

# Halifax Harbour Water Quality Monitoring Project

## Weekly Report #44

**Survey Date:** 19 April 2005  
**Nature of Survey:** Coliform Survey  
**Report File (this document):** HHWQMP\_report044\_050419.doc  
**Data File:** HHWQMP\_data044\_050419.xls

**Data Return:**  
Profile: 97%  
Bacteria: 100%  
Chemical: na  
**Overall: 98%**

### Sample Notes:

Site C5 (CTD only) skipped due to diving operations in the area.

### QA/QC samples:

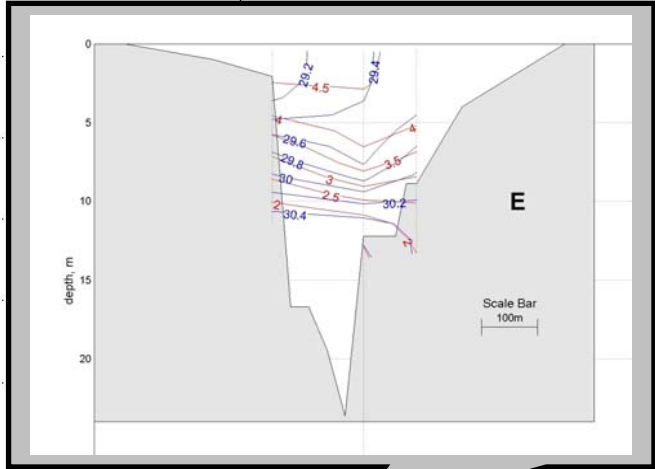
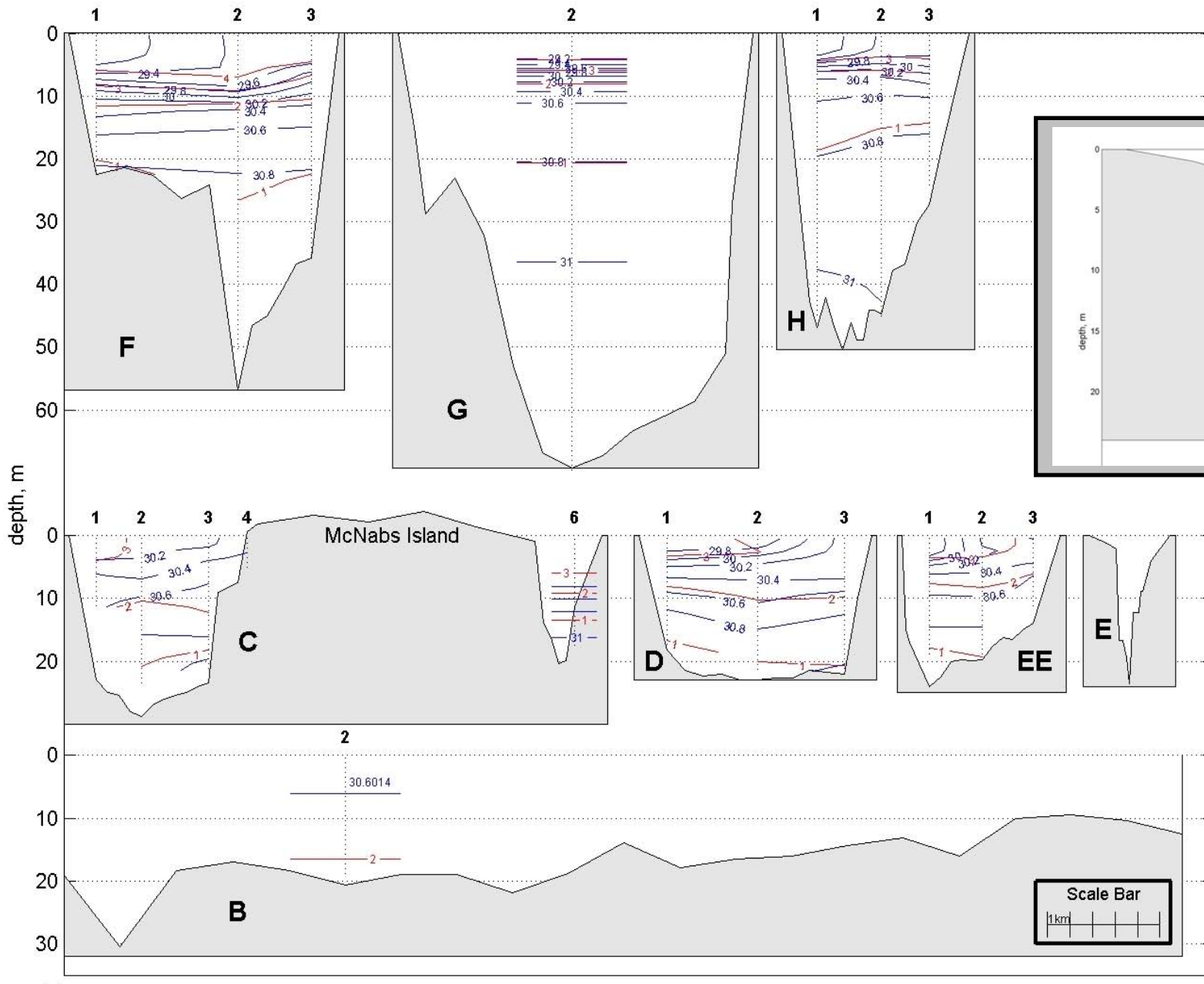
#### Fecal Coliform (CFU/100ml)

