Final Report

FEHMARNBELT FIXED LINK
HYDROGRAPHIC SERVICES (FEHY)

Marine Water - Baseline

Suspended Sediment

E1TR0057 Volume III

APPENDICES C-D-I-J-K-M-N
Note to the reader:
In this report the time for start of construction is artificially set to 1 October 2014 for the tunnel and 1 January 2015 for the bridge alternative. In the Danish EIA (VVM) and the German EIA (UVS/LBP) absolute year references are not used. Instead the time references are relative to start of construction works. In the VVM the same time reference is used for tunnel and bridge, i.e. year 0 corresponds to 2014/start of tunnel construction; year 1 corresponds to 2015/start of bridge construction etc. In the UVS/LBP individual time references are used for tunnel and bridge, i.e. for tunnel construction year 1 is equivalent to 2014 (construction starts 1 October in year 1) and for bridge construction year 1 is equivalent to 2015 (construction starts 1st January).
Appendix C

Grain Size Distributions for all Samples in Figure 5-9
A2009 A001 0.3-0.5m

A2009 A002 0.3m
APPENDIX D

MERIS Maps of Total Suspended Sediment
Turbidity
MERIS 300 m resolution

2009-08-01 UTC 09:30
Total Suspended Matter (mg/l)

Data sources:
MERIS
300 m resolution
FUB algorithm

Reference Coordinate Systems
Projection: UTM Zone 32 N Geographic
Datum: WGS 84
Turbidity
MERIS 300 m resolution

2009-09-20 UTC 09:59
Total Suspended Matter (mg/l)

- Mask Land and Clouds
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 3.5
- 3.5 - 4
- 4 - 4.5
- 4.5 - 5
- 5 - 5.5
- 5.5 - 6
- 6 - 8
- 8 - 10
- 10 - 15
- 15 - 20
- Above 20

Please note that not all clouds have been masked.

Data sources:
MERIS
300 m resolution
FUB algorithm

Reference Coordinate Systems
Projection: UTM Zone 32 N Geographic
Datum: WGS 84
2009-10-05 UTC 10:28
Total Suspended Matter (mg/l)

- Mask Land and Clouds
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 3.5
- 3.5 - 4
- 4 - 4.5
- 4.5 - 5
- 5 - 5.5
- 5.5 - 6
- 6 - 8
- 8 - 10
- 10 - 15
- 15 - 20
- Above 20

Please note that not all clouds have been masked.

Data sources:
MERIS
300 m resolution
FUB algorithm

Reference Coordinate Systems
Projection: UTM Zone 32 N  Geographic
Datum: WGS 84  WGS 84
APPENDIX I

Wind and Sediment Concentration Statistics from Nearshore Stations 1-10
StormGeo, WRF. Example: The SSC levels at NS01 exceeded 10 mg/l in 1.2% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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<th>10-15</th>
<th>15-20</th>
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| % > 3 mg/l | 3.9% | 12.1% | 9.4% | 0.4% | 25.9% |

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<th>% &gt; 10 mg/l</th>
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| % > 10 mg/l | 1.3% | 5.4% | 5.5% | 0.4% | 12.7% |

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| % > 25 mg/l | 0.7% | 2.1% | 2.1% | 0.3% | 5.2% |

