Recent distribution and temporal changes of suspended particulate matter in the St. Lawrence Estuary, Canada

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**Supporting information**

***Testing protocols***

Differences between values determined by selected and reference protocols were calculated as **Difference (%) = (selected protocol - reference) x 100/ reference** and statistically compared with paired t tests. The reference protocol is described as follow: combusted GF/F 25 mm at 450oC for 5 hrs, vacuum filtration ~2.5 PSI, rinsed with ultra-pure water (30 ml), dried at 70oC for 4 hrs (for measuring SPM) and combusted at 450oC for 5 hrs (for measuring PIM).

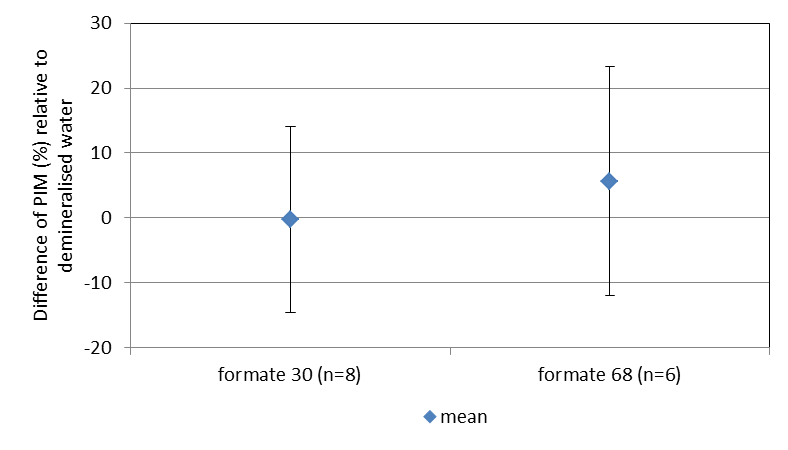
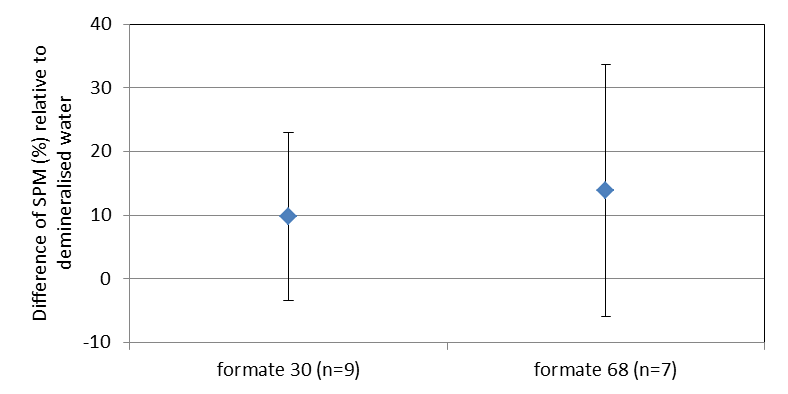
*Testing rinsing solutions on SPM and PIM concentrations*

The effect of the rinsing solutions on the SPM and PIM concentrations was determined using several estuarine waters. Two rinsing solutions of ammonium formate, 30 g l-1 and 68 g l-1, were tested relative to the reference protocol which used demineralized water. GF/F filters retained significant amount of salt (up to 5 mg) from estuarine waters which must be eliminated by rinsing. The solutions of ammonium formate (30 g l-1; n=9, 68 g l-1; n=7), which decompose and evaporate under heating, did not significantly increase the SPM concentrations compared to demineralized water. This was further confirmed by comparing surface with bottom waters, which were less prone to contain cells expected to break by a change of ionic strength (salinity). SPM determination must also include a blank correction, which generally represents a loss of (weight) filter fibers. The blank correction values often varied among filter batches (data not shown). Results indicate that the two rinsing techniques applied on the estuarine water samples examined did not significantly affect the SPM or PIM concentrations (Figure S1).

Figure S1. Difference between tested rinsing protocols reported in % (mean ± std dev) relative to the reference rinsing protocol on (a) MPS and (b) PIM concentrations. The reference protocol used ultra-pure water and the tested protocols used ammonium formate solutions at either 30 g l-1 or 68g l-1.

A)

B)



*Testing types (and pore size) of filters on SPM and PIM concentrations*

The effect of the types and pore size of filters on SPM concentrations was determined using several estuarine waters. Mixed cellulose esters filters, 0.45 µm (Millipore) used by Lucotte et al. (1991), polycarbonate filters, 0.4 µm (Nuclepore) used by Larouche and Boyer-Villemaire (2010) and glass microfiber filters, 0.7 µm (Whatman) used in this study were compared. The impact of these filters on SPM concentrations was measured by filtering several natural water samples with the three filter types. Results indicate that the type and pore size of filter used in other studies on estuarine water samples did not significantly affect SPM concentrations (Figure S2). On the other hand, PIM values determined by Larouche and Boyer-Villemaire (2010) and in this study used glass microfiber filters, 0.7 µm (Whatman).

Figure S2. Difference between type and pore size of filter reported in % (mean ± std dev) relative to the reference protocol on MPS concentrations. The reference protocol used glass microfiber filters, 0.7 µm (Whatman)(GF/F), whereas the tested filters were made of polycarbonate filters, 0.4 µm (Nuclepore)(PC) and mixed cellulose esters filters, 0.45 µm (Millipore)(HA).

Table S1. Supplementary information for each cruise; time period of sampling (hydrological or biological events), stations visited and water samples collected and their characteristics. nd = not determined

