 30 | | | | 0.84 | 0.61 | 18.6 | 8.8 | 8.8 | 4.9 | 8.9 | 1.1 | 0.08 | | 2.2 |
| 50 | | | | 0.83 | 0.66 | 16.4 | 8.8 | 8.8 | 5.0 | | | | | |
| 75 | | | | 0.95 | 0.73 | 17.4 | 8.7 | 8.7 | 5.1 | | | | | |
| 100 | | | | 0.86 | 0.69 | 18.4 | 8.7 | 8.7 | 5.0 | | | | | |
| 150 | | | | 0.89 | 0.70 | 17.2 | 8.9 | 8.9 | 5.1 | | | | | |
| 200 | | | | 0.85 | 0.71 | 16.8 | 9.0 | 9.0 | 5.1 | 5.2 | 0.7 | 0.10 | | |
| 300 | | | | 0.91 | 0.73 | 16.7 | 9.7 | 9.7 | 5.4 | 5.2 | * | | | |

| Stasjon: Lista | | Dato: 07.04.2003 | | Tid (UTC): 18:30 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|-----------|----------------------|----------------|------------------|------------|---------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet (ml/l) | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | 4.74 | 32.705 | | 0.45 | 0.07 | 15.5 | 1.9 | 1.9 | 0.1 | 25.5 | 5.0 | 0.24 | | 6.7 |
| 5 | 4.65 | 32.782 | | 0.57 | 0.08 | 19.2 | 1.9 | 1.9 | 0.1 | 22.1 | 4.4 | 0.23 | | 7.5 |
| 10 | 4.71 | 32.909 | | 0.53 | 0.13 | 17.3 | 2.0 | 2.0 | 0.0 | 22.5 | 5.0 | 0.28 | | 7.3 |
| 20 | 4.66 | 33.203 | | 0.74 | 0.17 | 17.1 | 2.4 | 2.4 | 0.2 | 18.3 | 4.5 | 0.26 | | 7.3 |
| 30 | 4.71 | 33.364 | | 0.63 | 0.24 | 14.7 | 3.3 | 3.3 | 0.1 | 17.2 | 3.9 | 0.24 | | 8.7 |
| 50 | 5.06 | 33.805 | | | | | | | | | | | | 0.5 |
| 75 | 5.10 | 34.102 | | 0.84 | 0.63 | 15.8 | 7.4 | 7.4 | 2.2 | | | | | |
| 100 | 4.86 | 34.171 | | 0.88 | 0.65 | 16.5 | 7.1 | 7.1 | 2.1 | | | | | |
| 150 | 5.07 | 34.372 | | 0.86 | 0.70 | 16.4 | 8.9 | 8.9 | 4.7 | | | | | |
| 200 | 5.41 | 34.484 | | 0.83 | 0.72 | 14.8 | 8.6 | 8.6 | 5.0 | 4.3 | 0.5 | 0.08 | | |
| 300 | 6.93 | 35.009 | | 0.92 | 0.83 | 16.6 | 10.6 | 10.6 | 5.9 | 3.1 | * | | | |

| Stasjon: Lista | | Dato: 07.05.2003 | | Tid (UTC): 17:15 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktedyb (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.72 | 28.698 | 0.45 | 0.04 | 16.2 | 0.1 | 0.8 | 12.8 | 2.2 | 0.13 | | | | 1.1 |
| 5 | 7.66 | 28.737 | 0.43 | 0.11 | 17.0 | 0.2 | 0.8 | 18.0 | 2.5 | 0.15 | | | | 1.5 |
| 10 | 7.39 | 29.050 | 0.45 | 0.05 | 16.6 | 0.2 | 1.0 | 11.5 | 3.7 | 0.21 | | | | 1.9 |
| 20 | 6.66 | 31.674 | 0.36 | 0.14 | 13.3 | 1.7 | 1.1 | 5.0 | 2.4 | 0.18 | | | | 0.2 |
| 30 | 6.39 | 34.319 | 0.71 | 0.50 | 15.9 | 6.2 | 3.3 | 4.3 | 1.3 | 0.07 | | | | 0.2 |
| 50 | 6.76 | 34.886 | 0.97 | 0.78 | 19.0 | 10.1 | 5.7 | | | | | | | 0.1 |
| 75 | 6.82 | 34.950 | 0.95 | 0.77 | 17.8 | 10.0 | 5.8 | | | | | | | |
| 100 | 7.01 | 35.000 | 0.95 | 0.79 | 18.2 | 10.5 | 5.7 | | | | | | | |
| 150 | 7.03 | 35.045 | 1.05 | 0.82 | 19.1 | 11.0 | 6.5 | | | | | | | |
| 200 | 7.06 | 35.095 | 1.19 | 0.91 | 20.2 | 11.8 | 7.3 | 4.8 | 0.5 | 0.03 | | | | |
| 300 | 7.01 | 35.143 | 1.08 | 0.95 | 19.6 | 12.0 | 8.3 | 4.4 | * | | | | | |

| Stasjon: Lista | | Dato: 10.06.2003 | | Tid (UTC): 16:35 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktedyb (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 14.11 | 26.263 | 0.48 | 0.06 | 15.9 | 0.1 | 0.0 | 35.6 | 3.6 | 0.22 | | | | 1.8 |
| 5 | 11.21 | 30.098 | 0.50 | 0.05 | 16.5 | 0.3 | 0.0 | 47.6 | 3.9 | 0.25 | | | | 2.3 |
| 10 | 9.39 | 32.083 | 0.43 | 0.04 | 15.4 | 1.9 | 0.3 | 19.5 | 3.1 | 0.19 | | | | 2.5 |
| 20 | 8.33 | 33.643 | 0.41 | 0.17 | 13.7 | 2.2 | 1.6 | | 1.1 | 0.09 | | | | 0.9 |
| 30 | 8.02 | 34.128 | 0.46 | 0.23 | 11.2 | 1.9 | 1.7 | | 0.7 | 0.06 | | | | 0.5 |
| 50 | 7.77 | 34.442 | 0.48 | 0.30 | 11.3 | 2.1 | 2.1 | | | | | | | 0.3 |
| 75 | 7.59 | 34.517 | 0.57 | 0.32 | 11.1 | 2.3 | 2.3 | | | | | | | |
| 100 | 7.17 | 34.694 | 0.60 | 0.38 | 11.5 | 3.4 | 2.3 | | | | | | | |
| 150 | 6.52 | 34.892 | 0.84 | 0.72 | 14.6 | 9.5 | 4.2 | | | | | | | |
| 200 | 6.71 | 35.012 | 0.87 | 0.80 | 15.5 | 10.7 | 5.5 | 8.8 | 0.3 | 0.02 | | | | |
| 300 | 6.73 | 35.114 | 0.85 | 0.76 | 14.8 | 10.6 | 5.8 | 6.9 | * | | | | | |

| Stasjon: Lista | | Dato: 02.07.2003 | | Tid (UTC): 18:30 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|-------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Sikttdyp (m): 4 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 17.56 | 27.517 | 0.39 | 0.04 | 14.6 | 0.5 | 0.4 | 16.9 | 3.1 | 0.16 | | | | 1.0 |
| 5 | 16.95 | 28.257 | 0.35 | 0.04 | 13.1 | 0.2 | 0.4 | 21.2 | 2.9 | 0.18 | | | | 0.8 |
| 10 | 17.02 | 28.668 | 0.34 | 0.03 | 12.0 | 0.2 | 0.4 | 18.6 | 5.4 | 0.29 | | | | 0.8 |
| 20 | 16.29 | 29.695 | 0.43 | 0.02 | 13.1 | 0.2 | 0.4 | | 2.6 | 0.13 | | | | 0.9 |
| 30 | 16.09 | 29.967 | 0.29 | 0.02 | 11.7 | 0.2 | 0.3 | 17.6 | 2.2 | 0.14 | | | | 0.9 |
| 50 | 8.78 | 34.446 | 0.61 | 0.40 | 11.8 | 3.6 | 2.6 | | | | | | | 0.1 |
| 75 | 7.86 | 34.750 | 0.69 | 0.45 | 13.0 | 4.6 | 2.5 | | | | | | | |
| 100 | 6.95 | 34.827 | 0.86 | 0.62 | 14.8 | 8.1 | 3.1 | | | | | | | |
| 150 | 7.05 | 35.019 | 0.85 | 0.68 | 14.9 | 8.7 | 4.0 | | | | | | | |
| 200 | 6.99 | 35.065 | 0.95 | 0.76 | 15.9 | 10.4 | 4.8 | | 0.7 | 0.02 | | | | |
| 300 | 6.91 | 35.143 | 0.99 | 0.78 | 17.1 | 11.2 | 5.6 | | 9.1 * | | | | | |

