

# Halifax Harbour Water Quality Monitoring Project

## Weekly Summary #32

**Survey Date:** 26 Jan 05  
**Nature of Survey:** Coliform Survey  
**Report File (this document):** HHWQMP\_report032\_050126.doc  
**Data File:** HHWQMP\_data0032\_050126.xls

**Data Return:**  
 Profile: 87%  
 Bacteria: 86%  
 Chemical: na  
**Overall: 87%**

**Sample Notes:**

Sites HC, BYC and DYC were not sampled due to ice

A CTD profile was taken at alternate site BYC-Alt at ice edge. Coordinates: 44.7118 N, 63.6602 W

Site B2 not sampled, -20C + winds, icing conditions in approaches

Site D1 profile data was truncated on the instrument - no explanation

**QA/QC samples:**

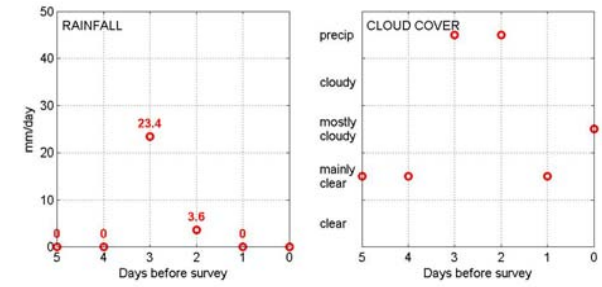
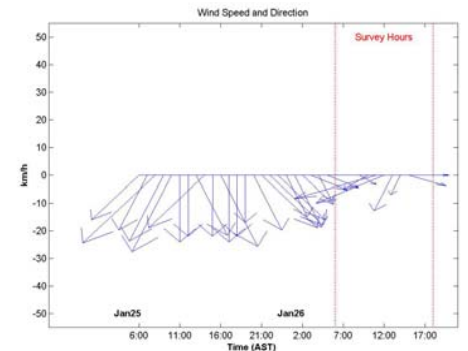
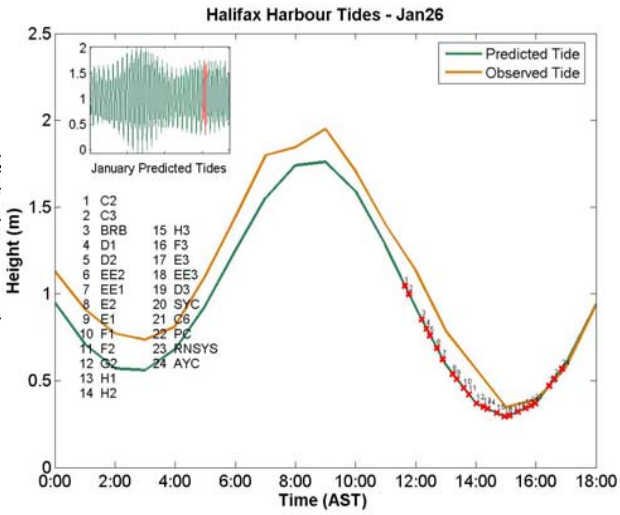
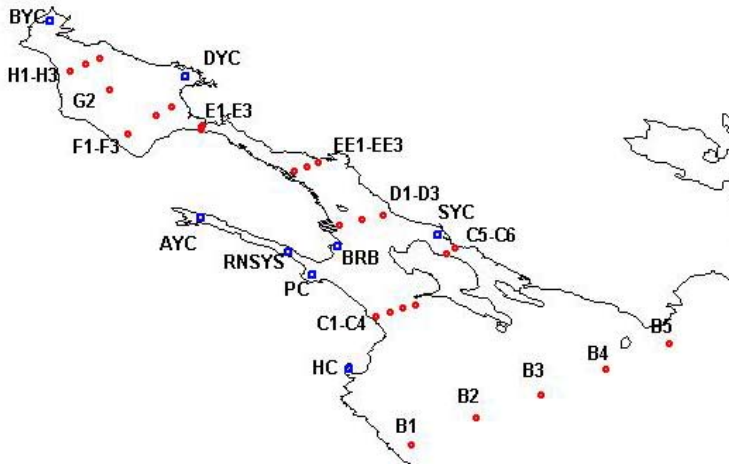
**Fecal Coliform (CFU/100ml)**

Site	D1-10m	E2-1m	F2-1m	H2-10m	PC-10m
Reference	600	16	13	21	140
QA/QC	380	18	12	28	180

