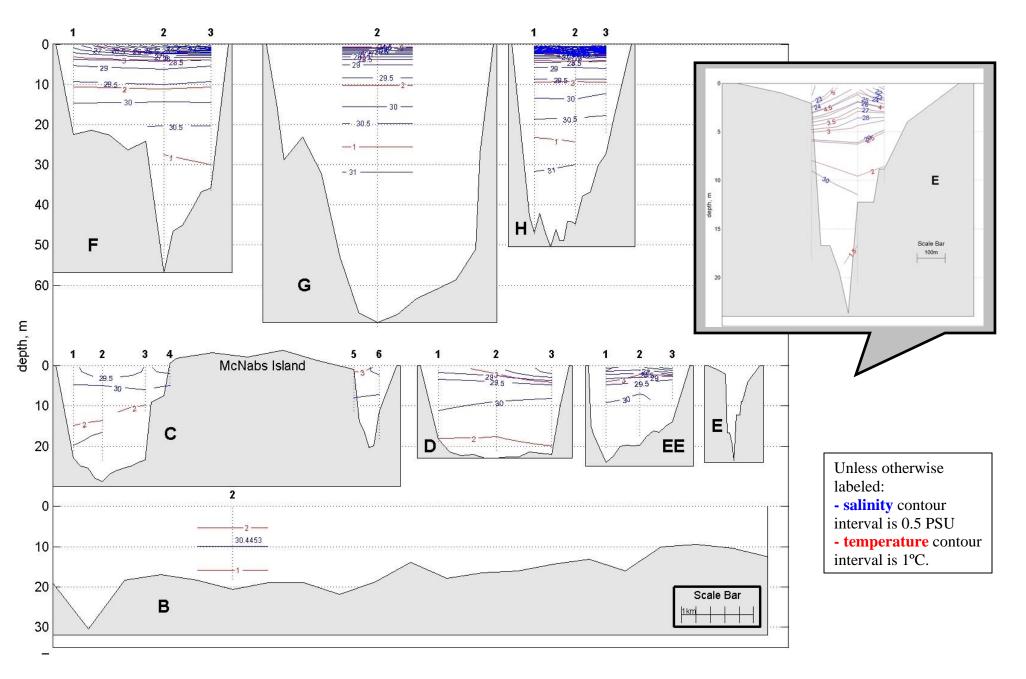
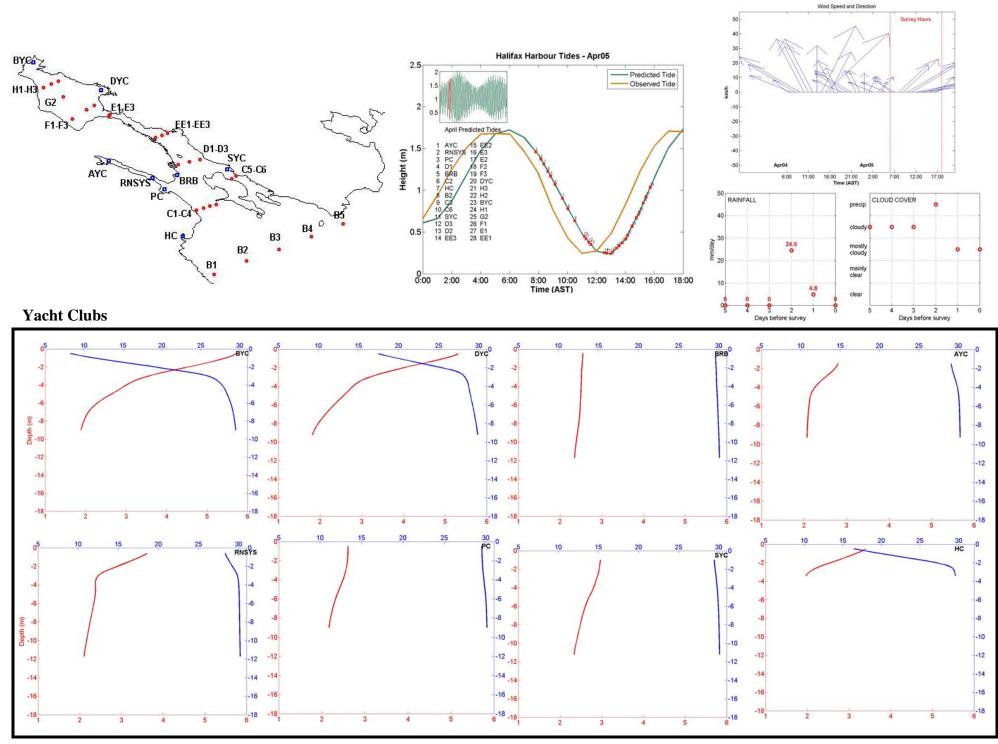
Halifax Harbour Water Quality Monitoring Project Weekly Report #42

throughout.