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| % > 75 mg/l | 0.1% | 0.4% | 0.3% | 0.0% | 0.8% |
**Table NS01a.** Wind statistics 24/11-2010 – 5/5-2011 and Suspended Sediment Concentrations (mg/l) at NS01a. Wind speed (m/s), wind direction (degrees). Wind statistics:
StormGeo, WRF. Example: The SSC levels at NS01a exceeded 10 mg/l in 3.0% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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<td>0.8%</td>
</tr>
<tr>
<td>90-120</td>
<td>0.1%</td>
<td>0.4%</td>
<td>1.4%</td>
<td>0.1%</td>
<td>1.9%</td>
</tr>
<tr>
<td>120-150</td>
<td>0.0%</td>
<td>0.3%</td>
<td>0.8%</td>
<td>0.0%</td>
<td>1.1%</td>
</tr>
<tr>
<td>150-180</td>
<td>0.1%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.0%</td>
<td>0.5%</td>
</tr>
<tr>
<td>180-210</td>
<td>0.2%</td>
<td>1.0%</td>
<td>0.6%</td>
<td>0.0%</td>
<td>1.8%</td>
</tr>
<tr>
<td>210-240</td>
<td>0.3%</td>
<td>1.9%</td>
<td>0.7%</td>
<td>0.1%</td>
<td>2.9%</td>
</tr>
<tr>
<td>240-270</td>
<td>0.1%</td>
<td>2.0%</td>
<td>1.1%</td>
<td>0.6%</td>
<td>3.9%</td>
</tr>
<tr>
<td>270-300</td>
<td>0.2%</td>
<td>1.3%</td>
<td>1.3%</td>
<td>0.5%</td>
<td>3.3%</td>
</tr>
<tr>
<td>300-330</td>
<td>0.2%</td>
<td>1.0%</td>
<td>0.5%</td>
<td>0.1%</td>
<td>1.8%</td>
</tr>
<tr>
<td>330-360</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.5%</td>
</tr>
<tr>
<td>% &gt; 25 mg/l</td>
<td>1.4%</td>
<td>8.5%</td>
<td>7.1%</td>
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<td>18.8%</td>
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<table>
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<th>Wind dir/Wind speed</th>
<th>SSC &gt;75 mg/l</th>
<th>0-5</th>
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<th>15-20</th>
<th>% &gt;75 mg/l</th>
</tr>
</thead>
<tbody>
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<td>0-30</td>
<td>0.0%</td>
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<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>30-60</td>
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<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>60-90</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.1%</td>
</tr>
<tr>
<td>90-120</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.5%</td>
<td>0.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>120-150</td>
<td>0.0%</td>
<td>0.2%</td>
<td>0.6%</td>
<td>0.0%</td>
<td>0.8%</td>
</tr>
<tr>
<td>150-180</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>180-210</td>
<td>0.0%</td>
<td>0.3%</td>
<td>0.3%</td>
<td>0.0%</td>
<td>0.7%</td>
</tr>
<tr>
<td>210-240</td>
<td>0.1%</td>
<td>0.6%</td>
<td>0.2%</td>
<td>0.0%</td>
<td>0.9%</td>
</tr>
<tr>
<td>240-270</td>
<td>0.0%</td>
<td>0.9%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>1.4%</td>
</tr>
<tr>
<td>270-300</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.3%</td>
<td>0.3%</td>
<td>1.1%</td>
</tr>
<tr>
<td>300-330</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.2%</td>
<td>0.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>330-360</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.1%</td>
</tr>
<tr>
<td>% &gt; 75 mg/l</td>
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<td>2.9%</td>
<td>2.5%</td>
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<td>6.3%</td>
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</table>
Table NS02. Wind statistics 1/2-2009 – 24/11-2010 and Suspended Sediment Concentrations (mg/l) at NS02. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS02 exceeded 10 mg/l in 2.0% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

<table>
<thead>
<tr>
<th>SSC &gt;3 mg/l</th>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt; 3 mg/l</th>
</tr>
</thead>
</table>
| 0-30        | 0.2% 0.8% 0.2% 0.0% 1.2%,
| 30-60       | 0.3% 0.6% 0.6% 0.0% 1.5%,
| 60-90       | 0.3% 0.4% 0.7% 0.1% 1.5%,
| 90-120      | 0.3% 1.2% 0.9% 0.0% 2.5%,
| 120-150     | 0.6% 1.2% 1.0% 0.0% 2.8%,
| 150-180     | 0.5% 1.4% 0.2% 0.0% 2.1%,
| 180-210     | 0.4% 1.8% 0.7% 0.0% 2.9%,
| 210-240     | 0.3% 3.3% 2.2% 0.2% 6.0%,
| 240-270     | 0.3% 3.7% 1.9% 0.1% 6.0%,
| 270-300     | 0.4% 2.2% 1.9% 0.1% 4.6%,
| 300-330     | 0.3% 1.0% 0.5% 0.0% 1.8%,
| 330-360     | 0.2% 0.4% 0.0% 0.0% 0.6%,
| % > 3 mg/l  | 4.2% 17.9% 10.8% 0.5% 33.5% |

