

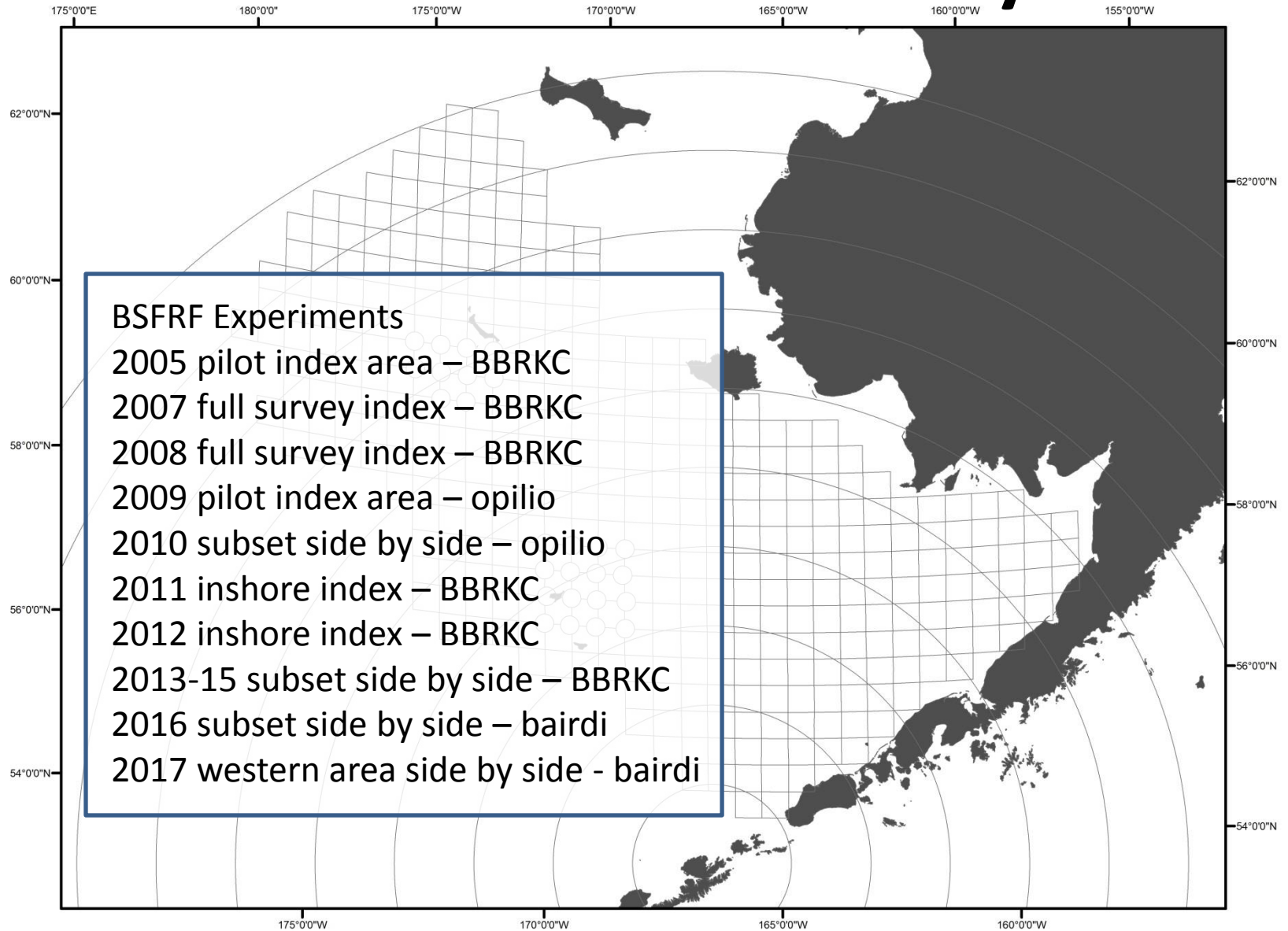
BSFRF Research Update - BBRKC/Bairdi Surveys CPT September 2016



