Halifax Harbour Water Quality Monitoring Project
Weekly Summary #19

Survey Date: **26 Oct 04**
Nature of Survey: Complete Survey
Report File (this document):
HHWQMP_report019_041026.doc
Data File: HHWQMP_data019_041026.xls

Data Return:

Profile:	97%
Bacteria:	96%
Chemical:	86%
Overall:	**93%**

Sample Notes:

Site B2 not sampled due to weather.

QA/QC samples:

Chemical Analysis

Detectable Parameter	units	EE2 - 1m reference sample	QA/QC
Ammonia (as N)	mg/L	0.06	0.07
Total Suspended Solids	mg/L	5.1	11.1
Boron	ug/L	4500	4600
Lithium	ug/L	190	170
Strontium	ug/L	6100	6200
Titanium	ug/L	68	73
Uranium	ug/L	3.2	3.2

Fecal Coliform (CFU/100ml)

Site	H2-1m	EE1-1m	BRB-10m	AYC-10m	SYC-10m	EE2-1
Reference	15	5000	1200	20	27	9200
QA/QC	30	>10000	2100	320	72	6400

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			$CBOD_5$	5
Copper	20				
Lead	5				

Detectable non regulated metals

Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Aluminum	100	1	120	120
Boron	500	13	4440	4100-4700
Lithium	20	13	180	170-200
Strontium	50	13	6220	6100-6400
Titanium	20	13	70	58-80
Uranium	1	13	3.3	3.0-3.6
Vanadium	20	1	23	23

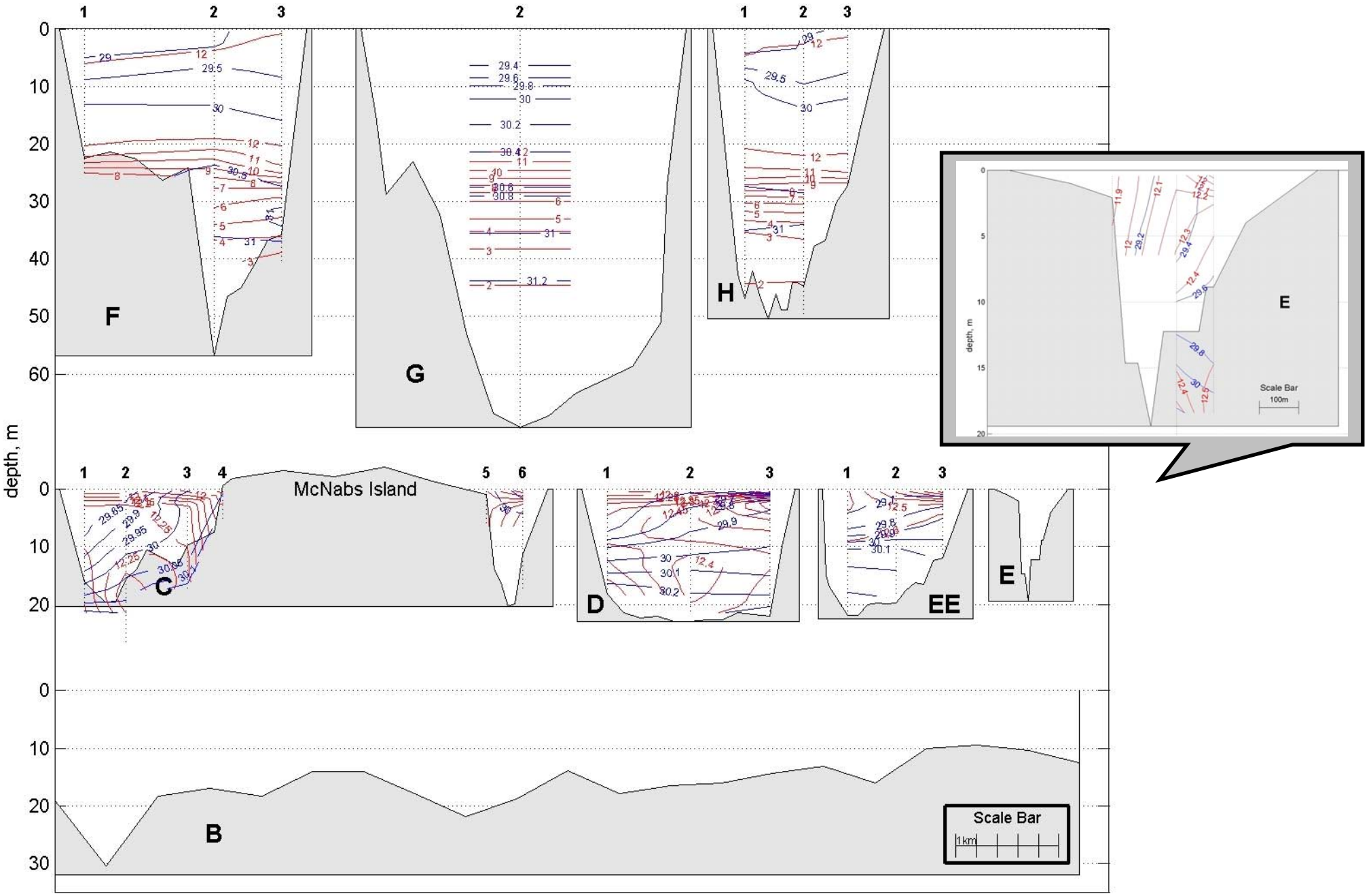
Comments:

$CBOD_5$: One sample (D2-1m, 5 mg/l) had a detectable level of $CBOD_5$. EQL = 5 mg/L.