Site	H3-10m	DYC-1m	F2-10m	RNSYS-1m
Reference	9	ND	7	9
QA/QC	5	ND	3	10

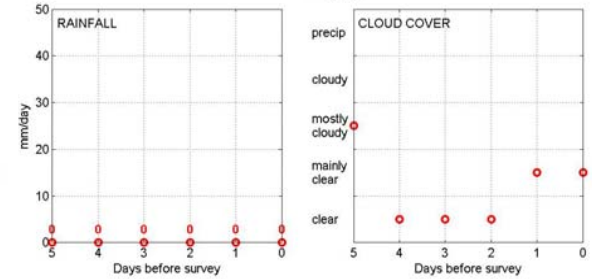
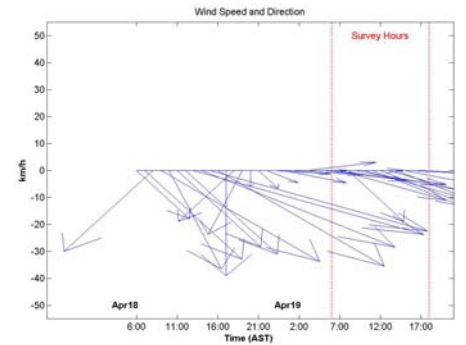
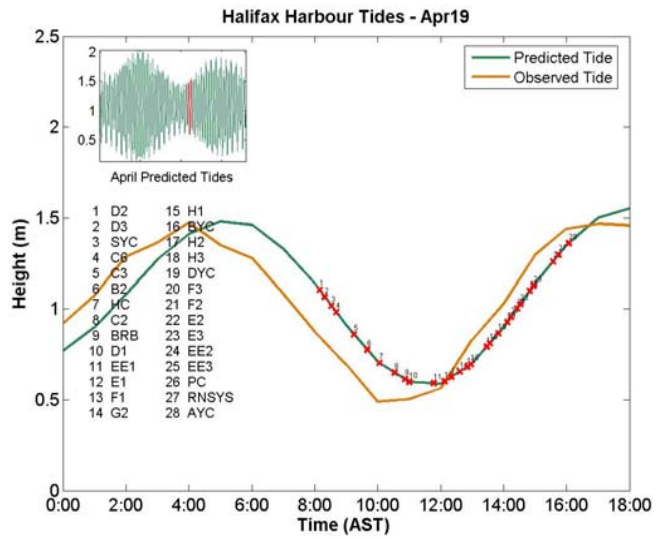
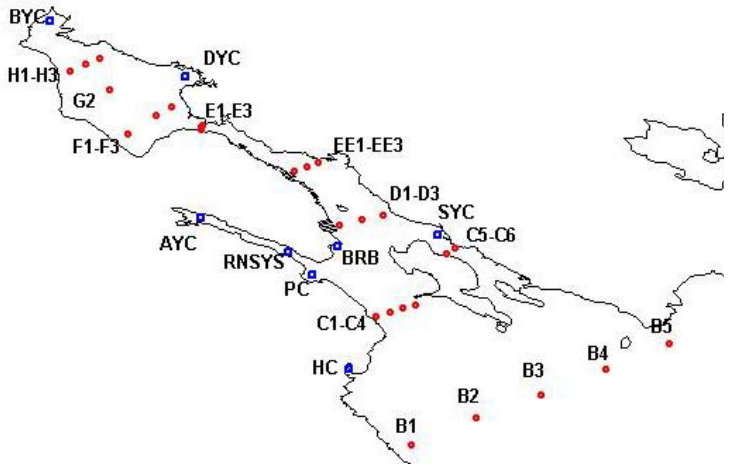
### Comments:

**Dissolved oxygen:** The dissolved oxygen is relatively uniform throughout the Harbour at values of 9.0-10.0 mg/L. The exception is the bottom water of the Basin which remains relatively high and is quite uniform below 40 m at about 8.5 mg/L. There are slight maximums in most profiles which are probably associated with photosynthesis.

