

Halifax Harbour Water Quality Monitoring Project Weekly Summary #7

Survey Date: 03 August 04
Nature of Survey: Complete Survey
Report File (this document):

HHWQMP_report007_040803.doc
Data File: HHWQMP_data007_040803.xls

Data Return:

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

Data Notes:

Duplicate profile at site F2 – labelled F2B in data file

QA/QC samples:

Parameter	units	D2 - 1m		F2- 10m	
		reference sample	QA/QC	reference sample	Dup
Fecal Coliform	CFU/ml	0	2	3	noval
Ammonia (as N)	mg/L	<0.05	<0.05	< 0.05	< 0.05
Total Suspended Solids	mg/L	<1	2.4	< 2	noval
Boron	ug/L	3600	3300	3600	3500
Lithium	ug/L	160	150	160	150
Strontium	ug/L	6300	6100	6200	6300
Titanium	ug/L	71	71	76	75
Uranium	ug/L	3.0	2.9	3.5	3.2

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

Parameter	EQL(µg/L)	Parameter	EQL(µg/L)	Parameter	EQL(mg/L)
Cadmium	3			Oil and Grease	5
Chromium	20			CBOD ₅	5
Lead	5				
Nickel	20				

Detectible non regulated metals

Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Boron	500	14	3600	3300-3900
Lithium	20	14	160	150-180
Strontium	50	14	6300	5900-6600
Titanium	20	14	75	68-80
Uranium	1	14	3.1	2.7-3.5

Comments:

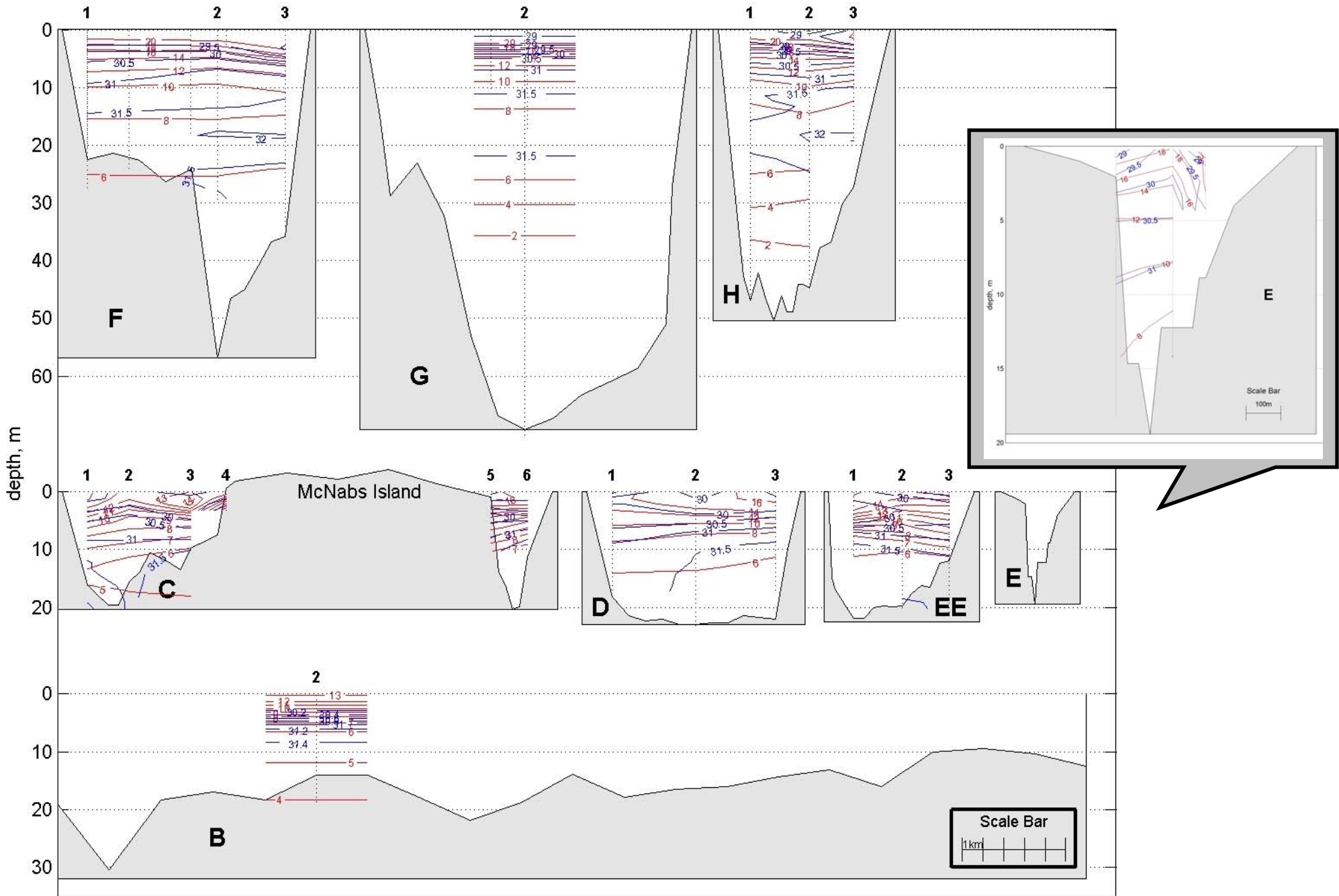
Missing longitudinal section plots below:

Copper concentration at site B2-10m (24 µg/L) exceeds guideline (2.9 µg/L). All other values below EQL (20 µg/L).

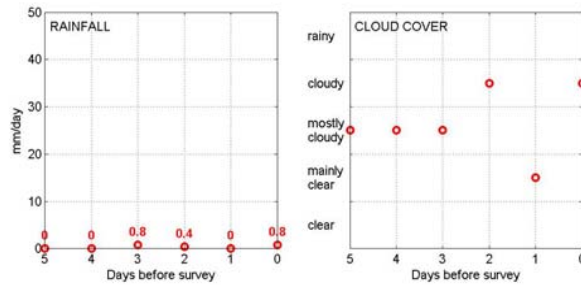
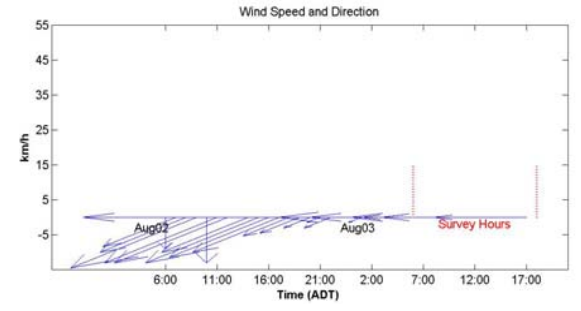
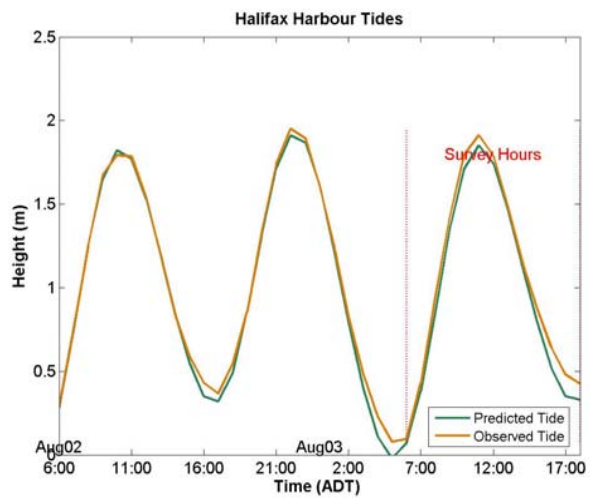
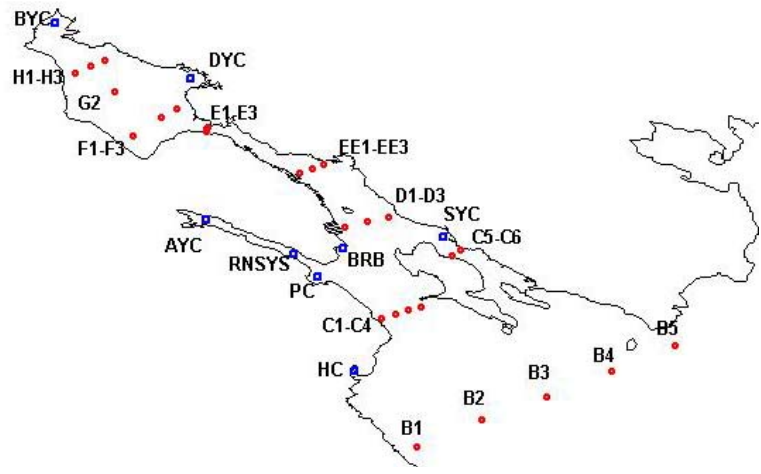
Zinc concentration at site B2-1m (1100 µg/L) exceeds guideline (86 µg/L). All other values below EQL (50 µg/L)

Manganese concentration at site D2-1m (28 µg/L) and F2-1m (31 µg/L) are above EQL (20 µg/L), but below guidelines (100 µg/L).