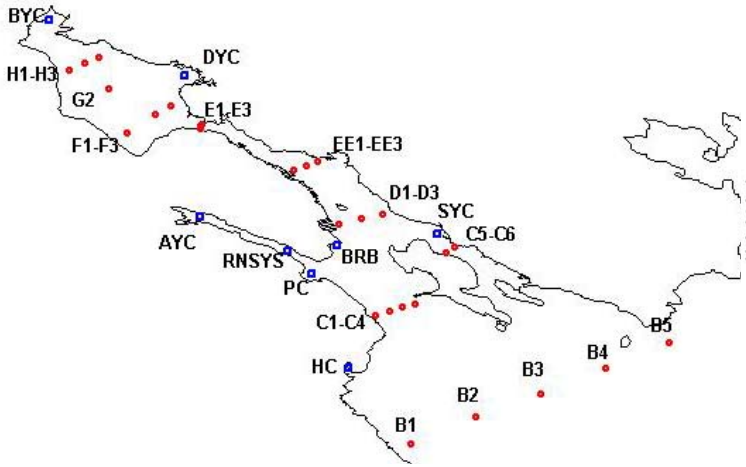
Manganese: One sample (F2-1m, 24 µg/l) had a detectable level of manganese. Guideline = 100 µg/L.

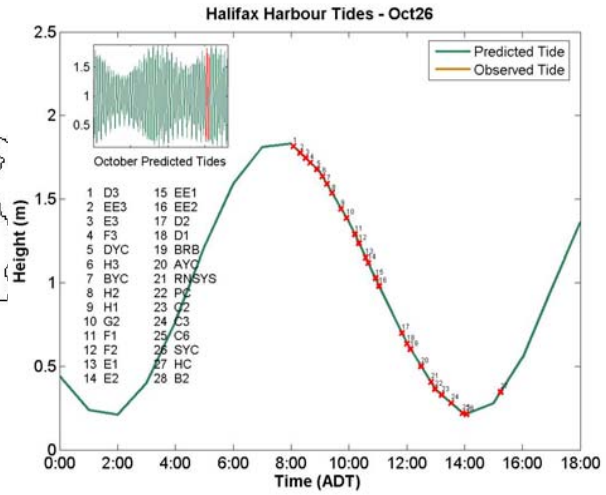
Zinc: One sample (D2-1m, 71 µg/l) had a detectable level of zinc. Guideline = 86 µg/L.

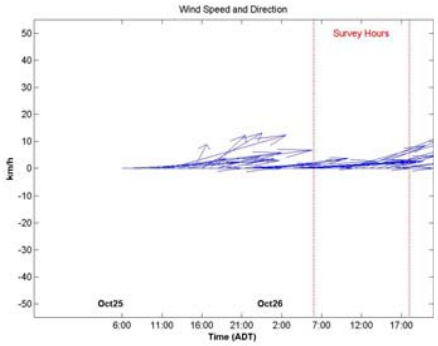
Dissolved Oxygen: The apparent lower oxygen values at the near surface are likely the result of flow problems in the sensor (See report #12). The dissolved oxygen continues to drop (2.3 mg/L) in the bottom of Bedford Basin.