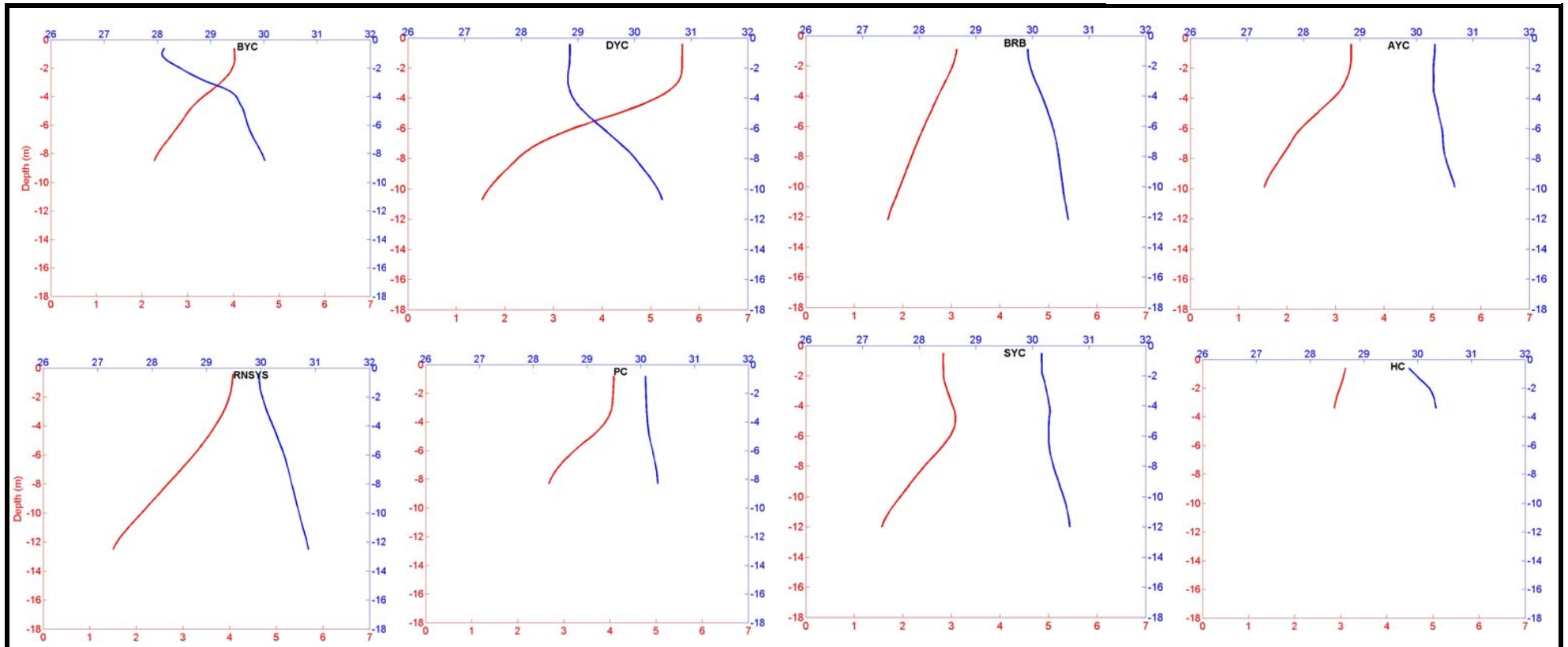
**General:** The Harbour exhibits much less stratification than in the previous week and is essentially well mixed by station B2. The chlorophyll-a concentration is higher in the Basin than in the previous week, with values as high as 35 mg/m<sup>3</sup> (H section). The Chlorophyll-a maximums occur at depths of 12-15 m, which is deeper than the 5-7 m depth previously observed. Chlorophyll-a values further out the harbour remain relatively unchanged from last week. The fecal coliform distribution is concentrated in the inner harbour around sections D, EE and E. Evidence of up-harbour flow of bottom water is much less obvious than last week, though slightly elevated coliform values are observed at the 10m depth at sections G, E and F.