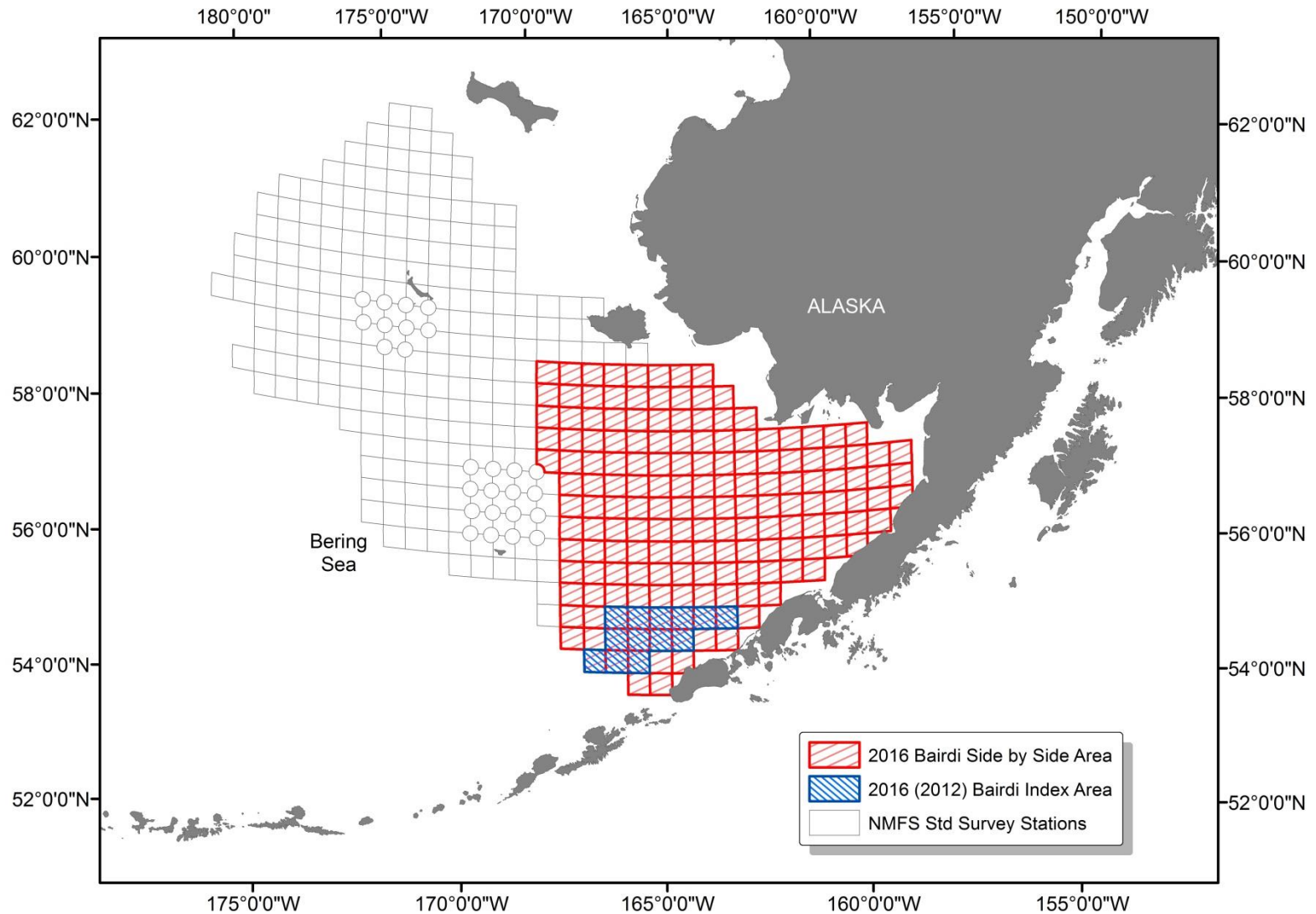
Scott Goodman, BSFRF
September 21, 2016

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

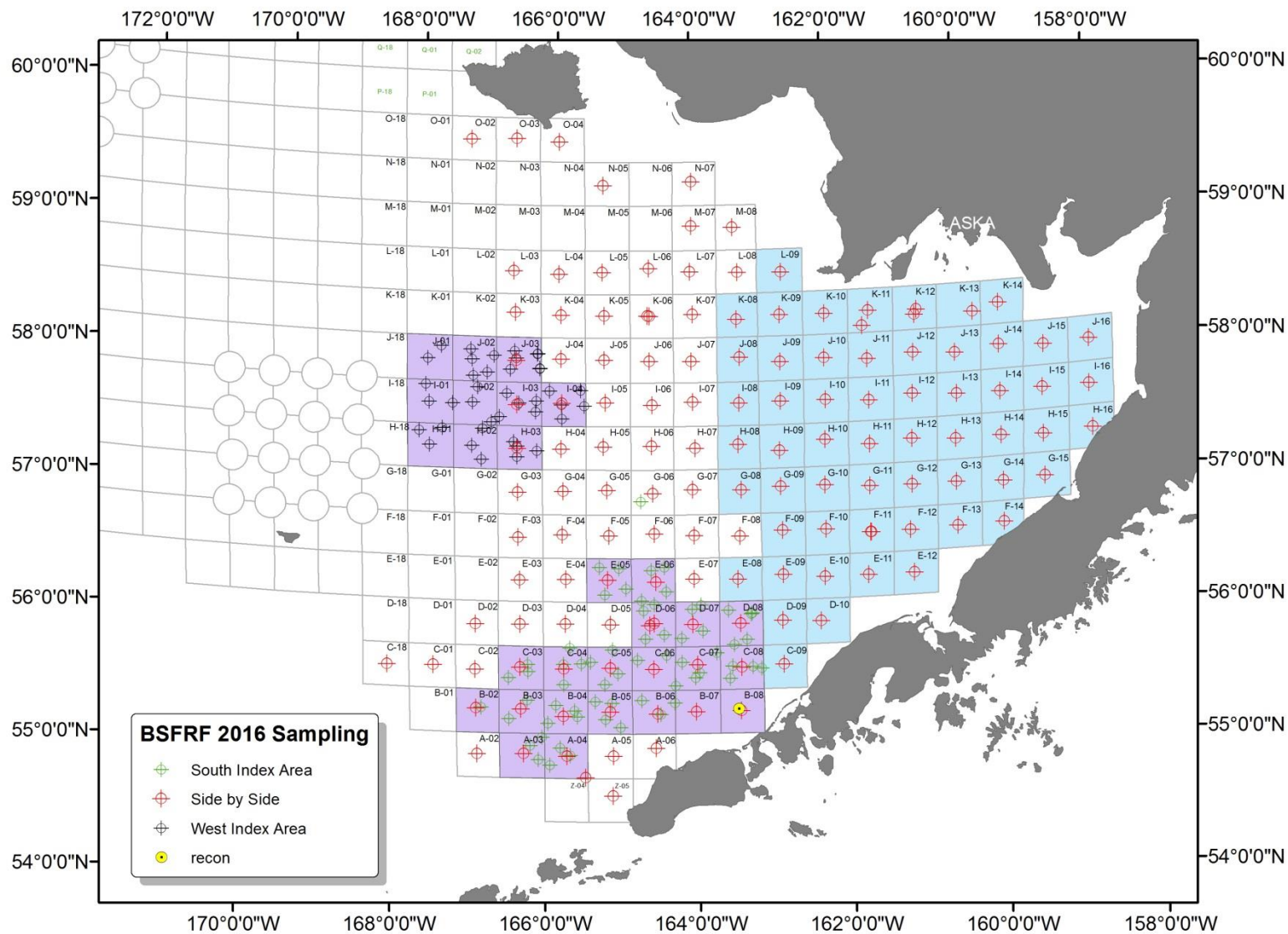
NFMS Trawl Selectivity



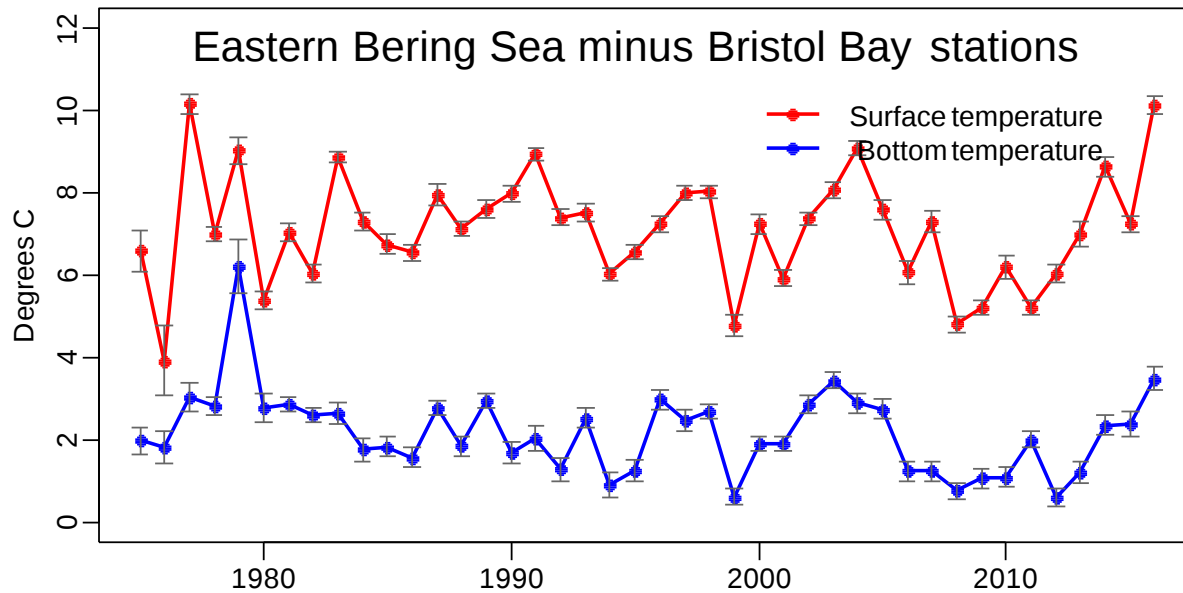
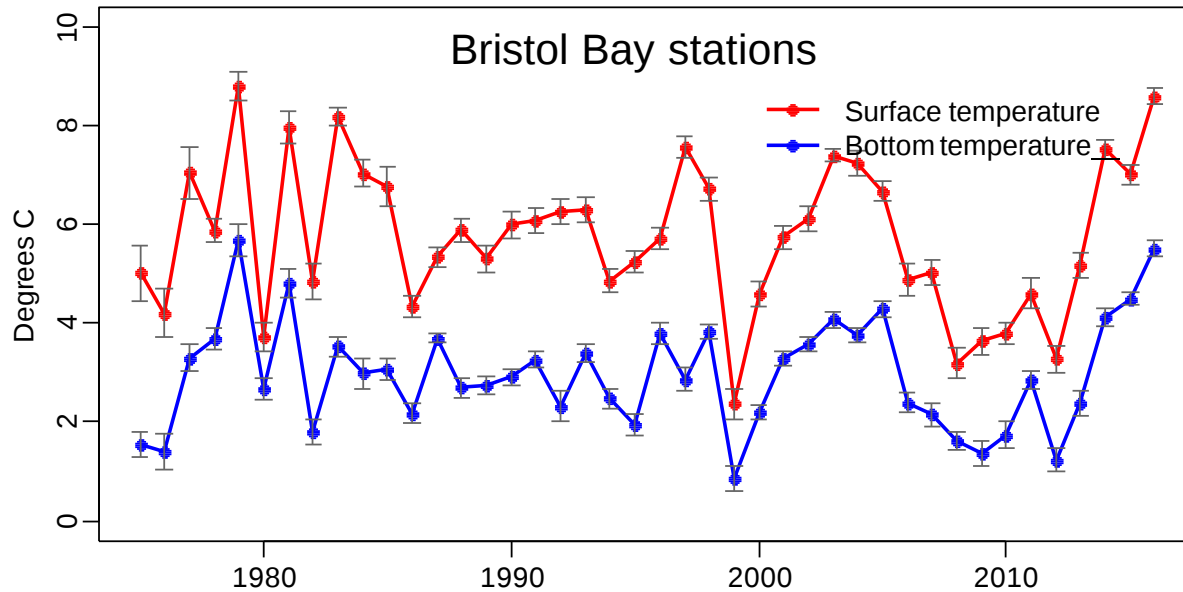
2016 Planned Sampling