| Stasjon: Lista | | Dato: 13.08.2003 | | Tid (UTC): 17:20 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|-------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Sikttdyp (m): 6 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 18.69 | 30.772 | 0.32 | 0.03 | 11.1 | 0.1 | 0.9 | 13.8 | 2.2 | 0.09 | | | | 0.9 |
| 5 | 17.64 | 32.408 | 0.31 | 0.06 | 10.3 | 0.4 | 1.0 | 11.3 | 1.7 | 0.08 | | | | 0.7 |
| 10 | 16.93 | 33.339 | 0.32 | 0.02 | 9.3 | 0.1 | 0.6 | 8.4 | 1.7 | 0.08 | | | | 0.9 |
| 20 | 14.53 | 34.000 | 0.35 | 0.09 | 9.3 | 0.7 | 1.3 | 6.9 | 1.2 | 0.05 | | | | 1.0 |
| 30 | 12.35 | 34.126 | 0.40 | 0.17 | 10.3 | 1.5 | 1.7 | 4.5 | 0.8 | 0.05 | | | | 0.3 |
| 50 | 10.15 | 34.599 | 0.61 | 0.34 | 13.8 | 3.4 | 2.9 | | | | | | | 0.1 |
| 75 | 9.07 | 34.751 | 0.63 | 0.33 | 15.1 | 3.4 | 3.0 | | | | | | | |
| 100 | 8.35 | 34.920 | 0.73 | 0.48 | 16.0 | 5.3 | 3.3 | | | | | | | |
| 150 | 7.16 | 34.950 | 0.92 | 0.69 | 17.2 | 8.8 | 4.1 | | | | | | | |
| 200 | 7.46 | 35.085 | 0.95 | 0.75 | 16.3 | 9.8 | 4.8 | | 3.5 | 0.4 | 0.02 | | | |
| 300 | 7.33 | 35.194 | 1.03 | 0.79 | 18.5 | 11.0 | 5.0 | | 2.7 * | | | | | |

| Stasjon: Lista | | Dato: 10.09.2003 | | Tid (UTC): 16:30 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|-----------|------------------|----------------|------------------|------------|---------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | 16.58 | 30.865 | | 0.29 | 0.04 | 10.9 | 0.2 | 0.2 | 2.3 | 11.2 | 2.3 | 0.15 | | 0.5 |
| 5 | 16.67 | 31.236 | | 0.34 | 0.06 | 10.8 | 0.3 | 0.3 | 2.3 | 13.6 | 1.7 | 0.11 | | 0.7 |
| 10 | 16.71 | 31.284 | | 0.31 | 0.04 | 11.8 | 0.3 | 0.3 | 2.3 | 13.7 | 1.3 | 0.11 | | 0.3 |
| 20 | 16.70 | 31.366 | | 0.29 | 0.05 | 11.5 | 0.2 | 0.2 | 2.1 | 6.9 | 1.2 | 0.07 | | 0.3 |
| 30 | 16.24 | 32.232 | | 0.28 | 0.10 | 9.2 | 0.7 | 0.7 | 2.6 | 4.3 | 1.1 | 0.13 | | 0.2 |
| 50 | 14.28 | 34.070 | | 0.41 | 0.28 | 9.7 | 3.2 | 3.2 | 4.3 | | | | | 0.1 |
| 75 | 11.35 | 34.571 | | 0.56 | 0.37 | 12.8 | 3.8 | 3.8 | 4.3 | | | | | |
| 100 | 9.68 | 34.762 | | 0.76 | 0.47 | 13.9 | 4.8 | 4.8 | 4.7 | | | | | |
| 150 | 8.21 | 35.005 | | 1.07 | 0.48 | 20.8 | 5.7 | 5.7 | 3.9 | | | | | |
| 200 | 7.84 | 35.051 | | 0.77 | 0.66 | 17.1 | 8.7 | 8.7 | 4.1 | 8.0 | 0.7 | 0.06 | | |
| 300 | 7.49 | 35.127 | | 0.79 | 0.77 | 15.3 | 10.6 | 10.6 | 5.5 | 5.7 * | | | | |

| Stasjon: Lista | | Dato: 13.10.2003 | | Tid (UTC): 14:10 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|-----------|------------------|----------------|------------------|------------|---------------------|----------------|-------------|-----------|----------|----------|----------|------------|-------------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 7 | | Siktefarge: | | | | | | |
| Dyp | Temp (°C) | Saltholdighet | Oksygen (ml/l) | TotP (µM) | Po4-P (µM) | Tot-N (µM) | NO3+NO2-N (µM) | NH4-N (µM) | SiO3 (µM) | POC (µM) | PON (µM) | POP (µM) | TSM (mg/l) | Kl-a (µg/l) |
| 0 | 13.93 | 33.023 | | 0.35 | 0.06 | 8.9 | 0.2 | 0.2 | 1.3 | 9.2 | 1.9 | 0.11 | | 1.6 |
| 5 | 13.93 | 33.080 | | 0.35 | 0.06 | 9.4 | 0.3 | 0.3 | 1.3 | 10.7 | 1.8 | 0.09 | | 1.1 |
| 10 | 13.94 | 33.113 | | 0.33 | 0.08 | 9.0 | 0.3 | 0.3 | 1.3 | 9.5 | 2.1 | 0.10 | | 1.5 |
| 20 | 14.21 | 33.652 | | 0.40 | 0.13 | 9.5 | 0.7 | 0.7 | 1.9 | 7.4 | 1.8 | 0.07 | | 0.9 |
| 30 | 14.18 | 33.761 | | 0.39 | 0.14 | 8.7 | 0.9 | 0.9 | 2.1 | 8.5 | 1.1 | 0.08 | | 0.7 |
| 50 | 13.94 | 34.172 | | 0.39 | 0.21 | 9.6 | 1.8 | 1.8 | 2.6 | | | | | 0.2 |
| 75 | 13.58 | 34.279 | | 0.45 | 0.25 | 10.5 | 2.4 | 2.4 | 3.0 | | | | | |
| 100 | 12.53 | 34.505 | | 0.45 | 0.26 | 9.5 | 2.5 | 2.5 | 3.0 | | | | | |
| 150 | 9.88 | 34.905 | | 0.69 | 0.52 | 12.4 | 5.9 | 5.9 | 4.2 | | | | | |
| 200 | 8.81 | 35.042 | | 0.79 | 0.63 | 14.4 | 7.6 | 7.6 | 4.7 | 4.0 | 0.8 | 0.04 | | |
| 300 | 8.06 | 35.150 | | 0.85 | 0.71 | 15.7 | 9.9 | 9.9 | 4.7 | 4.4 * | | | | |

| Stasjon: Lista | | Dato: 08.11.2003 | | Tid (UTC): 06:45 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 8 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 10.05 | 31.559 | 0.41 | 0.18 | 10.6 | 1.2 | 1.2 | 2.3 | 2.3 | 6.0 | 1.2 | 0.08 | 0.8 | 0.8 |
| 5 | 10.08 | 31.615 | 0.40 | 0.17 | 10.5 | 1.2 | 1.1 | 2.3 | 2.3 | 9.3 | 1.2 | 0.07 | 0.8 | 0.8 |
| 10 | 10.22 | 31.711 | 0.39 | 0.16 | 10.8 | 1.1 | 1.4 | 2.4 | 2.4 | 5.4 | 1.0 | 0.07 | 0.8 | 0.8 |
| 20 | 10.36 | 31.993 | 0.42 | 0.16 | 11.0 | 1.4 | 1.5 | 2.1 | 2.1 | 6.9 | 1.0 | 0.08 | 0.8 | 0.8 |
| 30 | 10.64 | 32.401 | 0.34 | 0.14 | 10.3 | 1.5 | 2.4 | 1.9 | 2.8 | 7.1 | 0.3 | 0.04 | 0.6 | 0.6 |
| 50 | 12.62 | 33.868 | 0.41 | 0.24 | 10.1 | 2.4 | 2.3 | 2.8 | 2.8 | | | | | 0.2 |
| 75 | 12.78 | 34.184 | 0.49 | 0.23 | 9.8 | 2.3 | 3.3 | 3.2 | 3.2 | | | | | |
| 100 | 12.21 | 34.509 | 0.45 | 0.32 | 10.5 | 7.1 | 10.0 | 4.5 | 4.5 | | | | | |
| 150 | 9.39 | 35.013 | 0.70 | 0.61 | 13.5 | 10.0 | 11.7 | 5.0 | 5.0 | 4.3 | 0.9 | 0.07 | | |
| 200 | 8.29 | 35.139 | 0.90 | 0.76 | 16.3 | | | 6.1 | 6.1 | | * | | | |
| 300 | 7.45 | 35.240 | 0.89 | 0.86 | 17.3 | | | | | | | | | |

