SEDAR 66 South Atlantic Golden Tilefish
Data available

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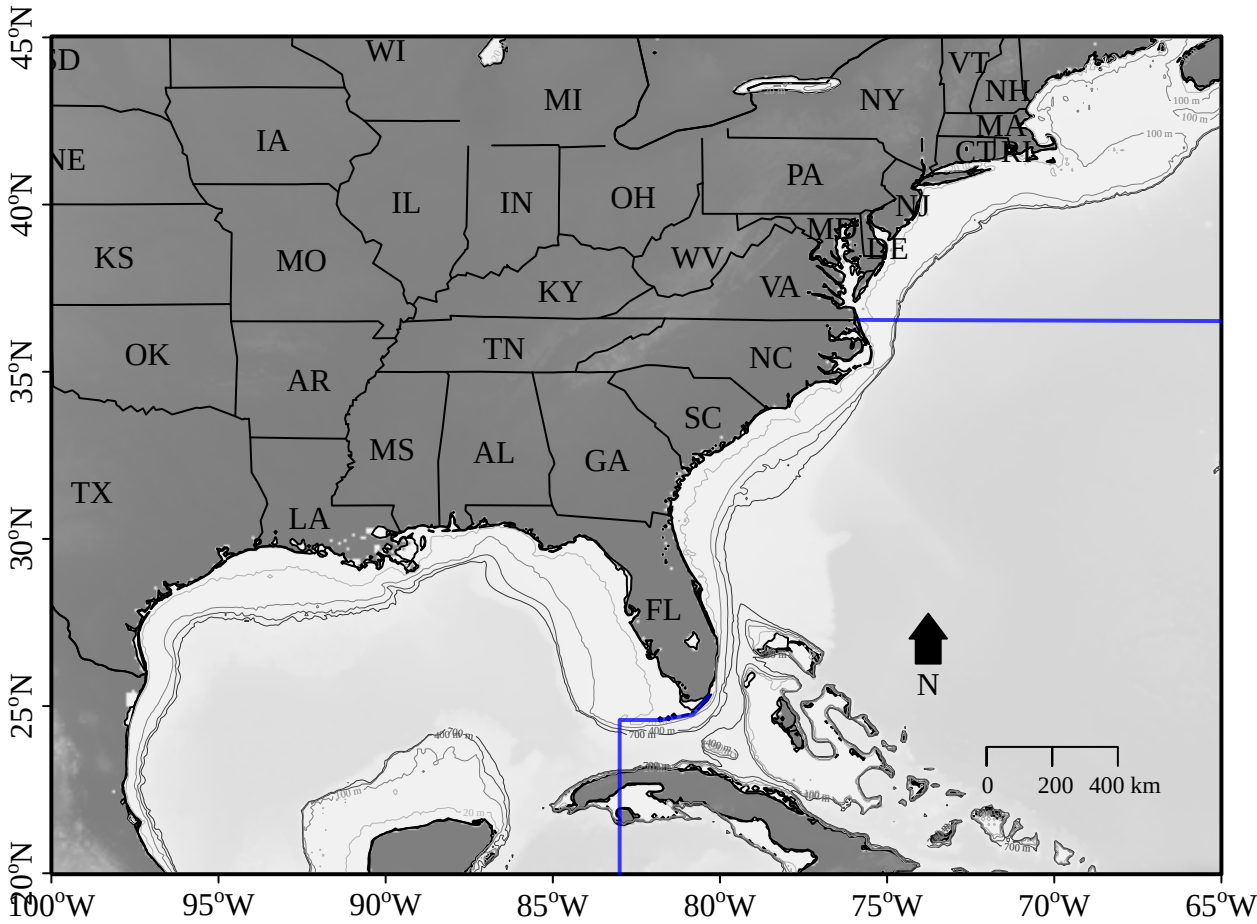
Introduction

- Stock unit definition: GMFMC-SAFMC (including Monroe County FL) to SAFMC-MAFMC council boundary (VA/NC line)
- Time line for assessment: 1962-2018
- Values in presentation represent data sets submitted and available for SEDAR 66 but will not necessarily all be used in the assessment model
- Life history information has not changed since SEDAR 25, 2016 Update

Introduction

Stock Unit

- "Because no evidence exists to change the existing line, the Workgroup recommends using the VA/NC line as the northern boundary for the South Atlantic golden tilefish stock."
  -SEDAR 25 DW Report
- "The Workgroup recommends using Monroe County, FL inclusive as the southern boundary for the South Atlantic golden tilefish stock."
  -SEDAR 25 DW Report

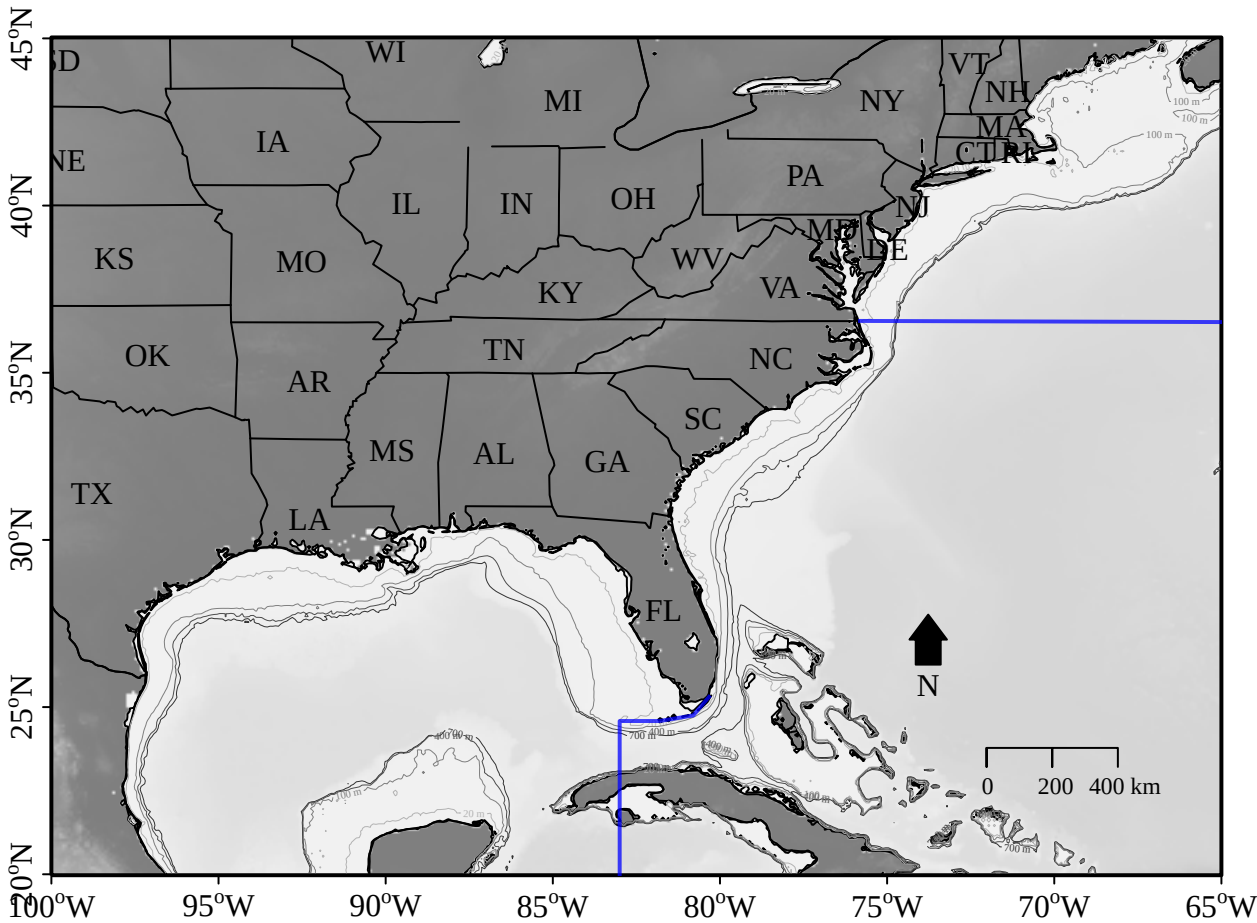


Blue lines indicate rough Council boundaries

Introduction

Stock Unit

- Based on discussion during the SEDAR 66 data scoping call:
  - Data providers will include data based on Council boundaries when possible
  - Data providers supplying data in Florida waters who are unable to divide data along the GMFMC-SAFMC Council boundary will include data for Monroe County FL



