

Summary And Use Of Lake Trout Data From Ontario Gill Net Surveys

Lake Trout Mortality Workshop
East Lansing, Michigan
October 2-3, 2008

Overview

- Data Uses and Background
- Offshore Index Program
- Targeted Lake Trout Surveys
- Recent Trends

Data Uses

- Lake Trout Rehabilitation
 - Relative Abundance
 - Age Composition
 - Natural Reproduction
- CWT recovery
 - Strain Comparison
 - Movement
- Stock Status/Quota Setting

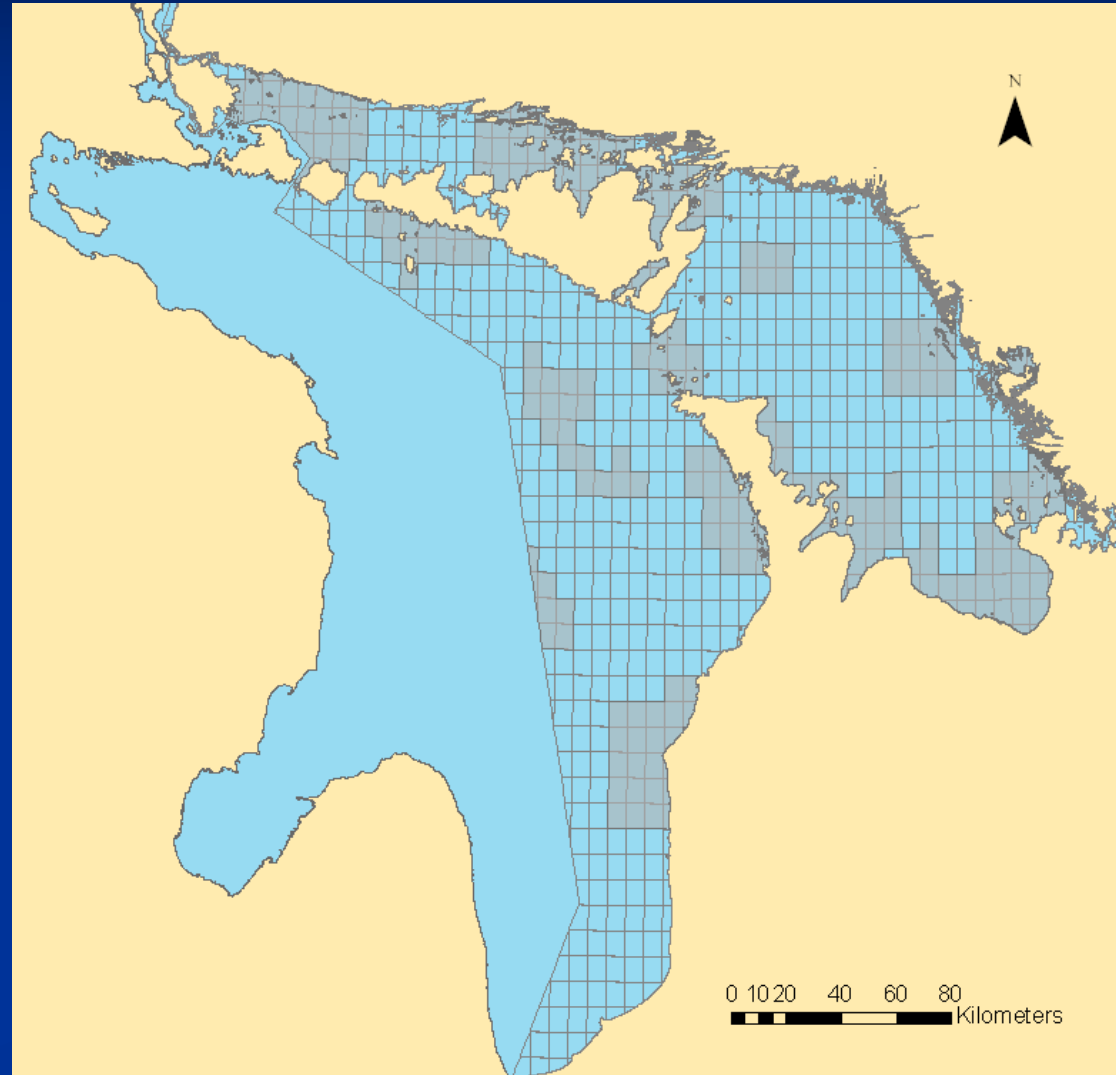
Standardized Survey Gear

1.5" to 5" Graded
Mesh Gill Nets

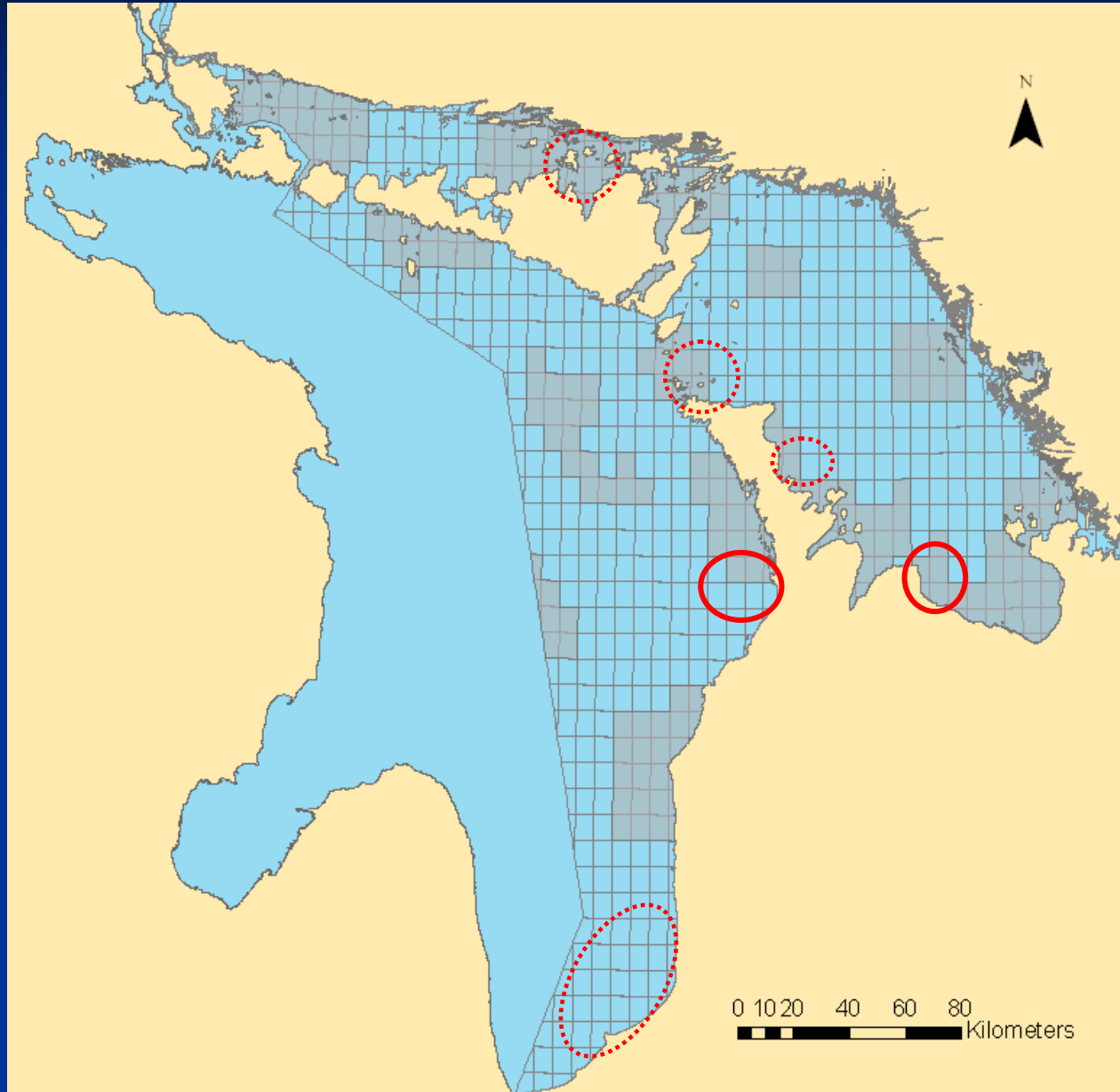
Multifilament Nets
750 yards

Monofilaments Nets
375 meters

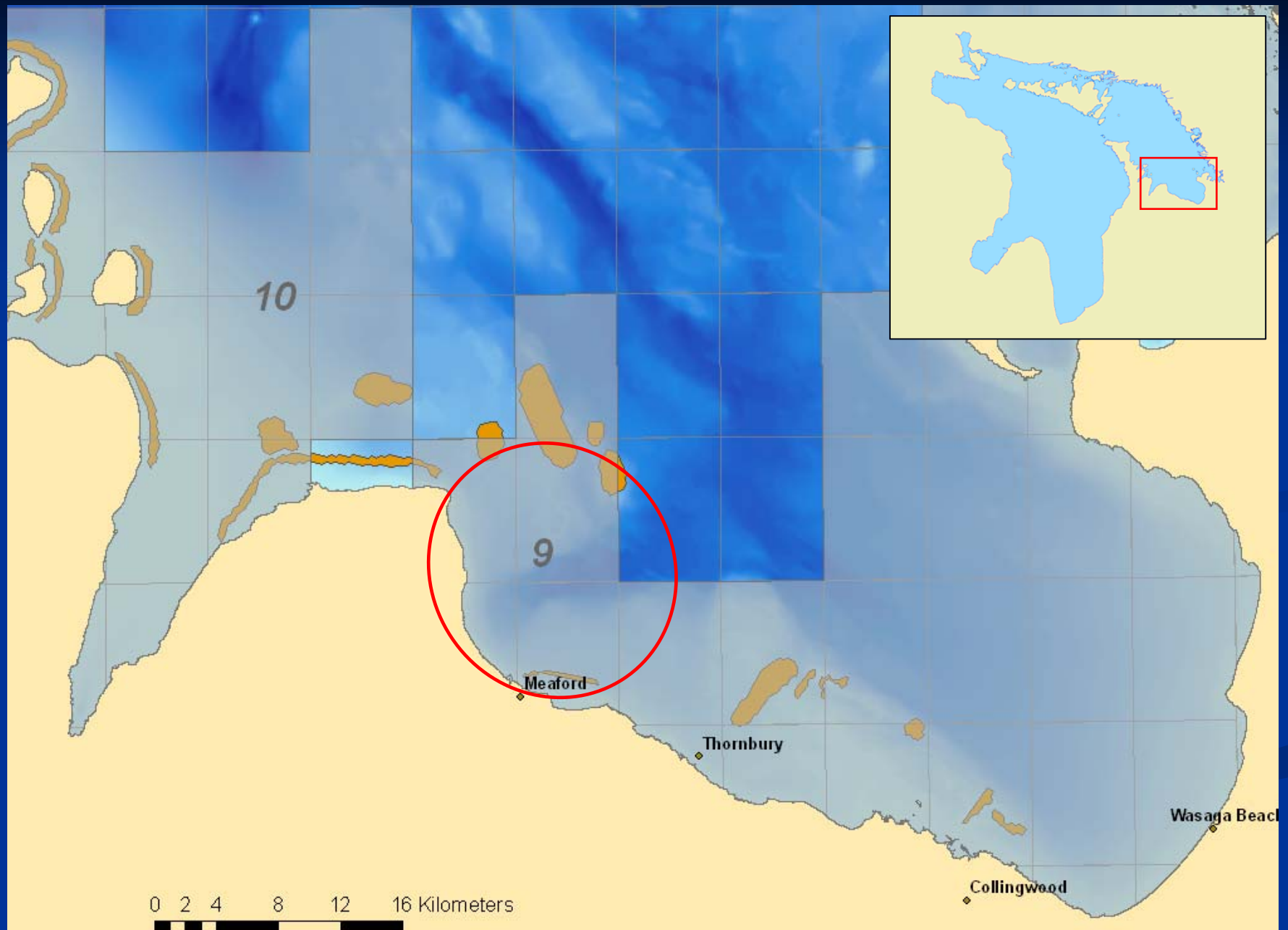
20-30 net sets per
project



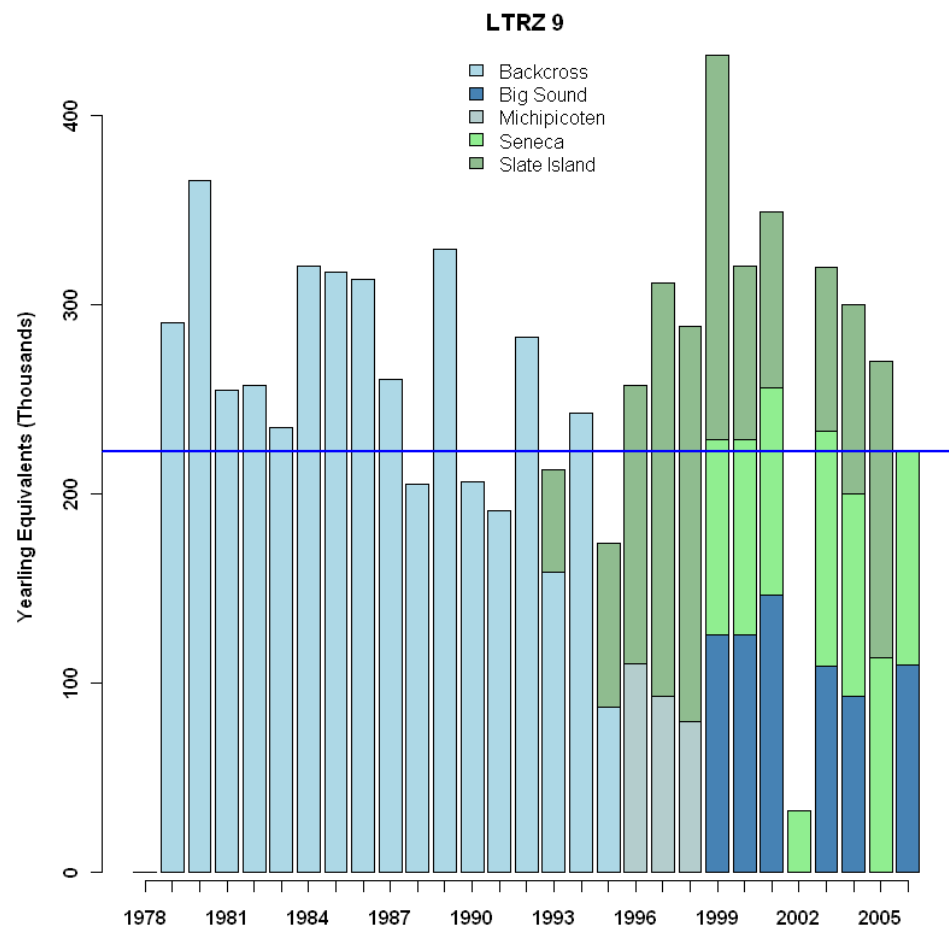
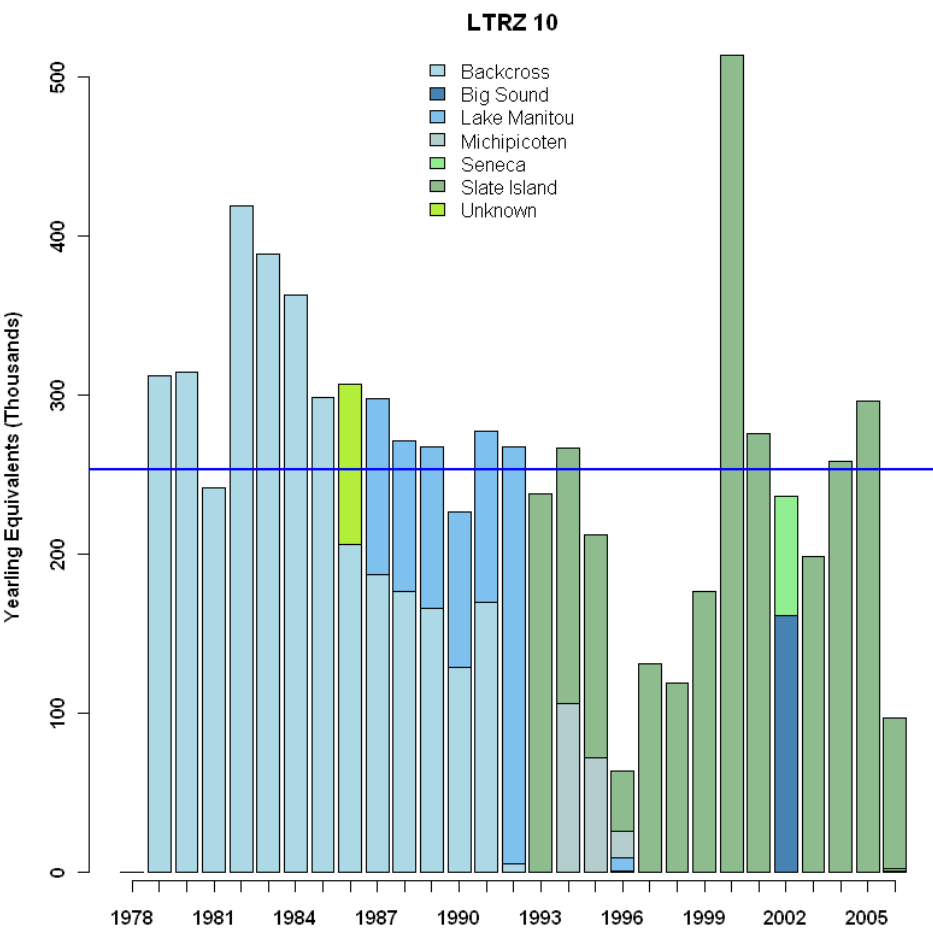
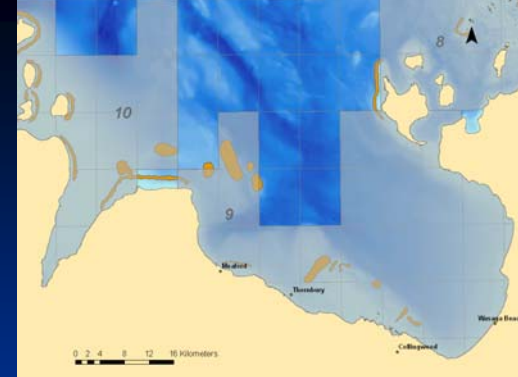
Offshore Index Program



