

Halifax Harbour Water Quality Monitoring Project Weekly Summary #3

Survey Date: 07 July 04
Nature of Survey: Complete Survey
Report File (this document):

HHWQMP_report003_040707.doc
Data File: HHWQMP_data003_040707.xls

Data Return:

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

Data Notes:

Dissolved Oxygen profiles and Chlorophyll-a profiles were collected, but are not displayed graphically. This data however is included in the data file, and is summarized below.

QA/QC samples:

Parameter	units	reference sample	QA/QC	reference sample	QA/QC	Dup
Fecal Coliform	CFU/ml		n/a		0	n/a
Ammonia (as N)	mg/L		0.07		< 0.05	< 0.05
Total Suspended Solids	mg/L		missing		2.2	n/a
Boron	ug/L		3800		4100	4100
Lithium	ug/L		180		190	180
Strontium	ug/L		7100		7100	7200
Titanium	ug/L		77		77	74
Uranium	ug/L		3		3	3

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

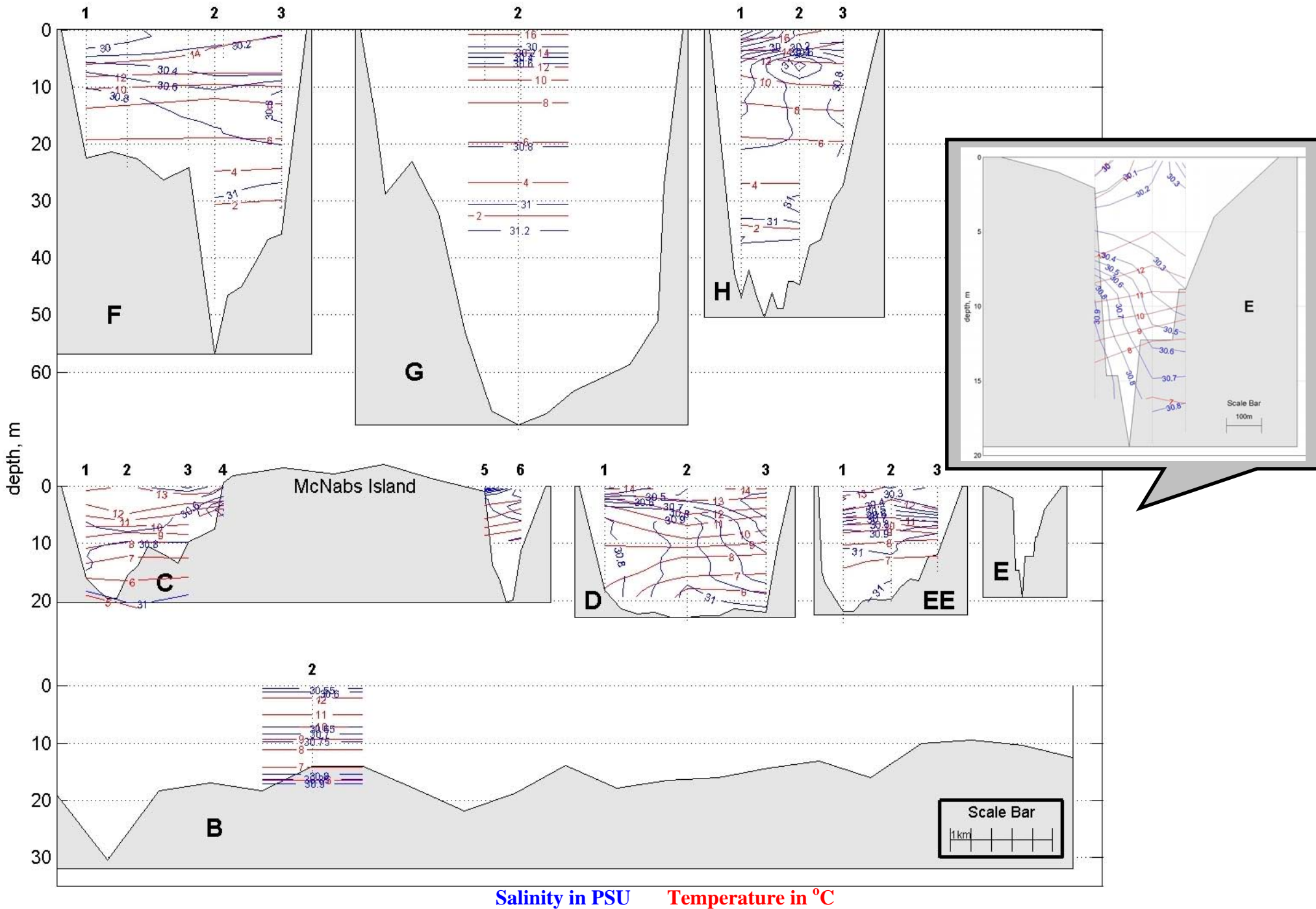
Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Aluminum	100	1	130	130
Boron	500	17	4000	3700-4400
Lithium	20	17	180	160-200
Strontium	50	17	7200	6700-7700
Titanium	20	17	74	63-82
Uranium	1	17	3	2.7-3.6

