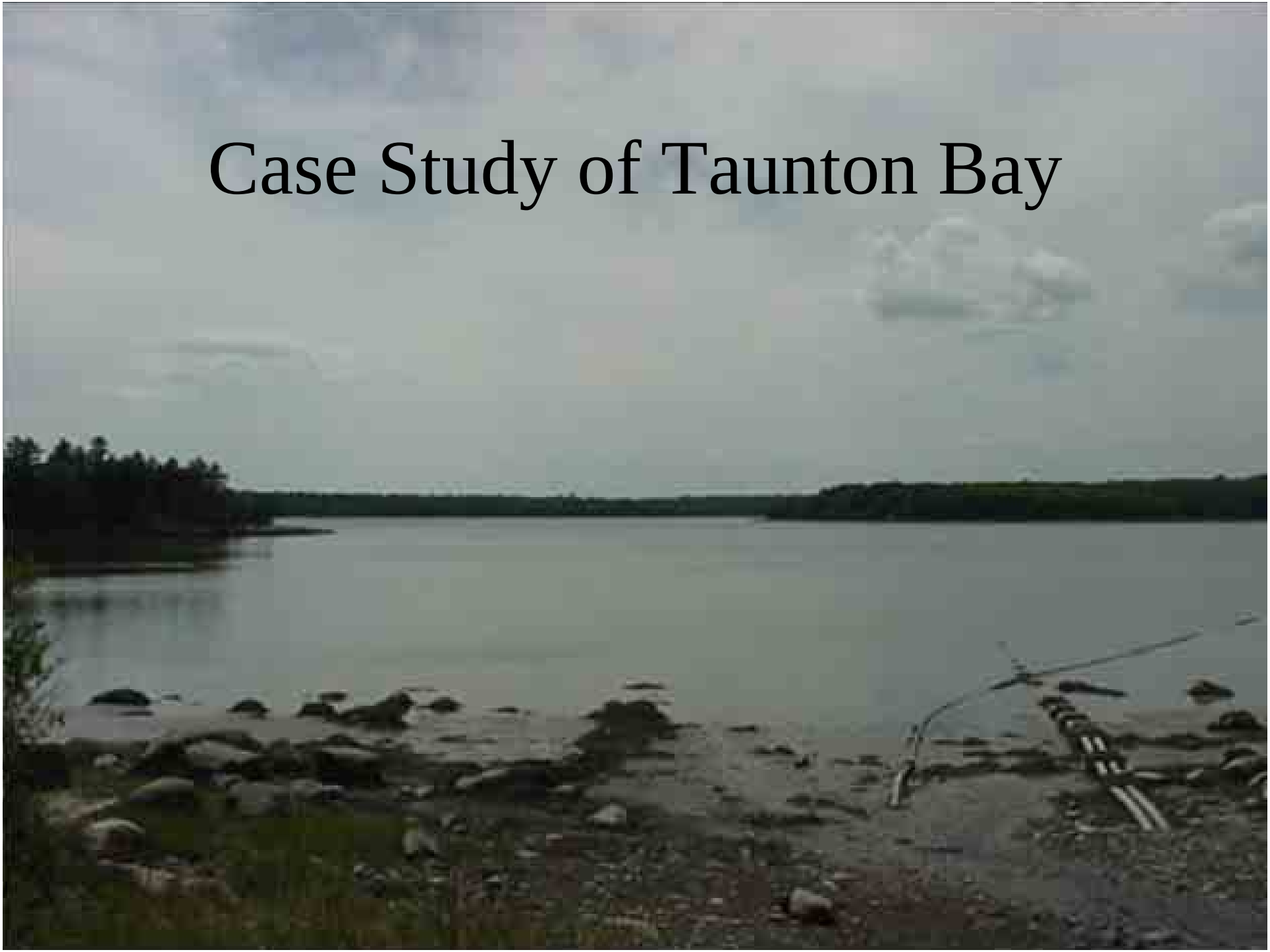