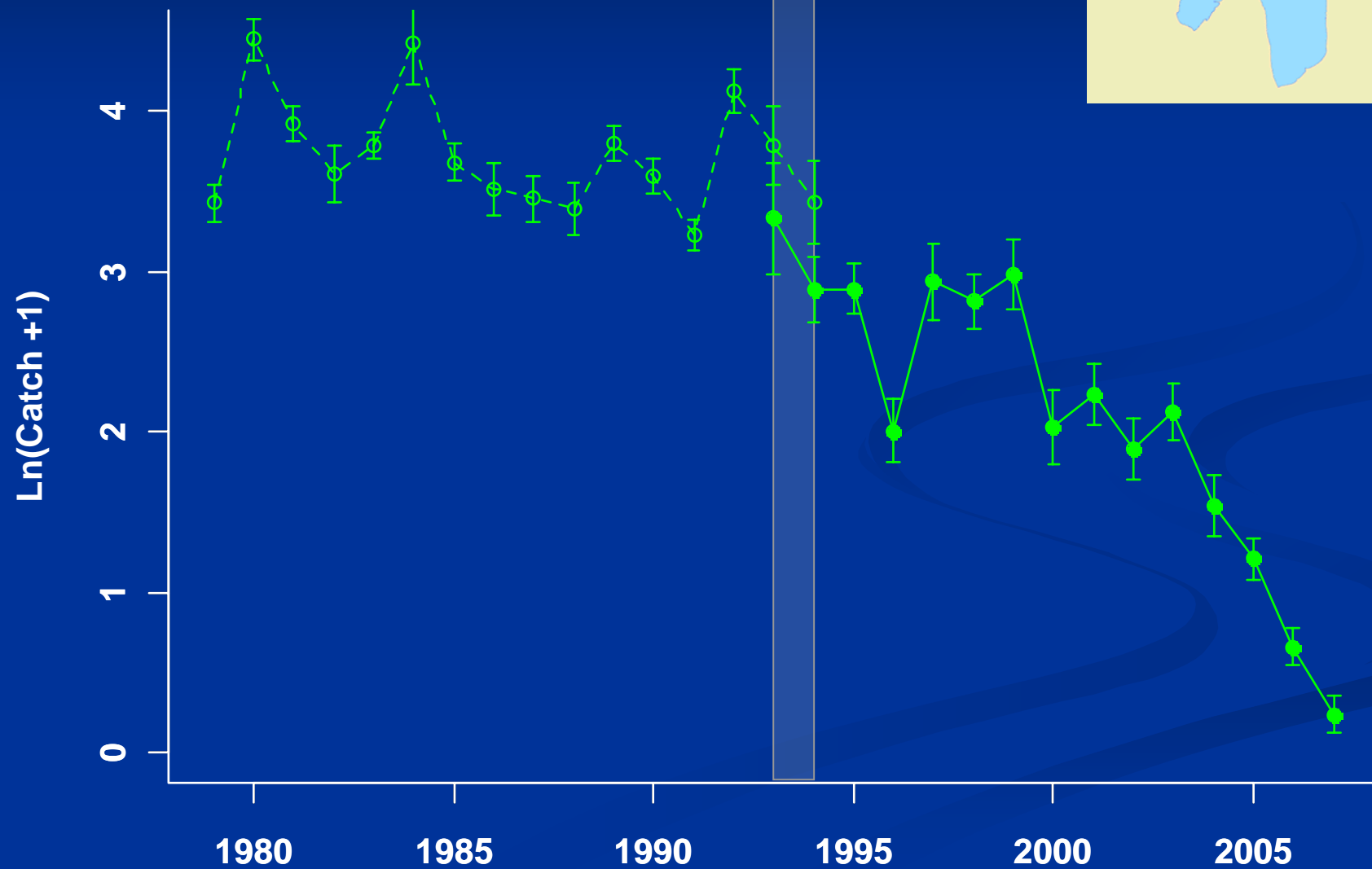
Southern Georgian Bay Index



Southern Georgian Bay Stocking

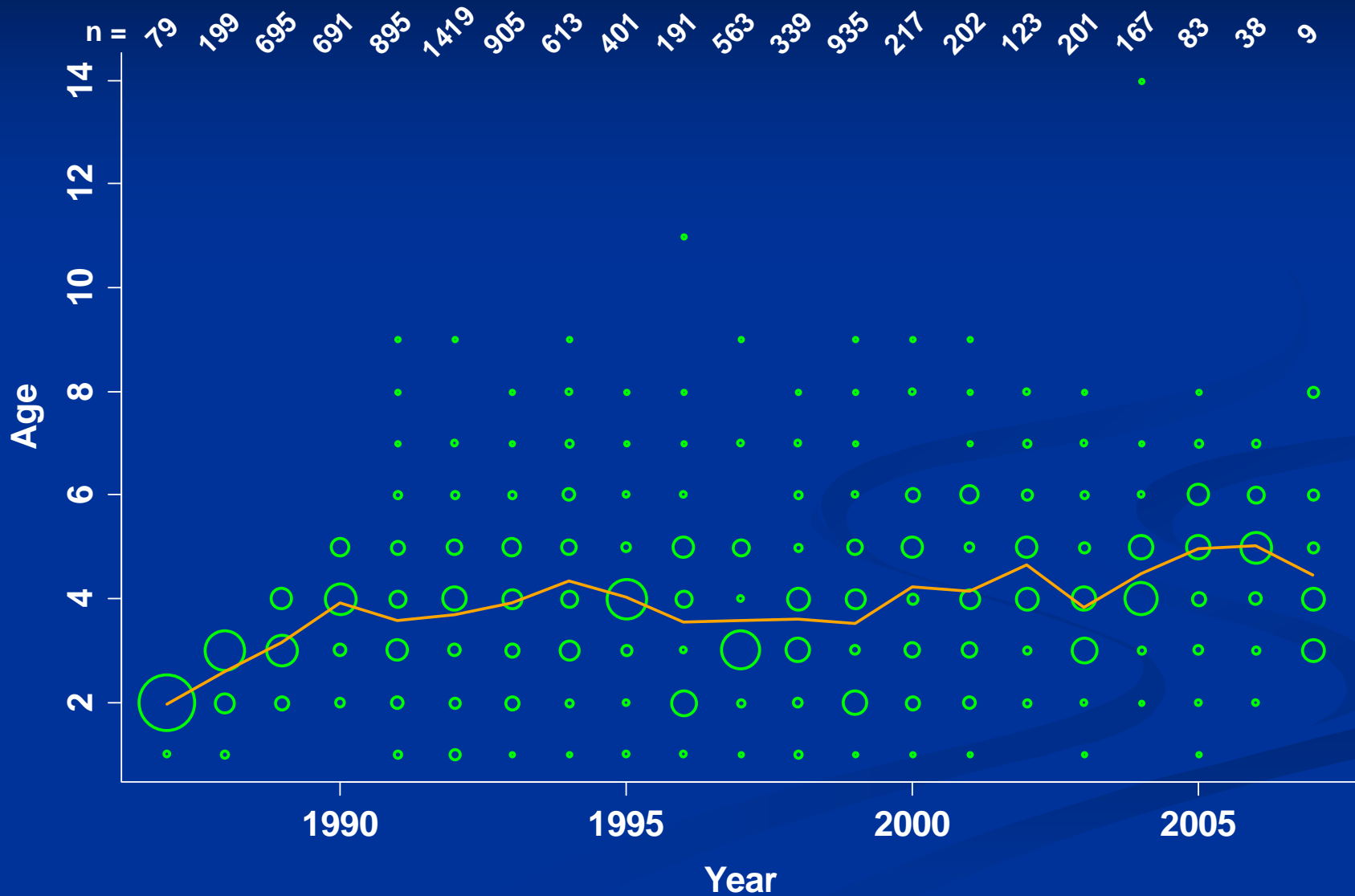


Southern Georgian Bay Index

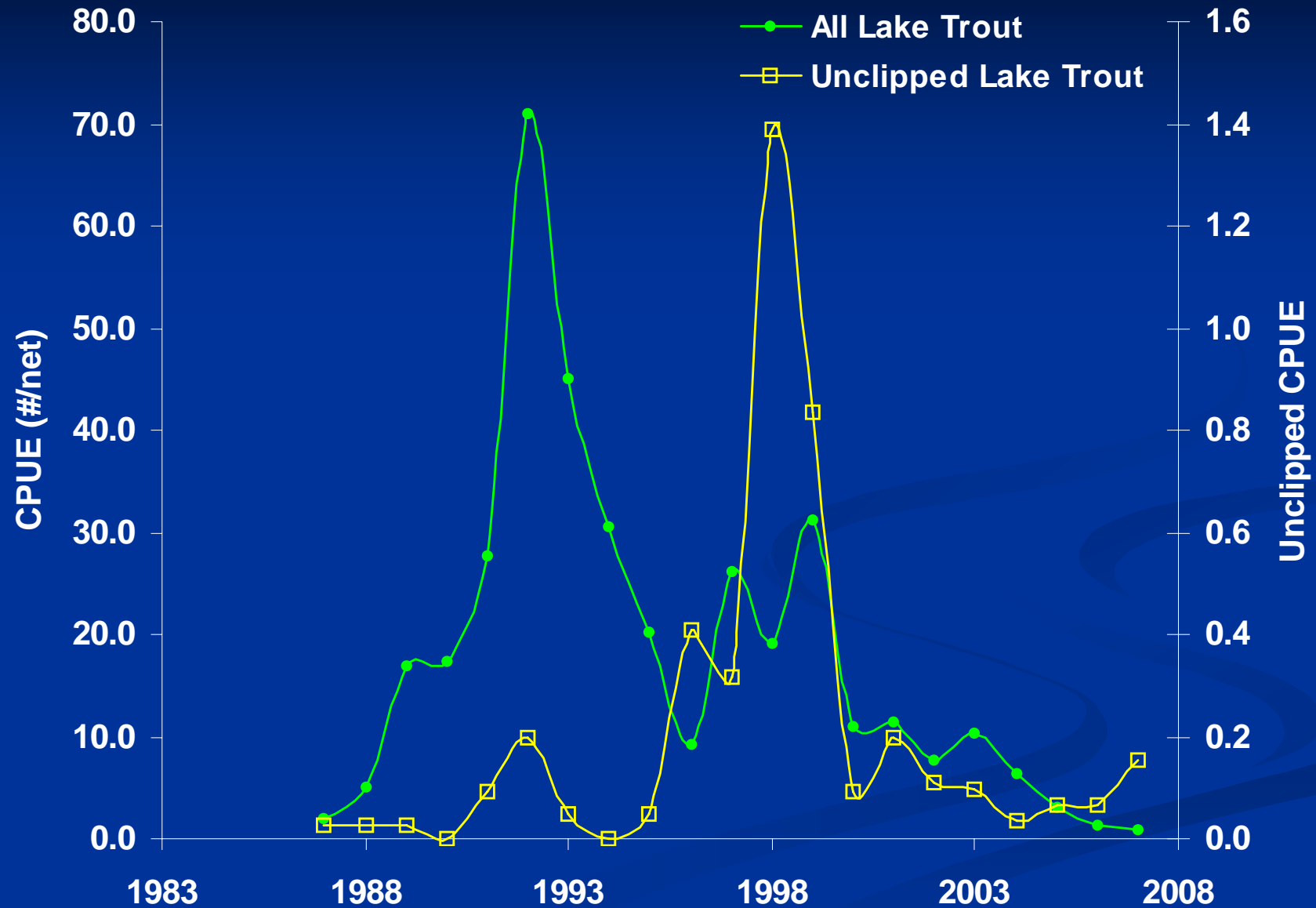


Southern Georgian Bay Index

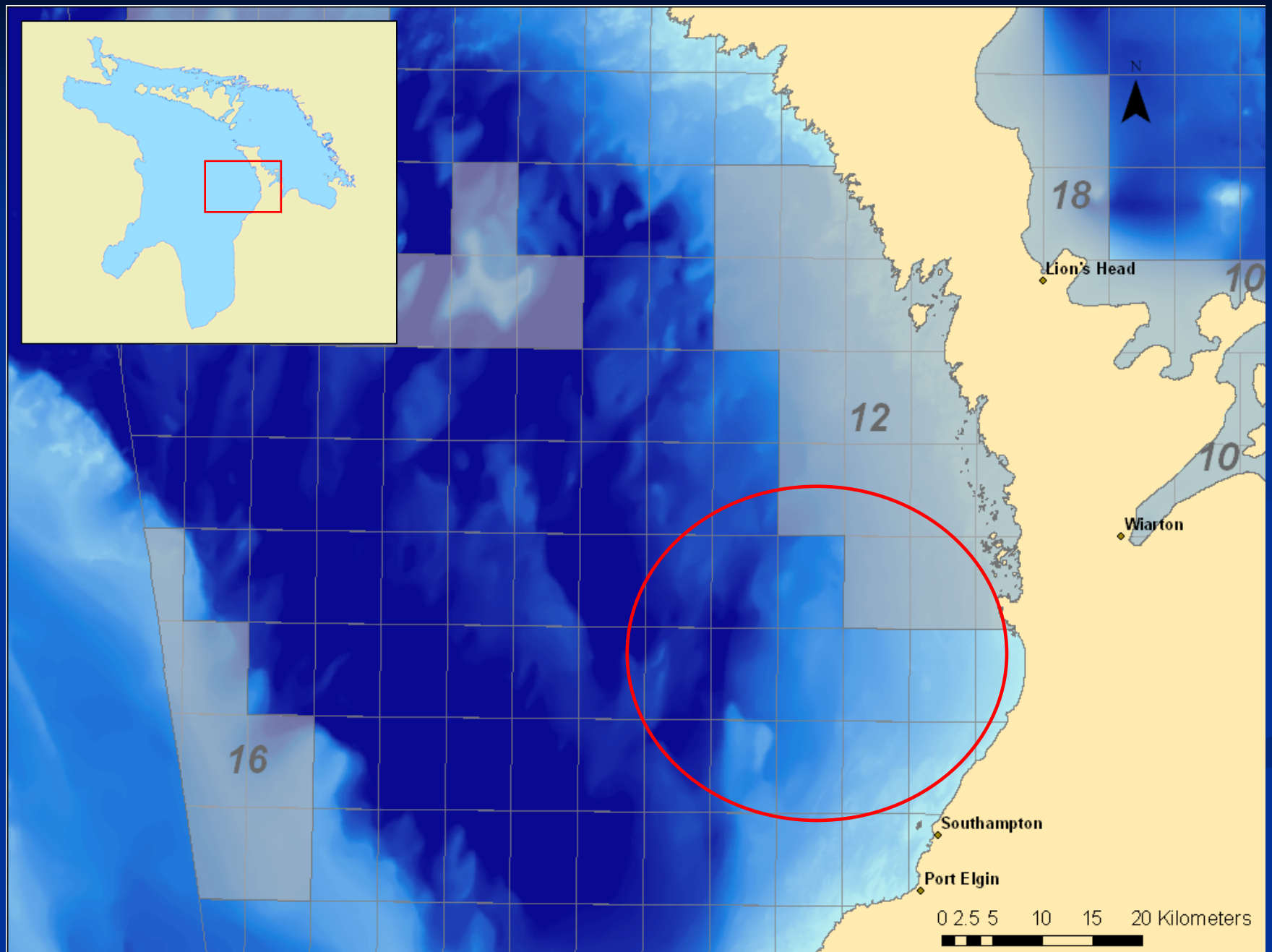
Age Composition



