

Halifax Harbour Water Quality Monitoring Project Weekly Summary #9

Survey Date: 18 August 04
Nature of Survey: Complete Survey
Report File (this document):

HHWQMP_report009_040818.doc
Data File: HHWQMP_data009_040818.xls

Data Return:

Profile: 103%
 Bacteria: 100%
 Chemical: 100%
Overall: 101%

Data Notes:

- Data set includes profile data at "optional site" B1
- QA/QC sample reference site missing – attempting to resolve.

QA/QC samples:

Parameter	units	reference sample	H2- 10m		
			QA/QC	reference sample	Dup
Fecal Coliform	CFU/ml		n/a	0	n/a
Ammonia (as N)	mg/L		0.06	0.09	0.08
Total Suspended Solids	mg/L		2.8	1.4	n/a
Boron	ug/L		4200	4600	4800
Lithium	ug/L		170	200	200
Strontium	ug/L		6500	6900	6800
Titanium	ug/L		88	110	98
Uranium	ug/L		2.7	2.9	2.8

Fecal Coliform (CFU/ml)

Site	C2-10m	AYC-1m	F1-10m	E3-1m	D3-1m
Reference	2	1	1	7	0
QA/QC	1	6	0	13	0

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				

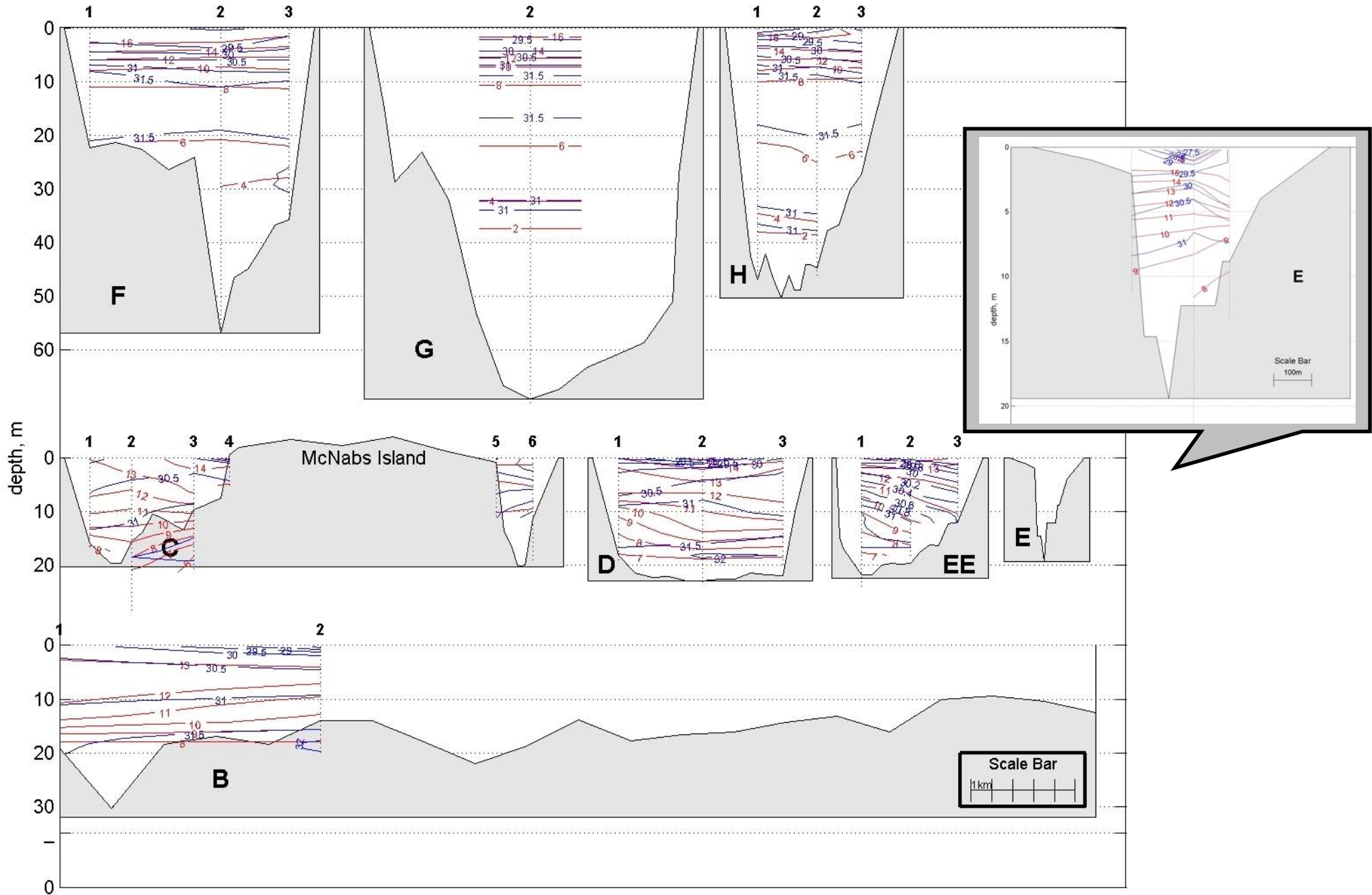
Detectible non regulated metals

Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Boron	500	14	4400	4200-4800
Lithium	20	14	186	170-200
Strontium	50	14	6630	6400-7000
Titanium	20	14	91	81-110
Uranium	1	14	3	2.6-3.4

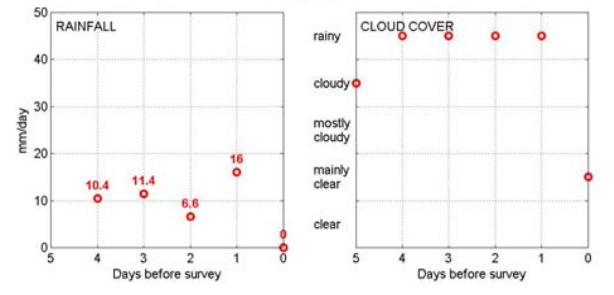
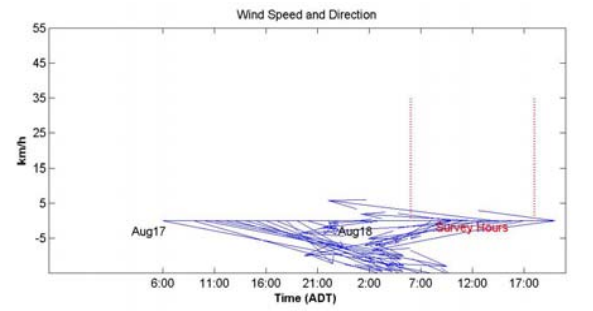
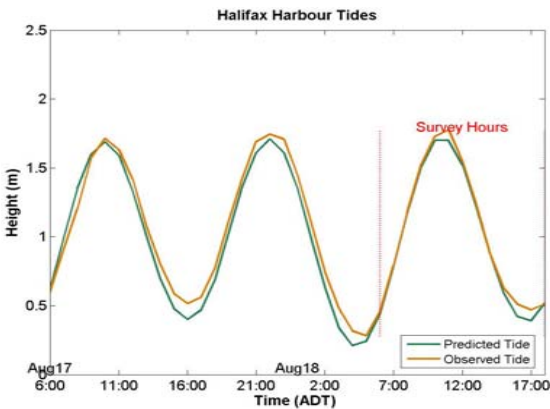
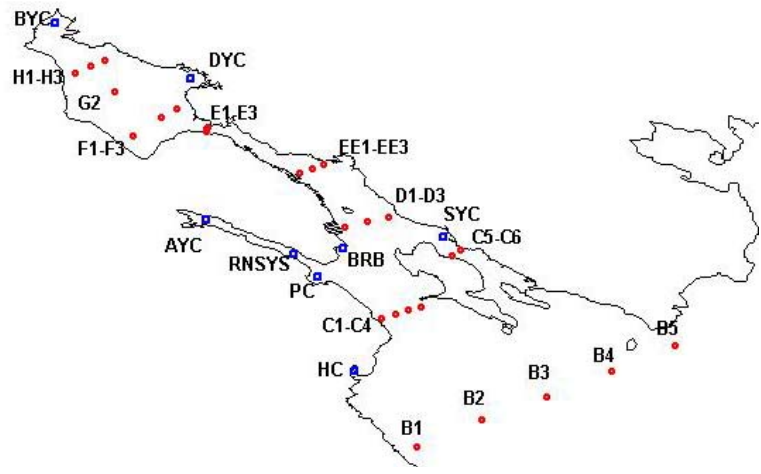
Comments:

Manganese concentration at site EE2-10m (21 µg/L) and G2-10m (21 µg/L) are above EQL (20 µg/L), but below guidelines (100 µg/L).

