

SZRLF 2011/12 Season Status Report



NB: All data provisional until formally released by SARDI Aquatic Sciences

2011/12 Status Report

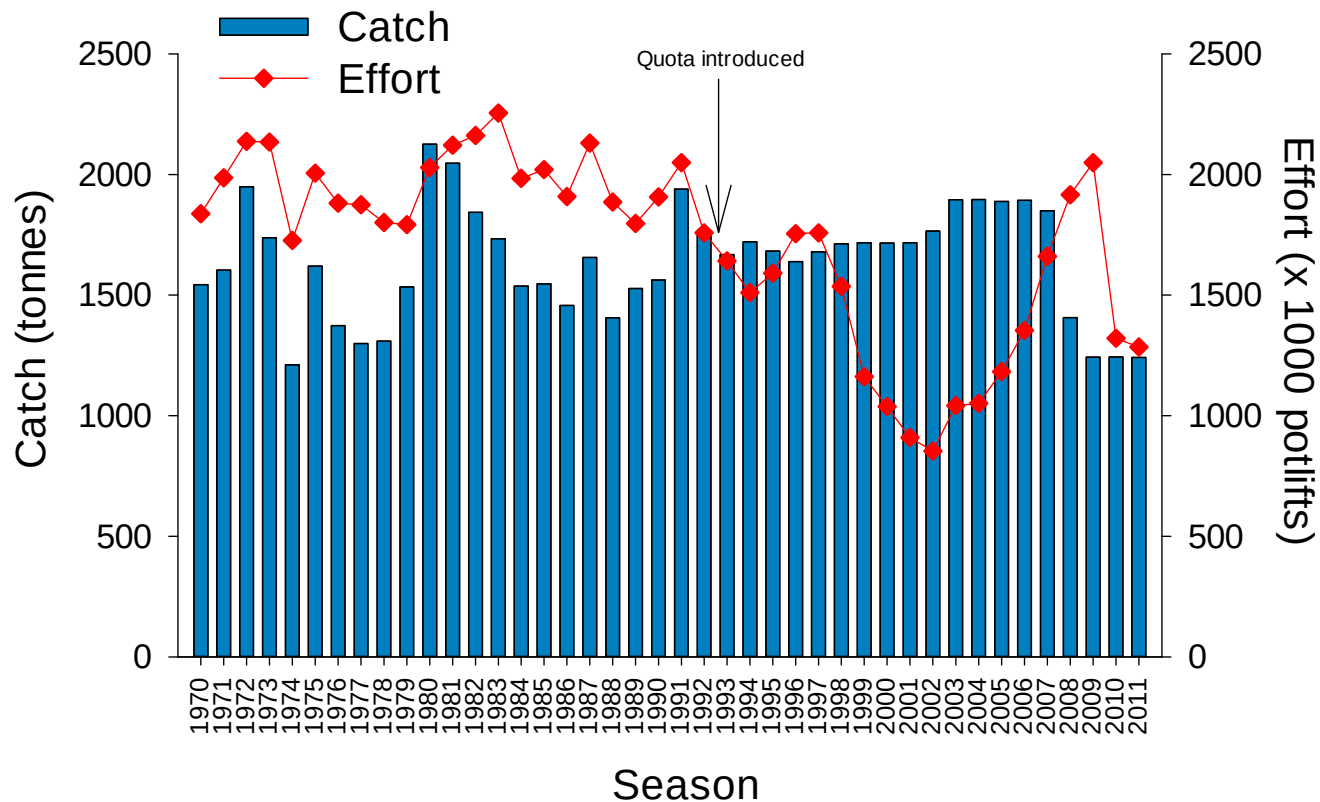


- 1) Catch & Effort Statistics
- 2) Pre-recruit indices
- 3) Size distributions
- 4) Puerulus settlement index
- 5) Fishery Independent Surveys
- 6) Harvest strategy decision rules
- 7) Summary

Zonal Catch and Effort 2011

Catch 2011 = 1,242 tonnes

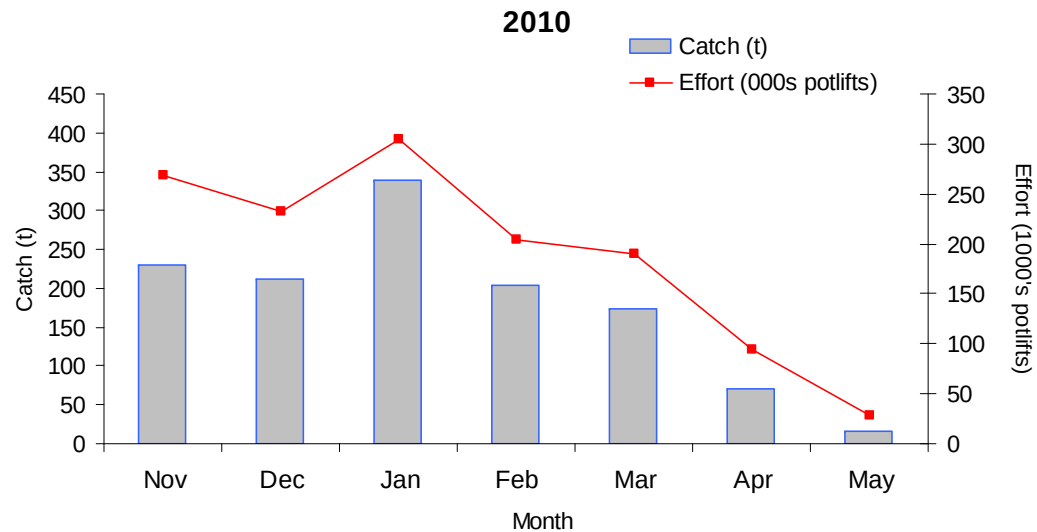
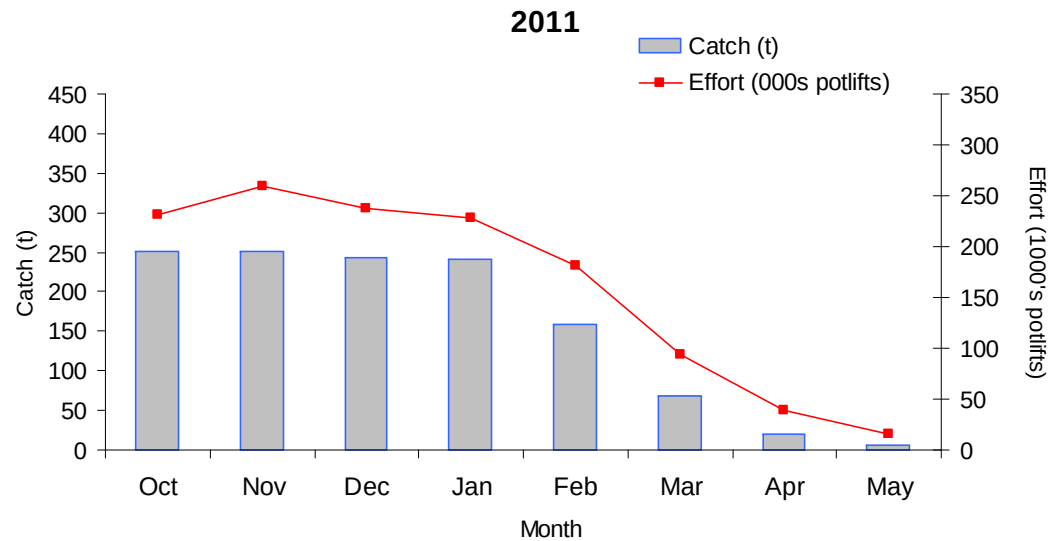
Effort in 2011 = 1,285,289 potlifts
Lowest since 2005



