

Halifax Harbour Water Quality Monitoring Project Weekly Summary #6

Survey Date: 28 July 04
Nature of Survey: Coliform Survey
Report File (this document): HHWQMP_report006_040728.doc
Data File: HHWQMP_data006_040728.xls

Data Return:
 Profile: 100%
 Bacteria: 100%
 Chemical: na
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:

Fecal Coliform (CFU/ml)

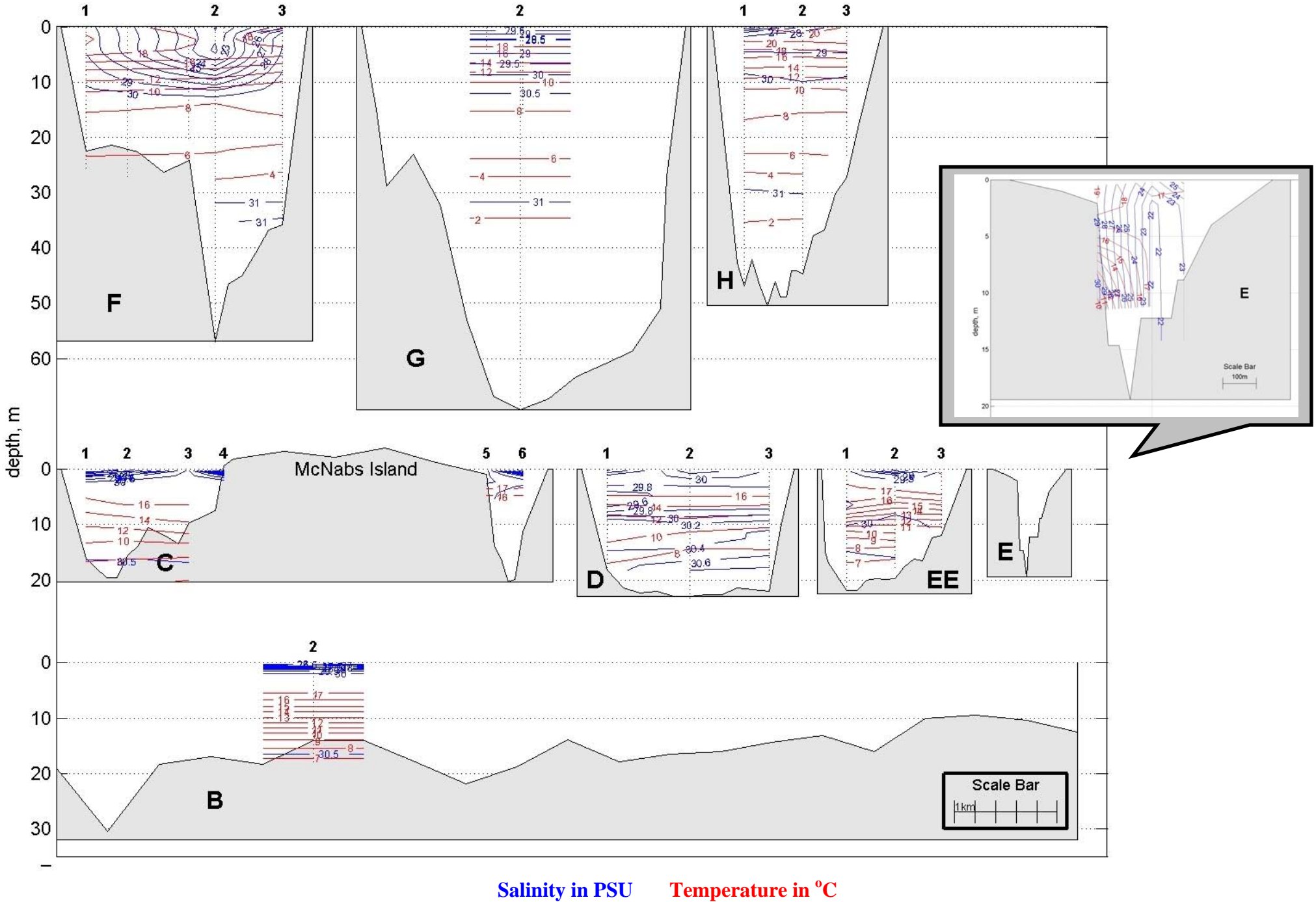
Site	D3-1m	EE2-1m	F3-1m	EE1-10m	D1-1m	RNSYS-10m
Reference	0	7	8	5	2	0
QA/QC	2	11	5	11	1	0

