

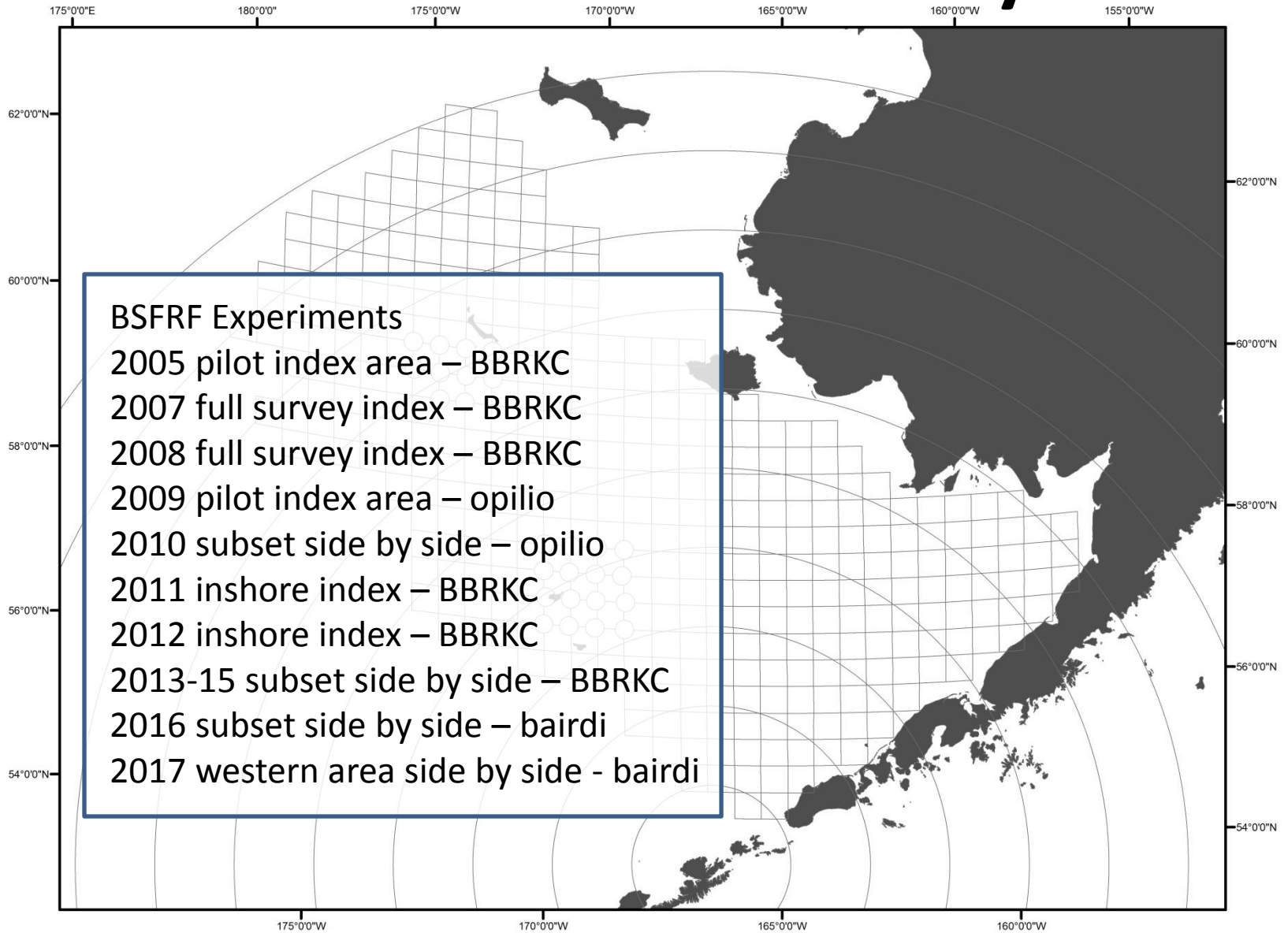
# BSFRF Research Update - BBRKC/Bairdi Surveys CPT September 2016



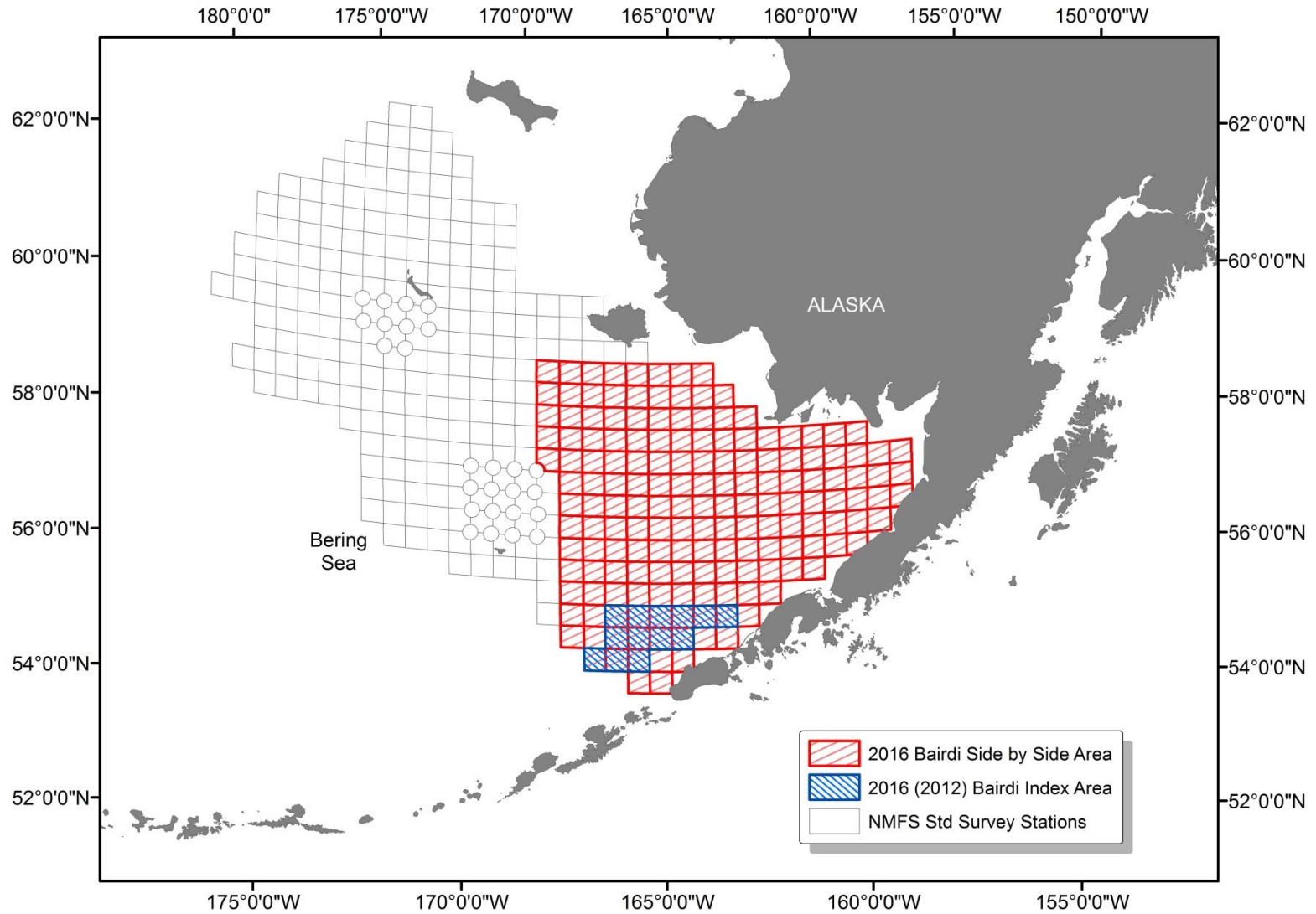
Scott Goodman, BSFRF  
September 21, 2016

Cooperative BSFRF Trawl Surveys  
Side by Side w/ NMFS Charters  
Leg 1/2, May 31-June 23