| Stasjon: Lista | | Dato: 08.12.2003 | | Tid (UTC): 09:30 | | Posisjon: N: 58° 1' | | E: 6° 32' | | | | | | |
|----------------|--------|------------------|---------|------------------|-------|---------------------|-----------|-------------|------|------|------|------|--------|--------|
| Skip: Brekne | | Institutt: HFF | | Ekkodyp (m): 310 | | Siktdyp (m): 9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | TotP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 9.82 | 33.782 | 0.50 | 0.38 | 10.5 | 3.6 | 3.6 | 3.5 | 3.5 | 4.7 | 0.6 | 0.03 | 0.2 | 0.2 |
| 5 | 9.82 | 33.857 | 0.50 | 0.36 | 10.3 | 3.6 | 3.6 | 3.5 | 3.5 | 3.9 | 0.4 | 0.02 | 0.2 | 0.2 |
| 10 | 9.82 | 33.882 | 0.49 | 0.37 | 10.1 | 3.6 | 3.2 | 3.5 | 3.5 | 3.6 | 0.5 | 0.02 | 0.1 | 0.1 |
| 20 | 9.89 | 34.044 | 0.52 | 0.39 | 11.6 | 3.7 | 3.8 | 3.6 | 3.6 | 3.2 | 0.5 | 0.03 | 0.1 | 0.1 |
| 30 | 9.94 | 34.068 | 0.52 | 0.39 | 10.7 | 3.7 | 3.8 | 3.7 | 3.7 | 6.6 | 0.3 | 0.02 | 0.1 | 0.1 |
| 50 | 10.24 | 34.388 | 0.57 | 0.41 | 12.0 | 5.6 | 6.6 | 4.1 | 4.1 | | | | | 0.1 |
| 75 | 10.04 | 34.667 | 0.59 | 0.47 | 11.6 | 13.1 | 14.6 | 4.5 | 4.5 | | | | | |
| 100 | 9.75 | 34.837 | 0.75 | 0.57 | 13.1 | 9.2 | 9.9 | 4.7 | 4.7 | | | | | |
| 150 | 8.99 | 35.022 | 0.83 | 0.71 | 14.6 | 17.0 | 11.0 | 4.8 | 4.8 | 3.2 | 0.4 | 0.02 | | |
| 200 | 8.54 | 35.121 | 0.85 | 0.77 | 15.7 | | | 5.8 | 5.8 | 6.3 | * | | | |
| 300 | 7.73 | 35.174 | 0.89 | 0.81 | 17.0 | | | | | | | | | |

* PON og POC ikke oppgitt pga. analysefeil/underkjent i kvalitetssikring.

3.6. Jomfrulandsrennen

| | | | | | | | | | | | | | | |
|----------------------------|--------|------------------|------------------|------------------------|-------------|-------|-----------|-------|------|------|------|------|--------|--------|
| Stasjon: Jomfrulandsrennen | | Dato: 30.01.2003 | Tid (UTC): 15:10 | Posisjon: N: 58° 53.5' | E: 9° 37' | | | | | | | | | |
| Skip: Brusen | | Institutt: NIVA | Ekkodyp (m): 22 | Siktdyp (m): 8.5 | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (ml/l) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 1.15 | 24.724 | | 0.97 | | 42.1 | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 16.02.2003 | Tid (UTC): 15:25 | Posisjon: N: 58° 53.5' | E: 9° 37' | | | | | | | | | |
| Skip: Brusen | | Institutt: NIVA | Ekkodyp (m): 23 | Siktdyp (m): 11 | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (ml/l) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 0.84 | 23.456 | | 0.74 | | 21.1 | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 26.02.2003 | Tid (UTC): 15:15 | Posisjon: N: 58° 53.5' | E: 9° 37' | | | | | | | | | |
| Skip: Brusen | | Institutt: NIVA | Ekkodyp (m): 24 | Siktdyp (m): 5.25 | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (ml/l) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 0.97 | 25.540 | | 0.48 | | 15.7 | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 16.03.2003 | Tid (UTC): 14:45 | Posisjon: N: 58° 53.5' | E: 9° 37' | | | | | | | | | |
| Skip: Brusen | | Institutt: NIVA | Ekkodyp (m): | Siktdyp (m): 11 | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (ml/l) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 2.28 | 21.915 | | 0.29 | | 13.2 | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 26.03.2003 | Tid (UTC): 14:30 | Posisjon: N: 58° 53.5' | E: 9° 37' | | | | | | | | | |
| Skip: Brusen | | Institutt: NIVA | Ekkodyp (m): 20 | Siktdyp (m): 9.4 | Siktefarge: | | | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (ml/l) | (ml/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 4.10 | 27.053 | | 0.45 | | 15.0 | | | | | | | | |

Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Hydrografi/-kjemi/plankton. Datarapport 2003.

| | | | | | | | | | | | | | |
|----------------------------|-----------------|------------------|------------------|------------------------|-------|-------------|-------|------|------|------|------|--------|--------|
| Stasjon: Jomfrulandsrennen | | Dato: 09.04.2003 | Tid (UTC): 07:30 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 11.9 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 3.70 | 25.587 | 0.32 | 15.7 | | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 21.05.2003 | Tid (UTC): 17:20 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 7.5 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 10.93 | 23.376 | 0.29 | 15.7 | | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 22.06.2003 | Tid (UTC): 16:50 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 3.9 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 17.13 | 22.267 | 0.36 | 14.3 | | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 22.07.2003 | Tid (UTC): 18:23 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 9.25 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 19.12 | 27.327 | 0.23 | 11.4 | | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 26.08.2003 | Tid (UTC): 13:20 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 7.1 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 18.04 | 29.534 | 0.39 | 15.0 | | | | | | | | | |
| Stasjon: Jomfrulandsrennen | | Dato: 24.09.2003 | Tid (UTC): 10:10 | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | | |
| Skip: Brusen | Institutt: NIVA | Ekkodyp (m): 20 | | Siktdyp (m): 10.4 | | Siktefarge: | | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | Tot-P | Po4-P | Tot-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 14.87 | 26.805 | 0.36 | 15.0 | | | | | | | | | |

| | | | | | | | | | | | | | | |
|----------------------------|------|------------------|---------|------------------|-------|------------------------|-----------|-------------|------|------|------|------|--------|--------|
| Stasjon: Jomfrulandsrennen | | Dato: 20.10.2003 | | Tid (UTC): 15:35 | | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | |
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 20 | | Siktdyp (m): 7.2 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | ToiP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 9.65 | 27.617 | | 0.39 | | 17.1 | | | | | | | | |

| | | | | | | | | | | | | | | |
|----------------------------|------|------------------|---------|------------------|-------|------------------------|-----------|-------------|------|------|------|------|--------|--------|
| Stasjon: Jomfrulandsrennen | | Dato: 17.11.2003 | | Tid (UTC): 13:25 | | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | |
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 20 | | Siktdyp (m): 12.9 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | ToiP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 7.07 | 24.419 | | 0.52 | | 17.9 | | | | | | | | |

| | | | | | | | | | | | | | | |
|----------------------------|------|------------------|---------|------------------|-------|------------------------|-----------|-------------|------|------|------|------|--------|--------|
| Stasjon: Jomfrulandsrennen | | Dato: 09.12.2003 | | Tid (UTC): 11:15 | | Posisjon: N: 58° 53.5' | | E: 9° 37' | | | | | | |
| Skip: Brusen | | Institutt: NIVA | | Ekkodyp (m): 20 | | Siktdyp (m): 14.1 | | Siktefarge: | | | | | | |
| Dyp | Temp | Saltholdighet | Oksygen | ToiP | Po4-P | Tot-N | NO3+NO2-N | NH4-N | SiO3 | POC | PON | POP | TSM | Kl-a |
| (°C) | | (ml/l) | (mg/l) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (µM) | (mg/l) | (µg/l) |
| 0 | 5.81 | 23.668 | | 0.55 | | 16.4 | | | | | | | | |