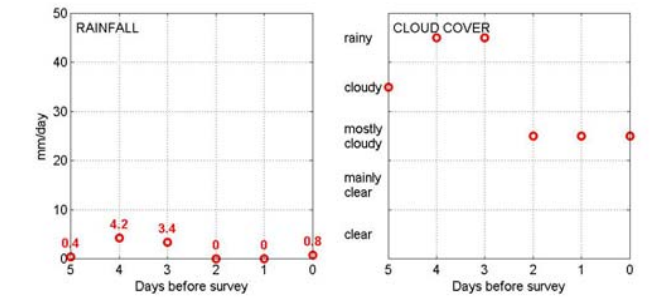
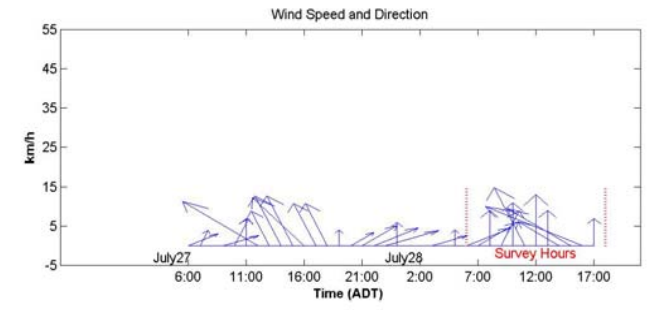
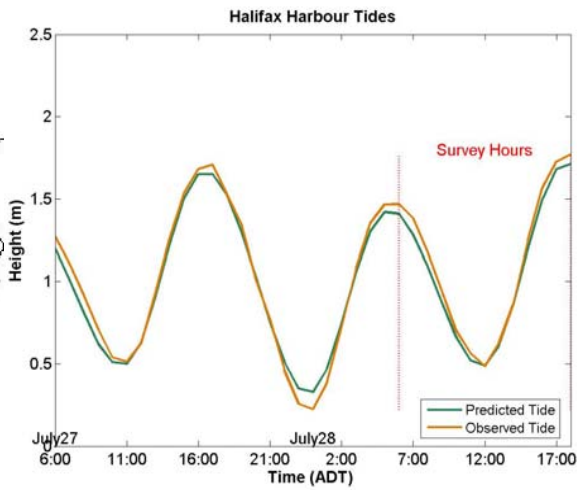
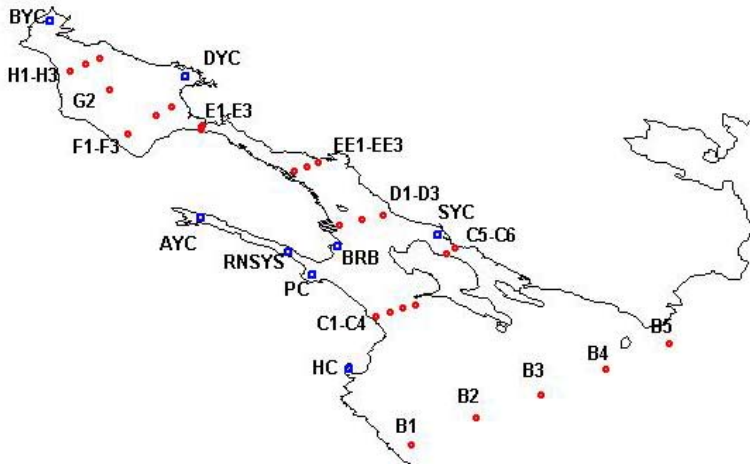
Comments:

Chlorophyll-a: Values varied between 0.5 and 27.3 µg/L. The highest value was at BYC The second highest value (22.2 µg/L was at AYC. . Relatively uniform values (profile averaged values of 5-10 µg/L, maximum values 10-20 µg/L) occurred in the inner harbour, between sections D through E. Values near these levels continued throughout the surface waters (<20m)of Bedford Basin. The maximum value at the reference station (B2) was 3.2 µg/L.