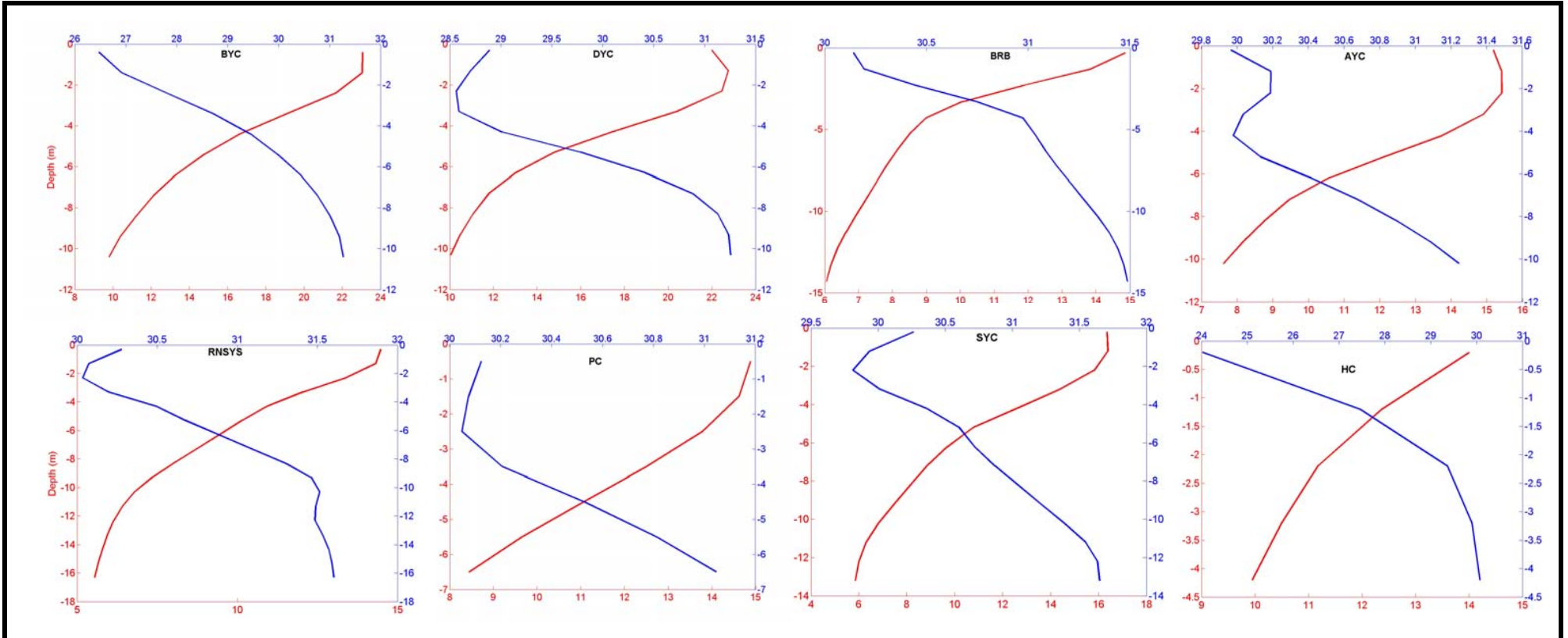
Dissolved Oxygen: A nearsurface layer with DO < 7 mg/l approximately 2-3 m thick appears to extend throughout Bedford Basin. This layer has minimum oxygen values on the order of 5-6 mg/l. Aside from this feature, minimum profile values violate criteria at sites EE3 (5.6 mg/l) Class SC (6 mg/l), AYC (6.7 mg/l) Class SB (7 mg/l), and at the reference site B2 (7.6 mg/l) Class SA (8 mg/l).