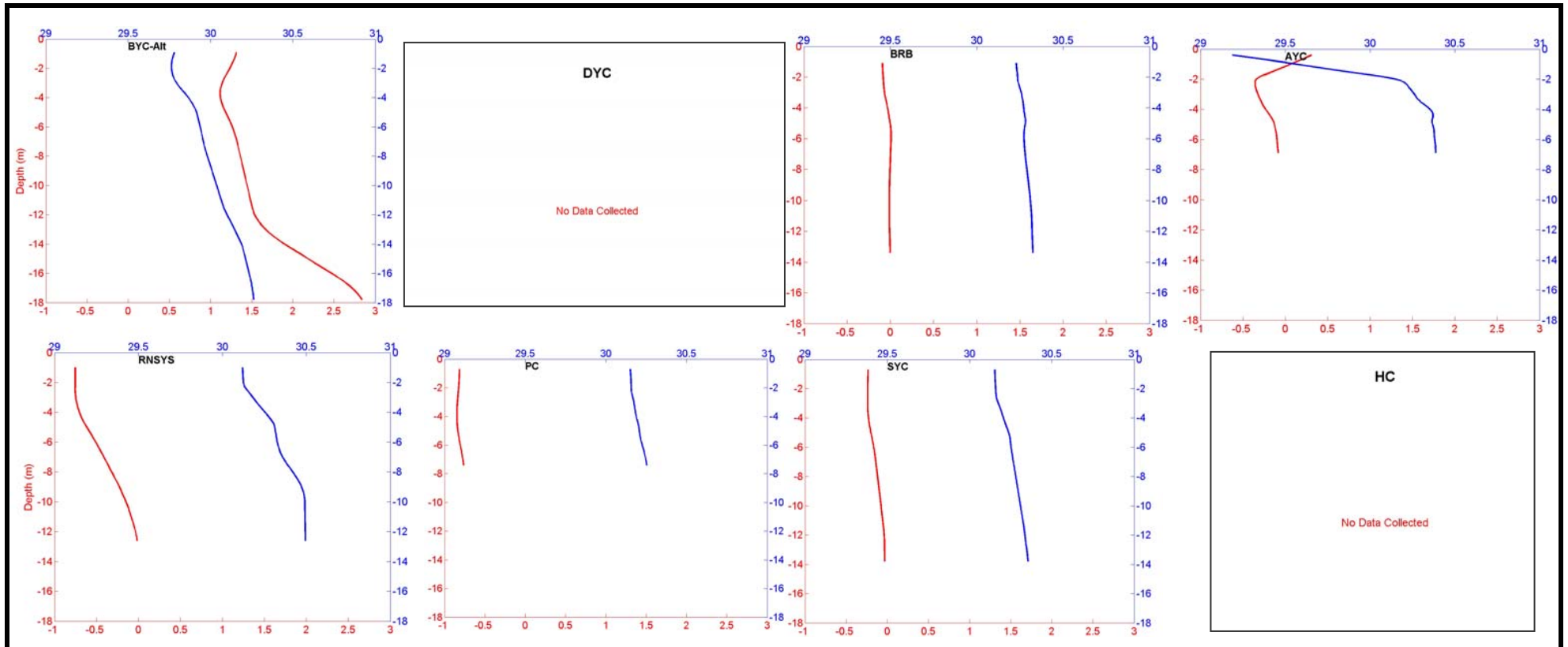
**Comments:**

1. Dissolved Oxygen: The dissolved oxygen in the surface water is uniformly high, > 10.5 mg/l. The dissolved oxygen continues to drop in the deepest waters of Bedford Basin (~ 0.86 mg/l). The Basin bottom water (>38 m) represents the only guideline exceedance in the harbour (< 7 mg/L). It appears that there may be a displacement of the bottom waters upslope toward the Narrows occurring, as the minimum dissolved oxygen at site F2 (55 m) is equal to the minimum DO at site G2 (70 m). This is corroborated by the salinity and temperature data.
2. The surface water in the Harbour is quite vertically uniform in all parameter profiles. The fecal coliform has a very pronounced distribution with unusually high values in the Inner Harbour (transects EE and D) and unusually low values elsewhere. This may indicate a period of low Harbour flushing, which allows contaminants to build up near their source.