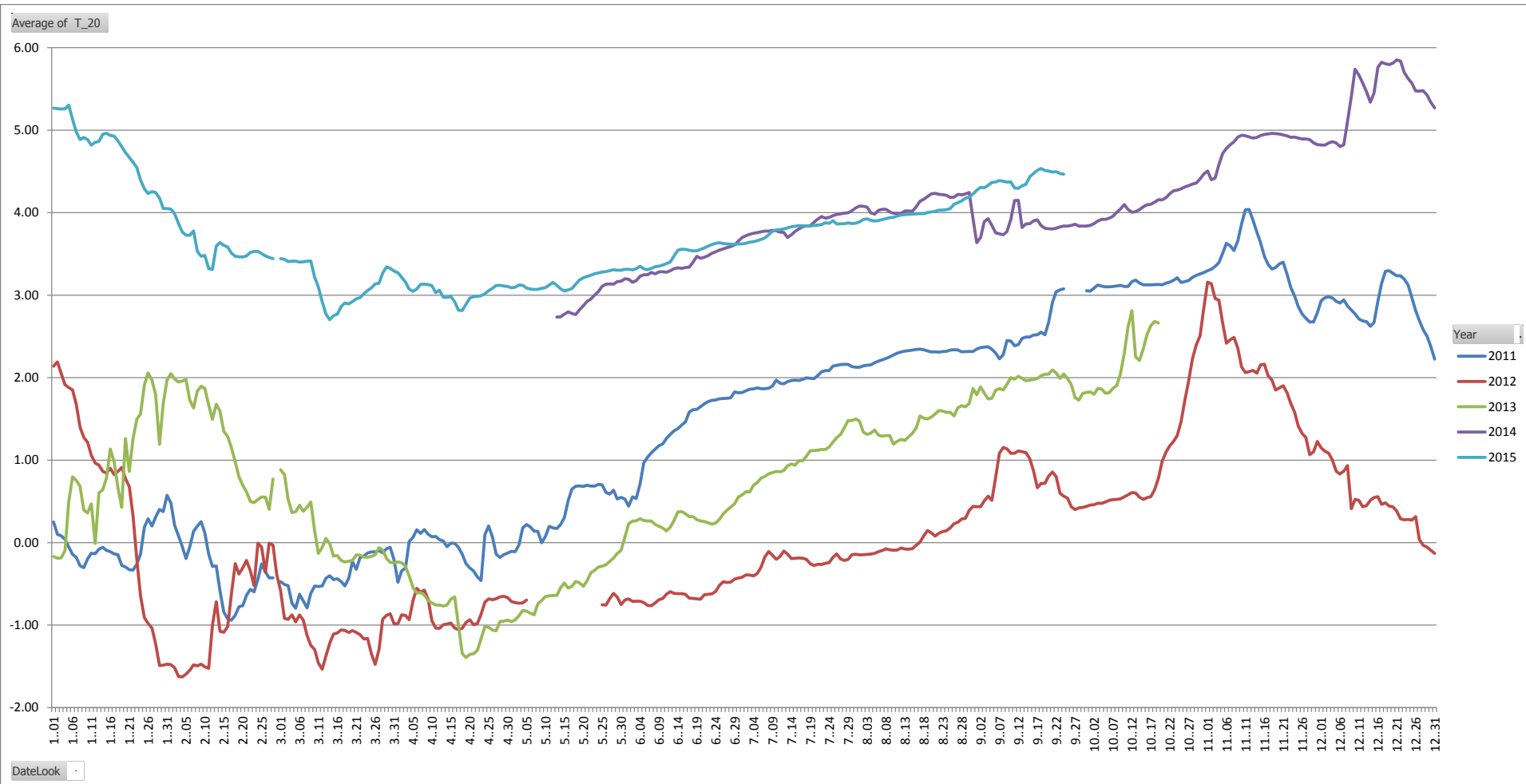
2016 Actual Sampling

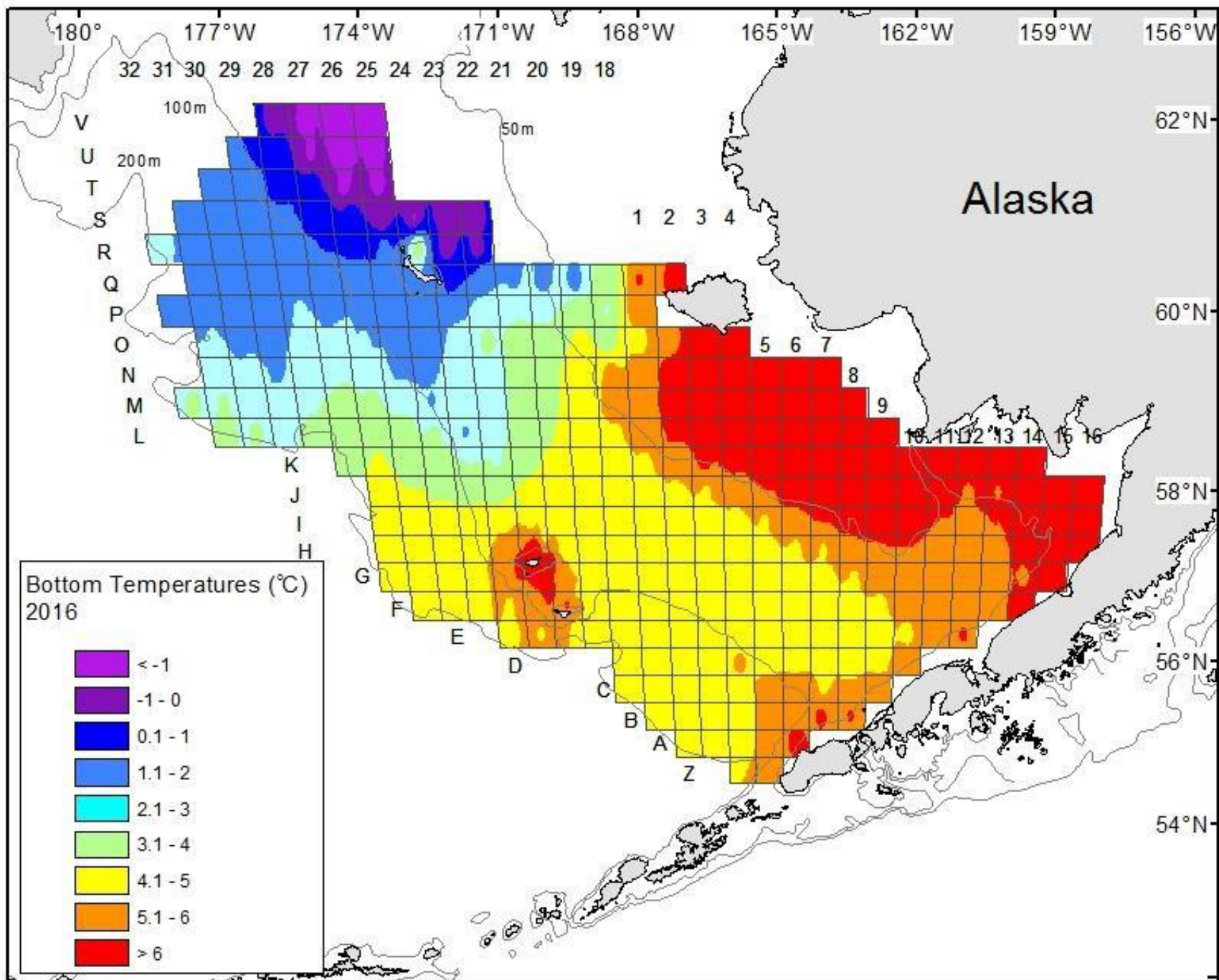


Bering Sea Temp – Recent Trends

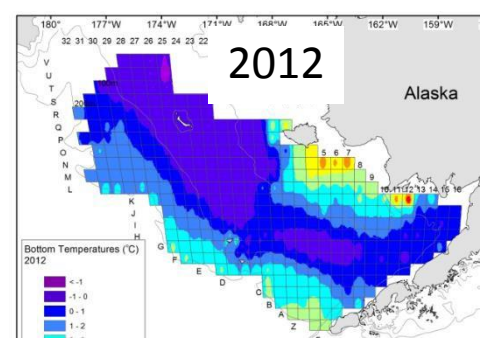