3.7. Planteplankton Arendal st 2

| Stasjon ARENDAL 2003 | 07.jan | 23.jan | 17.feb | 17.feb | 17.feb | 27.feb | 17.mar | 28.mar |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tallene angir celler pr. liter | 5m | 5 m | 0 m | 5 m | 10 m | 5m | 5m | 5m |
| CRYPTOPHYCEAE | | | | | | | | |
| cf. Cryptomonas spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Hemiselmis spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 |
| Leucocryptos marina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Plagioselmis spp. | 0 | 1 200 | 0 | 0 | 0 | 0 | 0 | 9 400 |
| cf. Teleaulax acuta | 35 250 | 0 | 0 | 4 680 | 4 700 | 56 400 | 28 200 | 4 700 |
| Ubestemte cryptophyceer | 0 | 2 400 | 0 | 0 | 0 | 0 | 0 | 0 |
| DINOPHYCEAE | | | | | | | | |
| cf. Alexandrium spp. | 0 | 0 | 0 | 40 | 80 | 0 | 0 | 0 |
| Alexandrium cf. ostenfeldii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alexandrium cf. tamarense | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amphidinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 |
| Amphidoma caudata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ceratium arietinum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. furca | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. fusus | 80 | 0 | 0 | 0 | 0 | 40 | 80 | 40 |
| C. horridum | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 |
| C. lineatum | 120 | 760 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. longipes | 40 | 0 | 40 | 0 | 160 | 0 | 0 | 0 |
| C. macroceros | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. tripos | 160 | 40 | 40 | 40 | 280 | 40 | 240 | 0 |
| Cochlodinium sp. | 0 | 240 | 0 | 80 | 0 | 0 | 0 | 0 |
| Dinophysis acuminata | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 |
| D. acuta | 40 | 0 | 0 | 0 | 0 | 80 | 0 | 0 |
| D. norvegica | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 |
| D. rotundata | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 80 |
| Diplopsalis-gruppen | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| Entomosigma peridinioides | 0 | 1 200 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Fragilidium subglabosum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Glenodinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 4 700 |
| Gonyaulax grindleyi | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 |
| G. scrippsaeae/spinifera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G.triactantha | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gymnodinium elongatum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gymnodinium /Gyrodinium | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrodinium spp. | 40 | 0 | 0 | 80 | 0 | 120 | 960 | 2 060 |
| Heterocapsa niei | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H. rotundata | 0 | 1 200 | 0 | 0 | 0 | 0 | 0 | 0 |
| H. triquetra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Karenia mikimotoi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Katodinium glaucum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 300 |
| Pronoctiluca sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Proocentrum aporum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Proocentrum micans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. balticum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protoperdinium bipes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. brevipes | 0 | 80 | 0 | 0 | 40 | 0 | 0 | 0 |
| P. curtipes/crassipes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. depressum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. divergens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. cf. mariae-lebourae | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 40 |
| P. pellucidum | 0 | 0 | 240 | 120 | 0 | 80 | 640 | 0 |
| P. steinii | 80 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| P. spp. | 0 | 40 | 0 | 0 | 0 | 0 | 480 | 0 |
| Pyrocystis lunula-dino | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scrippsiella trochoidea | 0 | 80 | 0 | 0 | 0 | 0 | 80 | 0 |
| Torodinium robustum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ubest. athecate dinoflagellater | 160 | 2 400 | 0 | 0 | 80 | 4 820 | 1 680 | 24 180 |
| Ubest. thecate dinoflagellater | 80 | 80 | 80 | 0 | 80 | 0 | 80 | 240 |
| PRYMNESIOPHYCEAE | | | | | | | | |
| Chrysochromulina spp. | 0 | 5 900 | 0 | 0 | 0 | 0 | 0 | 0 |
| Emiliana huxleyi | 61 100 | 54 050 | 0 | 1 560 | 4 700 | 0 | 0 | 0 |
| Ubestemte coccolithophorider | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHRYSOPHYCEAE | | | | | | | | |
| Apedinella spinifera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calycomonas gracilis/vangoorii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. ovalis | 9 400 | 0 | 0 | 0 | 0 | 9 400 | 0 | 0 |
| Dinobryon faculiferum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D. sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Stasjon ARENDAL 2003 | 07.jan | 23.jan | 17.feb | 17.feb | 17.feb | 27.feb | 17.mar | 28.mar |
|---|--------|--------|---------|---------|---------|---------|--------|---------|
| Tallene angir celler pr. liter | 5m | 5 m | 0 m | 5 m | 10 m | 5m | 5m | 5m |
| Pseudopedinella sp. | 0 | 0 | 0 | 1 560 | 0 | 0 | 0 | 0 |
| DICTYOCOPHYCEAE | | | | | | | | |
| Dictyocha fibula | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dictyocha speculum | 240 | 240 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dictyocha speculum, flagellat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BACILLARIOPHYCEAE | | | | | | | | |
| Amphiprora sp. | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 |
| Asterionella glacialis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Attheya septentrionalis | 0 | 0 | 0 | 1 560 | 0 | 0 | 0 | 0 |
| Cerataulina pelagica | 80 | 0 | 0 | 0 | 0 | 40 | 0 | 0 |
| Chaetoceros borealis | 0 | 0 | 1 300 | 960 | 800 | 0 | 0 | 0 |
| C. compressus | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 |
| C. constrictus | 0 | 0 | 1 200 | 4 960 | 2 800 | 0 | 0 | 155 100 |
| C. curvisetus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. danicus | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 0 |
| C. debilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. decipiens | 0 | 0 | 400 | 800 | 0 | 0 | 0 | 0 |
| C. diadema | 0 | 0 | 0 | 0 | 1 120 | 0 | 0 | 0 |
| C. didymus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. cf. gracilis | 0 | 0 | 0 | 2 350 | 0 | 0 | 0 | 0 |
| C. laciniosus | 0 | 0 | 14 100 | 16 000 | 4 960 | 0 | 0 | 0 |
| C. socialis | 0 | 0 | 320 | 4 200 | 98 640 | 0 | 0 | 7 776' |
| C. subtilis | 0 | 1 200 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. tenuissimus | 2 350 | 0 | 9 400 | 9 400 | 1 200 | 0 | 0 | 0 |
| C. thronsdonii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. wighamii | 0 | 0 | 7 500 | 0 | 0 | 0 | 0 | 0 |
| C. sp.1 solitær | 0 | 0 | 3 600 | 4 800 | 4 000 | 0 | 0 | 0 |
| C. spp., Hyalochaete | 80 | 1 240 | 11 500 | 12 280 | 640 | 686 200 | 33 800 | 126 900 |
| Coscinodiscus sp. | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cylindrotheca closterium | 40 | 160 | 900 | 0 | 1 200 | 0 | 0 | 0 |
| Dactyliosolen fragilissimus | 0 | 0 | 1 500 | 80 | 320 | 0 | 0 | 0 |
| cf. Detonula confervaceae | 0 | 0 | 0 | 0 | 2 400 | 0 | 0 | 0 |
| Diatoma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ditylum brightwellii | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 |
| Eucampia groenlandica | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Guinardia delicatula | 160 | 160 | 1 800 | 240 | 2 700 | 37 600 | 3 600 | 0 |
| G. flaccida | 0 | 160 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrosigma/Pleurosigma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leptocylindrus danicus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paralia sulcata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Proboscia alata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pseudo-nitzschia pseudo-/delicatissima | 80 | 280 | 0 | 0 | 0 | 65 800 | 0 | 9 400 |
| P. delicatissima | 0 | 0 | 10 800 | 8 400 | 9 000 | 0 | 0 | 0 |
| P. pungens f. multiseriis | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. pungens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. seriata | 0 | 0 | 0 | 320 | 0 | 0 | 0 | 0 |
| Rhizosolenia hebetata f. semispina | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 |
| R. imbricata var. shrubsolei | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. pungens | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. cf. setigera | 40 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| R. sp. | 0 | 0 | 0 | 0 | 0 | 440 | 140 | 0 |
| Skeletonema costatum | 5 100 | 6 120 | 276 000 | 327 600 | 210 800 | 2 265' | 0 | 0 |
| Thalassionema nitzschioides | 120 | 800 | 1 800 | 1 200 | 2 640 | 23 500 | 0 | 0 |
| Thalassiosira cf. angulata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thalassiosira cf. nordenskiöldii | 0 | 0 | 2 400 | 5 100 | 1 500 | 197 400 | 0 | 253 800 |
| Thalassiosira spp. | 0 | 0 | 600 | 0 | 0 | 75 200 | 0 | 0 |
| Ubestemte sentriske diatomeer | 2 350 | 0 | 680 | 320 | 0 | 51 700 | 29 800 | 150 560 |
| Ubestemte pennate | 40 | 120 | 0 | 5 000 | 14 400 | 0 | 0 | 0 |
| RAPHIDOPHYCEAE | | | | | | | | |
| Chattonella cf. verriculosa | 0 | 40 | 0 | 0 | 0 | 9 400 | 0 | 0 |
| Heterosigma sp. | 1 200 | 0 | 0 | 1 180 | 0 | 0 | 0 | 0 |
| EUGLENOPHYCEAE | | | | | | | | |
| Eutreptia/ Eutreptiella spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Euglena sp | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| PRASINOPHYCEAE | | | | | | | | |
| Pterosperma cristatum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pterosperma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramimonas disomata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramimonas spp. | 0 | 0 | 0 | 1 560 | 0 | 0 | 0 | 0 |
| CHLOROPHYCEAE | | | | | | | | |
| Ubestemt desmidiace | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UKLASSIFISERTE ALGER | | | | | | | | |
| Flagellater med intakt flagell, 2-15 µm | 7 050 | 9 400 | 0 | 0 | 9 400 | 0 | 0 | 0 |
| Monader, 2-15 µm | 58 750 | 28 200 | 94 000 | 103 400 | 305 500 | 340 100 | 36 800 | 127 500 |