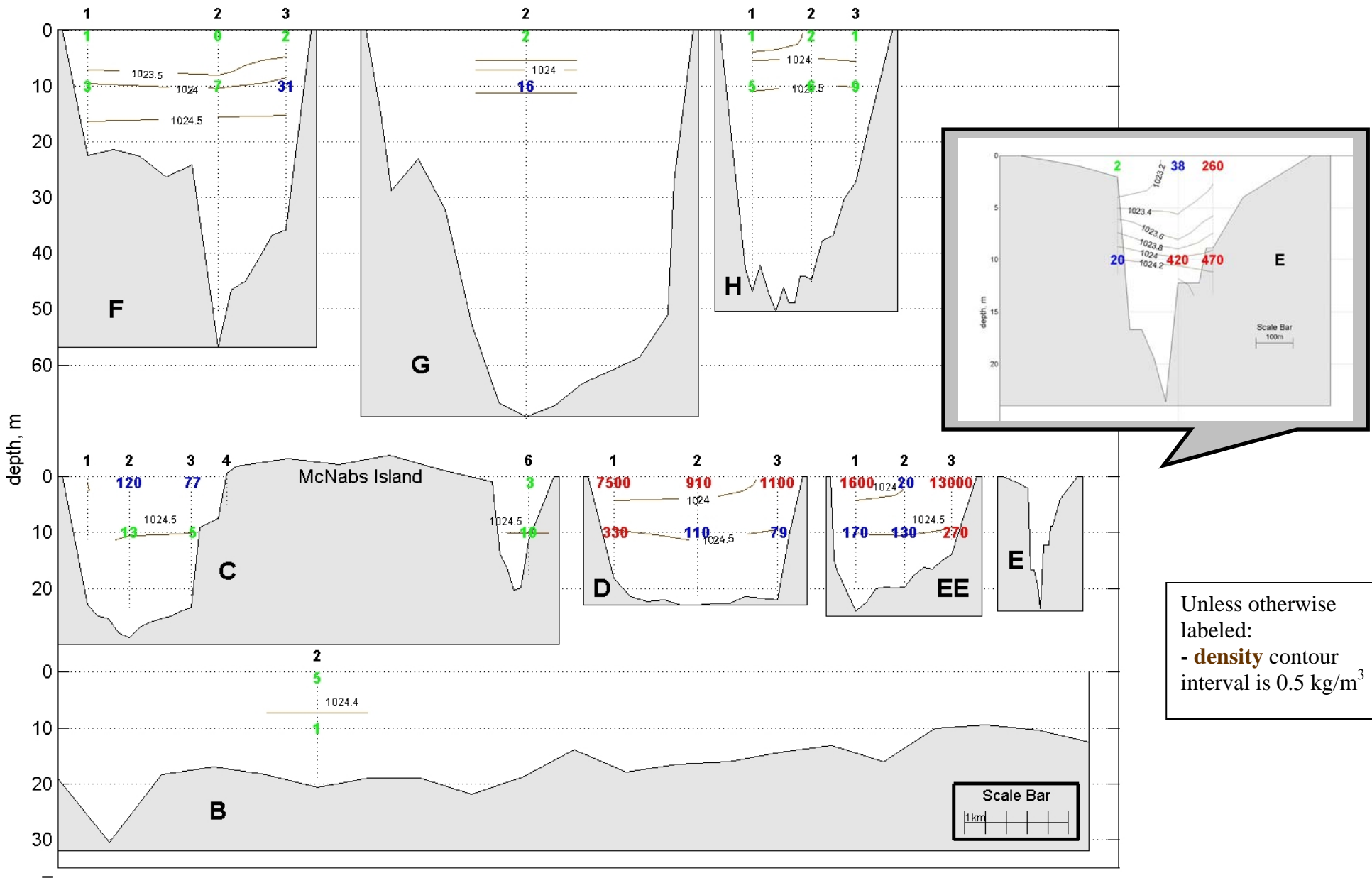
Unless otherwise labeled:  
 - salinity contour interval is 0.2 PSU  
 - temperature contour interval is 1°C.



