

Halifax Harbour Water Quality Monitoring Project Weekly Summary #11

Survey Date: 31 Aug 04
Nature of Survey: Complete Survey
Report File (this document): HHWQMP_report011_040831.doc
Data File: HHWQMP_data011_040831.xls

Data Return:
 Profile: 19%
 Bacteria: 98%
 Chemical: 100%
Overall: 65%

Data Notes:

The CTD failed due to a faulty cell in the battery pack. Six profiles were collected before battery voltage dropped below the sampling threshold.

One coliform sample is missing due to lab error.

QA/QC samples:

| Parameter | units | H2-1m | | H2- 10m | |
|------------------------|-----------|------------------|-------|------------------|--------|
| | | reference sample | QA/QC | reference sample | Dup |
| Fecal Coliform | CFU/100ml | n/a | n/a | 0 | n/a |
| Ammonia (as N) | mg/L | <0.05 | <0.05 | < 0.05 | < 0.05 |
| Total Suspended Solids | mg/L | 4.4 | 2.9 | < 4.5 | n/a |
| Boron | ug/L | 3800 | 3600 | 3800 | 4000 |
| Lithium | ug/L | 180 | 170 | 180 | 190 |
| Strontium | ug/L | 6900 | 6800 | 7200 | 7100 |
| Titanium | ug/L | 89 | 83 | 94 | 96 |
| Uranium | ug/L | 2.8 | 2.9 | 3.1 | 3 |
| Vanadium | ug/L | <20 | <20 | <20 | 22 |

Fecal Coliform (CFU/ml)

| Site | EE1-1m | EE1-10m | E1-10m | E3-10m | H2-1m | H3-10m |
|-----------|--------|---------|--------|--------|-------|--------|
| Reference | 20 | 1 | 1 | 0 | 0 | 1 |
| QA/QC | 1 | 2 | 0 | 5 | 0 | 2 |

Regulated parameters with all samples below EQL (non-detectible):

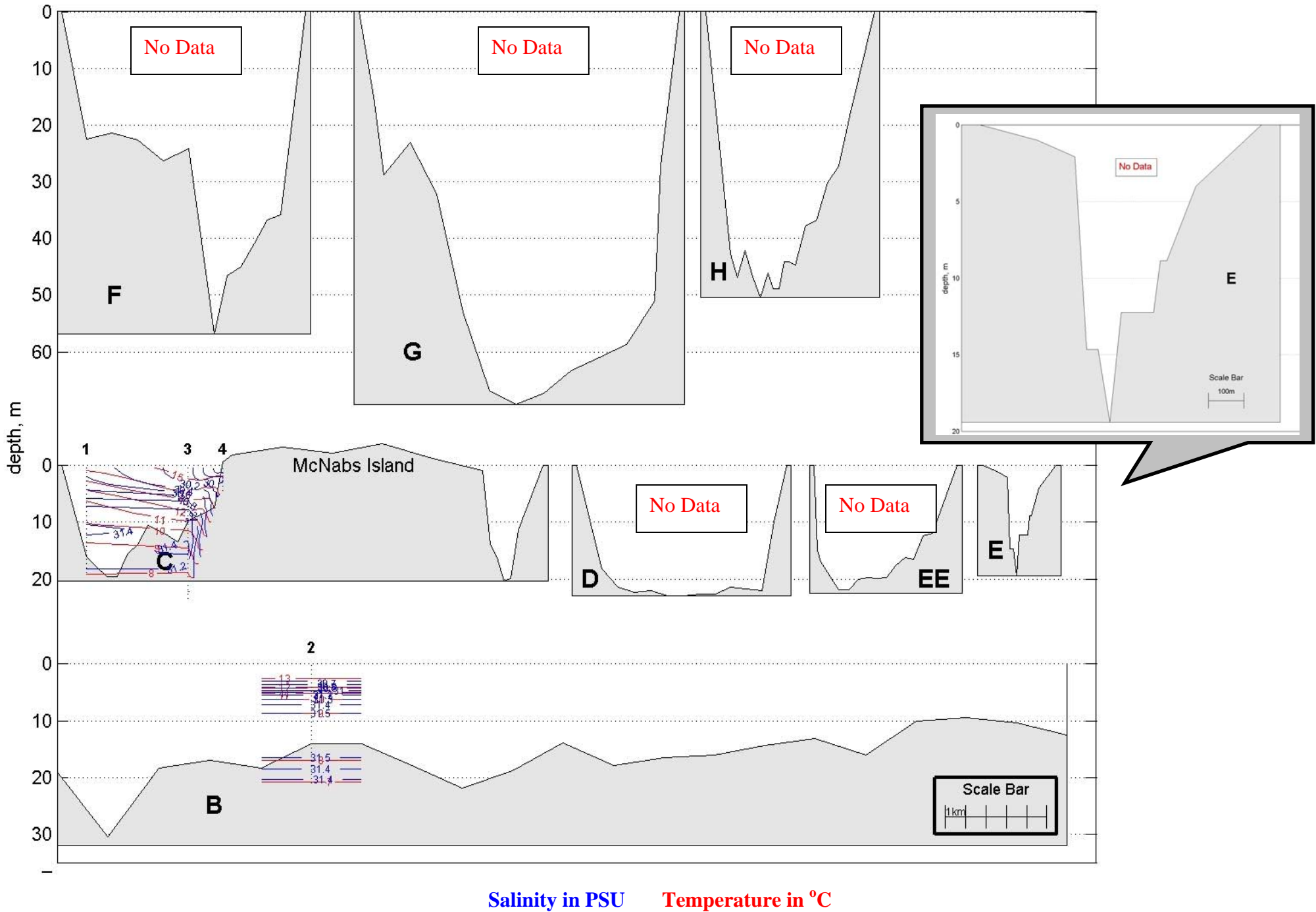
| Parameter | EQL(µg/L) | Parameter | EQL(µg/L) | Parameter | EQL(mg/L) |
|-----------|-----------|-----------|-----------|-------------------|-----------|
| Cadmium | 3 | Nickel | 20 | Oil and Grease | 5 |
| Chromium | 20 | Zinc | 50 | CBOD ₅ | 5 |
| Copper | 20 | | | | |
| Lead | 5 | | | | |