| ARENDA 2003 | 07.jan | 23.jan | 17.feb | 17.feb | 17.feb | 27.feb | 17.mar | 28.mar |
|---------------------------------|--------|---------|---------|---------|--------|--------|--------|--------|
| Tallene angir celler pr. liter | 5m | 5 m | 0 m | 5 m | 10 m | 5m | 5m | 5m |
| Coccer <2 µm | 3 008' | 714 400 | 3 308' | 3 233' | 1 128' | 5 813' | 3 171' | 4 983' |
| Cyste | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Uklassifisert alge | 0 | 0 | 5 414' | 0 | 0 | 0 | 0 | 0 |
| CHOANOFLAGELLIDEA | | | | | | | | |
| Ubestemte krageflagellater | 0 | 1 200 | 0 | 3 120 | 0 | 0 | 0 | 0 |
| KINETOPLASTIDEA | | | | | | | | |
| Telonema subtilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heterotrofe flagellater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EBRIIDEA | | | | | | | | |
| Ebria tripartita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ARENDA 2003 | 15.apr | 05.mai | 16.mai | 31.mai | 13.jun | 01.jul | 15.jul | 05.aug |
| Tallene angir celler pr. liter | 5m | 5m | 5 m | 5m | 5 m | 5m | 5m | 5 m |
| CRYPTOPHYCEAE | | | | | | | | |
| cf. Cryptomonas spp. | 0 | 0 | 0 | 2 350 | 0 | 0 | 0 | 0 |
| cf. Hemiselmis spp. | 0 | 0 | 0 | 9 400 | 0 | 79 900 | 4 700 | 4 700 |
| Leucocryptos marina | 2 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Plagioselmis spp. | 56 400 | 4 700 | 14 100 | 0 | 0 | 75 200 | 47 000 | 65 800 |
| cf. Teleaulax acuta | 44 650 | 61 100 | 122 200 | 9 400 | 0 | 98 700 | 18 800 | 0 |
| Ubestemte cryptophyceer | 0 | 0 | 4 700 | 0 | 0 | 0 | 0 | 0 |
| DINOPHYCEAE | | | | | | | | |
| cf. Alexandrium spp. | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| Alexandrium cf. ostenfeldii | 0 | 0 | 720 | 160 | 0 | 0 | 0 | 0 |
| Alexandrium cf. tamarense | 0 | 0 | 880 | 0 | 0 | 0 | 0 | 0 |
| Amphidinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amphidoma caudata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ceratium arietinum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. furca | 0 | 0 | 0 | 160 | 0 | 480 | 240 | 0 |
| C. fusus | 40 | 0 | 160 | 160 | 0 | 480 | 120 | 80 |
| C. horridum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. lineatum | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 |
| C. longipes | 200 | 0 | 240 | 0 | 0 | 160 | 0 | 0 |
| C. macroceros | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 |
| C. tripos | 80 | 160 | 80 | 640 | 160 | 320 | 280 | 40 |
| Cochlodinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dinophysis acuminata | 40 | 40 | 4 080 | 1 920 | 960 | 0 | 0 | 40 |
| D. acuta | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 40 |
| D. norvegica | 40 | 160 | 320 | 0 | 80 | 80 | 40 | 0 |
| D. rotundata | 80 | 0 | 80 | 0 | 80 | 80 | 40 | 0 |
| Diplopsalis-gruppen | 0 | 0 | 300 | 300 | 0 | 0 | 0 | 0 |
| Entomosigma peridinioides | 0 | 0 | 0 | 0 | 0 | 0 | 9 400 | 14 100 |
| cf. Fragilidium subglabrum | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 |
| cf. Glenodinium sp. | 0 | 0 | 0 | 4 700 | 0 | 0 | 0 | 0 |
| Gonyaulax grindleyi | 0 | 0 | 320 | 2 080 | 0 | 0 | 0 | 0 |
| G. scrippsae/spinifera | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 |
| G.triactantha | 0 | 40 | 80 | 0 | 0 | 0 | 0 | 0 |
| Gymnodinium elongatum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gymnodinium /Gyrodinium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrodinium spp. | 0 | 0 | 1 500 | 1 200 | 4 700 | 0 | 0 | 0 |
| Heterocapsa niei | 0 | 0 | 0 | 7 050 | 2 350 | 0 | 9 400 | 14 100 |
| H. rotundata | 0 | 103 400 | 0 | 4 700 | 0 | 0 | 4 700 | 42 300 |
| H. triquetra | 0 | 0 | 900 | 900 | 80 | 0 | 0 | 0 |
| Karenia mikimotoi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Katodinium glaucum | 1 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pronoctiluca sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Proocentrum aporum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Proocentrum micans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| P. minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| P. balticum | 0 | 0 | 0 | 98 700 | 9 400 | 0 | 0 | 0 |
| Protoperdinium bipes | 0 | 0 | 0 | 4 700 | 0 | 0 | 0 | 600 |
| P. brevipes | 0 | 40 | 160 | 0 | 80 | 0 | 0 | 0 |
| P. curtipes/crassipes | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| P. depressum | 40 | 0 | 160 | 400 | 0 | 0 | 0 | 0 |
| P. divergens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. cf. mariae-lebourae | 0 | 0 | 160 | 0 | 0 | 0 | 0 | 0 |
| P. pellucidum | 0 | 120 | 480 | 0 | 0 | 0 | 0 | 0 |
| P. steinii | 0 | 120 | 400 | 560 | 0 | 0 | 0 | 0 |
| P. spp. | 80 | 40 | 320 | 300 | 160 | 160 | 40 | 0 |
| Pyrocystis lunula-dino | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Scrippsiella trochoidea | 0 | 0 | 7 200 | 1 440 | 80 | 160 | 0 | 0 |
| Torodinium robustum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Ubest. thecate dinoflagellater | 16 450 | 35 500 | 31 500 | 109 300 | 19 480 | 28 360 | 33 140 | 33 060 |
| Ubest. athecate dinoflagellater | 0 | 120 | 80 | 0 | 280 | 0 | 0 | 4 740 |

