

## Halifax Harbour Water Quality Monitoring Project Weekly Summary #21

**Survey Date:** 9 Nov 04  
**Nature of Survey:** Complete Survey  
**Report File (this document):** HHWQMP\_report021\_041109.doc  
**Data File:** HHWQMP\_data021\_041109.xls

### Data Return:

Profile: 100%  
 Bacteria: 100%  
 Chemical: 100%  
**Overall: 100%**

### Sample Notes:

### QA/QC samples:

Chemical Analysis	G2-1m		
	Detectable Parameter	units	reference sample QA/QC
Ammonia (as N)	mg/L	0.08	0.08
Total Suspended Solids	mg/L	4.2	2.9
Boron	ug/L	3100	3400
Lithium	ug/L	120	150
Lead	ug/L	<5.0	5.1
Strontium	ug/L	6000	5900
Titanium	ug/L	60	63
Uranium	ug/L	3.0	3.3

### Fecal Coliform (CFU/100ml)

Site	D1-10m	EE1-1m	H1-1m	F3-10m	SYC-10m	G2-1m
Reference	340	240	3	37	930	24
QA/QC	330	150	1	6	260	2

### Regulated parameters with all samples below detection (<EQL)

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 <sub>5</sub>	5
Copper	20				
Manganese	20				

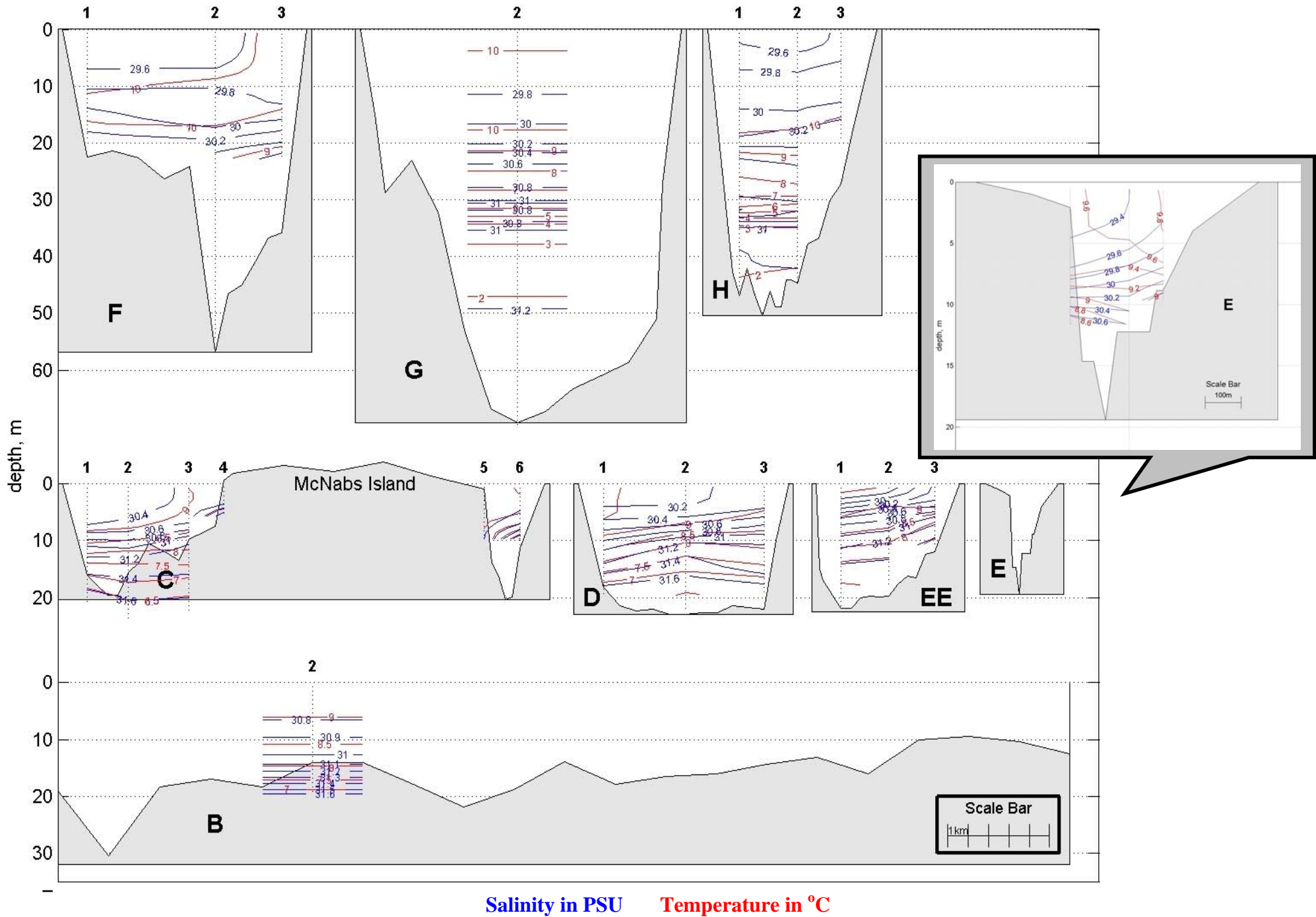
### Detectable non regulated metals

Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Boron	500	15	3440	3000-4100
Lithium	20	15	142	120-170
Strontium	50	15	6150	5800-6600
Titanium	20	15	63	56-74
Uranium	1	15	3.3	2.9-3.9