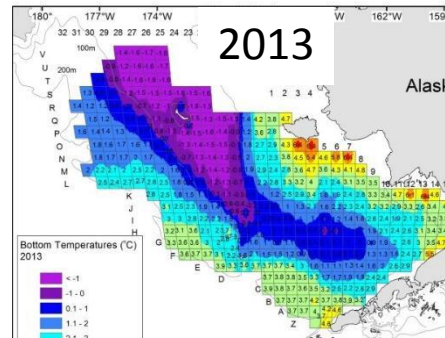
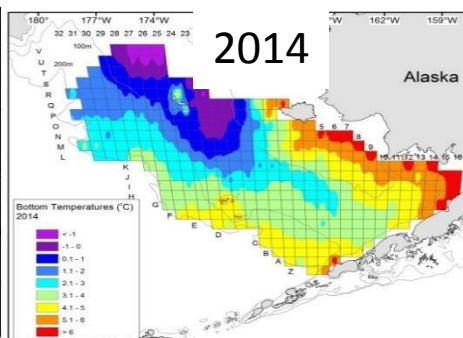
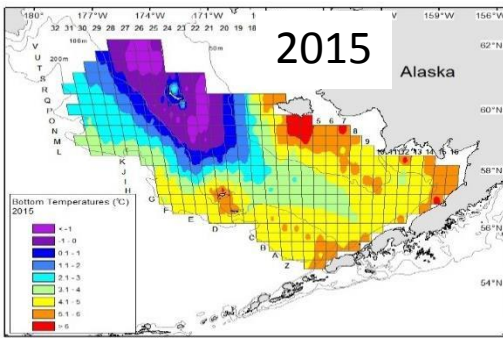
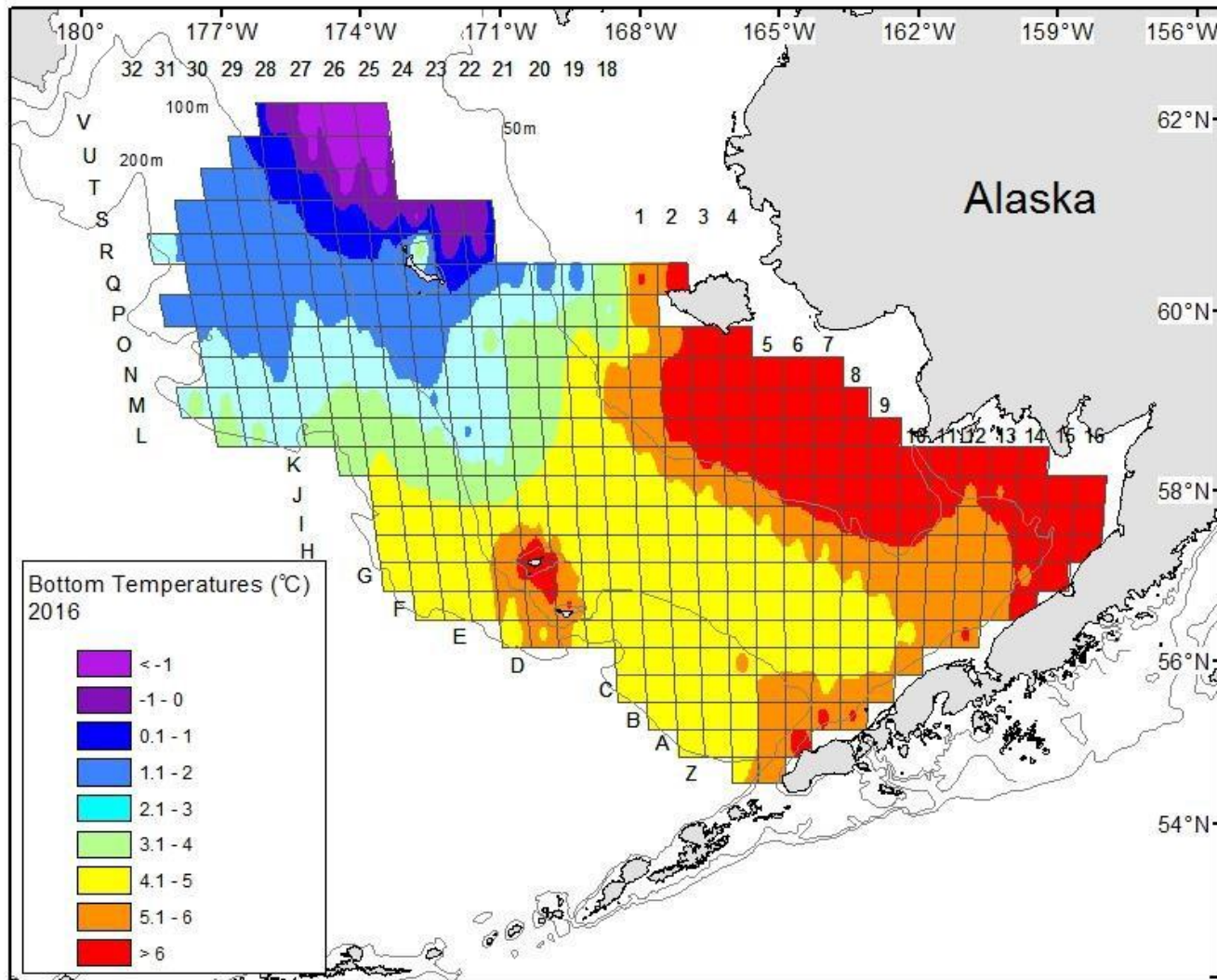