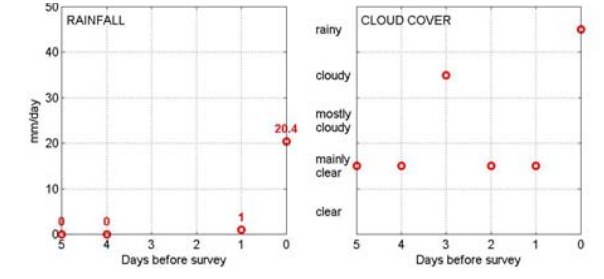
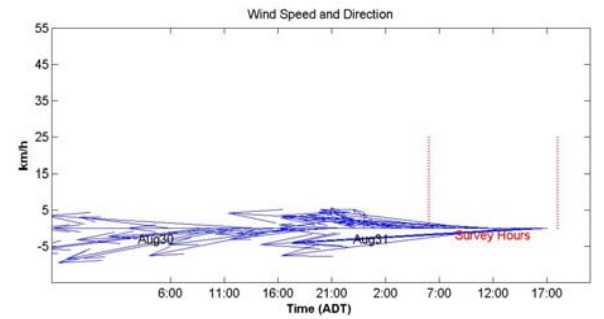
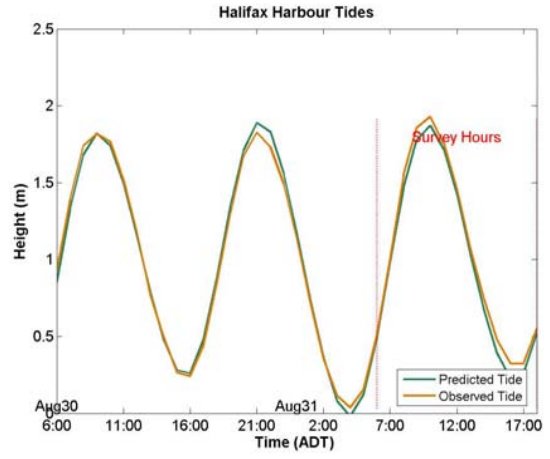
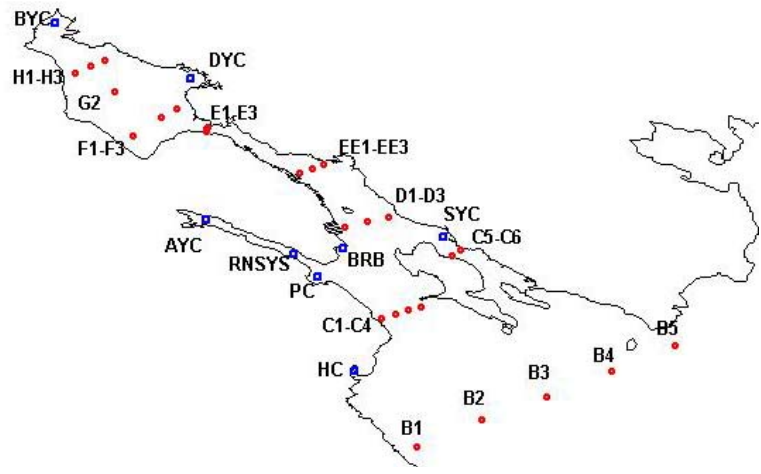
Detectible non regulated metals

| Metal | EQL (µg/L) | Number >EQL | Mean (µg/L) | Range (µg/L) |
|-----------|------------|-------------|-------------|--------------|
| Boron | 500 | 16 | 3900 | 3500-4200 |
| Lithium | 20 | 16 | 180 | 160-200 |
| Strontium | 50 | 16 | 7000 | 6800-7200 |
| Titanium | 20 | 16 | 86 | 79-96 |
| Uranium | 1 | 16 | 3.1 | 2.8-3.8 |
| Vanadium | 20 | 1 | 22 | 22 |