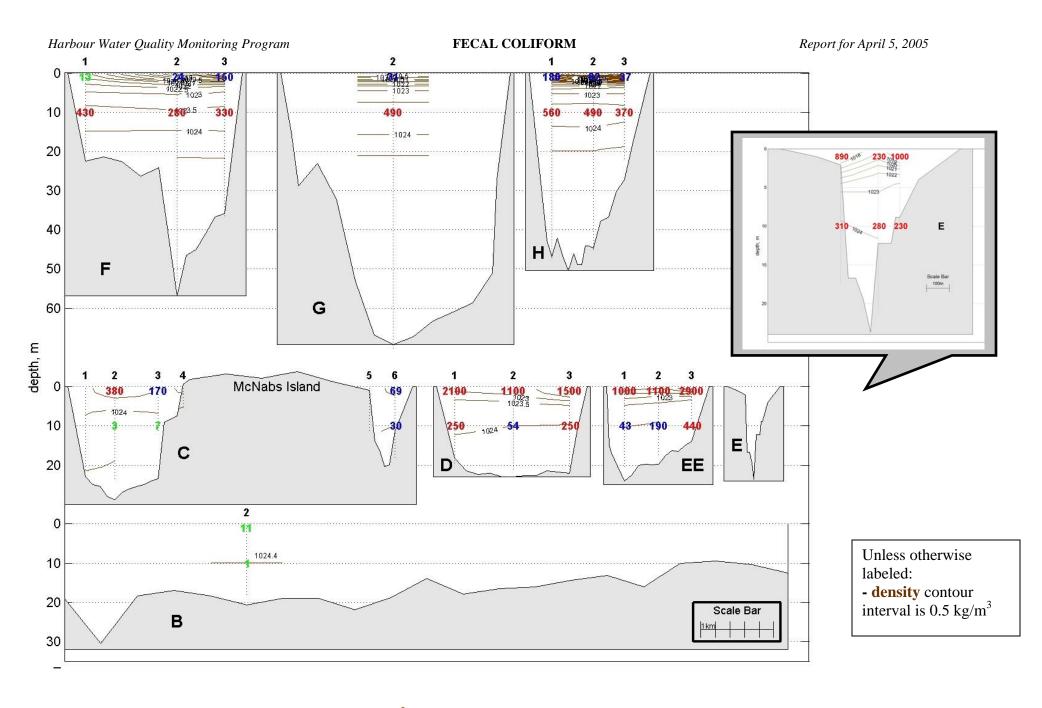
The fecal coliform distribution seems to reflect a strong estuarine circulation in the Basin, consistent with the strong stratification, with high values in the lower samples