Bering Sea Temp – Recent Trends

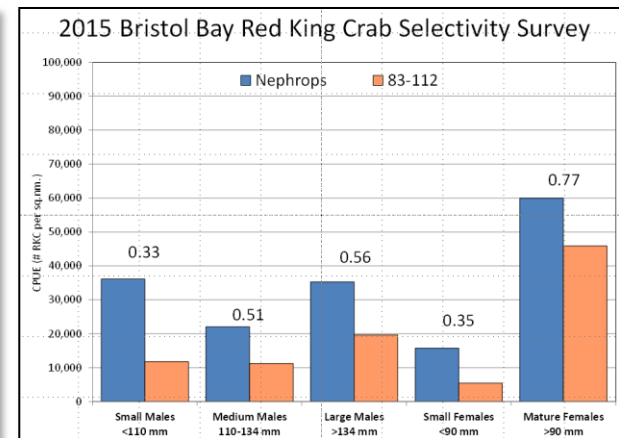
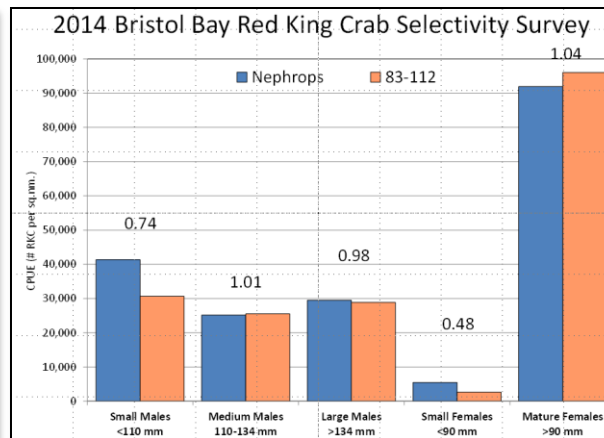
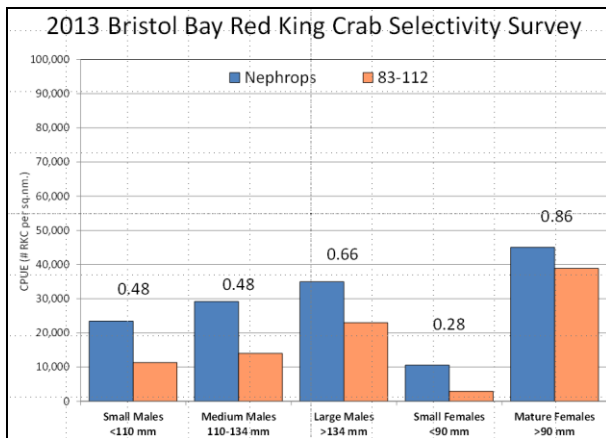
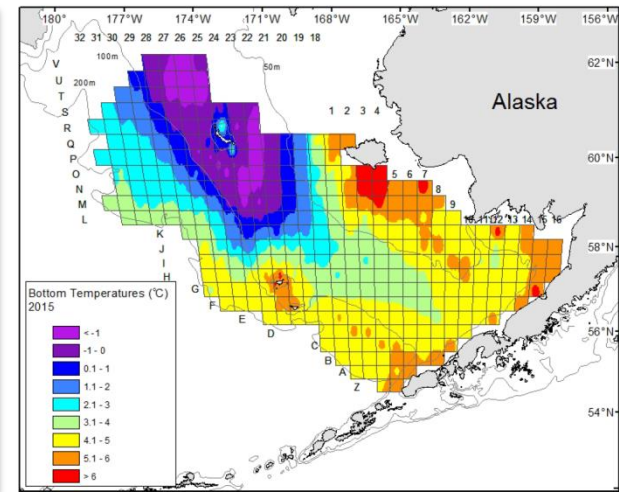
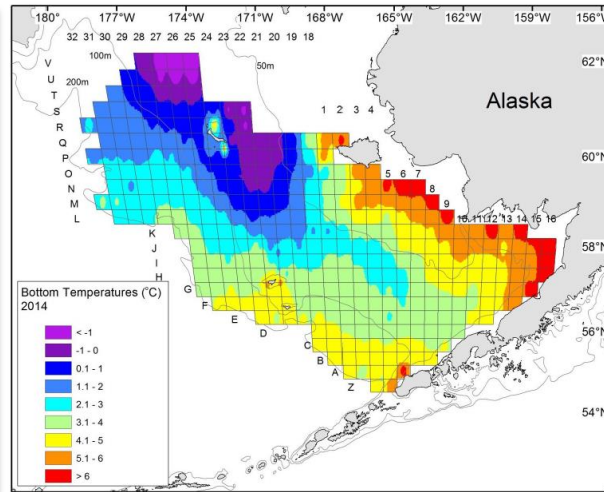
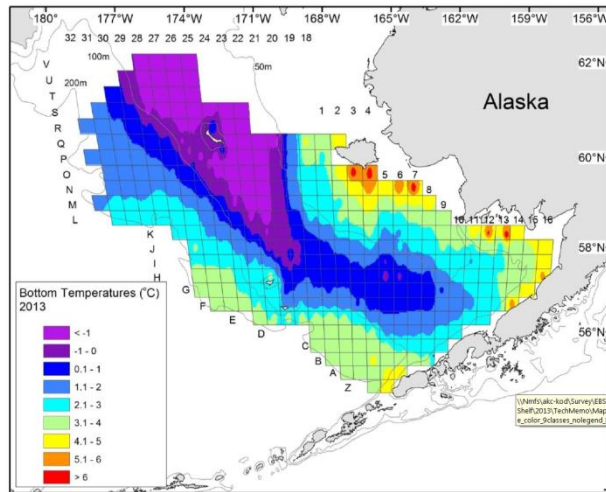