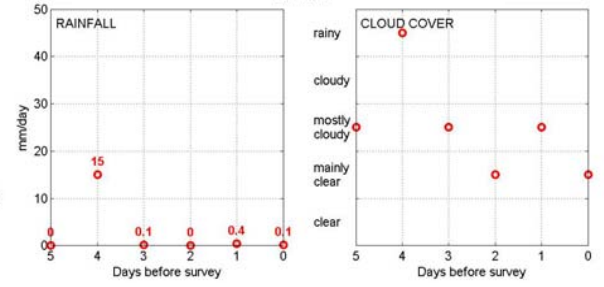
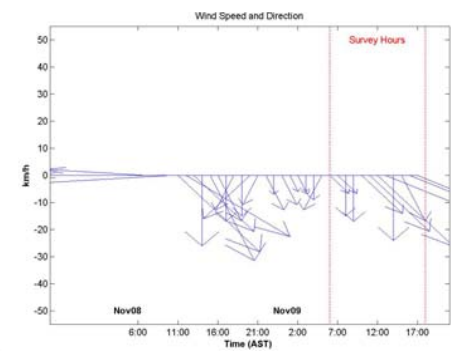
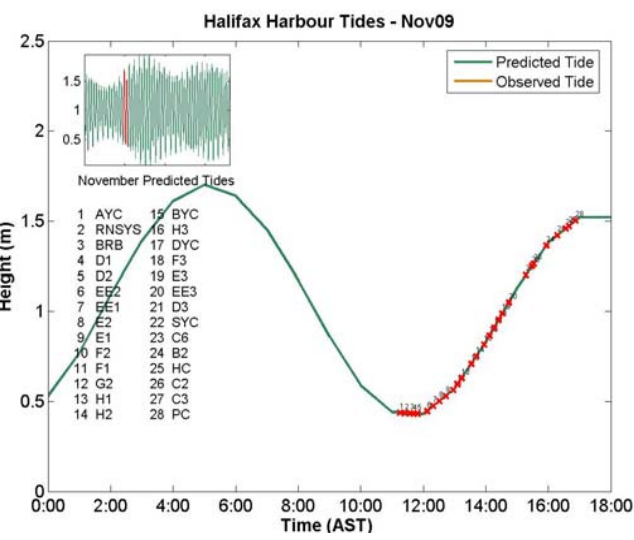
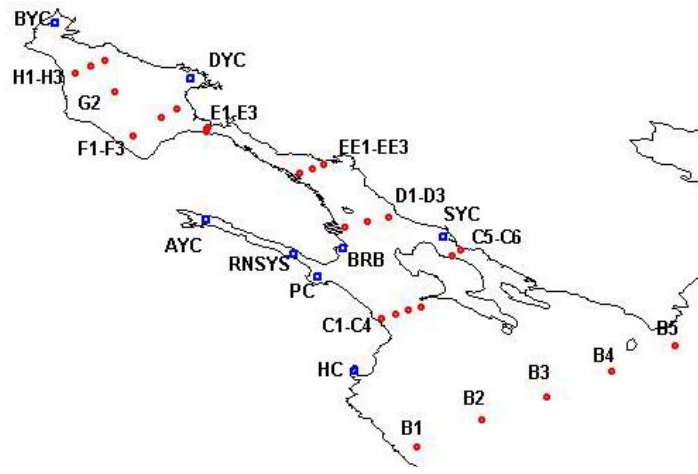
### Comments:

Dissolved Oxygen: The dissolved oxygen continues to drop (2.0 mg/L) in the bottom waters of Bedford Basin. This bottom water represents the only criteria violation in the harbour.