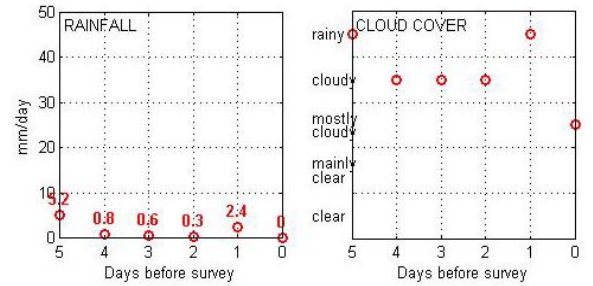
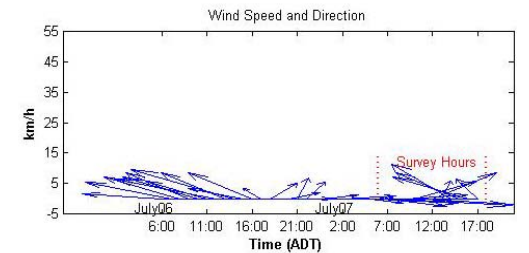
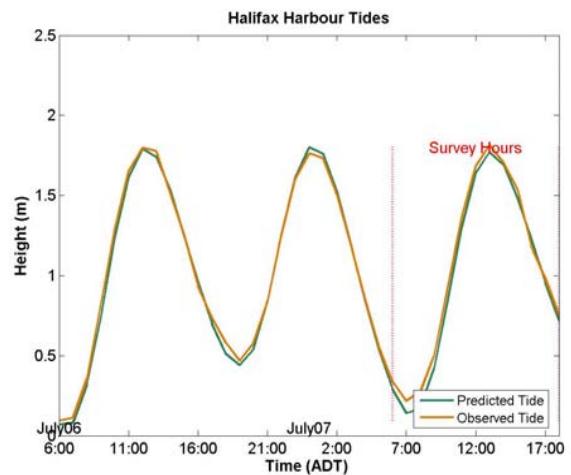