Blue lines indicate rough Council boundaries

Data

General

- Assessment type: operational
- Terminal year: 2018
- Management History
  POC: Kathleen Howington
- MSST definition
  POC: Mike Errigo

Data

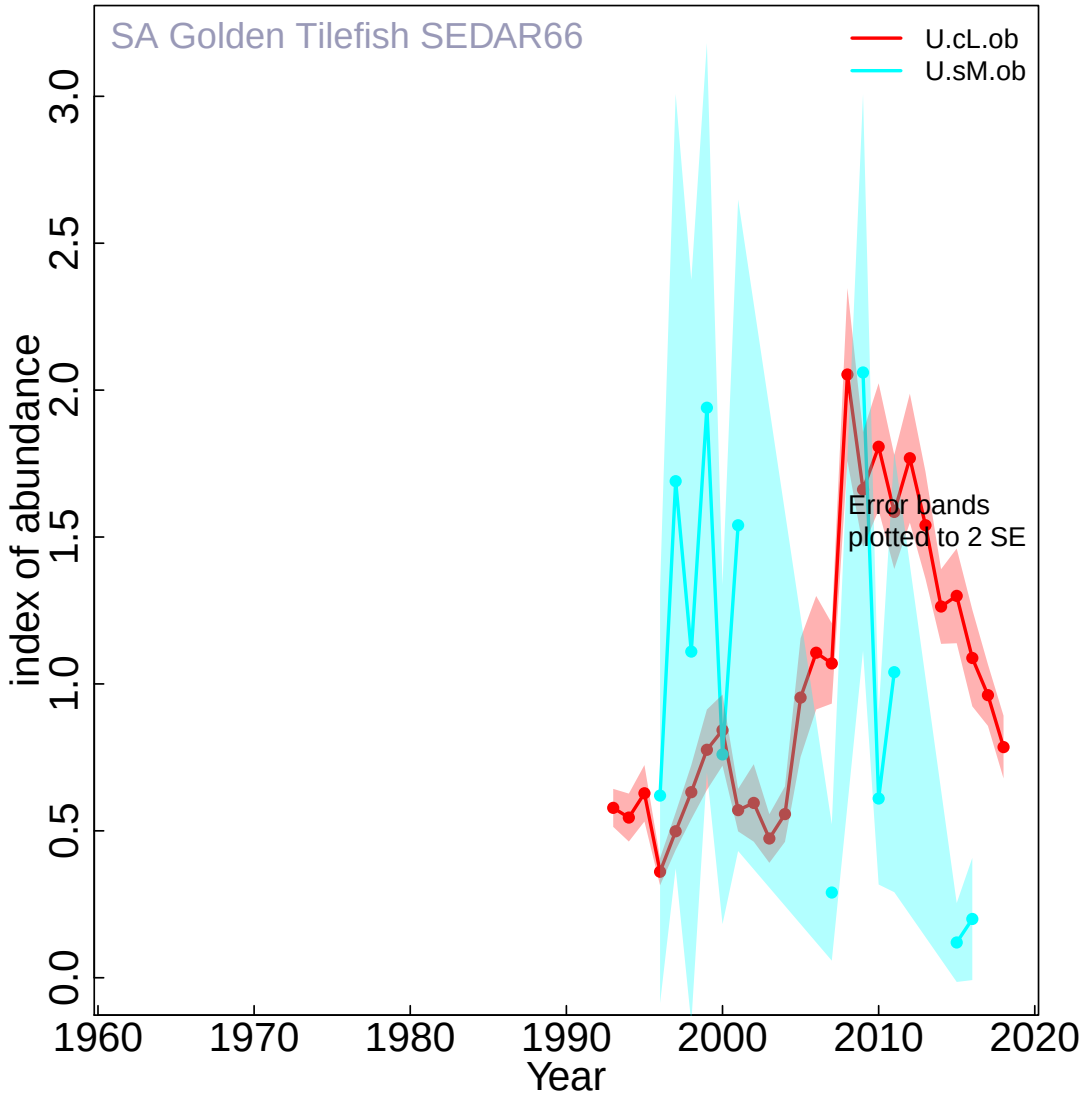
New Data Sources

- ToR2, bullet 4:
  - "Investigate the potential use of the following new data sources
    - CRP Cooperative Bottom Longline Survey to Augment Fishery Independent Reef Fish Data Collection in Deepwater Snapper Grouper
    - G. Nesslage FATE project"
- POC CRP Bottom Longline Survey: Wally Bubley
  - Data from this study are not available for SEDAR 66
- POC G. Nesslage FATE project: Genny Nesslage
  - Data from this study are not available for SEDAR 66

Data

Indices of abundance

- commercial longline (cL)
  POC: Eric Fitzpatrick
- MARMAP long-bottom (a.k.a. horizontal) longline survey (sM)
  POC: Wally Bubley

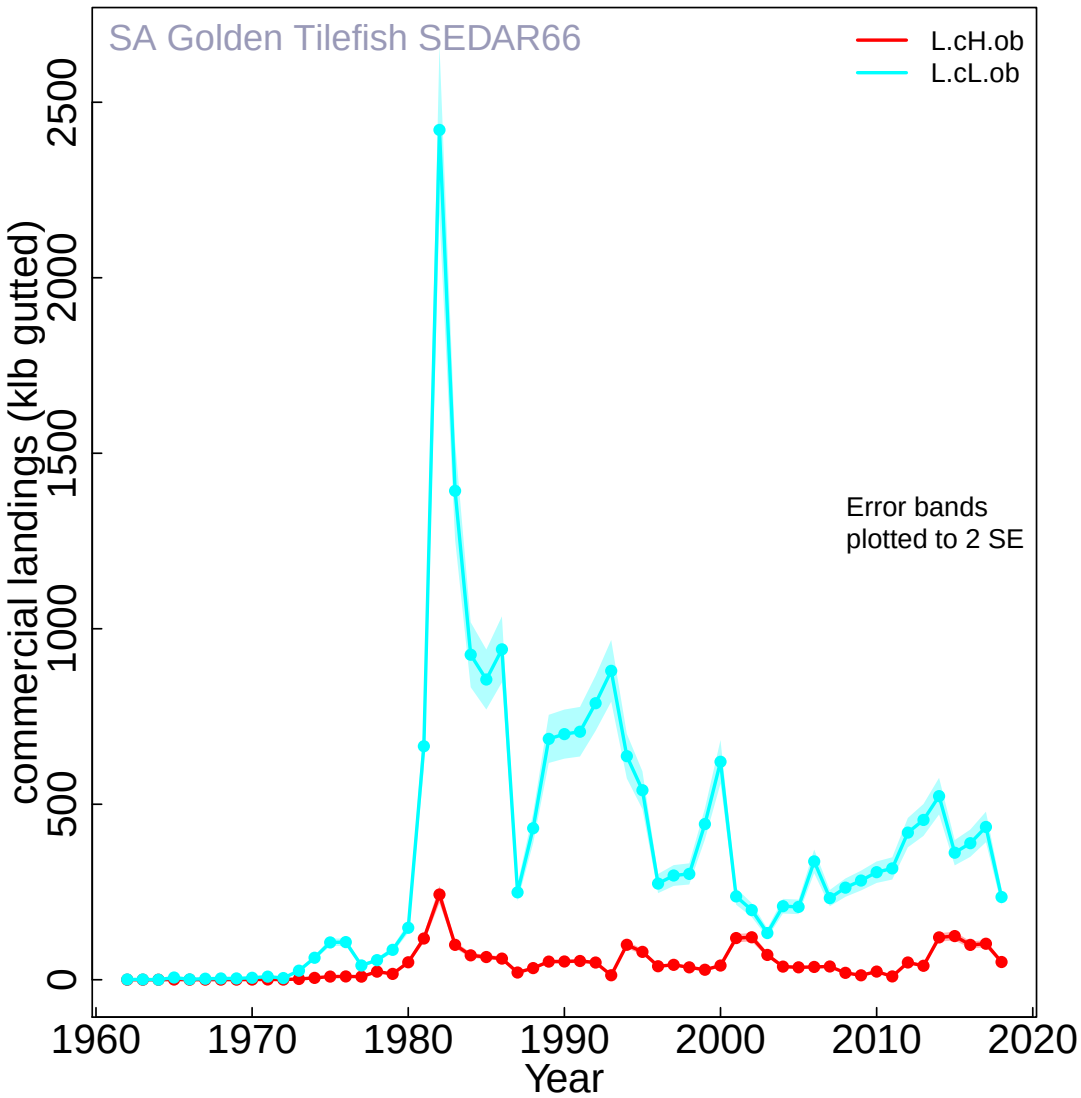


Data

Removals

Commercial landings by fleet

- commercial handline (cH)
  POC: Beth Wrege
- commercial longline (cL)
  POC: Beth Wrege