<table>
<thead>
<tr>
<th>SSC &gt;10 mg/l</th>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt; 10 mg/l</th>
</tr>
</thead>
</table>
| 0-30         | 0.1% 0.0% 0.2% 0.0% 0.3%,
| 30-60        | 0.1% 0.2% 0.4% 0.0% 0.7%,
| 60-90        | 0.1% 0.2% 0.5% 0.1% 0.9%,
| 90-120       | 0.1% 0.8% 0.3% 0.0% 1.3%,
| 120-150      | 0.1% 0.5% 0.8% 0.0% 1.4%,
| 150-180      | 0.1% 0.6% 0.2% 0.0% 0.9%,
| 180-210      | 0.1% 0.8% 0.5% 0.0% 1.5%,
| 210-240      | 0.1% 2.0% 1.9% 0.2% 4.2%,
| 240-270      | 0.1% 1.8% 1.5% 0.1% 3.6%,
| 270-300      | 0.1% 0.5% 1.0% 0.1% 1.8%,
| 300-330      | 0.1% 0.3% 0.3% 0.0% 0.7%,
| 330-360      | 0.1% 0.2% 0.0% 0.0% 0.3%,
| % > 10 mg/l  | 1.2% 8.1% 7.7% 0.5% 17.5% |

<table>
<thead>
<tr>
<th>SSC &gt;25 mg/l</th>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt;25 mg/l</th>
</tr>
</thead>
</table>
| 0-30         | 0.0% 0.0% 0.1% 0.0% 0.2%,
| 30-60        | 0.0% 0.1% 0.2% 0.0% 0.3%,
| 60-90        | 0.0% 0.0% 0.3% 0.1% 0.5%,
| 90-120       | 0.0% 0.4% 0.2% 0.0% 0.6%,
| 120-150      | 0.0% 0.3% 0.2% 0.0% 0.6%,
| 150-180      | 0.0% 0.3% 0.1% 0.0% 0.4%,
| 180-210      | 0.0% 0.2% 0.3% 0.0% 0.6%,
| 210-240      | 0.1% 1.1% 1.5% 0.1% 2.7%,
| 240-270      | 0.0% 0.6% 0.9% 0.1% 1.7%,
| 270-300      | 0.1% 0.1% 0.5% 0.1% 0.7%,
| 300-330      | 0.1% 0.1% 0.1% 0.0% 0.3%,
| 330-360      | 0.0% 0.1% 0.0% 0.0% 0.1%,
| % > 25 mg/l  | 0.4% 3.4% 4.4% 0.5% 8.7% |

<table>
<thead>
<tr>
<th>SSC &gt;75 mg/l</th>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt;75 mg/l</th>
</tr>
</thead>
</table>
| 0-30         | 0.0% 0.0% 0.0% 0.0% 0.0%,
| 30-60        | 0.0% 0.0% 0.0% 0.0% 0.0%,
| 60-90        | 0.0% 0.0% 0.0% 0.0% 0.0%,
| 90-120       | 0.0% 0.1% 0.0% 0.0% 0.1%,
| 120-150      | 0.0% 0.0% 0.1% 0.0% 0.1%,
| 150-180      | 0.0% 0.0% 0.0% 0.0% 0.0%,
| 180-210      | 0.0% 0.0% 0.2% 0.0% 0.2%,
| 210-240      | 0.0% 0.1% 0.3% 0.0% 0.5%,
| 240-270      | 0.0% 0.2% 0.2% 0.1% 0.5%,
| 270-300      | 0.0% 0.0% 0.1% 0.0% 0.1%,
| 300-330      | 0.0% 0.0% 0.1% 0.0% 0.1%,
| 330-360      | 0.0% 0.0% 0.0% 0.0% 0.0%,
| % > 75 mg/l  | 0.1% 0.5% 1.0% 0.1% 1.7% |
StormGeo, WRF. Example: The SSC levels at NS02a exceeded 10 mg/l in 4.6% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