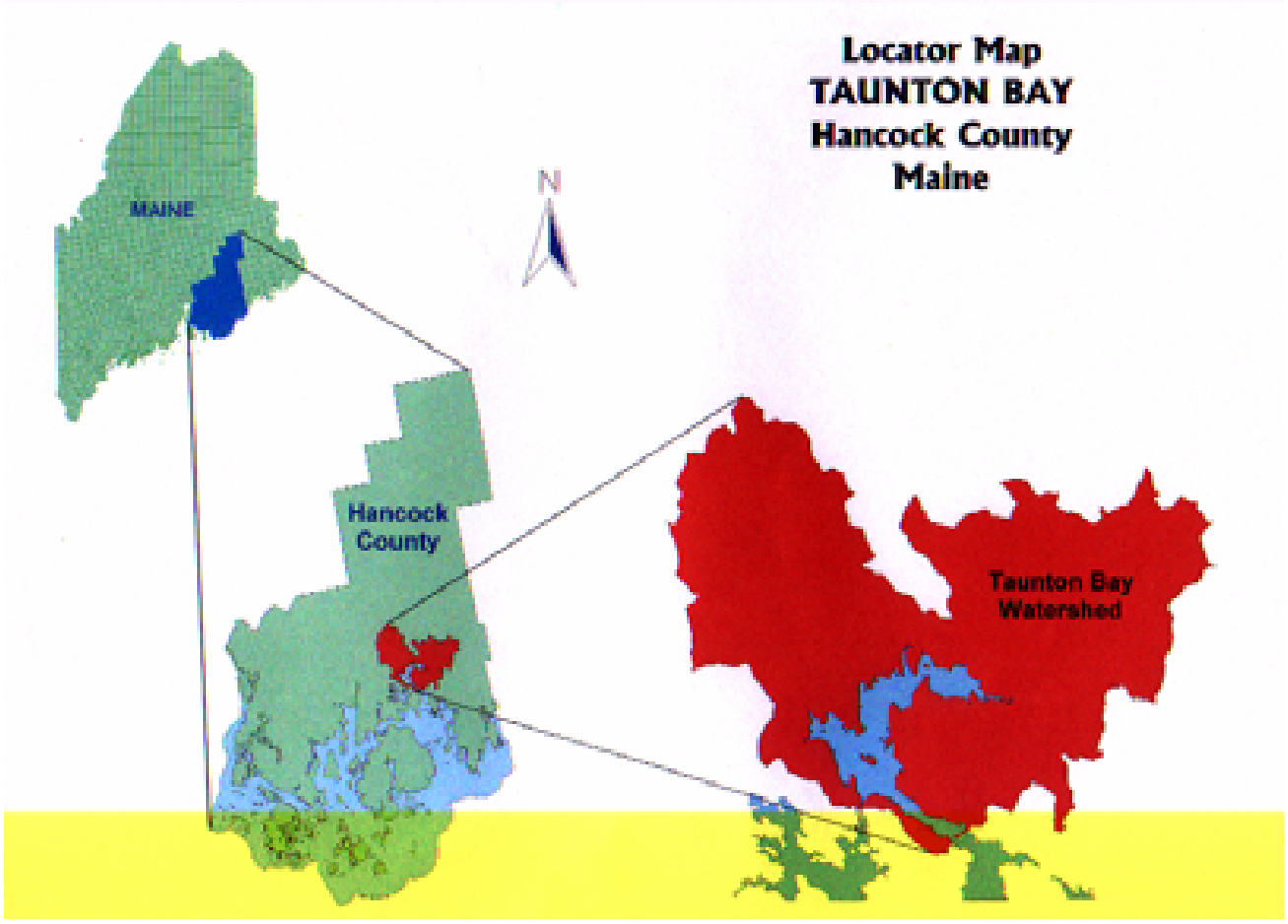
Case Study of Taunton Bay