Cruise IML-2014-05, P1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Station | Latitude | Longitude | Date | Total depth | Sample depth | Salinity | Temperature | SPM | PIM |
|  |  |  | Month DD YYYY | m | m |  | oC | mg/l | % |
| 6 | 47 26.72 N | 70 08.86 W | May 05 2014 | 26.5 | 16.6 | 24.06 | 2.07 | 42.9 | 90.9 |
| 6 |  |  |  |  | 1.34 | 9.44 | 5.13 | 23.4 | 89.5 |
| 7 | 47 36.30 N | 69 57.41 W | May 05 2014 | 30.7 | 21.5 | 27.04 | 1.55 | 11.9 | 92.8 |
| 7 |  |  |  |  | 1.12 | 16.52 | 3.72 | 7.67 | 94.7 |
| 8 | 47 57.20 N | 69 35.63 W | May 05 2014 | 35.0 | 25.3 | 30.09 | 0.91 | 2.15 | 91.9 |
| 8 |  |  |  |  | 1.44 | 24.28 | 2.23 | 3.93 | 94.3 |
| 11 | 48 04.57 N | 69 27.98 W | May 05 2014 | 91.3 | 81.5 | 32.11 | -0.16 | 1.08 | 78.0 |
| 11 |  |  |  |  | 49.9 | 31.01 | 0.53 | 0.85 | 86.0 |
| 11 |  |  |  |  | 27.4 | 30.03 | 1.03 | 1.38 | 80.9 |
| 11 |  |  |  |  | 27.3 | 30.04 | 1.03 | 1.14 | 87.0 |
| 11 |  |  |  |  | 0.78 | 21.12 | 2.35 | 4.16 | 88.0 |
| 12 | 47 42.40 N | 69 55.00 W | May 06 2014 | 97.6 | 88.7 | 30.23 | 0.79 | 6.93 | 88.7 |
| 12 |  |  |  |  | 50.0 | 29.89 | 0.92 | 4.08 | 89.0 |
| 12 |  |  |  |  | 25.6 | 26.70 | 1.57 | 4.24 | 89.8 |
| 12 |  |  |  |  | 10.2 | 19.92 | 2.98 | 7.71 | 91.7 |
| 12 |  |  |  |  | 1.45 | 13.49 | 4.30 | 10.2 | 90.6 |
| 13 | 47 53.47 N | 69 46.61 W | May 06 2014 | 84.6 | 73.7 | 30.82 | 0.39 | 1.99 | 87.9 |
| 13 |  |  |  |  | 51.1 | 29.30 | 1.02 | 2.10 | 84.5 |
| 13 |  |  |  |  | 30.3 | 26.62 | 2.04 | 3.20 | 89.0 |
| 13 |  |  |  |  | 23.9 | 24.81 | 1.98 | 4.91 | 88.6 |
| 13 |  |  |  |  | 2.15 | 17.11 | 3.61 | 7.53 | 89.3 |
| 14 | 47 32.01 N | 70 10.41 W | May 05 2014 | 86.1 | 76.6 | 28.61 | 1.28 | 82.3 | 90.6 |
| 14 |  |  |  |  | 55.0 | 26.28 | 1.68 | 88.6 | 93.4 |
| 14 |  |  |  |  | 50.6 | 25.88 | 1.74 | 95.8 | 92.6 |
| 14 |  |  |  |  | 24.6 | 22.74 | 2.31 | 23.6 | 86.3 |
| 14 |  |  |  |  | 1.38 | 13.68 | 4.28 | 11.6 | 92.9 |
| 21 | 48 14.71 N | 69 25.68 W | May 04 2014 | 314 | 304 | 34.35 | 5.01 | 1.98 | 92.9 |
| 21 |  |  |  |  | 250 | 34.17 | 4.62 | 0.81 | 89.0 |
| 21 |  |  |  |  | 148 | 33.51 | 3.04 | 0.67 | 89.7 |
| 21 |  |  |  |  | 98.2 | 32.80 | 0.96 | 0.61 | 85.5 |
| 21 |  |  |  |  | 48.9 | 32.08 | -0.54 | 0.87 | 84.8 |
| 21 |  |  |  |  | 26.1 | 30.45 | 0.82 | 0.72 | 84.3 |
| 21 |  |  |  |  | 11.4 | 27.34 | 2.48 | 2.21 | 78.2 |
| 21 |  |  |  |  | 1.64 | 26.03 | 2.92 | 2.09 | 83.4 |
| 22 | 48 08.87 N | 69 32.41 W | May 04 2014 | 125 | 112 | 32.48 | -0.25 | 1.05 | 70.6 |
| 22 |  |  |  |  | 101 | 31.99 | -0.28 | 0.41 | 69.3 |
| 22 |  |  |  |  | 48.7 | 29.87 | 1.07 | 0.92 | 84.3 |
| 22 |  |  |  |  | 23.9 | 27.92 | 1.80 | 1.82 | 78.4 |
| 22 |  |  |  |  | 17.1 | 26.74 | 2.16 | 2.11 | 82.8 |
| 22 |  |  |  |  | 1.85 | 25.68 | 2.20 | 2.75 | 85.5 |
| 24 | 48 09.15 N | 69 22.43 W | May 05 2014 | 69.5 | 58.9 | 32.21 | 0.97 | 1.05 | 86.0 |
| 24 |  |  |  |  | 48.9 | 31.75 | 0.89 | 1.07 | 81.2 |
| 24 |  |  |  |  | 25.4 | 28.40 | 1.65 | 1.81 | 80.2 |
| 24 |  |  |  |  | 7.50 | 27.33 | 2.13 | 2.01 | 84.2 |
| 24 |  |  |  |  | 1.73 | 25.27 | 2.37 | 3.30 | 87.8 |
| 25 | 48 16.63 N | 69 11.18 W | May 04 2014 | 159 | 144 | 33.17 | 2.19 | 0.69 | 81.7 |
| 25 |  |  |  |  | 100 | 32.65 | 1.21 | 1.39 | 76.7 |
| 25 |  |  |  |  | 49.6 | 32.27 | 1.17 | 1.88 | 77.7 |
| 25 |  |  |  |  | 25.0 | 29.88 | 0.91 | 1.35 | 89.8 |
| 25 |  |  |  |  | 12.4 | 27.64 | 1.63 | 2.07 | 93.2 |
| 25 |  |  |  |  | 1.41 | 23.29 | 2.72 | 4.42 | 87.2 |
| 26 | 48 33.07 N | 68 52.73 W | May 08 2014 | 314 | 305 | 34.49 | 5.31 | 0.60 | 84.8 |
| 26 |  |  |  |  | 251 | 34.34 | 5.01 | 0.66 | 73.6 |
| 26 |  |  |  |  | 147 | 33.15 | 2.01 | 0.85 | 74.8 |
| 26 |  |  |  |  | 100 | 32.46 | -0.35 | 1.76 | 70.4 |
| 26 |  |  |  |  | 51.4 | 31.73 | -0.75 | 0.61 | 73.9 |
| 26 |  |  |  |  | 24.9 | 30.40 | 1.04 | 0.92 | 85.1 |
| 26 |  |  |  |  | 6.82 | 25.25 | 4.84 | 3.13 | 73.4 |
| 26 |  |  |  |  | 1.54 | 23.41 | 4.22 | 3.01 | 84.5 |
| 27 | 48 39.46 N | 68 34.61 W | May 08 2014 | 326 | 316 | 34.49 | 5.31 | 0.53 | 81.6 |
| 27 |  |  |  |  | 250 | 34.38 | 5.10 | 0.59 | 63.9 |
| 27 |  |  |  |  | 151 | 33.67 | 3.55 | 0.29 | 89.3 |
| 27 |  |  |  |  | 100 | 32.88 | 1.13 | 0.70 | 80.1 |
| 27 |  |  |  |  | 51.0 | 31.57 | 0.29 | 0.82 | 74.9 |
| 27 |  |  |  |  | 25.4 | 28.92 | 1.50 | 0.84 | 80.2 |
| 27 |  |  |  |  | 13.8 | 26.77 | 2.46 | 2.41 | 83.1 |
| 27 |  |  |  |  | 1.75 | 25.01 | 3.88 | 2.54 | 83.7 |
| 32 | 48 39.86 N | 68 21.30 W | May 08 2014 | 119 | 112 | 32.79 | 0.97 | 1.14 | 87.3 |
| 32 |  |  |  |  | 99.4 | 32.67 | 0.54 | 0.81 | 87.2 |
| 32 |  |  |  |  | 52.4 | 31.84 | 0.38 | 1.37 | 80.9 |
| 32 |  |  |  |  | 25.0 | 27.22 | 1.91 | 2.00 | 91.3 |
| 32 |  |  |  |  | 13.8 | 24.96 | 3.26 | 3.29 | 84.3 |
| 32 |  |  |  |  | 1.13 | 24.10 | 3.45 | 3.23 | 86.3 |
| 33 | 48 46.92 N | 68 03.40 W | May 02 2014 | 171 | 158 | 33.87 | 4.02 | 1.26 | 66.0 |
| 33 |  |  |  |  | 152 | 33.80 | 3.88 | 1.14 | 57.6 |
| 33 |  |  |  |  | 100 | 32.83 | 0.87 | 0.48 | 49.4 |
| 33 |  |  |  |  | 50.3 | 31.59 | -0.30 | 0.87 | 63.1 |
| 33 |  |  |  |  | 42.4 | 30.85 | 0.56 | 1.05 | 75.9 |
| 33 |  |  |  |  | 25.3 | 29.71 | 1.32 | 1.61 | 74.1 |
| 33 |  |  |  |  | 2.47 | 26.81 | 2.76 | 1.94 | 84.9 |
| 34 | 48 53.49 N | 67 38.88 W | May 02 2014 | 185 | 171 | 33.85 | 4.02 | 1.31 | 75.4 |
| 34 |  |  |  |  | 152 | 33.67 | 3.60 | 0.71 | 85.5 |
| 34 |  |  |  |  | 125 | 33.08 | 1.88 | 0.71 | 73.9 |
| 34 |  |  |  |  | 65.3 | 32.04 | -0.45 | 0.86 | 73.9 |
| 34 |  |  |  |  | 50.1 | 31.07 | 0.47 | 1.01 | 79.7 |
| 34 |  |  |  |  | 24.6 | 29.25 | 1.39 | 1.26 | 82.3 |
| 34 |  |  |  |  | 2.41 | 26.91 | 2.81 | 1.90 | 82.4 |
| 35 | 48 58.76 N | 67 18.27 W | May 02 2014 | 188 | 177 | 26.91 | 4.20 | 0.57 | 77.5 |
| 35 |  |  |  |  | 151 | 26.77 | 3.61 | 0.43 | 56.1 |
| 35 |  |  |  |  | 100 | 26.21 | 0.18 | 0.36 | 63.2 |
| 35 |  |  |  |  | 51.1 | 25.49 | -0.67 | 0.66 | 56.1 |
| 35 |  |  |  |  | 27.7 | 23.45 | 1.50 | 1.68 | 70.4 |
| 35 |  |  |  |  | 24.0 | 23.22 | 1.44 | 1.07 | 79.1 |
| 35 |  |  |  |  | 2.21 | 21.92 | 2.88 | 2.04 | 65.5 |
| 42 | 48 48.26 N | 68 32.20 W | May 03 2014 | 336 | 327 | 34.51 | 5.35 | 0.79 | 80.7 |
| 42 |  |  |  |  | 250 | 34.38 | 5.11 | 0.43 | 66.6 |
| 42 |  |  |  |  | 150 | 33.75 | 3.75 | 0.93 | 72.2 |
| 42 |  |  |  |  | 100 | 32.83 | 1.12 | 0.70 | 78.4 |
| 42 |  |  |  |  | 51.9 | 31.62 | 0.04 | 0.91 | 69.5 |
| 42 |  |  |  |  | 25.2 | 28.70 | 1.38 | 1.19 | 84.1 |
| 42 |  |  |  |  | 7.80 | 26.65 | 2.58 | 2.03 | 81.0 |
| 42 |  |  |  |  | 1.77 | 25.86 | 3.55 | 1.78 | 80.5 |
| 43 | 48 56.25 N | 68 14.78 W | May 03 2014 | 328 | 316 | 34.51 | 5.35 | 0.84 | 82.8 |
| 43 |  |  |  |  | 251 | 34.45 | 5.25 | 0.57 | 79.9 |
| 43 |  |  |  |  | 152 | 33.10 | 2.01 | 0.28 | 84.5 |
| 43 |  |  |  |  | 99.6 | 32.22 | -0.96 | 0.37 | 71.3 |
| 43 |  |  |  |  | 51.1 | 31.85 | -0.43 | 0.61 | 70.6 |
| 43 |  |  |  |  | 27.3 | 31.33 | -0.03 | 0.59 | 73.4 |
| 43 |  |  |  |  | 24.9 | 31.28 | 0.01 | 0.63 | 76.0 |
| 43 |  |  |  |  | 2.09 | 26.72 | 2.91 | 1.81 | 76.5 |
| 44 | 49 05.76 N | 67 49.24 W | May 03 2014 | 244 | 234 | 34.34 | 5.07 | 0.77 | 76.9 |
| 44 |  |  |  |  | 200 | 34.16 | 4.82 | 0.36 | 64.8 |
| 44 |  |  |  |  | 150 | 33.74 | 3.76 | 0.32 | 74.6 |
| 44 |  |  |  |  | 100 | 33.03 | 1.65 | 0.40 | nd |
| 44 |  |  |  |  | 49.6 | 32.24 | -0.76 | 0.40 | 70.7 |
| 44 |  |  |  |  | 20.4 | 30.59 | 0.56 | 1.15 | 54.6 |
| 44 |  |  |  |  | 7.24 | 27.36 | 3.17 | 2.55 | 55.2 |
| 44 |  |  |  |  | 1.54 | 26.46 | 3.38 | 3.37 | 52.1 |
| 45 | 49 13.04 N | 67 27.35 W | May 03 2014 | 297 | 287 | 34.42 | 5.26 | 1.11 | 85.8 |
| 45 |  |  |  |  | 225 | 34.04 | 4.51 | 0.34 | 74.8 |
| 45 |  |  |  |  | 149 | 33.04 | 1.68 | 0.39 | 77.9 |
| 45 |  |  |  |  | 101 | 32.28 | 0.03 | 0.70 | 68.2 |
| 45 |  |  |  |  | 50.2 | 31.62 | -0.04 | 1.30 | 62.3 |
| 45 |  |  |  |  | 25.1 | 31.11 | 0.92 | 1.98 | 47.6 |
| 45 |  |  |  |  | 10.7 | 30.83 | 1.66 | 2.64 | 44.3 |
| 45 |  |  |  |  | 1.81 | 30.81 | 1.92 | 4.29 | 41.0 |