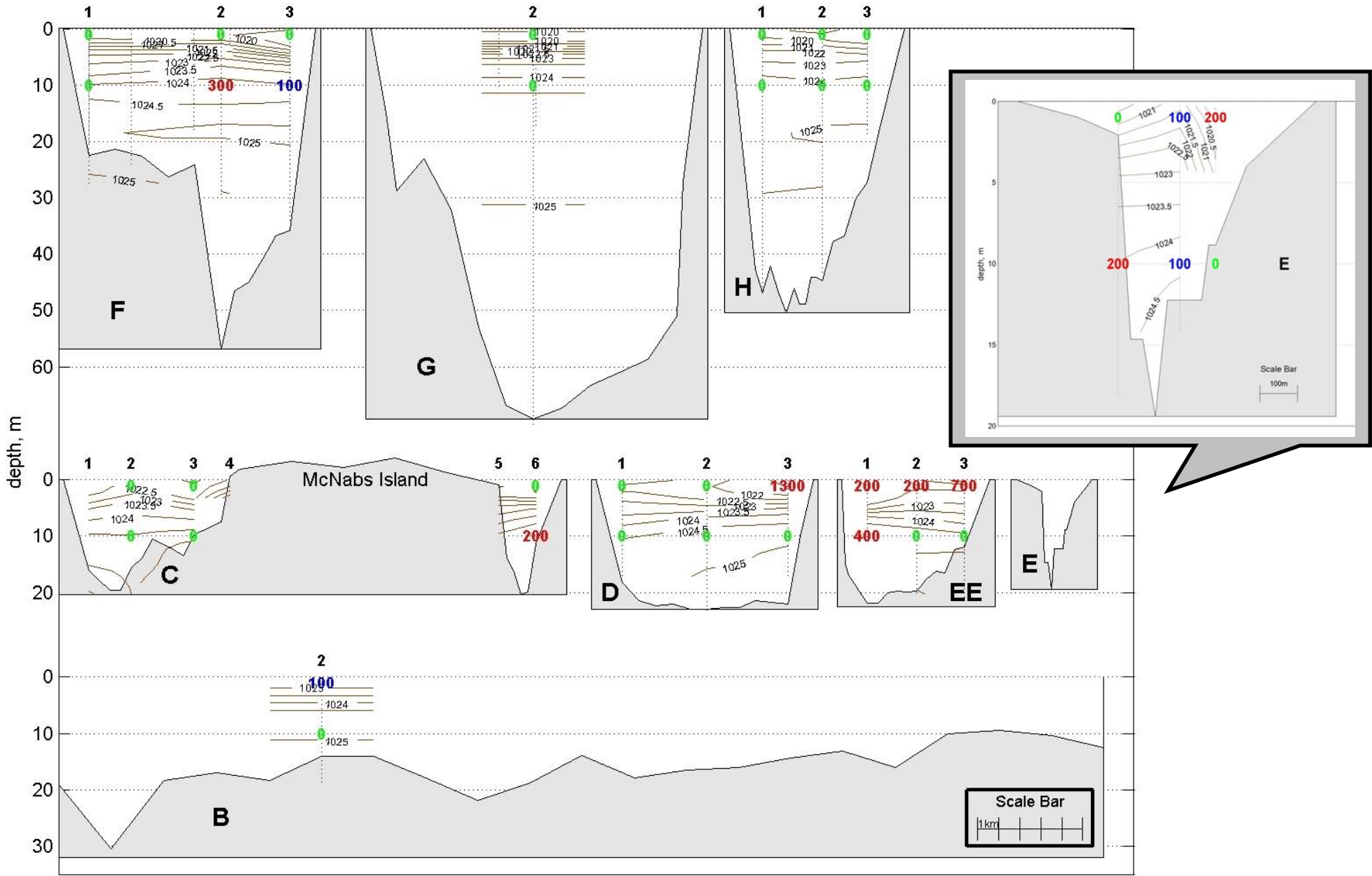
Salinity in PSU Temperature in °C



Yacht Clubs



Salinity in PSU Temperature in °C