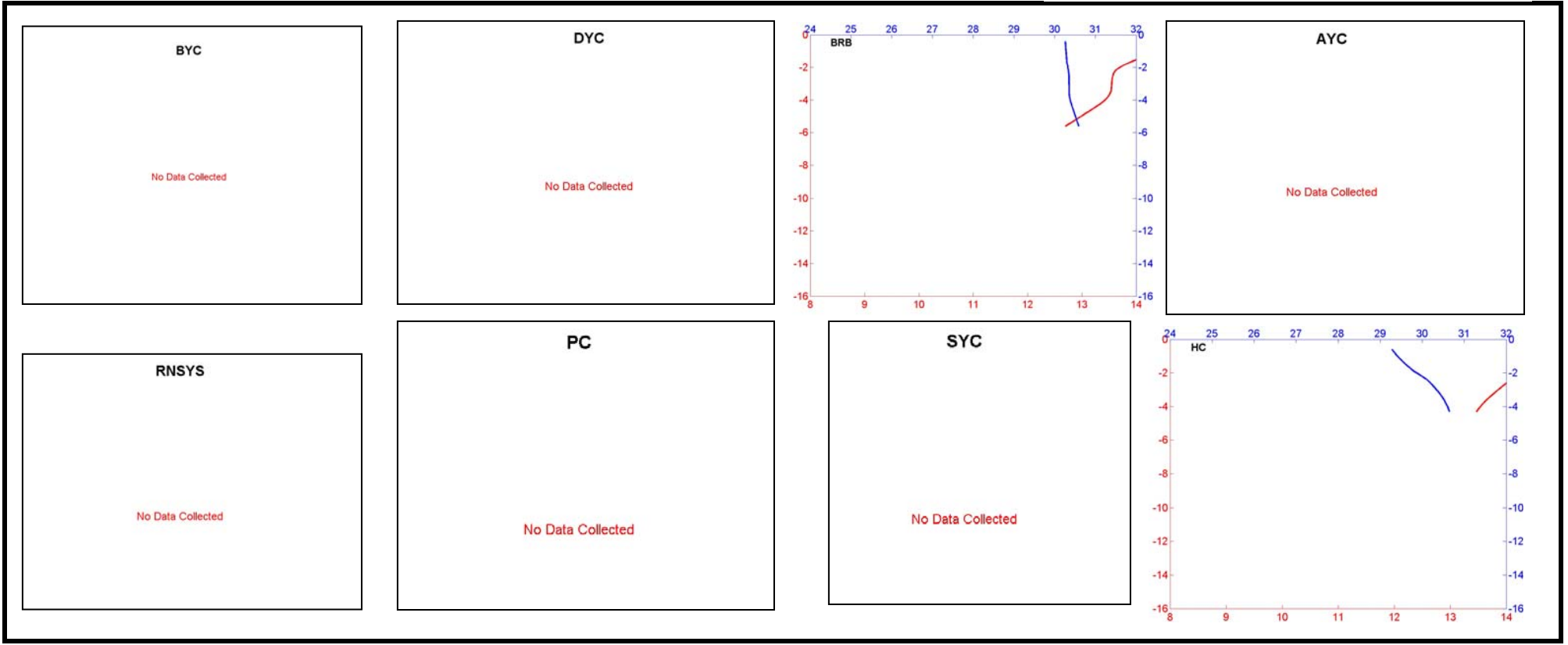
Comments:

Two samples had manganese values above the EQL (20 µg/L) but below the water quality criterion (100 µg/L). These samples were at station D2 -10m (20 µg/L) and F2 -10m (24 µg/L).