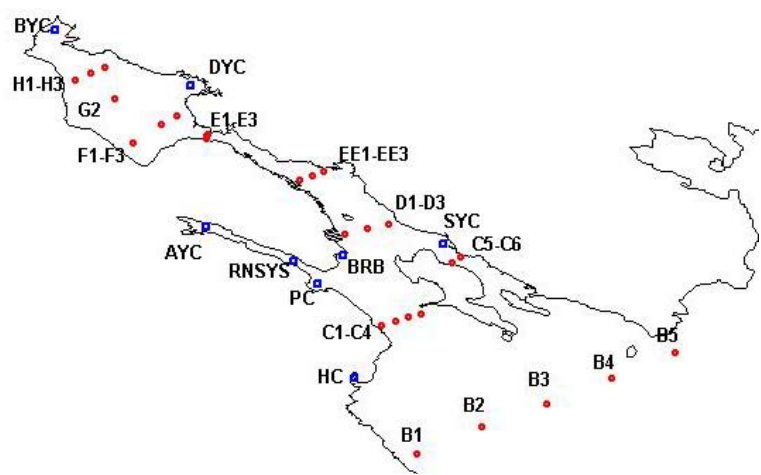
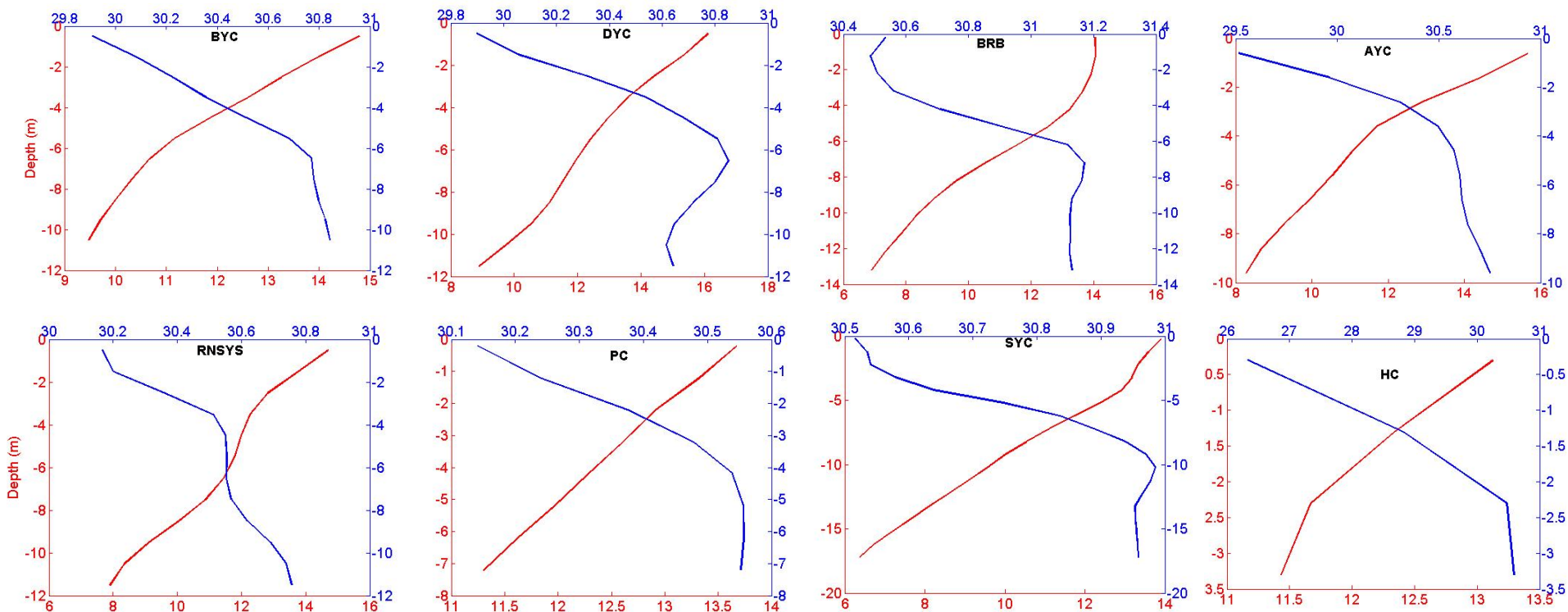
Comments:

Manganese: There is 1 sample at site H2 (1m) where a value of 24 µg/L was detected. The limit for Manganese is 100 µg/L.

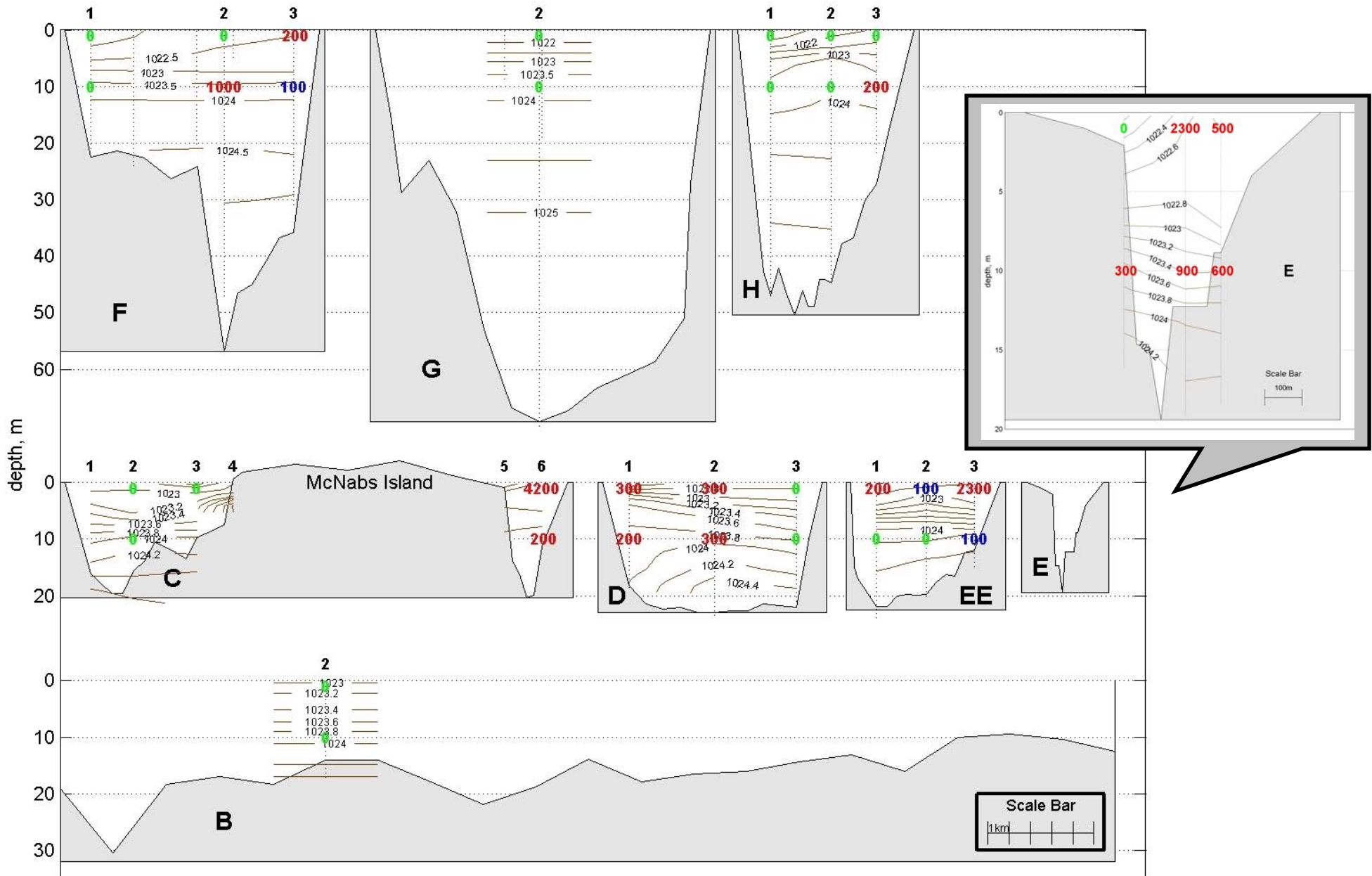
Chlorophyll-a: Values varied between 0.6 and 12.2 µg/L. The highest value was at AYC. Relatively high values were also detected at RNSYS, further down the NW Arm. Other than this there was no obvious pattern with typical maximum profile values of about 5.5 µg/L.

