

Halifax Harbour Water Quality Monitoring Project Weekly Summary #36

Survey Date: 22 Feb 05
Nature of Survey: Coliform Survey
Report File (this document): HHWQMP_report036_050222.doc
Data File: HHWQMP_data036_050222.xls

Data Return:
 Profile: 81%
 Bacteria: 79%
 Chemical: na
Overall: 80%

Sample Notes:

No water samples were taken at AYC, BYC, DYC, F1, H1, and HC due to ice

No CTD profiles were taken at AYC, RNSYS, BYC, DYC, and HC due to ice

CTD profiles were taken at alternate sites, at edge of ice, for sites F1 (44.6802 N, 63.6376 W) and H1 (44.7016 N, 63.6556 W)

At site PC the profile was started before the instrument pump turned on, and so the data are unreliable.

QA/QC samples:

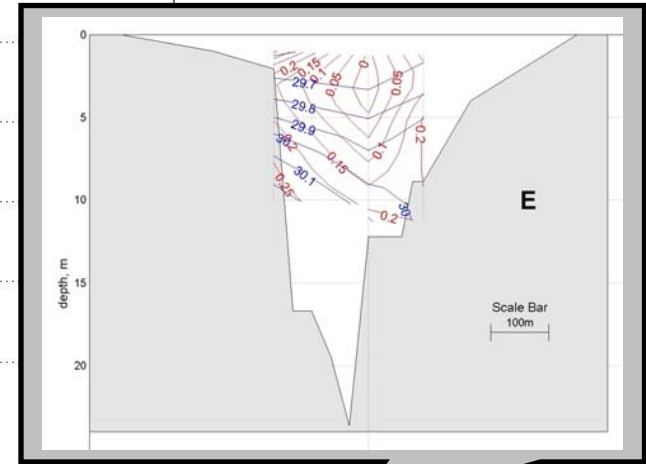
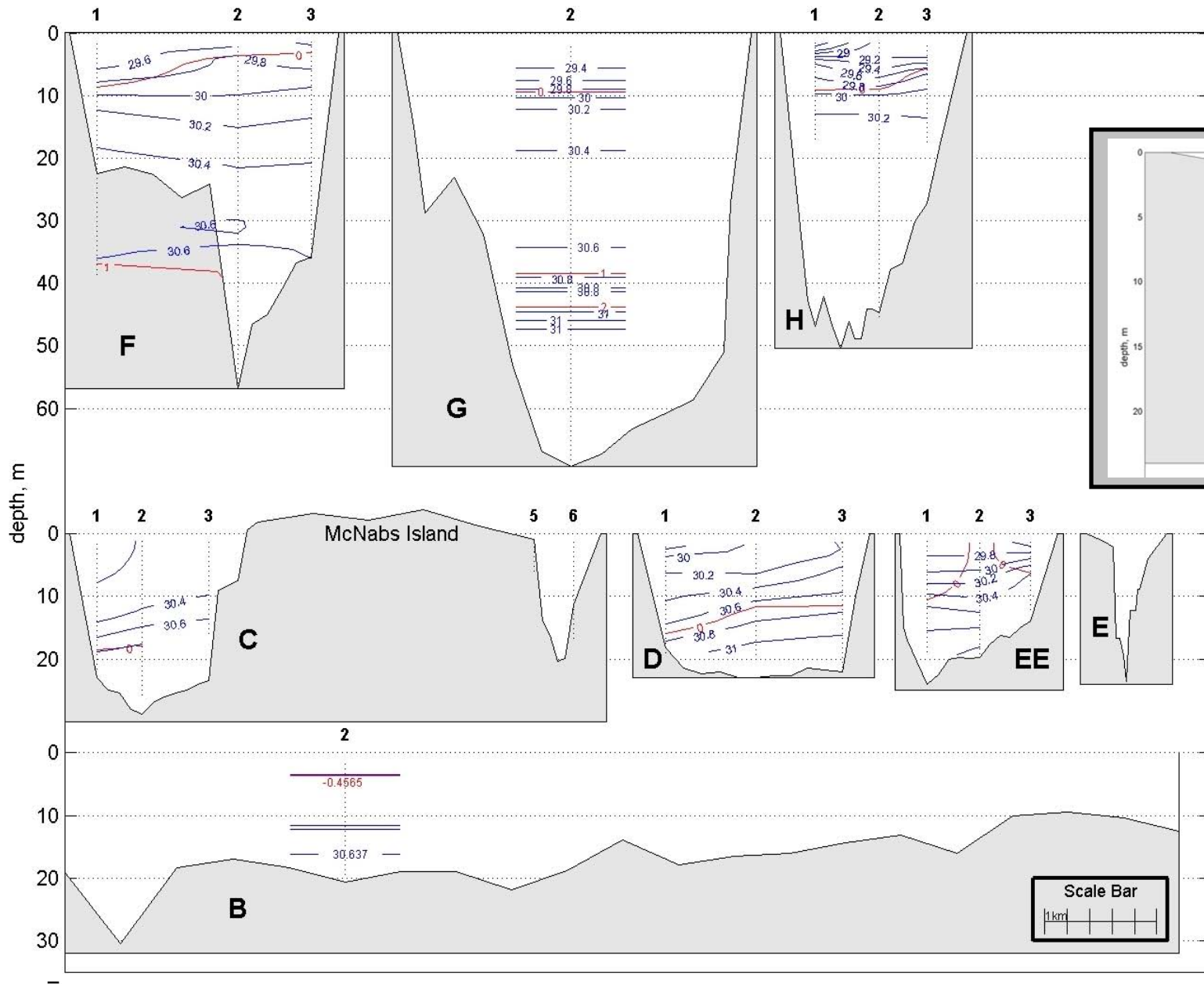
Fecal Coliform (CFU/100ml)