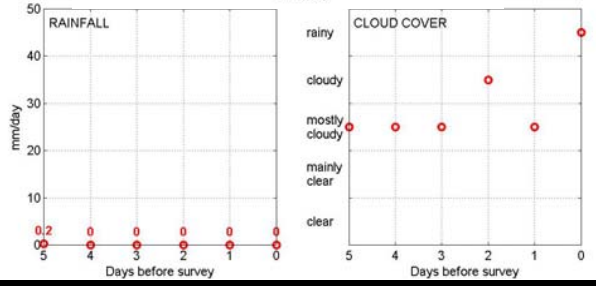


Salinity in PSU **Temperature in ^{o}C**

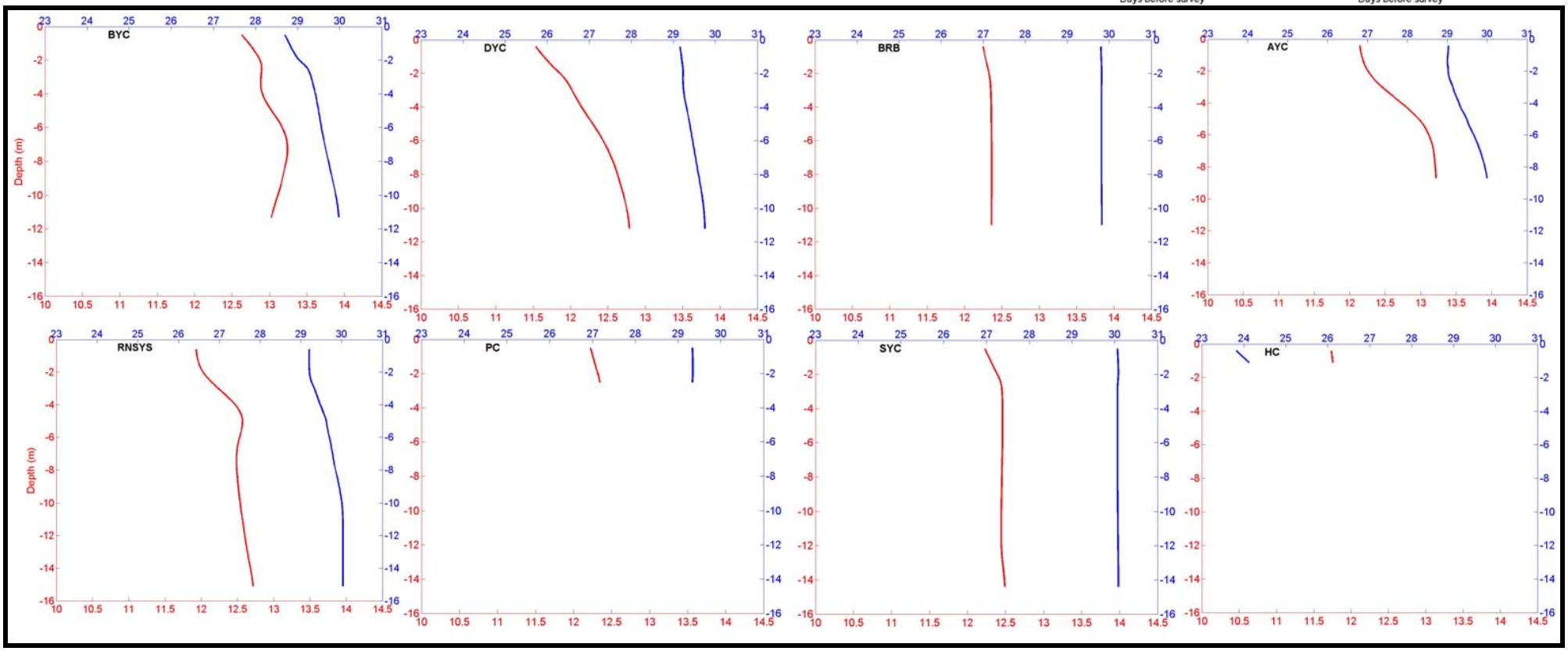








Yacht Clubs



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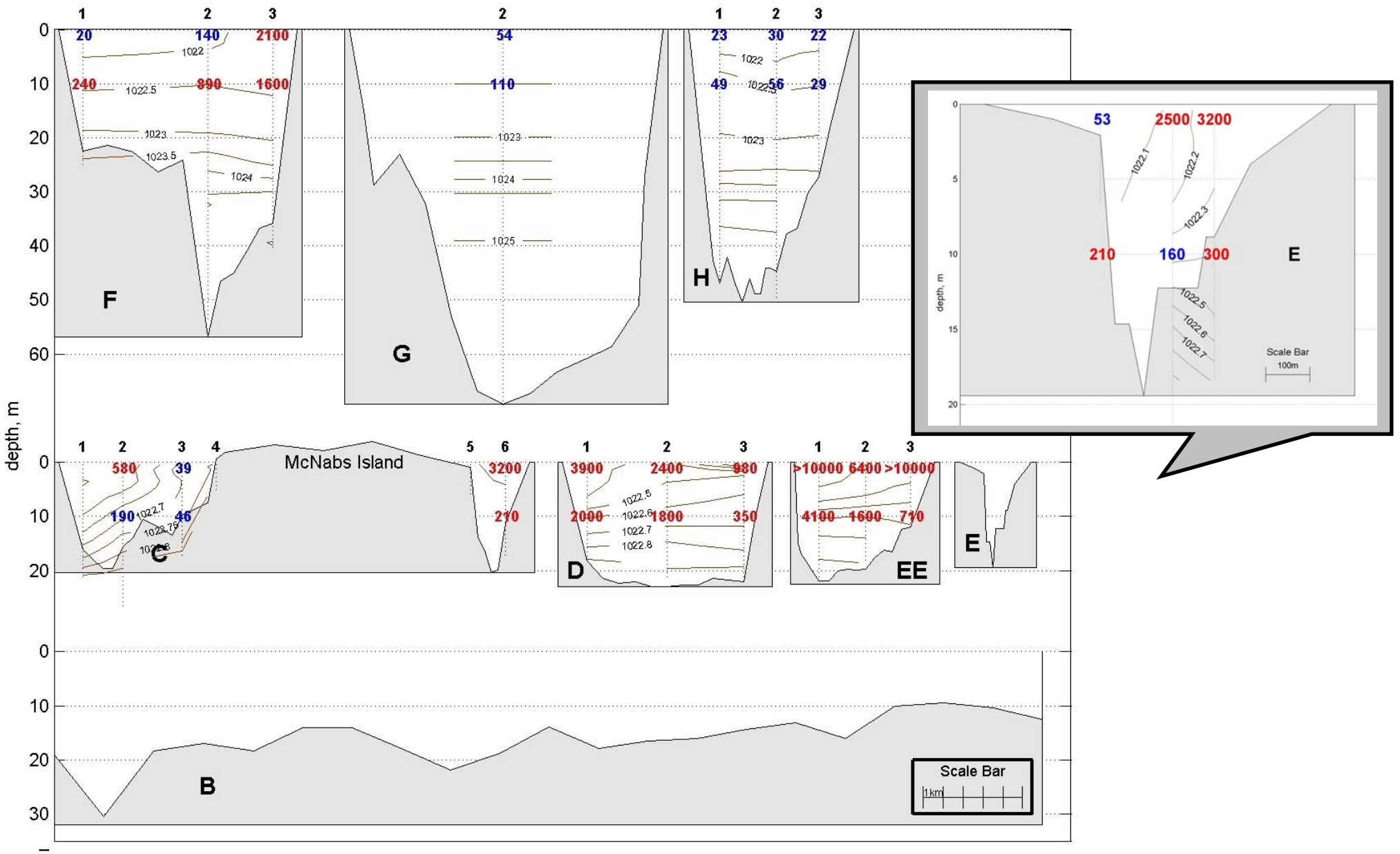
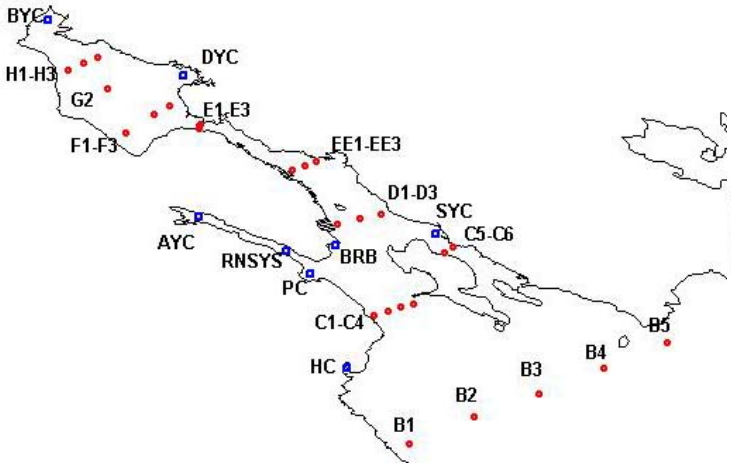