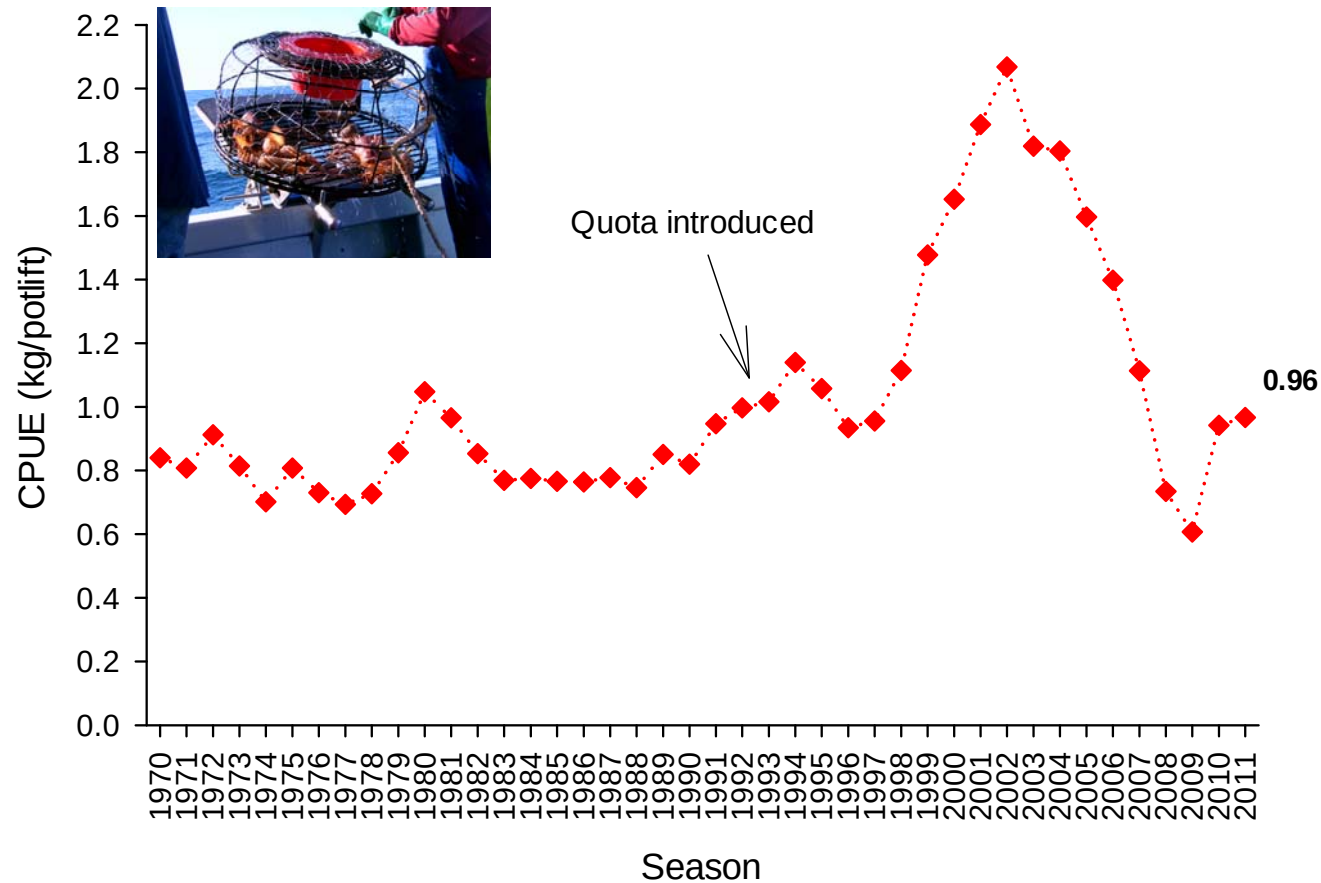
Second consecutive season that >99% of TACC taken

Effort has decreased by 37% from 2009 estimates

Within-season trends

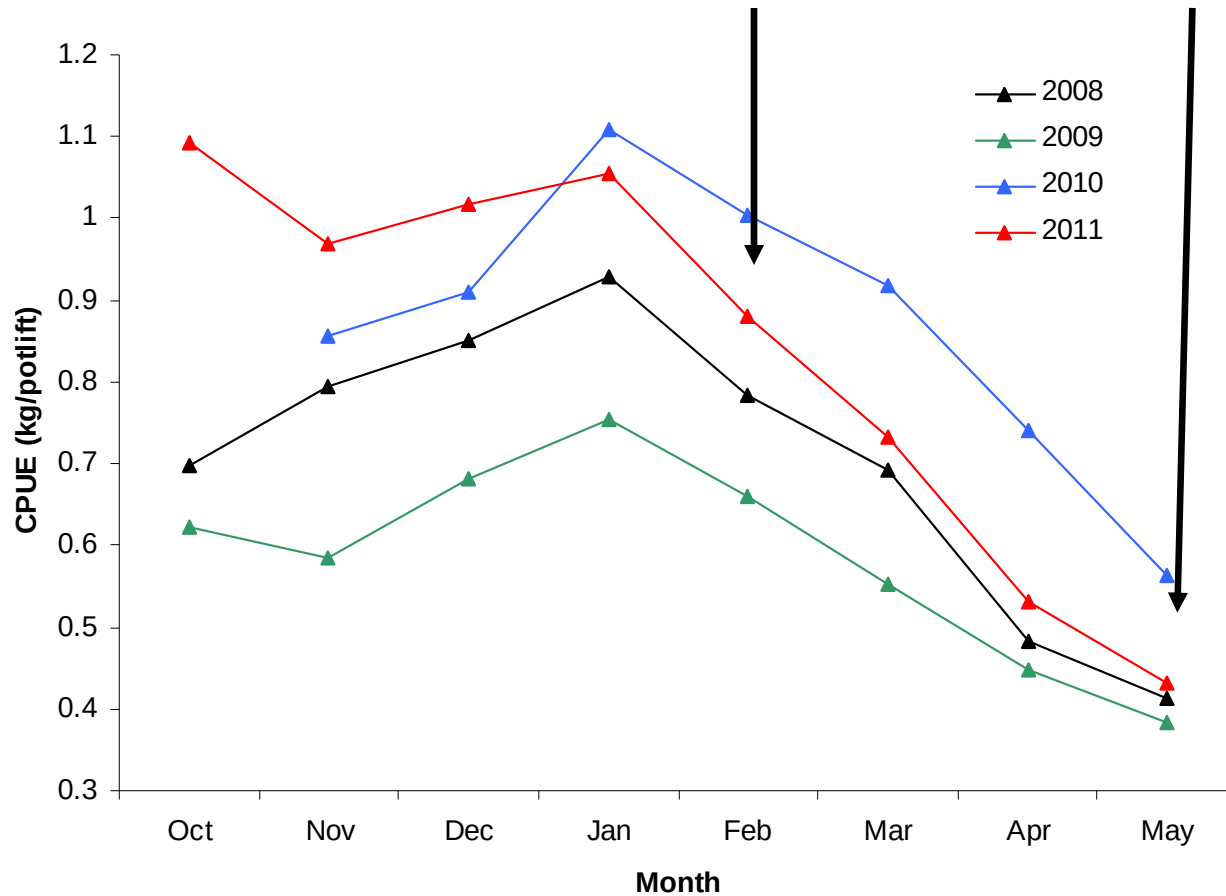


Catch per unit effort (CPUE)