# NFMS Trawl Selectivity

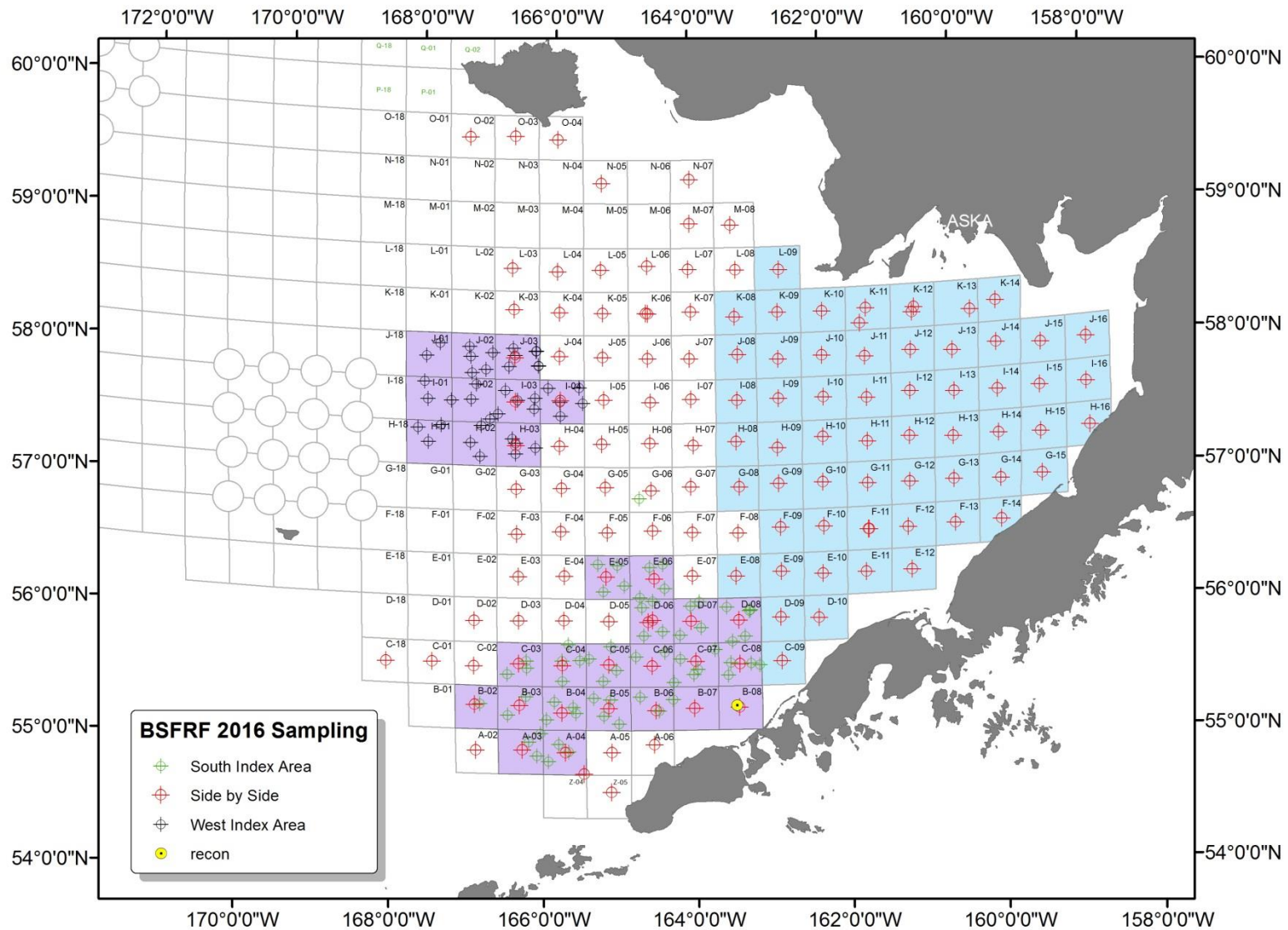


# 2016 Planned Sampling

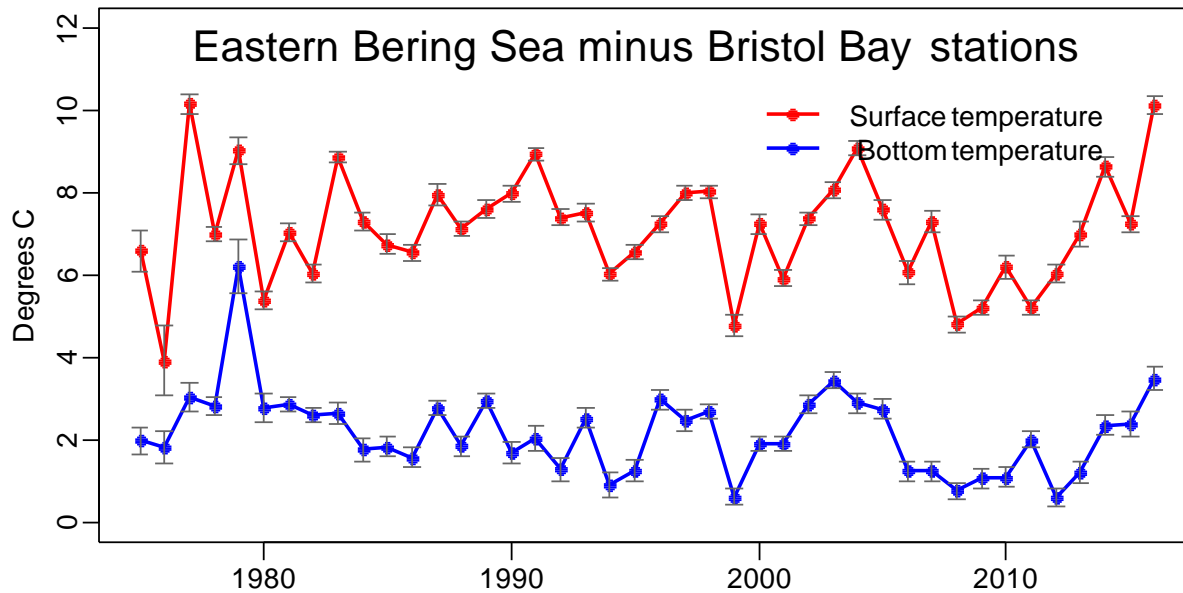
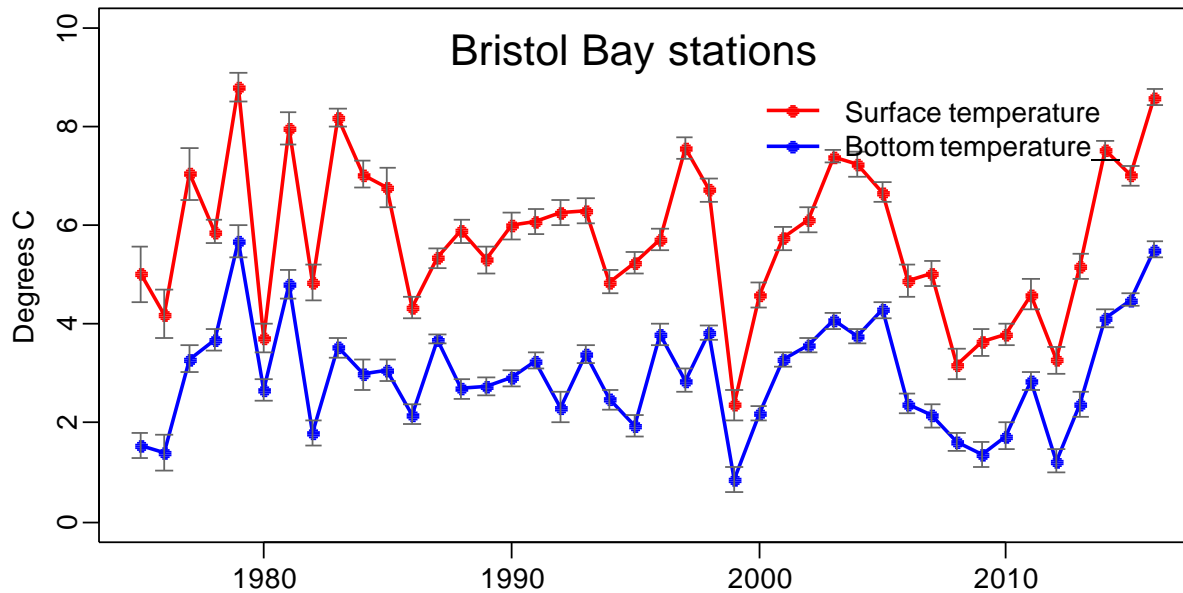