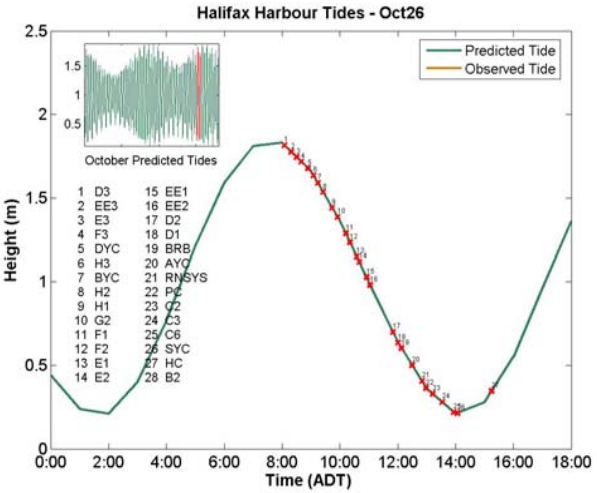
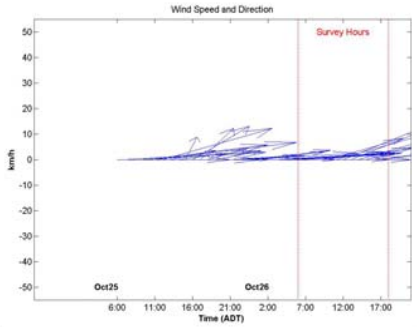
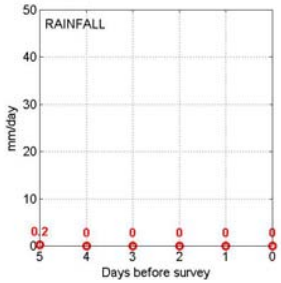


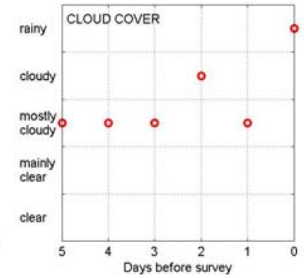
Density in kg/m^3 **Fecal coliform:** below limits
above shellfish limit (14 cfu/100mL)
above swimming limit (200 cfu/100mL)