Cruise IML-2015-25, P2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Station | Latitude | Longitude | Date | Total depth | Sample depth | Salinity | Temperature | SPM | PIM |
|  |  |  | Month DD YYYY | m | m | PSU | oC | mg/l | % |
| 6 | 47 26.66 N | 70 08.83 W | June 12 2015 | 27.9 | 18.0 | 27.16 | 4.17 | 38.9 | 92.7 |
| 6 |  |  |  |  | 1.46 | 15.05 | 11.0 | 14.8 | 93.5 |
| 7 | 47 36.29 N | 69 57.42 W | June 12 2015 | 31.1 | 23.9 | 29.79 | 2.83 | 5.82 | 93.5 |
| 7 |  |  |  |  | 1.87 | 18.24 | 9.26 | 7.98 | 91.9 |
| 8 | 47 57.22 N | 69 35.54 W | June 12 2015 | 33.7 | 28.0 | 29.48 | 3.45 | 3.95 | 90.8 |
| 8 |  |  |  |  | 1.84 | 23.90 | 6.41 | 4.50 | 90.6 |
| 11 | 48 04.45 N | 69 27.76 W | June 14 2015 | 94.2 | 82.2 | 30.06 | 3.16 | 1.97 | 90.0 |
| 11 |  |  |  |  | 56.0 | 28.00 | 4.22 | 2.51 | 89.9 |
| 11 |  |  |  |  | 28.8 | 27.90 | 4.26 | 2.41 | 89.4 |
| 11 |  |  |  |  | 3.03 | 25.69 | 5.53 | 3.16 | 90.8 |
| 11 |  |  |  |  | 1.86 | 25.36 | 5.72 | 3.31 | 92.0 |
| 12 | 47 43.74 N | 69 55.08 W | June 12 2015 | 129 | 117 | 30.40 | 2.51 | 3.41 | 90.1 |
| 12 |  |  |  |  | 97.1 | 30.40 | 2.51 | 3.24 | 90.0 |
| 12 |  |  |  |  | 47.4 | 29.72 | 2.93 | 1.84 | 88.6 |
| 12 |  |  |  |  | 25.5 | 28.23 | 3.76 | 2.73 | 87.6 |
| 12 |  |  |  |  | 7.42 | 22.60 | 6.46 | 6.36 | 92.5 |
| 12 |  |  |  |  | 1.09 | 20.73 | 7.72 | 6.37 | 92.3 |
| 13 | 47 54.98 N | 69 46.69 W | June 12 2015 | 126 | 118 | 31.07 | 2.14 | 1.15 | 82.2 |
| 13 |  |  |  |  | 103 | 31.05 | 2.14 | 1.16 | 82.9 |
| 13 |  |  |  |  | 49.6 | 30.47 | 2.60 | 1.70 | 87.9 |
| 13 |  |  |  |  | 25.1 | 29.83 | 3.04 | 2.08 | 86.0 |
| 13 |  |  |  |  | 10.2 | 25.78 | 5.00 | 3.69 | 91.5 |
| 13 |  |  |  |  | 1.97 | 23.39 | 6.62 | 4.49 | 90.8 |
| 14 | 47 32.00 N | 70 10.40 W | June 12 2015 | 92.3 | 82.4 | 28.50 | 3.49 | 9.67 | 93.7 |
| 14 |  |  |  |  | 48.1 | 26.55 | 4.46 | 26.5 | 94.0 |
| 14 |  |  |  |  | 40.5 | 26.16 | 4.65 | 36.3 | 92.6 |
| 14 |  |  |  |  | 24.6 | 22.99 | 6.24 | 13.4 | 94.1 |
| 14 |  |  |  |  | 1.26 | 18.94 | 8.94 | 9.78 | 93.1 |
| 21 | 48 14.68 N | 69 23.99 W | June 15 2015 | 319 | 308 | 34.38 | 5.21 | 2.11 | 90.5 |
| 21 |  |  |  |  | 249 | 34.13 | 4.64 | 0.76 | 88.3 |
| 21 |  |  |  |  | 151 | 33.32 | 2.67 | 0.97 | 83.3 |
| 21 |  |  |  |  | 97.5 | 32.37 | 0.29 | 0.32 | 80.5 |
| 21 |  |  |  |  | 48.1 | 31.17 | 1.91 | 0.62 | 83.1 |
| 21 |  |  |  |  | 26.0 | 30.67 | 2.39 | 0.72 | 80.8 |
| 21 |  |  |  |  | 5.33 | 26.96 | 6.80 | 1.58 | 69.8 |
| 21 |  |  |  |  | 1.71 | 26.91 | 7.24 | 1.90 | 56.9 |
| 22 | 48 07.52 N | 69 33.01 W | June 14 2015 | 122 | 116 | 32.68 | 1.51 | 0.76 | 87.1 |
| 22 |  |  |  |  | 98.3 | 32.40 | 1.18 | 0.59 | 86.4 |
| 22 |  |  |  |  | 49.1 | 30.69 | 2.13 | 0.69 | 83.1 |
| 22 |  |  |  |  | 25.6 | 29.88 | 2.89 | 1.40 | 84.5 |
| 22 |  |  |  |  | 9.47 | 27.45 | 4.48 | 2.14 | 90.6 |
| 22 |  |  |  |  | 1.99 | 26.18 | 5.25 | 2.55 | 90.1 |
| 24 | 48 09.23 N | 69 22.29 W | June 11 2015 | 67.9 | 58.0 | 32.92 | 2.40 | 0.52 | 83.7 |
| 24 |  |  |  |  | 46.5 | 31.85 | 2.15 | 0.71 | 83.5 |
| 24 |  |  |  |  | 25.3 | 29.97 | 3.05 | 1.01 | 80.7 |
| 24 |  |  |  |  | 2.48 | 26.60 | 5.40 | 2.22 | 87.2 |
| 24 |  |  |  |  | 1.24 | 26.30 | 5.59 | 2.82 | 91.6 |
| 25 | 48 16.73 N | 69 11.46 W | June 11 2015 | 163 | 152 | 33.92 | 4.14 | 0.88 | 90.2 |
| 25 |  |  |  |  | 148 | 33.88 | 4.07 | 0.95 | 88.4 |
| 25 |  |  |  |  | 99.2 | 32.74 | 2.28 | 0.62 | 86.7 |
| 25 |  |  |  |  | 48.5 | 31.48 | 2.35 | 0.90 | 85.6 |
| 25 |  |  |  |  | 25.4 | 30.65 | 2.42 | 0.65 | 83.8 |
| 25 |  |  |  |  | 3.88 | 28.44 | 4.49 | 0.98 | 76.0 |
| 25 |  |  |  |  | 1.36 | 27.70 | 6.22 | 0.94 | 72.8 |
| 26 | 48 29.57 N | 68 59.52 W | June 11 2015 | 317 | 307 | 34.47 | 5.39 | 0.92 | 87.0 |
| 26 |  |  |  |  | 249 | 34.33 | 5.09 | 0.86 | 86.3 |
| 26 |  |  |  |  | 148 | 33.92 | 4.15 | 0.46 | 79.5 |
| 26 |  |  |  |  | 100 | 33.49 | 3.14 | 0.50 | 76.1 |
| 26 |  |  |  |  | 49.1 | 32.16 | 0.43 | 0.68 | 79.6 |
| 26 |  |  |  |  | 25.0 | 30.26 | 3.06 | 0.92 | 84.6 |
| 26 |  |  |  |  | 1.90 | 27.65 | 6.79 | 1.20 | 64.6 |
| 26 |  |  |  |  | 0.93 | 27.48 | 7.23 | 1.27 | 56.5 |
| 27 | 48 41.11 N | 68 35.32 W | June 10 2015 | 332 | 317 | 34.51 | 5.48 | 0.69 | 79.8 |