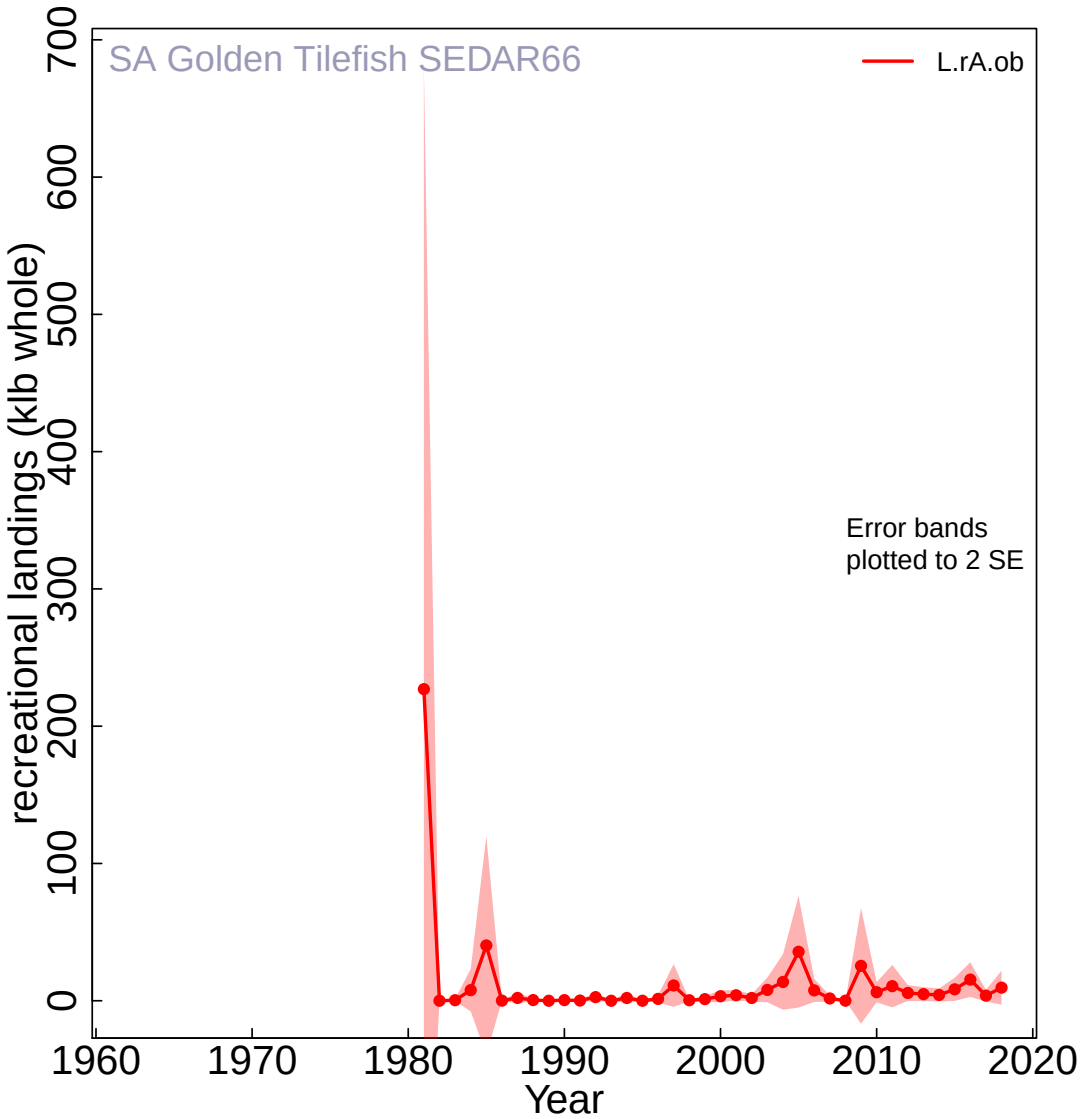


Data

Removals

Recreational landings by fleet

- recreational all (rA)
  POC (headboat):
  Kelly Fitzpatrick
  POC (MRIP):
  Matthew Nuttall



Discards

- Discards were not included in previous assessments, due to negligible rates of discarding
- Commercial discards were negligible according to Kevin McCarthy (documentation, including tables, are available)
- Headboat at-sea discards were negligible according to Dominique Lazarre
- Discards will not be modeled in SEDAR 66

Data

Age composition

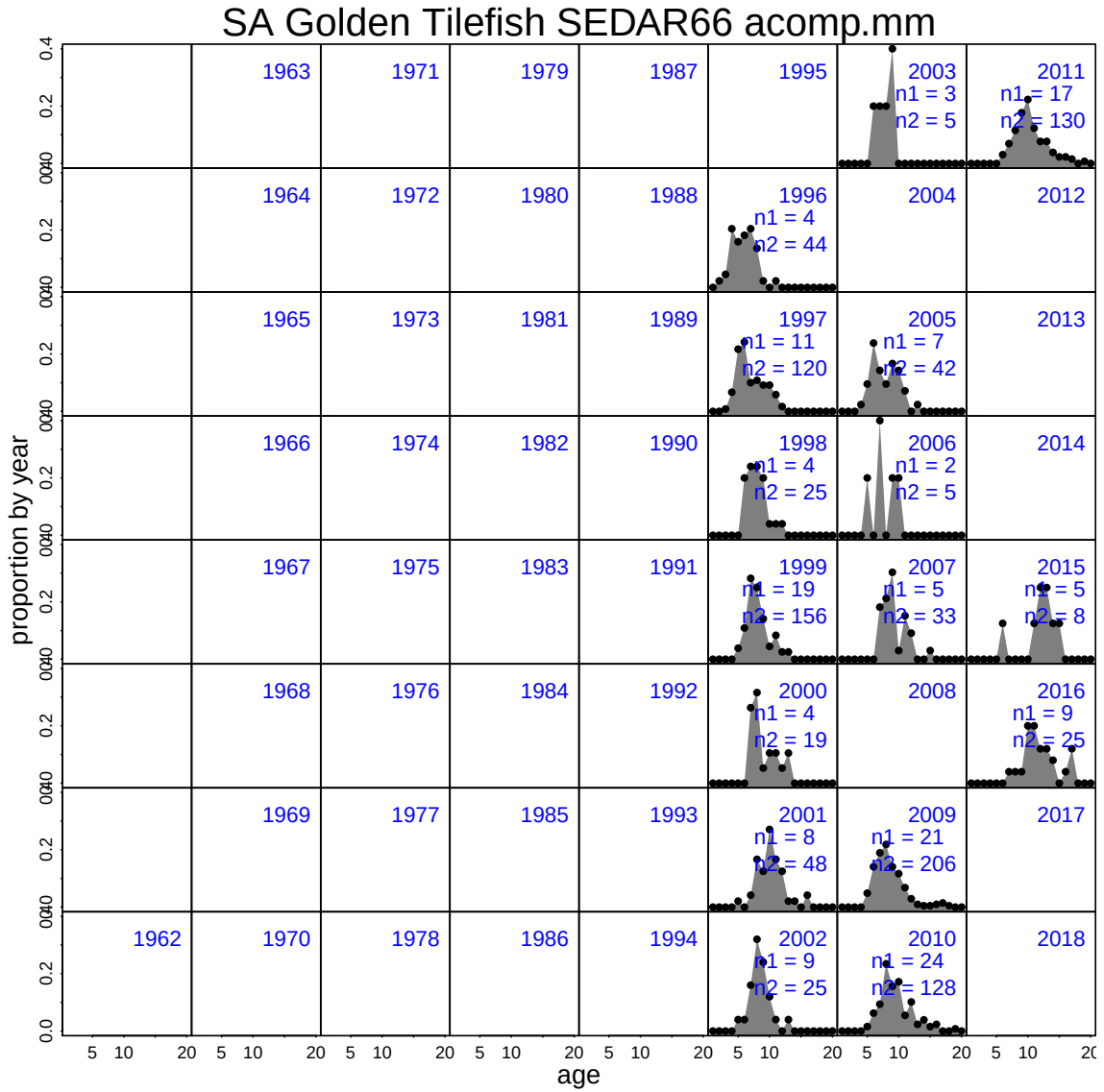
- Age type
  - Increment age
- Age range
  - 1-25 years used in SEDAR 25, 2016 Update
  - The plus group will be reconsidered in SEDAR 66
  - Age composition data should be provided to the full range of ages available (i.e. outside the range used in previous assessments)