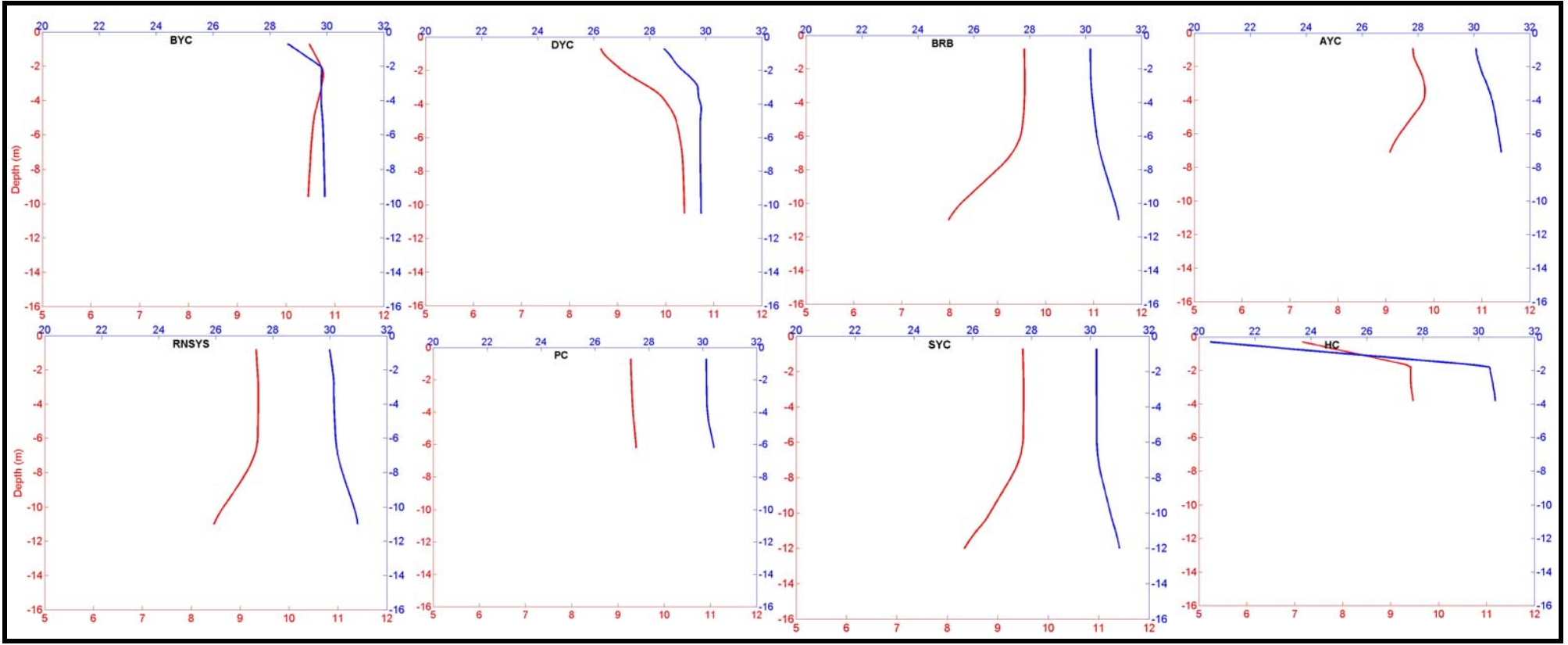
Lead: Two samples (F2-1m, 8.0 µg/L and the QA/QC sample at G2-1m, 5.1 µg/L) had detectable values of lead. The F2-1m value exceeds the guideline of 5.6 mg/l. The primary sample at G2-1m sample had undetectable lead (EQL = 5.0 µg/L).