| 27 |  |  |  |  | 246 | 34.43 | 5.32 | 0.22 | 69.8 |
| 27 |  |  |  |  | 144 | 33.94 | 4.24 | 0.44 | 68.5 |
| 27 |  |  |  |  | 103 | 33.50 | 3.16 | 0.27 | 72.0 |
| 27 |  |  |  |  | 47.2 | 31.36 | 2.73 | 0.88 | 81.2 |
| 27 |  |  |  |  | 23.5 | 29.21 | 3.85 | 1.52 | 87.5 |
| 27 |  |  |  |  | 9.75 | 28.48 | 4.55 | 1.63 | 86.3 |
| 27 |  |  |  |  | 1.70 | 28.20 | 5.65 | 1.54 | 80.4 |
| 32 | 48 41.26 N | 68 22.37 W | June 07 2015 | 221 | 213 | 34.23 | 4.89 | 1.41 | 87.5 |
| 32 |  |  |  |  | 199 | 34.21 | 4.84 | 1.42 | 86.1 |
| 32 |  |  |  |  | 149 | 34.02 | 4.42 | 0.47 | 82.5 |
| 32 |  |  |  |  | 99.3 | 33.23 | 2.34 | 1.05 | 84.6 |
| 32 |  |  |  |  | 50.0 | 31.50 | 0.59 | 0.50 | 68.6 |
| 32 |  |  |  |  | 24.8 | 28.91 | 3.42 | 1.47 | 83.8 |
| 32 |  |  |  |  | 10.0 | 28.29 | 4.31 | 1.70 | 81.9 |
| 32 |  |  |  |  | 1.74 | 27.19 | 7.26 | 1.30 | 73.4 |
| 33 | 48 47.23 N | 68 04.91 W | June 07 2015 | 222 | 212 | 34.18 | 4.78 | 1.57 | 88.2 |
| 33 |  |  |  |  | 201 | 34.14 | 4.70 | 1.46 | 86.0 |
| 33 |  |  |  |  | 149 | 33.71 | 3.77 | 0.40 | 68.0 |
| 33 |  |  |  |  | 98.5 | 32.62 | 0.68 | 0.29 | 61.5 |
| 33 |  |  |  |  | 47.7 | 31.25 | 1.12 | 0.63 | 67.4 |
| 33 |  |  |  |  | 24.1 | 27.77 | 4.75 | 0.63 | 78.0 |
| 33 |  |  |  |  | 5.75 | 25.08 | 9.26 | 2.03 | 56.4 |
| 33 |  |  |  |  | 2.13 | 24.89 | 9.77 | 2.14 | 50.1 |
| 34 | 48 53.73 N | 67 40.23 W | June 07 2015 | 222 | 211 | 34.32 | 5.10 | 2.01 | 89.7 |
| 34 |  |  |  |  | 200 | 34.32 | 5.10 | 2.09 | 89.3 |
| 34 |  |  |  |  | 150 | 33.97 | 4.37 | 0.38 | 76.3 |
| 34 |  |  |  |  | 100 | 32.99 | 1.73 | 0.23 | 59.6 |
| 34 |  |  |  |  | 49.0 | 31.81 | -0.29 | 0.24 | 59.7 |
| 34 |  |  |  |  | 5.54 | 25.44 | 8.24 | 3.65 | 61.9 |
| 34 |  |  |  |  | 1.79 | 25.27 | 8.94 | 1.50 | 47.2 |
| 34 |  |  |  |  | 1.84 | 25.28 | 8.94 | 1.68 | 52.1 |
| 35 | 48 59.22 N | 67 19.79 W | June 09 2015 | 223 | 213 | 34.34 | 5.15 | 1.40 | 86.8 |
| 35 |  |  |  |  | 199 | 34.27 | 5.06 | 0.56 | 81.1 |
| 35 |  |  |  |  | 148 | 33.78 | 3.93 | 0.28 | 73.8 |
| 35 |  |  |  |  | 99.0 | 32.98 | 1.69 | 0.23 | 73.4 |
| 35 |  |  |  |  | 47.4 | 31.88 | -0.20 | 0.31 | 64.7 |
| 35 |  |  |  |  | 3.40 | 25.21 | 8.88 | 1.75 | 57.4 |
| 35 |  |  |  |  | 4.13 | 25.22 | 8.70 | 1.99 | 61.7 |
| 35 |  |  |  |  | 1.57 | 25.19 | 8.83 | 1.75 | 59.1 |
| 42 | 48 48.23 N | 68 32.19 W | June 10 2015 | 337 | 326 | 34.51 | 5.48 | 0.86 | 85.2 |
| 42 |  |  |  |  | 248 | 34.43 | 5.33 | 0.26 | 81.3 |
| 42 |  |  |  |  | 149 | 33.78 | 3.89 | 0.34 | 77.5 |
| 42 |  |  |  |  | 99.2 | 32.66 | 0.85 | 0.23 | 74.6 |
| 42 |  |  |  |  | 48.9 | 31.75 | 0.04 | 0.28 | 65.1 |
| 42 |  |  |  |  | 25.4 | 29.60 | 2.54 | 0.62 | 80.4 |
| 42 |  |  |  |  | 5.61 | 28.19 | 5.43 | 1.54 | 78.3 |
| 42 |  |  |  |  | 1.16 | 27.46 | 6.28 | 1.24 | 73.3 |
| 43 | 48 57.78 N | 68 13.13 W | June 10 2015 | 315 | 305 | 34.50 | 5.48 | 1.40 | 87.5 |
| 43 |  |  |  |  | 250 | 34.43 | 5.33 | 0.41 | 87.1 |
| 43 |  |  |  |  | 144 | 33.62 | 3.48 | 0.59 | 87.7 |
| 43 |  |  |  |  | 98.3 | 32.48 | 0.54 | 0.35 | 80.1 |
| 43 |  |  |  |  | 50.0 | 31.68 | 0.42 | 0.45 | 79.0 |
| 43 |  |  |  |  | 24.8 | 30.10 | 2.67 | 0.65 | 88.1 |
| 43 |  |  |  |  | 17.5 | 29.38 | 3.56 | 0.92 | 86.1 |
| 43 |  |  |  |  | 1.92 | 26.63 | 7.48 | 1.41 | 55.9 |
| 44 | 49 05.80 N | 67 49.29 W | June 09 2015 | 245 | 235 | 34.34 | 5.17 | 1.21 | 90.4 |
| 44 |  |  |  |  | 198 | 34.30 | 5.07 | 1.04 | 87.8 |
| 44 |  |  |  |  | 148 | 33.79 | 3.88 | 0.64 | 82.2 |
| 44 |  |  |  |  | 98.0 | 33.01 | 1.77 | 0.32 | 79.4 |
| 44 |  |  |  |  | 47.7 | 32.17 | -0.14 | 0.55 | 77.4 |
| 44 |  |  |  |  | 24.4 | 31.50 | 0.99 | 0.37 | 84.9 |
| 44 |  |  |  |  | 3.08 | 26.72 | 6.72 | 1.76 | 67.1 |
| 44 |  |  |  |  | 1.47 | 26.18 | 7.84 | 1.76 | 61.7 |
| 45 | 49 13.03 N | 67 27.44 W | June 09 2015 | 297 | 287 | 34.58 | 5.67 | 1.23 | 85.2 |
| 45 |  |  |  |  | 248 | 34.52 | 5.61 | 0.38 | 78.0 |
| 45 |  |  |  |  | 150 | 33.83 | 4.09 | 0.26 | 67.6 |
| 45 |  |  |  |  | 99.4 | 33.27 | 2.54 | 0.28 | 75.4 |
| 45 |  |  |  |  | 48.2 | 32.23 | -0.17 | 0.46 | 70.7 |
| 45 |  |  |  |  | 22.9 | 30.99 | 1.49 | 0.55 | 64.2 |
| 45 |  |  |  |  | 11.1 | 28.37 | 5.47 | 1.45 | 64.7 |
| 45 |  |  |  |  | 1.78 | 26.26 | 9.85 | 1.46 | 47.9 |