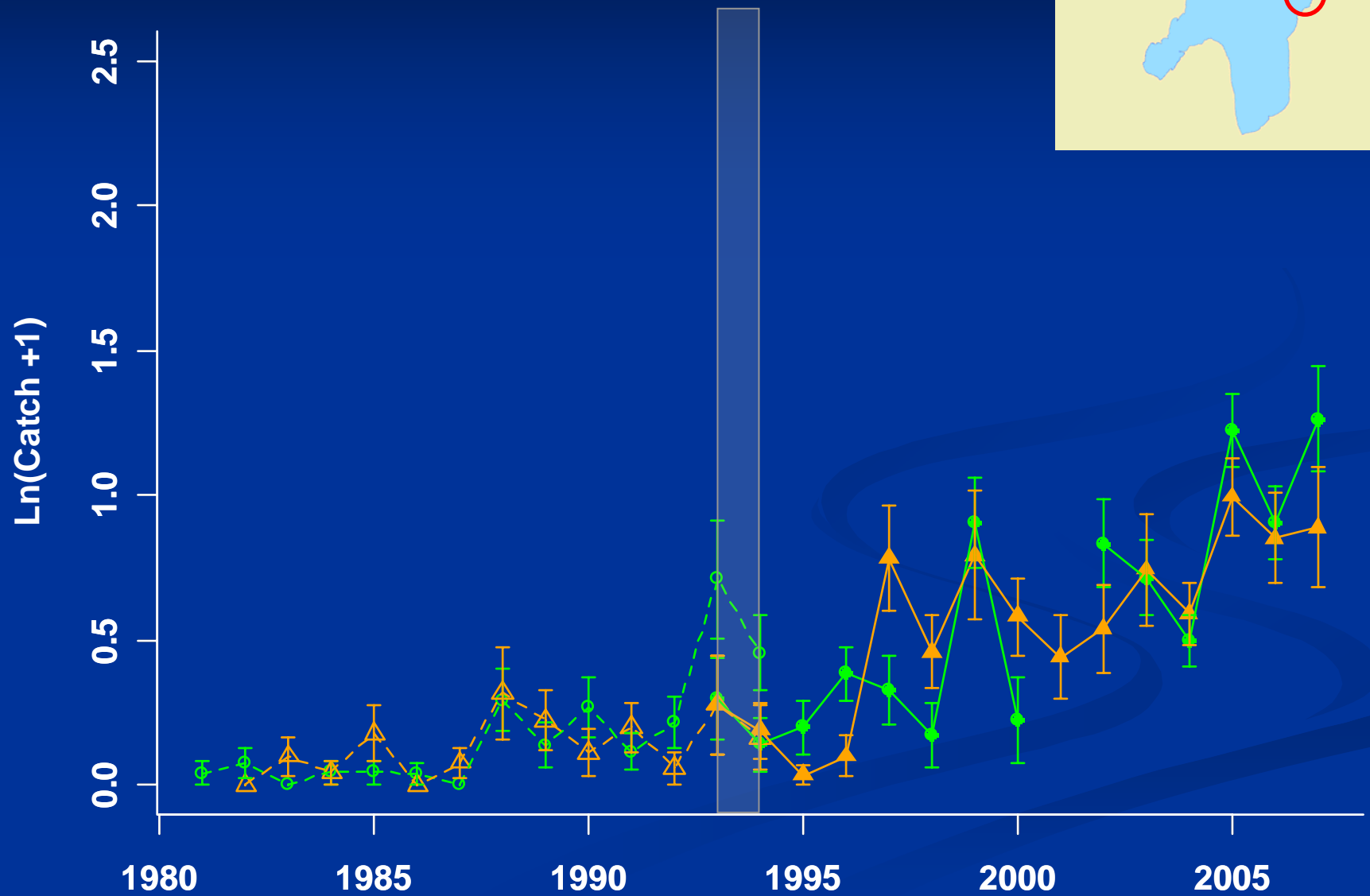
Southern Georgian Bay Index



Central Main Basin Survey

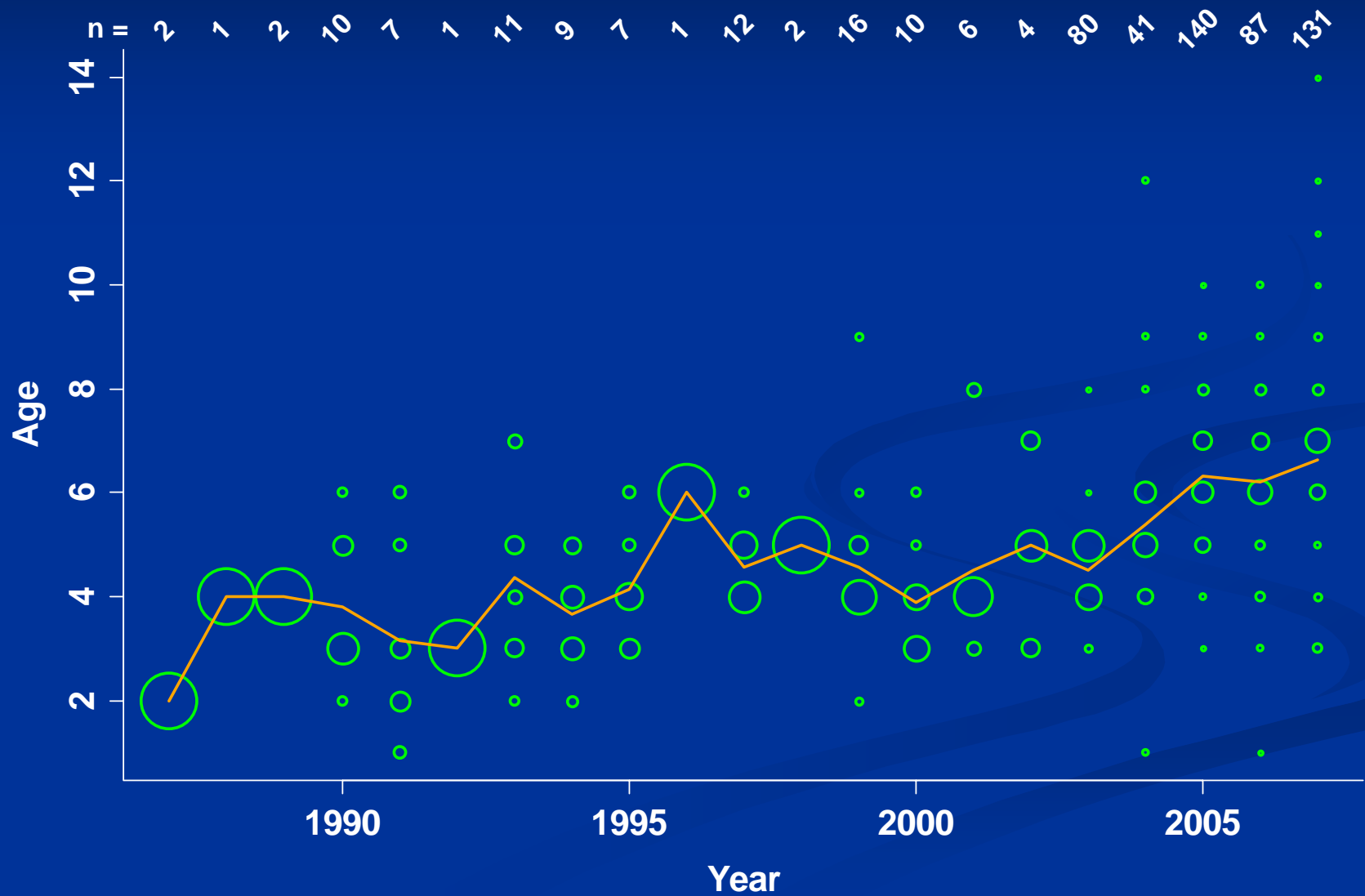


Central Main Basin Survey

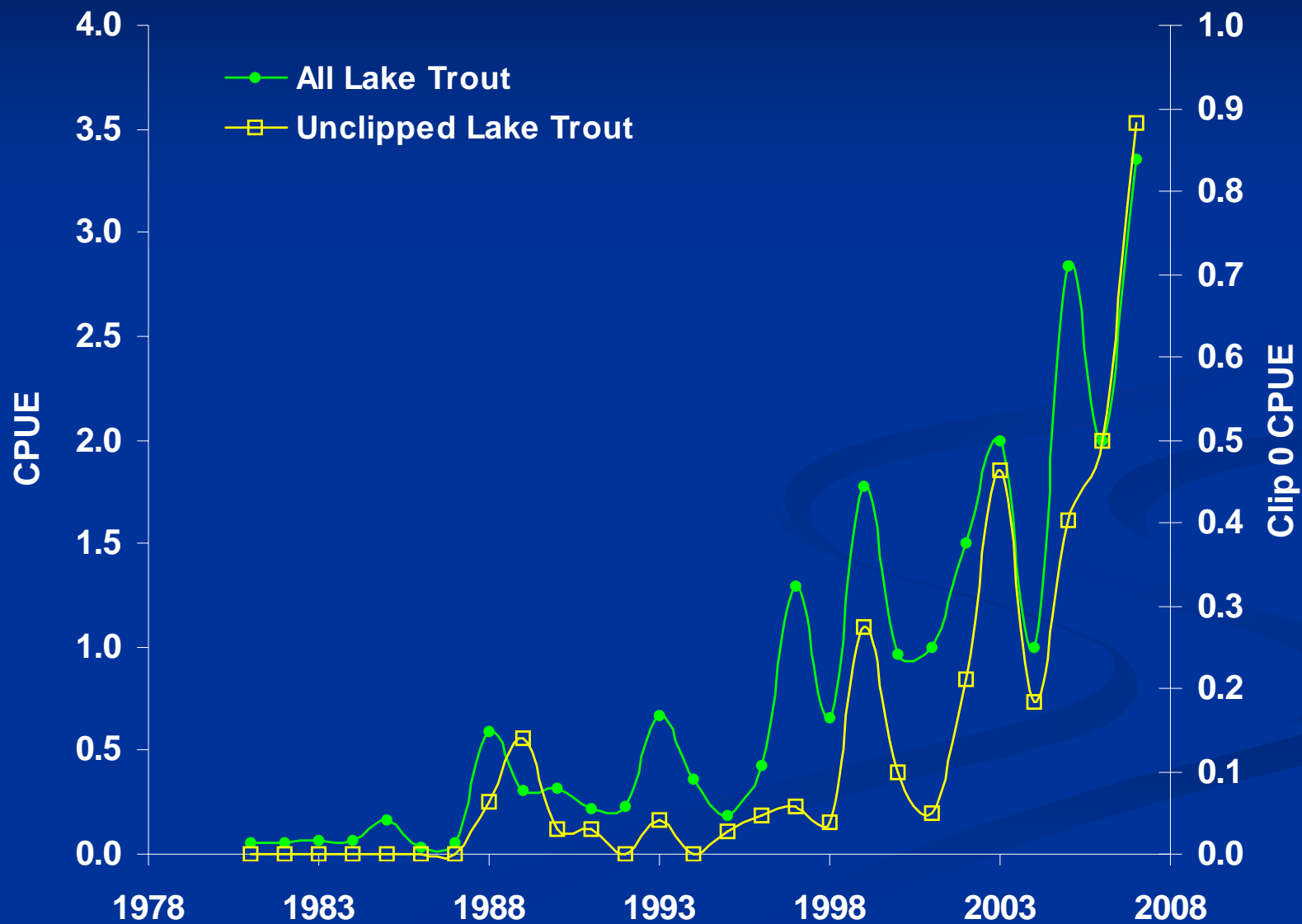


Central Main Basin Survey

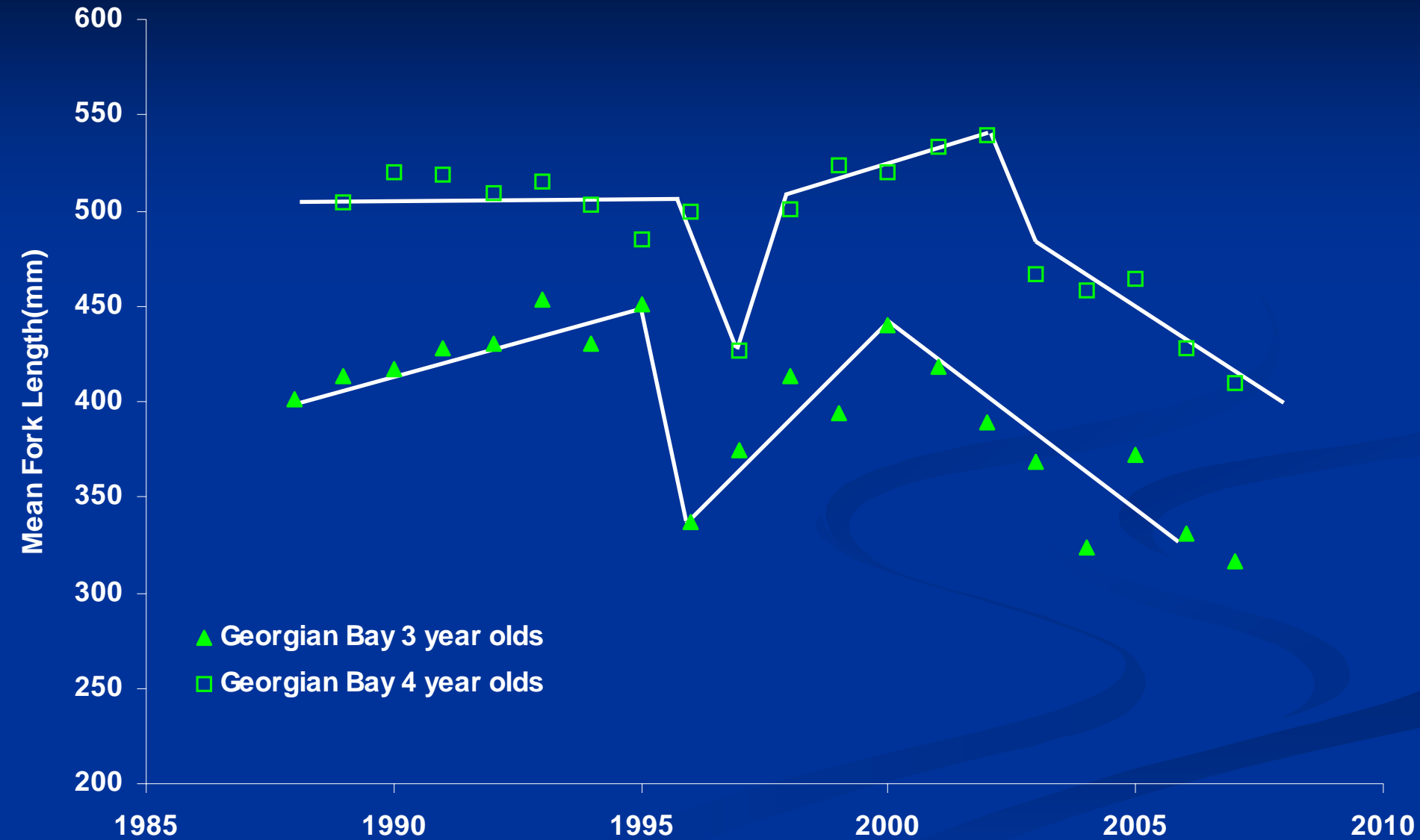
Age Composition