**Table NS02a. Wind statistics 24/11-2010 – 5/5-2011 and Suspended Sediment Concentrations (mg/l) at NS02a. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS02a exceeded 10 mg/l in 4.6% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.**

<table>
<thead>
<tr>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt; 3 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30</td>
<td>0.5%</td>
<td>0.8%</td>
<td>0.8%</td>
<td>0.0%</td>
<td>2.0%</td>
</tr>
<tr>
<td>30-60</td>
<td>0.5%</td>
<td>0.5%</td>
<td>1.0%</td>
<td>0.0%</td>
<td>2.0%</td>
</tr>
<tr>
<td>60-90</td>
<td>0.4%</td>
<td>3.0%</td>
<td>2.8%</td>
<td>0.3%</td>
<td>6.4%</td>
</tr>
<tr>
<td>90-120</td>
<td>0.4%</td>
<td>2.7%</td>
<td>1.6%</td>
<td>0.1%</td>
<td>4.8%</td>
</tr>
<tr>
<td>120-150</td>
<td>0.6%</td>
<td>1.2%</td>
<td>1.1%</td>
<td>0.0%</td>
<td>2.9%</td>
</tr>
<tr>
<td>150-180</td>
<td>0.8%</td>
<td>1.2%</td>
<td>0.4%</td>
<td>0.0%</td>
<td>2.4%</td>
</tr>
<tr>
<td>180-210</td>
<td>0.9%</td>
<td>2.7%</td>
<td>0.8%</td>
<td>0.0%</td>
<td>4.4%</td>
</tr>
<tr>
<td>210-240</td>
<td>0.8%</td>
<td>5.8%</td>
<td>1.6%</td>
<td>0.1%</td>
<td>8.3%</td>
</tr>
<tr>
<td>240-270</td>
<td>1.3%</td>
<td>7.9%</td>
<td>3.4%</td>
<td>0.7%</td>
<td>13.2%</td>
</tr>
<tr>
<td>270-300</td>
<td>0.9%</td>
<td>4.9%</td>
<td>2.1%</td>
<td>0.6%</td>
<td>8.4%</td>
</tr>
<tr>
<td>300-330</td>
<td>0.8%</td>
<td>2.6%</td>
<td>0.9%</td>
<td>0.1%</td>
<td>4.4%</td>
</tr>
<tr>
<td>330-360</td>
<td>0.6%</td>
<td>0.9%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>1.6%</td>
</tr>
</tbody>
</table>