Data

Age composition

MARMAP (sM)

- POC: Wally Bubley
- MARMAP long-bottom (a.k.a. horizontal) longline survey (sM)

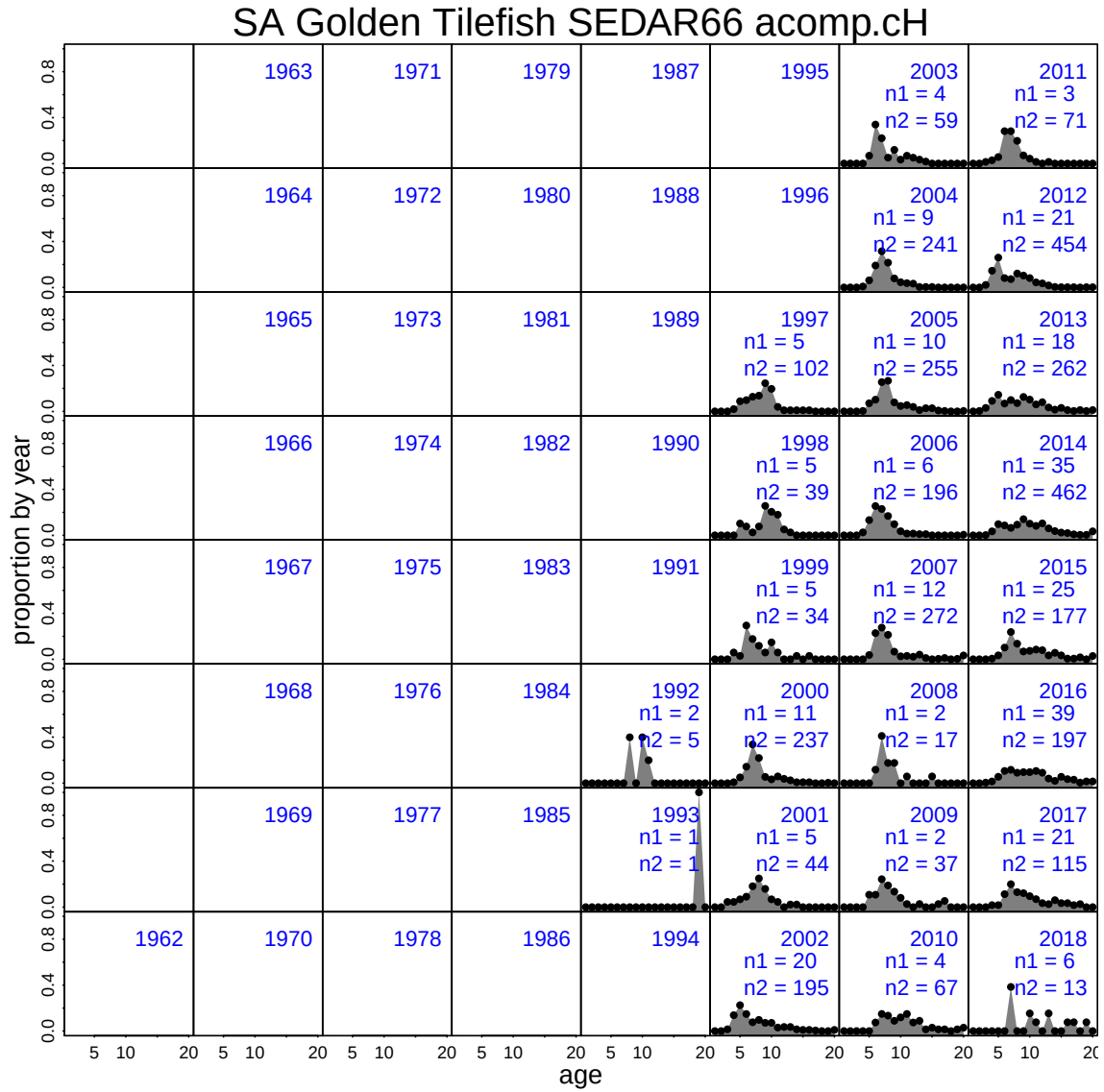


Data

Age composition

commercial handline (cH)

- POC: Eric Fitzpatrick

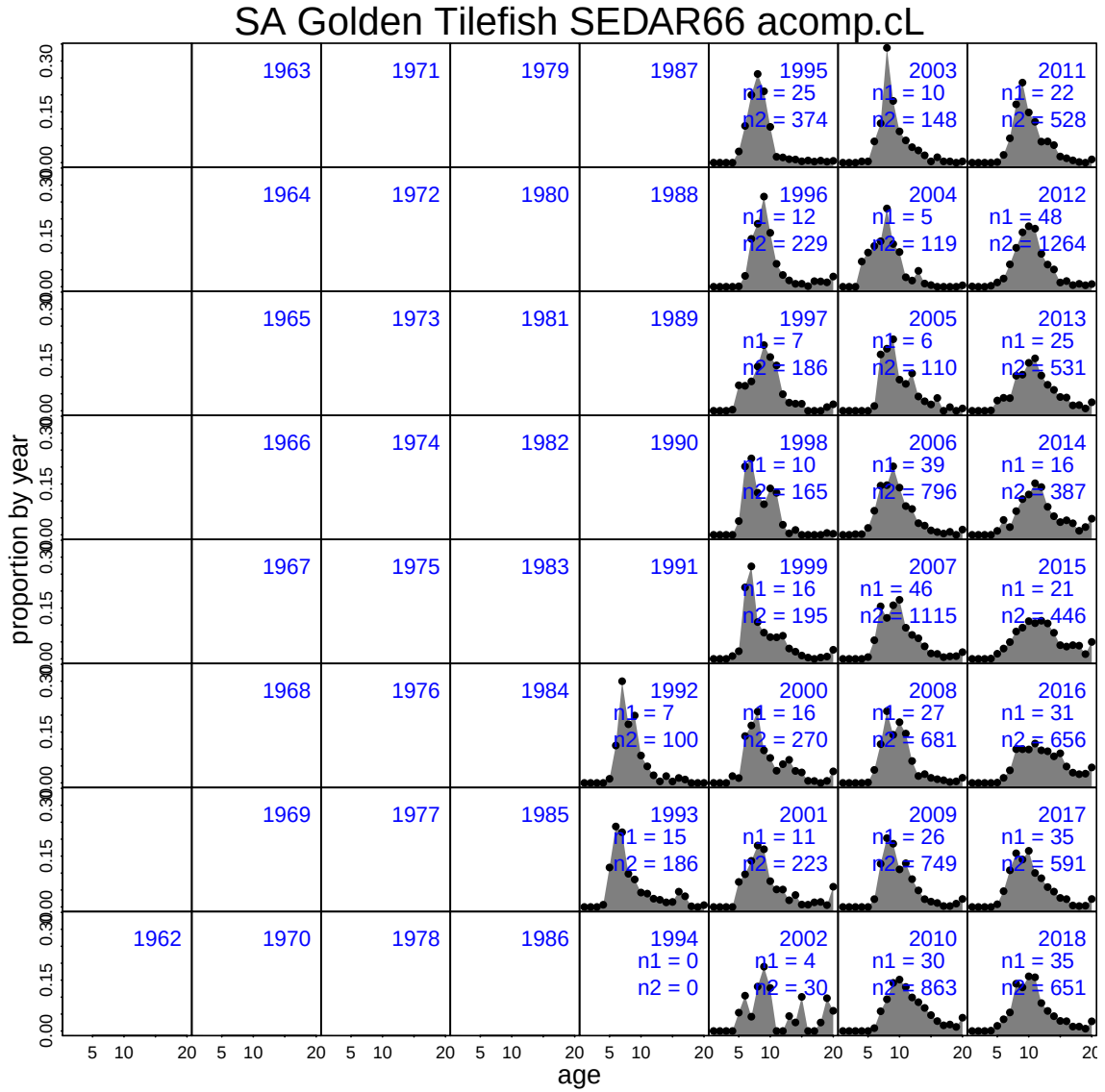


Data

Age composition

commercial longline (cL)