Site	E3-1m	G2-10m	BRB-1m	D1-1m
Reference	420	350	120	490
QA/QC	680	18	190	2100

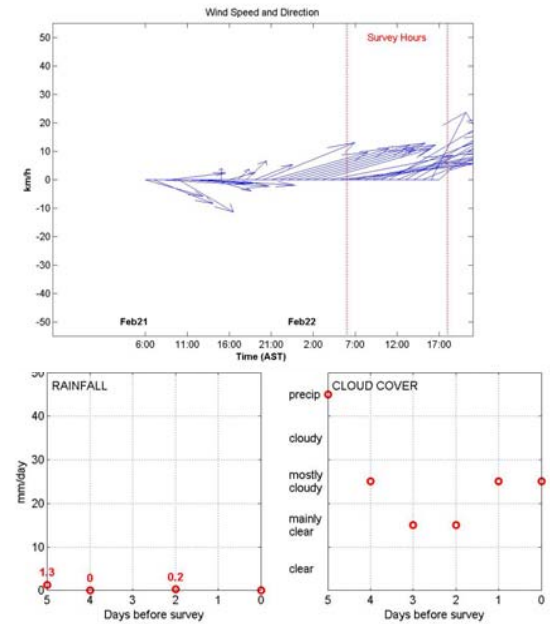
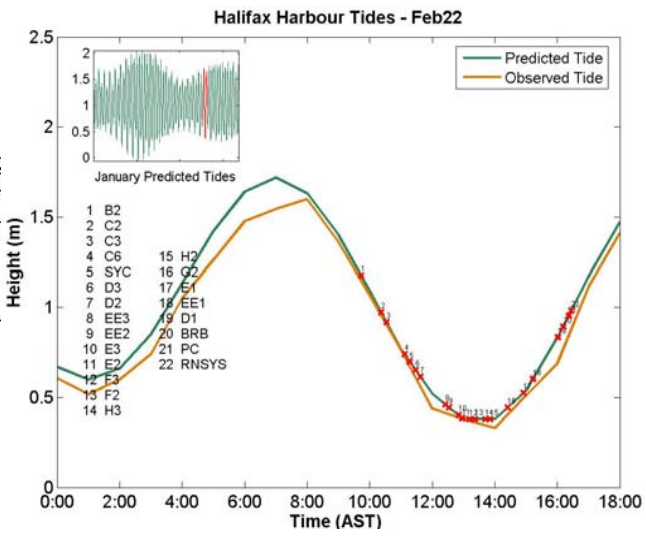
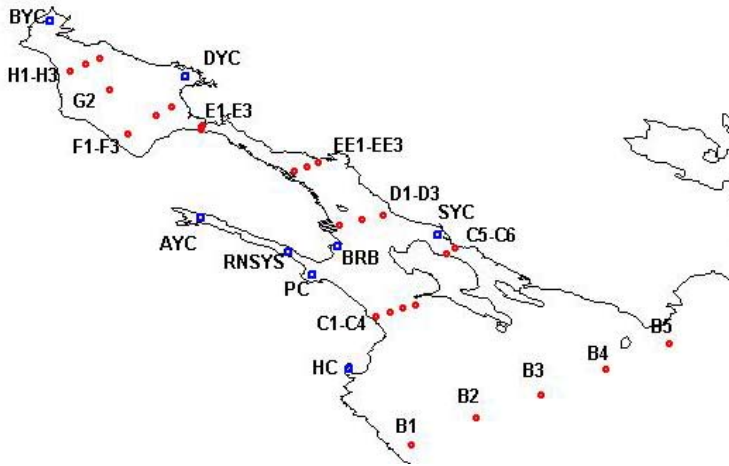
Comments:

Dissolved Oxygen: All values are systematically lower than previous values. All surface water (<20 m) has DO values ranging from approximately 8.0 to 8.5 mg/L. These values do not exceed any guidelines. Though these values are somewhat lower than previously observed, there is nothing in the data to suggest that this is due to instrument malfunction. The only guideline exceeded is as usual in the bottom water of Bedford Basin which exhibits a value of approximately 1.2 mg/L at the lowest point in the Basin (70M).