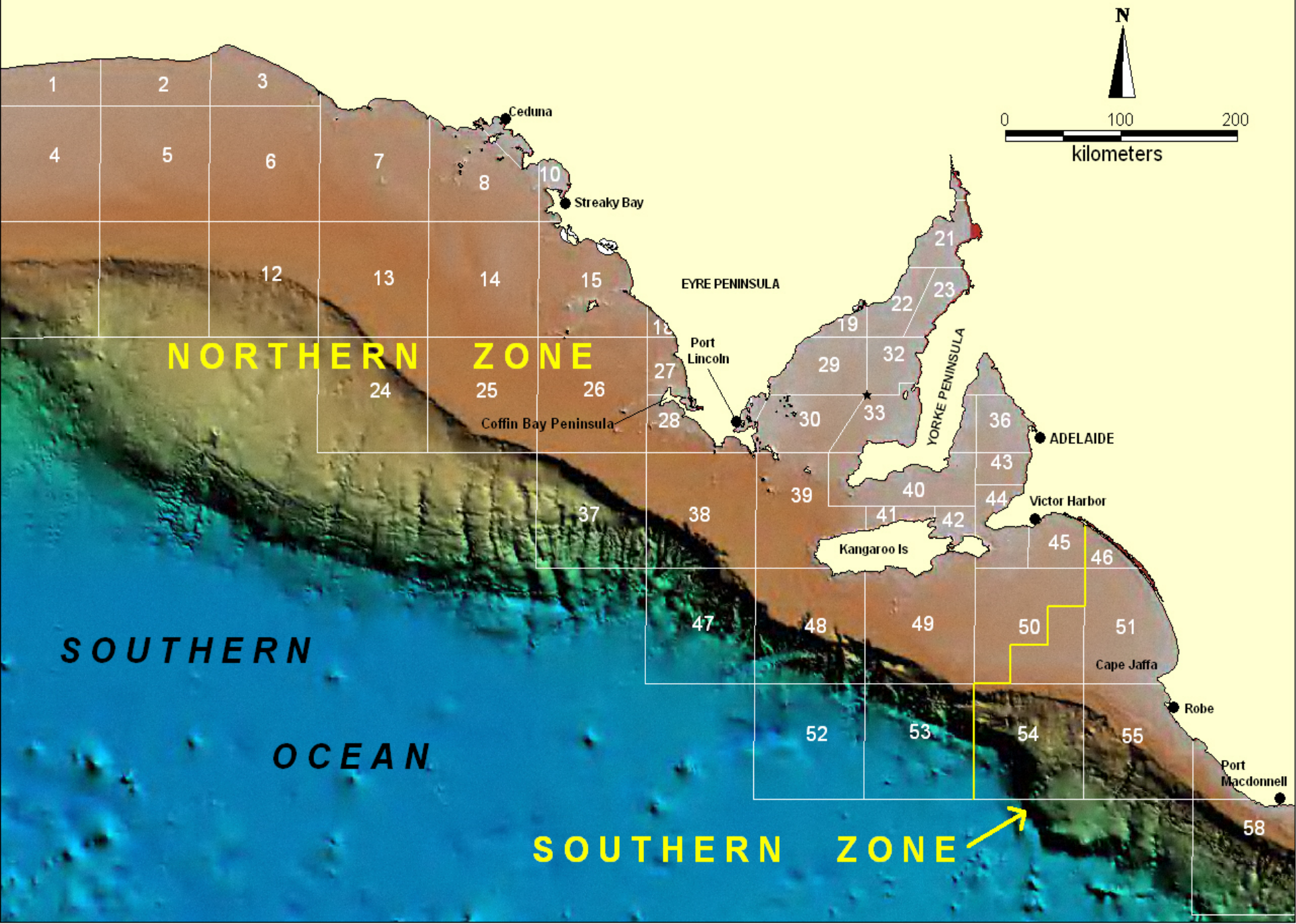


2011 CPUE reflects marginal increase (2%) from 2010

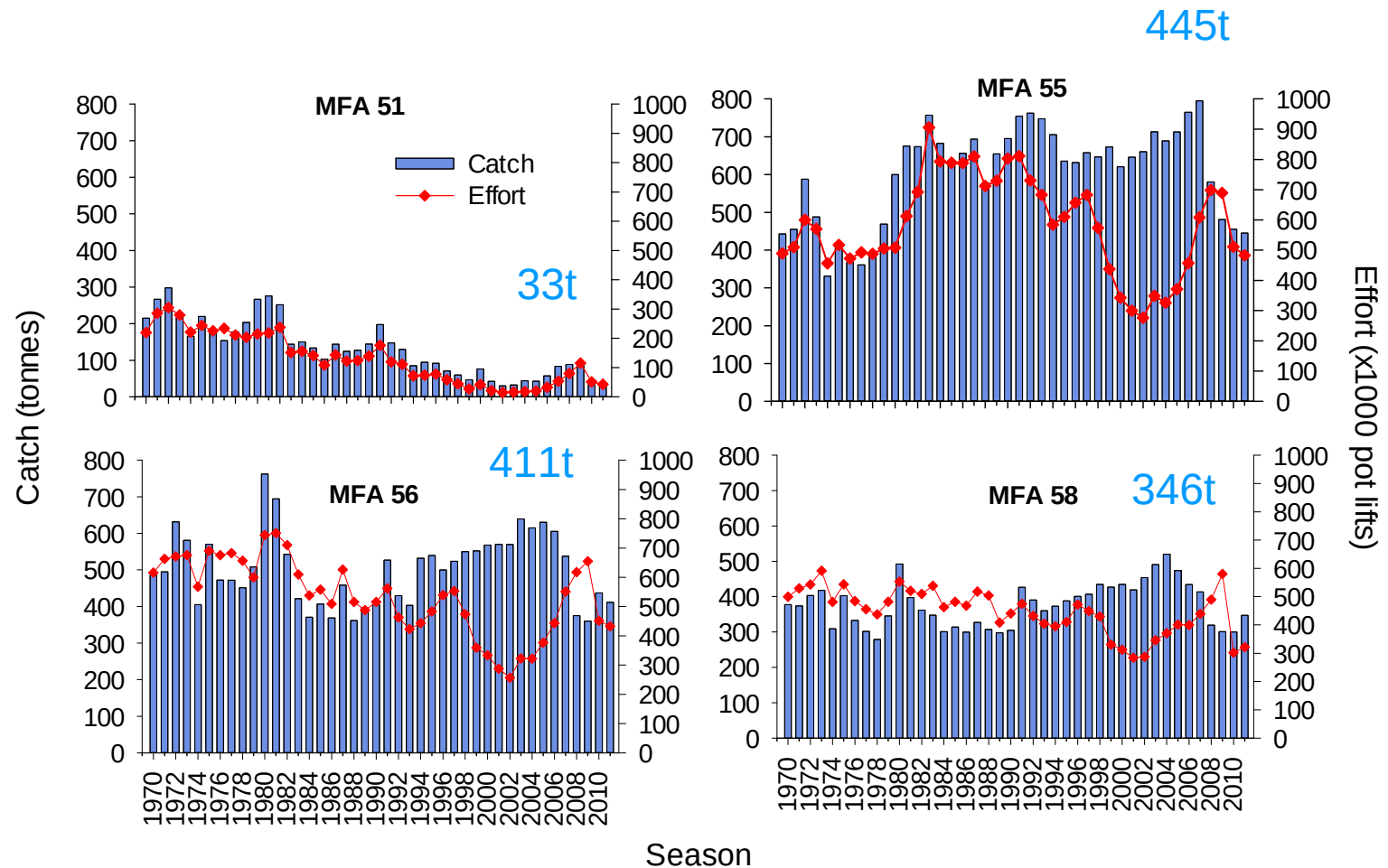
Within-season trends



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Regional Catch and Effort