- POC: Eric Fitzpatrick



Data

Length composition

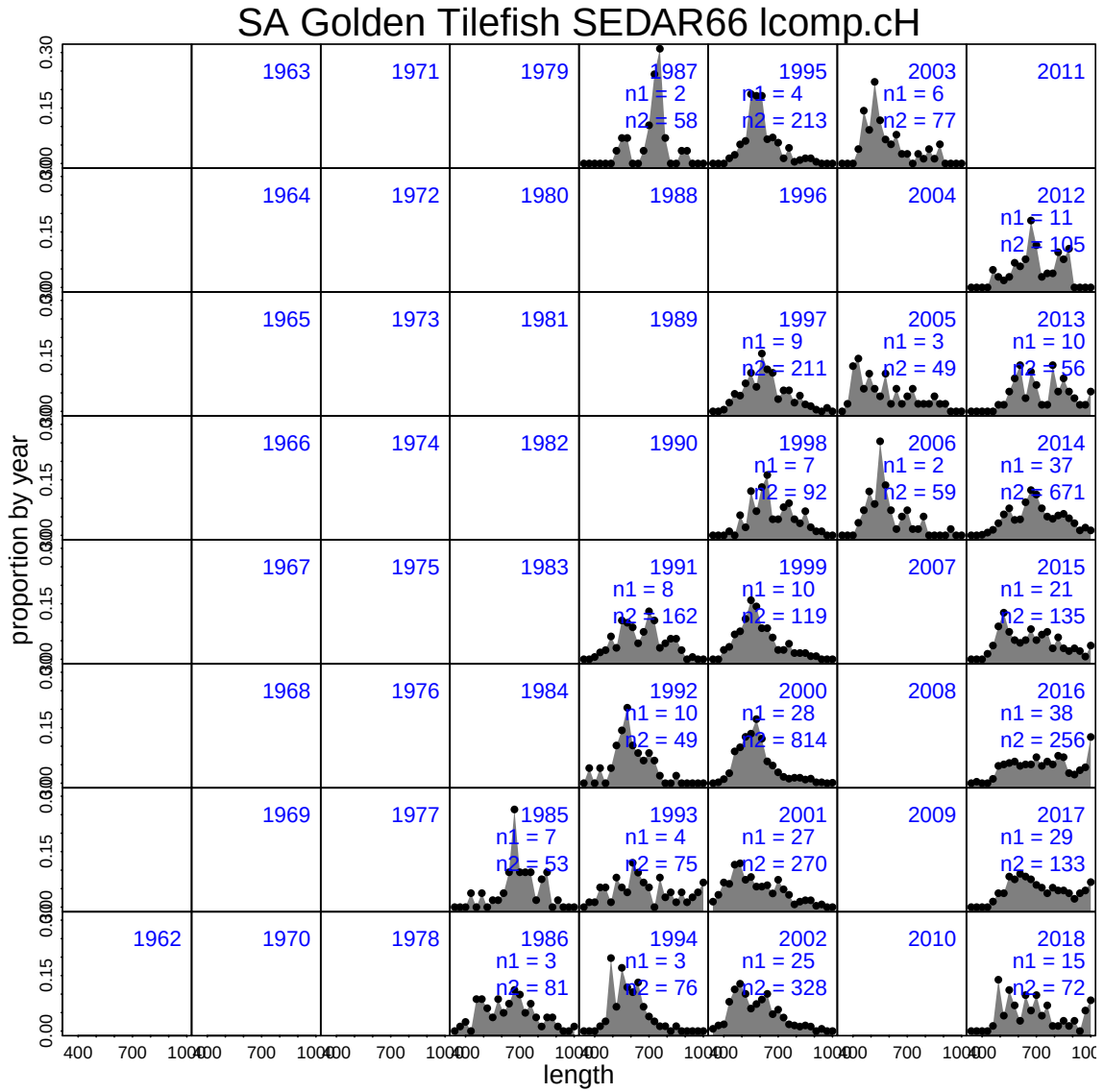
- Length type
  - total length (TL)
- Length bins
  - 30 mm
- Length range
  - $340 - 1000$ mm

Data

Length composition

commercial handline (cH)

- POC: Eric Fitzpatrick
- 30 mm (TL) bins
- 340 - 1000 mm (TL)

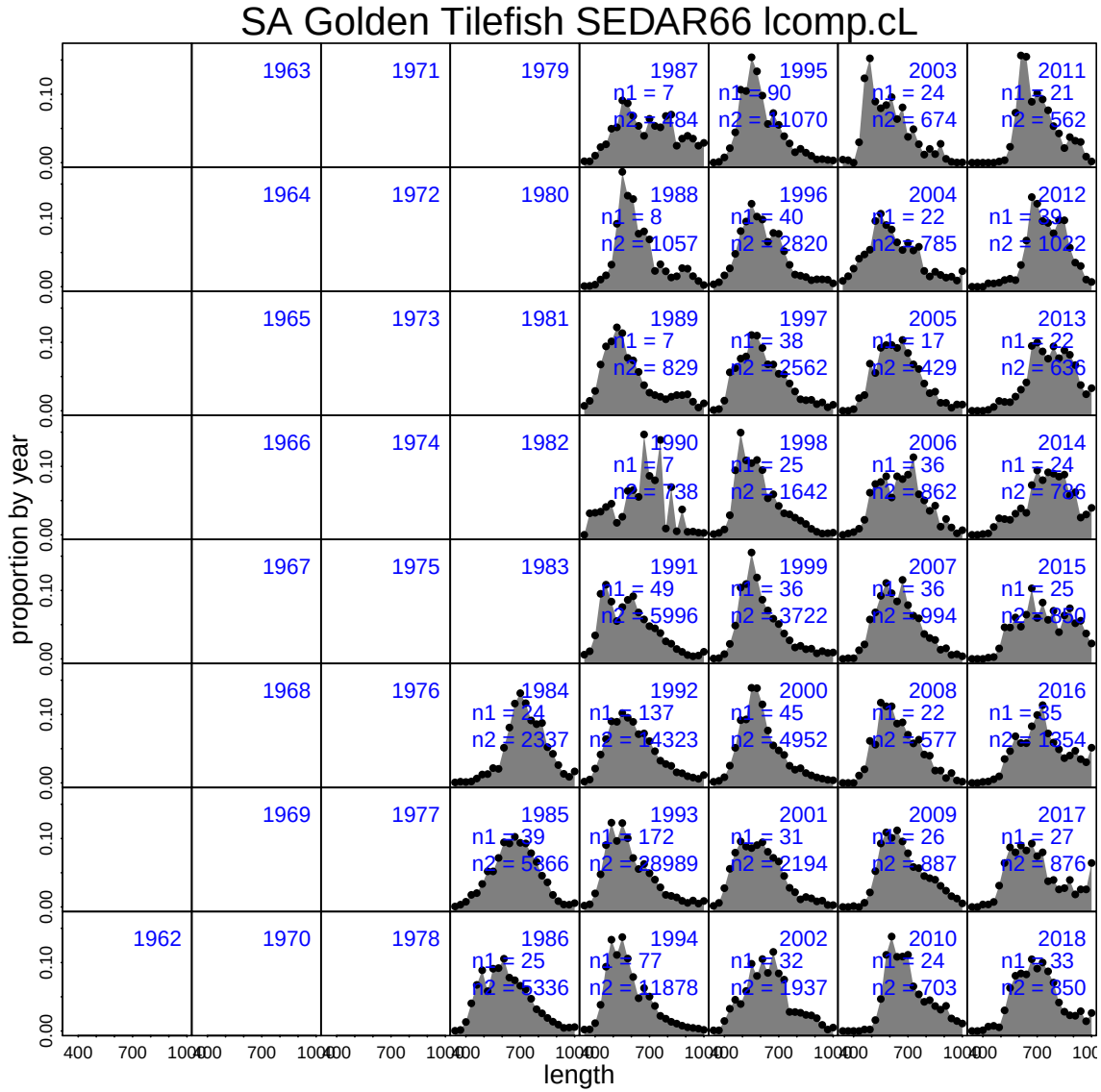


Data

Length composition

commercial longline (cL)