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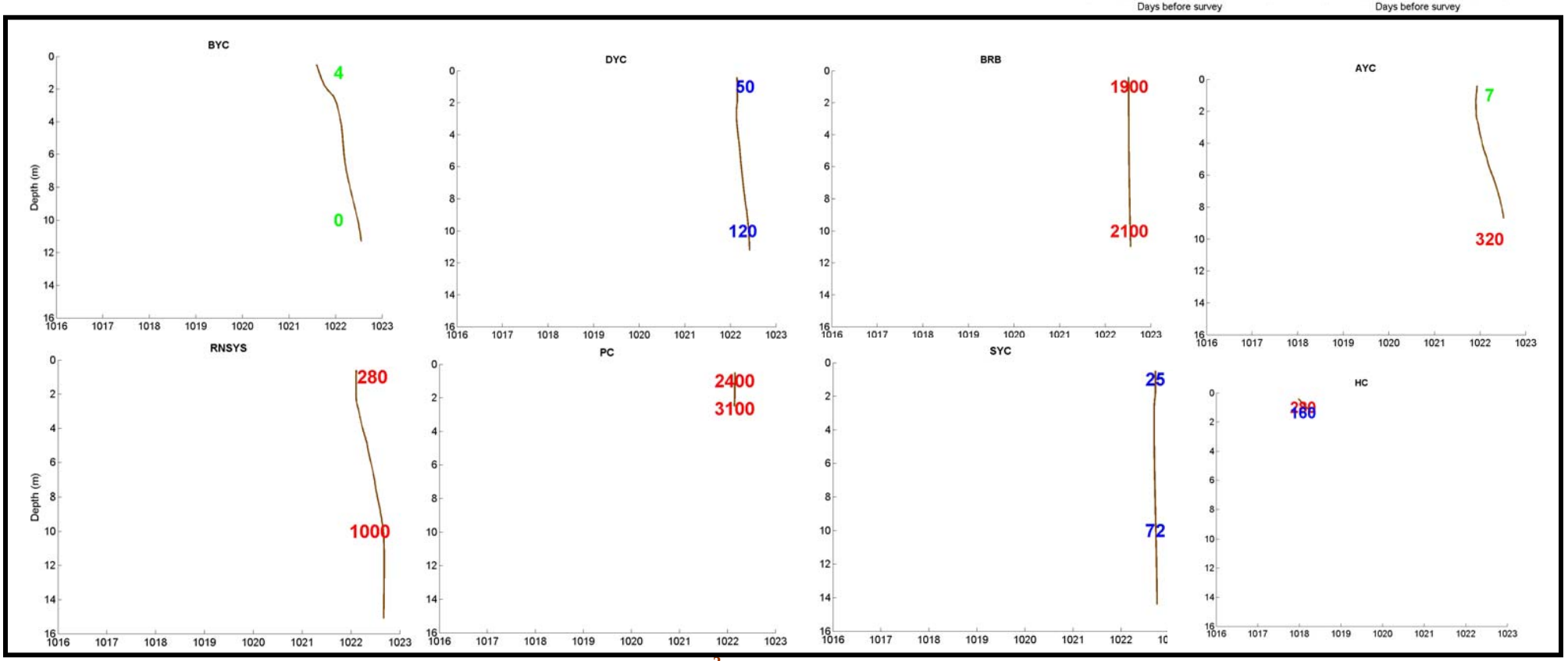