Survey Date: Nature of Survey:			05 April Coliforn	2005 n Survey	Comments:		
	•		Comon	li Suivey	Dissolved Owners The dissolved owners profile measurements indicate that surface		
Report Fil			art042_0504	05 da a	Dissolved Oxygen: The dissolved oxygen profile measurements indicate that surface		
HHWQMP_report042_050405.docData File:HHWQMP_data042_050405.xls					water values are somewhat lower than saturation, but almost all are still above applicable guidelines. The values are consistent throughout the harbour at 8-9		
Data Retu	rn •				mg/L. At many sites there is a small maximum which seems to correspond to a chlorophyll-a maximum. The sole site where the DO is below the guideline is at site		
	rofile:	100%			B2, where a minimum value of 7.9 mg/L (guideline SA, 8.0 mg/L) is measured.		
Bacteria: 100%					Overall the DO values seem somewhat low, however all data is internally consistent		
Chemical: na					and there is no indication of instrument malfunction. This continues to be		
	verall:	<u> </u>			investigated. In Bedford Basin the most oxygen rich water (> 10 mg/L) occurs at		
Ŭ	verun.	10070			approximately 60m. There is a minimum ($< 8 \text{ mg/l}$) at approximately 40 m. This		
Sample Notes:					minimum is likely a relict of the recent intrusion into the Basin.		
na					Chlorophyll a: The spring phytoplankton bloom continues. Profile maximums occur throughout the barbour et a death of americanization 4 – 8 m. The maximum values		
					throughout the harbour at a depth of approximately $4 - 8$ m. The maximum values		
QA/QC samples:					(>40 mg/L) occur along the western side of the Basin (sites F1 and H1). In the inner		
Fecal Coli	form (CFU]/ 100ml)			Harbour, the profile maximums are approximately twice (14-19 mg/L) what they were last week.		
Site	C2-1m	C6-1m	E3-10m	E1-10m			
Reference	380	69	230	310	General: There appears to be a large freshwater influx into the Harbour. The Basin,		
QA/QC	550	32	190	300	including the Narrows, is very stratified, with a surface layer of fresh warm water.		
					At section H the surface water is 12.5 psu and nearly 6° C. Further out of the harbour		
					the stratification is not remarkable and the outer Harbour (B2) remains well mixed.		