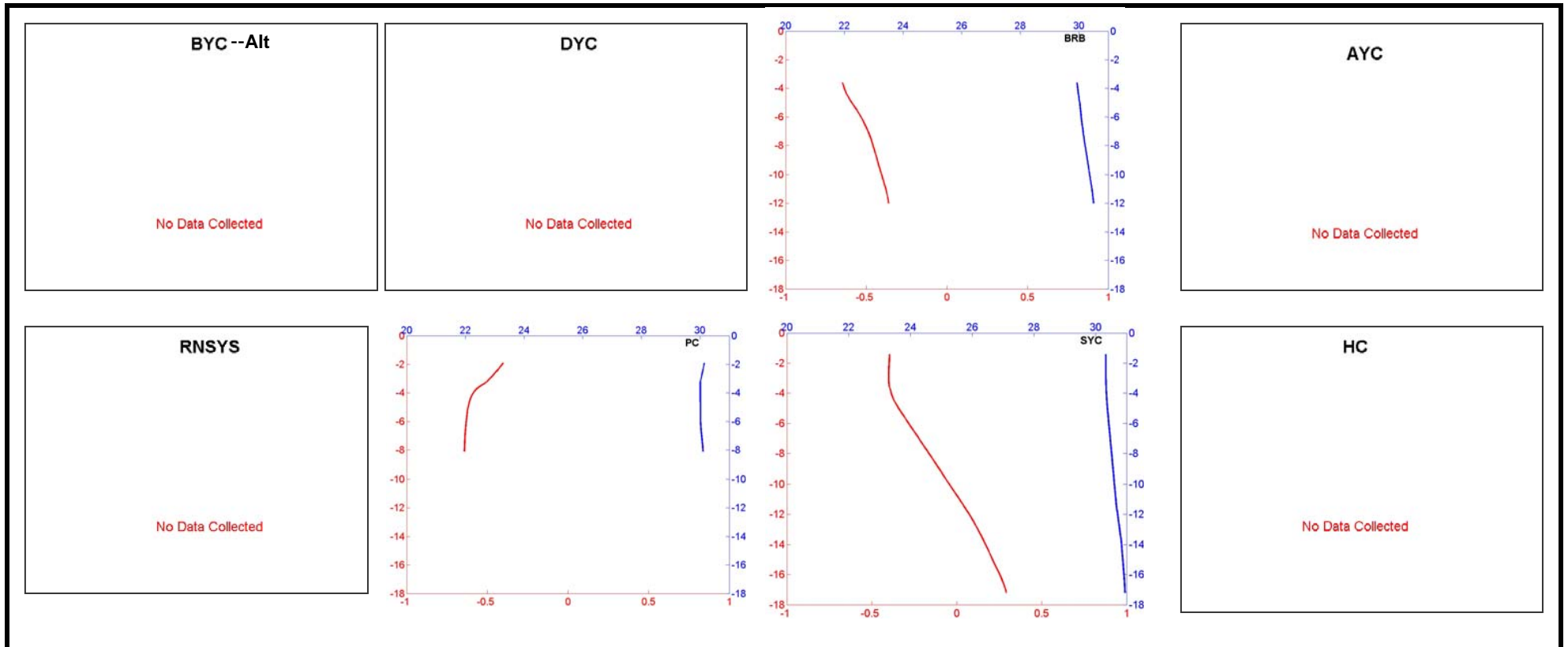
General: There is definite salinity (density) stratification in the inner harbour. The structure in the outer harbour, as represented by site B2, however is nearly perfectly uniform. The maximum coliform values are somewhat lower in magnitude and seemingly more dispersed than in the previous few weeks.