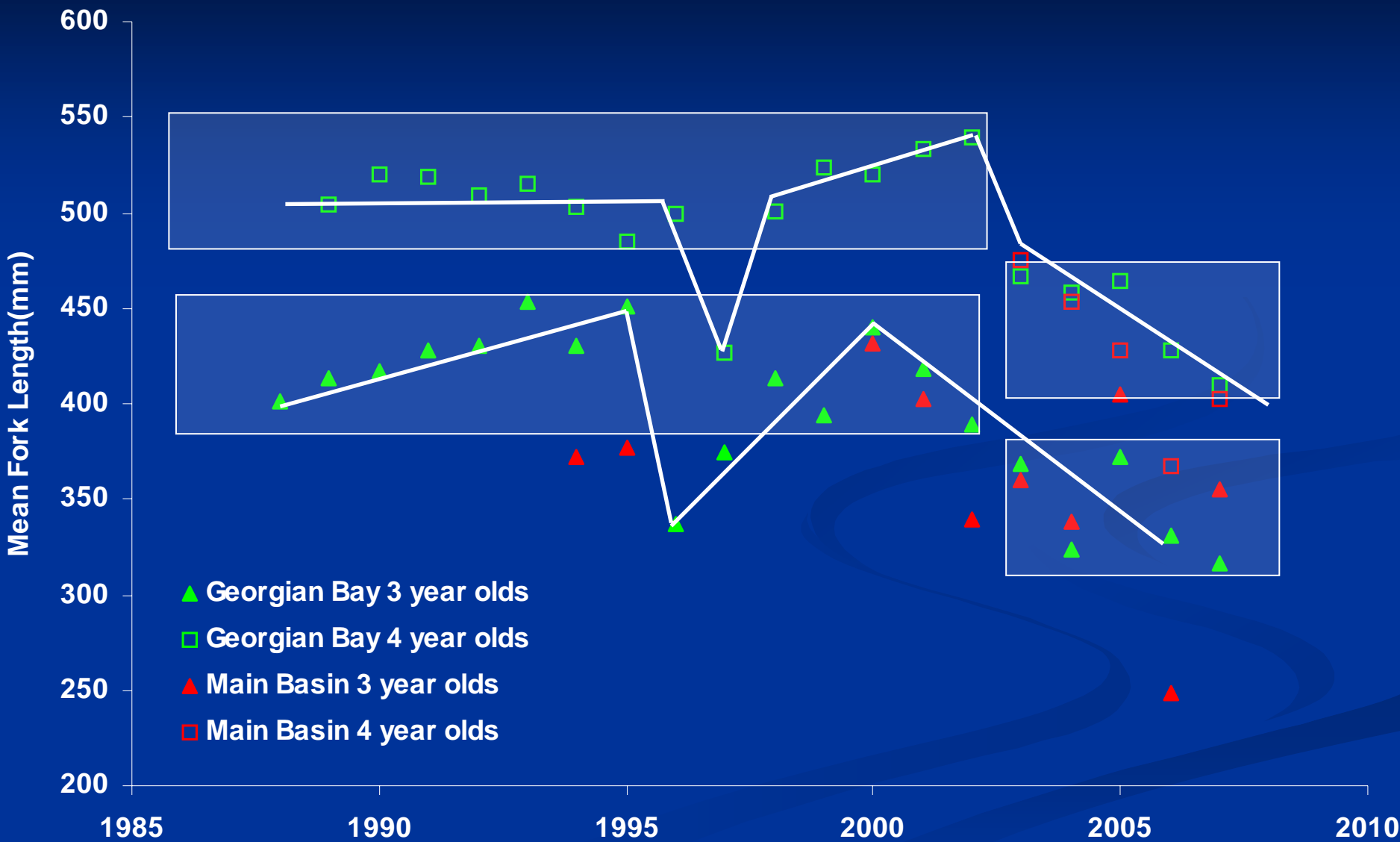
Central Main Basin Survey



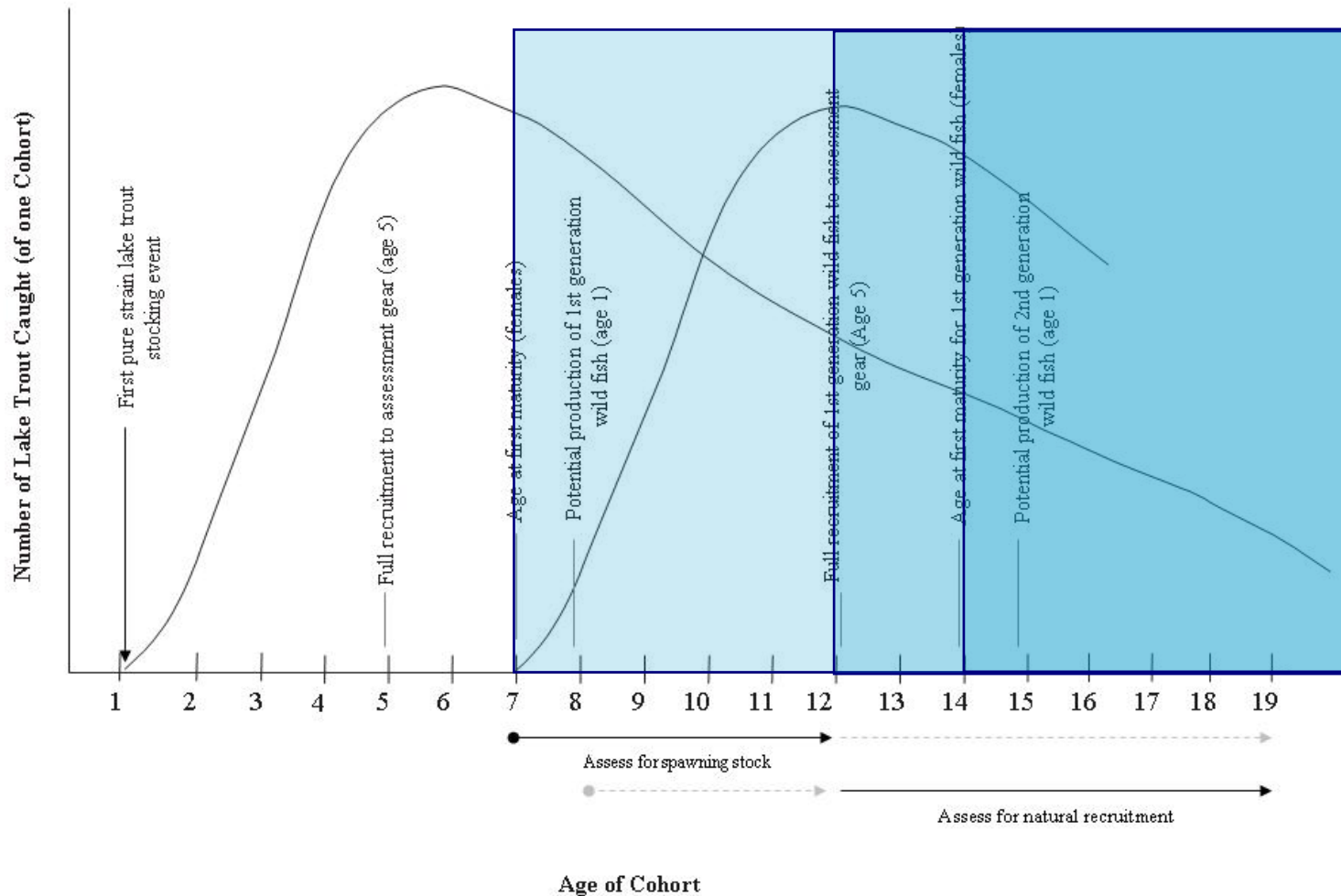
Observed Size at Age



Observed Size at Age



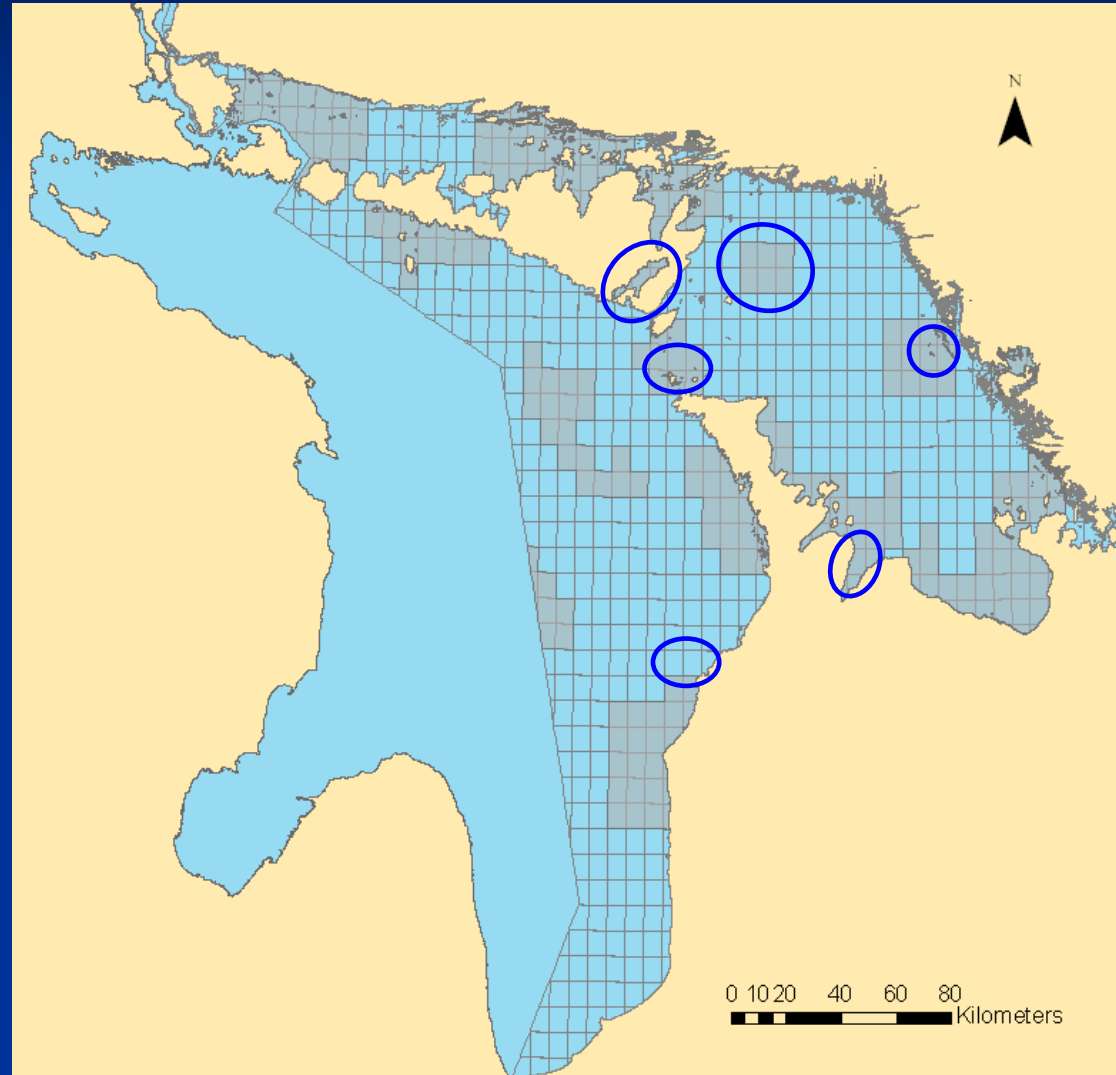
Targeted Lake Trout Surveys



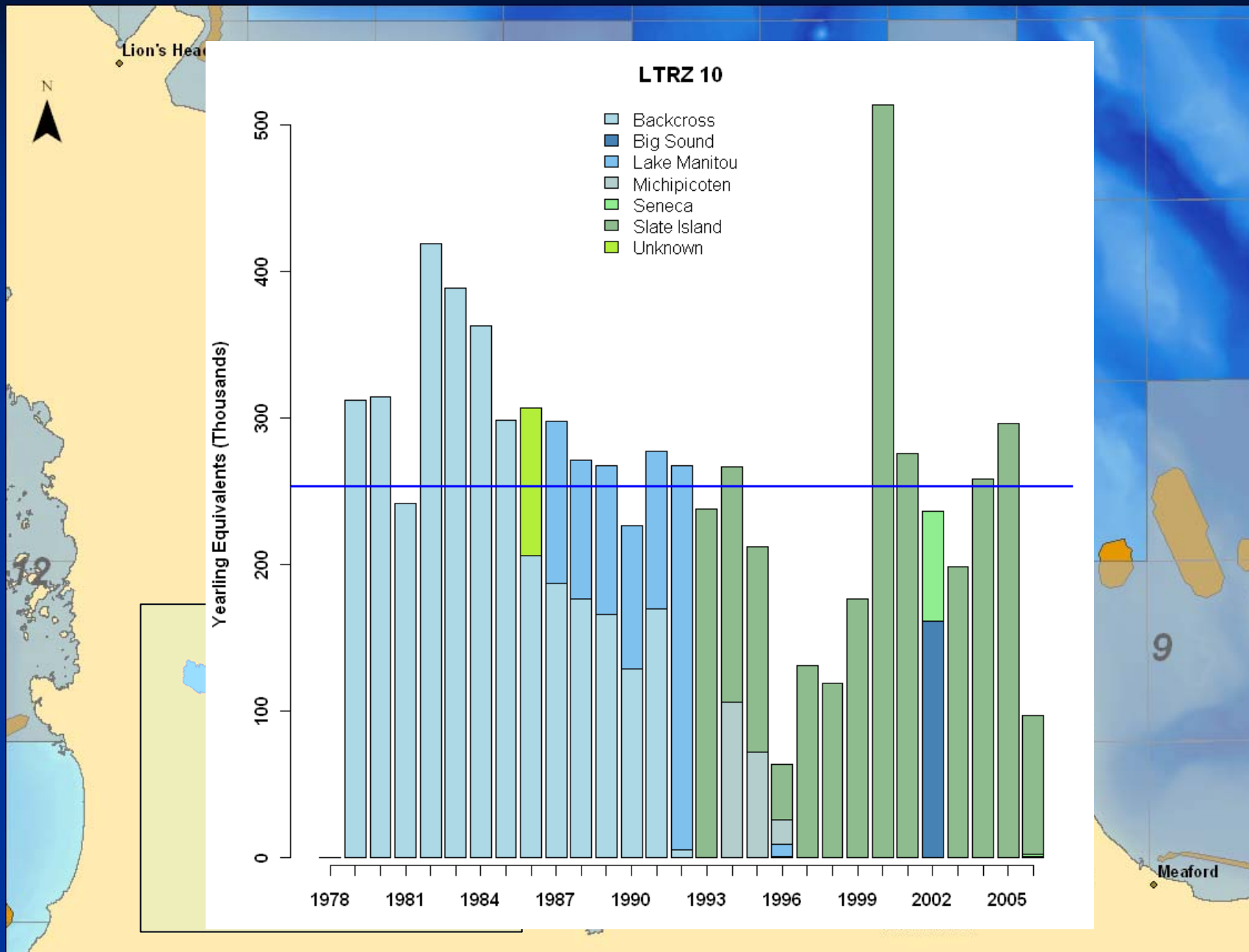
Targeted Lake Trout Surveys