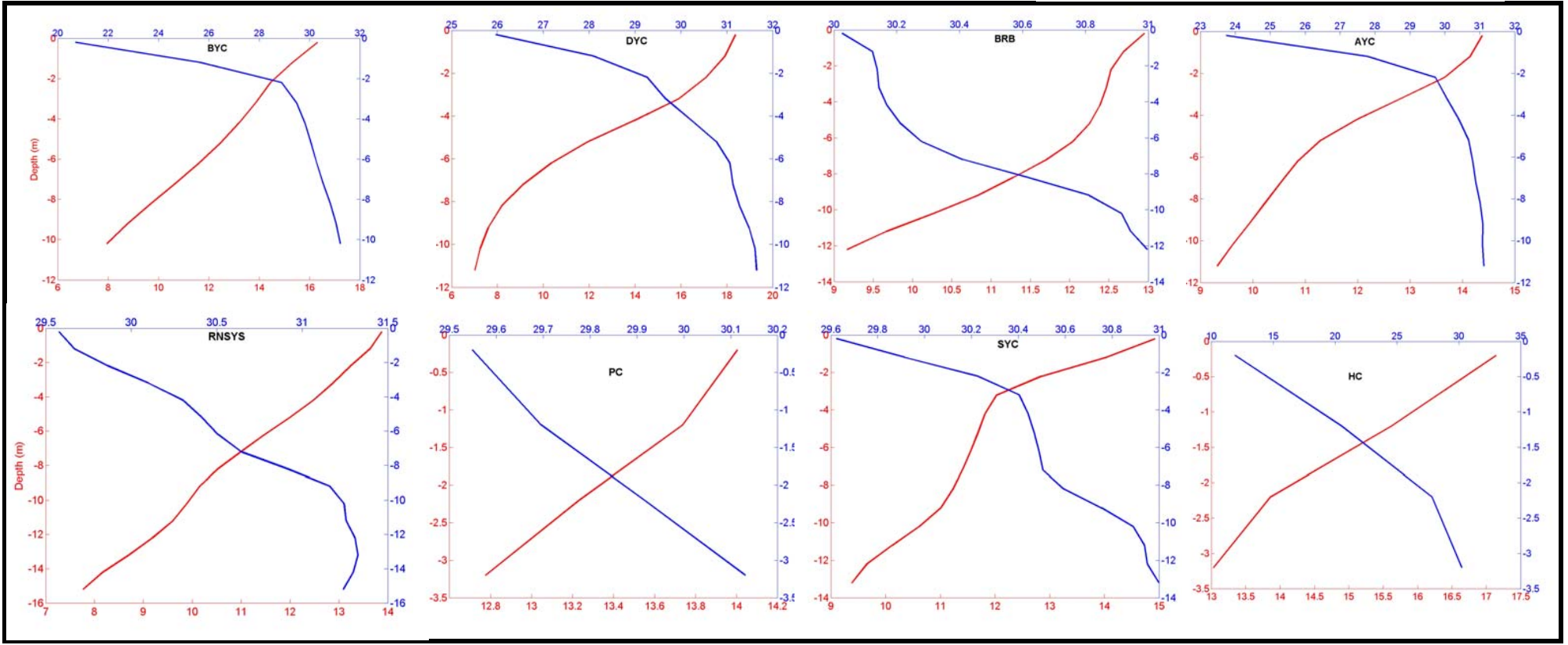
Dissolved Oxygen: The class SB criterion (7 mg/l) is violated in the deep water (>35 m) of Bedford Basin. In addition the Class SA criterion (8 mg/l) is violated in the surface water (top 2-4 m) at sites B1 and B2, with minimum concentrations of approximately 6.5 mg/l