| % > 3 mg/l | 8.3% | 34.3% | 16.4% | 1.8%  | 60.8% |

<table>
<thead>
<tr>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt; 10 mg/l</th>
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</thead>
<tbody>
<tr>
<td>0-30</td>
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<td>0.2%</td>
<td>0.4%</td>
<td>0.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>30-60</td>
<td>0.1%</td>
<td>0.0%</td>
<td>0.7%</td>
<td>0.0%</td>
<td>0.7%</td>
</tr>
<tr>
<td>60-90</td>
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<td>1.1%</td>
<td>0.3%</td>
<td>1.5%</td>
</tr>
<tr>
<td>90-120</td>
<td>0.1%</td>
<td>0.2%</td>
<td>1.4%</td>
<td>0.1%</td>
<td>1.7%</td>
</tr>
<tr>
<td>120-150</td>
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<td>0.4%</td>
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<td>1.0%</td>
</tr>
<tr>
<td>180-210</td>
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<td>1.3%</td>
<td>0.8%</td>
<td>0.0%</td>
<td>2.4%</td>
</tr>
<tr>
<td>210-240</td>
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<td>4.0%</td>
<td>1.4%</td>
<td>0.1%</td>
<td>5.8%</td>
</tr>
<tr>
<td>240-270</td>
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<td>3.4%</td>
<td>2.5%</td>
<td>0.7%</td>
<td>6.8%</td>
</tr>
<tr>
<td>270-300</td>
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<td>1.5%</td>
<td>1.2%</td>
<td>0.5%</td>
<td>3.4%</td>
</tr>
<tr>
<td>300-330</td>
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<td>0.9%</td>
<td>0.9%</td>
<td>0.1%</td>
<td>2.1%</td>
</tr>
<tr>
<td>330-360</td>
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<td>0.3%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

| % > 10 mg/l | 2.9% | 19.4% | 14.7% | 1.8%  | 38.8% |

<table>
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<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt;25 mg/l</th>
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<td>0.4%</td>
<td>0.0%</td>
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</tr>
<tr>
<td>30-60</td>
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<td>0.7%</td>
<td>0.0%</td>
<td>0.7%</td>
</tr>
<tr>
<td>60-90</td>
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<td>1.1%</td>
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<td>1.5%</td>
</tr>
<tr>
<td>90-120</td>
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<td>1.4%</td>
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<td>1.7%</td>
</tr>
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</tr>
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<td>0.4%</td>
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<tr>
<td>180-210</td>
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<td>1.3%</td>
<td>0.8%</td>
<td>0.0%</td>
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<td>210-240</td>
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<td>4.0%</td>
<td>1.4%</td>
<td>0.1%</td>
<td>5.8%</td>
</tr>
<tr>
<td>240-270</td>
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<td>3.4%</td>
<td>2.5%</td>
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<td>6.8%</td>
</tr>
<tr>
<td>270-300</td>
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<td>1.2%</td>
<td>0.5%</td>
<td>3.4%</td>
</tr>
<tr>
<td>300-330</td>
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<td>0.9%</td>
<td>0.1%</td>
<td>2.1%</td>
</tr>
<tr>
<td>330-360</td>
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<td>0.3%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

| % > 25 mg/l | 1.5% | 12.5% | 11.7% | 1.7%  | 27.4% |

<table>
<thead>
<tr>
<th>Wind dir/Wind speed</th>
<th>0-5</th>
<th>5-10</th>
<th>10-15</th>
<th>15-20</th>
<th>% &gt;75 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.0%</td>
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<td>0.0%</td>
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</tr>
<tr>
<td>30-60</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.0%</td>
<td>0.1%</td>
</tr>
<tr>
<td>60-90</td>
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<td>0.0%</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.4%</td>
</tr>
<tr>
<td>90-120</td>
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<td>0.0%</td>
<td>0.7%</td>
<td>0.1%</td>
<td>0.8%</td>
</tr>
<tr>
<td>120-150</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.6%</td>
<td>0.0%</td>
<td>0.7%</td>
</tr>
<tr>
<td>150-180</td>
<td>0.0%</td>
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| % > 75 mg/l | 0.4% | 3.8% | 6.3% | 1.0%  | 11.5% |
**Table NS03.** Wind statistics 1/2-2009 – 24/11-2010 and Suspended Sediment Concentrations (mg/l) at NS03. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS03 exceeded 10 mg/l in 1.9% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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<th>15-20</th>
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Table NS03a. Wind statistics 24/11-2010 – 5/5-2011 and Suspended Sediment Concentrations (mg/l) at NS03a. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS03a exceeded 10 mg/l in 5.6% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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StormGeo, WRF. Example: The SSC levels at NS04 exceeded 10 mg/l in 1.0% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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| % > 3 mg/l | 7.8% | 24.0% | 10.6% | 0.7% | 43.1% |