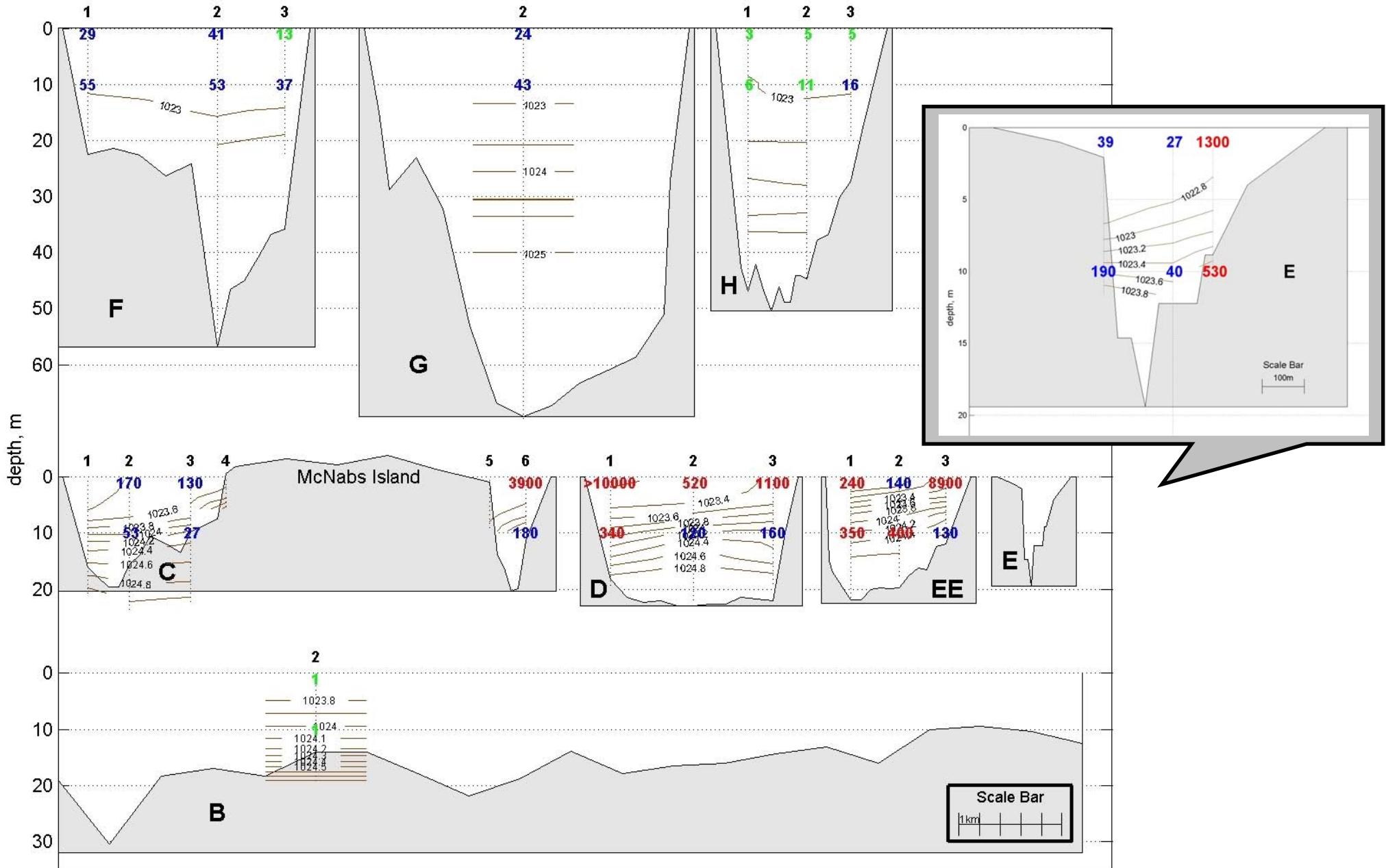
Salinity in PSU    Temperature in °C



## Yacht Clubs



Salinity in PSU      Temperature in °C

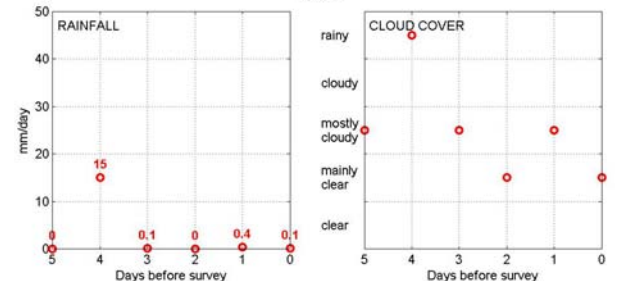
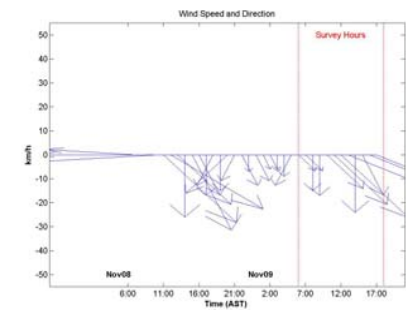
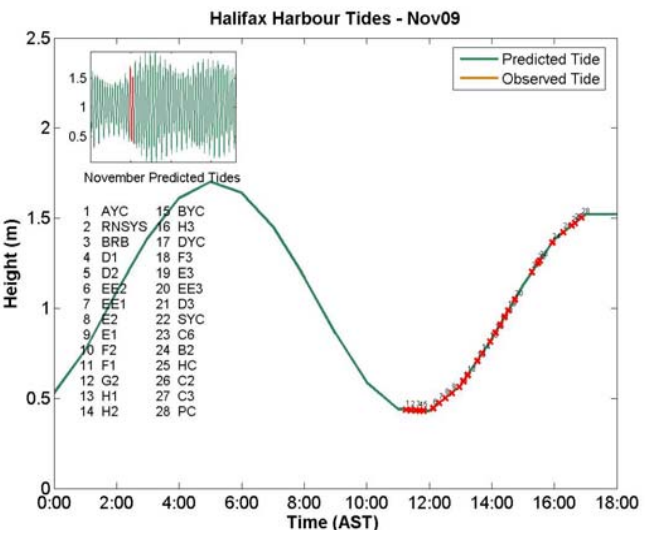
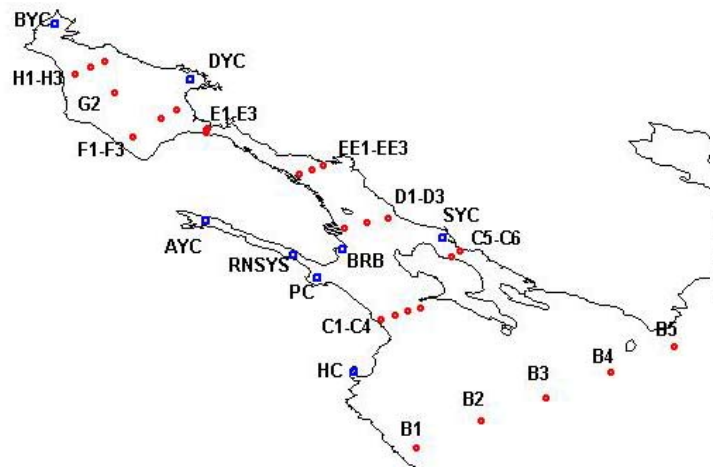