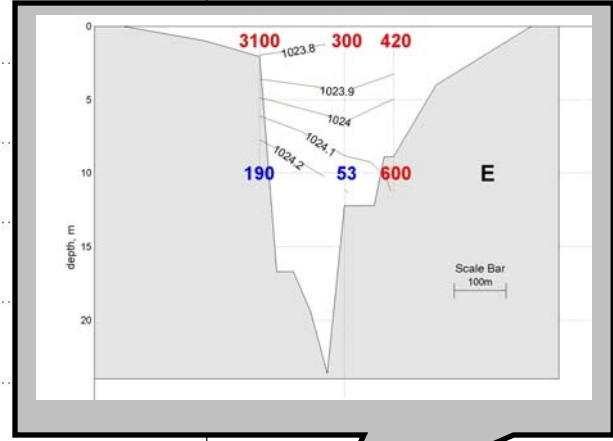
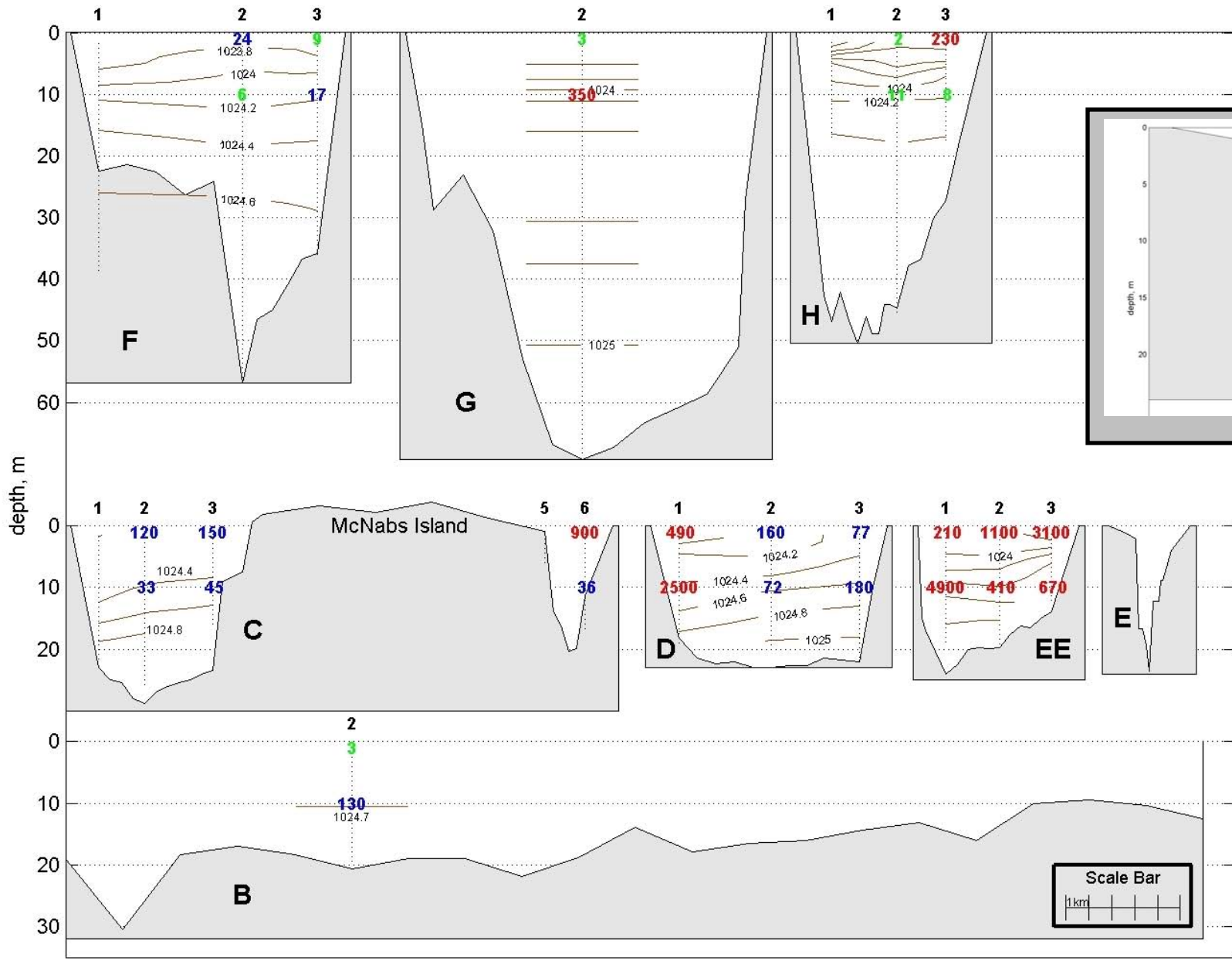
Unless otherwise labeled:
 - **salinity** contour interval is 0.2 PSU
 - **temperature** contour interval is 1°C.