## Yacht Clubs

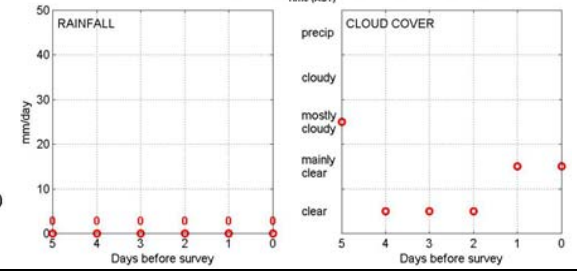
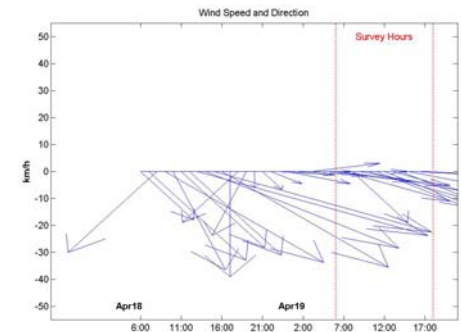
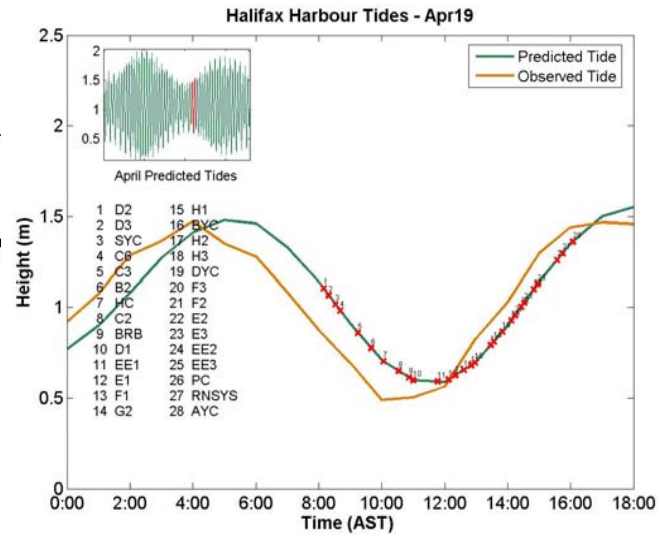
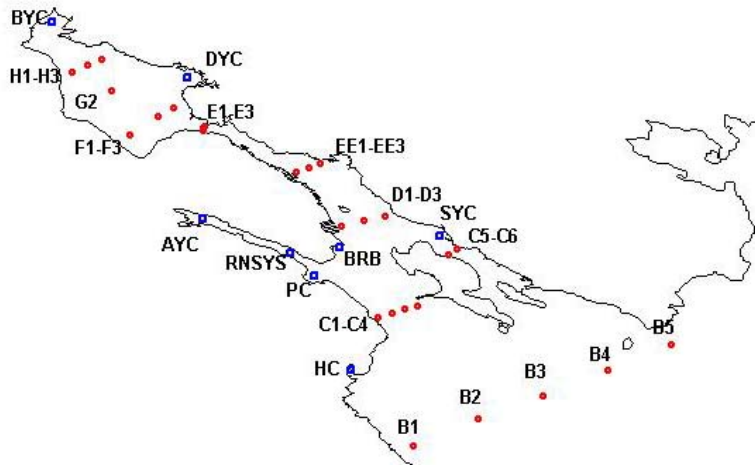