Density in kg/m<sup>3</sup>

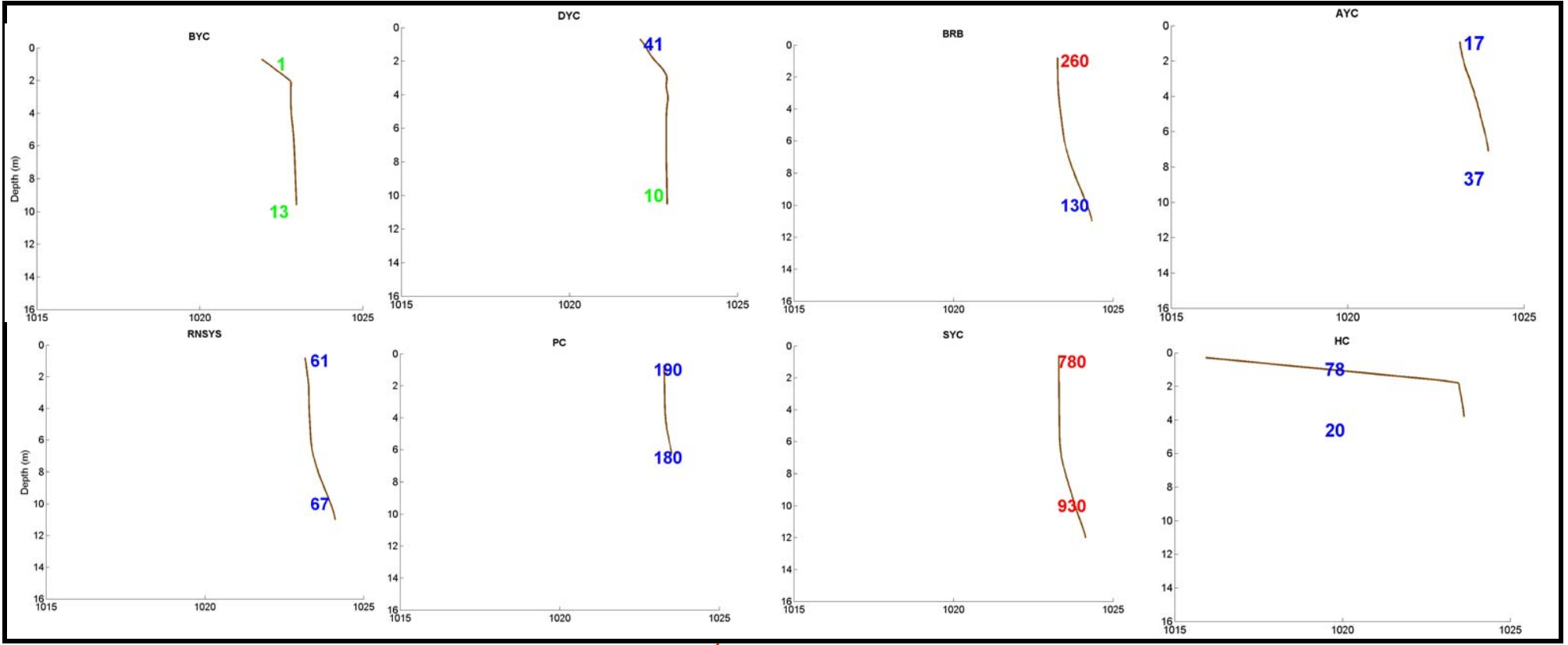
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)