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| % > 10 mg/l | 1.3% | 8.3% | 7.6% | 0.7% | 17.9% |

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| % > 25 mg/l | 0.4% | 2.4% | 4.1% | 0.6% | 7.4% |

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</tbody>
</table>

| % > 75 mg/l | 0.0% | 0.2% | 0.9% | 0.5% | 1.7% |
StormGeo, WRF. Example: The SSC levels at NS05 exceeded 10 mg/l in 3.5% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

<table>
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<th>15-20</th>
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StormGeo, WRF. Example: The SSC levels at NS06 exceeded 10 mg/l in 0.2% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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StormGeo, WRF. Example: The SSC levels at NS06a exceeded 10 mg/l in 0.9% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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| % > 75 mg/l | 0.1% | 0.5% | 2.9% | 0.5% | 4.1% |
Table NS07. Wind statistics 1/2-2009 – 12/01-2011 and Suspended Sediment Concentrations (mg/l) at NS07. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS07 exceeded 10 mg/l in 0.2% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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Table NS07a. Wind statistics 5/1-2011 – 7/4-2011 and Suspended Sediment Concentrations (mg/l) at NS07a. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS07a exceeded 10 mg/l in 0.5% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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StormGeo, WRF. Example: The SSC levels at NS08 exceeded 10 mg/l in 0.1% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

### Table NS08

Wind statistics 1/2-2009 – 12/01-2011 and Suspended Sediment Concentrations (mg/l) at NS08. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS08 exceeded 10 mg/l in 0.1% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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Table NS08a. Wind statistics 5/1-2011 – 7/4-2011 and Suspended Sediment Concentrations (mg/l) at NS08a. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS08a exceeded 10 mg/l in 0.2% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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Table NS09. Wind statistics 1/2-2009 – 7/4-2011 and Suspended Sediment Concentrations (mg/l) at NS09. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS09 exceeded 10 mg/l in 0.1% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

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Table NS10. Wind statistics 1/2-2009 – 7/4-2011 and Suspended Sediment Concentrations (mg/l) at NS10. Wind speed (m/s), wind direction (degrees). Wind statistics: StormGeo, WRF. Example: The SSC levels at NS10 exceeded 10 mg/l in 0.0% of the time in conditions when wind speeds were between 5-10 m/s and wind directions were between 210-240 degrees.

<table>
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<tr>
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| % > 3 mg/l | 2.7% | 7.7% | 4.7% | 0.4% | 15.4% |

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| % > 10 mg/l | 0.1% | 0.8% | 1.0% | 0.2% | 2.2% |

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| % >25 mg/l | 0.0% | 0.1% | 0.2% | 0.0% | 0.3% |

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| % >75 mg/l | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
Appendix J

Spatial Distribution of SSC Based on Profile Measurements
27 July - 2 August 2009 Upper 5 metres (26JL0905)

SSC [mg/l]
- 0.4 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)

Utm Zone 32 - Wgs84
24 - 29 August Upper 5 metres (26JL0906)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)
- 0-2
- 2-4
- 4-6
- 6-8
- 8-10
- 10-14
- 14-16
- 16-18
- >18
28 September - 5 October 2009 Lower 5 metres (26JL0907)

SSC [mg/l]
- 0.4 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Bathymetry model 50m

Depth (m)
- ≤ 2.4
- 2.4 - 4.6
- 4.6 - 6.8
- 6.8 - 8.10
- 8.10 - 10.12
- 10.12 - 12.14
- 12.14 - 14.16
- 14.16 - 16.18
- > 16.18
27 October - 3 November 2009 Upper 5 metres (26JL0908)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)

J – 7
17-21 May 2010 Lower 5 metres (26JL1005)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)