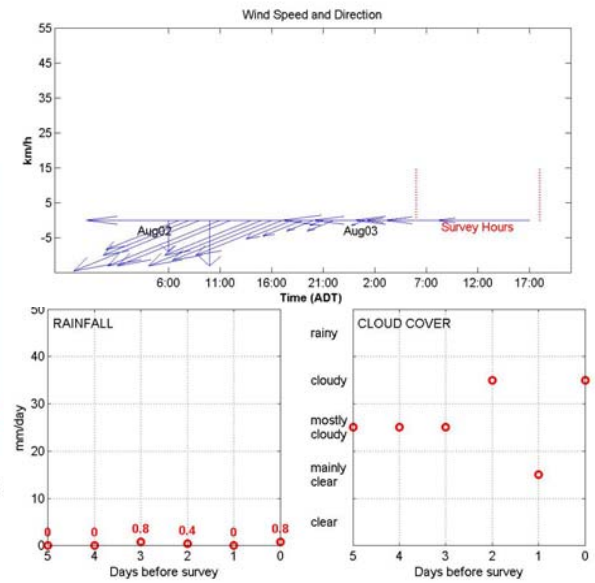
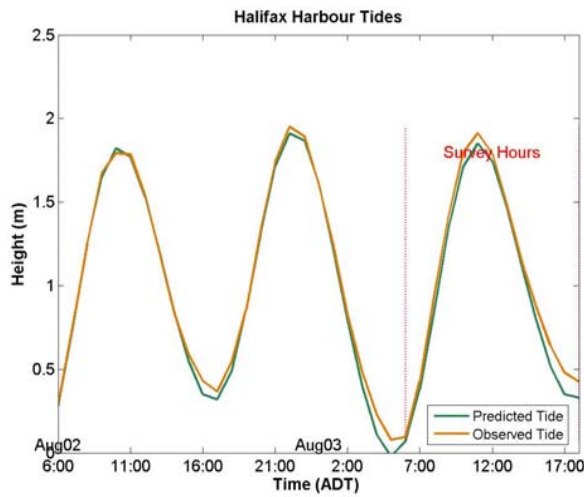
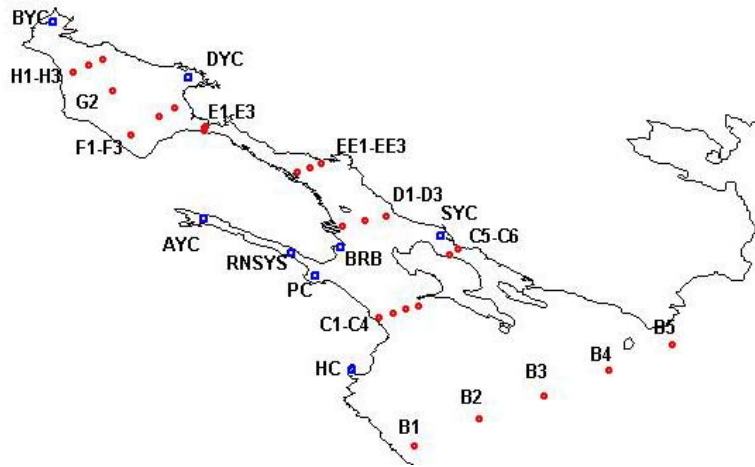