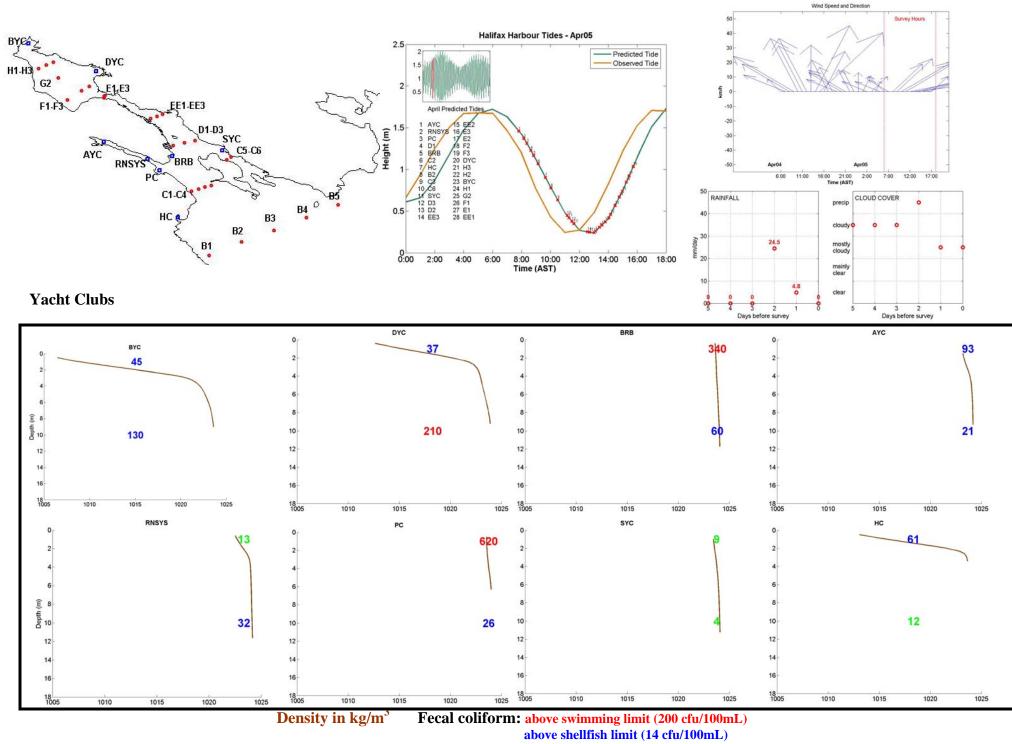




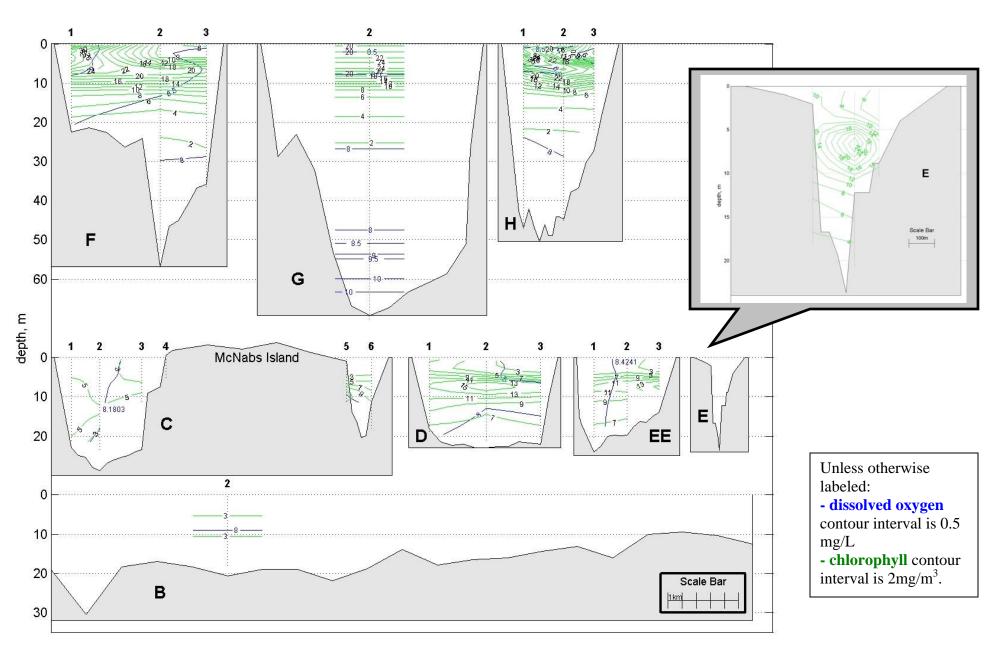
Salinity in PSU Temperature in °C

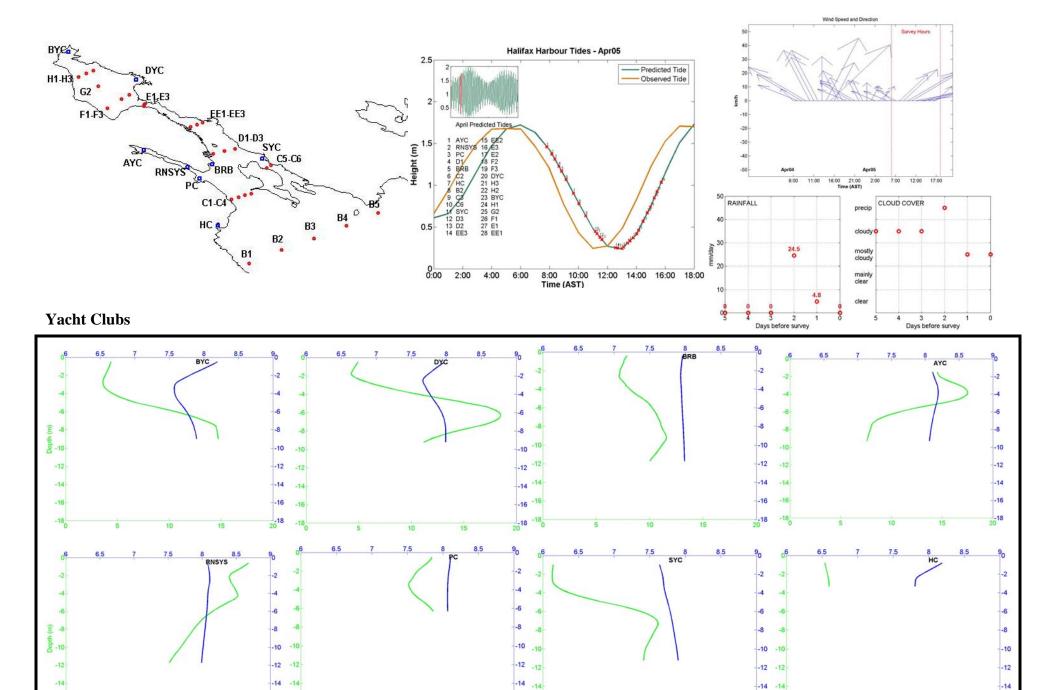


Density in kg/m³ Fecal coliform: above swimming limit (200 cfu/100mL) above shellfish limit (14 cfu/100mL) below limits



below limits







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