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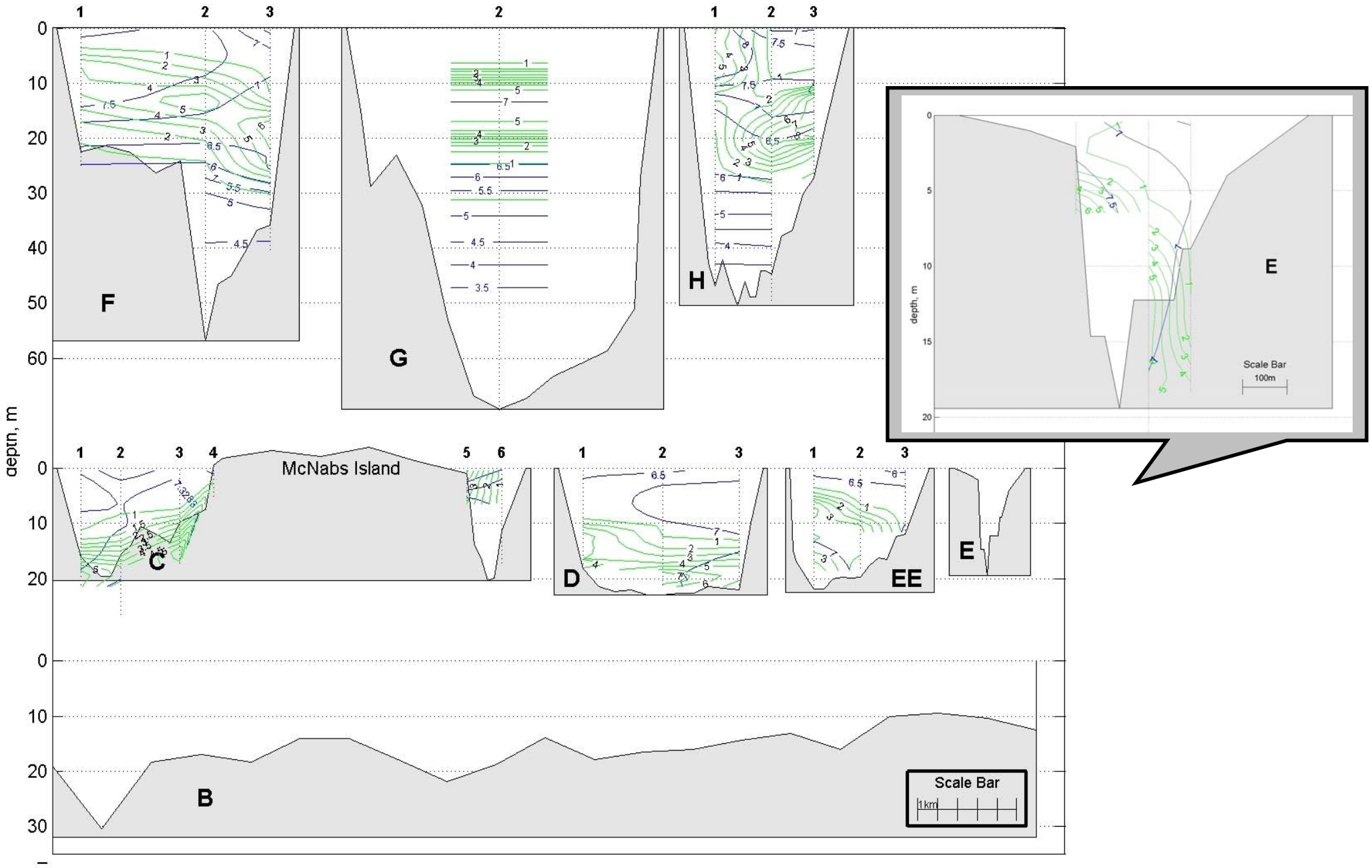
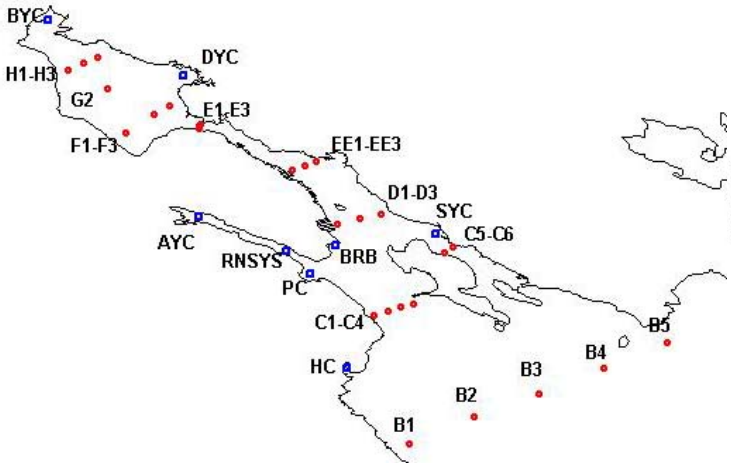
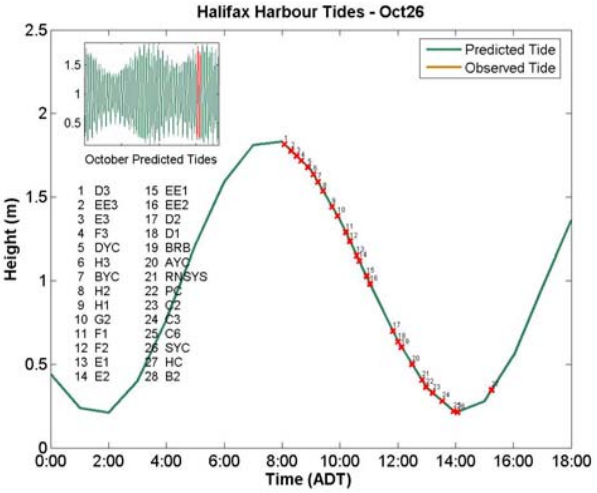
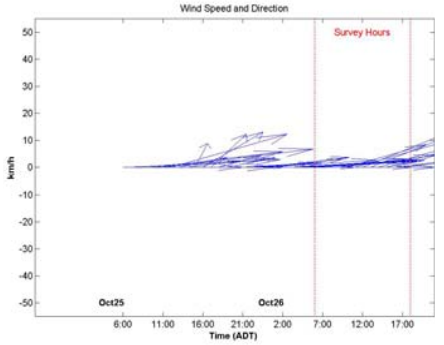
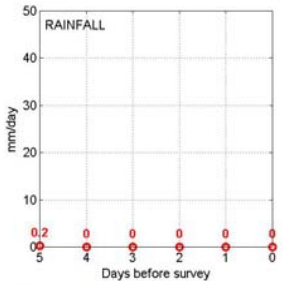