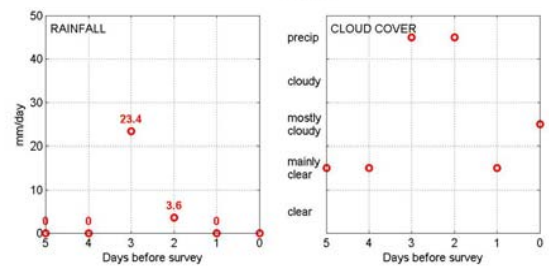
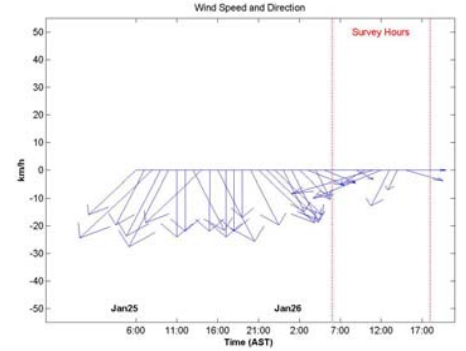
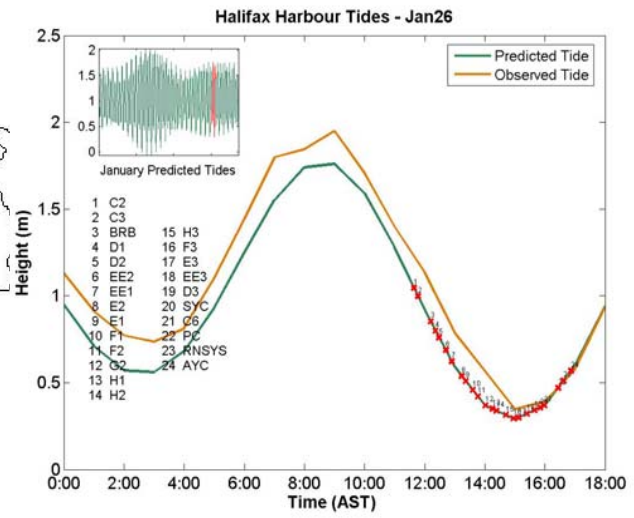
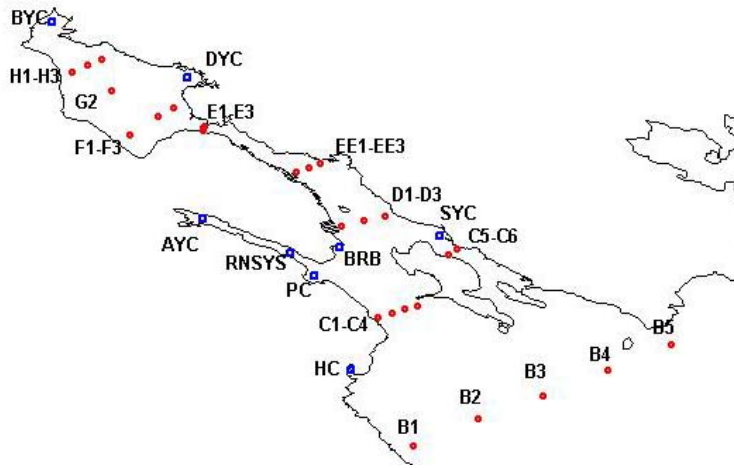