2016



BBRKC Trawl Selectivity 2013-2016

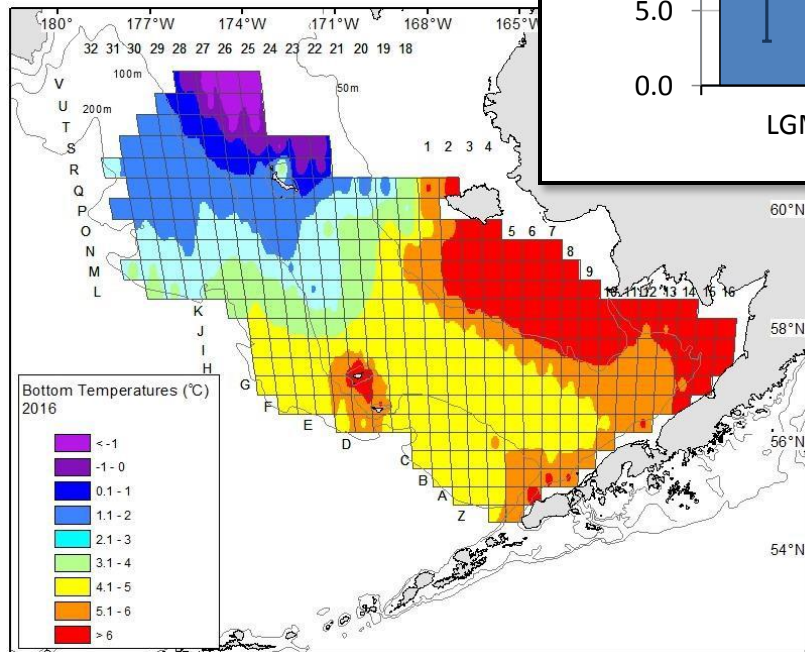
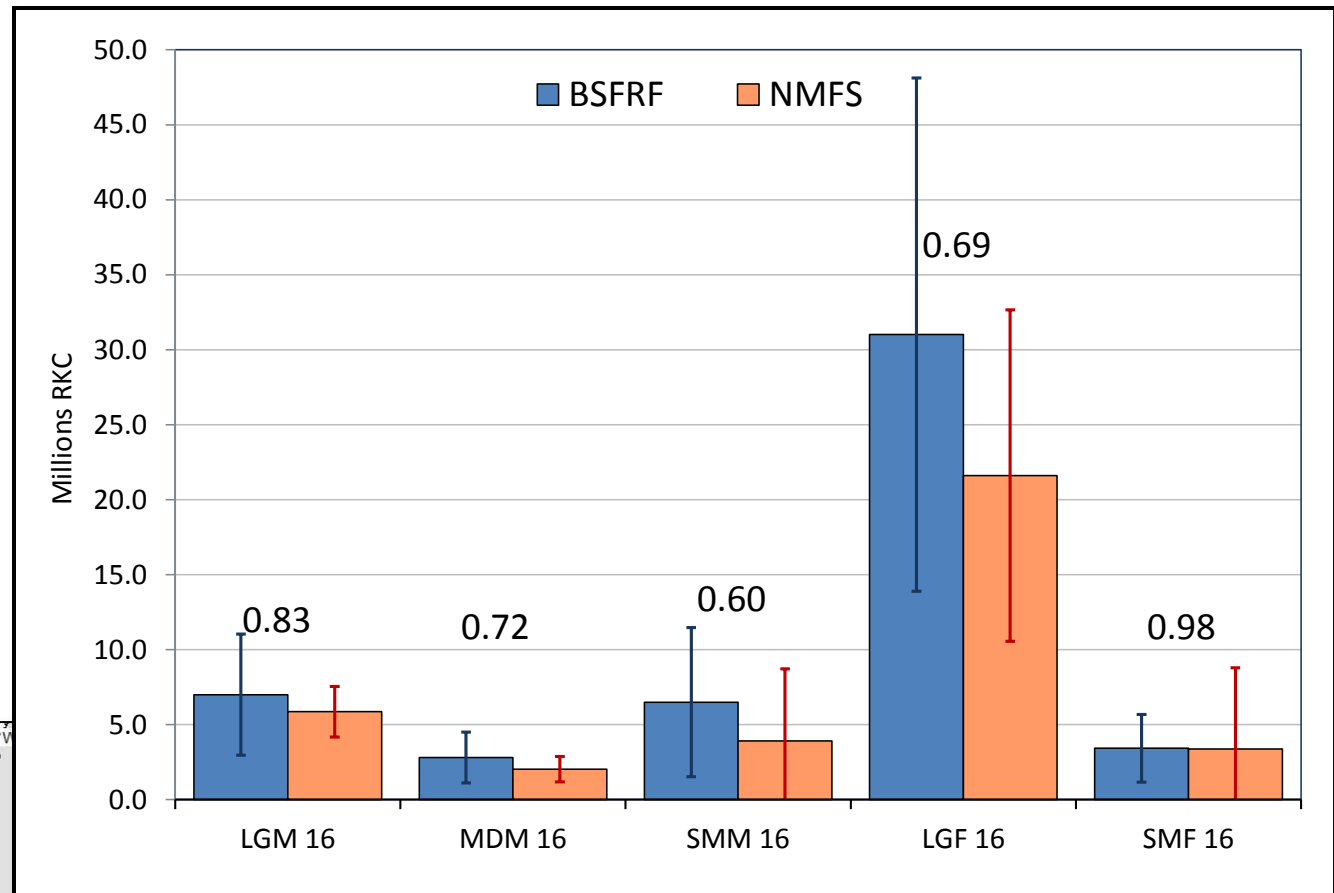