0.0  2.0  4.0  6.0  8.0  10.0  12.0  14.0  16.0  18.0  20.0
16-20 Aug 2010 Upper 5 metres (26JL1008)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)
- 0.0
- 2.0
- 4.0
- 6.0
- 8.0
- 10.0
- 12.0
- 14.0
- 16.0
- 18.0
- 20.0
13-23 Sep 2010 Upper 5 metres (26JL1009)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)
13-23 Sep 2010 Lower 5 metres (26JL1009)

SSC [mg/l]
- 0.0 - 2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 20.0

Depth (m)
- 0-2
- 2-4
- 4-6
- 6-8
- 8-10
- 10-12
- 12-14
- 14-16
- 16-18
- >18
APPENDIX K

Images of Bed Sediments from NS01-NS03
Figure 1  Tubes from NS01. Water depth 6 m

Figure 2  Tubes from NS02. Water depth 5 m
Figure 3  Tubes from NS03. Water depth 5 m

Figure 4  Tube from NS01a. Water depth 3 m
Figure 5  Tube from NS02a. Water depth 3 m

Figure 6  Tube from NS03a. Water depth 3 m
APPENDIX M

Rough Weather Measurements
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APPENDIX N

Data Filtering and QA
1 METHOD FOR ELIMINATING NOISY DATA

Different methods will be discussed to eliminate the signals that are not due to suspended sediment and a methodology is outlined. All time series are presented in Appendix B where grey lines illustrate the NTU data before filtering.

Some periods are very noisy. Most of the noise appears at the end of April or early May and persists until July or early August where it disappears. The noise in this period is strong enough to make the measurement device show maximum NTU values for long periods of time. The possible causes of this noise are discussed in Section 2.

The instruments make a back scatter count every 2 second for 16 seconds every 10 minute. These counts are translated into NTU using the below formula:

\[ NTU = (\text{COUNTS} - \text{dark counts}) \times \text{factor} \]

The “dark counts” and “factor” are instrument constants and subject to calibration in the suppliers laboratory. The data are converted with the instrument specific values after each downloading. “dark counts” vary from 50 to 82 and the factor is 0.0077 for all instruments used for the Fehmarnbelt project.

The eight calculated NTU values are averaged to provide the finally reported NTU-value per 10 min.

Histograms were made for the raw data counts to see if data had an abnormal distribution of data counts. An example of such an evaluation from a time series with few spikes is given in Figure 1-1 where in the lower panel the raw counts are clustered and presented in a histogram. In periods with few spikes the clear majority of data must be in the column with values below 500 counts and a steep decay towards clusters with higher values. On the contrary, an example of an analysis of a time series with many spikes is given in Figure 1-2. Here there is a large amount of data in the <500 column and also a fast decay. But in this case there is also a large amount of data in the clusters with the largest value. This indicates that there are periods where the instrument is disturbed in some way.
Figure 1-1  NS03 23/4-2009 – 15/6-2009. Only few spikes are present

Figure 1-2 23/4-2009 – 15/6-2009. The large number of high counts seen in the last three columns shows that the signal is disturbed

Figure 1-1 represents a typical good quality time series of NTU measurements by the “Wetlabs NTUsb” instrument. This time series only has a few spikes that have to be removed from the dataset. From the histogram it appears that most of the raw data counts are below 1000.

Figure 1-2 represents a typical erroneous time series where there is a lot of noise in the raw data resulting in abnormal and unusable NTU data. During the period data counts up to 16079 are present as illustrated in the histogram.

Based on plots of the raw data it has been possible to point out the periods in the data set where the WET Labs NTUsb instruments have been collecting unstable data to an extent where it was necessary to remove large part of the data in the quality control process.
Following this procedure the goal was to remove single non sediment events. An automatic filter has been introduced which removes peaks with unrealistic gradients, and peaks with unrealistic heights and values that repeat themselves over a period of time. Furthermore, a manual filtering process was applied. The full procedure is presented in the following.