Dissolved Oxygen: The use specific DO criteria was violated at AYC (minimum 5.9, profile average 7.6 mg/l) and in the deep waters of Bedford Basin (G2, minimum 6.6, profile average 8.2 mg/l). Both sites are class SB, which has a DO limit of 7.0 mg/L.





Salinity in PSU Temperature in °C

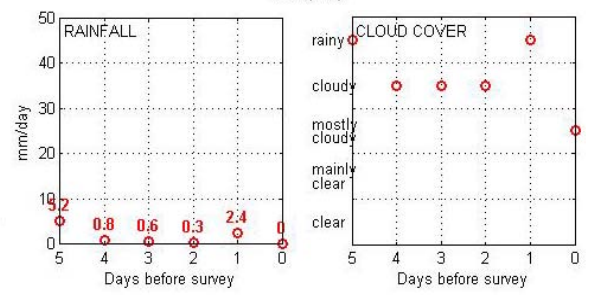
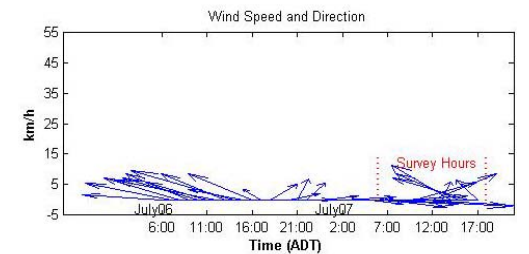
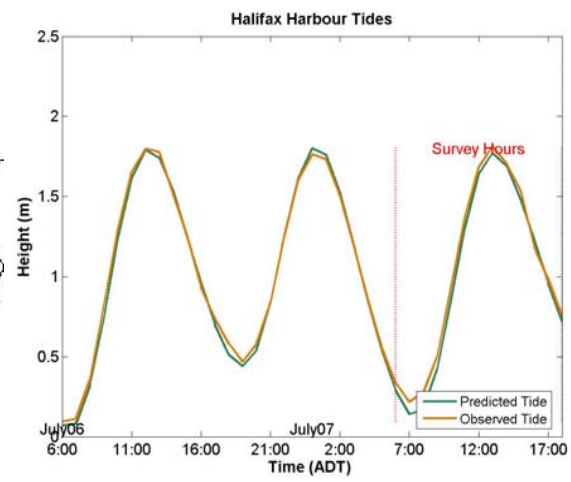
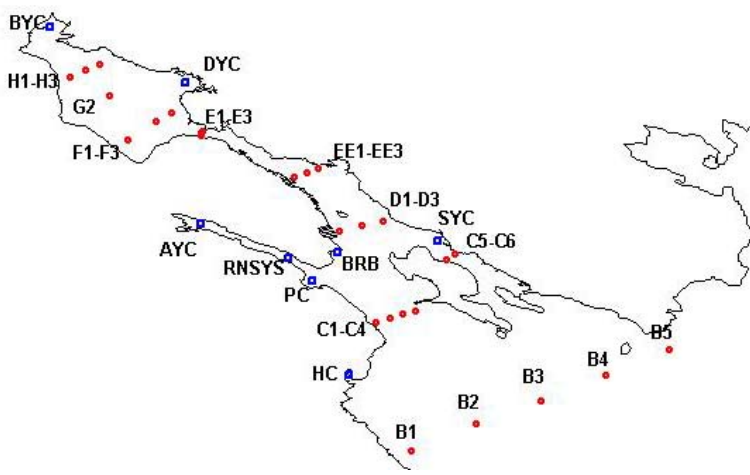
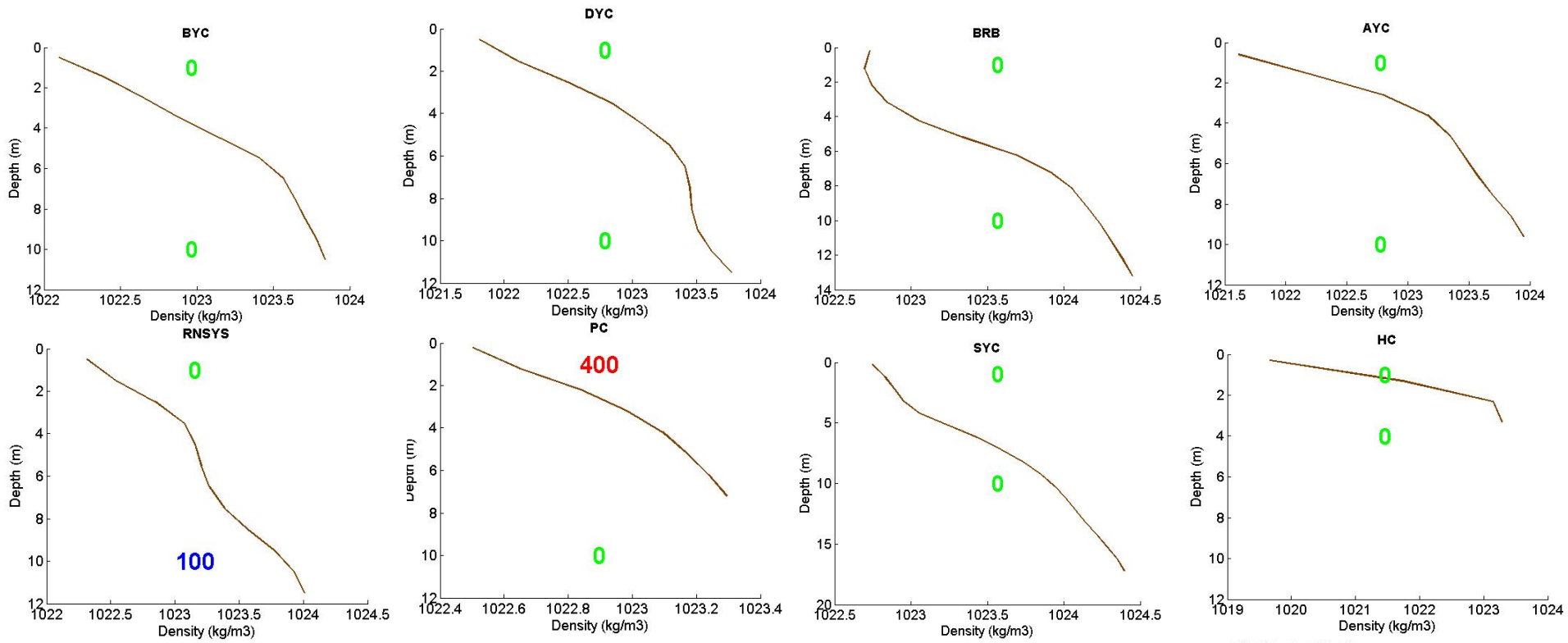