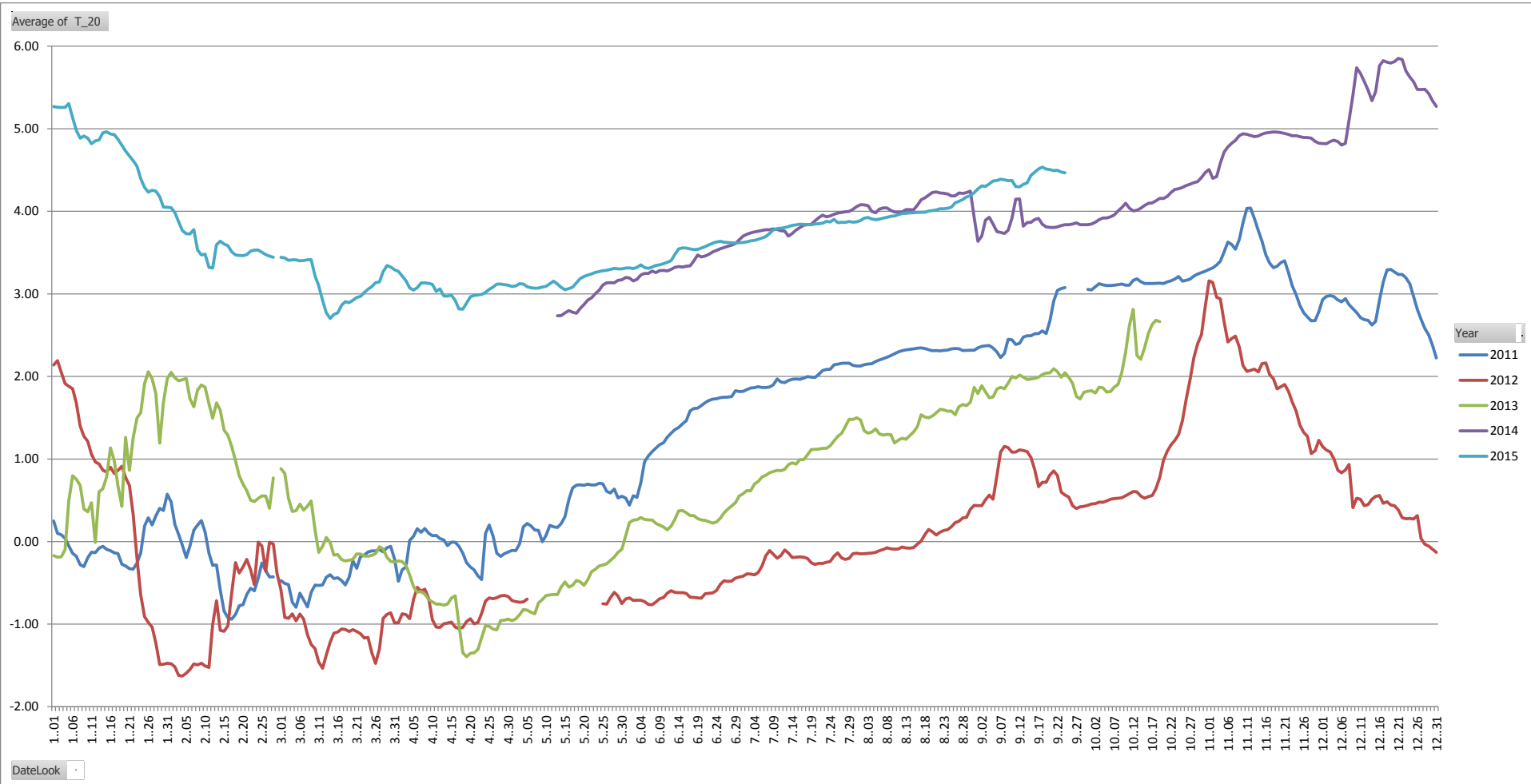
# 2016 Actual Sampling

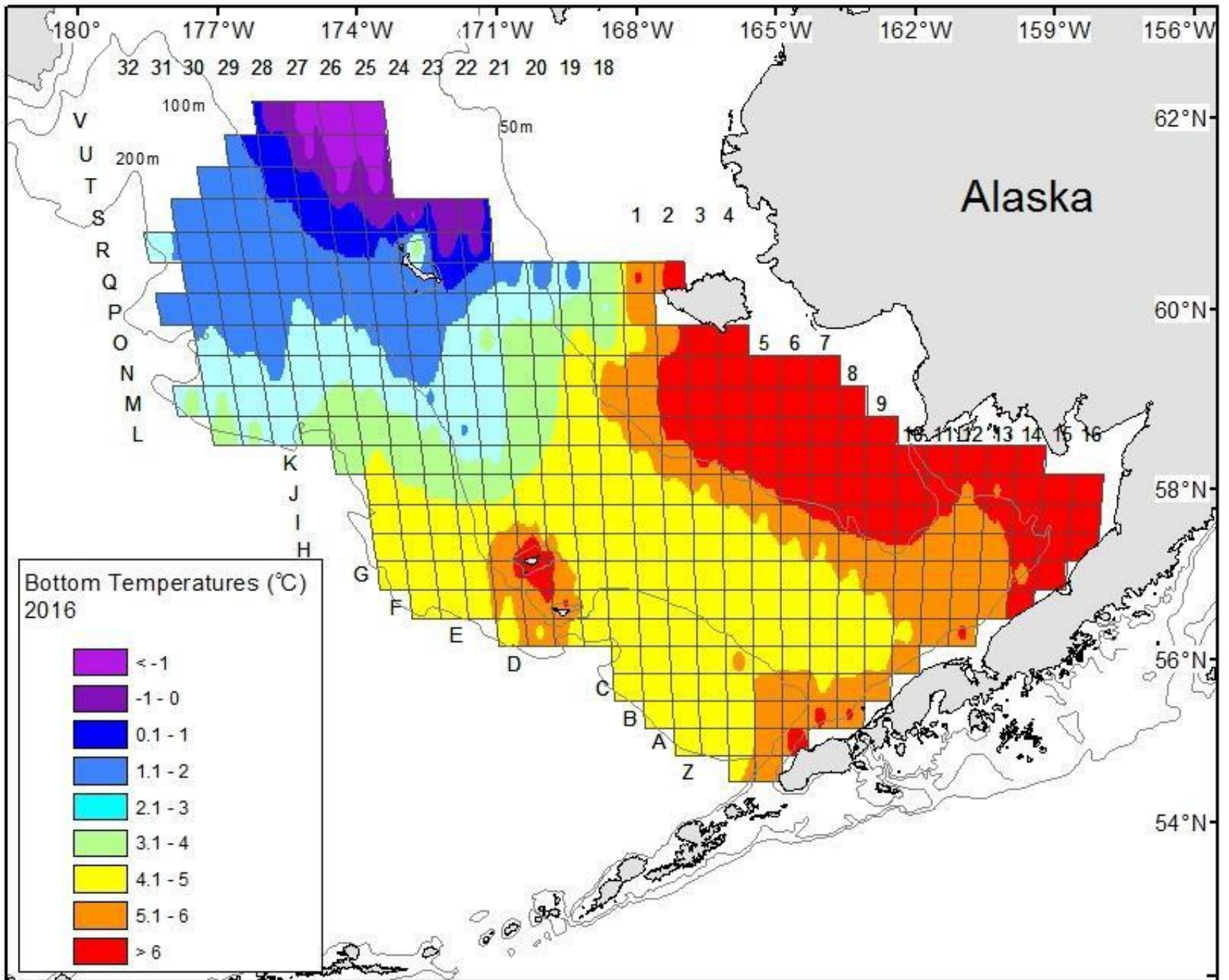


# Bering Sea Temp – Recent Trends



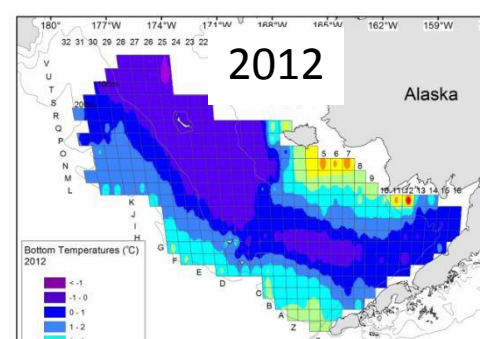
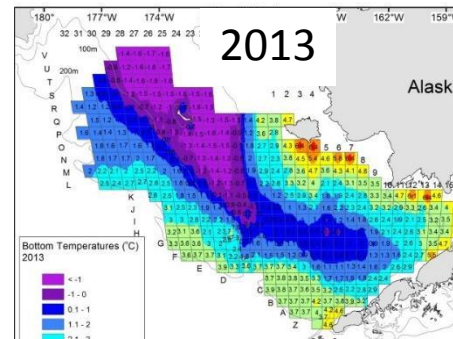
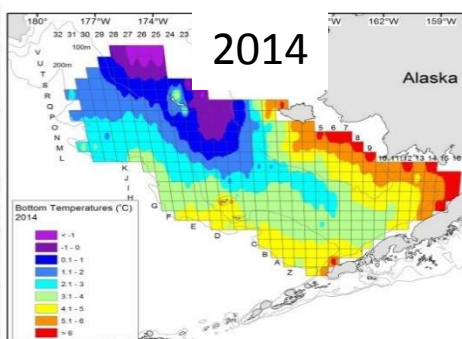
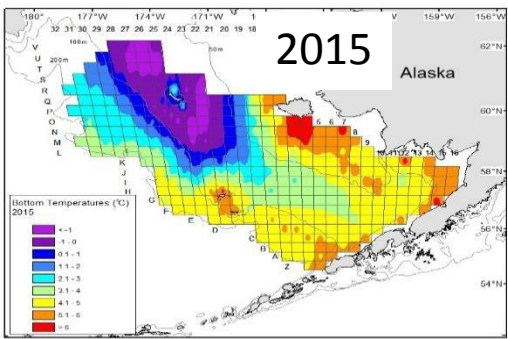
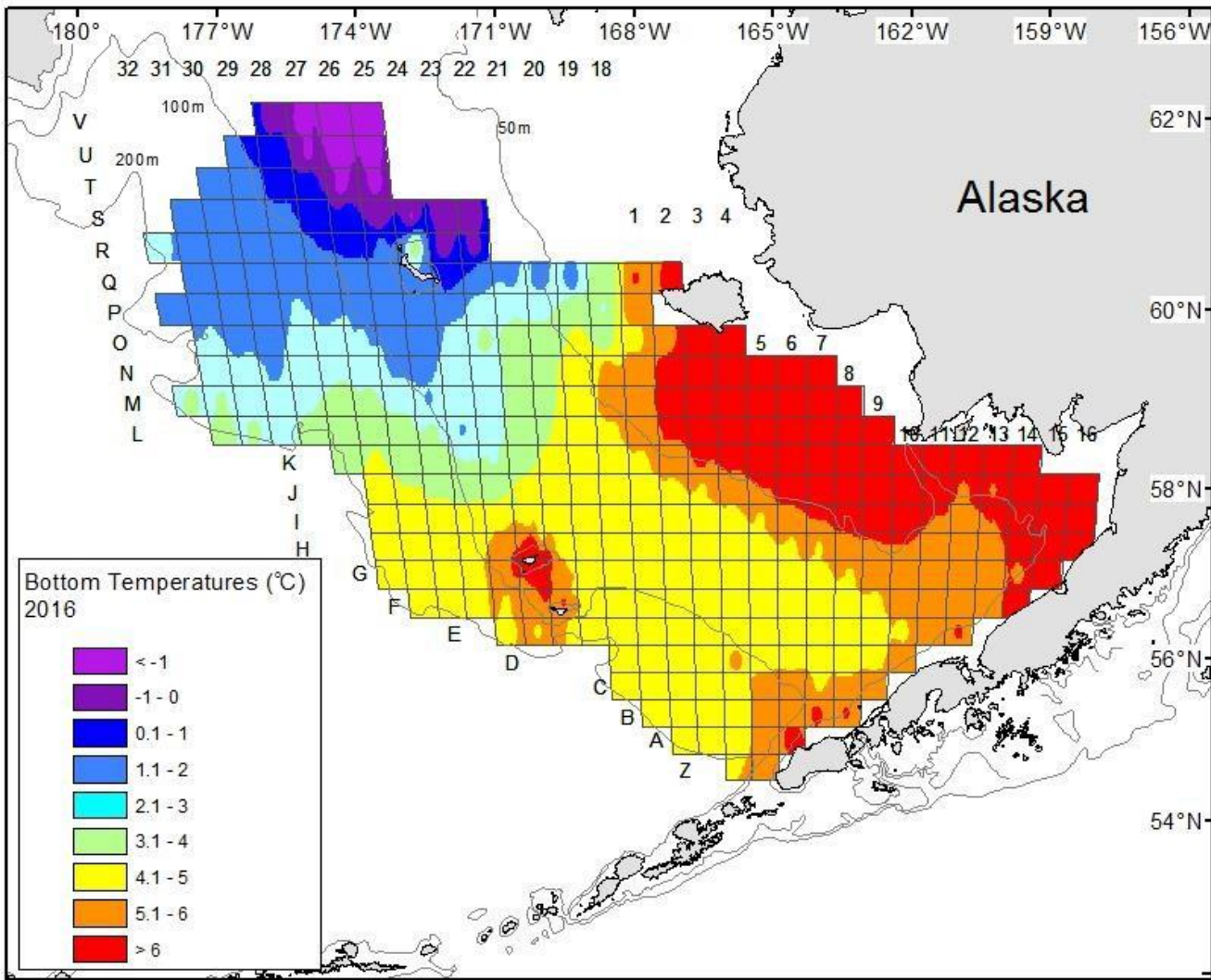
# Bering Sea Temp – Recent Trends





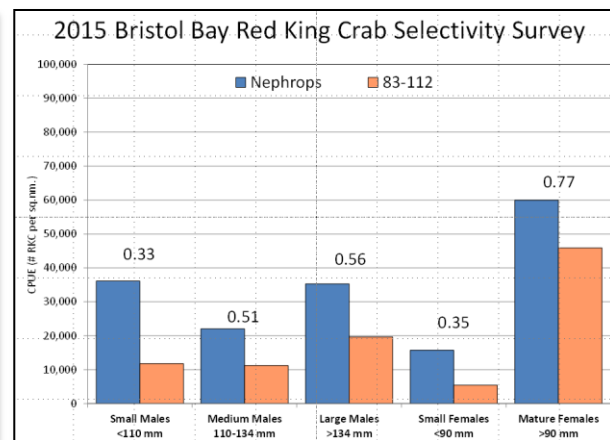
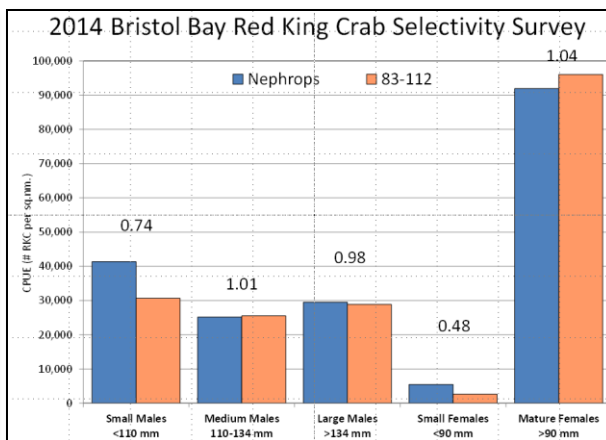
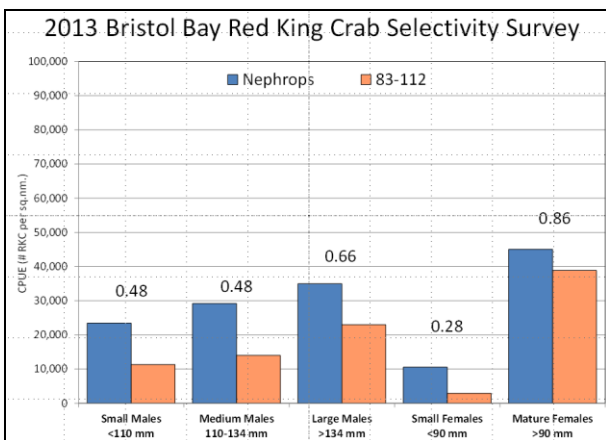
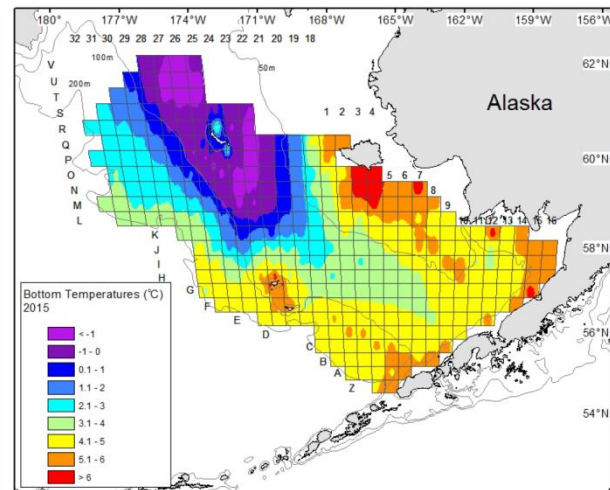
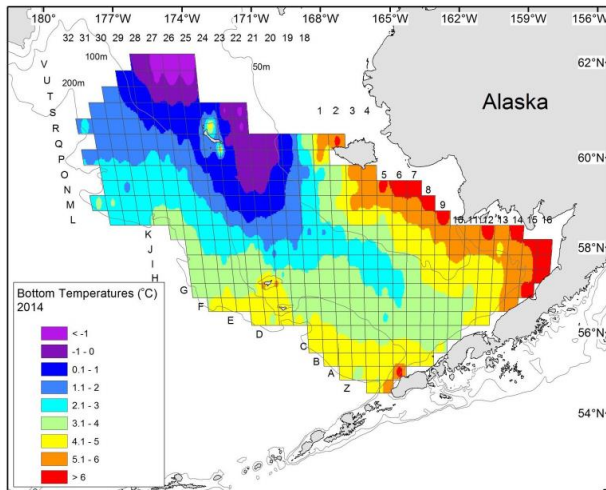
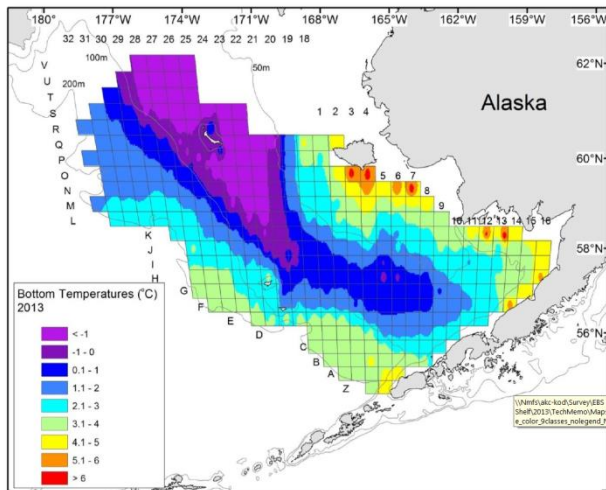