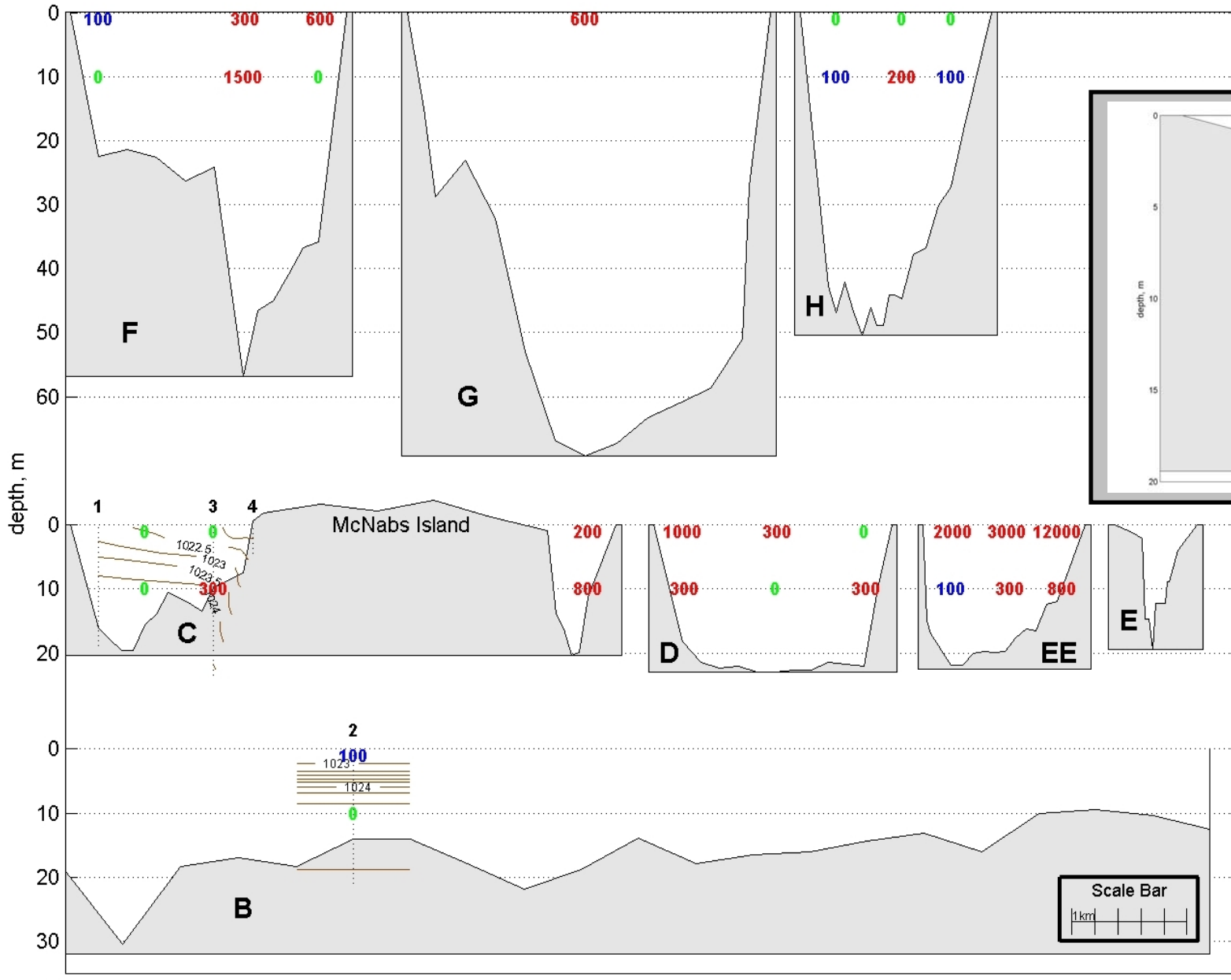




Yacht Clubs



Salinity in PSU Temperature in °C

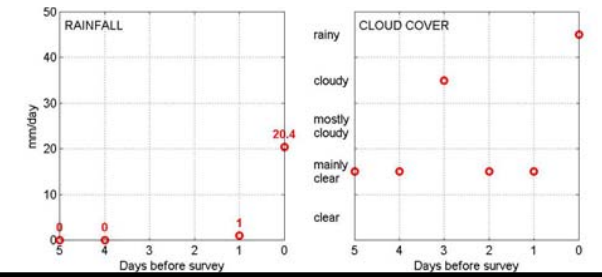
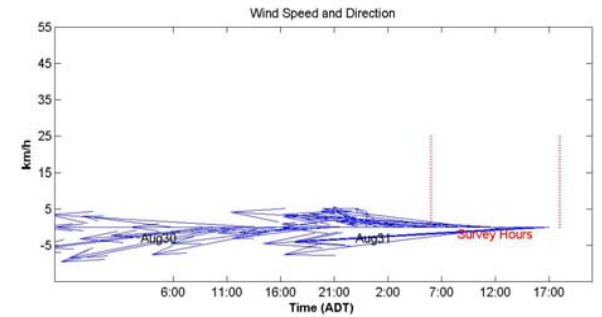
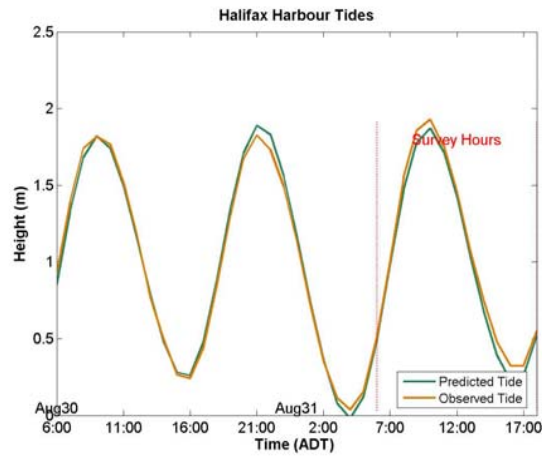
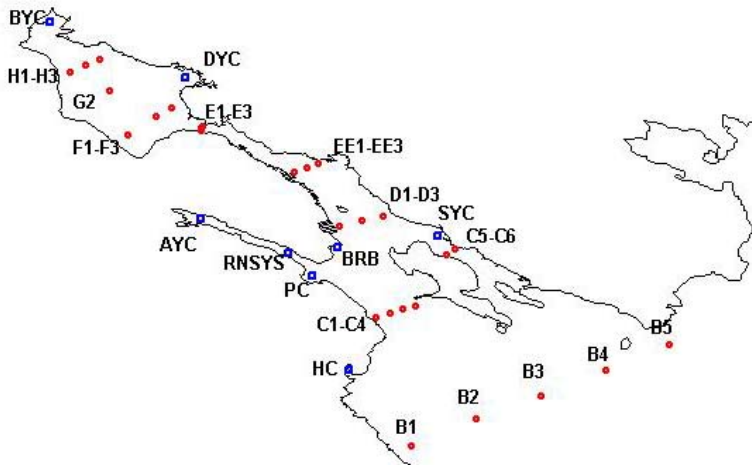