## Yacht Clubs

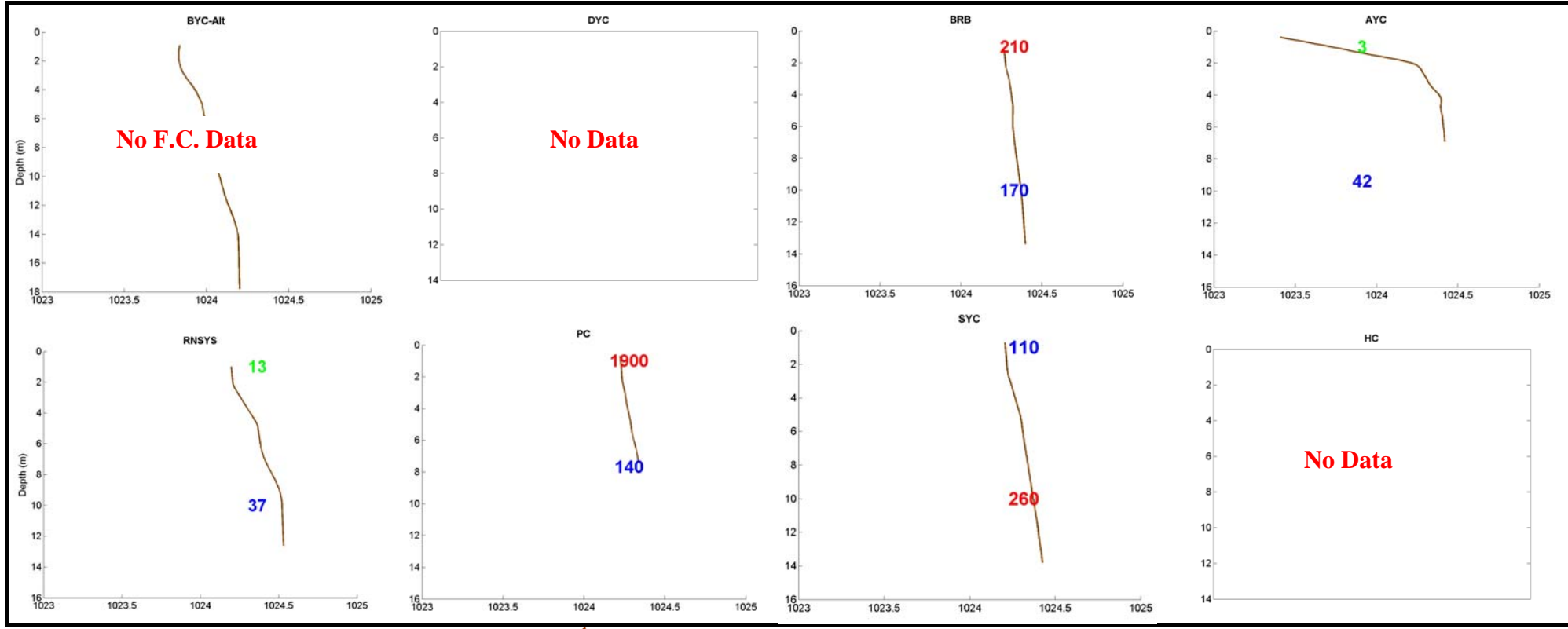


Salinity in PSU      Temperature in °C

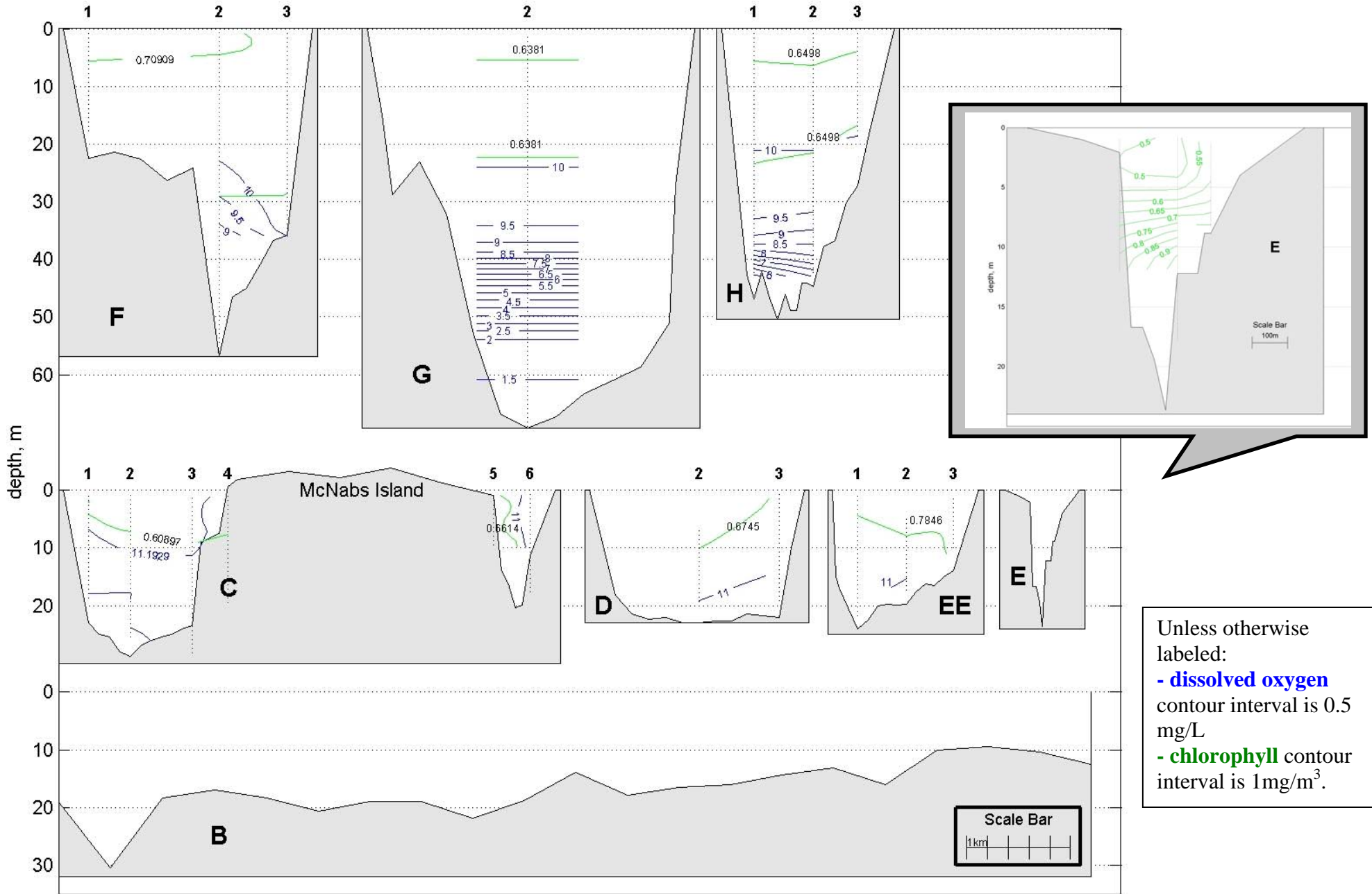