# 2016





# BBRKC Trawl Selectivity 2013-2016

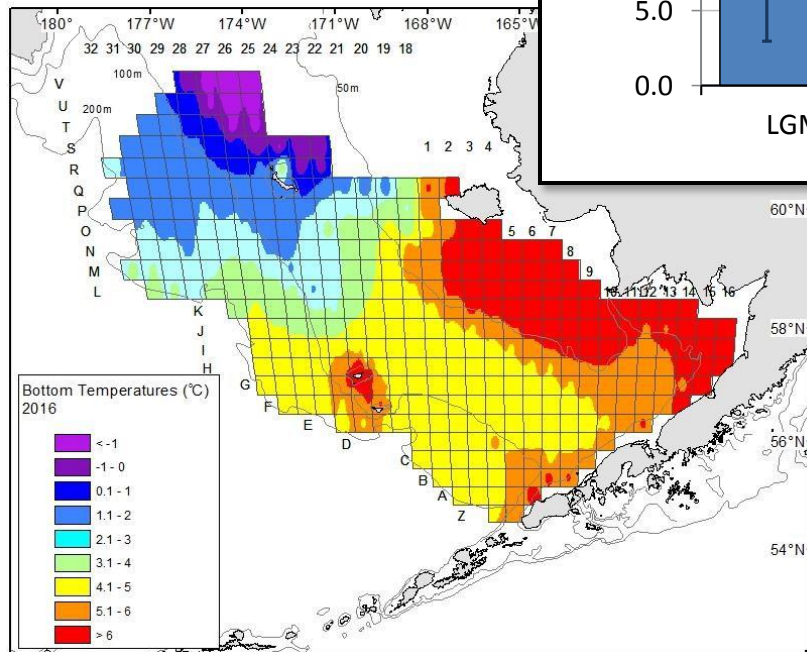
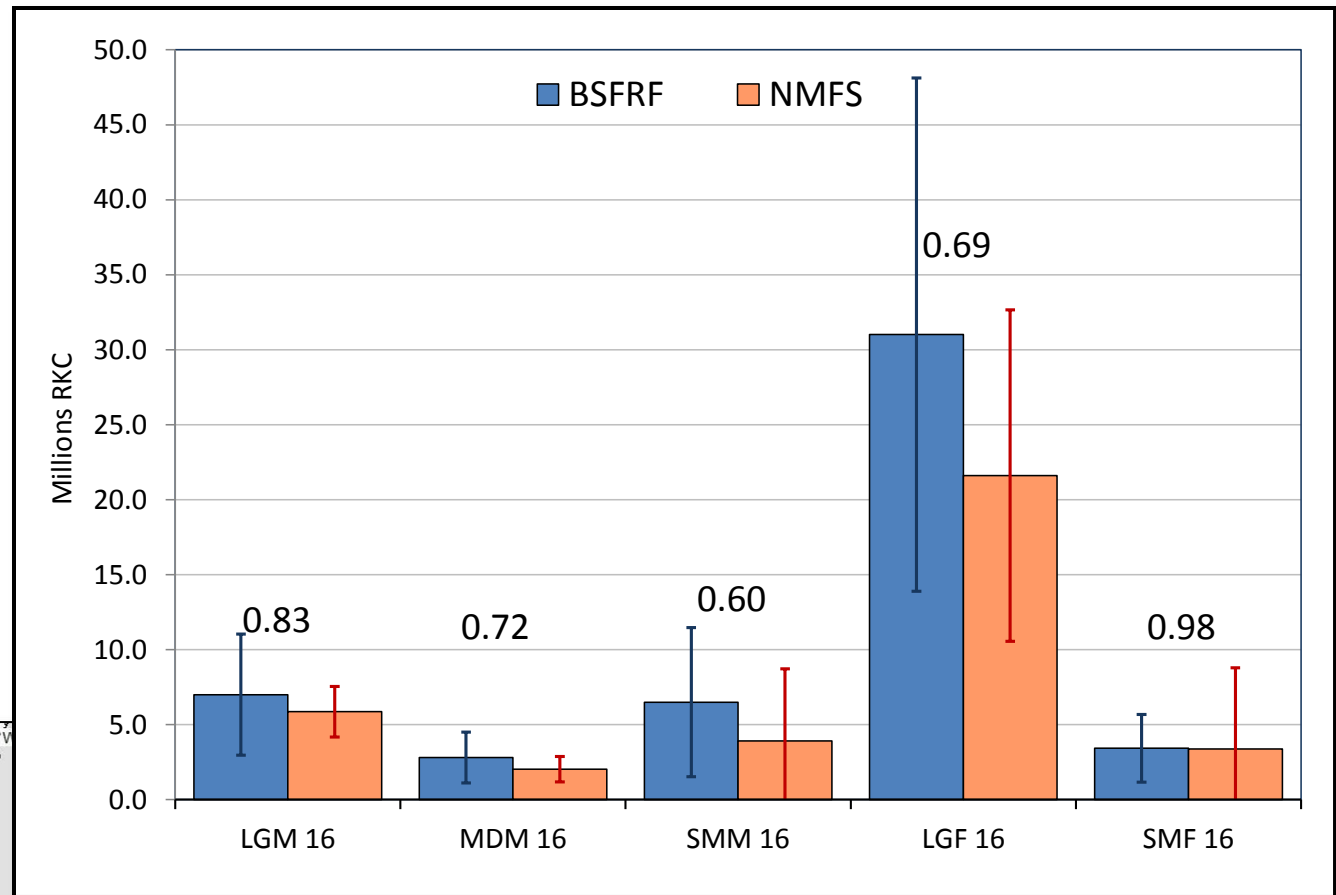