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|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Station | Latitude | Longitude | Date | Total depth | Sample depth | Salinity | Temperature | SPM | PIM |
|  |  |  | Month DD YYYY | m | m | PSU | oC | mg/l | % |
| 6 | 47 26.64 N | 70 08.95 W | August 21 2016 | 25.5 | 20.9 | 19.53 | 12.5 | 36.2 | 95.0 |
| 6 |  |  |  |  | 1.51 | 15.64 | 15.4 | 29.9 | 92.9 |
| 7 | 47 35.92 N | 69 57.62 W | August 21 2016 | 26.4 | 21.7 | 24.82 | 8.32 | 6.33 | 93.8 |
| 7 |  |  |  |  | 1.58 | 23.83 | 9.38 | 4.38 | 92.4 |
| 8 | 47 57.38 N | 69 35.31 W | August 20 2016 | 34.8 | 30.0 | 29.56 | 4.96 | 1.02 | 85.9 |
| 8 |  |  |  |  | 1.78 | 28.22 | 6.27 | 1.29 | 83.2 |
| 11 | 48 04.38 N | 69 27.75 W | August 23 2016 | 94.7 | 83.8 | 32.53 | 2.68 | 0.57 | 81.4 |
| 11 |  |  |  |  | 51.5 | 31.98 | 2.79 | 0.65 | 76.1 |
| 11 |  |  |  |  | 25.3 | 31.17 | 3.83 | 0.99 | 78.5 |
| 11 |  |  |  |  | 10.6 | 30.33 | 4.83 | 1.12 | 80.1 |
| 11 |  |  |  |  | 1.50 | 28.96 | 6.43 | 1.46 | 84.6 |
| 12 | 47 43.49 N | 69 55.30 W | August 21 2016 | 129 | 117 | 30.22 | 4.16 | 1.50 | 88.6 |
| 12 |  |  |  |  | 100 | 30.21 | 4.16 | 1.68 | 90.8 |
| 12 |  |  |  |  | 49.8 | 29.92 | 4.34 | 1.22 | 88.0 |
| 12 |  |  |  |  | 25.1 | 28.16 | 5.89 | 1.21 | 86.9 |
| 12 |  |  |  |  | 10.0 | 25.39 | 7.99 | 1.87 | 91.2 |
| 12 |  |  |  |  | 1.52 | 24.87 | 8.67 | 1.86 | 91.1 |
| 13 | 47 54.73 N | 69 46.92 W | August 21 2016 | 124 | 112 | 31.67 | 3.25 | 0.87 | 80.3 |
| 13 |  |  |  |  | 96.0 | 31.33 | 3.54 | 0.96 | 80.0 |
| 13 |  |  |  |  | 50.7 | 30.68 | 4.13 | 0.73 | 75.8 |
| 13 |  |  |  |  | 24.8 | 29.87 | 4.98 | 1.13 | 79.2 |
| 13 |  |  |  |  | 10.3 | 29.08 | 5.64 | 1.24 | 80.4 |
| 13 |  |  |  |  | 1.67 | 28.68 | 6.00 | 1.24 | 82.2 |
| 14 | 47 31.73 N | 70 10.66 W | August 21 2016 | 87.0 | 79.6 | 28.96 | 5.01 | 21.7 | 94.4 |
| 14 |  |  |  |  | 49.6 | 27.26 | 6.32 | 22.1 | 94.4 |
| 14 |  |  |  |  | 24.6 | 25.39 | 7.71 | 19.2 | 94.3 |
| 14 |  |  |  |  | 12.7 | 24.46 | 8.41 | 13.9 | 93.9 |
| 14 |  |  |  |  | 1.66 | 23.43 | 9.17 | 12.1 | 93.6 |
| 21 | 48 14.66 N | 69 23.83 W | August 20 2016 | 320 | 310 | 34.37 | 5.32 | 4.29 | 92.1 |
| 21 |  |  |  |  | 250 | 34.22 | 4.97 | 0.45 | 91.8 |
| 21 |  |  |  |  | 150 | 33.59 | 3.64 | 0.45 | 88.8 |
| 21 |  |  |  |  | 100 | 33.22 | 3.12 | 0.45 | 83.4 |
| 21 |  |  |  |  | 49.7 | 31.47 | 2.98 | 0.55 | 79.2 |
| 21 |  |  |  |  | 24.7 | 30.21 | 4.48 | 0.54 | 70.6 |
| 21 |  |  |  |  | 10.0 | 28.71 | 7.20 | 1.39 | 52.5 |
| 21 |  |  |  |  | 1.90 | 27.37 | 10.8 | 2.16 | 44.9 |
| 22 | 48 07.42 N | 69 32.76 W | August 20 2016 | 128 | 119 | 33.72 | 3.84 | 1.06 | 92.9 |
| 22 |  |  |  |  | 102 | 33.54 | 3.44 | 0.51 | 89.0 |
| 22 |  |  |  |  | 50.5 | 32.51 | 3.16 | 0.65 | 83.9 |
| 22 |  |  |  |  | 24.9 | 30.44 | 4.14 | 0.84 | 74.7 |
| 22 |  |  |  |  | 15.9 | 30.31 | 4.34 | 0.97 | 74.2 |
| 22 |  |  |  |  | 1.64 | 28.64 | 6.27 | 1.17 | 77.3 |
| 24 | 48 09.26 N | 69 22.24 W | August 23 2016 | 65.8 | 55.0 | 33.49 | 3.76 | 0.81 | 88.8 |
| 24 |  |  |  |  | 50.9 | 33.08 | 3.51 | 0.70 | 84.2 |
| 24 |  |  |  |  | 28.2 | 30.45 | 4.67 | 1.13 | 82.0 |
| 24 |  |  |  |  | 18.2 | 29.93 | 5.15 | 1.06 | 74.8 |
| 24 |  |  |  |  | 1.65 | 29.20 | 5.98 | 1.15 | 80.8 |
| 25 | 48 16.73 N | 69 11.57 W | August 23 2016 | 174 | 167 | 33.97 | 4.43 | 0.93 | 89.3 |
| 25 |  |  |  |  | 149 | 33.98 | 4.44 | 0.74 | 90.1 |
| 25 |  |  |  |  | 104 | 33.78 | 4.03 | 0.50 | 85.7 |
| 25 |  |  |  |  | 51.1 | 32.65 | 3.51 | 0.70 | 81.4 |
| 25 |  |  |  |  | 25.1 | 30.66 | 4.58 | 0.93 | 73.2 |
| 25 |  |  |  |  | 10.2 | 30.14 | 5.03 | 1.16 | 81.1 |
| 25 |  |  |  |  | 3.23 | 29.04 | 7.48 | 1.93 | 49.0 |
| 26 | 48 29.12 N | 68 59.81 W | August 20 2016 | 309 | 300 | 34.47 | 5.56 | 1.35 | 91.1 |
| 26 |  |  |  |  | 250 | 34.38 | 5.34 | 1.07 | 88.4 |
| 26 |  |  |  |  | 149 | 33.99 | 4.46 | 0.36 | 84.0 |
| 26 |  |  |  |  | 98.9 | 33.30 | 2.91 | 0.48 | 82.3 |
| 26 |  |  |  |  | 49.9 | 31.91 | 2.40 | 0.52 | 82.9 |
| 26 |  |  |  |  | 24.5 | 30.53 | 4.04 | 0.65 | 77.3 |
| 26 |  |  |  |  | 9.14 | 29.79 | 5.08 | 0.77 | 70.6 |
| 26 |  |  |  |  | 1.86 | 27.46 | 9.35 | 2.27 | 44.7 |
| 27 | 48 41.14 N | 68 35.32 W | August 27 2016 | 332 | 326 | 34.50 | 5.63 | 0.63 | 88.5 |