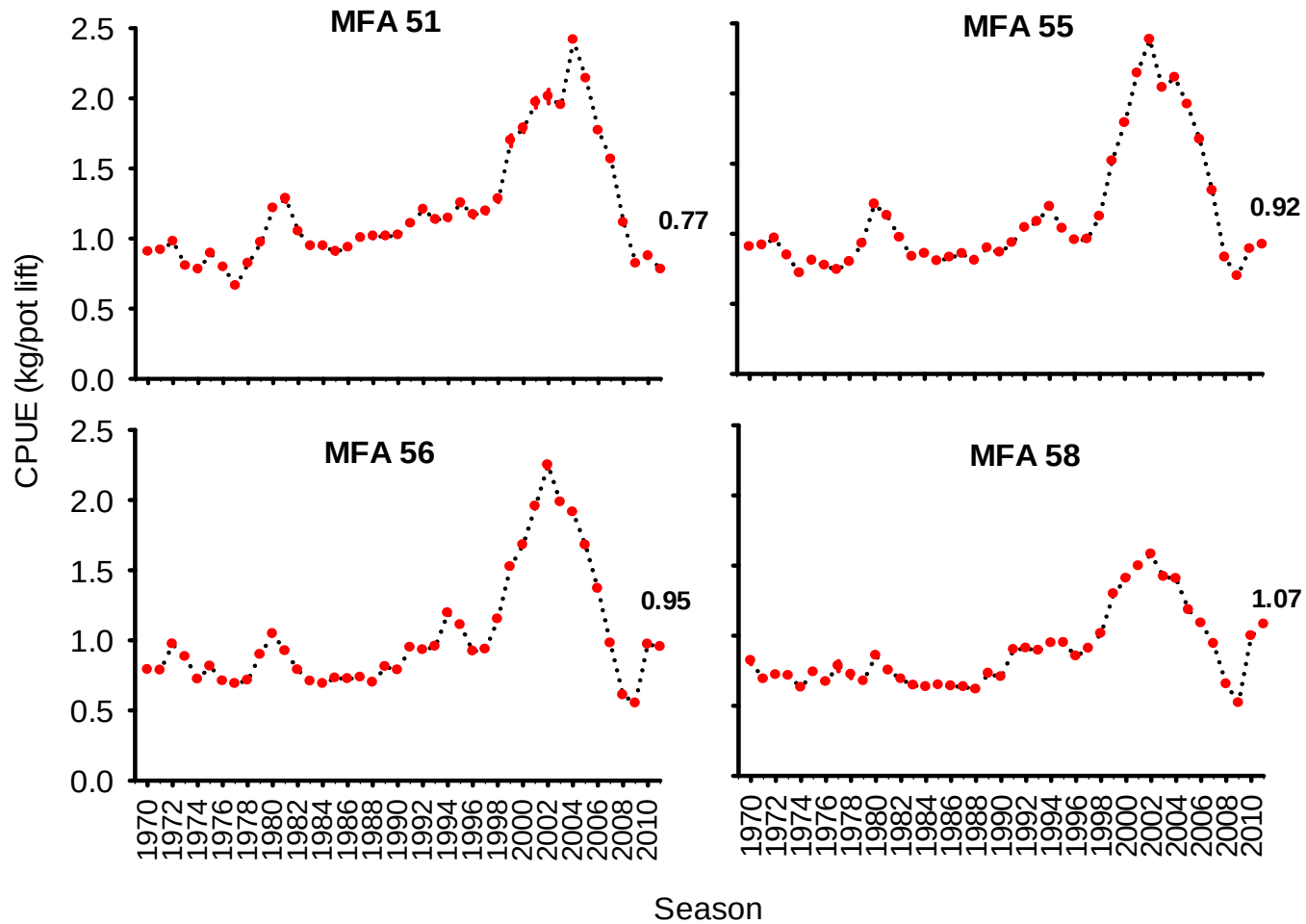
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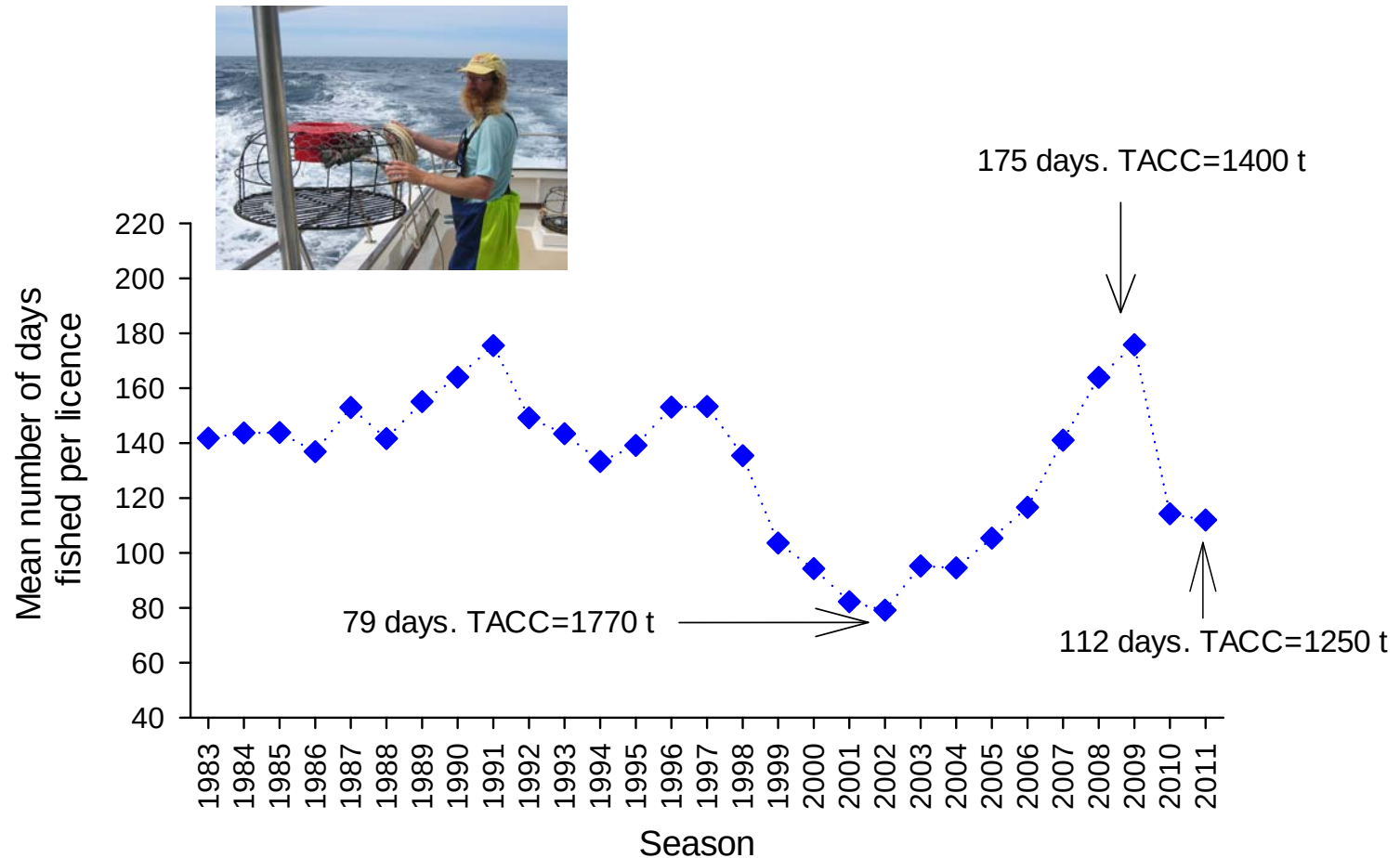


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Regional catch per unit effort (CPUE)