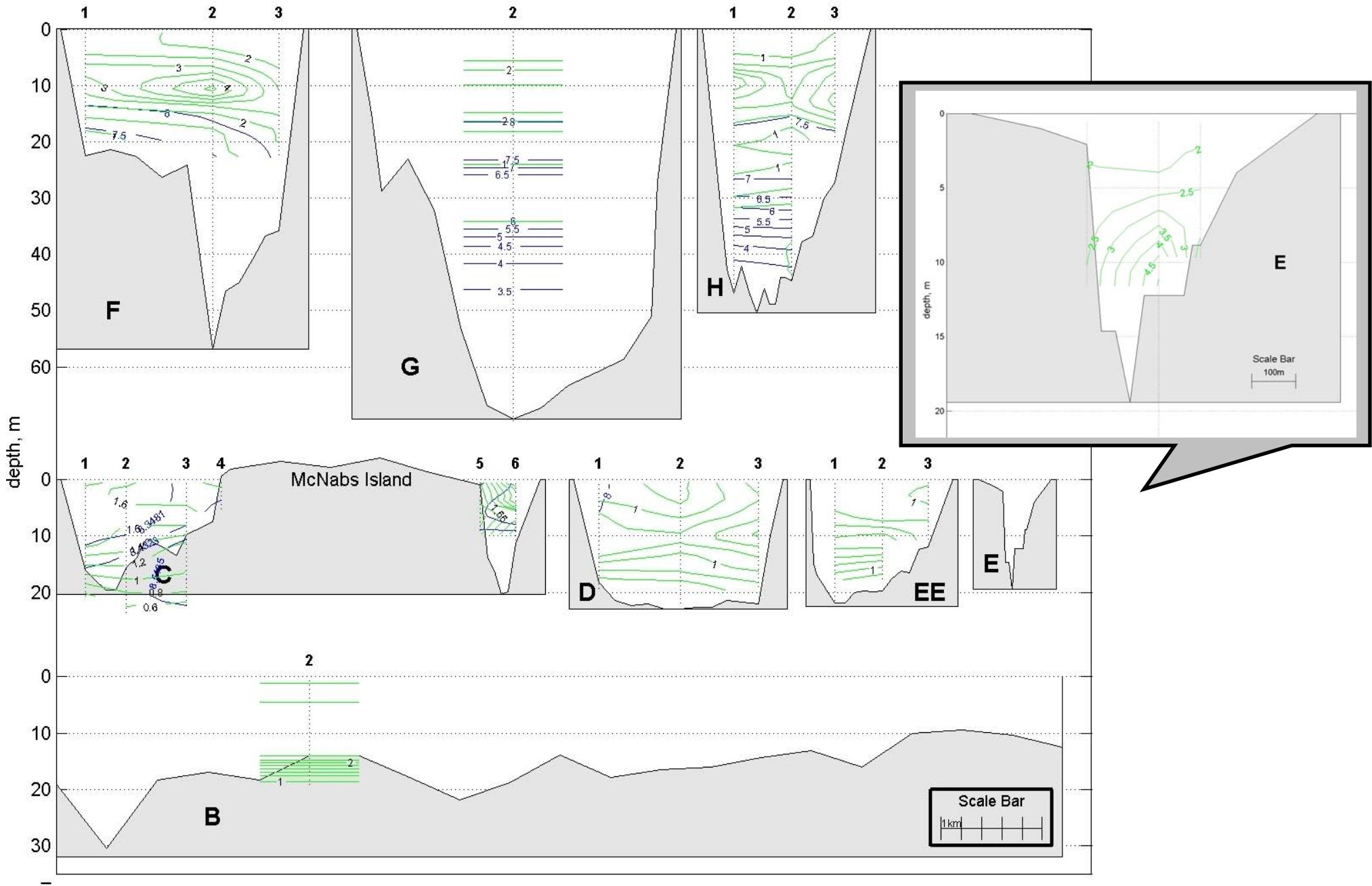


## Yacht Clubs



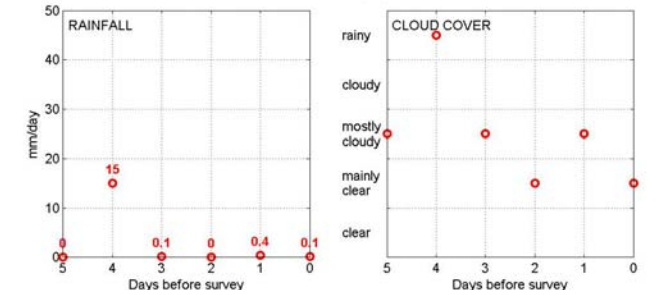
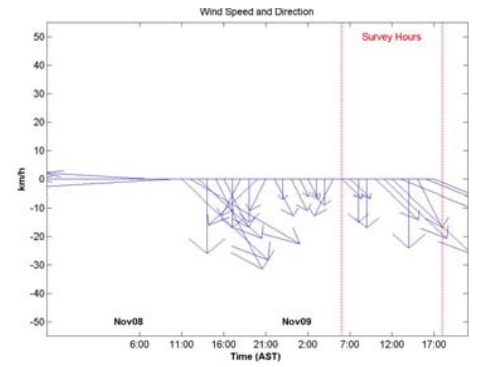
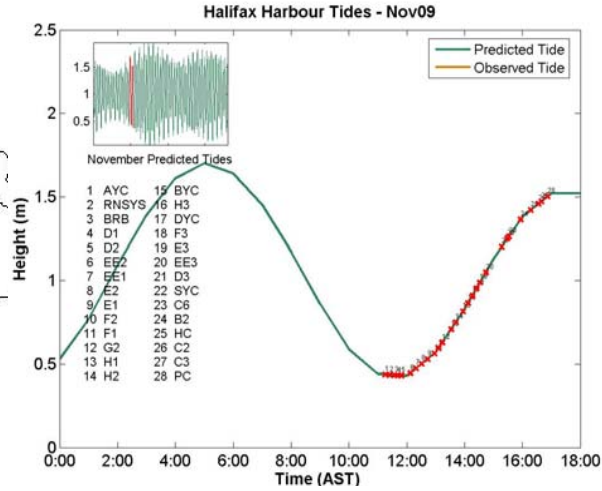
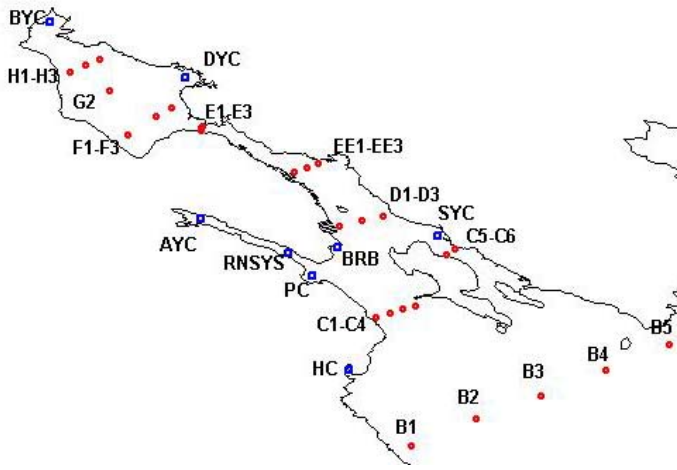
Density in kg/m<sup>3</sup>      Fecal coliform: below limits  
 above shellfish limit (14 cfu/100mL)  
 above swimming limit (200 cfu/100mL)