Density in kg/m³

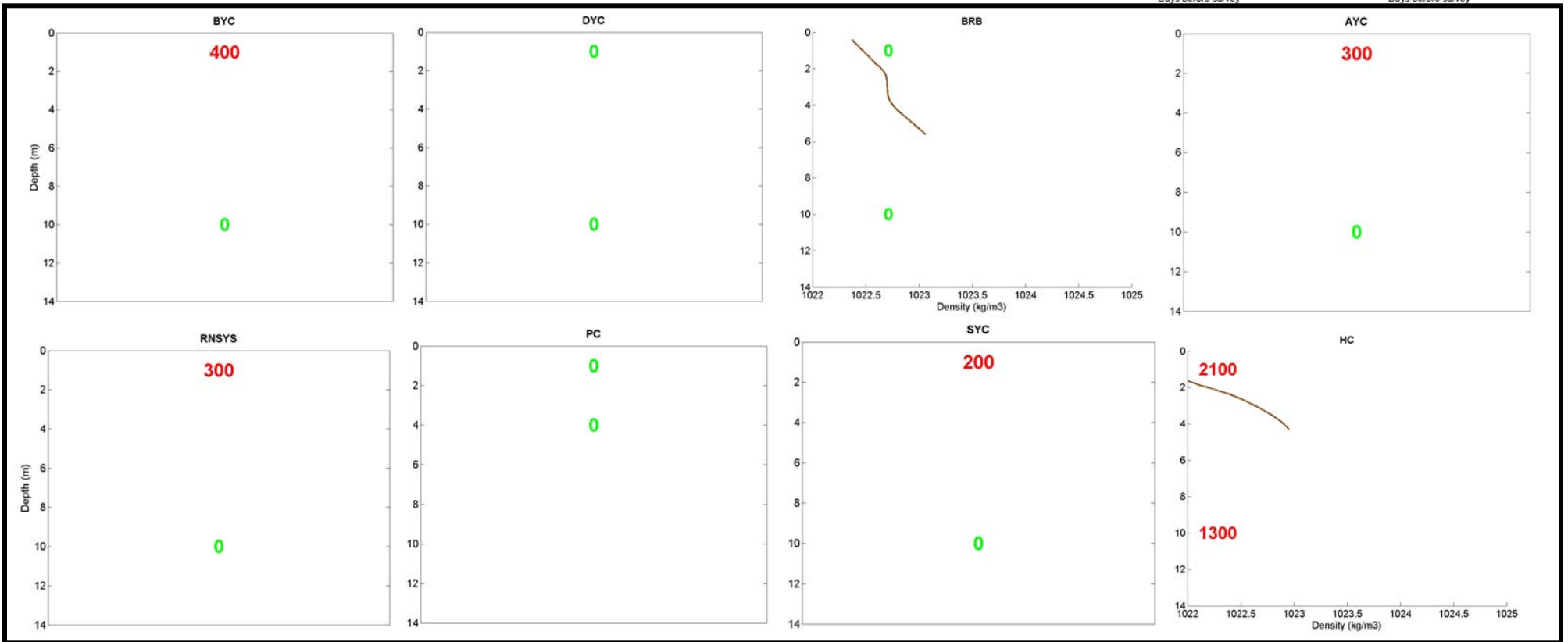
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)