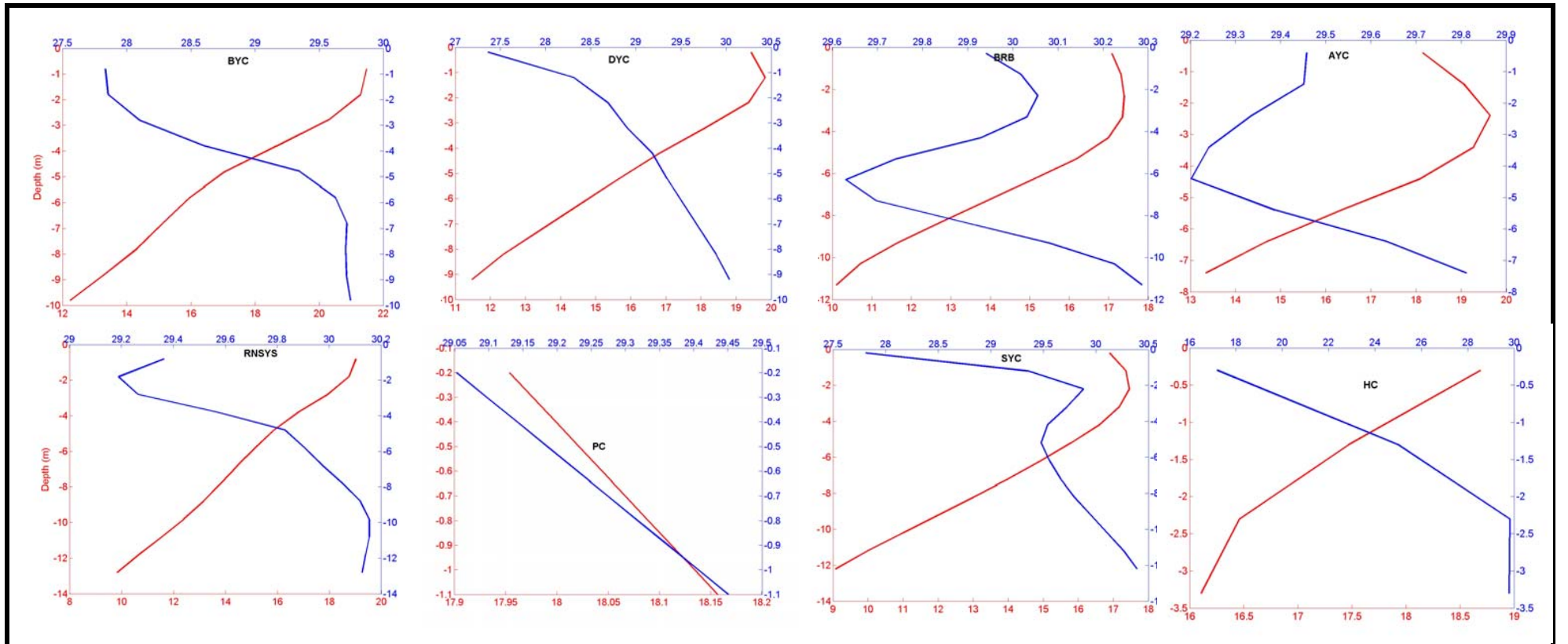
Dissolved Oxygen: The use specific DO criteria was violated , by minimum profile values at several SB(limit 7 mg/l) sites: AYC (5.6), BYC(5.9), G2 (5.6), H1 (6.5), H2 (6.6), Site F2 measurements violated the criteria not only with the profile minimum value (2.1) but with the profile average value (5.9). At sites E2 and E3, both classified SC (limit 6 mg/l), measurements indicate that the entire water column violated the criteria. At both sites the profile was very uniform at about 4.8 mg/L. At these sites the temperature and salinity also did not vary with depth and at the next site F2 there was an anomalously low value of DO. It appears that the instrument was malfunctioning, perhaps due to a plugged tube on the pump system, and resumed normal functioning part way down at site F2