| ARENDA 2003 | 15.apr | 05.mai | 16.mai | 31.mai | 13.jun | 01.jul | 15.jul | 05.aug |
|--|--------|---------|---------|---------|--------|---------|---------|---------|
| Tallene angir celler pr. liter | 5m | 5m | 5 m | 5m | 5 m | 5m | 5m | 5 m |
| PRYMNESIOPHYCEAE | | | | | | | | |
| Chrysochromulina spp. | 0 | 0 | 0 | 0 | 0 | 18 800 | 9 400 | 0 |
| Emiliania huxleyi | 0 | 0 | 37 600 | 230 300 | 75 200 | 761 400 | 178 600 | 453 600 |
| Ubestemte coccolithophorider | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHRYSOPHYCEAE | | | | | | | | |
| Apedinella spinifera | 0 | 4 700 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calycomonas gracilis/vangoorii | 0 | 23 500 | 9 400 | 103 400 | 4 700 | 0 | 32 900 | 0 |
| C. ovalis | 0 | 0 | 4 700 | 18 800 | 0 | 0 | 28 200 | 28 200 |
| Dinobryon faculiferum | 0 | 0 | 4 700 | 0 | 0 | 0 | 0 | 0 |
| D. sp. | 23 500 | 94 000 | 9 400 | 0 | 0 | 0 | 9 400 | 0 |
| Pseudopedinella sp. | 0 | 14 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| DICTYOCOPHYCEAE | | | | | | | | |
| Dictyocha fibula | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dictyocha speculum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dictyocha speculum, flagellat | 0 | 0 | 0 | 4 700 | 0 | 0 | 9 400 | 0 |
| BACILLARIOPHYCEAE | | | | | | | | |
| Amphiprora sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asterionella glacialis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Attheya septentrionalis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cerataulina pelagica | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chaetoceros borealis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. compressus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. constrictus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. curvisetus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. danicus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. debilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. decipiens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. diadema | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. didymus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. cf. gracilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. lacinosus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. socialis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. subtilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. tenuissimus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. thronsenii | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 | 0 |
| C. wighamii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. sp. 1 solitær | 0 | 0 | 0 | 9 400 | 0 | 0 | 0 | 0 |
| C. spp., Hyalochaete | 0 | 150 440 | 51 700 | 75 200 | 14 100 | 0 | 0 | 0 |
| Coccinodiscus sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cylindrotheca closterium | 0 | 0 | 4 700 | 0 | 0 | 0 | 0 | 4 700 |
| Dactyliosolen fragilissimus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Detonula confervaceae | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diatoma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ditylum brightwellii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Eucampia groenlandica | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Guinardia delicatula | 0 | 0 | 0 | 9 400 | 0 | 0 | 0 | 0 |
| G. flaccida | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrosigma/Pleurosigma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leptocylindrus danicus | 0 | 0 | 51 700 | 1 024' | 0 | 0 | 0 | 0 |
| Paralia sulcata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Proboscia alata | 0 | 0 | 1 200 | 21 600 | 4 500 | 240 | 2 100 | 0 |
| Pseudo-nitzschia pseudo-/delicatissima | 0 | 0 | 18 800 | 79 900 | 0 | 0 | 0 | 0 |
| P. delicatissima | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 |
| P. pungens f. multiseries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. pungens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. seriata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhizosolenia hebetata f. semispina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. imbricata var. shrubsolei | 0 | 0 | 0 | 0 | 5 100 | 0 | 0 | 0 |
| R. pungens | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. cf. setigera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. sp. | 0 | 0 | 990 | 0 | 0 | 0 | 0 | 0 |
| Skeletonema costatum | 0 | 23 500 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thalassionema nitzschioides | 0 | 0 | 300 | 18 800 | 0 | 0 | 300 | 0 |
| Thalassiosira cf. angulata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thalassiosira cf. nordenskioeldii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thalassiosira spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ubestemte sentriske diatomeer | 0 | 80 | 104 100 | 10 800 | 300 | 160 | 451 600 | 37 600 |
| Ubestemte pennate | 0 | 0 | 4 700 | 0 | 0 | 0 | 0 | 0 |
| RAPHIDOPHYCEAE | | | | | | | | |
| Chattonella cf. verruculosa | 2 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heterosigma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ARENDALE 2003 | 15.apr | 05.mai | 16.mai | 31.mai | 13.jun | 01.jul | 15.jul | 05.aug |
|---|---------|---------|--------|---------|---------|---------|---------|---------|
| Tallene angir celler pr. liter | 5m | 5m | 5 m | 5m | 5 m | 5m | 5m | 5 m |
| EUGLENOPHYCEAE | | | | | | | | |
| Eutreptia/ Eutreptiella spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Euglena sp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRASINOPHYCEAE | | | | | | | | |
| Pterosperma cristatum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pterosperma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramimonas disomata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramimonas spp. | 2 350 | 61 100 | 9 400 | 56 400 | 0 | 0 | 9 400 | 14 100 |
| CHLOROPHYCEAE | | | | | | | | |
| Ubestemt desmidiace | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UKLASSIFISERTE ALGER | | | | | | | | |
| Flagellater med intakt flagell, 2-15 µm | 28 200 | 37 600 | 28 200 | 404 200 | 0 | 206 800 | 319 600 | 642 600 |
| Monader, 2-15 µm | 28 200 | 338 400 | 28 200 | 676 800 | 28 200 | 394 800 | 526 400 | 2 022' |
| Coccer <2 µm | 0 | 3 171' | 3 624' | 15 326' | 18 800 | 3 548' | 75 200 | 151 200 |
| Cyste | 263 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Uklassifisert alge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHOANOFLAGELLIDEA | | | | | | | | |
| Ubestemte krageflagellater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KINETOPLASTIDEA | | | | | | | | |
| Telonema subtilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heterotrofe flagellater | 0 | 0 | 0 | 0 | 0 | 0 | 9 400 | 0 |
| EBRIIDEA | | | | | | | | |
| Ebria tripartita | 0 | 40 | 0 | 0 | 0 | 0 | 80 | 0 |
| ARENDALE 2003 | | | | | | | | |
| Tallene angir celler pr. liter | 18.aug | 12.sep | 18.sep | 03.okt | 17.okt | 01.nov | 13.nov | 07.des |
| | 5 m | 5 m | 5 m | 5 m | 5 m | 5m | 5 m | 5 m |
| CRYPTOPHYCEAE | | | | | | | | |
| cf. Cryptomonas spp. | 0 | 0 | 2 350 | 0 | 4 700 | 0 | 4 700 | 0 |
| cf. Hemiselmis spp. | 0 | 0 | 0 | 0 | 9 400 | 0 | 0 | 0 |
| Leucocryptos marina | 4 700 | 0 | 0 | 0 | 4 700 | 0 | 0 | 0 |
| cf. Plagioselmis spp. | 0 | 11 750 | 4 700 | 9 400 | 347 800 | 9 400 | 7 050 | 0 |
| cf. Teleaulax acuta | 0 | 21 150 | 9 400 | 9 400 | 84 600 | 18 800 | 21 150 | 4 700 |
| Ubestemte cryptophyceer | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DINOPHYCEAE | | | | | | | | |
| cf. Alexandrium spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alexandrium cf. ostenfeldii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alexandrium cf. tamarense | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amphidinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amphidoma caudata | 0 | 0 | 0 | 0 | 0 | 320 | 80 | 0 |
| Ceratium arietinum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. furca | 0 | 120 | 40 | 0 | 0 | 0 | 440 | 160 |
| C. fusus | 0 | 40 | 40 | 0 | 0 | 0 | 800 | 440 |
| C. horridum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. lineatum | 0 | 40 | 0 | 0 | 0 | 0 | 3 600 | 600 |
| C. longipes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. macroceros | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. tripos | 0 | 40 | 120 | 40 | 0 | 0 | 320 | 320 |
| Cochlodinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 80 |
| Dinophysis acuminata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| D. acuta | 0 | 80 | 0 | 0 | 0 | 0 | 320 | 0 |
| D. norvegica | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D. rotundata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diplopsalis-gruppen | 0 | 0 | 0 | 0 | 0 | 240 | 0 | 0 |
| Entomosigma peridinioides | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 | 0 |
| cf. Fragilidium subglubosum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cf. Glenodinium sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gonyaulax grindleyi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G. scrippsae/spinifera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G.triacantha | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gymnodinium elongatum | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 |
| Gymnodinium /Gyrodinium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrodinium spp. | 0 | 80 | 80 | 0 | 0 | 0 | 0 | 0 |
| Heterocapsa niei | 0 | 47 000 | 2 350 | 0 | 14 100 | 9 400 | 9 400 | 0 |
| H. rotundata | 4 700 | 0 | 0 | 2 350 | 0 | 0 | 0 | 0 |
| H. triquetra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Karenia mikimotoi | 0 | 0 | 0 | 0 | 0 | 40 | 21 150 | 0 |
| Katodinium glaucum | 300 | 80 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pronoctiluca sp. | 0 | 80 | 160 | 0 | 0 | 0 | 0 | 0 |
| cf. Prorocentrum aporum | 0 | 0 | 0 | 0 | 0 | 0 | 320 | 0 |
| Prorocentrum micans | 0 | 320 | 80 | 0 | 0 | 0 | 80 | 0 |
| P. minimum | 0 | 16 450 | 0 | 0 | 0 | 80 | 4 700 | 0 |
| P. balticum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ARENDALE 2003 | 18.aug | 12.sep | 18.sep | 03.okt | 17.okt | 01.nov | 13.nov | 07.des |
|--|--------|---------|--------|--------|---------|---------|---------|--------|
| Tallene angir celler pr. liter | 5 m | 5 m | 5 m | 5 m | 5 m | 5m | 5 m | 5 m |
| Protoperdinium bipes | 0 | 80 | 0 | 0 | 0 | 0 | 80 | 80 |
| P. brevipes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. curtipes/crassipes | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. depressum | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| P. divergens | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| P. cf. mariae-lebourae | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P. pellucidum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| P. steinii | 0 | 160 | 240 | 0 | 0 | 0 | 0 | 0 |
| P. spp. | 0 | 0 | 320 | 80 | 0 | 0 | 0 | 0 |
| Pyrocystis lunula-dino | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scrippsiella trochoidea | 0 | 80 | 160 | 80 | 0 | 40 | 80 | 0 |
| Torodinium robustum | 1 200 | 320 | 0 | 0 | 0 | 80 | 0 | 0 |
| Ubest. athecate dinoflagellater | 48 440 | 79 430 | 10 160 | 15 160 | 42 620 | 17 710 | 19 120 | 2 780 |
| Ubest. thecate dinoflagellater | 1 200 | 4 860 | 80 | 680 | 0 | 0 | 320 | 80 |
| PRYMNESIOPHYCEAE | | | | | | | | |
| Chrysochromulina spp. | 0 | 0 | 14 100 | 4 700 | 56 400 | 14 100 | 9 400 | 14 100 |
| Emiliania huxleyi | 65 800 | 112 800 | 0 | 16 450 | 817 800 | 338 400 | 183 300 | 51 700 |
| Ubestemte coccolithophorider | 0 | 9 400 | 0 | 7 050 | 9 400 | 11 600 | 14 100 | 0 |
| CHRYSOPHYCEAE | | | | | | | | |
| Apedinella spinifera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calycomonas gracilis/vangoorii | 0 | 4 700 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. ovalis | 0 | 0 | 0 | 0 | 0 | 4 700 | 0 | 0 |
| Dinobryon faculiferum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D. sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pseudopedinella sp. | 0 | 0 | 0 | 0 | 14 100 | 0 | 2 350 | 4 700 |
| DICTYOCOPHYCEAE | | | | | | | | |
| Dictyocha fibula | 0 | 80 | 80 | 0 | 0 | 0 | 0 | 0 |
| Dictyocha speculum | 160 | 0 | 0 | 0 | 0 | 80 | 240 | 400 |
| Dictyocha speculum, flagellat | 4 700 | 0 | 0 | 4 700 | 0 | 9 400 | 0 | 0 |
| BACILLARIOPHYCEAE | | | | | | | | |
| Amphiprora sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asterionella glacialis | 0 | 560 | 640 | 0 | 0 | 0 | 0 | 0 |
| Attheya septentrionalis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cerataulina pelagica | 0 | 0 | 2 400 | 80 | 0 | 2 700 | 80 | 240 |
| Chaetoceros borealis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. compressus | 0 | 0 | 3 000 | 0 | 0 | 0 | 0 | 0 |
| C. constrictus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. curvisetus | 0 | 0 | 1 800 | 0 | 0 | 160 | 0 | 0 |
| C. danicus | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 80 |
| C. debilis | 0 | 0 | 720 | 0 | 0 | 0 | 0 | 0 |
| C. decipiens | 0 | 0 | 320 | 0 | 0 | 760 | 0 | 0 |
| C. diadema | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. didymus | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 0 |
| C. cf. gracilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. laciniosus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. socialis | 0 | 0 | 30 500 | 0 | 0 | 3 000 | 0 | 0 |
| C. subtilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. tenuissimus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. thronsenii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. wighamii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. sp.1 solitær | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C. spp., Hyalochaete | 0 | 96 350 | 15 500 | 0 | 0 | 15 140 | 0 | 0 |
| Coscinodiscus sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cylindrotheca closterium | 0 | 160 | 1 500 | 160 | 160 | 900 | 80 | 320 |
| Dactyliosolen fragilissimus | 0 | 480 | 2 560 | 320 | 300 | 0 | 0 | 0 |
| cf. Detonula confervaceae | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diatoma sp. | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 |
| Ditylum brightwellii | 0 | 320 | 240 | 0 | 0 | 80 | 0 | 0 |
| Eucampia groenlandica | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 |
| Guinardia delicatula | 0 | 0 | 0 | 0 | 0 | 0 | 3 200 | 480 |
| G. flaccida | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gyrosigma/Pleurosigma | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Leptocylindrus danicus | 0 | 8 200 | 3 600 | 0 | 1 500 | 0 | 0 | 0 |
| Paralia sulcata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 320 |
| Proboscia alata | 0 | 1 280 | 450 | 0 | 0 | 0 | 480 | 0 |
| Pseudo-nitzschia pseudo-/delicatissima | 0 | 0 | 0 | 240 | 8 340 | 244 950 | 0 | 0 |
| P. delicatissima | 0 | 0 | 15 300 | 640 | 0 | 0 | 720 | 80 |
| P. pungens f. multiseriis | 0 | 6 800 | 0 | 160 | 0 | 0 | 0 | 0 |
| P. pungens | 0 | 0 | 2 400 | 0 | 0 | 0 | 0 | 80 |
| P. seriata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhizosolenia hebetata f. semispina | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. imbricata var. shrubsolei | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 |
| R. pungens | 0 | 480 | 160 | 0 | 0 | 160 | 80 | 40 |