- POC: Eric Fitzpatrick
- 30 mm (TL) bins
- 340 - 1000 mm (TL)

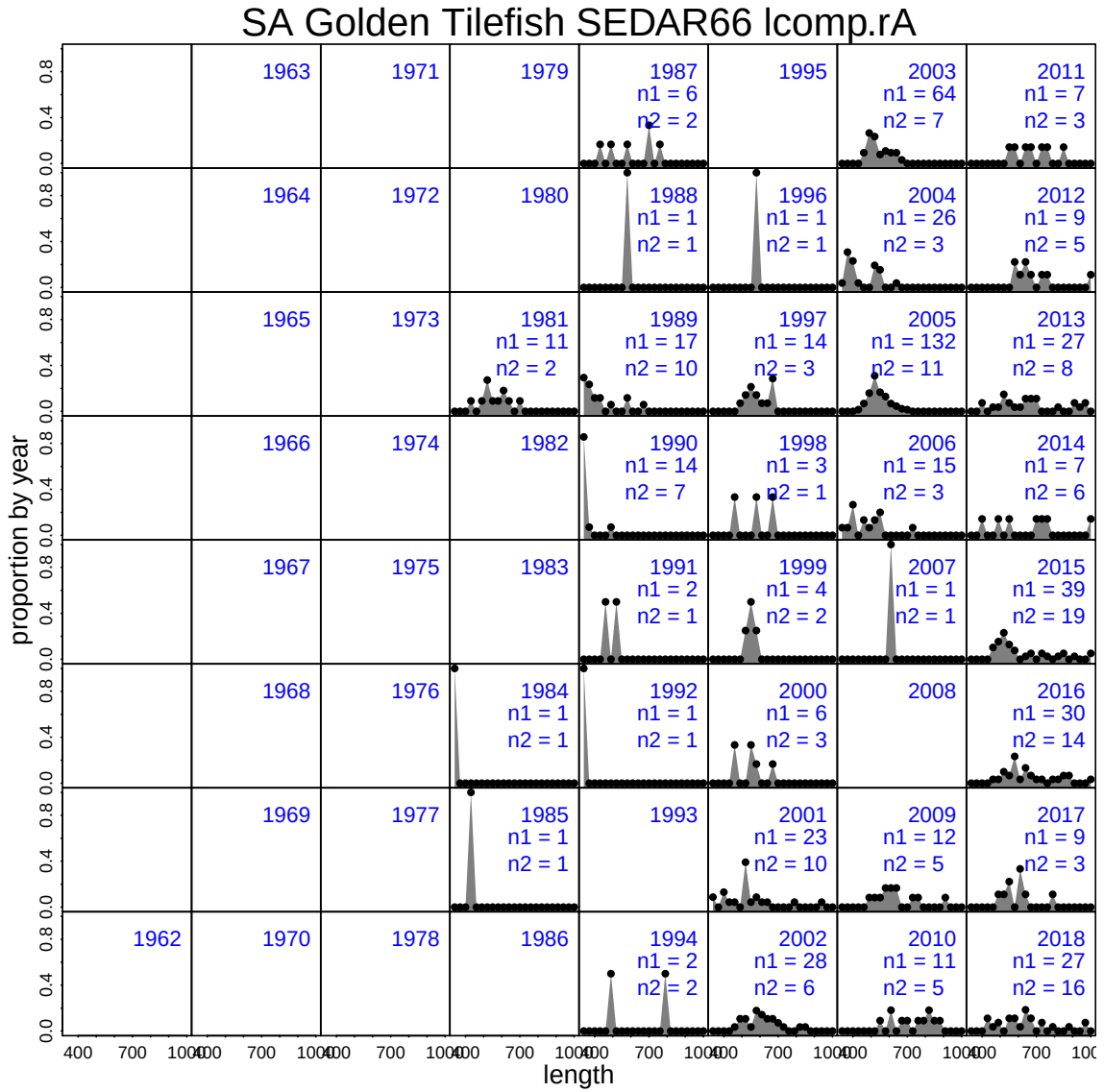


Data

Length composition

recreational all (rA)

- POC: Kelly Fitzpatrick
- 30 mm (TL) bins
- 340 - 1000 mm (TL)



Data

Life history

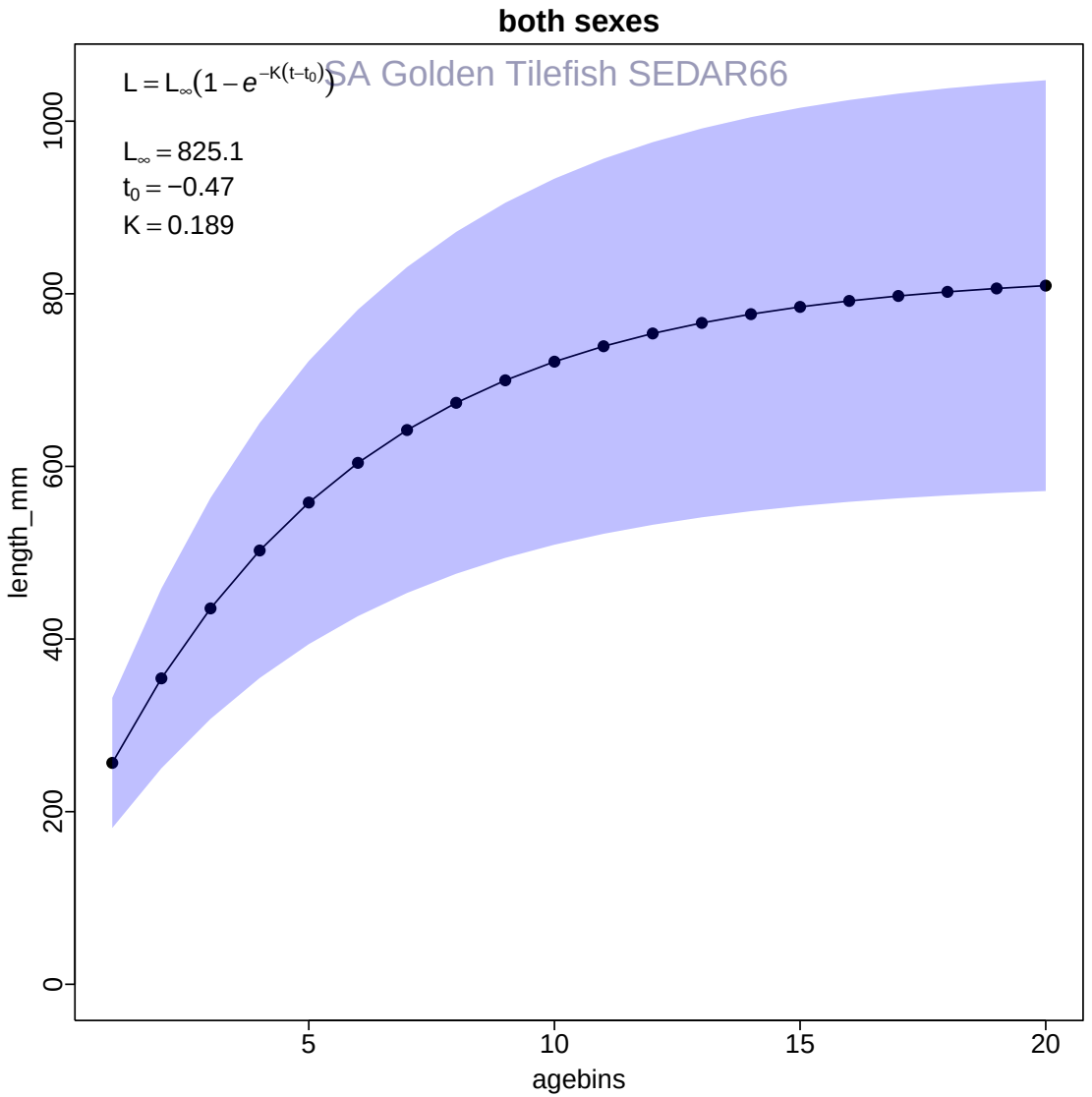
- $W_{\text{fishWhole}} = aL^b$
  $a = 4.04E-6$, $b = 3.155$
  $W_{\text{fishWhole}}$ = whole fish weight (g)
  L = TL (mm)
  POC: NA
- $W_{\text{gonad}} = aW_{\text{fishWhole}}^b$
  $a = -9.16802$, $b = 1.70498$
  W_{gonad} = gonad weight (g)
  POC: NA
- $W_{\text{fishWhole}} = aW_{\text{fishGutted}}$
  $a = 1.05893$
  $W_{\text{fishGutted}}$ = gutted fish weight (g)
  POC: NA
- Time of (peak) spawning = May 31^{st}
  $spawn\_time\_frac = 5/12 = 0.42$
  POC: NA