Recent Point Observations:

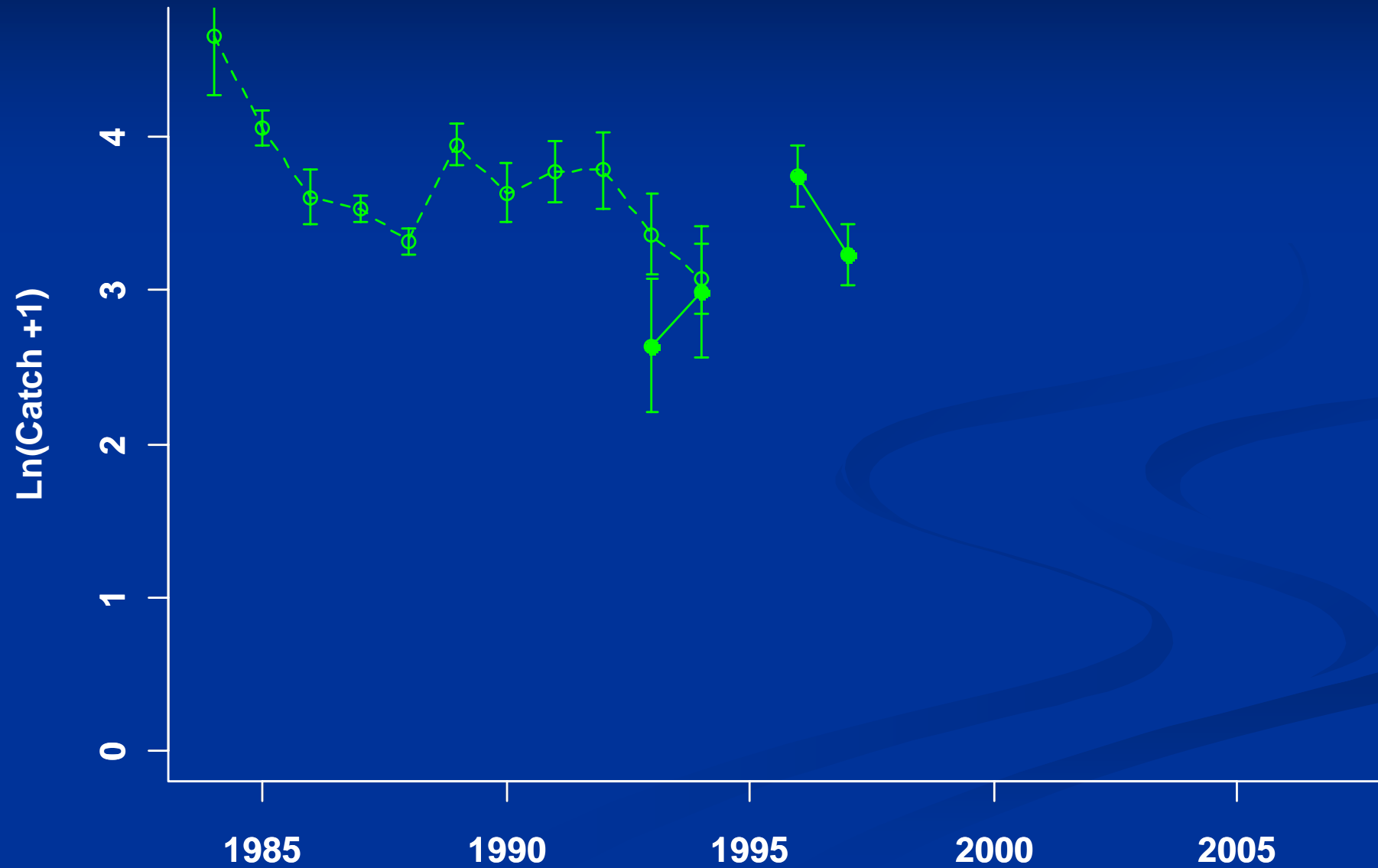
- Douglas Point
- Owen Sound*
- Grand Bank
- Limestone Islands
- South Bay
- White Shingle Shoal



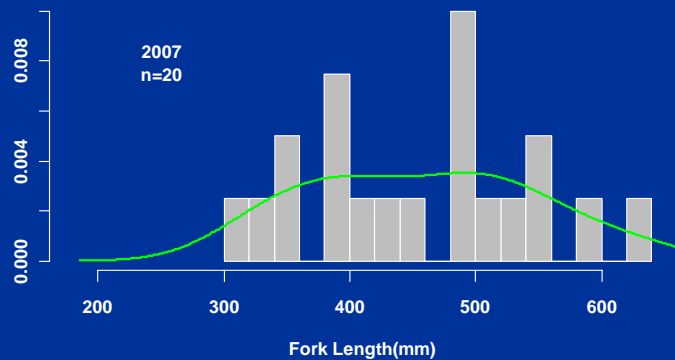
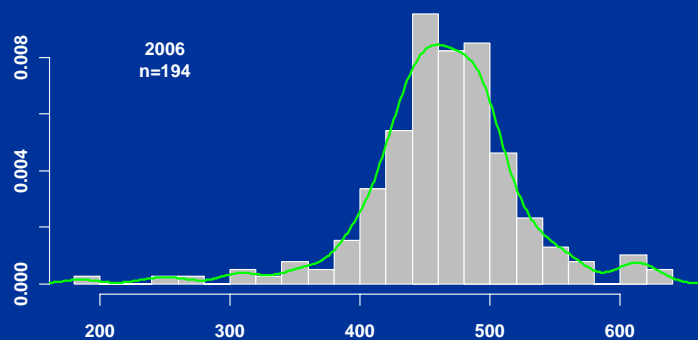
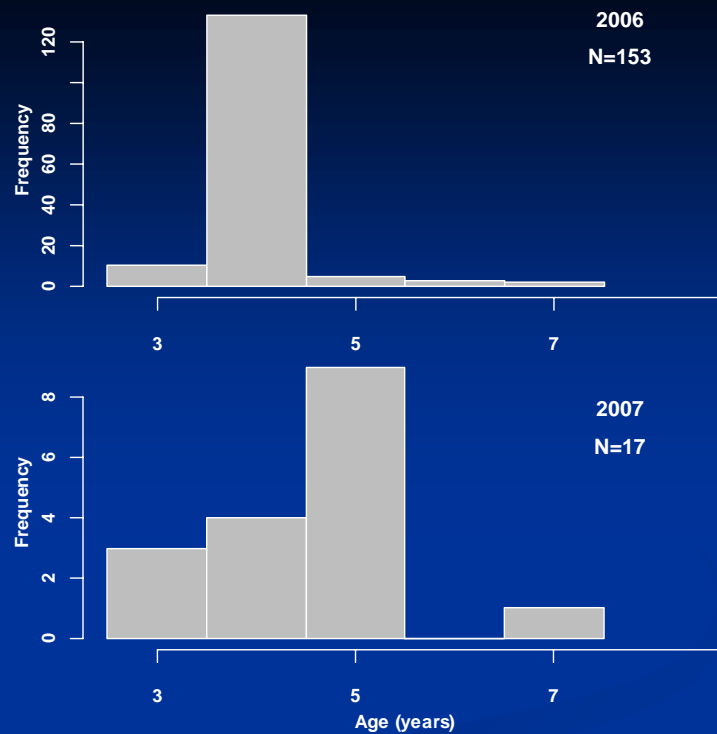
Owen Sound