2013

2014

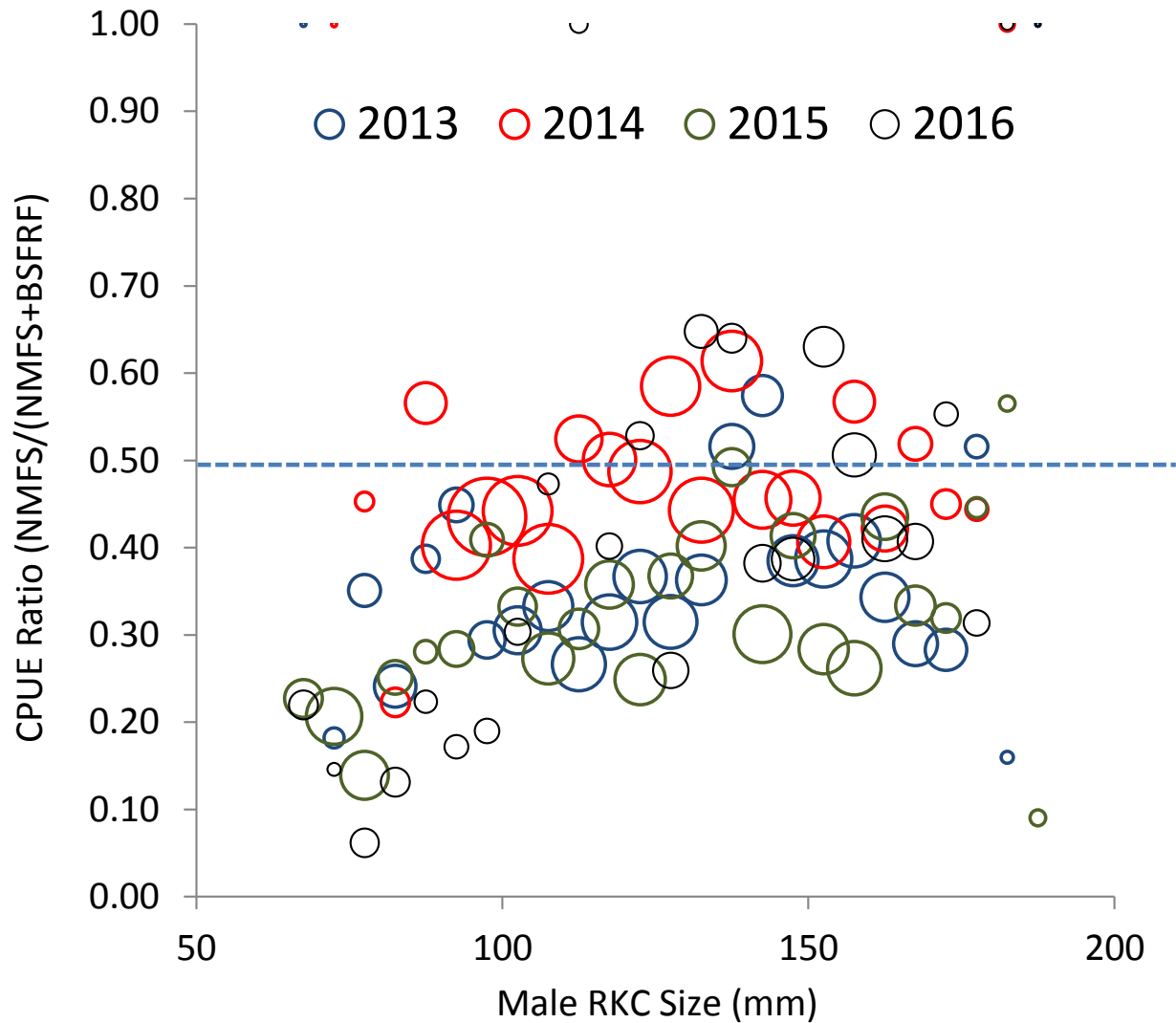
2015

# 2016 Results: ...between 2013/15 and 2014

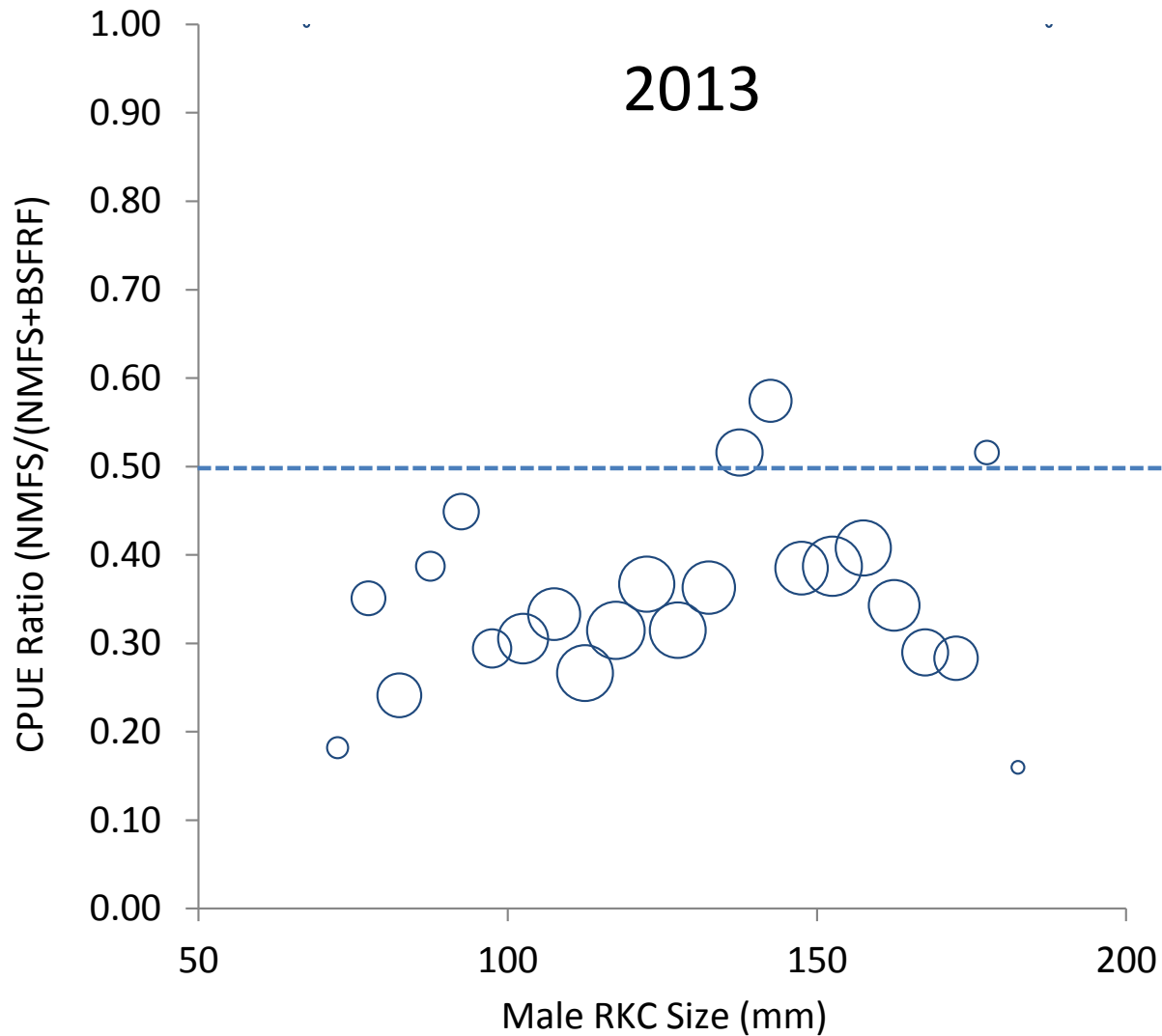


...trawl selectivity  
CPUE Ratios by sex/size

# BBRKC Trawl Selectivity 2013-2016

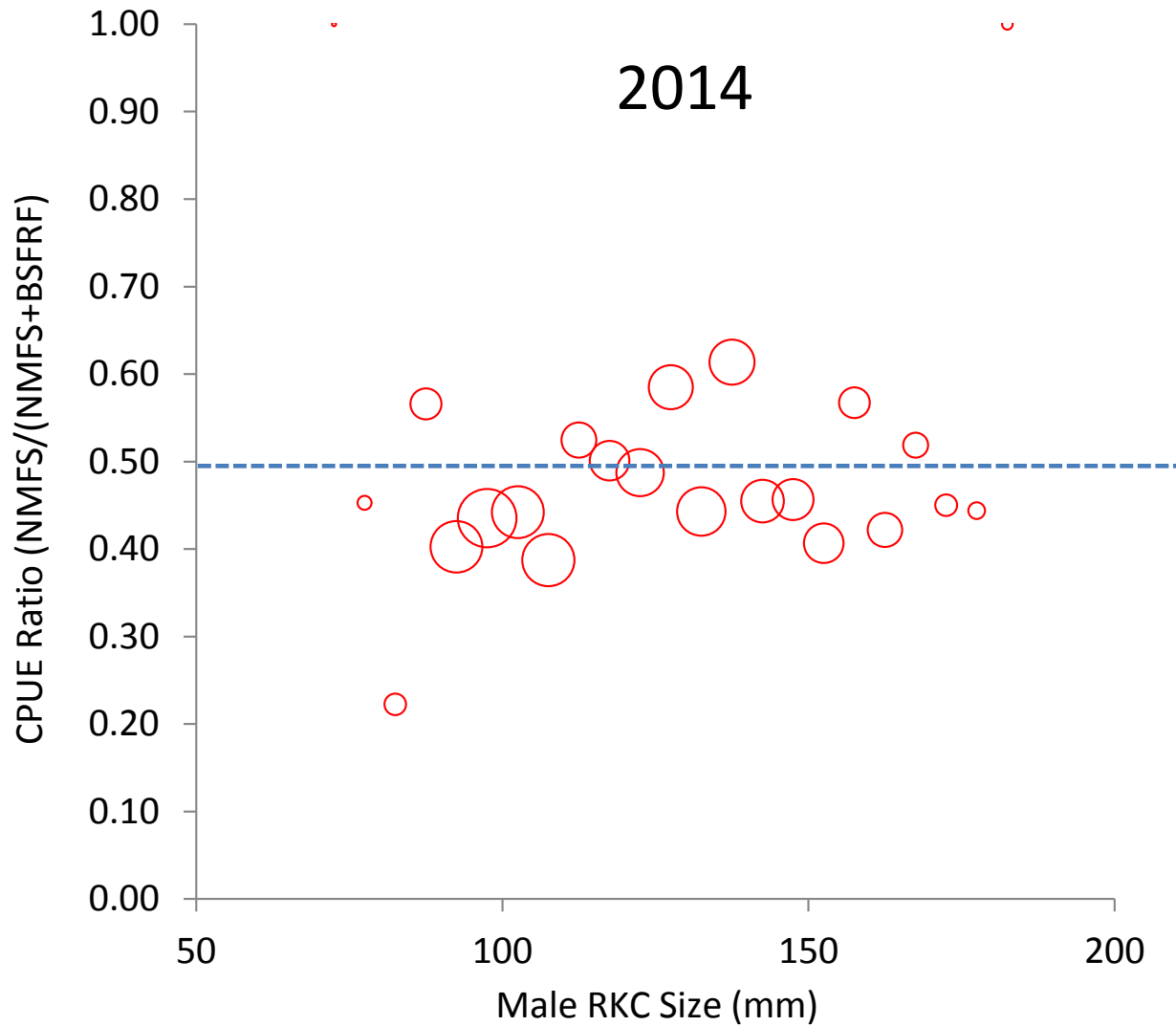


# BBRKC Trawl Selectivity 2013-2016

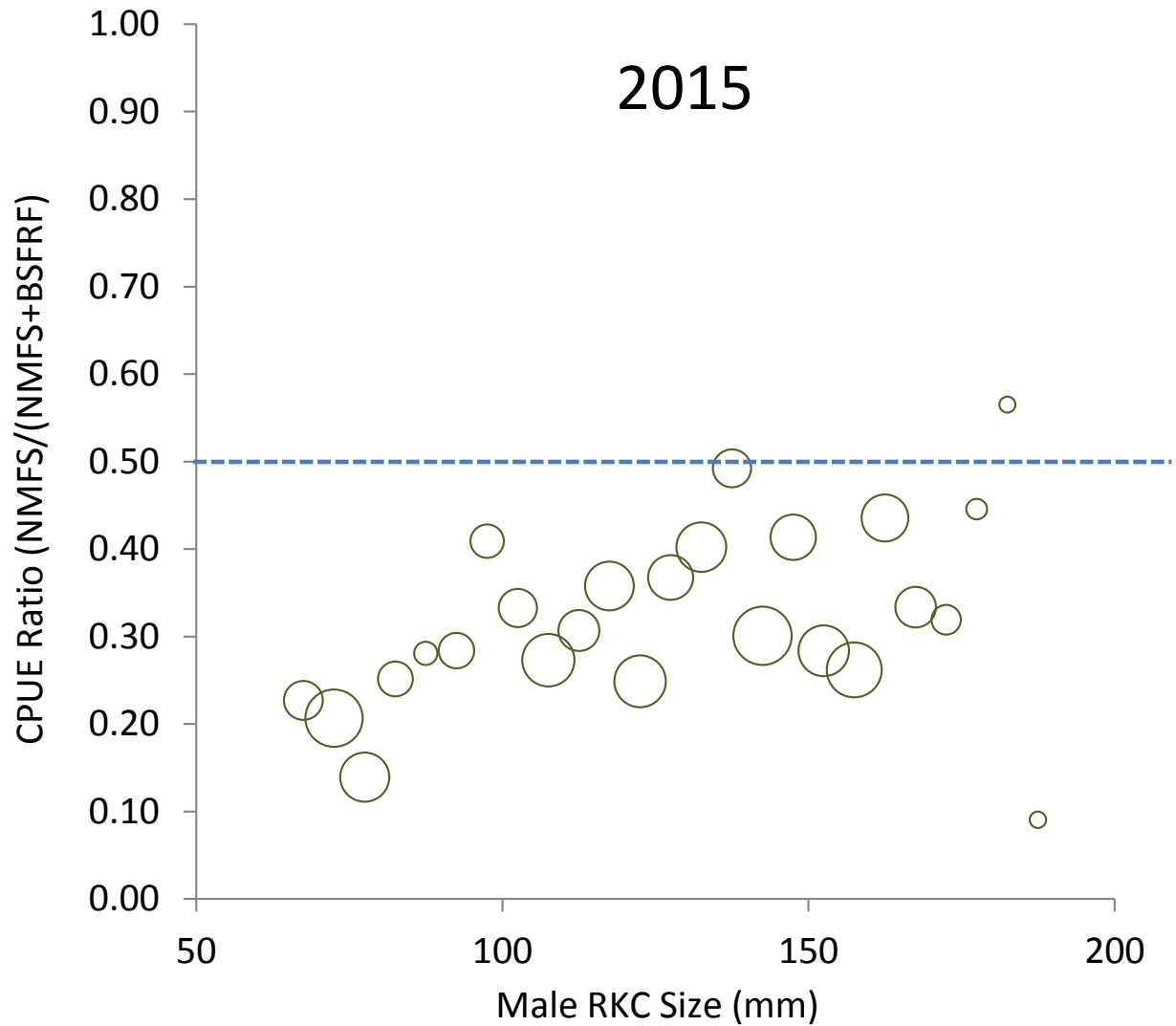




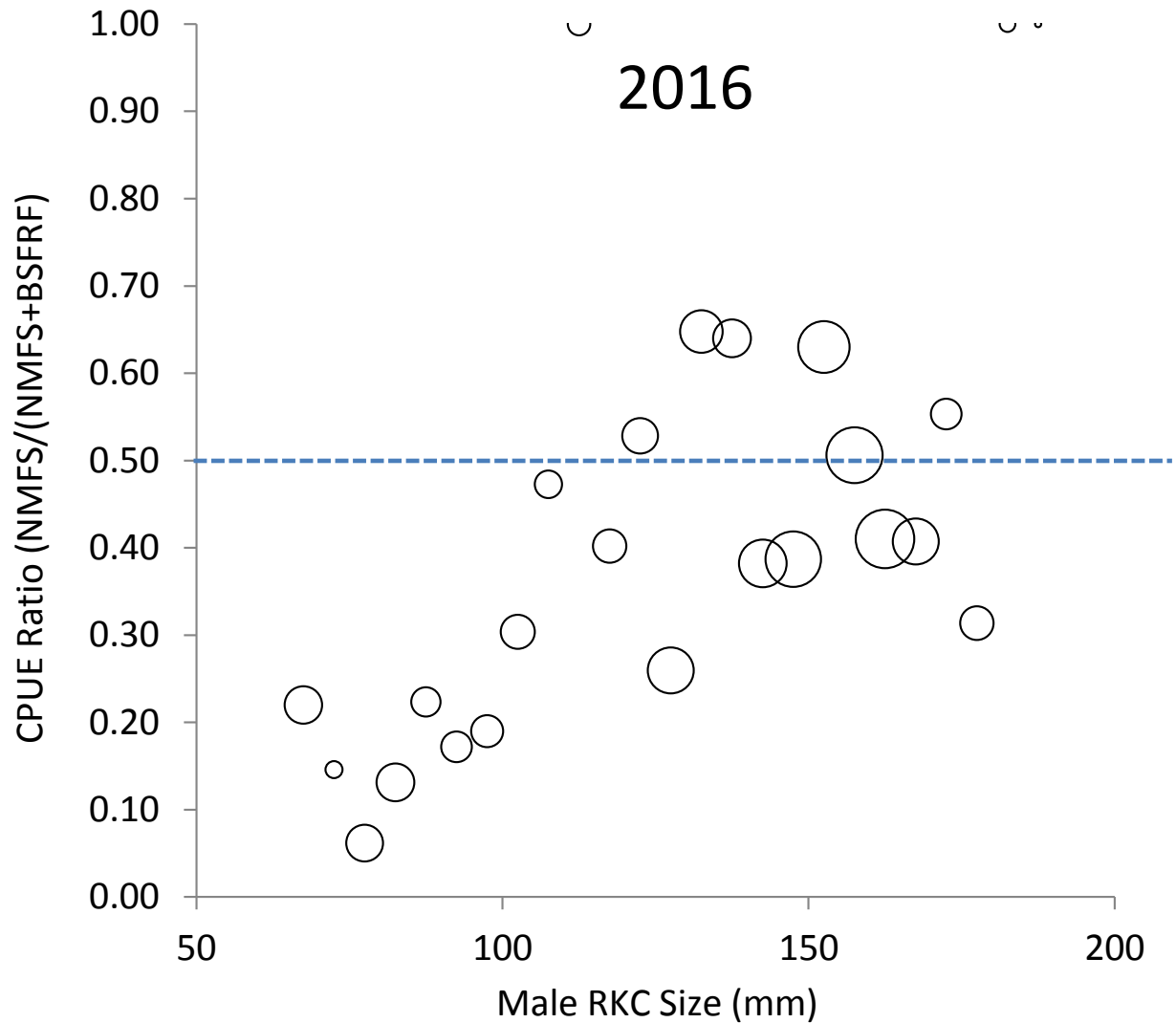