Data

Life history

Von Bertalanffy growth equation

- both sexes
- Total length (TL) in mm
- POC: Jennifer Potts, Walt Rogers

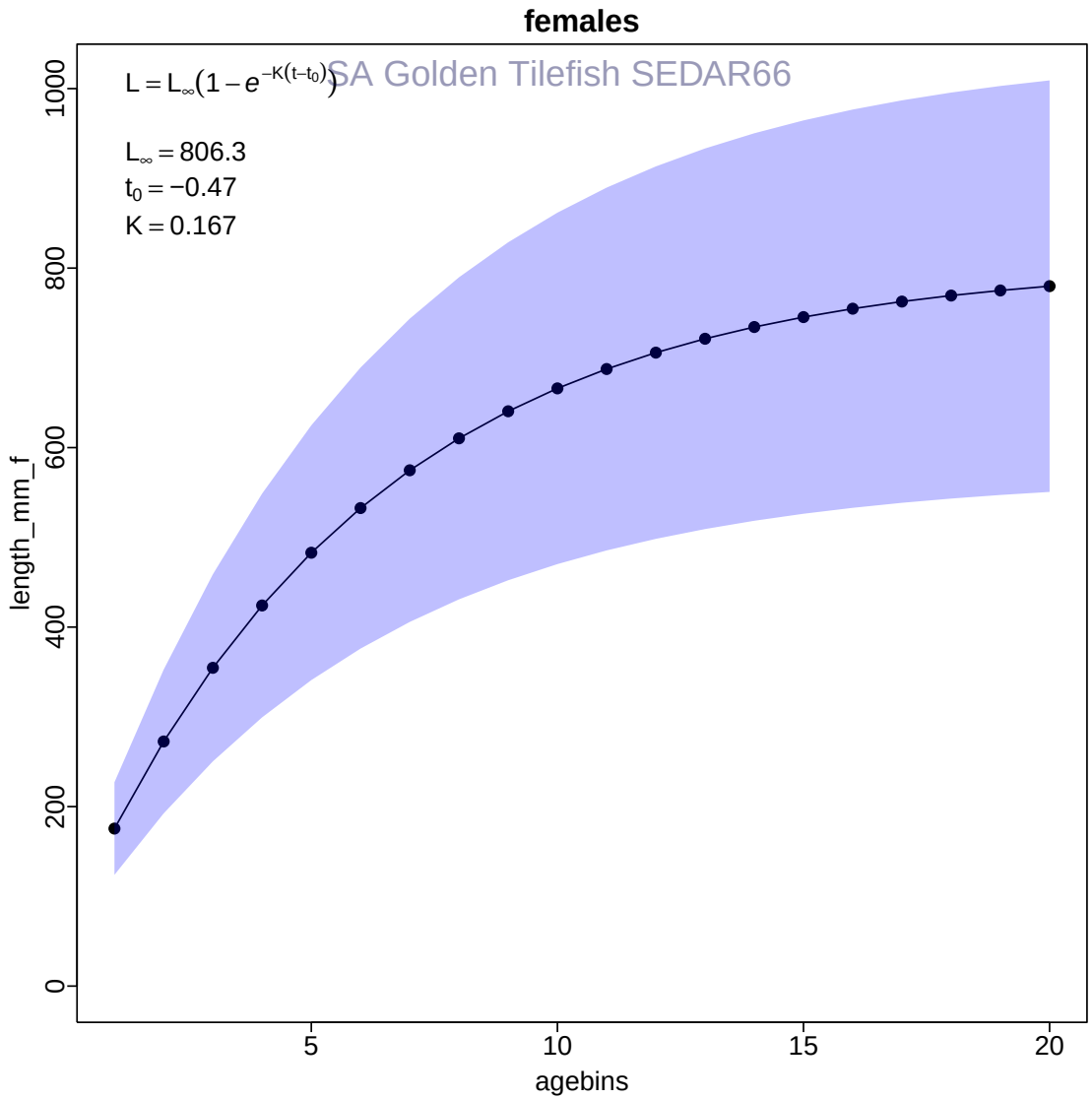


Data

Life history

Von Bertalanffy growth equation

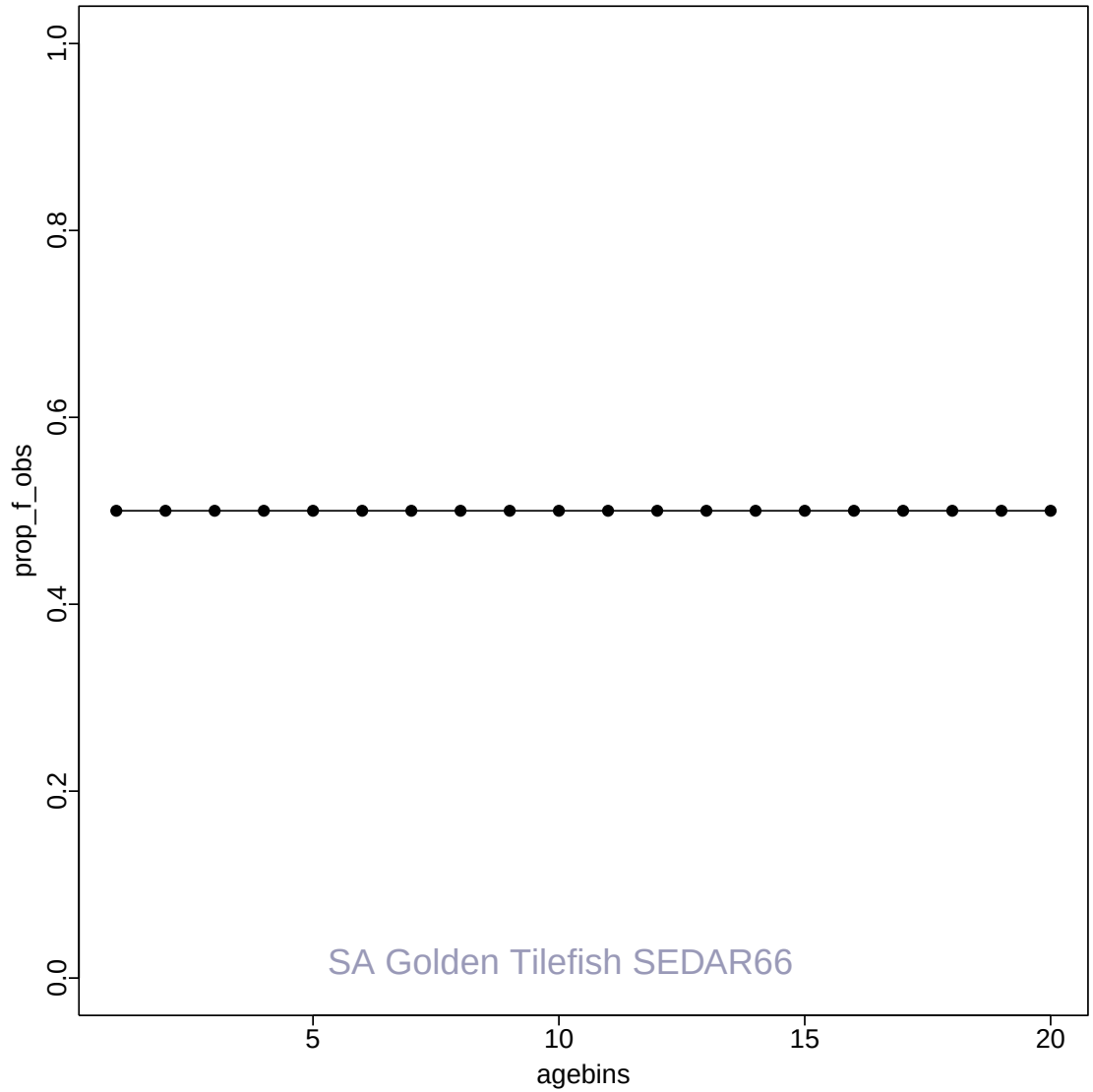
- females
- Total length (TL) in mm
- POC: Jennifer Potts, Walt Rogers