Owen Sound



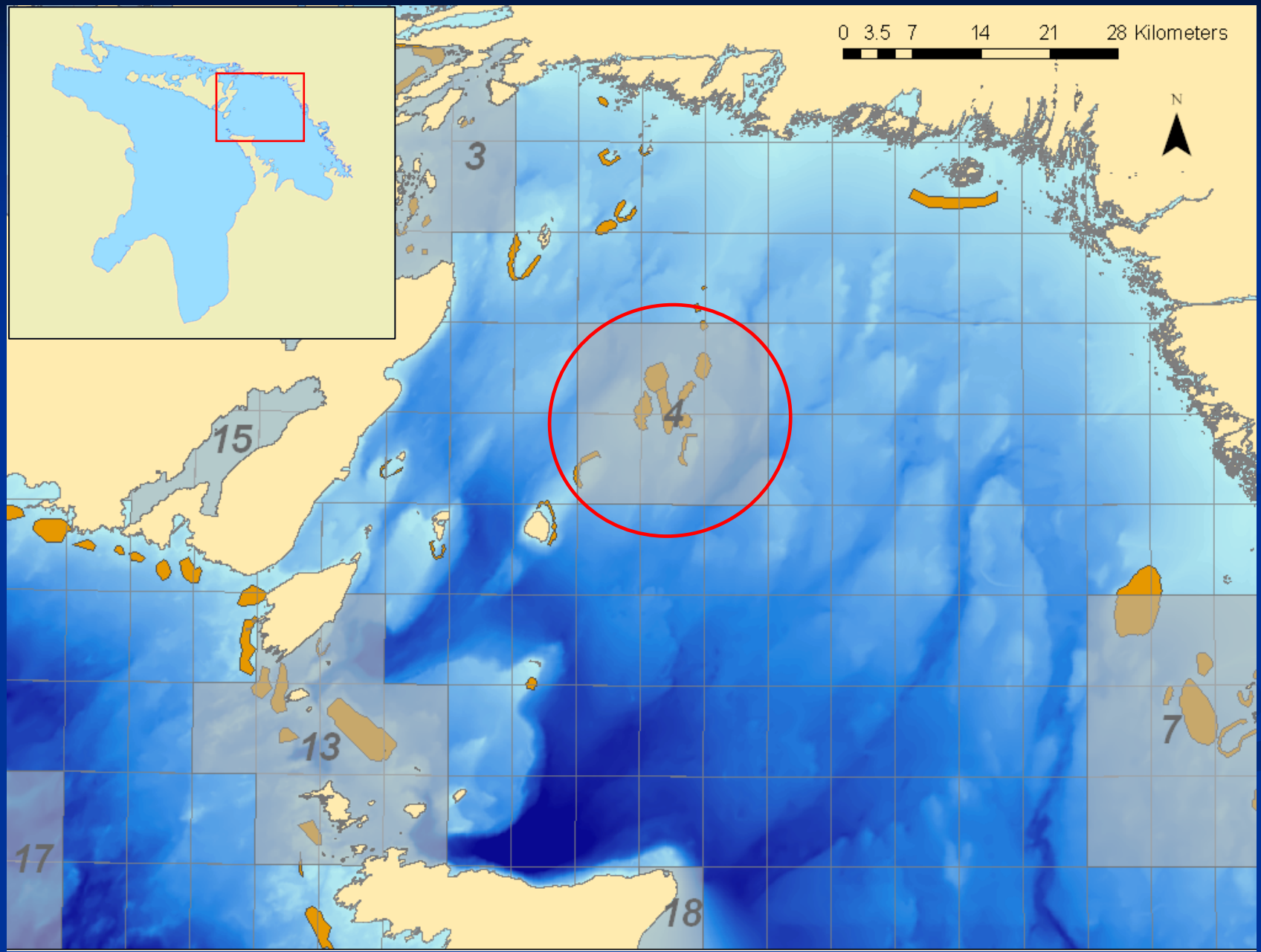
Owen Sound



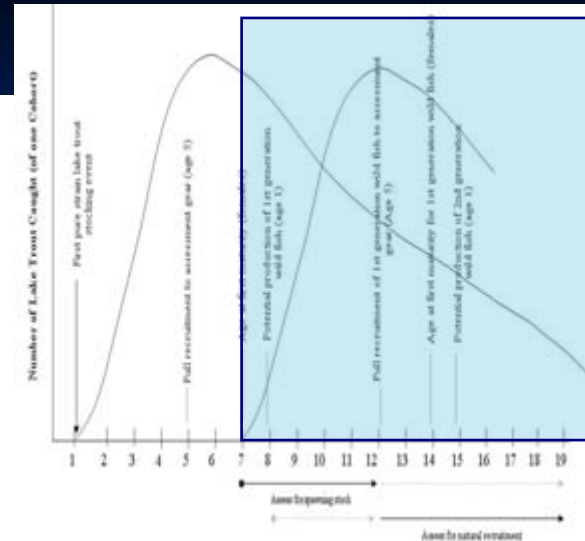
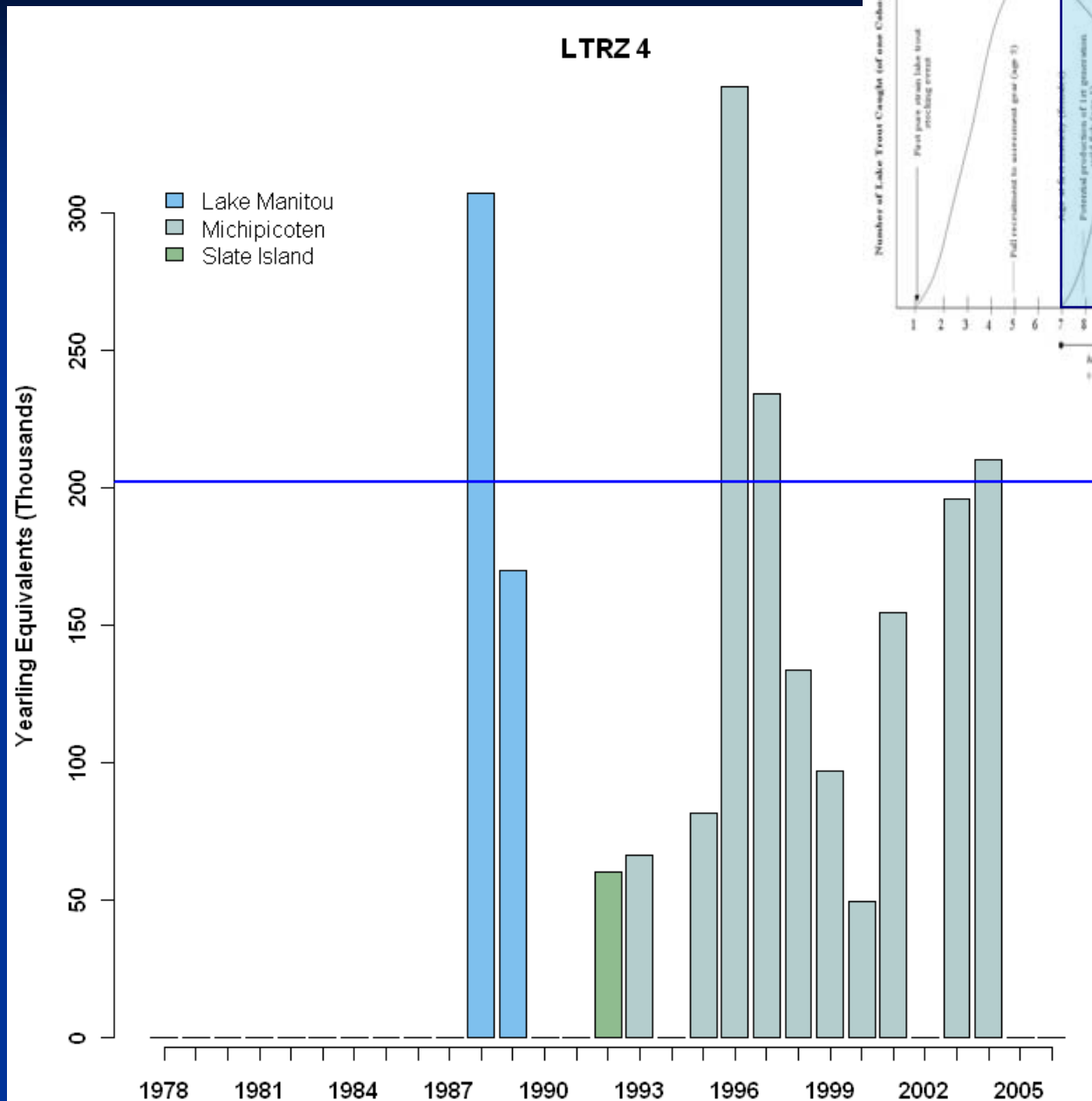
Owen Sound