Yacht Clubs

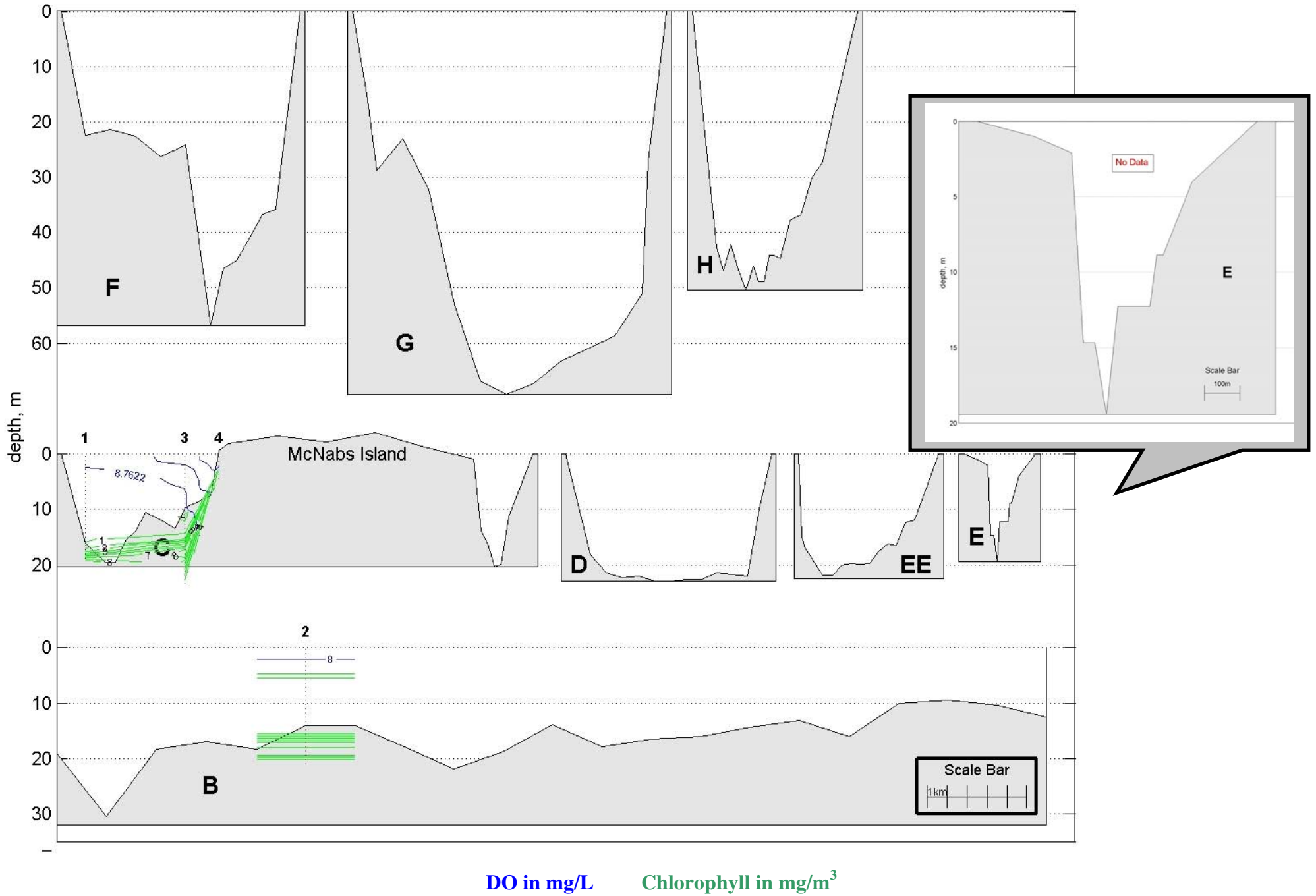


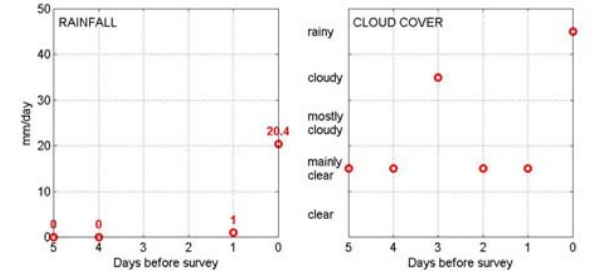
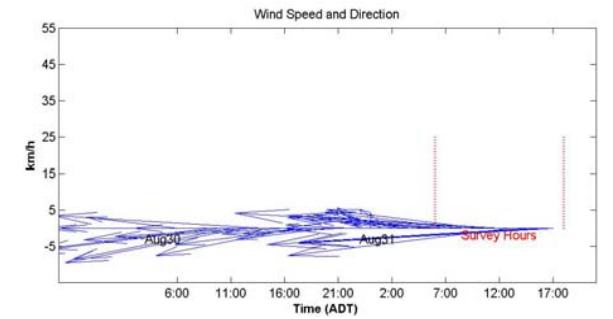
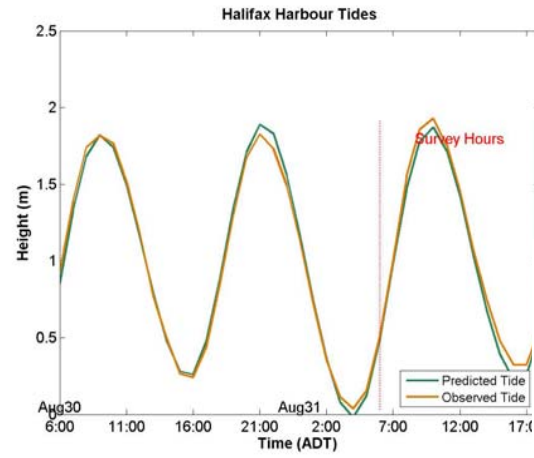
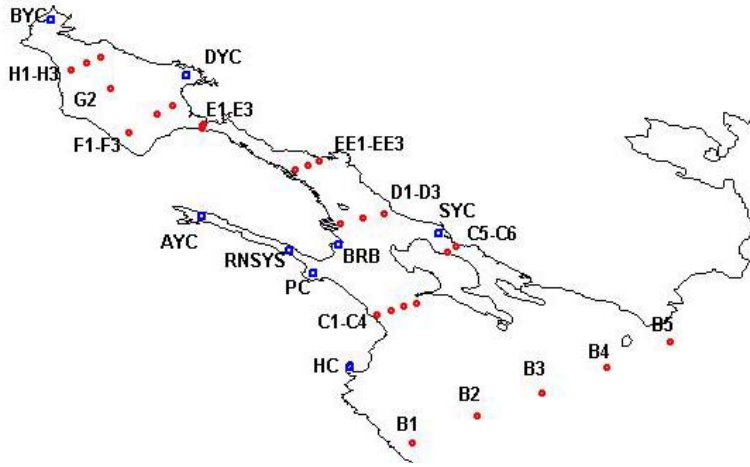
Density in kg/m³