Salinity in PSU      Temperature in °C

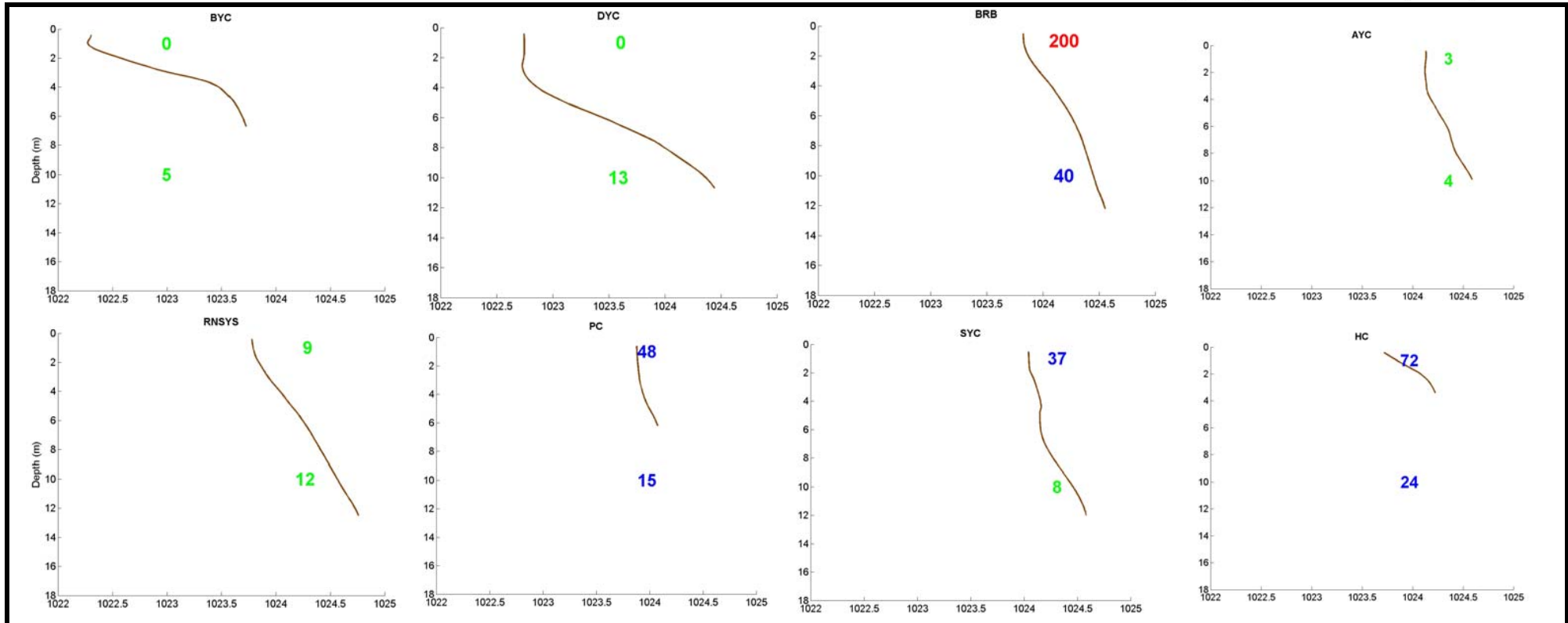


Unless otherwise labeled:  
 - density contour interval is 0.5 kg/m<sup>3</sup>

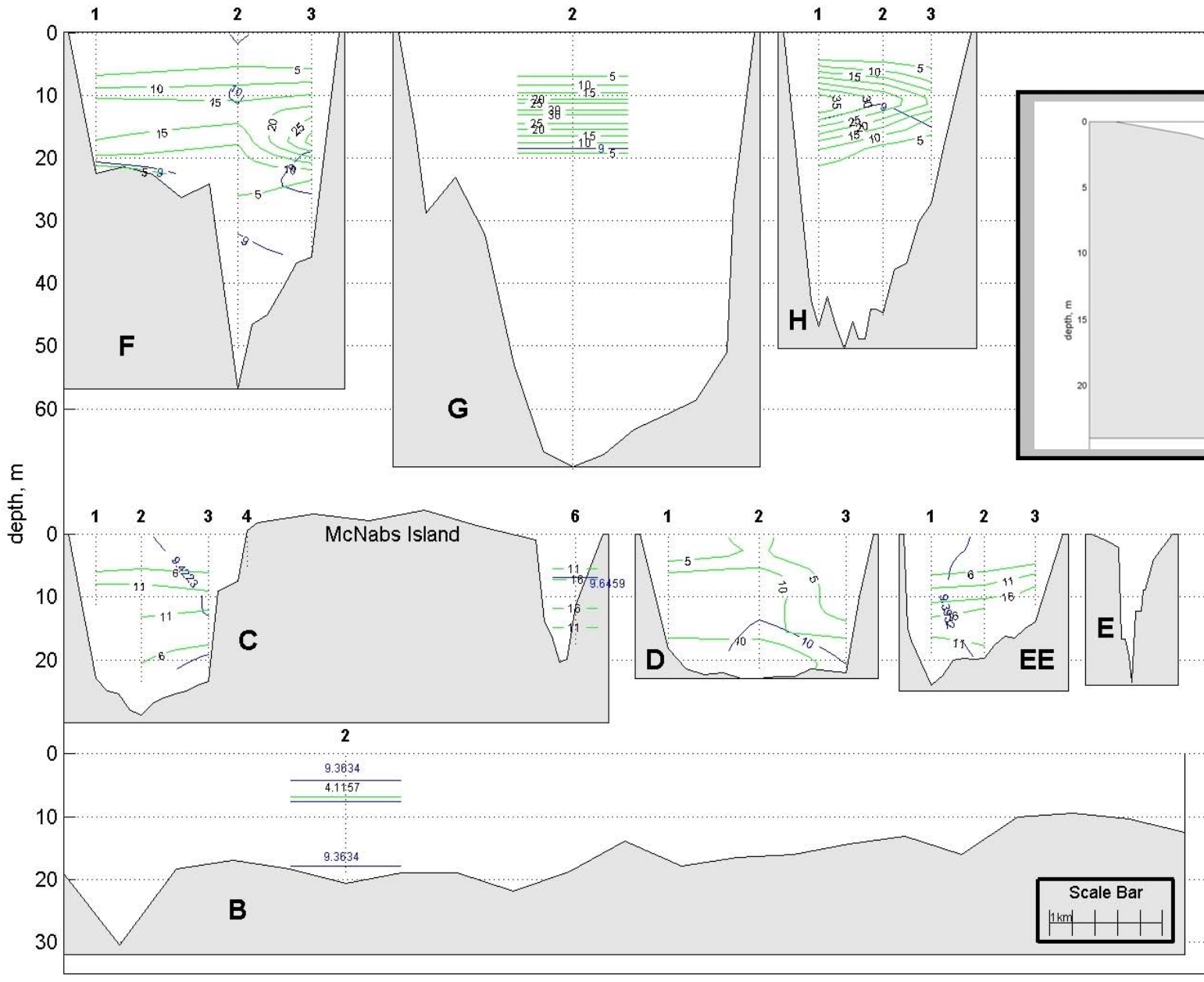
Density in kg/m<sup>3</sup>    Fecal coliform: above swimming limit (200 cfu/100mL)  
 above shellfish limit (14 cfu/100mL)  
 below limits