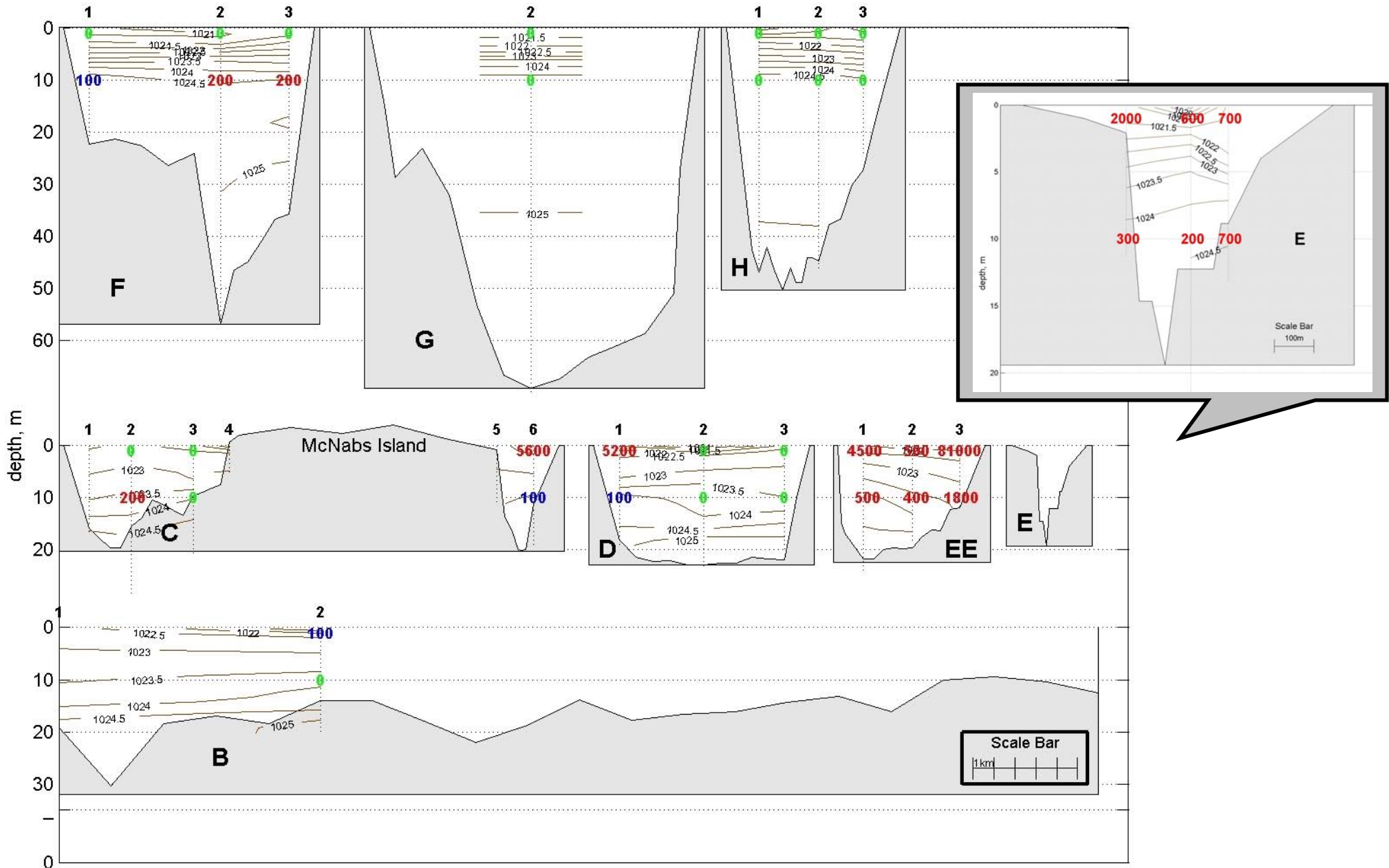
Salinity in PSU Temperature in °C



Yacht Clubs



Salinity in PSU Temperature in °C

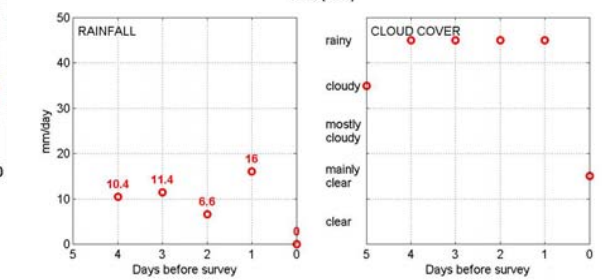
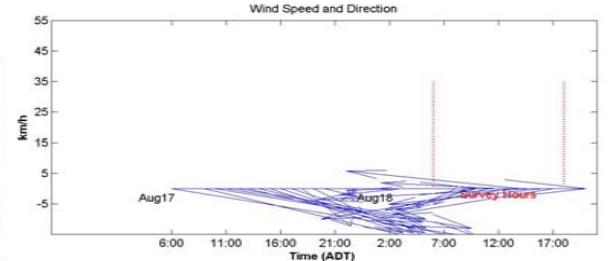