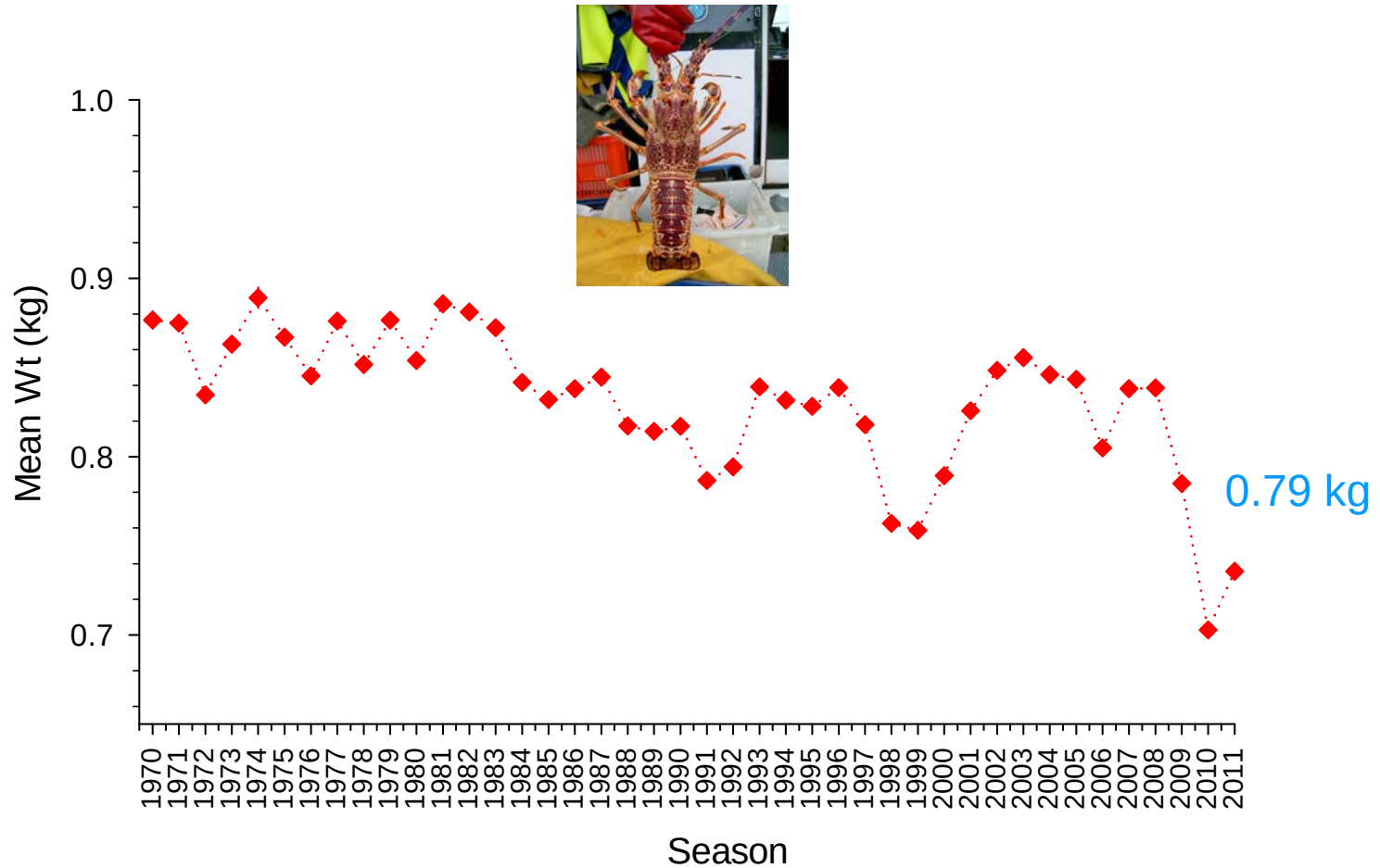


Average number of Days Fished

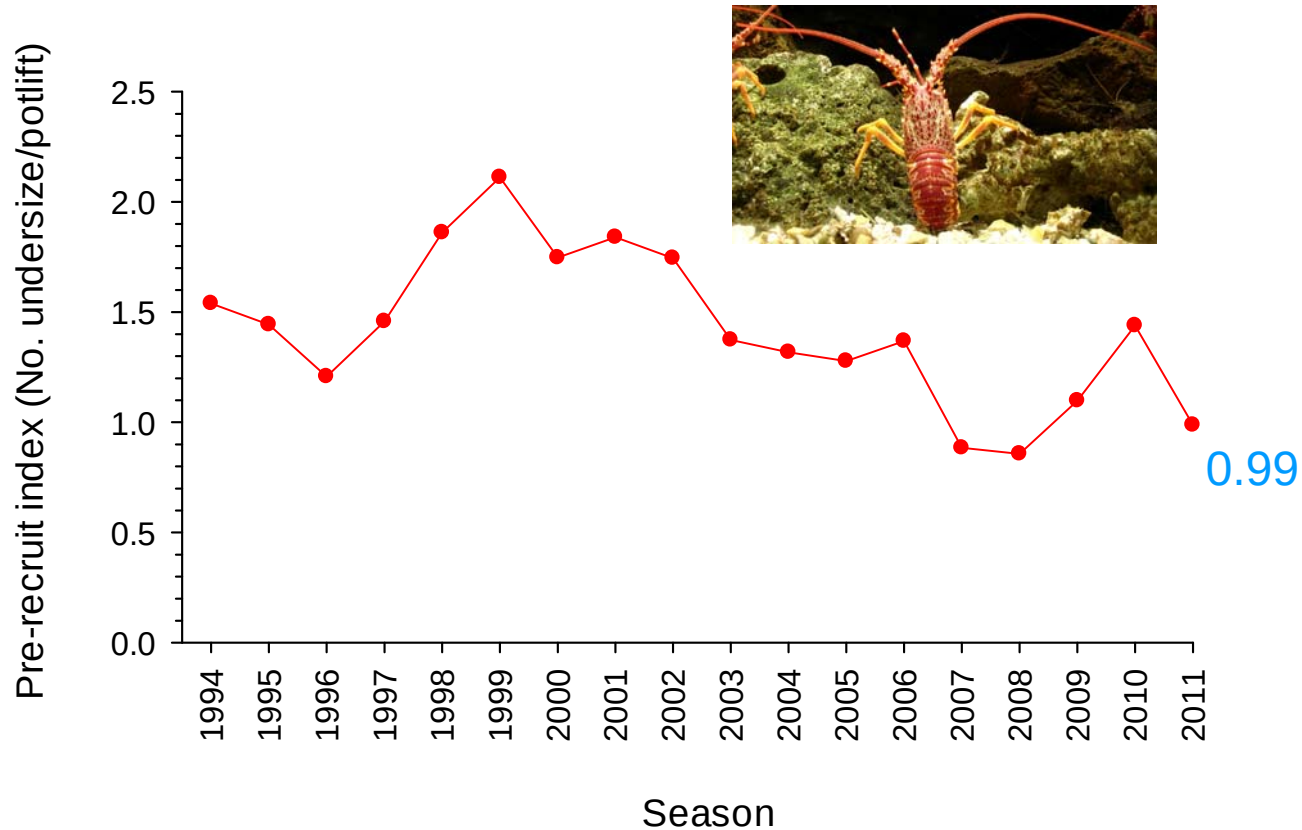


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Mean Weight