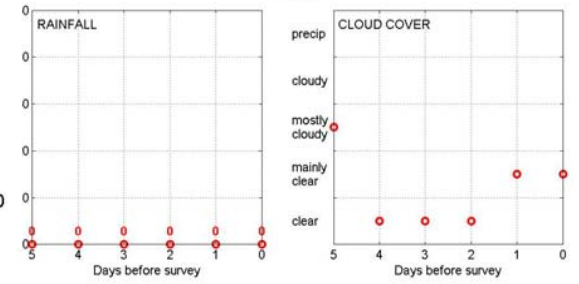
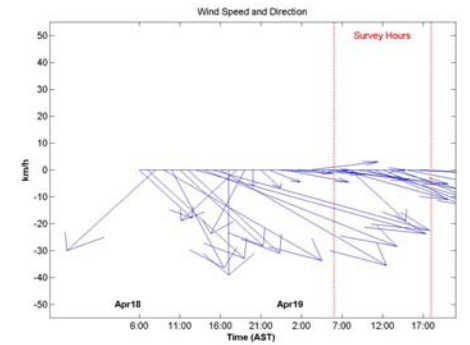
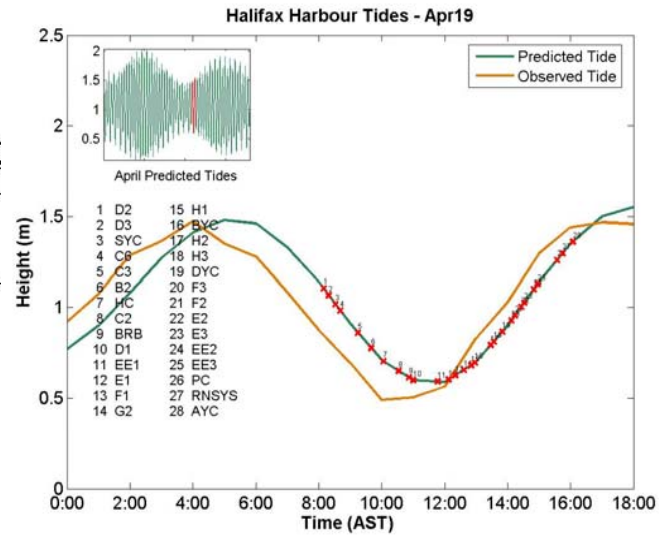
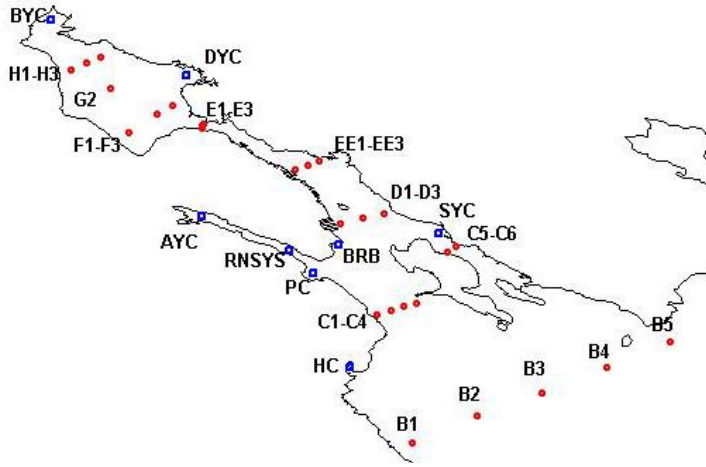
## Yacht Clubs