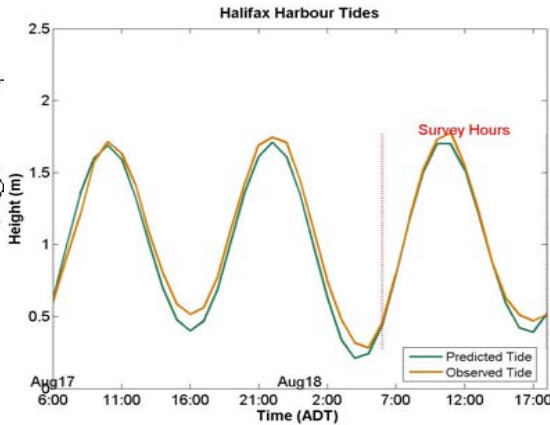
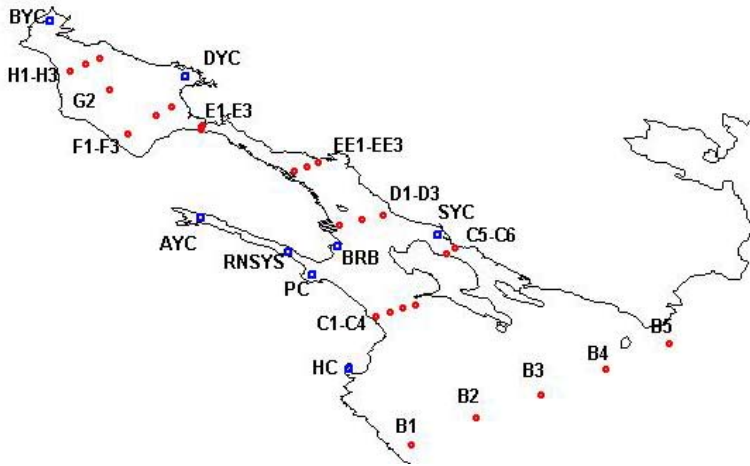


Density in kg/m³

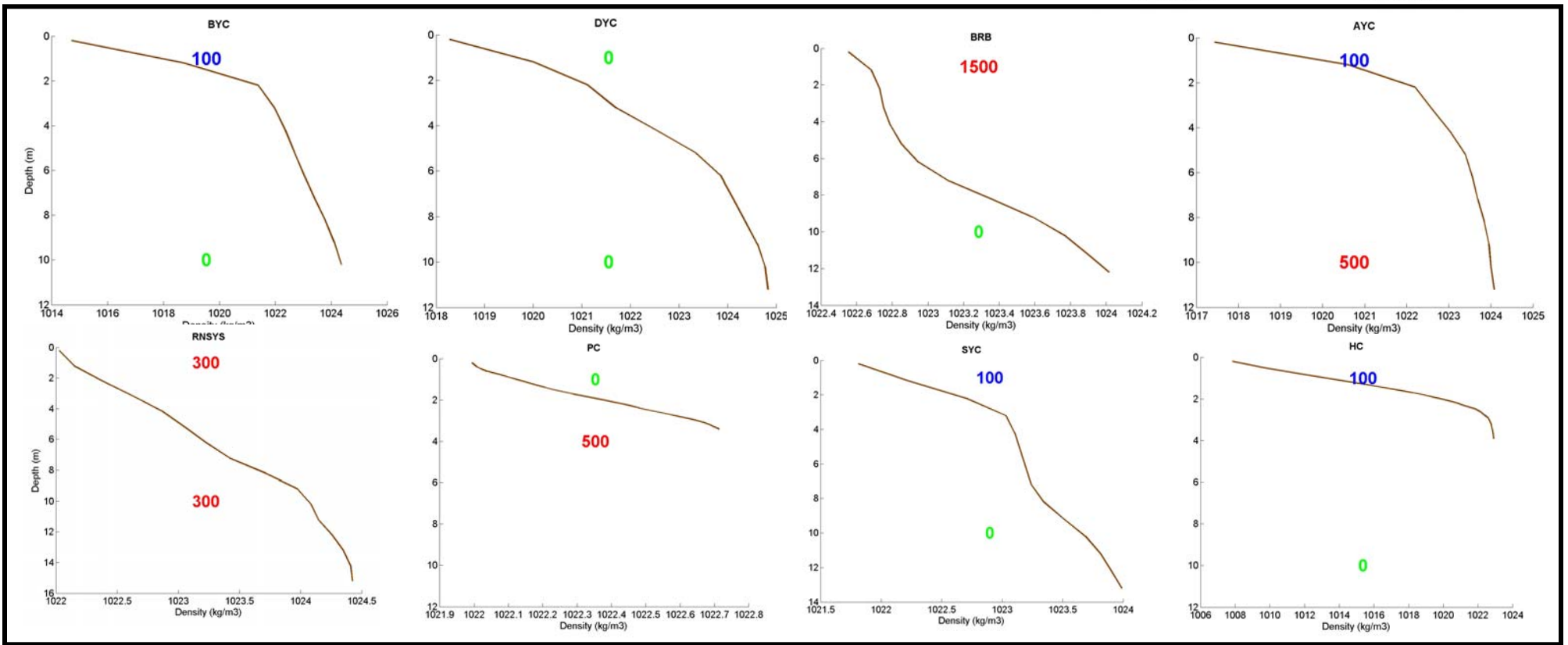
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