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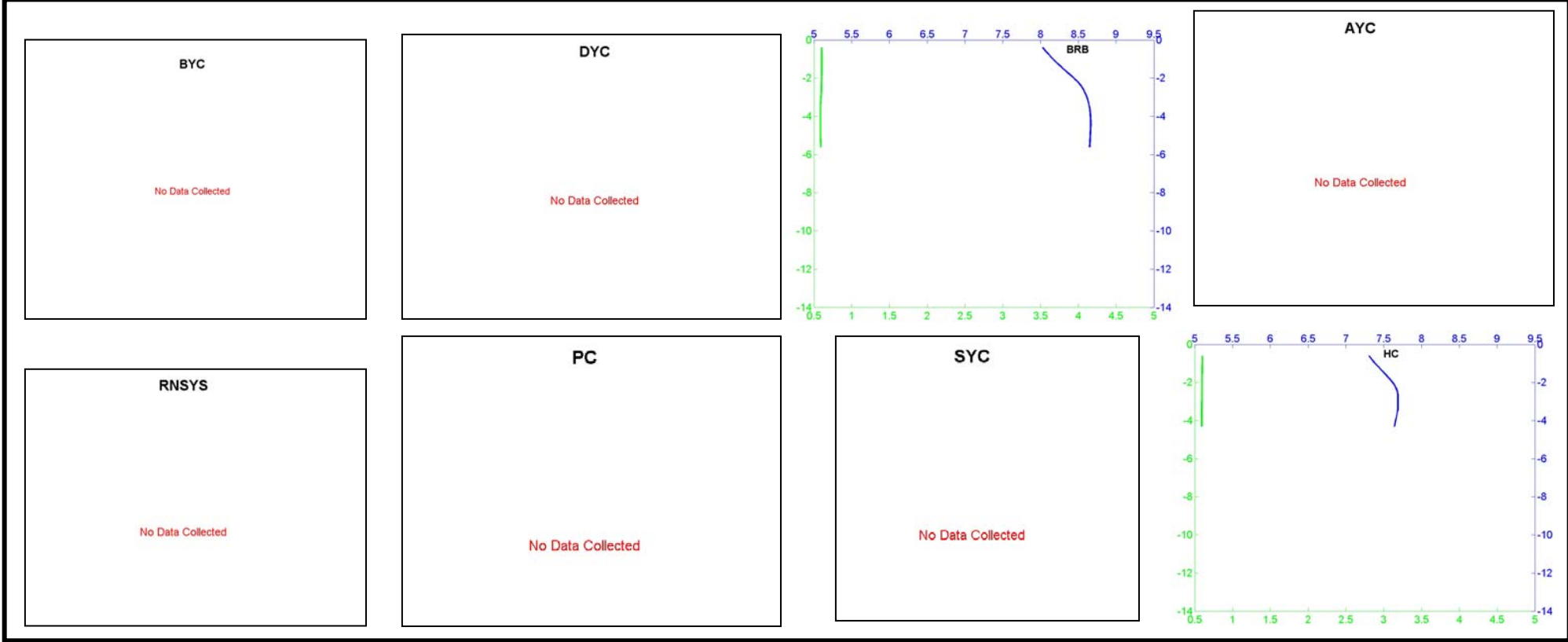
above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)