| ARENDA 2003 | 18.aug | 12.sep | 18.sep | 03.okt | 17.okt | 01.nov | 13.nov | 07.des |
|---|---------|---------|---------|---------|---------|---------|---------|--------|
| Tallene angir celler pr. liter | 5 m | 5 m | 5 m | 5 m | 5 m | 5m | 5 m | 5 m |
| R. cf. setigera | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 0 |
| R. sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skeletonema costatum | 0 | 0 | 4 200 | 320 | 0 | 9 500 | 2 240 | 2 640 |
| Thalassionema nitzschioides | 0 | 560 | 80 | 240 | 2 720 | 2 100 | 160 | 1 040 |
| Thalassiosira cf. angulata | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 1 040 |
| Thalassiosira cf. nordenskiöldii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thalassiosira spp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ubestemte sentriske diatomeer | 0 | 7 370 | 7 950 | 40 | 9 400 | 2 400 | 29 640 | 1 440 |
| Ubestemte pennate | 80 | 160 | 0 | 0 | 0 | 300 | 160 | 0 |
| RAPHIDOPHYCEAE | | | | | | | | |
| Chattonella cf. verruculosa | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heterosigma sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EUGLENOPHYCEAE | | | | | | | | |
| Eutreptia/ Eutreptiella spp. | 0 | 0 | 0 | 80 | 0 | 0 | 80 | 0 |
| cf. Euglena sp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRASINOPHYCEAE | | | | | | | | |
| Pterosperma cristatum | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 |
| Pterosperma sp. | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pyramimonas disomata | 0 | 0 | 0 | 0 | 0 | 4 700 | 0 | 0 |
| Pyramimonas spp. | 0 | 0 | 0 | 4 700 | 0 | 9 400 | 0 | 0 |
| CHLOROPHYCEAE | | | | | | | | |
| Ubestemt desmidiace | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UKLASSIFISERTE ALGER | | | | | | | | |
| Flagellater med intakt flagell, 2-15 µm | 9 400 | 206 800 | 28 200 | 9 400 | 70 500 | 65 800 | 32 900 | 9 400 |
| Monader, 2-15 µm | 112 800 | 94 000 | 68 150 | 47 000 | 282 000 | 75 200 | 56 400 | 37 600 |
| Coccer <2 µm | 329 000 | 1 512' | 173 900 | 197 400 | 0 | 827 200 | 206 800 | 2 038' |
| Cyste | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Uklassifisert alge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CHOANOFLLAGELLIDEA | | | | | | | | |
| Ubestemte krageflagellater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 |
| KINETOPLASTIDEA | | | | | | | | |
| Telonema subtilis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 700 |
| Heterotrofe flagellater | 4 700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EBRIIDEA | | | | | | | | |
| Ebria tripartita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

3.8 Zooplankton Arendal st 2.

| Gruppe ant/m2 \ Dato | 07.01.03 | 23.01.03 | 17.02.03 | 27.02.03 | 17.03.03 | 28.03.03 | 15.04.03 |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|
| Cal.kop.naupl. | 13056 | 1920 | 15872 | 79872 | 36864 | 65024 | 49664 |
| Calanus spp. | 480 | 584 | 896 | 5856 | 5552 | 25088 | 75264 |
| Cal.I-III | | 128 | 256 | 4608 | 5120 | 24576 | 51712 |
| Cal.IV-VI | 480 | 456 | 640 | 1248 | 432 | 512 | 23552 |
| Andre calanoide kop. | 24704 | 18432 | 64512 | 70656 | 62976 | 82944 | 139264 |
| Pseudo/Paracal. | 24448 | 17280 | 50432 | 60416 | 49664 | 66560 | 101376 |
| Acartia longi. | 256 | 256 | 6144 | 512 | 1024 | 512 | |
| Centropages spp. | | | 768 | | | | 512 |
| Temora longi. | | 128 | 5632 | 9728 | 11776 | 15872 | 37376 |
| Metridia lucens | 384 | 104 | 96 | 304 | | | |
| Microcal.pusill. | | 768 | 1536 | | 512 | | |
| Eurothemora spp. | | | | | | | |
| Candacia armata | | | | | 16 | | |
| Andre kop. | | | | | | | |
| Cyclopoide kop. | 28160 | 9472 | 45824 | 96256 | 48128 | 42496 | 23552 |
| Oithona helg./similis | 28160 | 9472 | 45824 | 93696 | 47616 | 42496 | 23552 |
| Oncaea spp | | | | 2560 | 512 | | |
| Other zoopl | 0 | 168 | 27584 | 16000 | 18928 | 33824 | 65792 |
| Euph.naupl. | | | 1280 | 6656 | 6144 | 4096 | 37376 |
| Ostrachoda | | | | | | | |
| Cladocera | | | | | | | |
| Cirriped larver | | | 12288 | 6144 | 6656 | 3072 | |
| Chaetognatha | | 24 | 192 | 128 | 112 | 32 | 256 |
| Mollusca | | | | 1536 | | 3584 | 5120 |
| Appendicularia | | 16 | 13056 | | 5632 | 11264 | 20480 |
| Echinodermata | | | | | | | |
| Polychaeta | | 128 | | 1536 | 384 | 11776 | 2560 |
| Harpactico | | | 768 | | | | |
| Euphauciacea | | 8 | | 32 | | | |
| Amphipoda | | 16 | | | | | 64 |
| Decapoda | | | | | | | |
| Ctenophora | | | | | | 6 | 2 |
| dyr>1000µm | 0,120 | 0,296 | 0,272 | 0,088 | 0,048 | 0,176 | 0,384 |
| 200µm<dyr<1000µm | 0,136 | 0,160 | 0,944 | 1,520 | 0,944 | 1,976 | 2,952 |
| Totalt | 0,256 | 0,456 | 1,216 | 1,608 | 0,992 | 2,152 | 3,336 |
| Chl.a int(50)µg/l | 0,25 | 0,30 | 0,53 | 4,38 | 3,99 | 7,22 | 0,31 |
| Kommentar zoopl | | | | 1) | 1) | | |