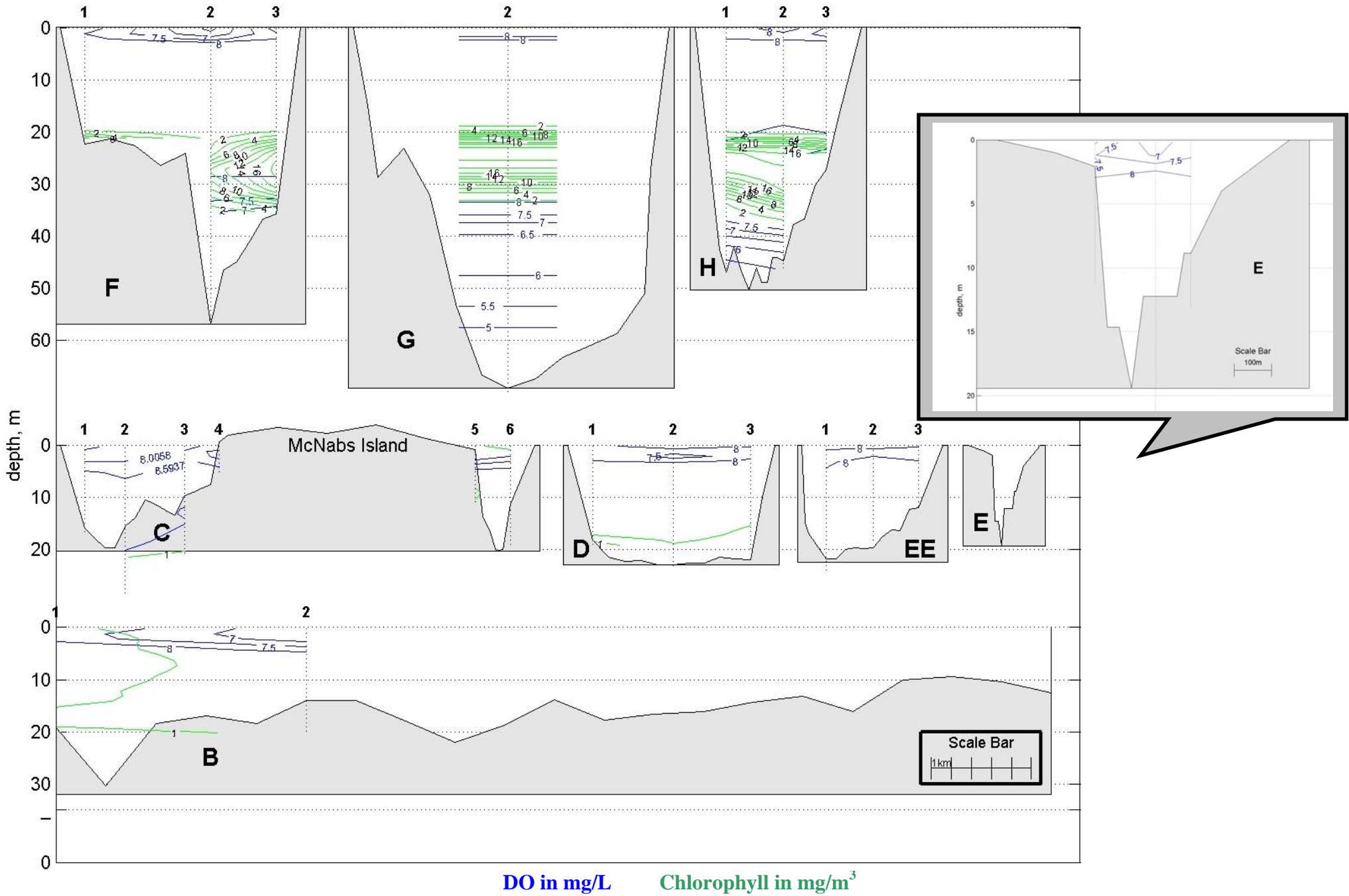
above swimming limit (200 cfu/100mL)