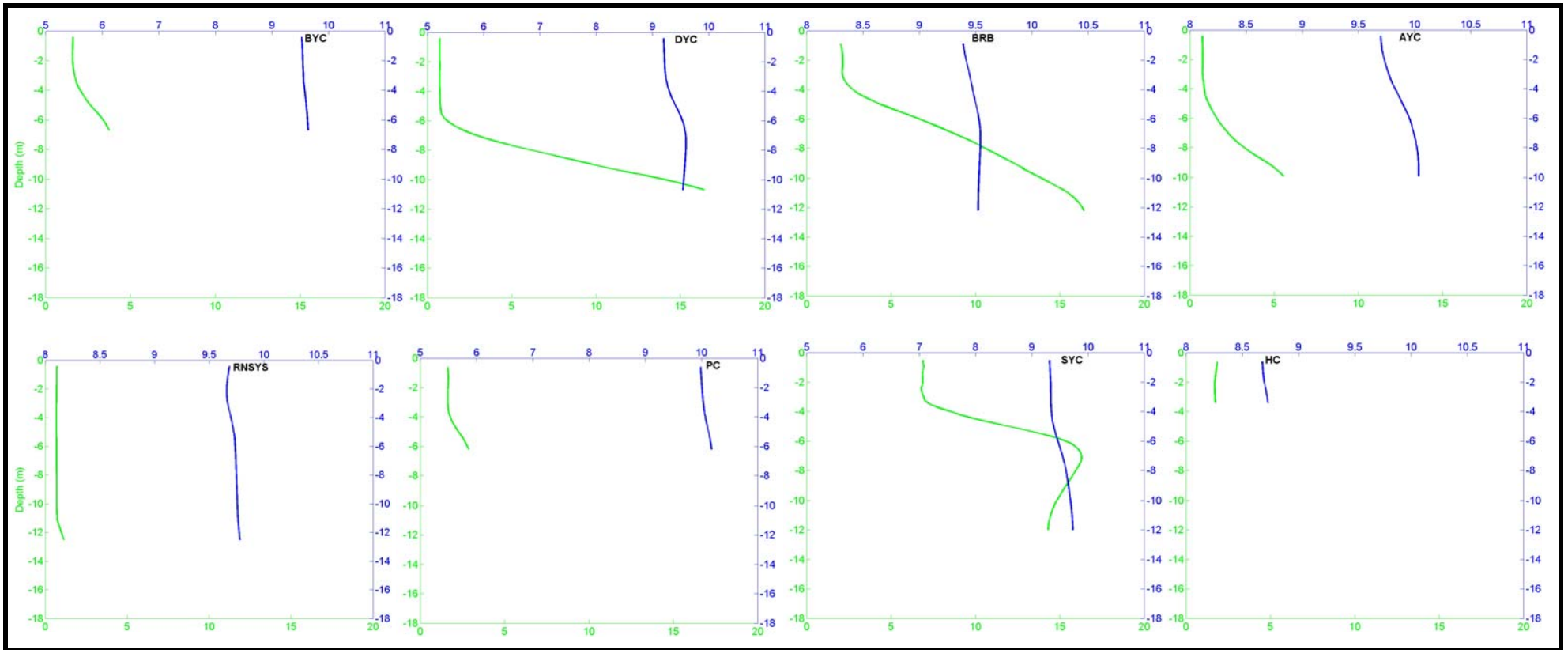
**Density in kg/m<sup>3</sup>**      **Fecal coliform: above swimming limit (200 cfu/100mL)**  
**above shellfish limit (14 cfu/100mL)**  
**below limits**



Unless otherwise labeled:  
 - **dissolved oxygen** contour interval is 1 mg/L  
 - **chlorophyll** contour interval is 5 mg/m<sup>3</sup>.



## Yacht Clubs



DO in mg/L

Chlorophyll in mg/m<sup>3</sup>