| 27 |  |  |  |  | 248 | 34.42 | 5.46 | 0.32 | 83.1 |
| 27 |  |  |  |  | 149 | 33.87 | 4.22 | 0.29 | 82.6 |
| 27 |  |  |  |  | 99.5 | 33.41 | 3.09 | 0.30 | 82.3 |
| 27 |  |  |  |  | 50.3 | 31.42 | 4.01 | 0.73 | 78.3 |
| 27 |  |  |  |  | 23.9 | 29.91 | 5.49 | 1.28 | 77.8 |
| 27 |  |  |  |  | 6.30 | 29.06 | 6.93 | 1.54 | 53.7 |
| 27 |  |  |  |  | 1.94 | 28.84 | 8.68 | 2.38 | 44.5 |
| 32 | 48 41.79 N | 68 22.17 W | August 19 2016 | 241 | 232 | 34.41 | 5.42 | 0.78 | 87.5 |
| 32 |  |  |  |  | 200 | 34.23 | 5.01 | 0.48 | 82.0 |
| 32 |  |  |  |  | 150 | 33.89 | 4.28 | 0.24 | 75.0 |
| 32 |  |  |  |  | 101 | 32.88 | 1.83 | 0.15 | 56.5 |
| 32 |  |  |  |  | 49.9 | 31.29 | 2.02 | 0.22 | 68.6 |
| 32 |  |  |  |  | 24.8 | 29.12 | 6.13 | 0.39 | 71.0 |
| 32 |  |  |  |  | 9.67 | 28.02 | 6.92 | 0.74 | 73.2 |
| 32 |  |  |  |  | 2.04 | 26.67 | 11.0 | 1.54 | 47.8 |
| 33 | 48 47.28 N | 68 05.05 W | August 19 2016 | 232 | 223 | 34.37 | 5.34 | 0.85 | 87.1 |
| 33 |  |  |  |  | 200 | 34.30 | 5.22 | 0.35 | 83.7 |
| 33 |  |  |  |  | 150 | 33.91 | 4.35 | 0.25 | 80.0 |
| 33 |  |  |  |  | 100 | 33.16 | 2.49 | 0.16 | 71.5 |
| 33 |  |  |  |  | 49.7 | 31.70 | 1.33 | 0.25 | 73.3 |
| 33 |  |  |  |  | 25.0 | 30.22 | 4.39 | 0.54 | 63.4 |
| 33 |  |  |  |  | 10.0 | 28.65 | 7.31 | 0.88 | 60.1 |
| 33 |  |  |  |  | 1.88 | 26.83 | 13.8 | 1.23 | 46.0 |
| 34 | 48 53.63 N | 67 40.63 W | August 25 2016 | 227 | 219 | 34.28 | 5.12 | 1.43 | 90.7 |
| 34 |  |  |  |  | 201 | 34.18 | 4.90 | 0.87 | 87.9 |
| 34 |  |  |  |  | 150 | 33.97 | 4.45 | 0.52 | 85.2 |
| 34 |  |  |  |  | 101 | 33.25 | 2.70 | 0.43 | 82.9 |
| 34 |  |  |  |  | 49.1 | 31.33 | 2.25 | 0.37 | 75.6 |
| 34 |  |  |  |  | 24.3 | 29.06 | 5.86 | 0.68 | 70.4 |
| 34 |  |  |  |  | 6.61 | 27.71 | 8.93 | 1.97 | 52.3 |
| 34 |  |  |  |  | 2.40 | 27.21 | 10.9 | 1.95 | 45.9 |
| 35 | 48 59.07 N | 67 20.19 W | August 25 2016 | 220 | 211 | 34.20 | 4.95 | 1.33 | 91.2 |
| 35 |  |  |  |  | 201 | 34.16 | 4.85 | 1.35 | 90.2 |
| 35 |  |  |  |  | 150 | 33.77 | 4.03 | 0.25 | 79.3 |
| 35 |  |  |  |  | 98.7 | 32.71 | 1.44 | 0.11 | 63.4 |
| 35 |  |  |  |  | 49.8 | 31.43 | 2.45 | 0.22 | 58.2 |
| 35 |  |  |  |  | 25.3 | 29.35 | 5.51 | 0.68 | 63.3 |
| 35 |  |  |  |  | 11.9 | 27.80 | 8.70 | 2.67 | 52.8 |
| 35 |  |  |  |  | 1.85 | 26.26 | 12.2 | 1.90 | 48.7 |
| 42 | 48 47.56 N | 68 32.87 W | August 19 2016 | 334 | 324 | 34.51 | 5.63 | 0.87 | 88.1 |
| 42 |  |  |  |  | 249 | 34.40 | 5.45 | 0.67 | 88.9 |
| 42 |  |  |  |  | 150 | 33.66 | 3.73 | 0.29 | 74.7 |
| 42 |  |  |  |  | 101 | 32.74 | 1.52 | 0.23 | 70.0 |
| 42 |  |  |  |  | 49.5 | 31.89 | 0.85 | 0.24 | 68.9 |
| 42 |  |  |  |  | 24.7 | 30.72 | 3.57 | 0.59 | 77.6 |
| 42 |  |  |  |  | 10.0 | 28.88 | 6.28 | 0.67 | 64.9 |
| 42 |  |  |  |  | 2.08 | 27.20 | 11.5 | 1.77 | 48.1 |
| 43 | 48 57.82 N | 68 13.20 W | August 27 2016 | 313 | 306 | 34.53 | 5.69 | 1.07 | 90.4 |
| 43 |  |  |  |  | 254 | 34.47 | 5.57 | 0.26 | 83.8 |
| 43 |  |  |  |  | 163 | 33.85 | 4.21 | 0.21 | 73.4 |
| 43 |  |  |  |  | 102 | 32.89 | 1.89 | 0.30 | 79.5 |
| 43 |  |  |  |  | 47.0 | 31.99 | 0.83 | 0.24 | 62.7 |
| 43 |  |  |  |  | 26.0 | 31.30 | 2.17 | 0.30 | 73.4 |
| 43 |  |  |  |  | 4.60 | 28.44 | 7.69 | 2.01 | 45.6 |
| 43 |  |  |  |  | 1.97 | 27.66 | 9.66 | 1.41 | 45.2 |
| 44 | 49 05.81 N | 67 49.22 W | August 26 2016 | 244 | 236 | 34.42 | 5.52 | 1.23 | 90.6 |
| 44 |  |  |  |  | 200 | 34.23 | 5.16 | 0.18 | 74.9 |
| 44 |  |  |  |  | 150 | 33.78 | 4.01 | 0.28 | 81.4 |
| 44 |  |  |  |  | 99.1 | 32.96 | 2.00 | 0.17 | 71.2 |
| 44 |  |  |  |  | 49.3 | 31.99 | 0.90 | 0.20 | 62.2 |
| 44 |  |  |  |  | 24.7 | 30.84 | 3.07 | 0.30 | 74.5 |
| 44 |  |  |  |  | 6.72 | 28.55 | 7.41 | 1.07 | 62.1 |
| 44 |  |  |  |  | 1.79 | 26.95 | 12.7 | 1.35 | 46.8 |
| 45 | 49 12.88 N | 67 27.48 W | August 26 2016 | 297 | 290 | 34.57 | 5.76 | 0.91 | 89.2 |
| 45 |  |  |  |  | 250 | 34.40 | 5.45 | 0.34 | 79.0 |
| 45 |  |  |  |  | 149 | 33.80 | 4.07 | 0.19 | 73.2 |
| 45 |  |  |  |  | 99.8 | 32.84 | 1.74 | 0.11 | 60.4 |
| 45 |  |  |  |  | 48.6 | 31.93 | 0.73 | 0.21 | 58.8 |
| 45 |  |  |  |  | 24.2 | 31.01 | 2.93 | 0.26 | 60.6 |
| 45 |  |  |  |  | 7.56 | 28.46 | 8.24 | 1.40 | 43.6 |
| 45 |  |  |  |  | 1.89 | 27.54 | 10.4 | 1.20 | 42.2 |