2013

2014

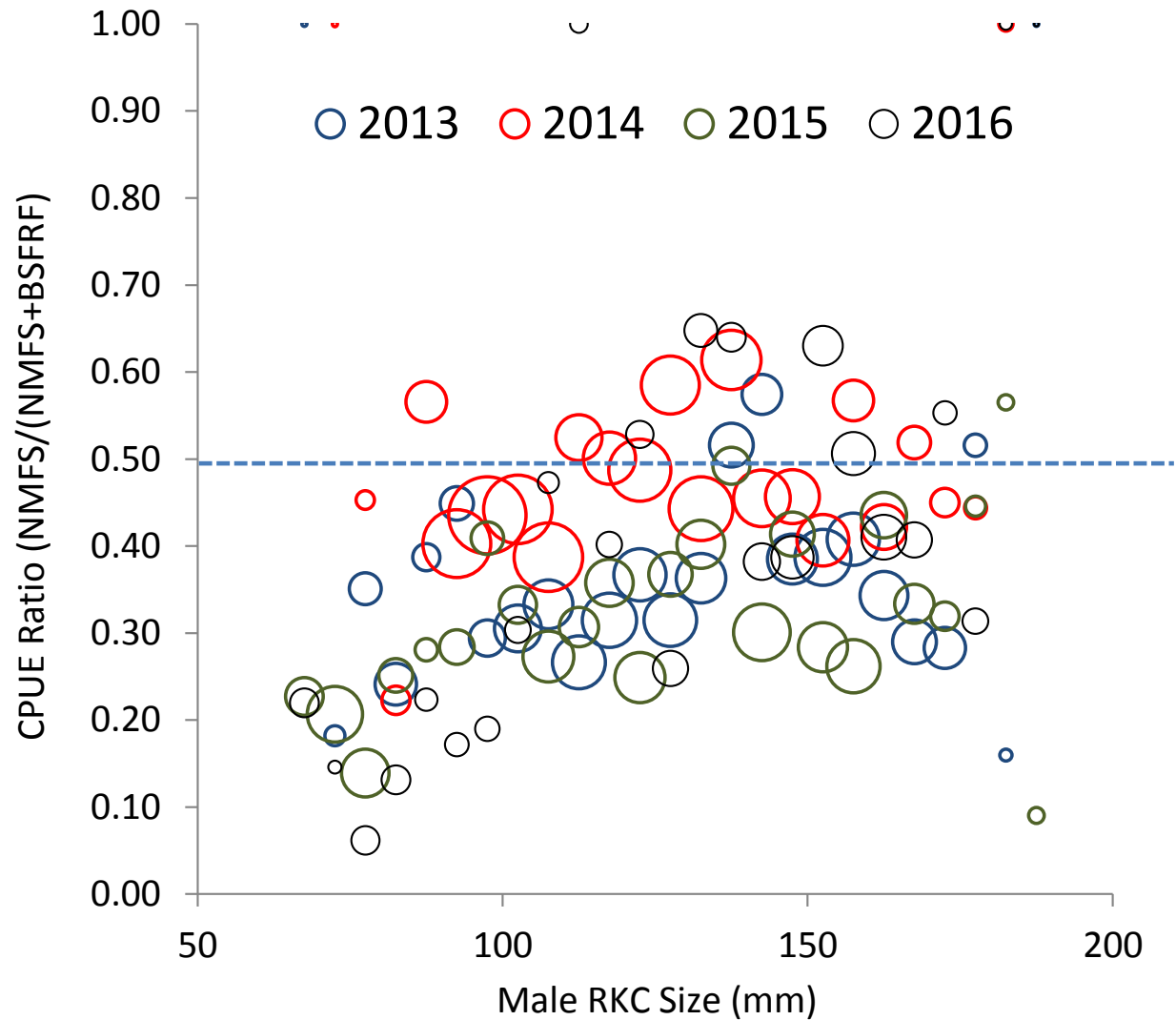
2015

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

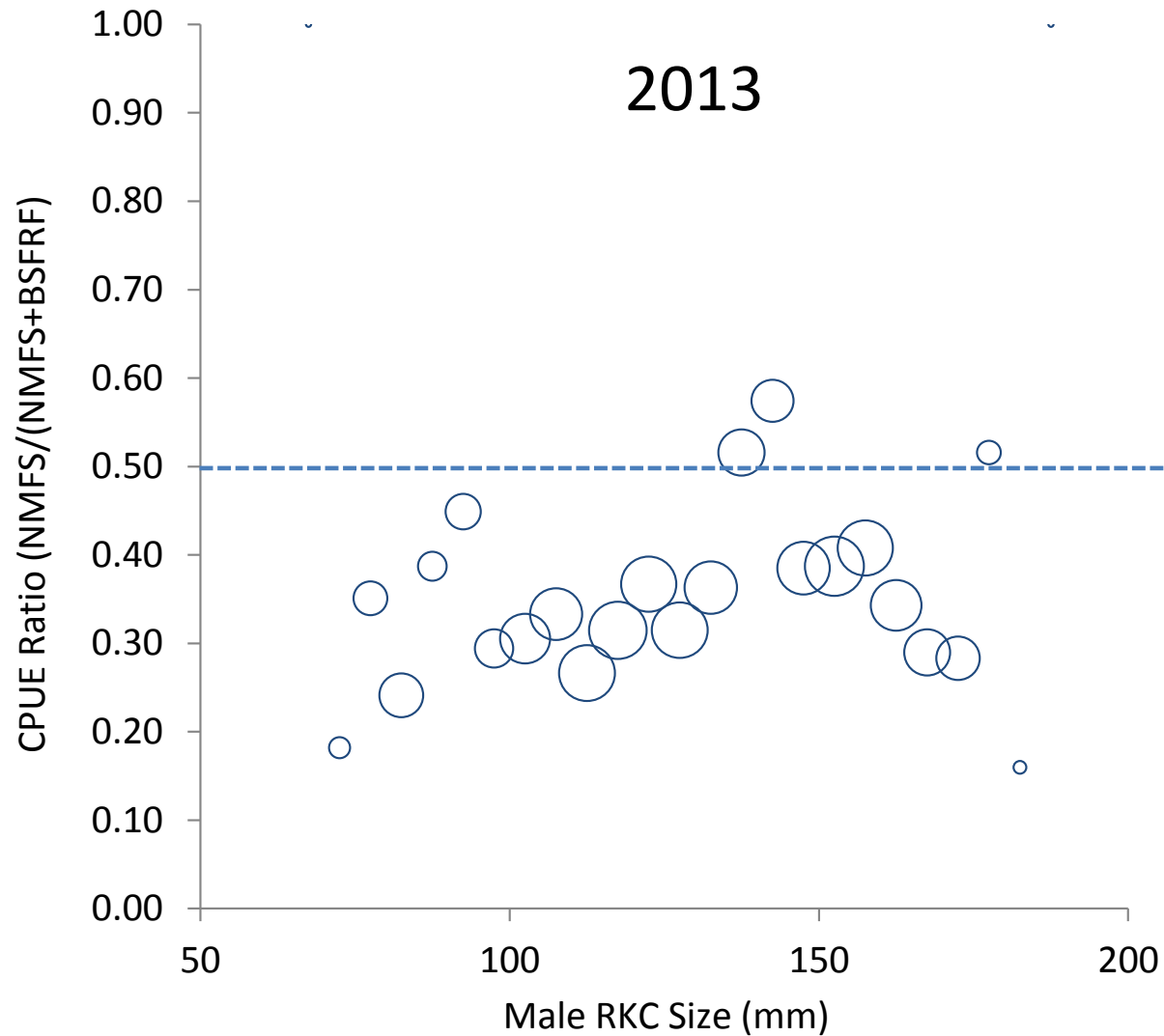


...trawl selectivity
CPUE Ratios by sex/size