Objectives

- Create Subaqueous Soil Survey
- Further Correlate Eelgrass and Soil Characteristics
- Quantify Organic Carbon in Taunton Bay

Where Is Taunton Bay?



What Sets Us Apart

- Large tidal range
- Cold water temperature
- Lack of barrier islands
- Rocky coast line
- Sparse salt marsh
- Glaciomarine deposits

Tools We Use

Bucket Auger

Peat Sampler

- # Coarse Pedon

- A1 0.5 cm Loose SiL 5Y 4/4
- Ag2 3 cm. Loose SiL 4/10Y
- Cg1: 10 cm. Loose SiL 4/10B
- 2Cg2: 17 cm. Single grain vco SCL. 4/10B
- 2Cg3: 30 cm. Single grain gravelly vco SCL. 5/10B
- 2Cg4: 73 cm. Single grain very gravelly vco SCL. 5/10B
- 2Cg5: 101 cm. Single grain extremely gravelly vco sandy loam. 5/10B
- R: auger hit bedrock ledge.

- # Fine Pedon

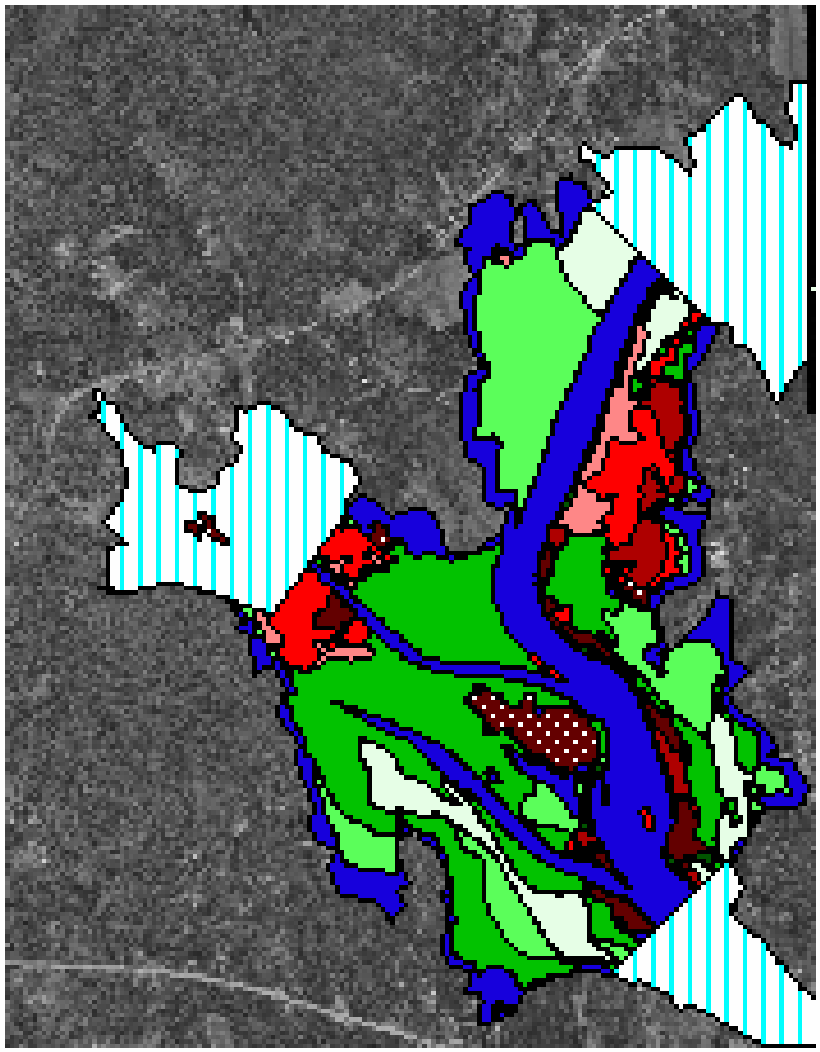
- A1 0.5 cm Loose SiL 5Y 4/4
- Ag2 4 cm. Loose SiL 4/10Y
- Cg1: 10 cm. Loose SiL 4/10B
- 2Cg2: 18 cm Massive SCL 5/10Y
- 2Cg3: 58 cm. Massive fSCL 5/10Y
- 3Cg4: 64 cm. Very gravelly coSCL. 5/10Y.
- 4Cg5: 83 cm. Massive SiCL. 5/10BG
- 4Cg6: 100+ cm. Massive SiCL. 4/10BG

Submerged Alluvial Fan

A1: .5 cm 2.5Y 4/2 SiL

- Ag2: 5 cm 4/N SiL
- Cg1: 12 cm 5/10Y SiL
- Oeb: 18cm 4/N SiL
- 2Cg2: 41 cm 5/10Y gravelly LcoS
- 2Cg3: 59 cm 5/10Y gravelly LcoS
- 3Cg4: 4/N SiCL

Eelgrass Component



'96 Eelgrass Coverage

- 0 to 10%
- 10 to 40%
- 40 to 70 %
- 70 to 100%

'02 Eelgrass Coverage

- 0 to 10%
- 10 to 40%
- 40 to 70%
- 70 to 100%