| Gruppe ant/m2 \ Dato | 05.05.03 | 16.05.03 | 31.05.03 | 13.06.03 | 01.07.03 | 15.07.03 | 05.08.03 | 18.08.03 |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cal.kop.naupl. | 6144 | | 256 | 1536 | 9216 | 14336 | 4096 | 6144 |
| Calanus spp. | 20032 | 2208 | 736 | 6400 | 35456 | 15104 | 7168 | 4800 |
| Cal.I-III | 6400 | 128 | 256 | 256 | 12544 | 640 | 512 | 512 |
| Cal.IV-VI | 13632 | 2080 | 480 | 6144 | 22912 | 14464 | 6656 | 4288 |
| Andre calanoide kop. | 70912 | 1152 | 15872 | 25088 | 330752 | 447488 | 203776 | 198656 |
| Pseudo/Paracal. | 60928 | 960 | 8448 | 11008 | 149504 | 233472 | 133120 | 120320 |
| Acartia longi. | 1536 | 192 | 6144 | 8960 | 135168 | 155648 | 42496 | 31744 |
| Centropages spp. | 2560 | | 768 | 128 | 3072 | 12288 | 23552 | 43520 |
| Temora longi. | 4608 | | 512 | 4992 | 41984 | 46080 | 4608 | 3072 |
| Metridia lucens | 1408 | 160 | 48 | 448 | 384 | 384 | | |
| Microcal.pusill. | 1280 | | | | | | | |
| Eurothemora spp. | | | | | 1024 | | | |
| Candacia armata | | | | | | | | 64 |
| Andre kop. | 64 | | | | | | | |
| Cyclopoide kop. | 25856 | 704 | 5888 | 21888 | 284672 | 154624 | 181760 | 125952 |
| Oithona helg./similis | 25856 | 704 | 5888 | 21888 | 284672 | 154624 | 181760 | 125952 |
| Oncaea spp | | | | | | | | |
| Other zoopl | 14592 | 39472 | 47104 | 32704 | 84224 | 72704 | 42112 | 23680 |
| Euph.naupl. | | | | 384 | 17408 | 1024 | 6144 | 512 |
| Ostrachoda | | | | | | | | |
| Cladocera | 4352 | 33024 | 40960 | 29568 | 23552 | 27648 | 2048 | 22016 |
| Cirriped larver | 6656 | 4160 | 1792 | 896 | | | | |
| Chaetognatha | | 48 | | | 1280 | | 128 | 128 |
| Mollusca | 2560 | | | 640 | 23552 | 40960 | 7168 | |
| Appendicularia | 512 | | | | | | | |
| Echinodermata | | 1280 | 3584 | 384 | 17408 | 3072 | 26624 | |
| Polychaeta | 512 | 960 | 768 | 832 | | | | |
| Harpactico | | | | | 1024 | | | 1024 |
| Euphauciacea | | | | | 896 | 3584 | 320 | 192 |
| Amphipoda | 64 | 32 | | | 128 | 640 | | |
| Decapoda | | | | | 128 | | 1472 | 128 |
| Ctenophora | 7 | 6 | 6 | | | | | |

Forts.

| Gruppe ant/m ² \ Dato | 05.05.03 | 16.05.03 | 31.05.03 | 13.06.03 | 01.07.03 | 15.07.03 | 05.08.03 | 18.08.03 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| dyr>1000µm | 0,960 | 0,800 | *0,2 | 1,144 | 0,368 | 0,360 | 0,720 | 0,176 |
| 200µm<dyr<1000µm | 1,600 | 0,424 | * >0,232 | 1,200 | 1,440 | 2,592 | 2,024 | 1,600 |
| Totalt | 2,560 | 1,224 | | 2,344 | 1,808 | 2,952 | 2,744 | 1,776 |
| Chl.a int(50)µg/l | 0,91 | 1,04 | 1,19 | 0,66 | 0,89 | 0,69 | 0,77 | 0,51 |
| Kommentar zoopl | | | 2) * | | | | | |

| Gruppe ant/m ² \ Dato | 12.09.03 | 18.09.03 | 03.10.03 | 17.10.03 | 01.11.03 | 13.11.03 | 07.12.03 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Cal.kop.naupl. | 32000 | 512 | 512 | 8192 | 41472 | 3520 | 1024 |
| Calanus spp. | 9920 | 1760 | 2048 | 2944 | 11136 | 1280 | |
| Cal.I-III | 3584 | 144 | 112 | 512 | 768 | 256 | |
| Cal.IV-VI | 6336 | 1616 | 1936 | 2432 | 10368 | 1024 | 1920 |
| Andre calanoide kop. | 51712 | 6720 | 9152 | 80384 | 169984 | 46976 | 53632 |
| Pseudo/Paracal. | 36864 | 4160 | 5504 | 68096 | 146432 | 35520 | 47488 |
| Acartia longi. | 11776 | 2432 | 1280 | 3840 | 6656 | 6784 | 2176 |
| Centropages spp. | 3072 | 128 | 1280 | 6144 | 10752 | 3648 | 1920 |
| Temora longi. | | | 64 | 512 | 512 | 192 | 1280 |
| Metridia lucens | | | 24 | | | 256 | 64 |
| Microcal.pusill. | | | | | | | |
| Eurothemora spp. | | | 1024 | 1792 | 5632 | 832 | 768 |
| Candacia armata | 192 | 48 | 64 | | | | |
| Andre kop. | | | | | | | |
| Cyclopoide kop. | 77056 | 9280 | 38080 | 43008 | 193024 | 23360 | 59520 |
| Oithona helg./similis | 77056 | 9280 | 38080 | 43008 | 193024 | 23360 | 59520 |
| Oncaea spp | | | | | | | |
| Other zoopl | 10688 | 1344 | 1024 | 2882048 | 168960 | 64 | |
| Euph.naupl. | 768 | 128 | | | | | |
| Ostrachoda | | | | | | | |
| Cladocera | 1280 | 128 | 64 | | | | |
| Cirriped larver | | | | | | | |
| Chaetognatha | 128 | 192 | 64 | 512 | | | 1344 |
| Mollusca | | 320 | 256 | 2881536 | 168960 | 64 | |
| Appendicularia | 4864 | | 576 | | | | |
| Echinodermata | 3584 | 320 | | | | | |
| Polychaeta | 64 | 256 | 64 | | | | |
| Harpactico | | | | | | | |
| Euphauciacea | 256 | 64 | | 384 | | | |
| Amphipoda | 64 | | 320 | 4032 | 6144 | 128 | 64 |
| Decapoda | 64 | 64 | | 64 | | | 64 |
| Ctenophora | | | | | | | |
| dyr>1000µm | 0,432 | 0,424 | 0,152 | *0,728 | 1,344 | 0,248 | 0,048 |
| 200µm<dyr<1000µm | 0,624 | 0,344 | 0,280 | *20,168 | 1,488 | 0,592 | 0,280 |
| Totalt | 1,056 | 0,768 | 0,432 | | 2,832 | 0,840 | 0,328 |
| Chl.a int(50)µg/l | 1,04 | 0,35 | 0,28 | 0,54 | 1,64 | 0,50 | 0,41 |
| Kommentar zoopl | | | | 3) * | | | |

Kommentarer:

1) diatom i zoopl.pr.

2) zoopl silt gjennom feil sil (500µm), tall ikke brukt

3) Hyperider+store Limacina, tall ikke brukt

* Tall ikke brukt

**Statens forurensningstilsyn (SFT)**

Postboks 8100 Dep, 0032 Oslo

Besøksadresse: Strømsveien 96

Telefon: 22 57 34 00

Telefaks: 22 67 67 06

E-post: postmottak@sft.no

Internett: www.sft.no

| | | |
|--|-----------------------------------|------------------------------|
| Utførende institusjon Norsk institutt for vannforskning | Kontaktperson SFT Karen Fjøsne | ISBN-nummer 82-577-4524-3 |
|--|-----------------------------------|------------------------------|

| | | |
|--|-----------------------|------------------------|
| | Avdeling i SFT OMI | TA-nummer 2026/2004 |
|--|-----------------------|------------------------|

| | | | |
|--|------------|----------------|--------------------------------|
| Oppdragstakers prosjektansvarlig Frithjof Moy | År 2004 | Sidetall 49 | SFTs kontraktnummer 6003026 |
|--|------------|----------------|--------------------------------|

| | |
|--|--|
| Utgiver Norsk institutt for vannforskning NIVA-rapport 4842-04 | Prosjektet er finansiert av Statens forurensningstilsyn |
|--|--|

| |
|---|
| Forfatter Jan Magunusson, NIVA Einar Dahl, HFF Terje Jåvold, HFF Lena Omli, HFF Anita Reisvåg, HFF |
|---|

| |
|--|
| Tittel Langtidsovervåking av miljøkvaliteten i kystområdene av Norge. Kystovervåkingsprogrammet. Hydrografi/hydrokjemi/plankton. Datarapport 2003. |
|--|

| |
|---|
| Sammendrag Rapporten gjengir hydrografiske/hydrokjemiske observasjoner fra 5 stasjoner i kystvannet mellom svenskegrensen og Lista i 2003 og planktontellinger fra en stasjon utenfor Arendal (st 2). Det er gjennomført 9 tokt til Færder, 14 tokt til Jomfruland, 22 tokt til Arendal St. 2 og 12 tokt til Arendal St. 3 og Lista, jevnt fordelt over året. |
|---|

| | |
|--|---|
| 4 emneord Langtidsovervåking Trofikutvikling Norskekysten Hydrografi/hydrokjemi/plankton | 4 subject words Long-term monitoring Eutrophication Norwegian Coast Hydrography/hydrochemistry/plankton |
|--|---|