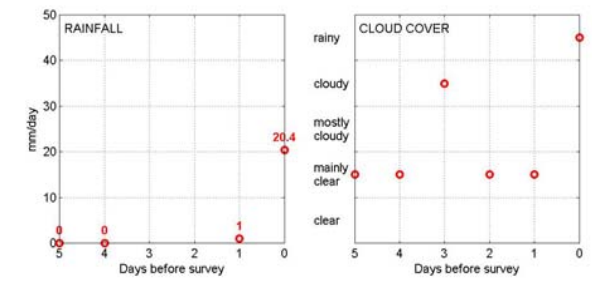
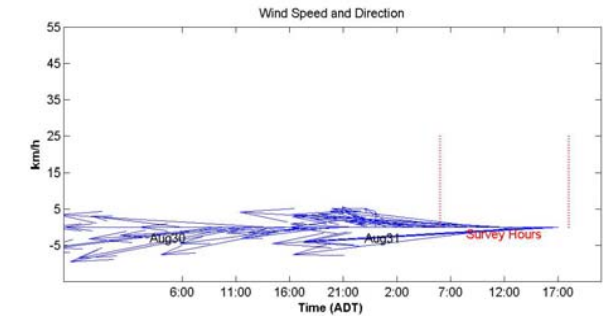
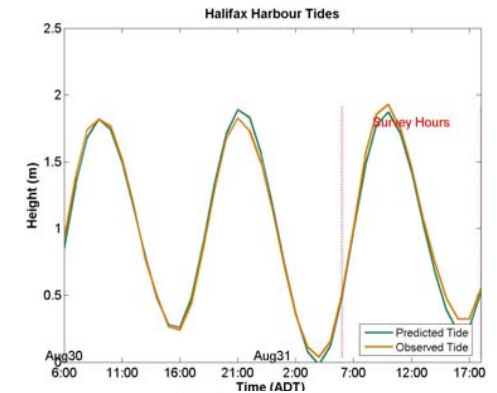
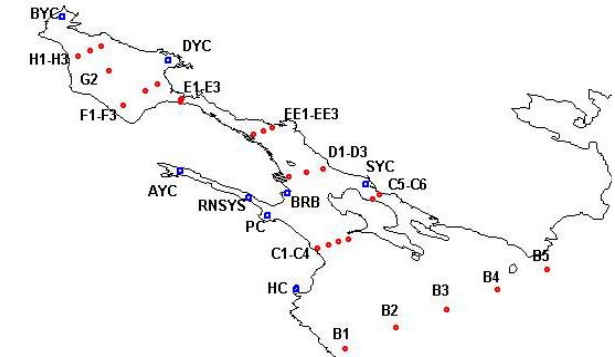
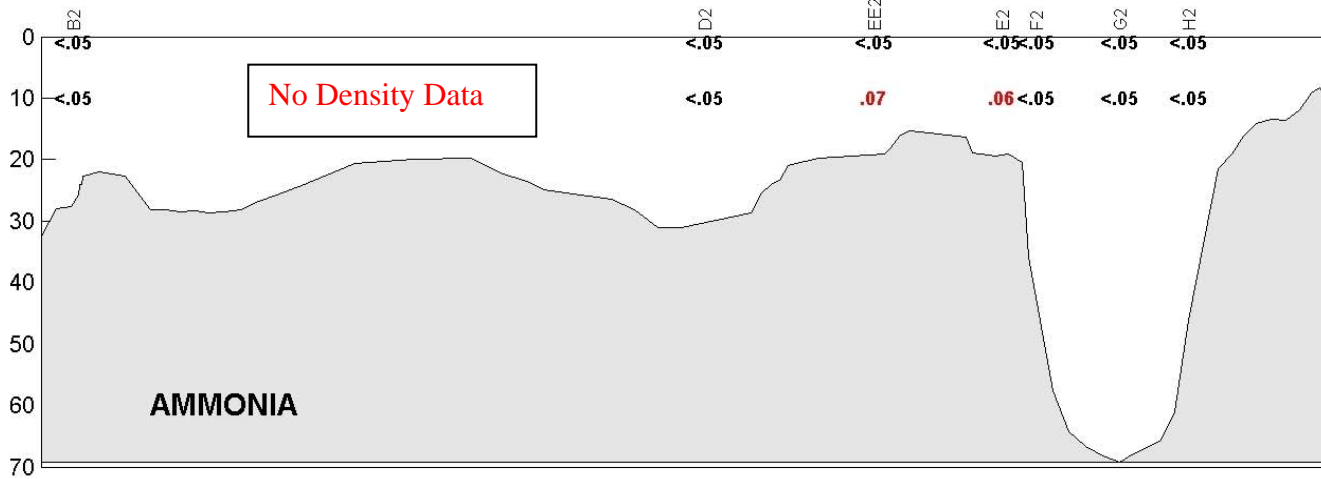
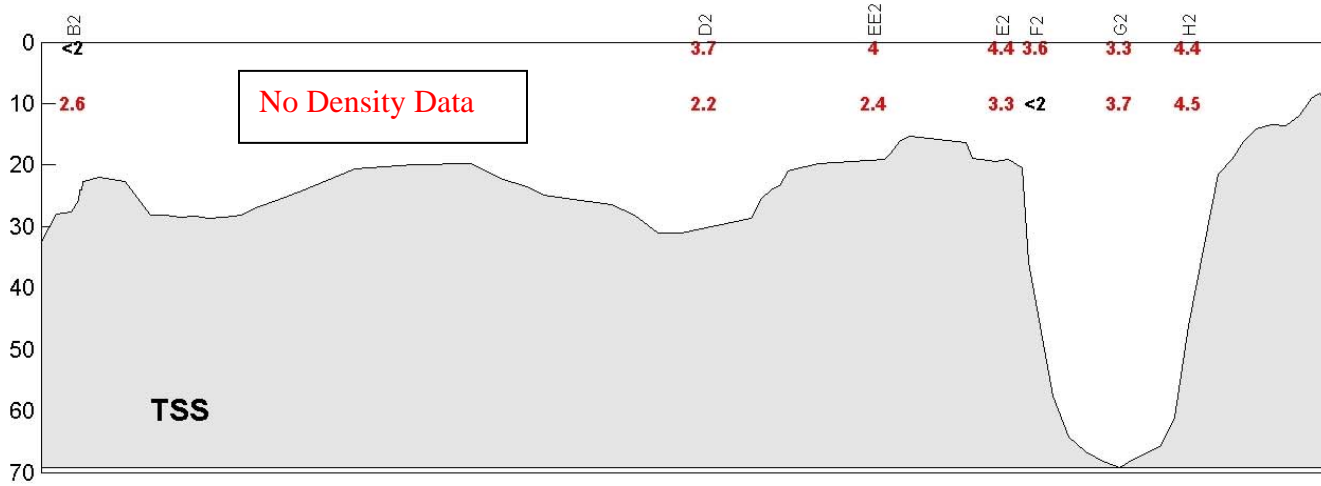




Yacht Clubs



DO in mg/L Chlorophyll in mg/m³



Density in kg/m³

Ammonia in mg/L

TSS in mg/L