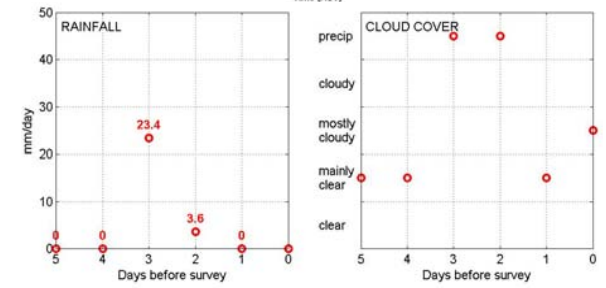
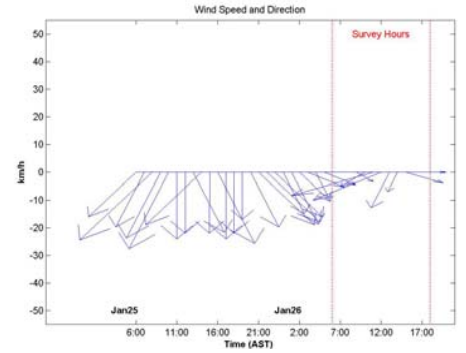
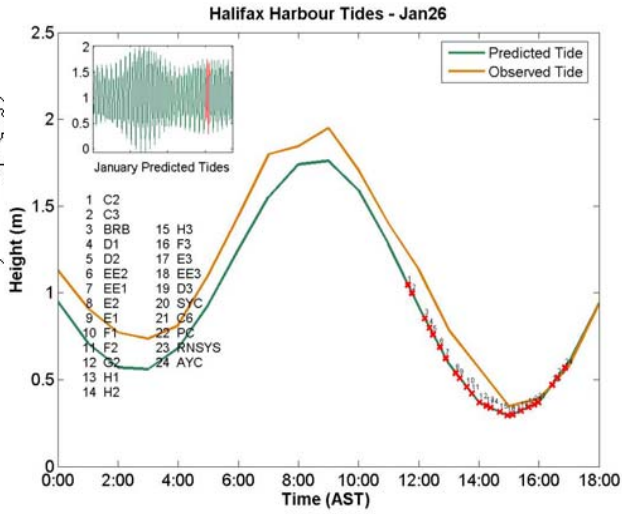
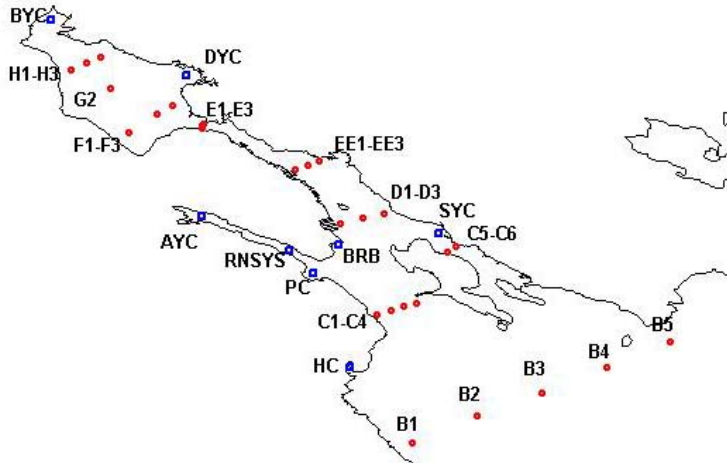