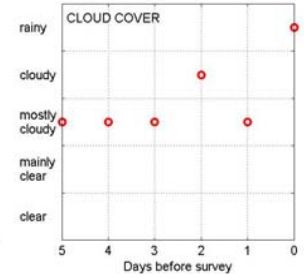
DO in mg/L **Chlorophyll in mg/m^3**











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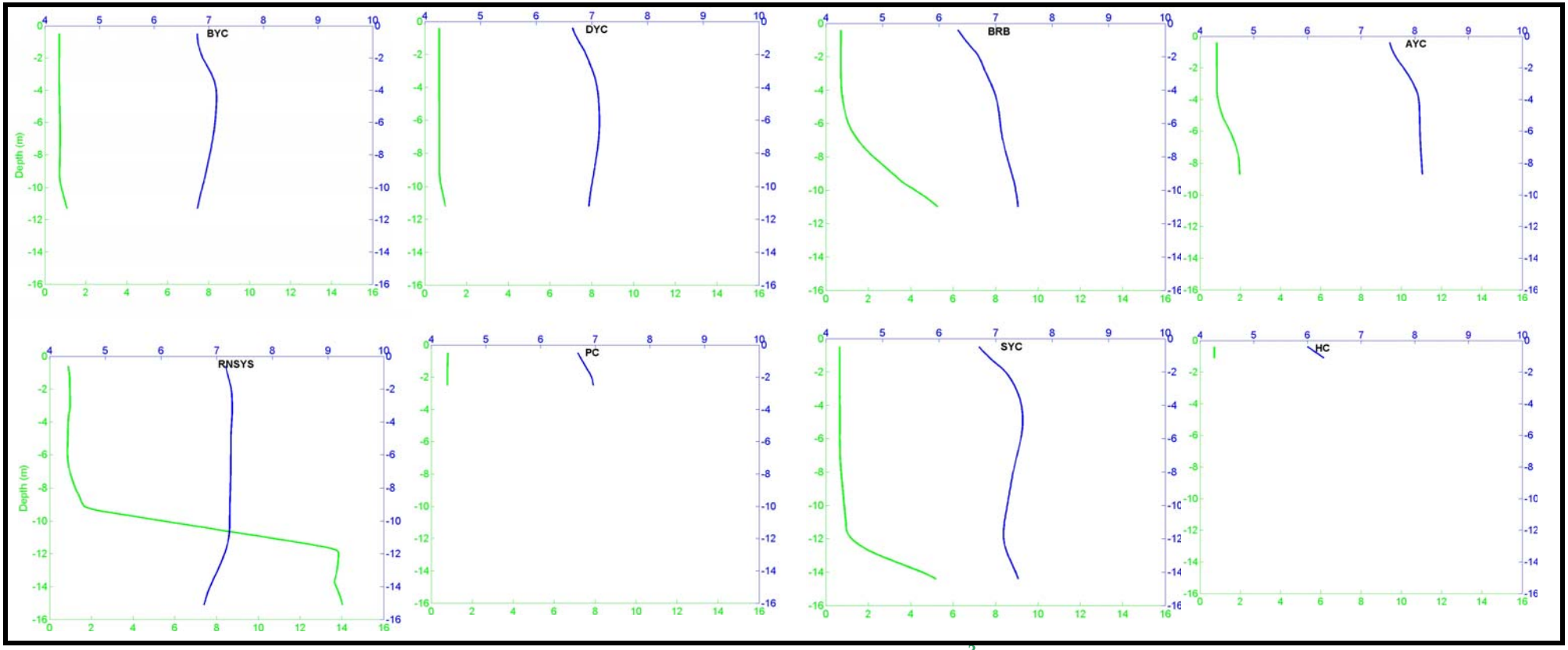
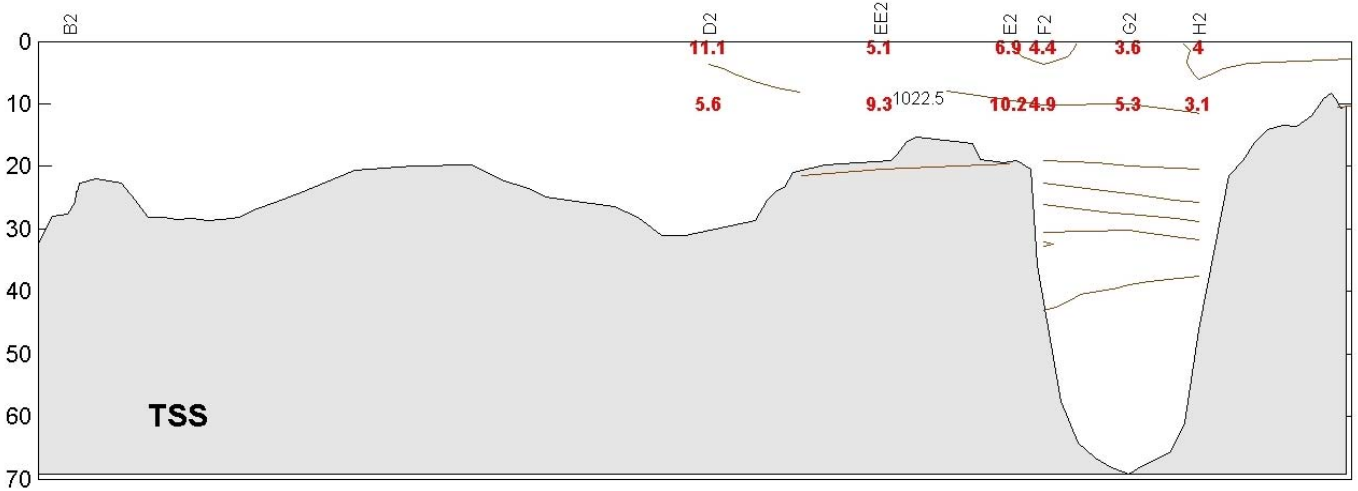
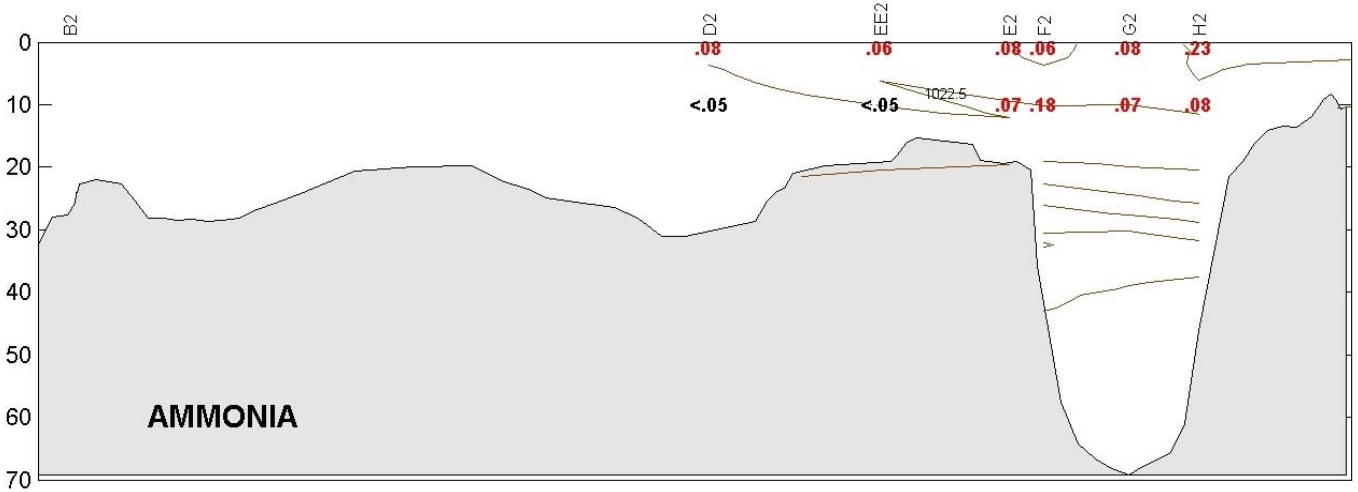
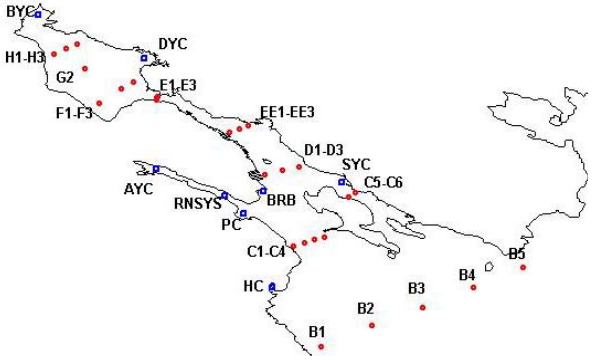