Density in kg/m³

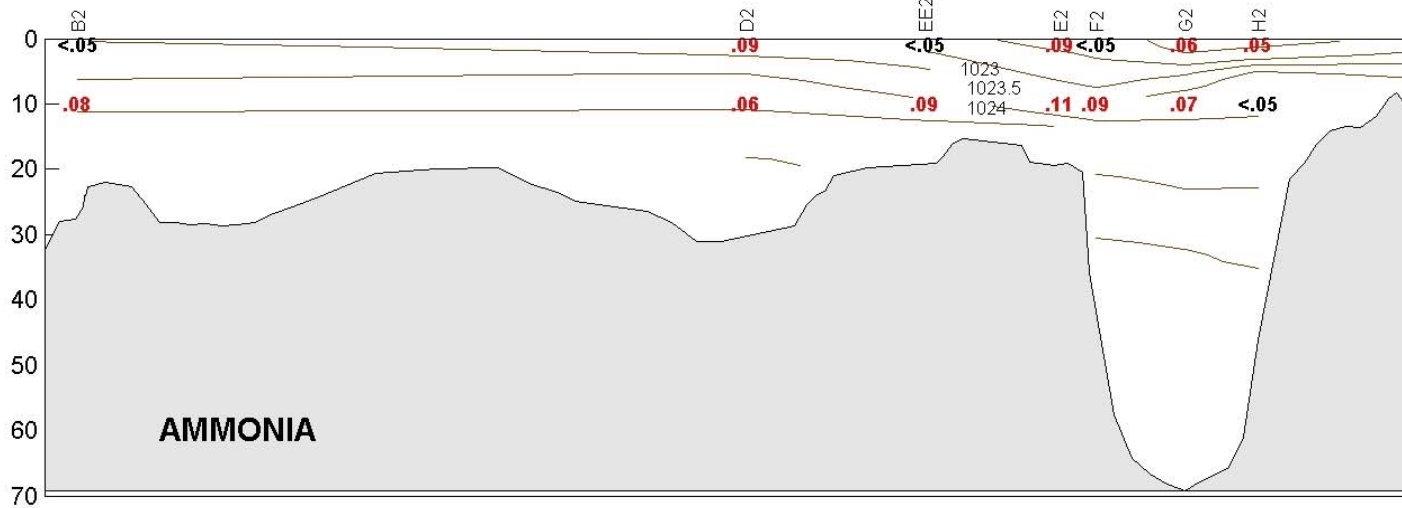
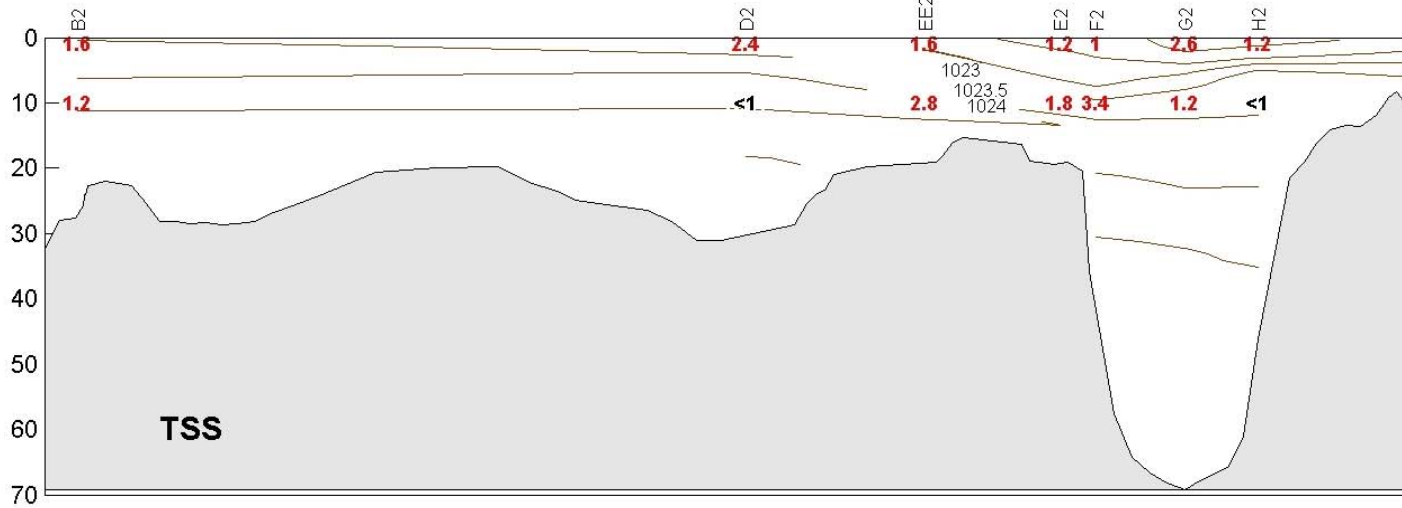
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)



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



Density in kg/m³

Ammonia in mg/L

TSS in mg/L