**Yacht Clubs**

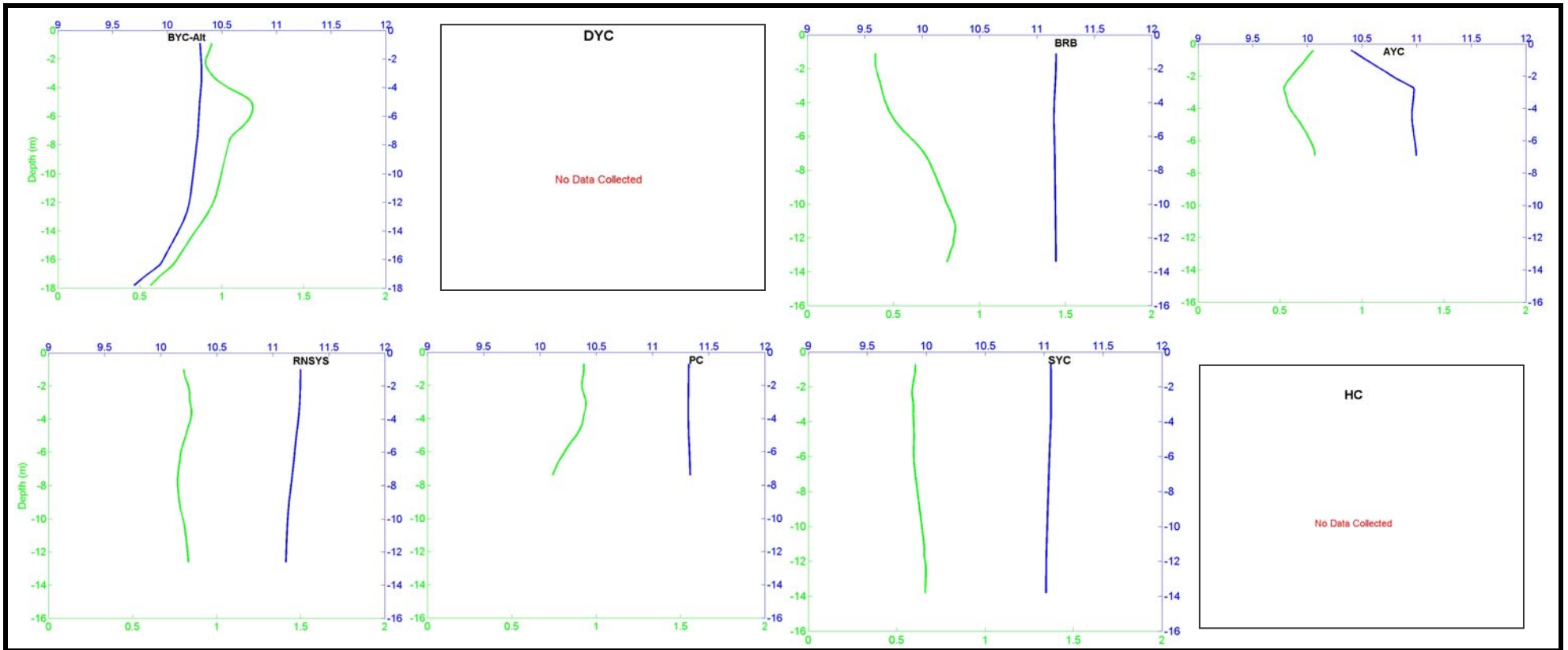


**Density in kg/m<sup>3</sup>**      **Fecal coliform: above swimming limit (200 cfu/100mL)**  
**above shellfish limit (14 cfu/100mL)**  
**below limits**





## Yacht Clubs



DO in mg/L

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