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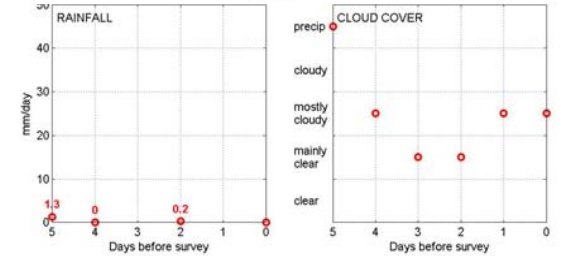
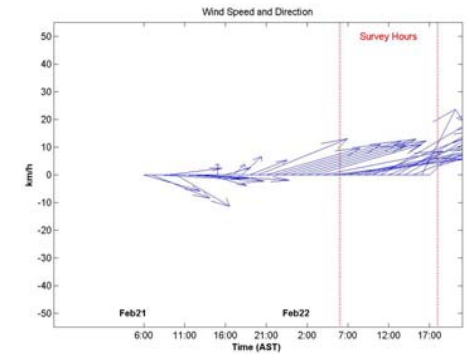
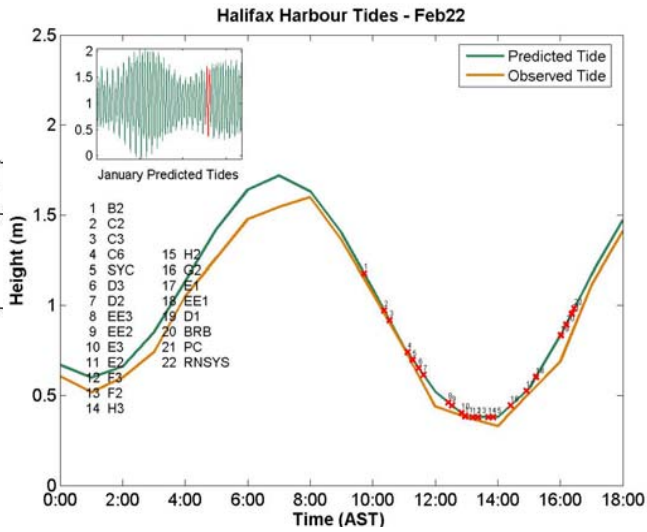
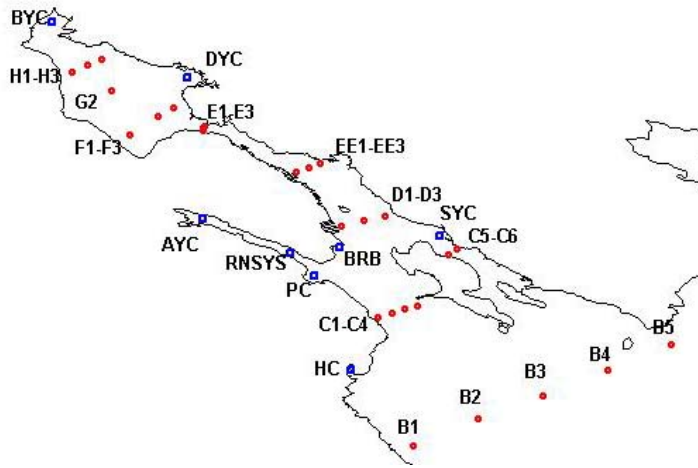