# BBRKC Trawl Selectivity 2013-2016



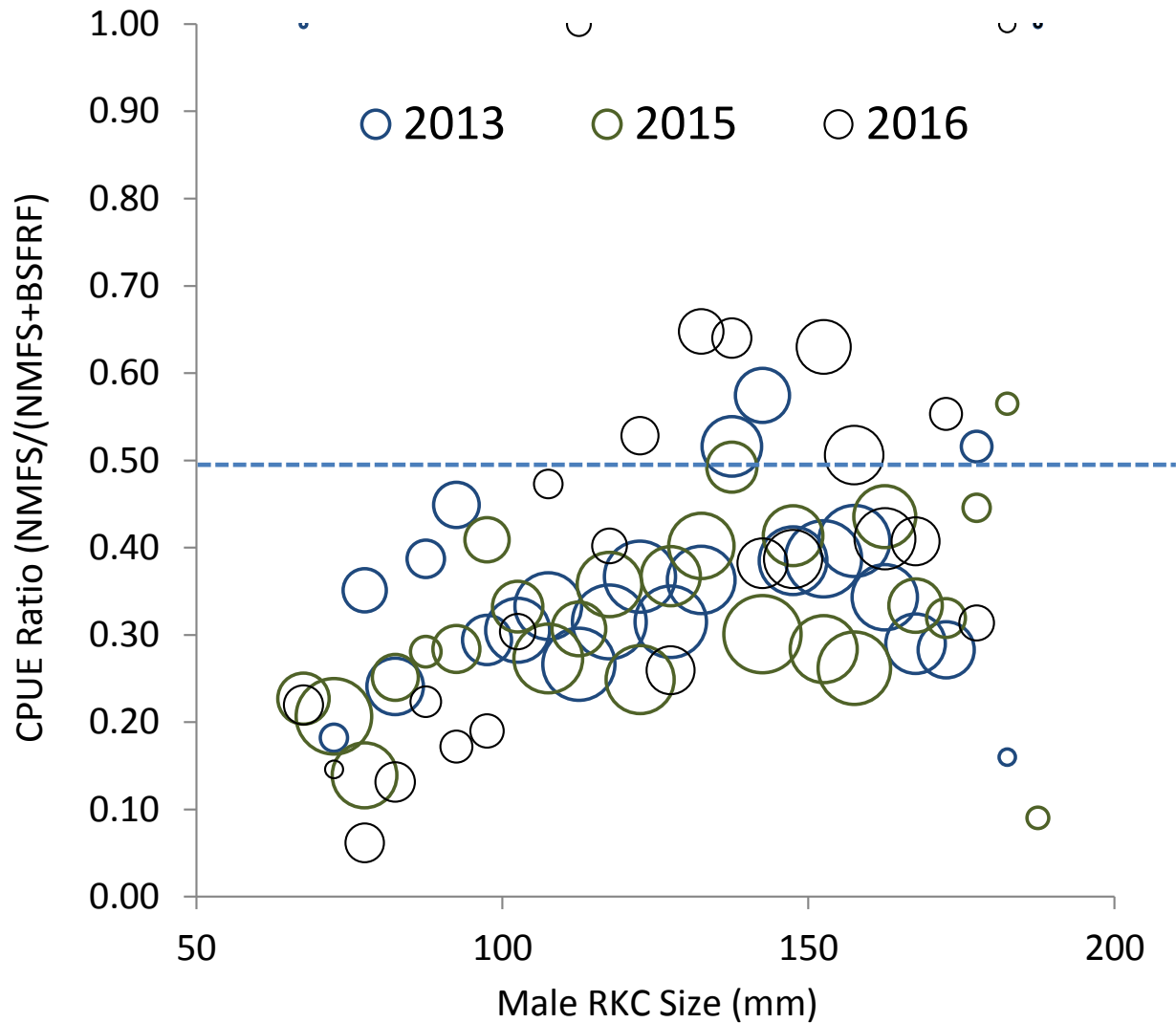
# BBRKC Trawl Selectivity 2013-2016



# BBRKC Trawl Selectivity 2013-2016

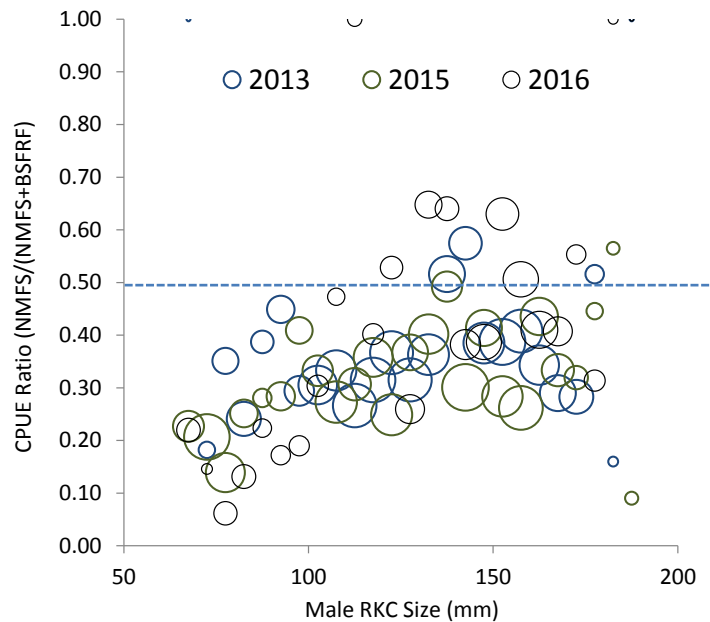


# BBRKC Trawl Selectivity 2013-2016





# Estimating Trawl Selectivity Accurately



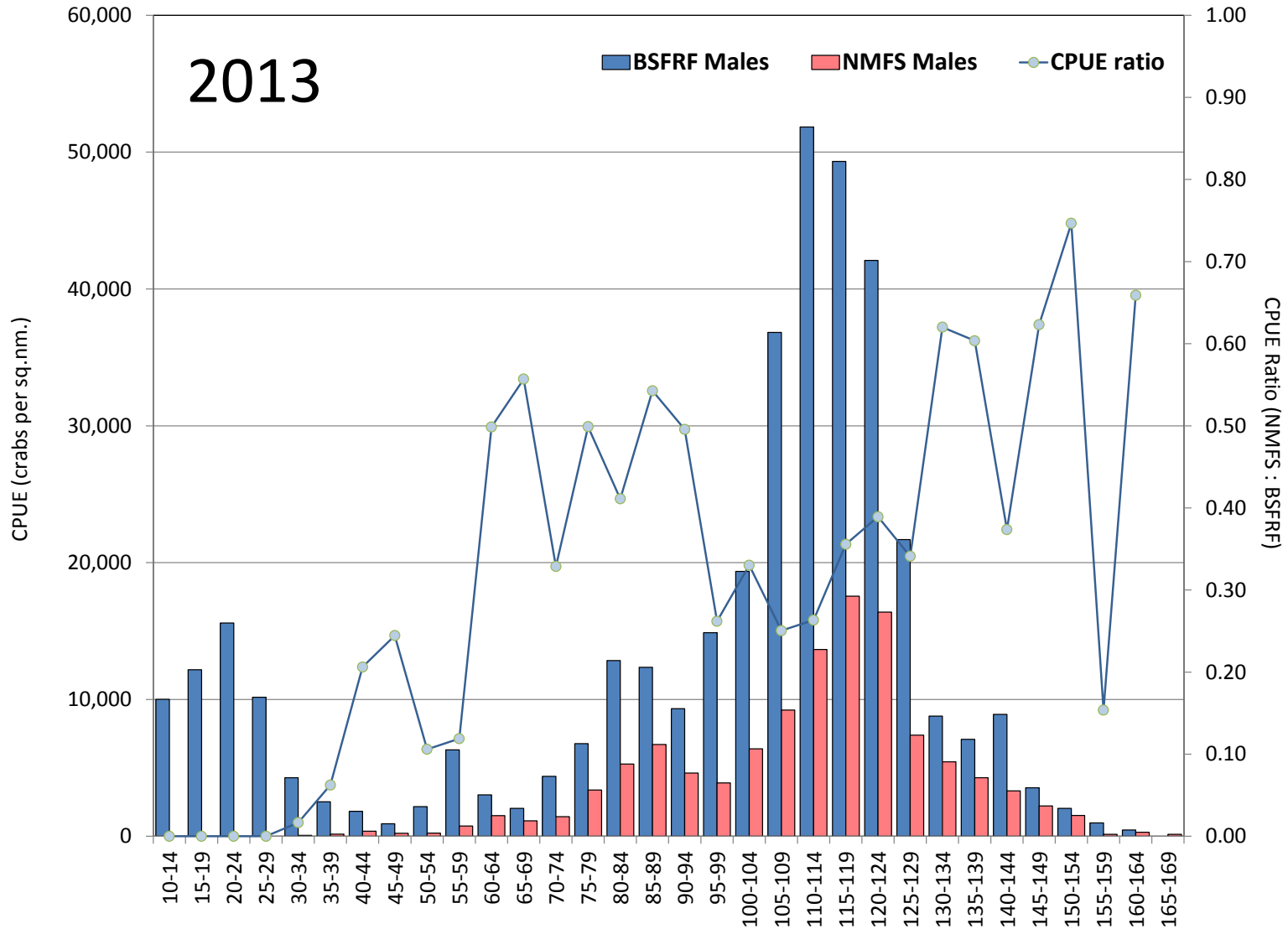
- Updating temporal/spatial trends
- Revising methods per model/species
- Addressing variability in data
- NMFS survey availability