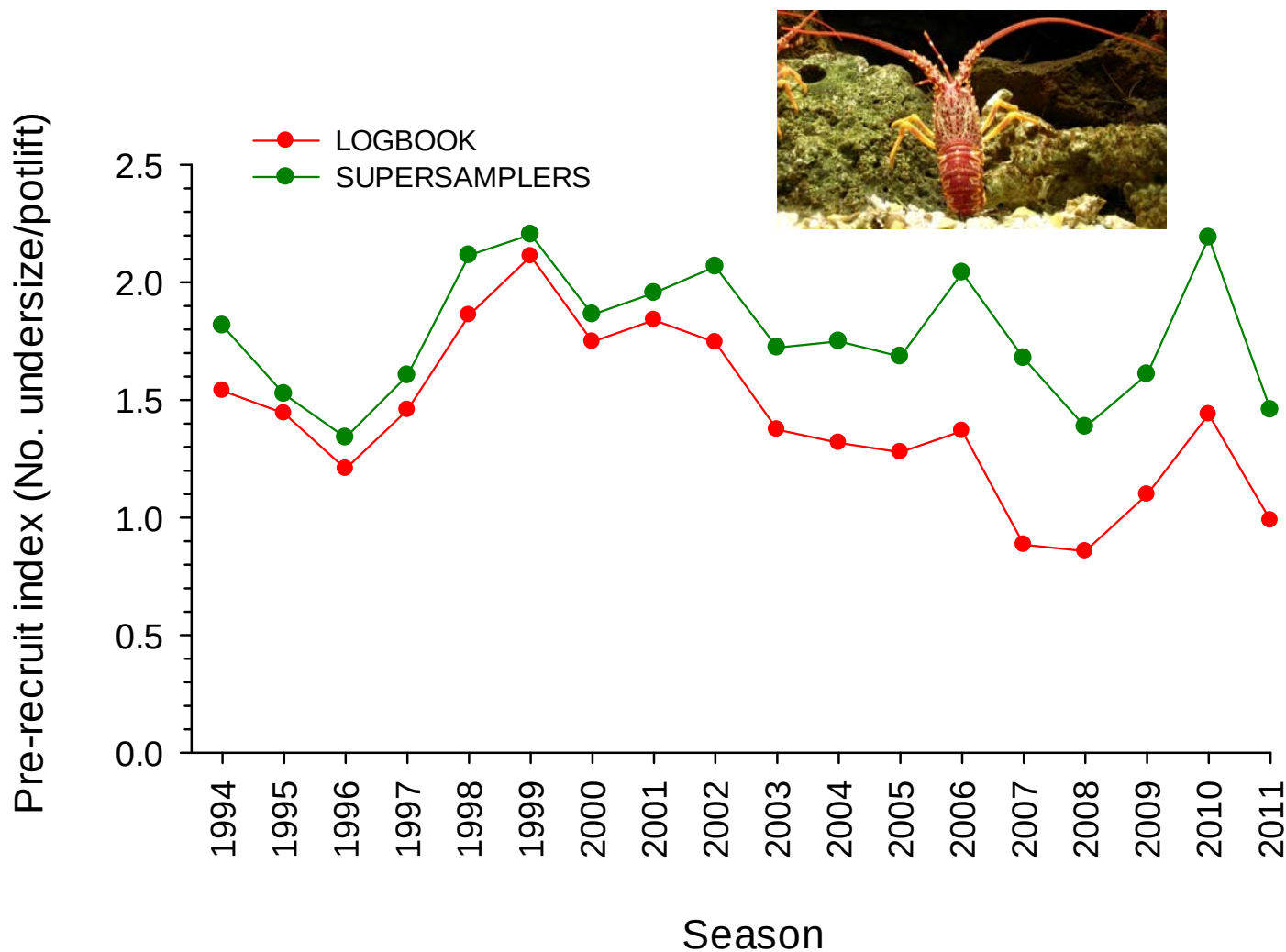


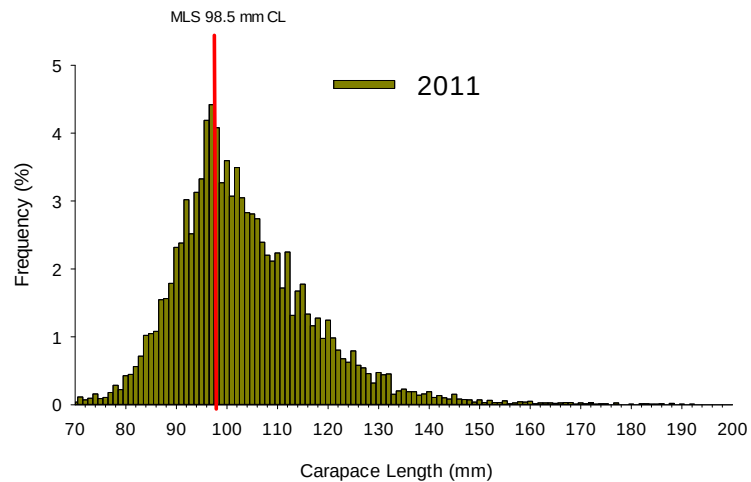
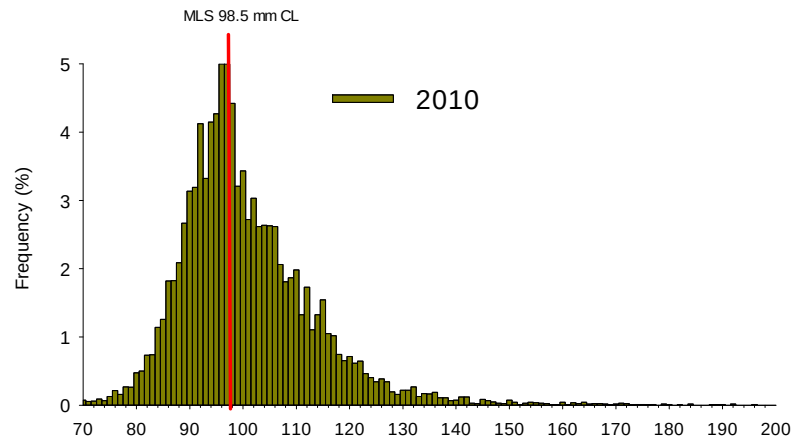
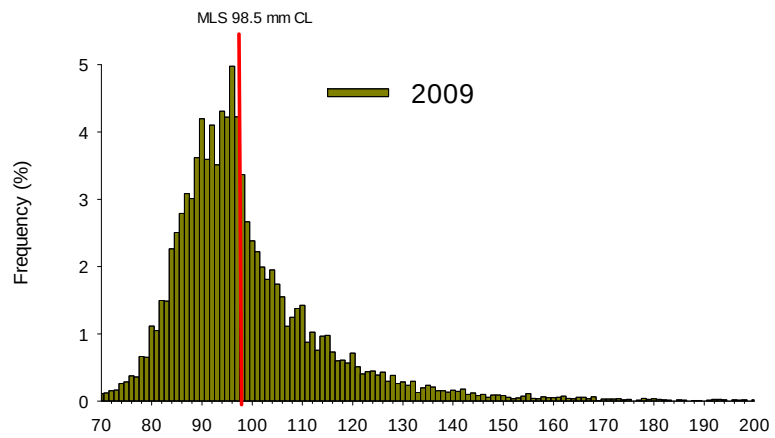
Pre-Recruit Index (PRI)