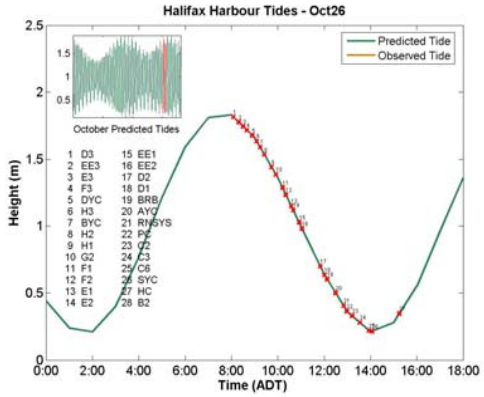
DO in mg/L **Chlorophyll in mg/m^3**

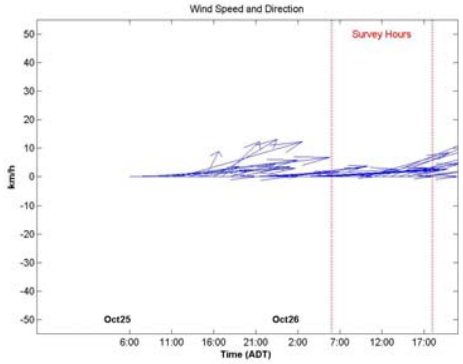
CHEMISTRY

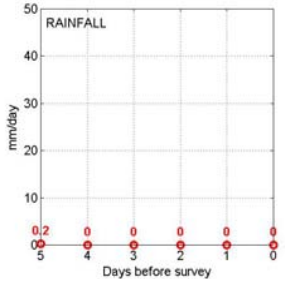


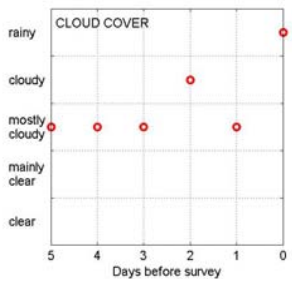












Density in kg/m^3 **Ammonia in mg/L** **TSS in mg/L**