- Other survey availability
- Model scenario selection
- Current models v. GMACs
- Spatial modeling
- Incorporating new data
- Consistent methods across models

# Bairdi Trawl Selectivity

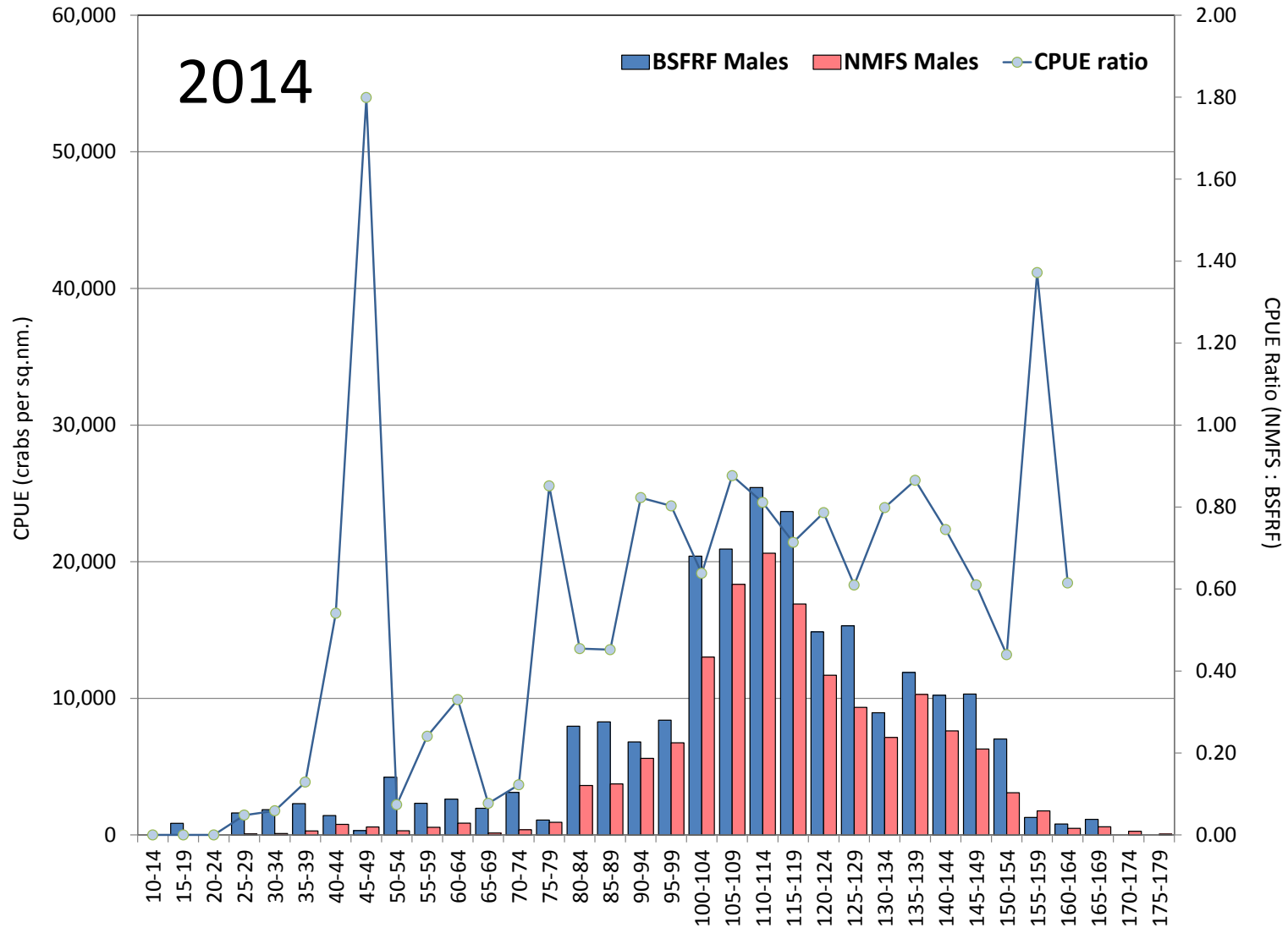
- What we have already? [variability/coverage]
- What is the strategy? [snow/king/Tanner]
- What we are doing this year? [mostly east]
- What's on the horizon – next year? [more west]