Salinity in PSU Temperature in °C

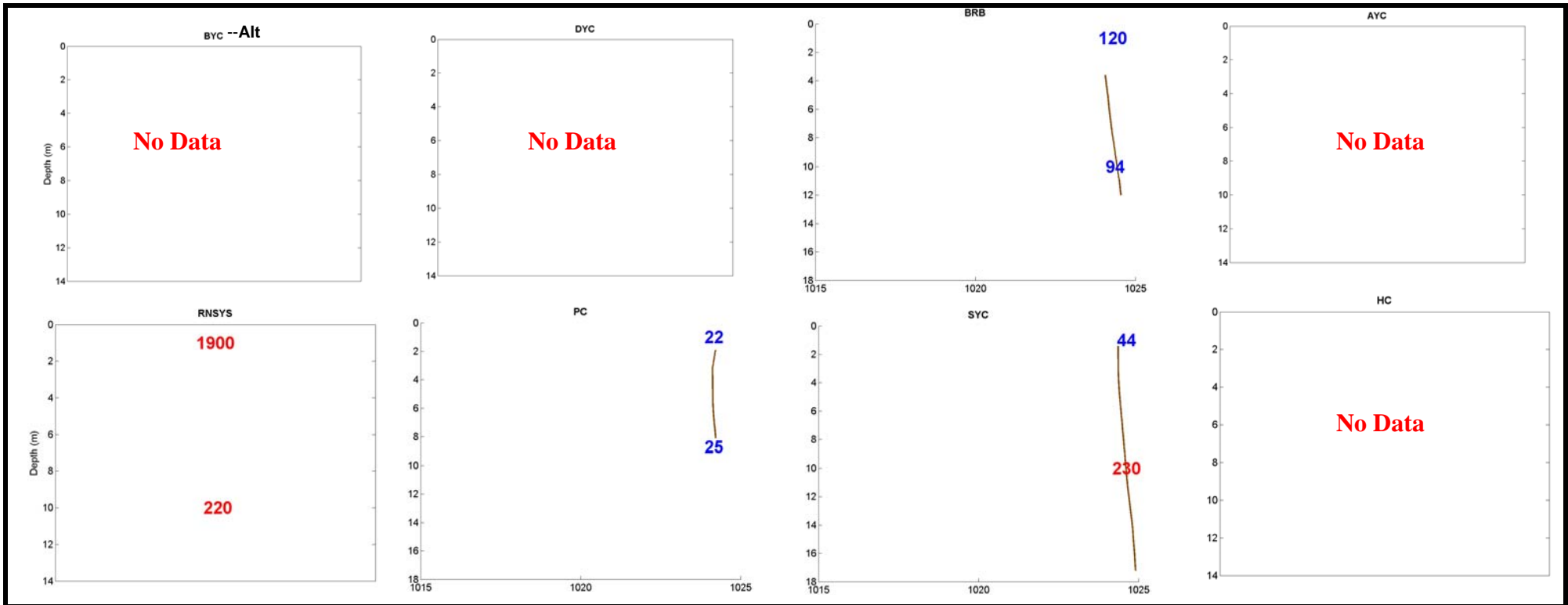


Unless otherwise labeled:
 - density contour interval is 0.2 kg/m³

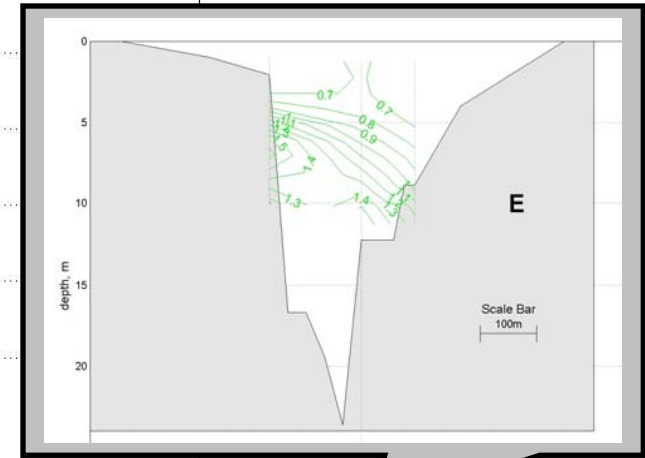