Density in kg/m³

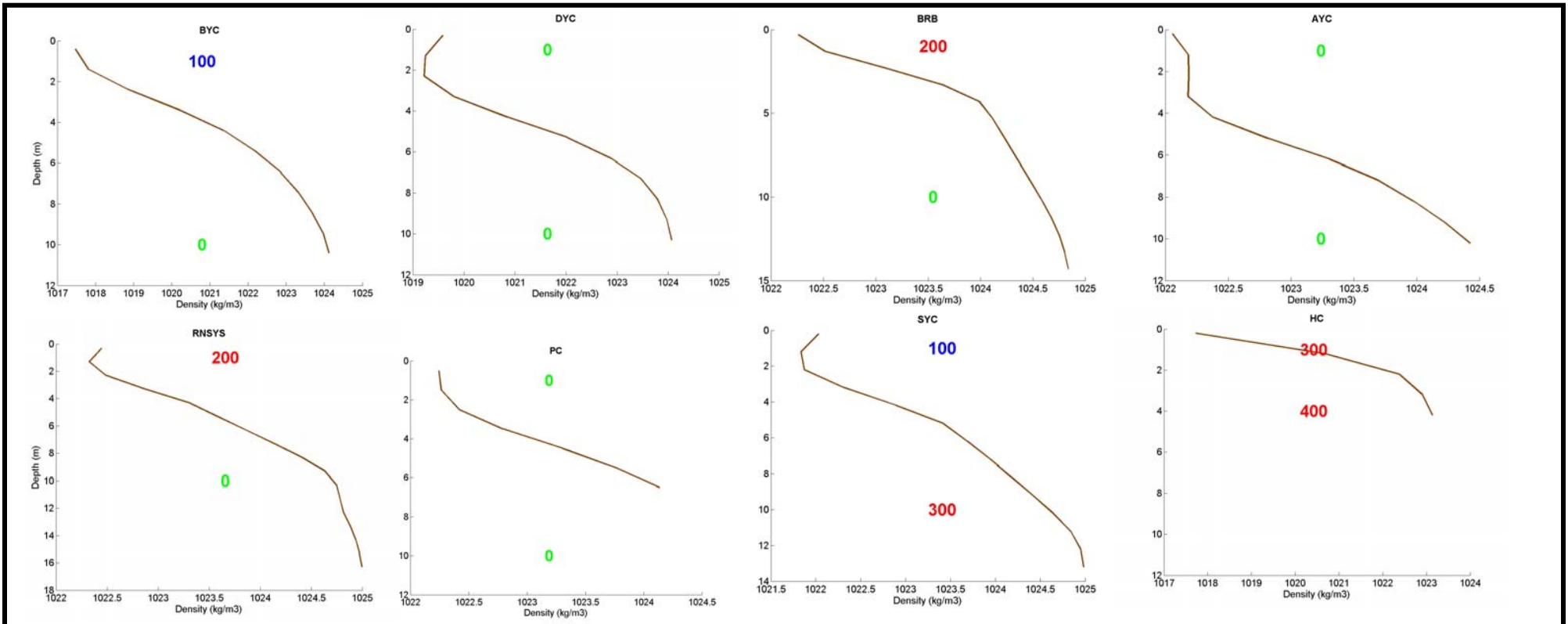
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)