Grand Bank

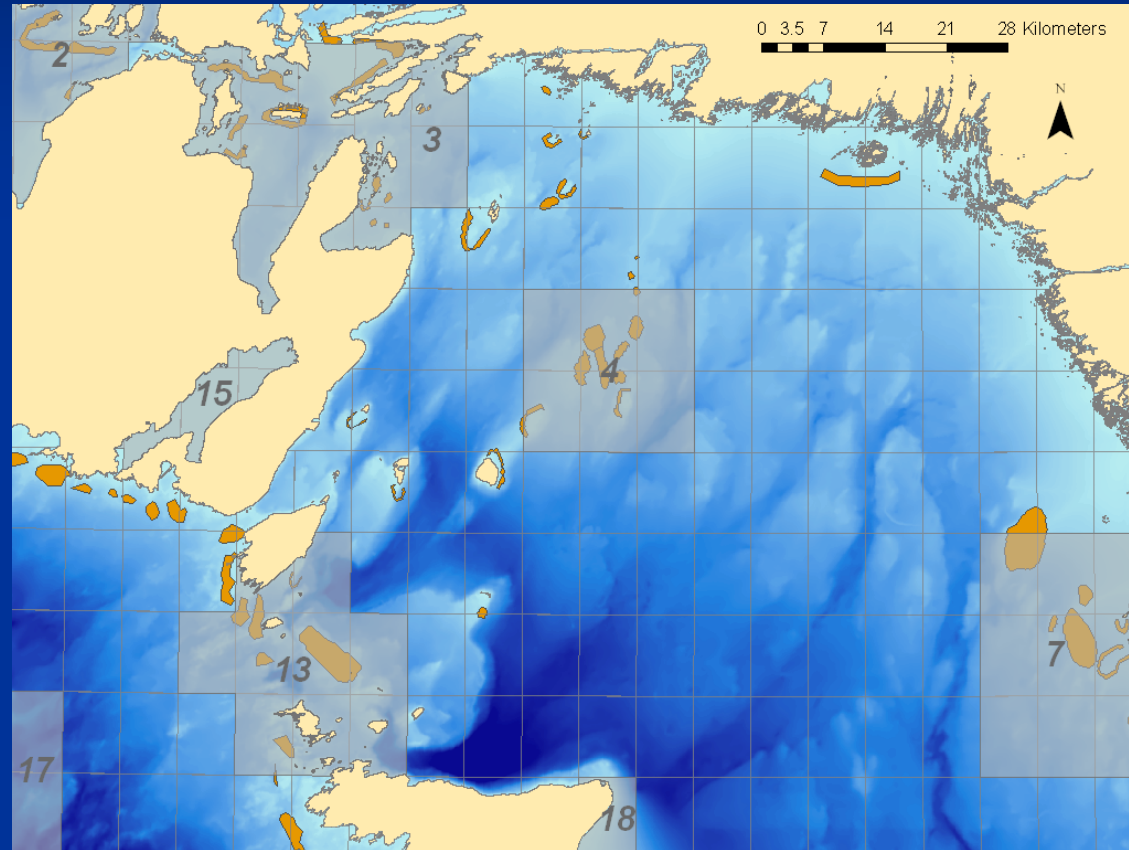


Grand Bank

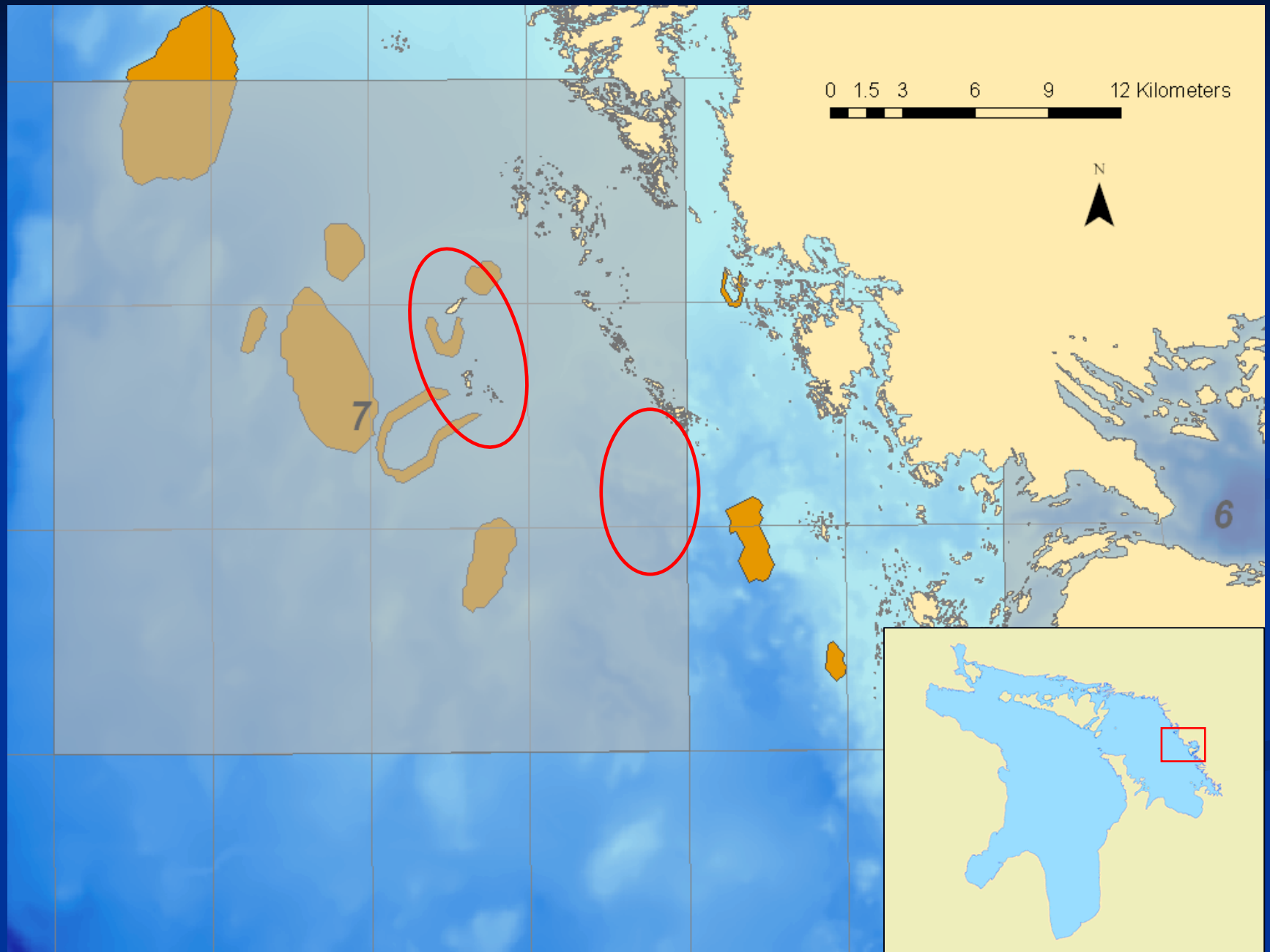


Grand Bank

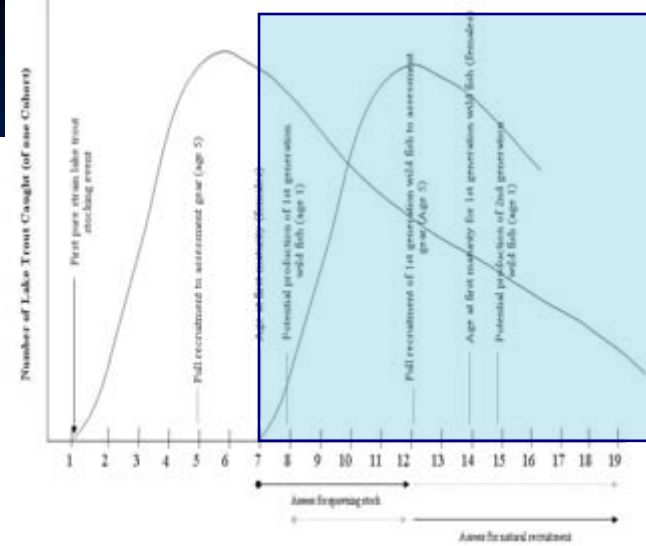
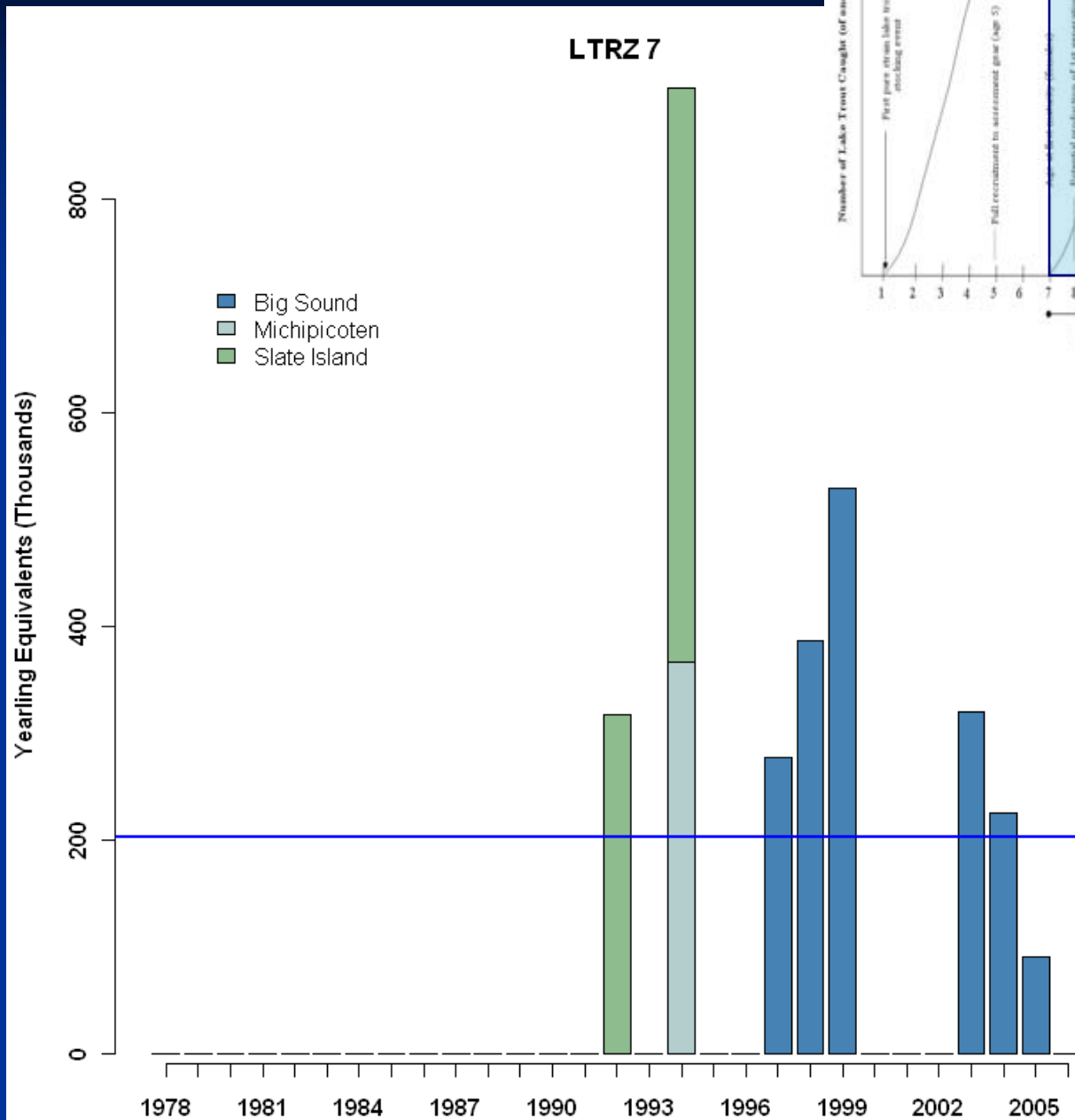
- 2006 Survey
- 11 net sets
- 5 lake trout
 - All clipped
 - 4 – 6 year olds
 - 1 – 7 year old



Limestone Islands

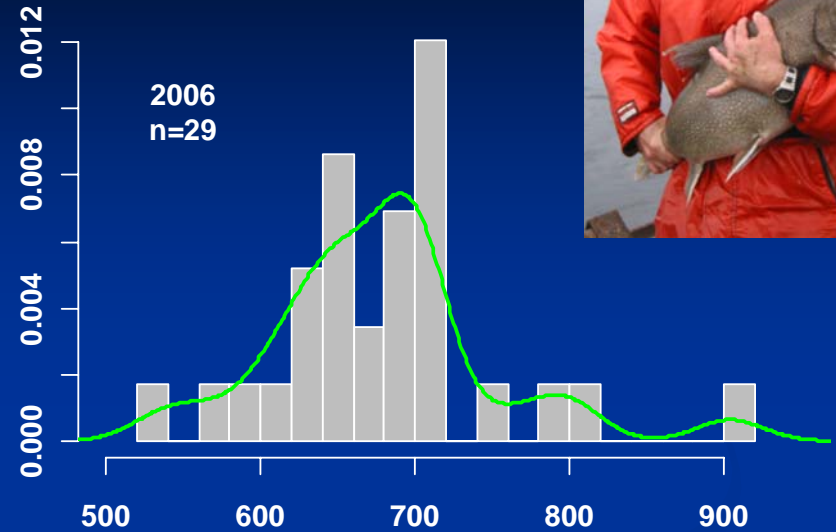
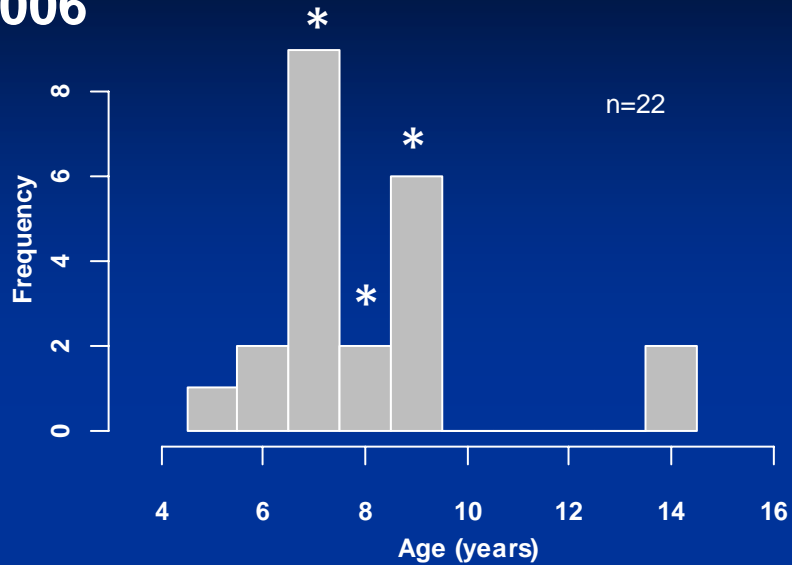


Limestone Islands

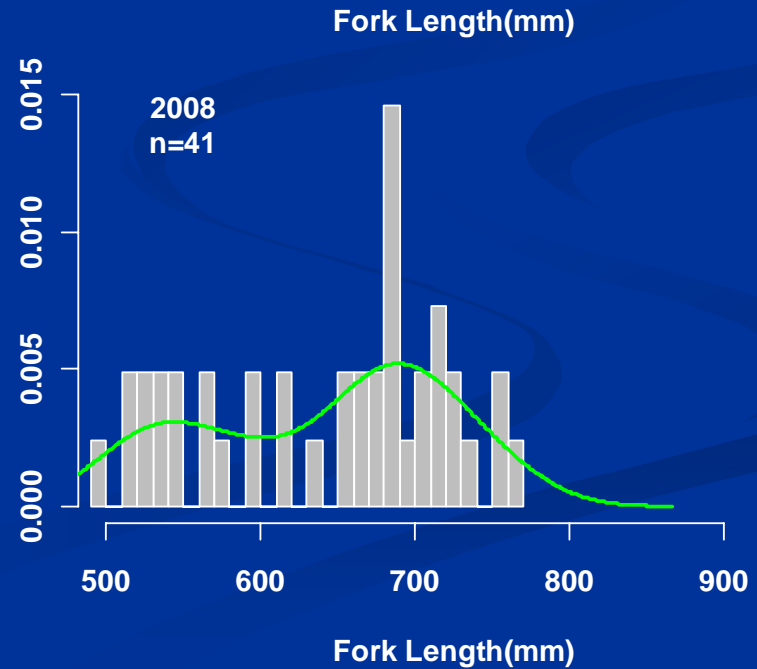
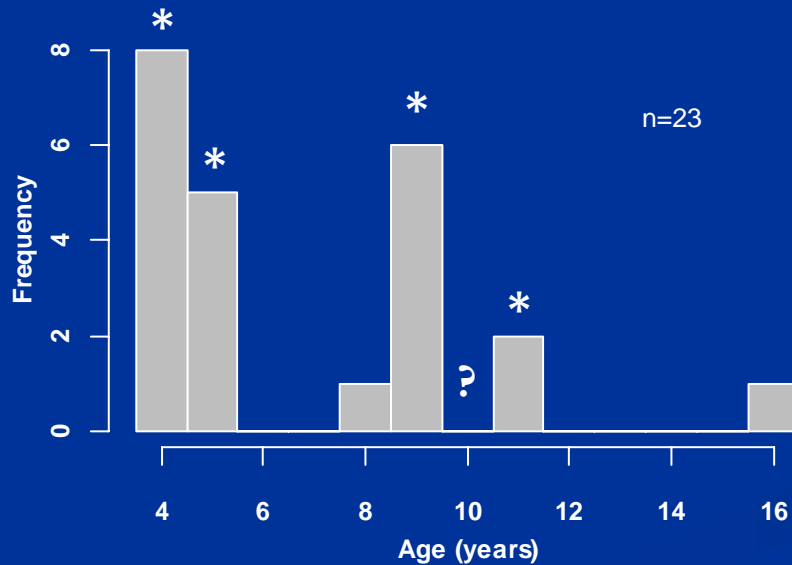


Limestone Islands

2006



2008



Summary

- Georgian Bay
 - Stocking remains high and stable
 - CPUE dropped precipitously
- Main Basin
 - CPUE is low but continues to trend upward
 - Proportion of unclipped fish is increasing
- Mean length-at-age reduced
- CPUE in recent targeted assessments has been low



Recent Trends In Lake Trout Abundance

- CPUE and catches continue to decline
- ICR from commercial efforts down
- Recreational CPUE declining
- Proportion of unclipped fish is increasing