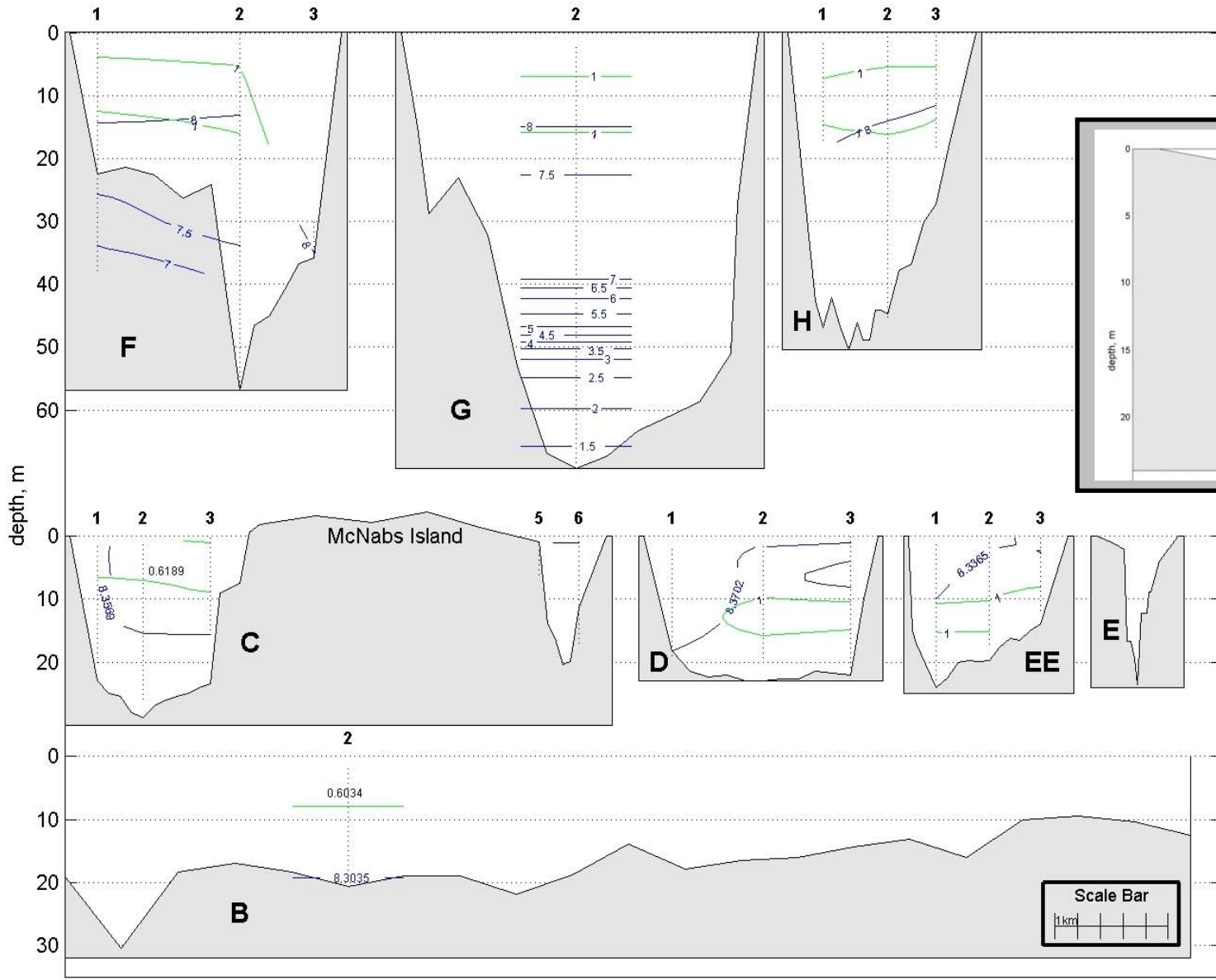
Density in kg/m³ Fecal coliform: above swimming limit (200 cfu/100mL)
 above shellfish limit (14 cfu/100mL)
 below limits