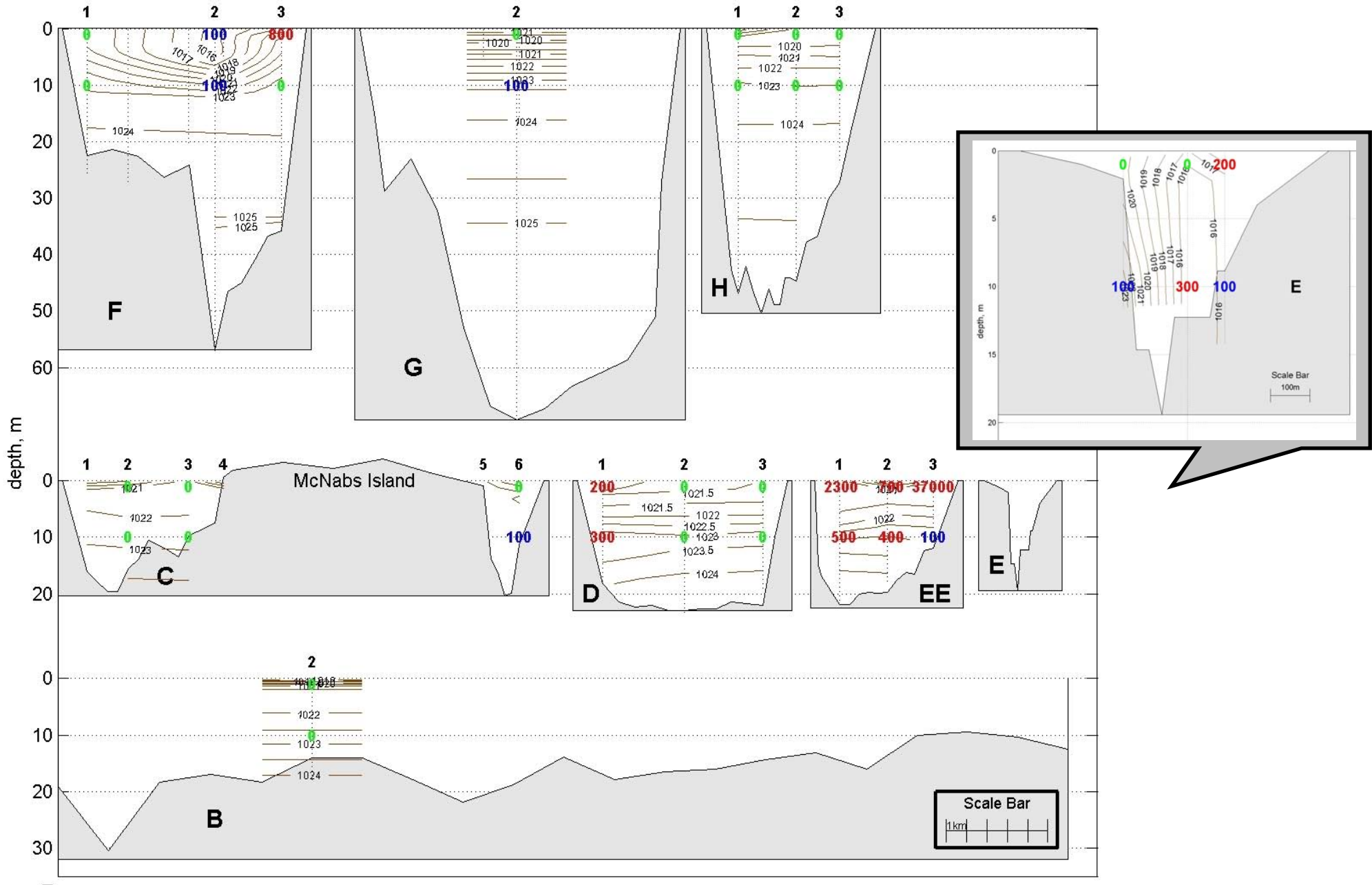
The anomalous measurements at E2, E3 and the top of F2 are also evident in the section plots which follow.