Cruise IML-2014-37, P4

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Station | Latitude | Longitude | Date | Total depth | Sample depth | Salinity | Temperature | SPM | PIM |
|  |  |  | Month DD YYYY | m | m | PSU | oC | mg/l | % |
| 6 | 47 26.73 N | 70 08.92 W | Nov 06 2014 | 30.4 | 19.2 | 19.92 | 3.50 | 22.1 | 92.8 |
| 6 |  |  |  |  | 2.53 | 15.64 | 4.45 | 10.9 | 92.5 |
| 7 | 47 36.22 N | 69 57.48 W | Nov 06 2014 | 31.1 | 21.0 | 28.70 | 2.71 | 4.14 | 90.4 |
| 7 |  |  |  |  | 2.78 | 20.26 | 4.56 | 3.84 | 88.7 |
| 8 | 47 57.27 N | 69 35.47 W | Nov 06 2014 | 34.6 | 25.1 | 27.79 | 2.70 | 2.55 | 87.3 |
| 8 |  |  |  |  | 2.29 | 23.37 | 3.85 | 2.40 | 86.8 |
| 11 | 48 04.30 N | 69 28.04 W | Nov 06 2014 | 94.2 | 85.3 | 29.46 | 2.27 | 1.98 | 84.8 |
| 11 |  |  |  |  | 53.5 | 28.38 | 2.56 | 1.85 | 96.0 |
| 11 |  |  |  |  | 26.4 | 27.64 | 2.73 | 1.79 | 89.3 |
| 11 |  |  |  |  | 5.27 | 27.29 | 2.81 | 2.48 | 80.9 |
| 11 |  |  |  |  | 1.88 | 26.96 | 2.89 | 1.80 | 95.3 |
| 12 | 47 42.42 N | 69 54.98 W | Nov 06 2014 | 96.7 | 87.7 | 29.20 | 2.55 | 3.39 | 88.3 |
| 12 |  |  |  |  | 51.8 | 29.06 | 2.50 | 1.92 | 87.4 |
| 12 |  |  |  |  | 51.8 | 29.07 | 2.50 | 2.06 | 83.4 |
| 12 |  |  |  |  | 25.8 | 28.07 | 2.80 | 2.08 | 87.4 |
| 12 |  |  |  |  | 5.99 | 20.47 | 4.49 | 3.47 | 88.6 |
| 12 |  |  |  |  | 2.79 | 20.52 | 4.46 | 3.65 | 88.8 |
| 13 | 47 55.00 N | 69 46.70 W | Nov 06 2014 | 126 | 116 | 30.64 | 1.84 | 1.15 | 86.0 |
| 13 |  |  |  |  | 101 | 30.60 | 1.86 | 1.18 | 83.4 |
| 13 |  |  |  |  | 51.0 | 29.45 | 2.29 | 1.81 | 86.9 |
| 13 |  |  |  |  | 25.5 | 27.95 | 2.69 | 1.57 | 84.3 |
| 13 |  |  |  |  | 5.03 | 24.09 | 3.70 | 2.19 | 88.3 |
| 13 |  |  |  |  | 2.86 | 23.54 | 3.88 | 4.29 | 73.8 |
| 14 | 47 32.02 N | 70 10.33 W | Nov 06 2014 | 92.6 | 83.5 | 26.84 | 3.12 | 6.77 | 91.9 |
| 14 |  |  |  |  | 52.3 | 23.06 | 3.92 | 17.0 | 92.8 |
| 14 |  |  |  |  | 50.3 | 24.28 | 3.67 | 19.0 | 90.7 |
| 14 |  |  |  |  | 25.3 | 20.48 | 4.43 | 15.4 | 91.5 |
| 14 |  |  |  |  | 1.65 | 19.16 | 4.69 | 8.18 | 89.5 |
| 21 | 48 15.82 N | 69 21.78 W | Nov 06 2014 | 324 | 314 | 34.32 | 4.97 | 2.99 | 89.4 |
| 21 |  |  |  |  | 250 | 34.08 | 4.39 | 1.01 | 85.7 |
| 21 |  |  |  |  | 150 | 33.02 | 1.90 | 0.76 | 73.2 |
| 21 |  |  |  |  | 101 | 32.30 | 0.88 | 0.49 | 75.8 |
| 21 |  |  |  |  | 51.4 | 31.43 | 2.21 | 0.55 | 74.6 |
| 21 |  |  |  |  | 25.8 | 29.77 | 2.54 | 0.84 | 79.6 |
| 21 |  |  |  |  | 10.5 | 28.33 | 2.91 | 0.84 | 80.7 |
| 21 |  |  |  |  | 2.91 | 27.39 | 3.18 | 0.78 | 79.5 |
| 22 | 48 06.74 N | 69 33.77 W | Nov 06 2014 | 124 | 117 | 32.06 | 1.23 | 0.64 | 80.9 |
| 22 |  |  |  |  | 103 | 29.98 | 2.06 | 1.27 | 83.1 |
| 22 |  |  |  |  | 51.3 | 28.92 | 2.39 | 1.34 | 81.9 |
| 22 |  |  |  |  | 25.6 | 27.43 | 2.86 | 1.34 | 87.1 |
| 22 |  |  |  |  | 10.4 | 27.32 | 2.90 | 1.67 | 86.1 |
| 22 |  |  |  |  | 2.93 | 27.32 | 2.89 | 1.98 | 81.7 |
| 24 | 48 09.22 N | 69 22.34 W | Nov 06 2014 | 65.2 | 56.0 | 31.46 | 1.59 | 1.37 | 82.0 |
| 24 |  |  |  |  | 51.7 | 30.82 | 1.82 | 0.84 | 85.6 |
| 24 |  |  |  |  | 26.1 | 28.08 | 2.64 | 1.74 | 81.7 |
| 24 |  |  |  |  | 15.2 | 27.58 | 2.77 | 2.74 | 85.0 |
| 24 |  |  |  |  | 2.37 | 27.51 | 2.78 | 1.97 | 83.6 |
| 25 | 48 16.58 N | 69 11.38 W | Nov 06 2014 | 155 | 144 | 32.84 | 1.56 | 0.75 | 79.2 |
| 25 |  |  |  |  | 102 | 32.18 | 1.26 | 0.65 | 80.8 |
| 25 |  |  |  |  | 50.7 | 29.04 | 2.43 | 1.43 | 85.0 |
| 25 |  |  |  |  | 25.4 | 28.24 | 2.65 | 1.72 | 81.3 |
| 25 |  |  |  |  | 5.47 | 26.26 | 3.11 | 1.60 | 85.7 |
| 25 |  |  |  |  | 2.06 | 26.27 | 3.11 | 1.58 | 84.2 |
| 26 | 48 29.58 N | 68 59.54 W | Nov 06 2014 | 319 | 310 | 34.35 | 5.03 | 1.28 | 84.6 |
| 26 |  |  |  |  | 252 | 33.93 | 4.04 | 0.67 | 70.8 |
| 26 |  |  |  |  | 151 | 32.48 | 0.87 | 0.46 | 74.8 |
| 26 |  |  |  |  | 100 | 31.97 | 1.24 | 0.51 | 67.4 |
| 26 |  |  |  |  | 50.8 | 30.06 | 4.45 | 1.06 | 65.6 |
| 26 |  |  |  |  | 25.3 | 27.46 | 3.08 | 1.12 | 82.0 |
| 26 |  |  |  |  | 5.16 | 26.75 | 3.13 | 1.35 | 79.3 |
| 26 |  |  |  |  | 2.73 | 26.72 | 3.13 | 1.70 | 75.9 |
| 27 | 48 41.11 N | 68 35.32 W | Nov 05 2014 | 330 | 320 | 34.45 | 5.27 | 0.73 | 87.5 |
