Appendix II

Time series (1960-2022) of surface water (0-10 m) and bottom water (station specific) for all monthly and high frequency stations sampled in 2022.

Included parameters are salinity, temperature, dissolved oxygen (including hydrogen sulphide as negative oxygen), dissolved inorganic phosphorus (DIP), total phosphorus, ammonium, sum of nitrate and nitrite, total nitrogen, dissolved silica and chlorophyll (hose sampling and mean from discrete depth 0-10 m). The station BCS III-10 was temporarily moved north-east of its correct position in 2017, this data is presented together with the BCS III-10 time series.
Temperature

Surface water 0-10 m

Bottom water ≥ 90.0 m

Salinity

Phosphate

[µmol/l]

Ammonium

Total Nitrogen

Nitrate + Nitrite

Dissolved Silica

Dissolved oxygen

Chlorophyll

Bottle 0-10 m

Hose 0-10 m

Å14, SKAGERACK
Temperature

Surface water 0-10 m

Bottom water ≥ 190.0 m

Salinity

Surface water 0-10 m

Bottom water ≥ 190.0 m

Phosphate

Surface water 0-10 m

Bottom water ≥ 190.0 m

Total phosphorus

Surface water 0-10 m

Bottom water ≥ 190.0 m

Ammonium

Surface water 0-10 m

Bottom water ≥ 190.0 m

Total Nitrogen

Surface water 0-10 m

Bottom water ≥ 190.0 m

Nitrate + Nitrite

Surface water 0-10 m

Bottom water ≥ 190.0 m

Dissolved Silica

Surface water 0-10 m

Bottom water ≥ 190.0 m

Dissolved oxygen

Surface water 0-10 m

Bottom water ≥ 190.0 m

Chlorophyll

Surface water 0-10 m

Bottom water ≥ 190.0 m
Å17, SKAGERACK

- **Temperature**
  - Surface water 0-10 m
  - Bottom water ≥ 300.0 m

- **Salinity**

- **Phosphate**

- **Total phosphorus**

- **Ammonium**

- **Total Nitrogen**

- **Nitrate + Nitrite**

- **Dissolved Silica**

- **Dissolved oxygen**

- **Chlorophyll**
  - Bottle 0-10 m
  - Hose 0-10 m
FLADEN, KATTEGAT

**Temperature**
- Surface water 0-10 m
- Bottom water ≥ 70.0 m

**Salinity**
- [psu]

**Phosphate**
- [µmol/l]

**Total phosphorus**
- [µmol/l]

**Ammonium**
- [µmol/l]

**Total Nitrogen**
- [µmol/l]

**Nitrate + Nitrite**
- [µmol/l]

**Dissolved Silica**
- [µmol/l]

**Dissolved oxygen**
- [µmol/l]

**Chlorophyll**
- Bottle 0-10 m
- Hose 0-20 m
- Hose 0-10 m

Year range: -60 to 0 to 20
N14 FALKENBERG, KATTEGAT COASTAL

- Temperature
  - Surface water 0-10 m
  - Bottom water ≥ 25.0 m

- Salinity

- Phosphate
- Total phosphorus

- Ammonium
- Total Nitrogen

- Nitrate + Nitrite

- Dissolved Silica

- Dissolved oxygen

- Chlorophyll
  - Bottle 0-10 m
  - Hose 0-10 m

"[°C]" T emperature

"[psu]" Salinity

"[µmol/l]" Phosphate

"[µmol/l]" Total phosphorus

"[µmol/l]" Ammonium

"[µmol/l]" Total Nitrogen

"[µmol/l]" Nitrate + Nitrite

"[µmol/l]" Dissolved Silica

"[µmol/l]" Dissolved oxygen

"[µg/l]" Chlorophyll
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Data Range</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>°C</td>
<td>-3.0 to 24.0</td>
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<tr>
<td>Surface water 0-10 m</td>
<td></td>
<td></td>
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<tr>
<td>Bottom water ≥ 70.0 m</td>
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</tr>
<tr>
<td>Salinity</td>
<td>[psu]</td>
<td>10 to 20</td>
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<tr>
<td>Phosphate</td>
<td>[µmol/l]</td>
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<tr>
<td>Total phosphorus</td>
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<tr>
<td>Ammonium</td>
<td>[µmol/l]</td>
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<td>Total Nitrogen</td>
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<td>0 to 12</td>
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<tr>
<td>Nitrate + Nitrite</td>
<td>[µmol/l]</td>
<td>0 to 20</td>
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<tr>
<td>Dissolved Silica</td>
<td>[µmol/l]</td>
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<tr>
<td>Dissolved oxygen</td>
<td>[ml/l]</td>
<td>0 to 12</td>
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<tr>
<td>Chlorophyll</td>
<td>[µg/l]</td>
<td>0 to 25</td>
</tr>
</tbody>
</table>

**Location:** HANÖBUKTEN, BORNHOLM
Temperature

Surface water 0-10 m

Bottom water ≥ 80.0 m

Salinity

Phosphate

Total phosphorus

Ammonium

Total Nitrogen

Nitrate + Nitrite

Dissolved Silica

Dissolved oxygen

Chlorophyll

Bottle 0-10 m

Hose 0-10 m

BY5 BORNHOLM DEEP, BORNHOLM
BCS III-10, EASTERN GOTLAND BASIN

- **Temperature**
  - Surface water 0-10 m
  - Bottom water ≥ 80.0 m

- **Salinity**
  - [psu]

- **Phosphate**
  - [µmol/l]

- **Total phosphorus**
  - [µmol/l]

- **Ammonium**
  - [µmol/l]

- **Total Nitrogen**
  - [µmol/l]

- **Nitrate + Nitrite**
  - [µmol/l]

- **Dissolved Silica**
  - [µmol/l]

- **Dissolved oxygen**
  - [mol/l]

- **Chlorophyll**
  - Bottle 0-10 m
  - Hose 0-10 m

**Graphs:**
- Year range: -60 to 20
BY39 ÖLANDS S UDDE, WESTERN GOTLAND BASIN

Temperature

Surface water 0-10 m

Bottom water ≥ 45.0 m

Salinity

Phosphate

Total phosphorus

Ammonium

Total Nitrogen

Nitrate + Nitrite

Dissolved Silica

Dissolved oxygen

Chlorophyll

Bottle 0-10 m

Hose 0-10 m
Temperature

Surface water 0-10 m

Bottom water ≥ 80.0 m

Salinity

Phosphate

Total phosphorus

Ammonium

Total Nitrogen

Nitrate + Nitrite

Dissolved Silica

Dissolved oxygen

Chlorophyll

Bottle 0-10 m

Hose 0-20 m

Hose 0-20 m
Temperature

Surface water 0-10 m

Bottom water ≥ 20.0 m

Salinity

Phosphate

Total phosphorus

Ammonium

Total Nitrogen

Nitrate + Nitrite

Dissolved Silica

Dissolved oxygen

Chlorophyll

Bottle 0-10 m

Hose 0-10 m

Hose 0-20 m

B7 & NB1 / B3, THE QUARK