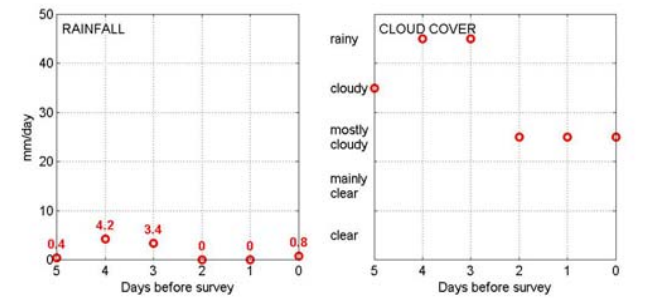
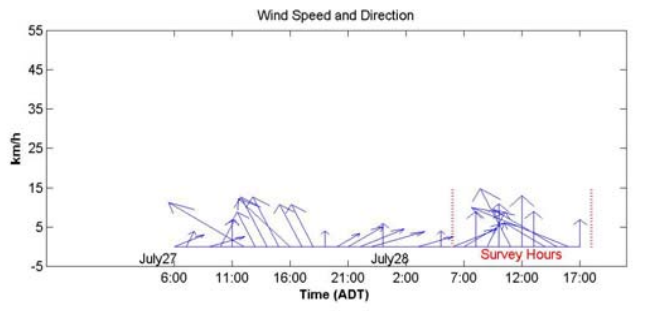
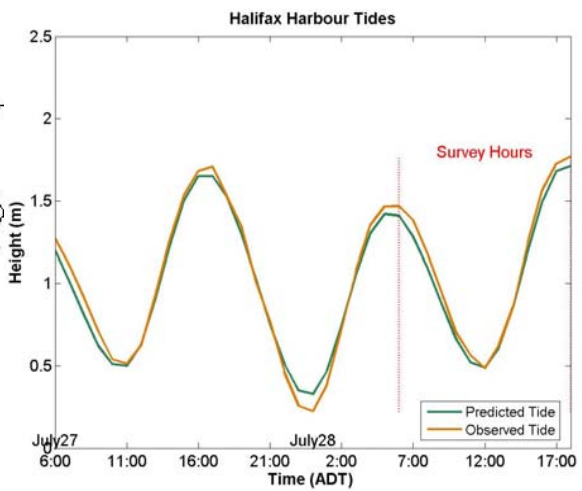
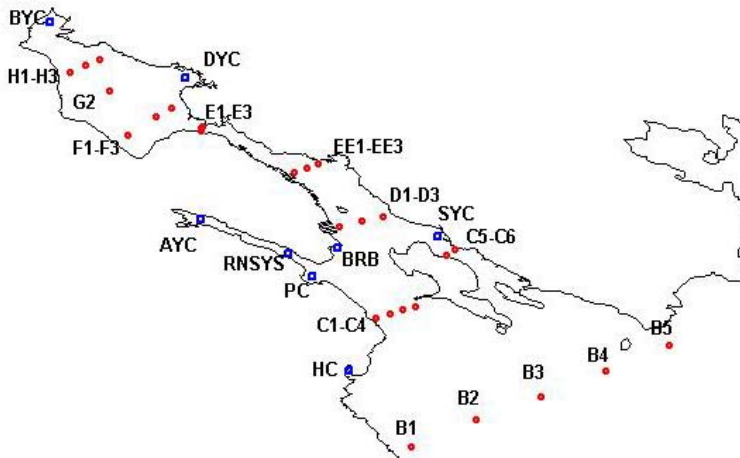


Yacht Clubs





Density in kg/m³ **Fecal coliform: above swimming limit (200 cfu/100mL)**
above shellfish limit (14 cfu/100mL)
 below limits



Yacht Clubs