# Bairdi Trawl Selectivity – BSFRF data

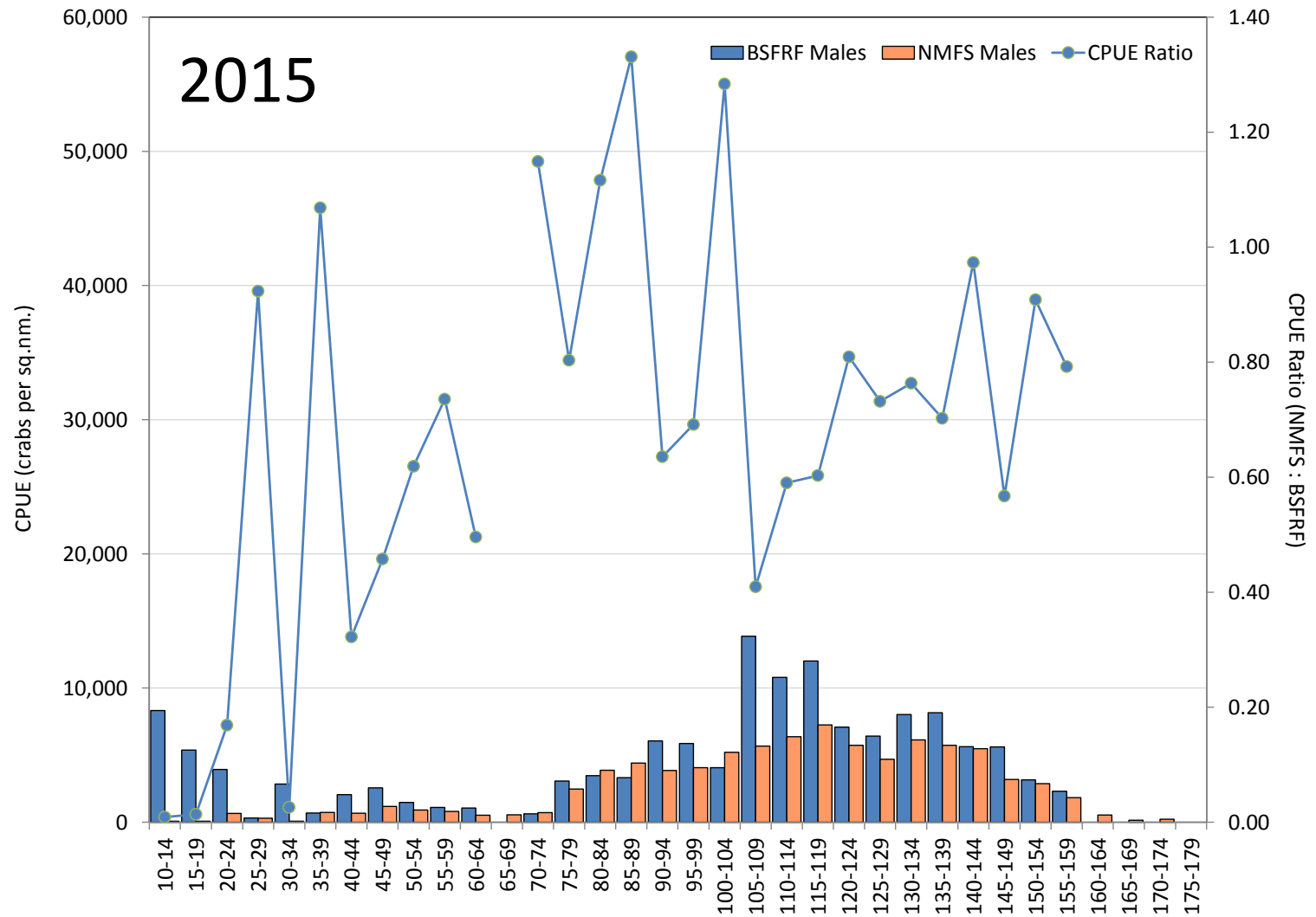


# Bairdi Trawl Selectivity – BSFRF data

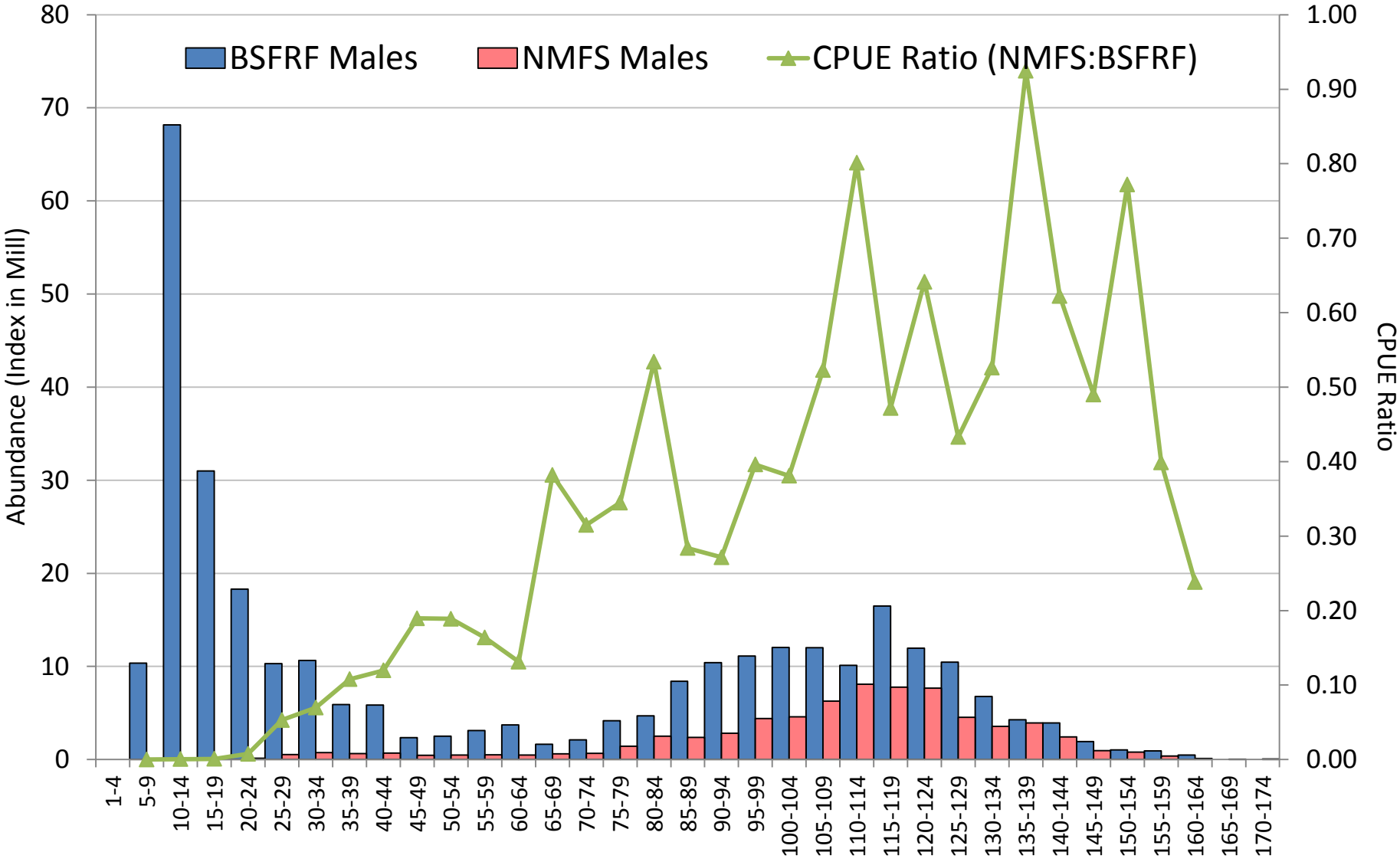




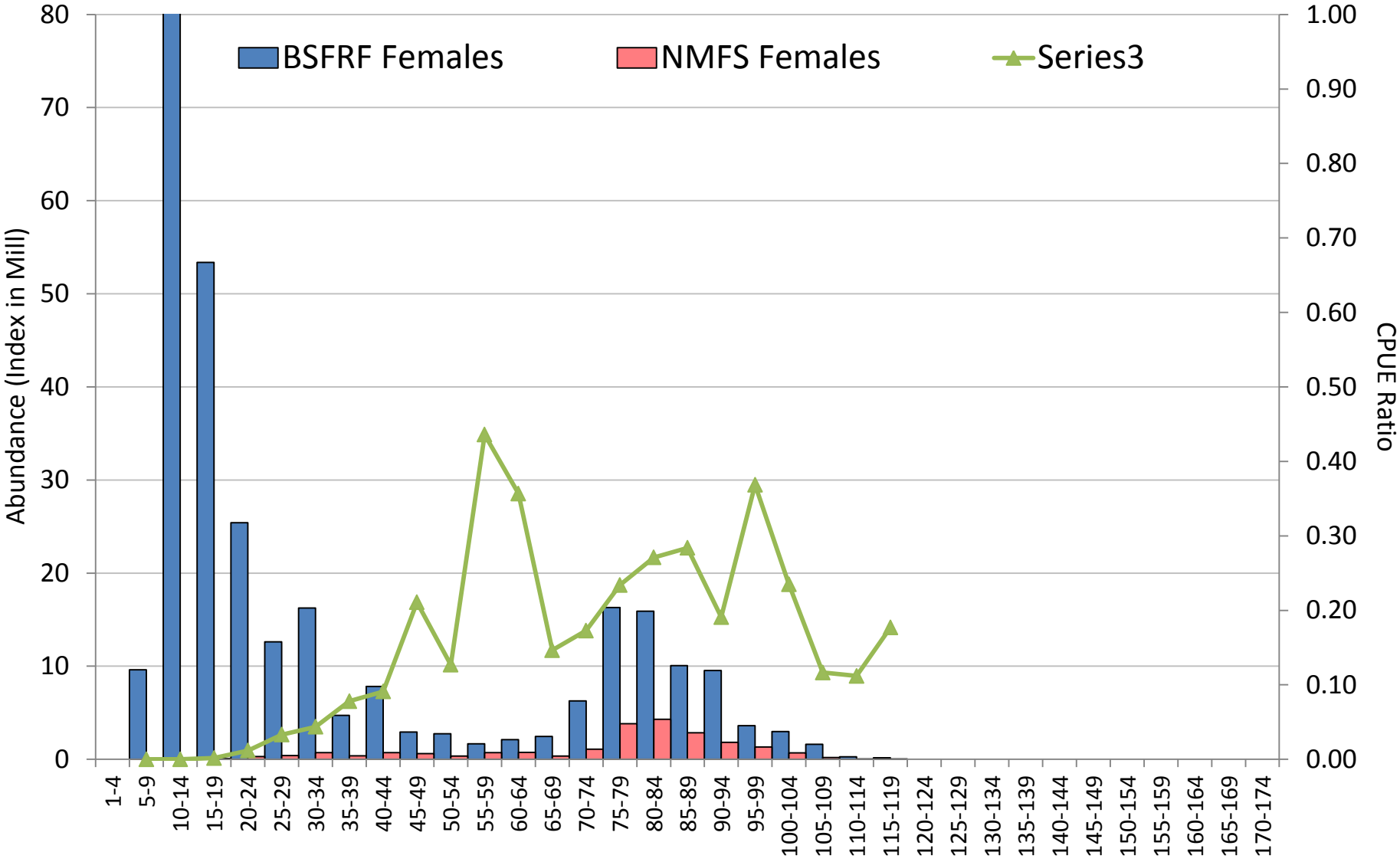
# Bairdi Trawl Selectivity – BSFRF data



# Bairdi Trawl Selectivity 2016 – Expanded Side by Side



# Bairdi Trawl Selectivity 2016 – Expanded Side by Side



Further review and data sharing ongoing  
with both agency cooperative partners  
for immediate and longer term bairdi status...



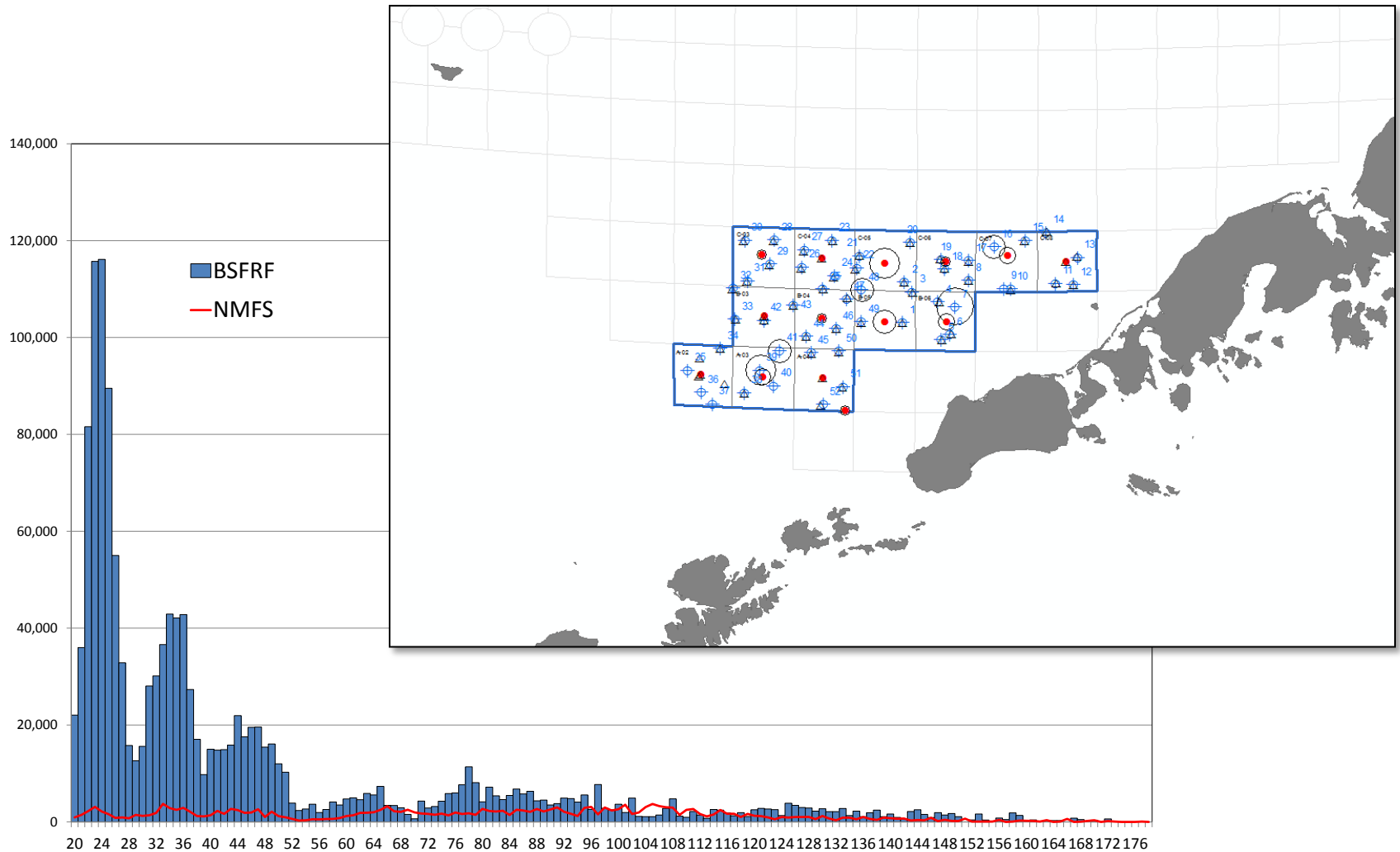
Scott Goodman, BSFRF  
September 21, 2016

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Leg 1/2, May 31-June 23



# Bairdi Trawl Selectivity 2016

## Two Surveys



# Questions