31% decrease in PRI from 2010 estimates

Pre-Recruit Index (PRI): Supersamplers

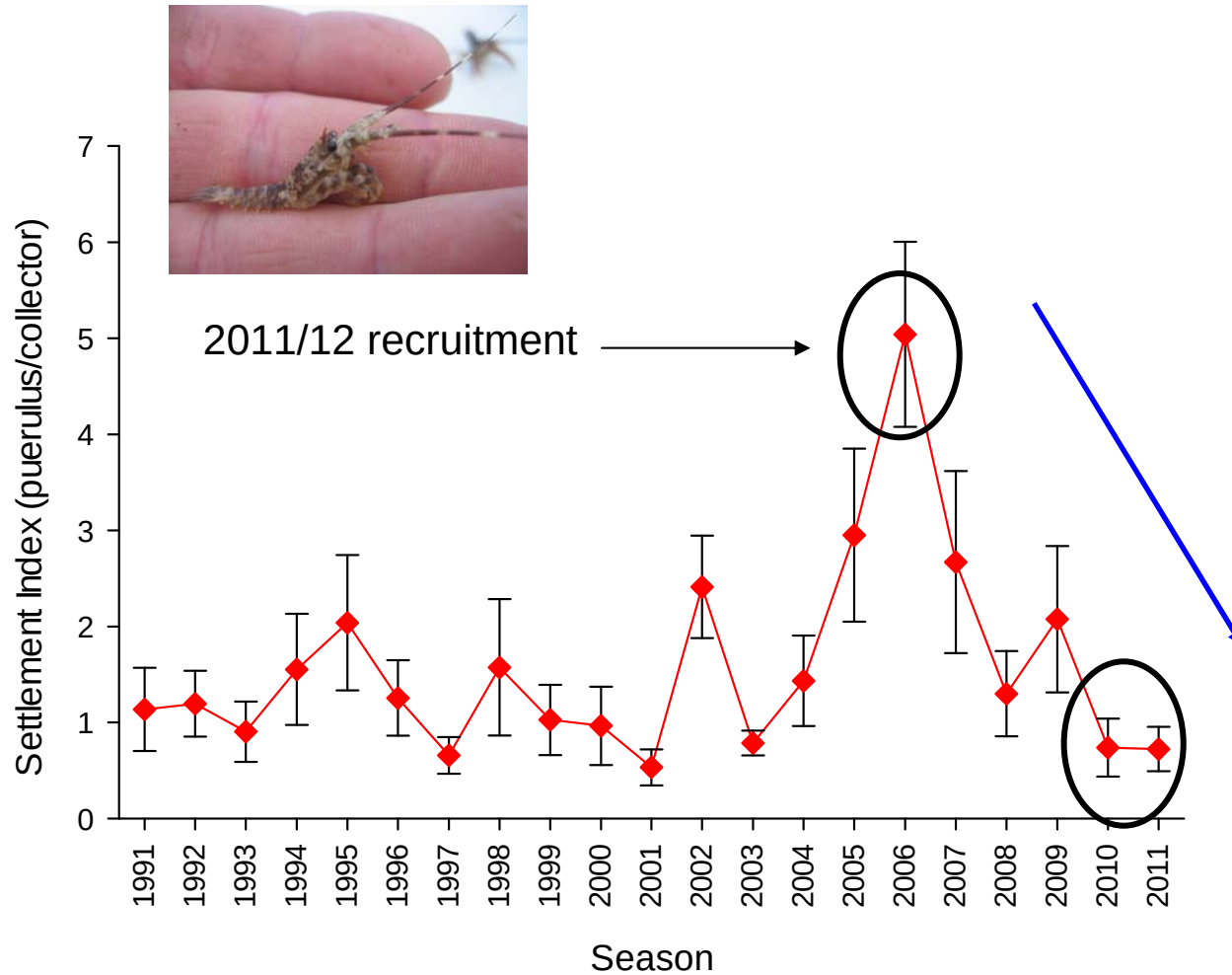




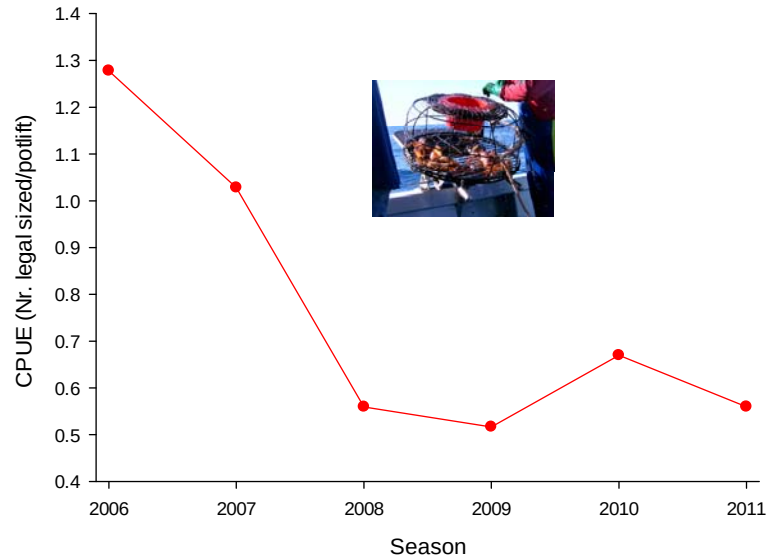
Length Frequency



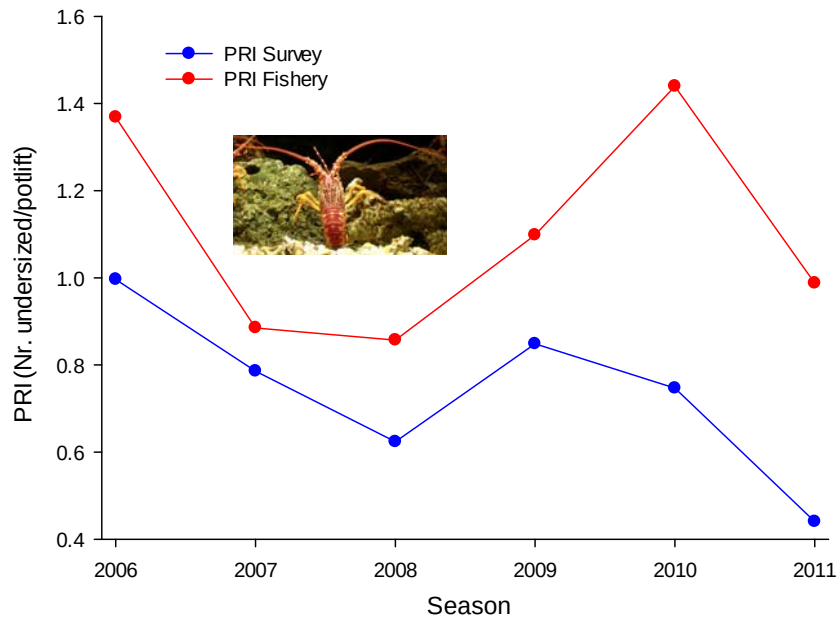
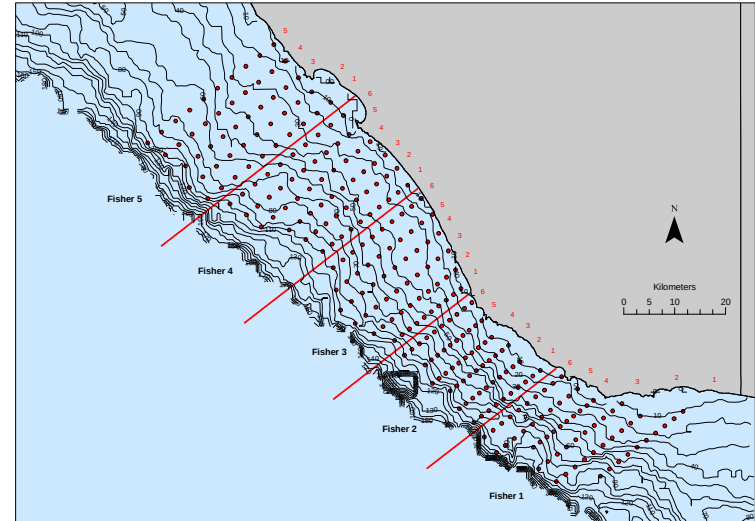
Puerulus Settlement Index (PSI)