Yacht Clubs

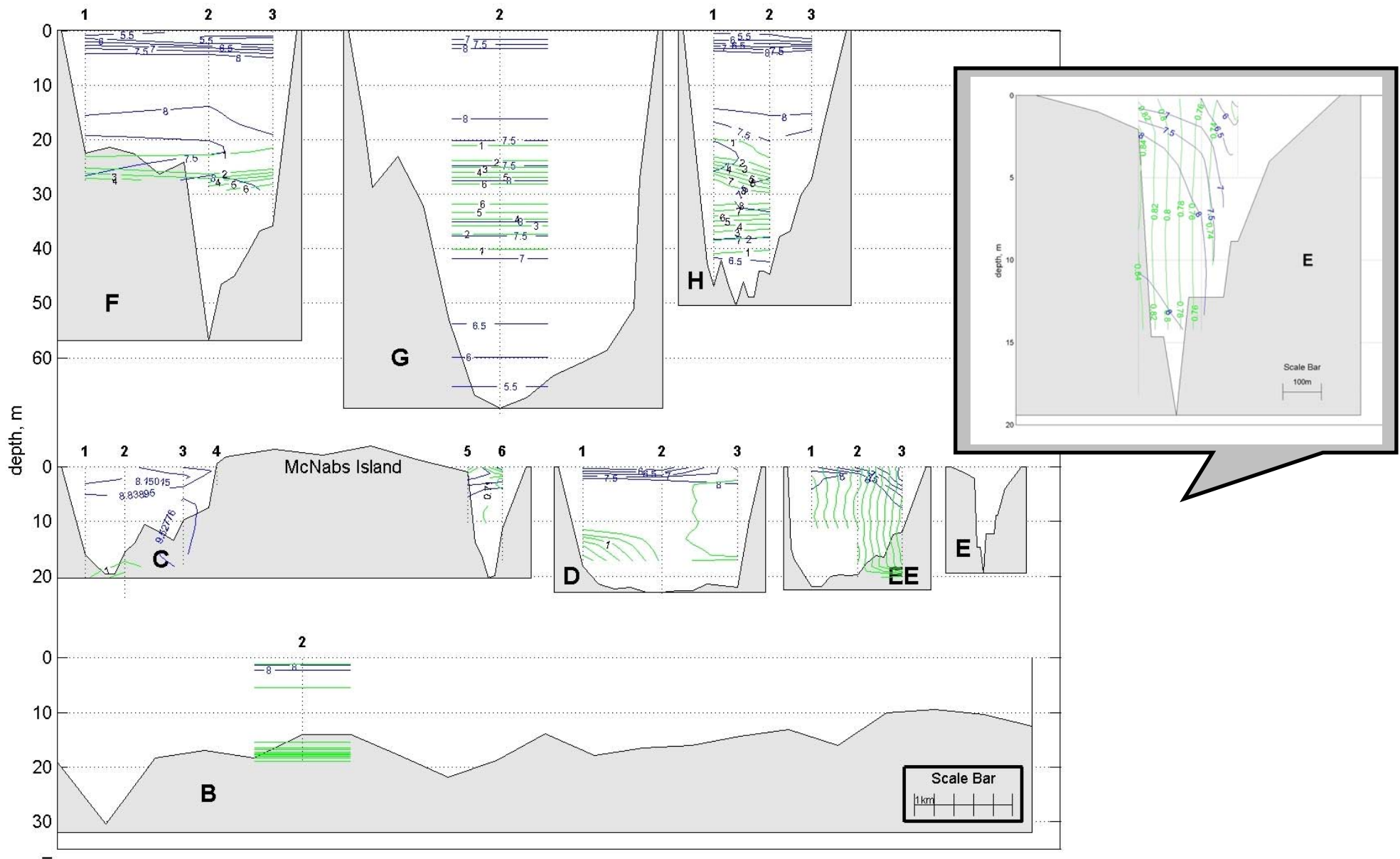


Density in kg/m^3

Fecal coliform: below limits

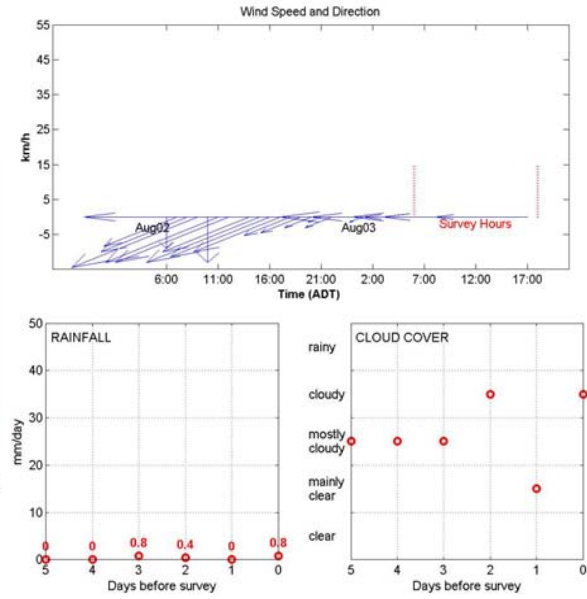
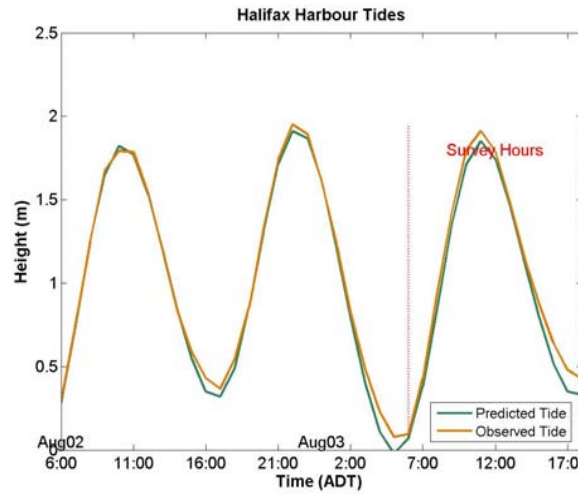
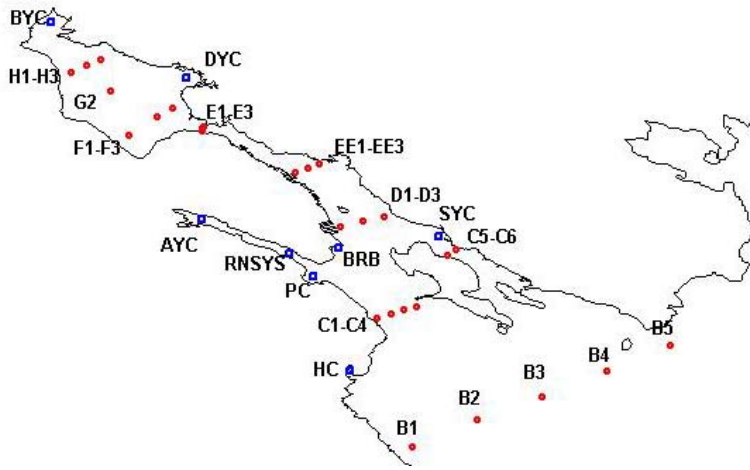
above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)