**Automatic post processing and filtering**
- Remove all raw data counts with value higher than 9999 (~78 NTU)
- Calculate NTU from raw data \[ ((\text{Raw Data} - \text{Dark Counts}) \times \text{Factor}) \]
  - Dark Counts vary with instrument
  - Factor = 0.0077
- Remove data where the NTU value:
  - < 0
  - repeats exact same NTU value 5 times or more
  - increases more than 25 NTU in 10 min
  - decreases more than 25 NTU in 10 min

**Manual filtering and quality assurance**
The manual evaluation of all NTU time series for both near-shore and main stations are performed using the Data Handling Centre management console developed for QA of data collected for the Fehmarnbelt study. The system is online and one time series is manually filtered at a time by setting quality flags. In this way periods with unreliable data not already flagged during the automatic filter are flagged as erroneous data and not included in the final quality assured data set. The following criteria have been used in the manual QA process:
- Remove single spikes below 2-3 hours
- Remove events that are assessed as not being caused by suspended sediment

Spikes that are part of an event are not removed and spikes below 2-3 NTU are not removed. An example of an NTU time series before and after manual QA has been applied is shown in Figure 1-3. The filtered NTU time series can be seen in Appendix B.

![Figure 1-3](image_url)
*Figure 1-3  Example of a time series before and after manual filtering has been applied*

The small spikes surrounding the main signal are a result of the measuring technique. The NTU device measures eight times with 2-second intervals. The result shown in the time series is the average of these eight measurements. If one of these measurements fluctuates a spike will appear. A low pass filter with a filter width of 2.5
hours is applied to the data to eliminate such smaller spikes. The use of low pass filters is a common way of removing small spikes from noisy data (Downing, J. 2006).

## 2 POSSIBLE CAUSES OF NOISY DATA IN SPRING/SUMMER

As stated above it was discovered that the measurements from the near-shore stations occasionally gave confusing results during spring and summertime. Example from NS07 is presented in Figure 2-1. The signal appeared spiky and during periods of varying length the meter showed maximum values only. In the end of July 2009 and beginning of August the problem stopped and after that, only a minor appearance of spikes was found.

![Figure 2-1 Example of unreliable data from NS07](image)

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<td>Instrument malfunctioning</td>
<td>This was clearly rejected after a series of laboratory tests. The instrument was able to clearly detect a change in suspended sediment concentration of only 0.3 mg l(^{-1}). This was shown on five different instruments</td>
</tr>
<tr>
<td>Ropes and mooring poorly designed</td>
<td>This has been rejected after a thorough investigation. Instruments might during storms periodically see the ropes but not during calm weather. Further, the instrument may vibrate due to turbulence around the wire and instrument. One test was made with an instrument mounted on a frame next to the wire mounted instrument. Identical NTU's were measured with the two instruments (see Figure 2-2)</td>
</tr>
<tr>
<td>Air bubbles</td>
<td>It is well known that air bubbles will disturb the instrument. This was also seen in laboratory tests. Air bubbles might be present in the water</td>
</tr>
</tbody>
</table>
Possible cause for spiky and saturated results

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish larvae in the water</td>
<td>This might be the case but in such abundance during more than three months is unlikely</td>
</tr>
<tr>
<td>Macro algae in the water blocking the probe</td>
<td>Seaweed was caught on the shutter of the instruments a few times during spring 2009. Seaweed and or algae will saturate the probe. Surveyors have not seen extreme abundance of seaweed during cruises. However, service visits in spring 2010 seem to confirm that algae are the main reason for the problems</td>
</tr>
</tbody>
</table>

In April and May 2010 additional measurements have been undertaken with a transmissiometer as an independent instrument on NS01. This type of instrument showed same results as the NTUs. At recovery of instruments in May considerable amounts of brown algae were found on the instruments. Even though brown algae were not observed to the same extend as in 2009 it is believed that algae on the instruments are the reason for the misreading. An underwater picture of an NTU covered with brown algae is given in Figure 2-3.
Figure 2-3  Example of brown algae found on NTU