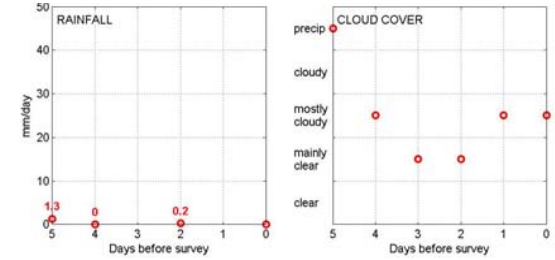
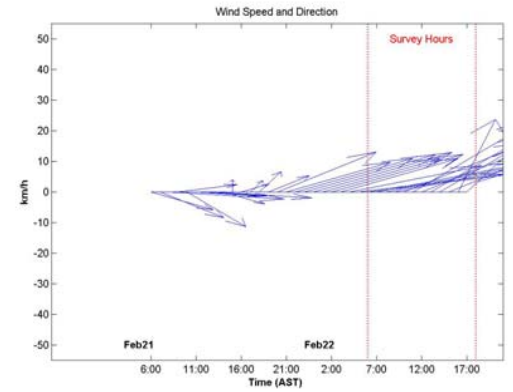
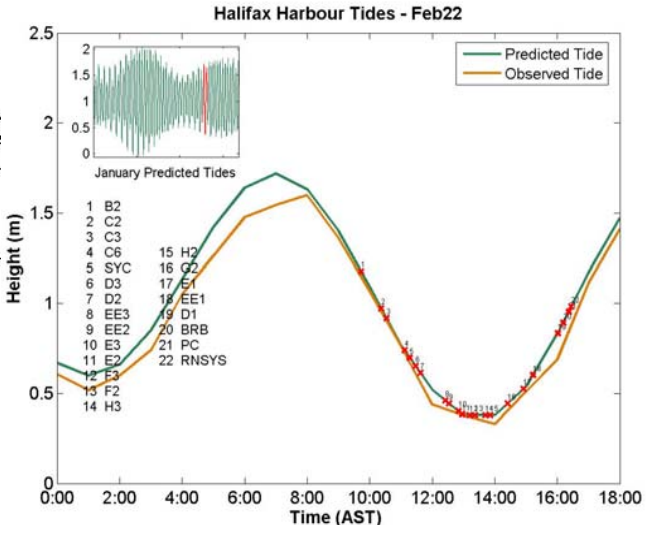
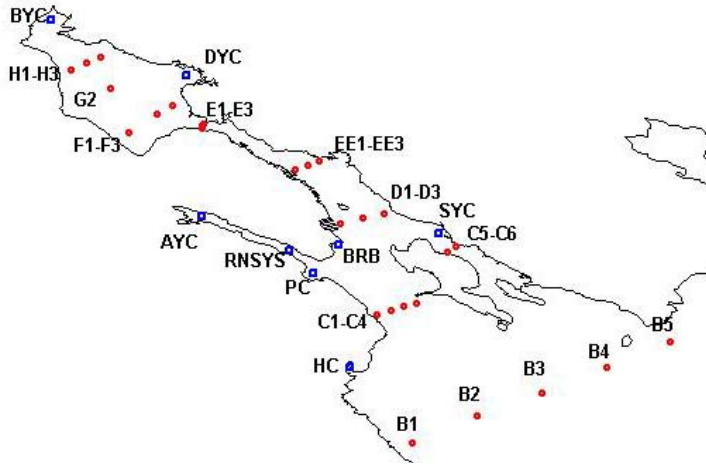
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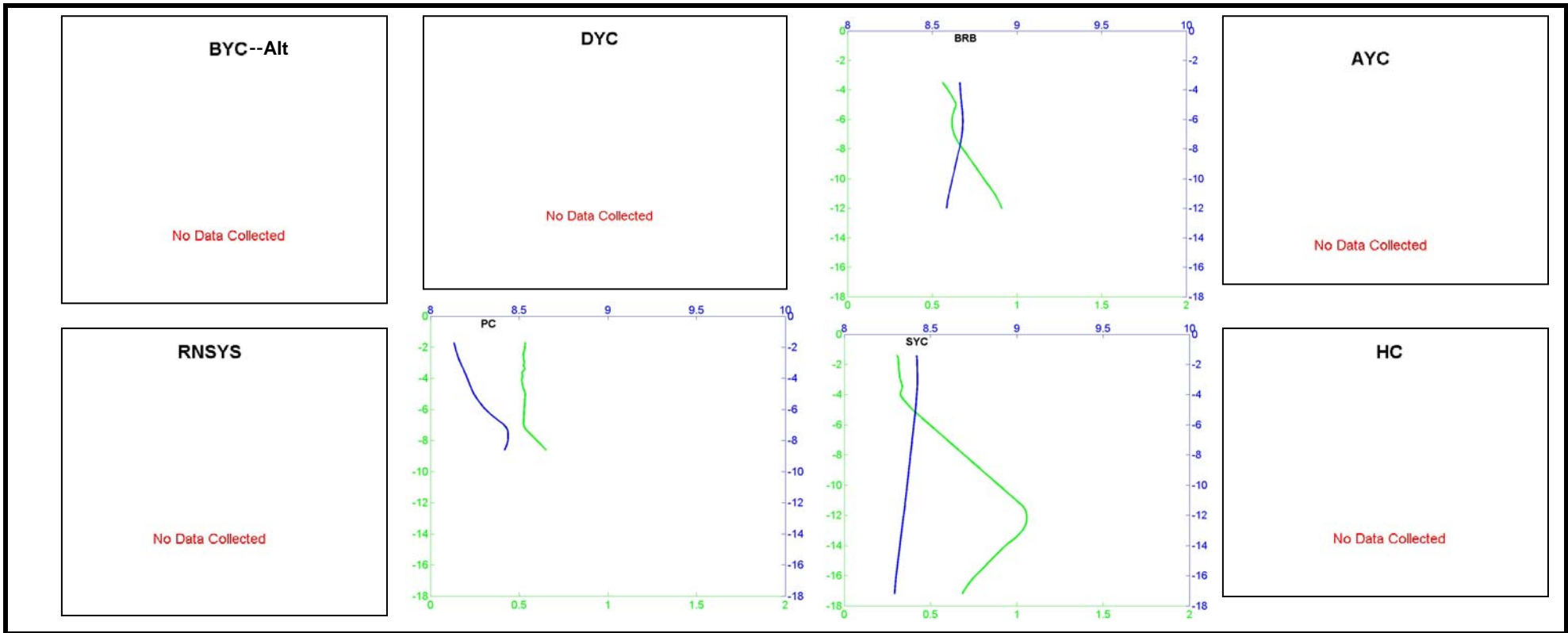
Density in kg/m³ **Fecal coliform: above swimming limit (200 cfu/100mL)**
above shellfish limit (14 cfu/100mL)
 below limits



Unless otherwise labeled:
 - **dissolved oxygen** contour interval is 0.5 mg/L
 - **chlorophyll** contour interval is 1mg/m³.



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DO in mg/L Chlorophyll in mg/m³