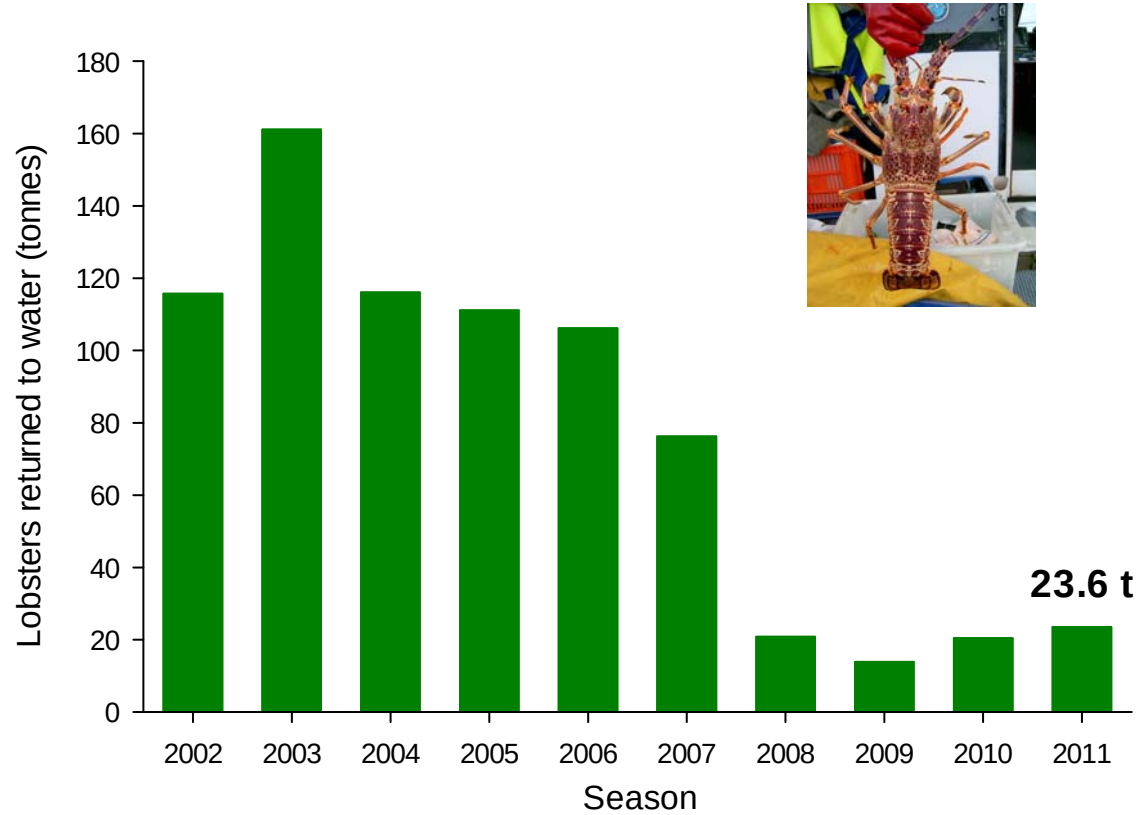
~5 years from settlement to recruitment



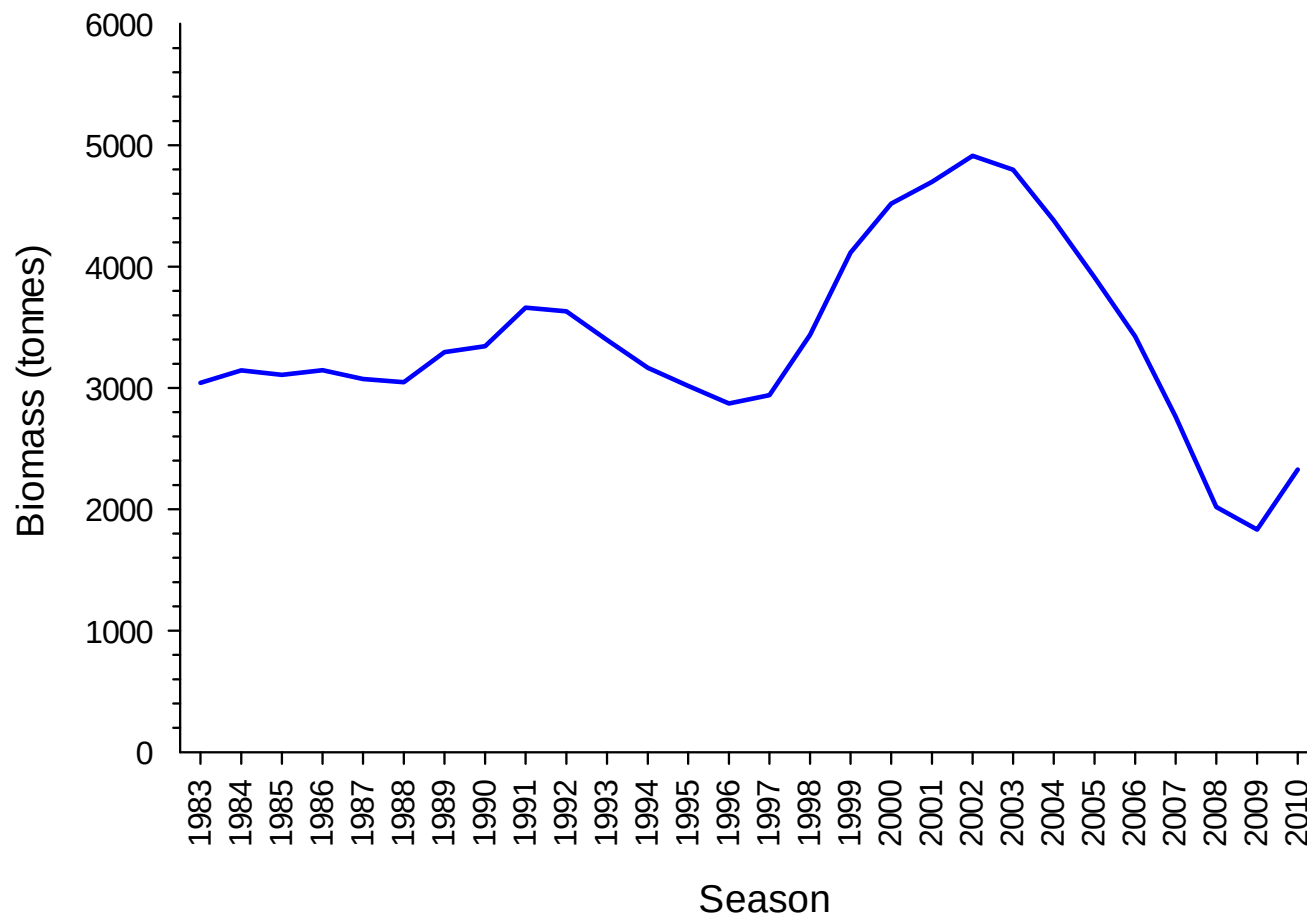
Fishery Independent Surveys



High-grading

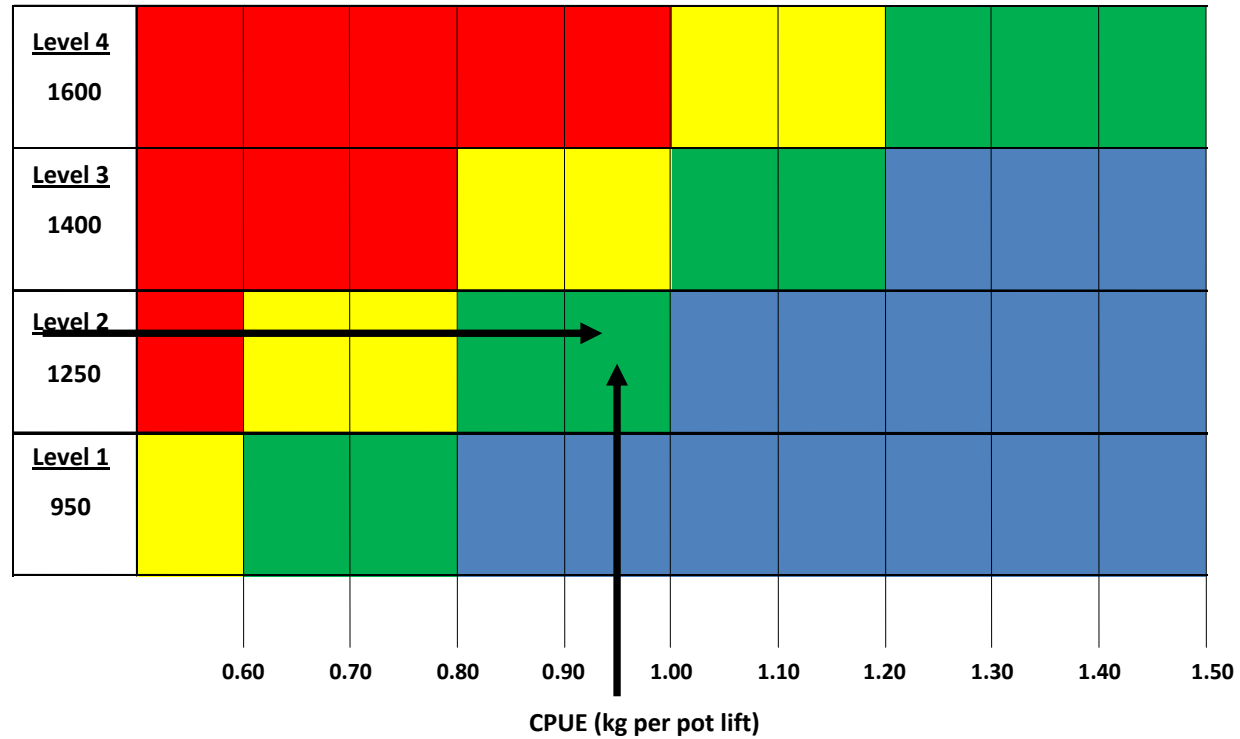


Exploitable Biomass



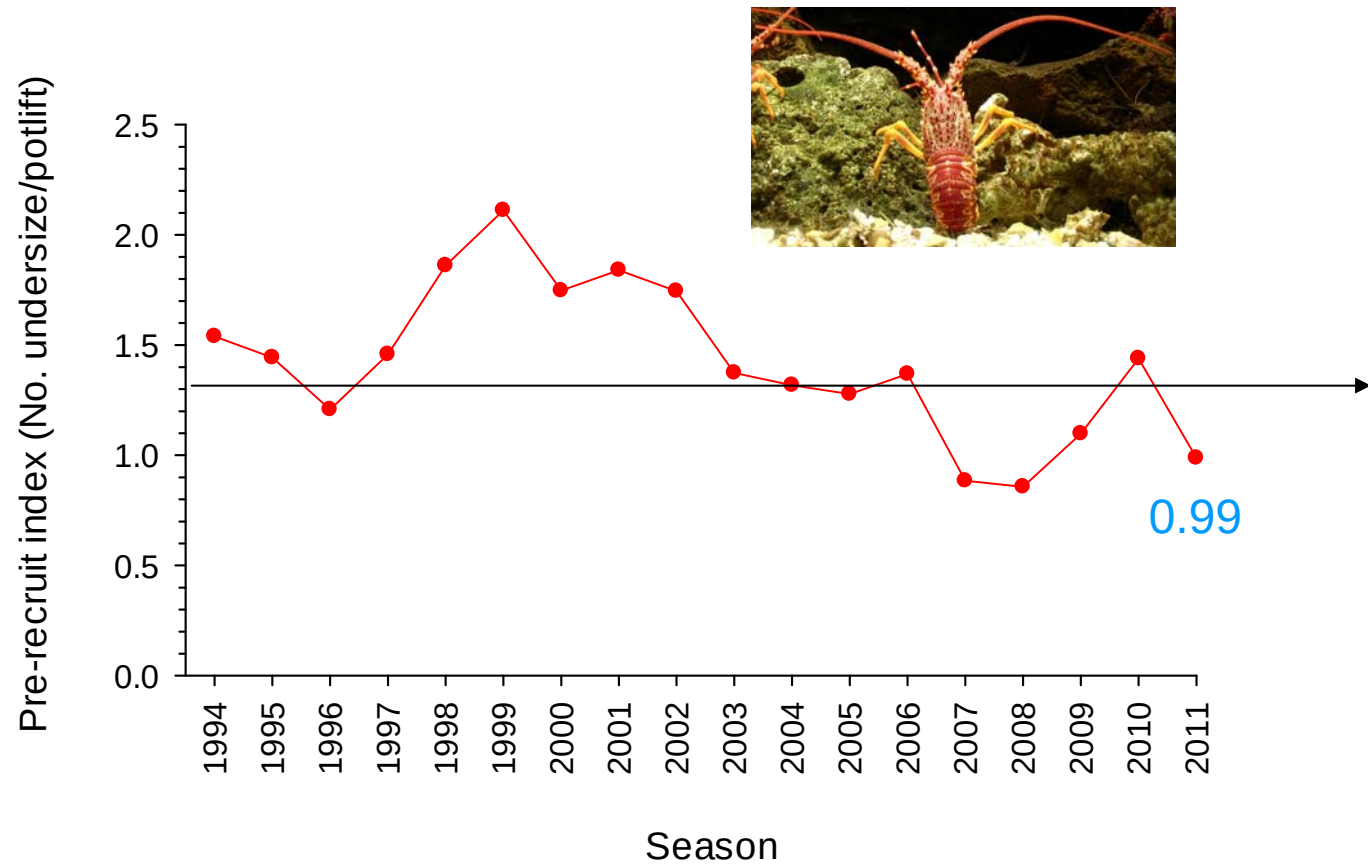
Harvest Strategy Decision Rule: Primary Indicator

TACC (tonnes)



Retain TACC at 1,250 tonnes

Secondary Indicator: Pre-Recruit Index (PRI)



PRI currently below LRP of 1.3 undersized/potlift

SZRLF 2011/12 Season Summary

- For the second consecutive season, the TACC was fully taken in the SZRLF.
- Effort levels have decreased by 37% from the peak observed in 2009 and are currently the lowest since 2005.
- In 2011, CPUE increased by 2% to 0.96 kg/potlift but remains below the long-term average of 1 kg/potlift.
- The PRI decreased substantially by 31% to 0.99 undersized/potlift and is below the LRP of 1.3 undersized/potlift.
- Decreases in undersized are likely to reflect reduced levels of puerulus settlement observed from 2007-2011.
- Current levels of CPUE and PRI recommend retaining the TACC at 1,250 tonnes based on the Harvest Strategy decision rules.