| 27 |  |  |  |  | 252 | 34.13 | 4.53 | 0.55 | 73.9 |
| 27 |  |  |  |  | 151 | 32.80 | 1.42 | 0.65 | 90.4 |
| 27 |  |  |  |  | 100 | 32.29 | 0.96 | 0.54 | 92.4 |
| 27 |  |  |  |  | 50.7 | 31.03 | 2.20 | 0.82 | 90.7 |
| 27 |  |  |  |  | 50.8 | 31.02 | 2.20 | 1.12 | 79.5 |
| 27 |  |  |  |  | 25.6 | 29.27 | 3.24 | 0.67 | 71.6 |
| 27 |  |  |  |  | 2.73 | 27.75 | 3.86 | 0.63 | 67.3 |
| 32 | 48 41.25 N | 68 22.37 W | Nov 05 2014 | 215 | 205 | 32.99 | 1.78 | 0.81 | 78.0 |
| 32 |  |  |  |  | 200 | 32.94 | 1.65 | 0.78 | 68.3 |
| 32 |  |  |  |  | 151 | 32.64 | 0.96 | 0.58 | 58.9 |
| 32 |  |  |  |  | 101 | 31.93 | 1.69 | 0.45 | 57.5 |
| 32 |  |  |  |  | 51.1 | 30.23 | 5.02 | 0.44 | 57.4 |
| 32 |  |  |  |  | 25.2 | 29.60 | 5.28 | 1.16 | 61.0 |
| 32 |  |  |  |  | 13.2 | 28.57 | 3.52 | 0.86 | 77.4 |
| 32 |  |  |  |  | 2.55 | 27.80 | 3.47 | 1.09 | 72.1 |
| 33 | 48 47.52 N | 68 05.19 W | Nov 07 2014 | 231 | 219 | 33.95 | 4.15 | 1.00 | 89.7 |
| 33 |  |  |  |  | 201 | 33.88 | 3.99 | 0.72 | 82.7 |
| 33 |  |  |  |  | 151 | 33.06 | 1.93 | 0.32 | 58.6 |
| 33 |  |  |  |  | 100 | 32.33 | 1.01 | 0.55 | 66.4 |
| 33 |  |  |  |  | 51.5 | 31.75 | 2.53 | 0.38 | 57.9 |
| 33 |  |  |  |  | 25.5 | 30.63 | 4.29 | 0.39 | 56.2 |
| 33 |  |  |  |  | 10.6 | 30.49 | 4.50 | 0.43 | 50.8 |
| 33 |  |  |  |  | 2.55 | 30.21 | 4.50 | 0.45 | 46.4 |
| 34 | 48 54.62 N | 67 40.48 W | Nov 07 2014 | 260 | 248 | 34.01 | 4.31 | 1.03 | 81.1 |
| 34 |  |  |  |  | 200 | 33.56 | 3.21 | 0.47 | 75.5 |
| 34 |  |  |  |  | 150 | 32.73 | 1.19 | 0.57 | 75.8 |
| 34 |  |  |  |  | 101 | 32.34 | 0.87 | 0.72 | 69.3 |
| 34 |  |  |  |  | 50.9 | 31.57 | 2.91 | 0.49 | 84.9 |
| 34 |  |  |  |  | 25.4 | 30.41 | 4.19 | 0.35 | 56.2 |
| 34 |  |  |  |  | 10.3 | 28.76 | 4.30 | 0.50 | 72.7 |
| 34 |  |  |  |  | 2.55 | 27.74 | 3.66 | 0.66 | 72.8 |
| 35 | 48 58.84 N | 67 18.08 W | Nov 07 2014 | 178 | 170 | 33.28 | 2.49 | 1.08 | 87.9 |
| 35 |  |  |  |  | 151 | 33.04 | 1.86 | 0.97 | 84.3 |
| 35 |  |  |  |  | 101 | 32.57 | 0.93 | 0.07 | nd |
| 35 |  |  |  |  | 51.1 | 31.76 | 2.26 | 0.35 | 51.9 |
| 35 |  |  |  |  | 25.3 | 30.27 | 4.21 | 0.47 | 47.4 |
| 35 |  |  |  |  | 5.34 | 28.00 | 3.71 | 1.27 | 76.1 |
| 35 |  |  |  |  | 2.42 | 28.01 | 3.72 | 0.91 | nd |
| 42 | 48 48.24 N | 68 32.23 W | Nov 07 2014 | 338 | 329 | 34.47 | 5.32 | 1.19 | 80.5 |
| 42 |  |  |  |  | 251 | 34.18 | 4.68 | 0.54 | 72.0 |
| 42 |  |  |  |  | 150 | 32.77 | 1.33 | 0.35 | 76.1 |
| 42 |  |  |  |  | 100 | 31.98 | 1.98 | 0.35 | 77.3 |
| 42 |  |  |  |  | 50.4 | 31.03 | 3.99 | 0.32 | 59.9 |
| 42 |  |  |  |  | 25.2 | 29.80 | 5.12 | 0.73 | 67.6 |
| 42 |  |  |  |  | 10.6 | 28.94 | 3.80 | 0.86 | 82.1 |
| 42 |  |  |  |  | 1.99 | 27.83 | 3.60 | 0.82 | 74.7 |
| 43 | 48 57.75 N | 68 13.14 W | Nov 07 2014 | 317 | 306 | 34.48 | 5.34 | 1.37 | 85.8 |
| 43 |  |  |  |  | 250 | 34.22 | 4.76 | 0.35 | 74.6 |
| 43 |  |  |  |  | 151 | 32.48 | 1.05 | 0.44 | 79.4 |
| 43 |  |  |  |  | 101 | 31.86 | 2.44 | 0.45 | 60.5 |
| 43 |  |  |  |  | 50.1 | 30.95 | 4.27 | 0.20 | 49.5 |
| 43 |  |  |  |  | 25.3 | 30.60 | 4.31 | 0.22 | 43.0 |
| 43 |  |  |  |  | 10.4 | 30.25 | 4.32 | 0.31 | 44.9 |
| 43 |  |  |  |  | 2.16 | 30.03 | 4.35 | 0.33 | 50.6 |
| 44 | 49 05.78 N | 67 49.22 W | Nov 07 2014 | 246 | 235 | 34.10 | 4.54 | 1.75 | 89.3 |
| 44 |  |  |  |  | 201 | 33.75 | 3.72 | 0.88 | 86.0 |
| 44 |  |  |  |  | 150 | 32.41 | 0.99 | 0.50 | 74.0 |
| 44 |  |  |  |  | 100 | 31.88 | 2.44 | 0.26 | 66.2 |
| 44 |  |  |  |  | 50.9 | 31.07 | 4.26 | 0.35 | 55.9 |
| 44 |  |  |  |  | 25.5 | 30.63 | 4.51 | 0.37 | 60.8 |
| 44 |  |  |  |  | 7.61 | 30.62 | 4.50 | 0.35 | 50.8 |
| 44 |  |  |  |  | 2.42 | 30.61 | 4.52 | 0.27 | 87.8 |
| 45 | 49 13.09 N | 67 27.55 W | Nov 07 2014 | 294 | 285 | 34.42 | 5.26 | 1.90 | 86.4 |
| 45 |  |  |  |  | 251 | 34.14 | 4.62 | 1.40 | 84.0 |
| 45 |  |  |  |  | 150 | 32.52 | 0.74 | 0.23 | 68.7 |
| 45 |  |  |  |  | 101 | 31.70 | 3.03 | 0.34 | 66.2 |
| 45 |  |  |  |  | 50.9 | 31.31 | 4.19 | 0.34 | 55.0 |
| 45 |  |  |  |  | 25.5 | 31.17 | 4.37 | 0.53 | 66.1 |
| 45 |  |  |  |  | 11.0 | 30.56 | 4.59 | 0.29 | 81.7 |
| 45 |  |  |  |  | 2.25 | 30.39 | 4.52 | 0.14 | nd |