Data

Life history

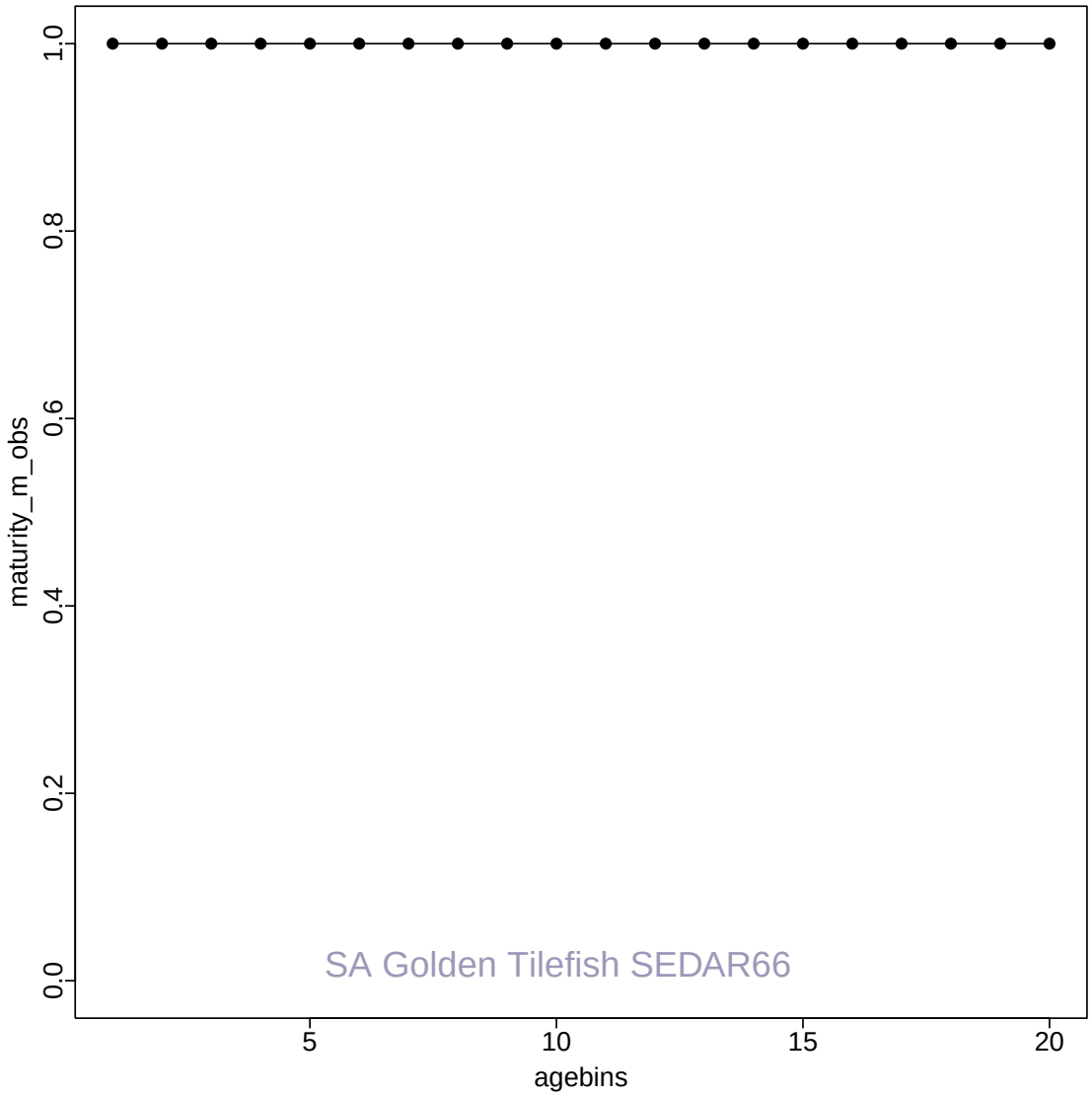
Proportion female
POC: NA



Data

Life history

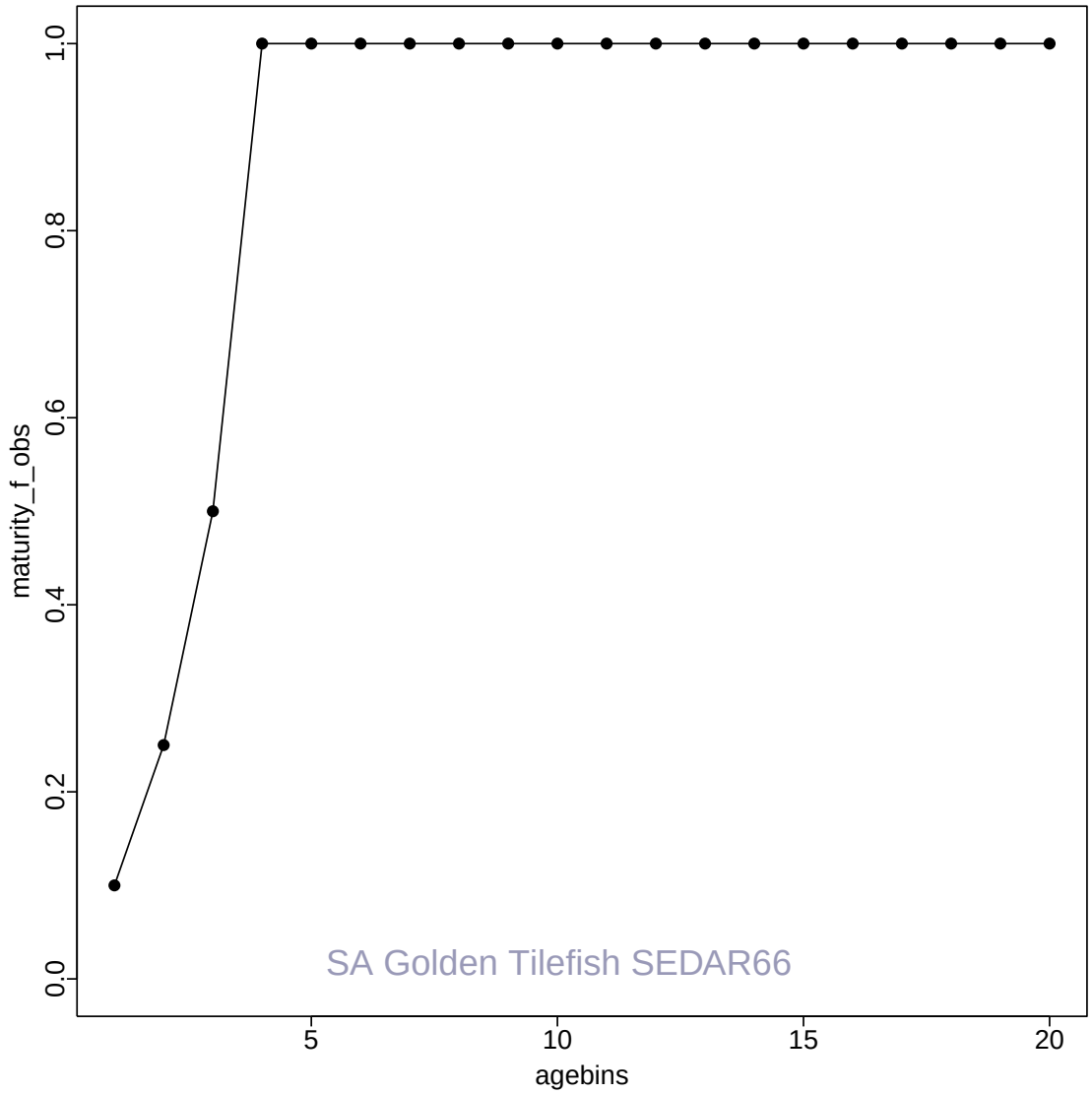
Proportion of males mature
POC: NA



Data

Life history

Proportion of females mature
POC: NA



Natural mortality

- Solid line indicates M-at-age vector
- Shaded area indicates range of M-at-age vectors scaled by upper and lower M-constant estimates
- $t_{max} = 40$
- $M = 0.1083$
- $M_{lo} = 0.03$; $M_{up} = 0.21$
- POC: Jennifer Potts, Walt Rogers, Wally Bubley