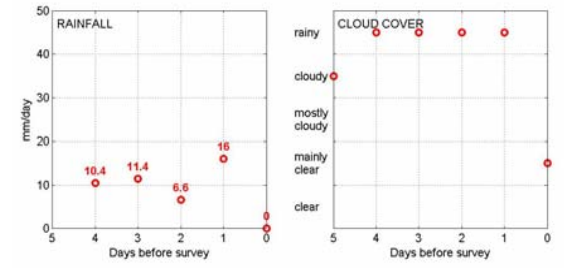
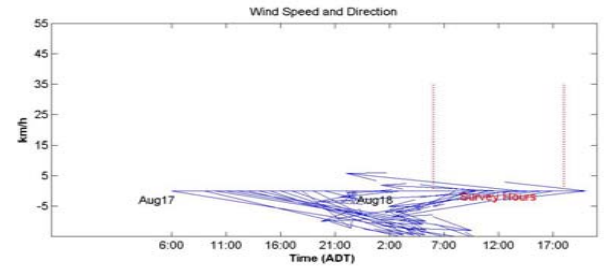
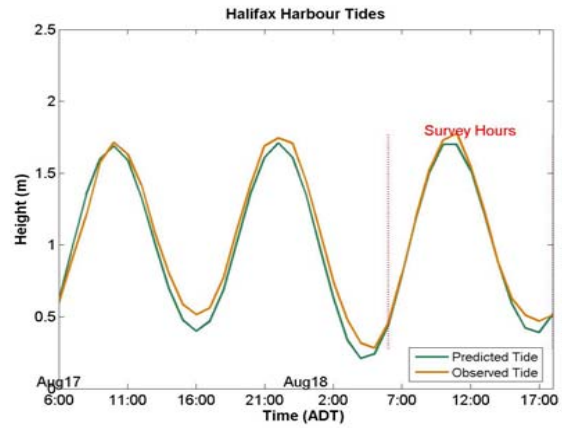
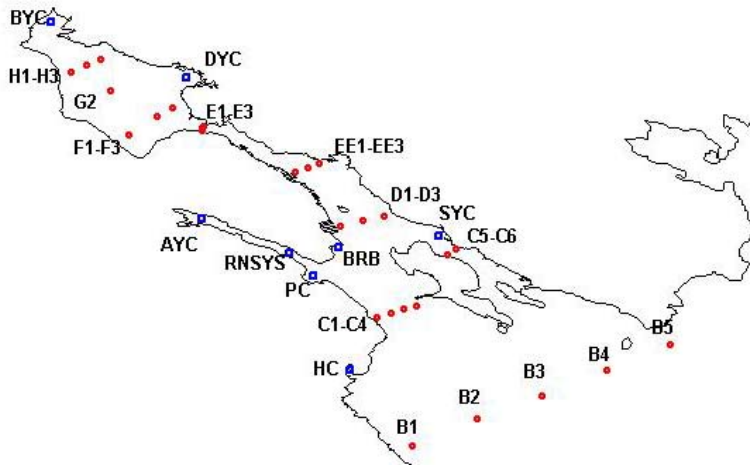