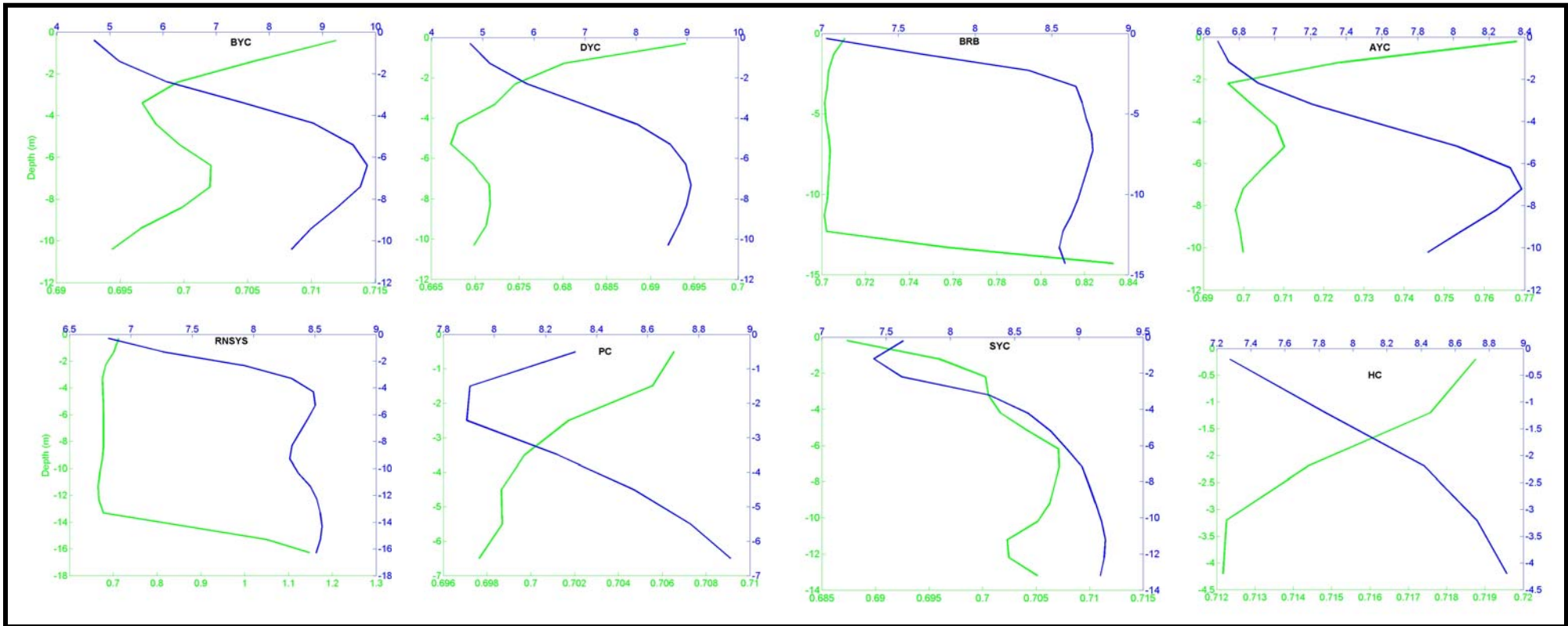


DO in mg/L

Chlorophyll in mg/m³

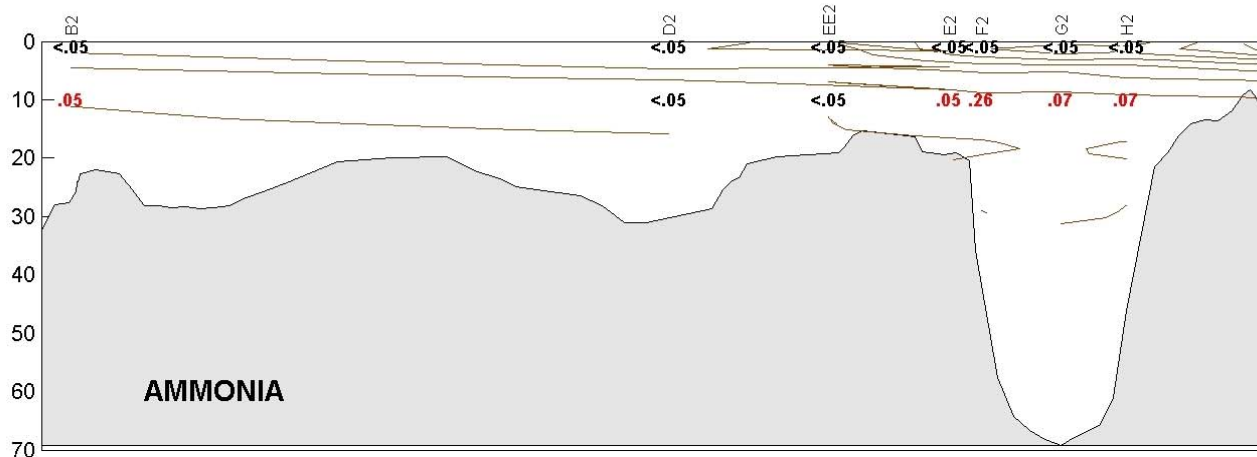
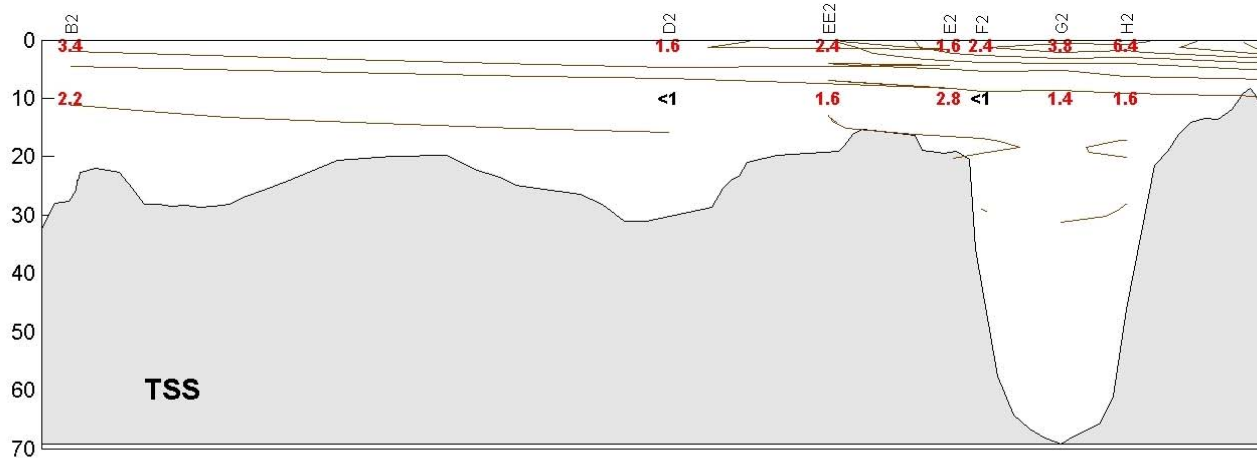


Yacht Clubs



DO in mg/L

Chlorophyll in mg/m³



Density in kg/m³

Ammonia in mg/L

TSS in mg/L