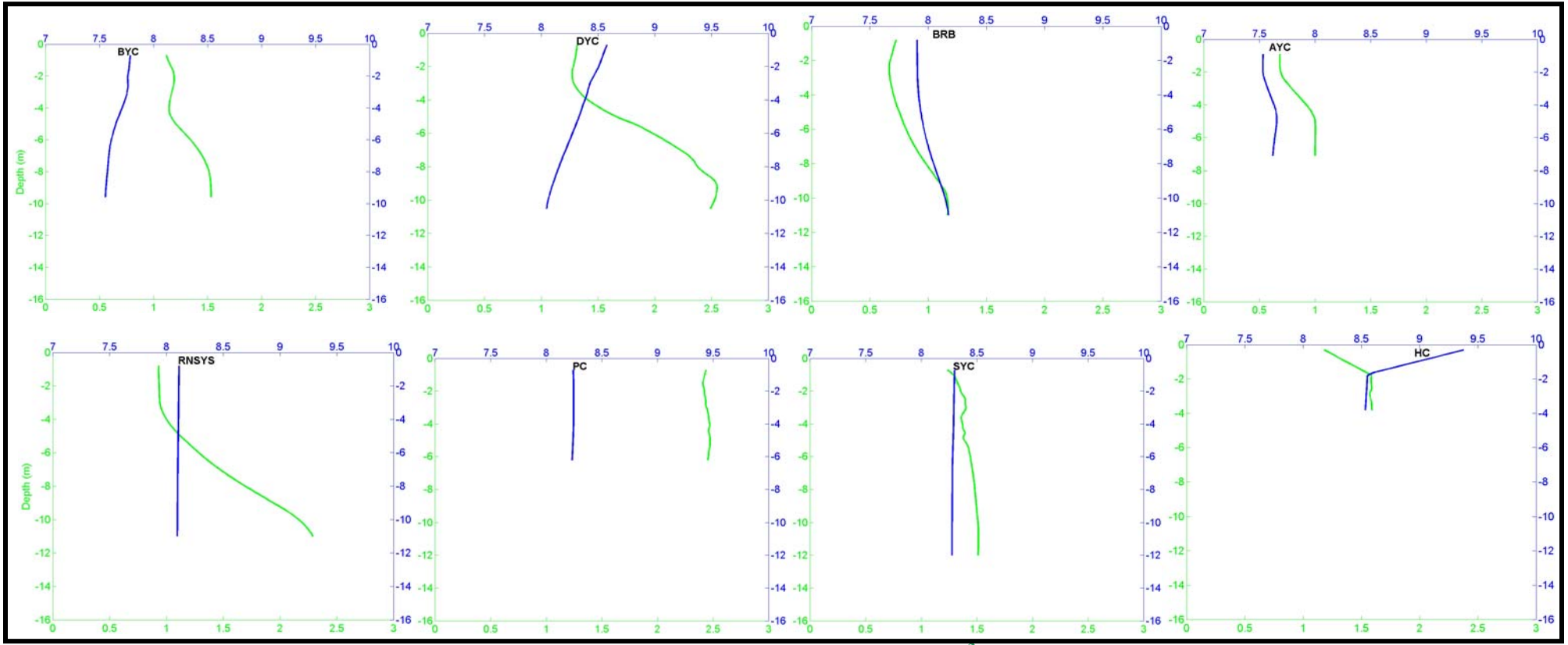


DO in mg/L

Chlorophyll in mg/m<sup>3</sup>

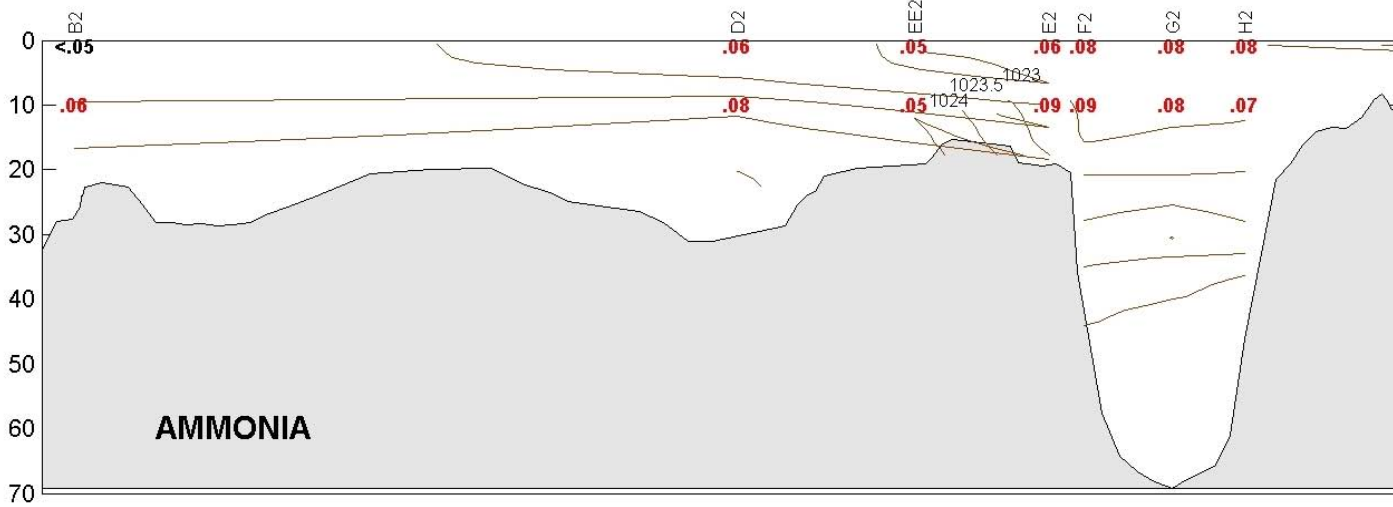
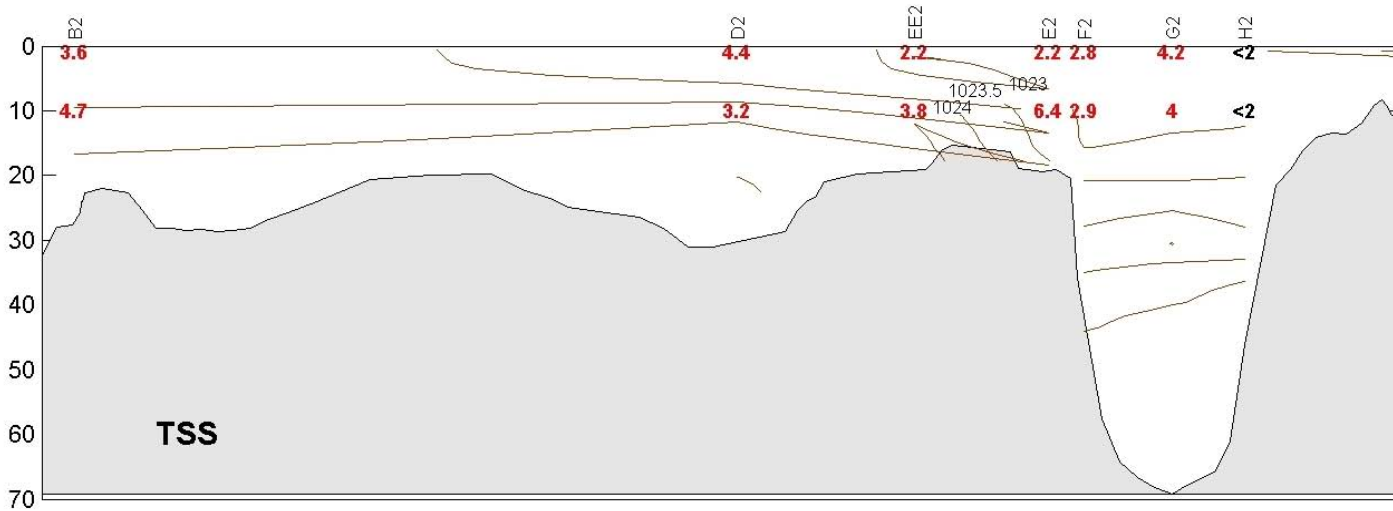


### Yacht Clubs



DO in mg/L      Chlorophyll in mg/m<sup>3</sup>

CHEMISTRY



Density in kg/m<sup>3</sup>

Ammonia in mg/L

TSS in mg/L