Yacht Clubs

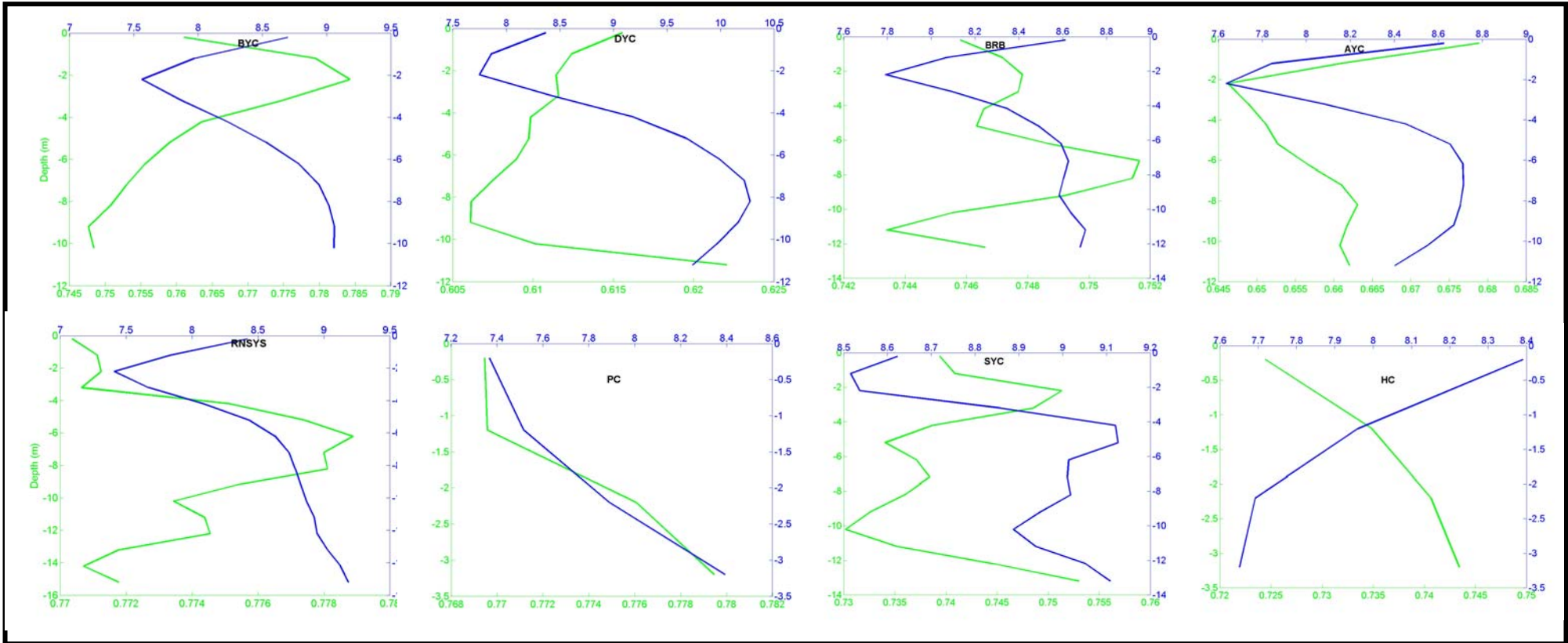


Density in kg/m³ **Fecal coliform: below limits**
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above swimming limit (200 cfu/100mL)



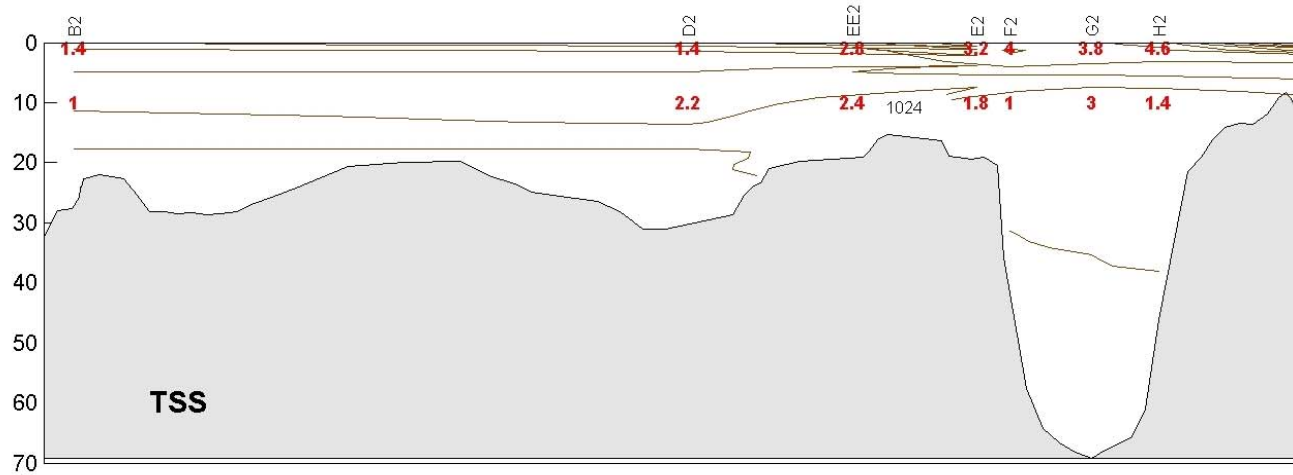


Yacht Clubs



DO in mg/L

Chlorophyll in mg/m³



Density in kg/m³

Ammonia in mg/L

TSS in mg/L