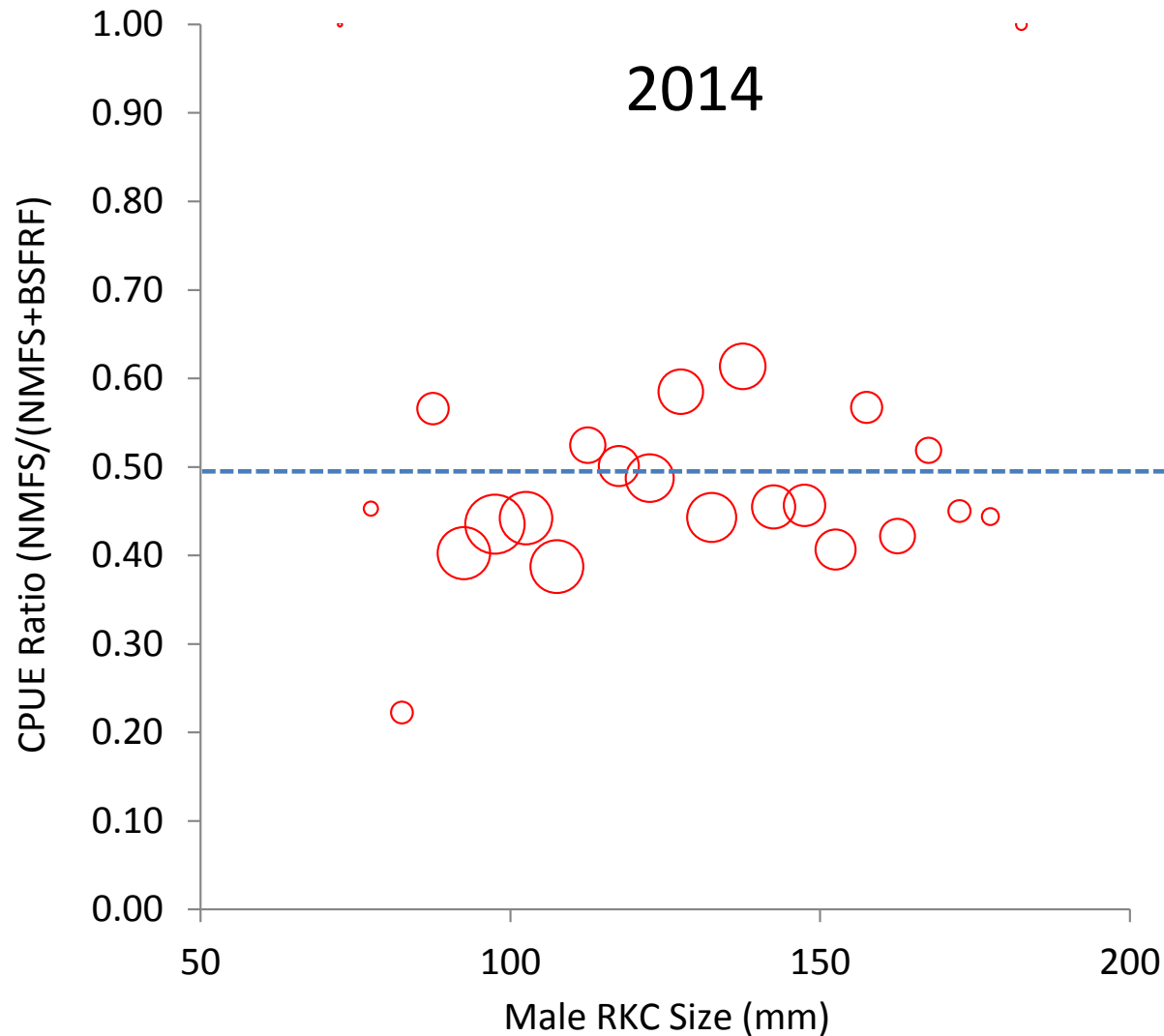
BBRKC Trawl Selectivity 2013-2016



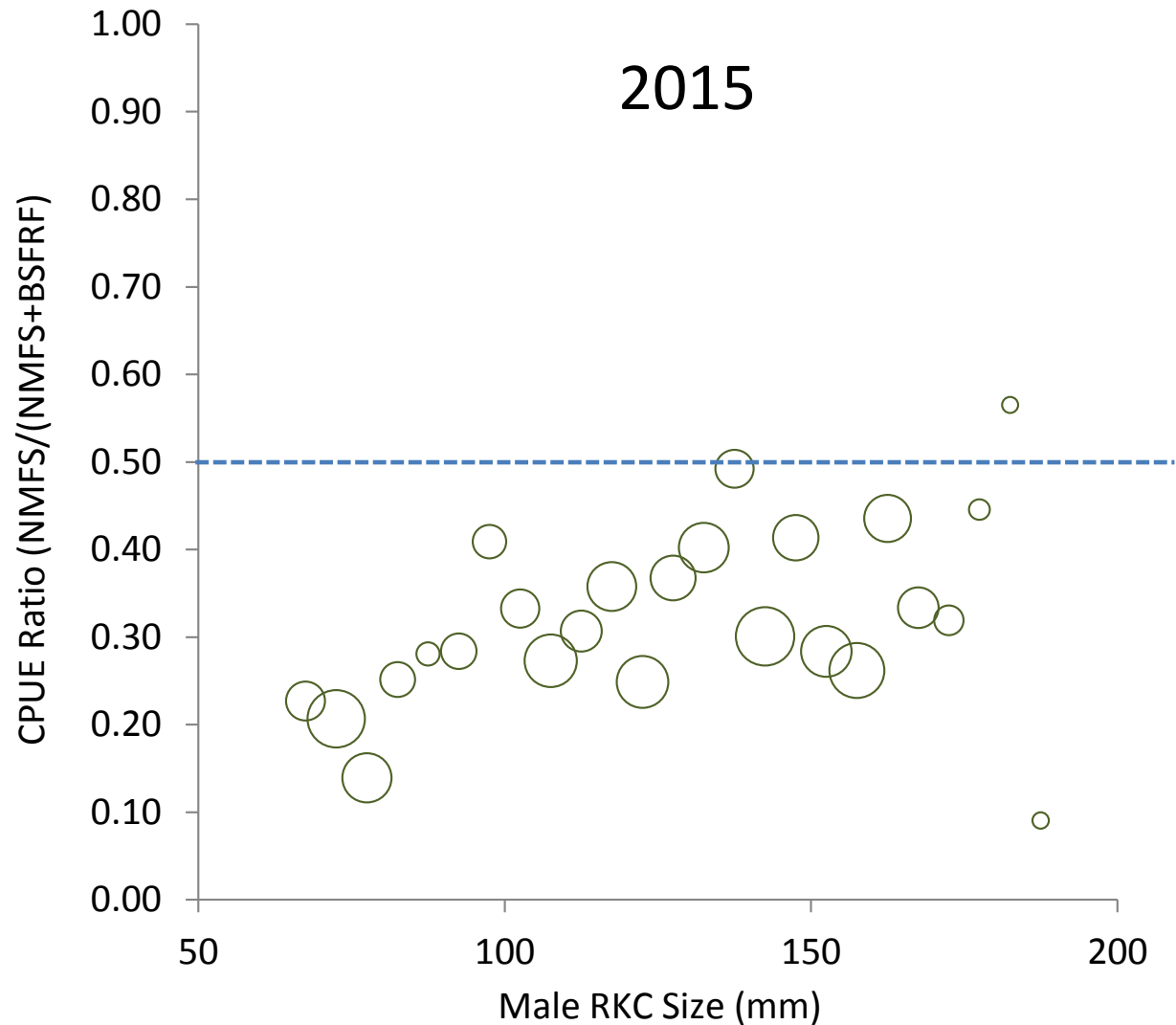
BBRKC Trawl Selectivity 2013-2016



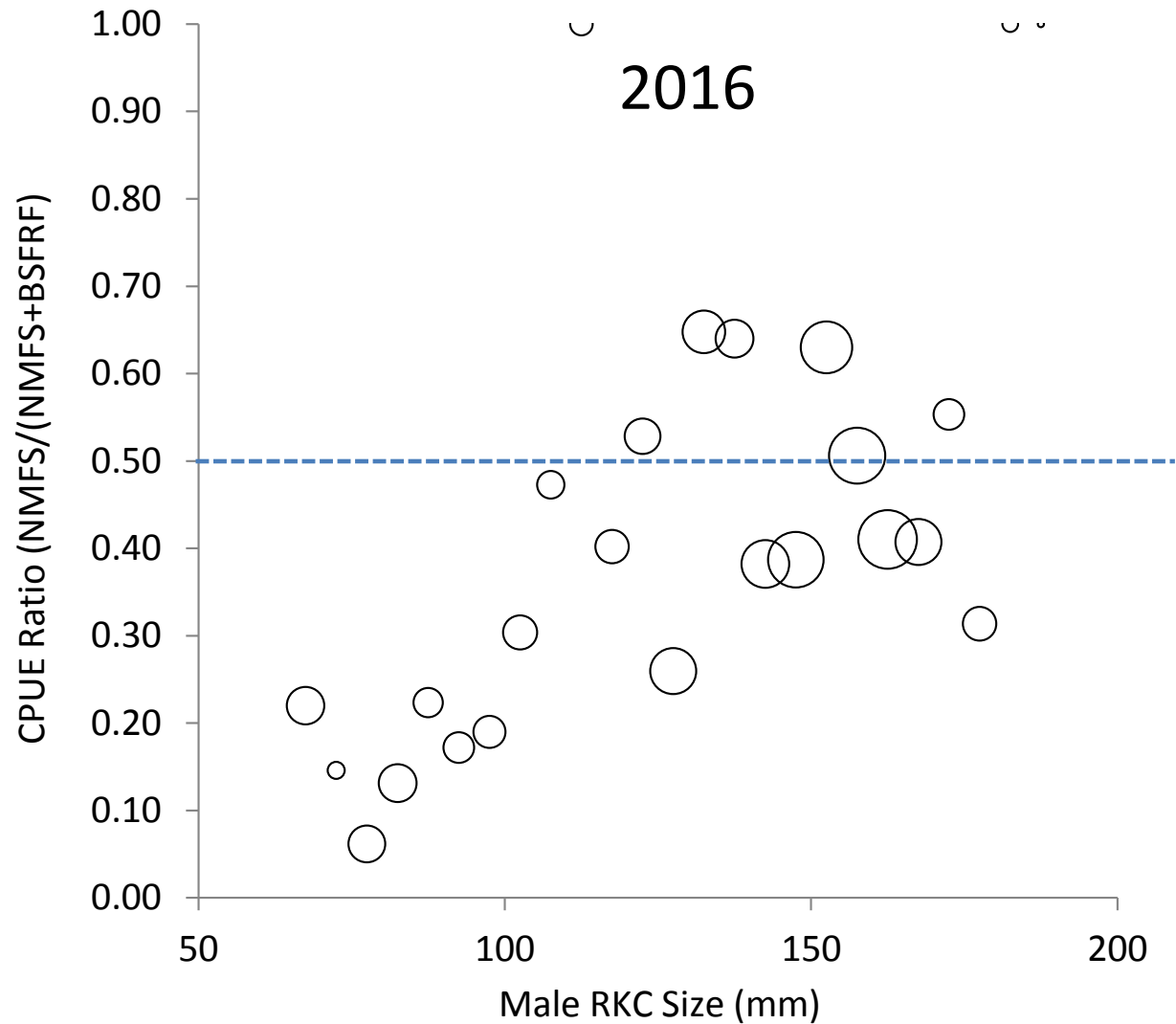
BBRKC Trawl Selectivity 2013-2016



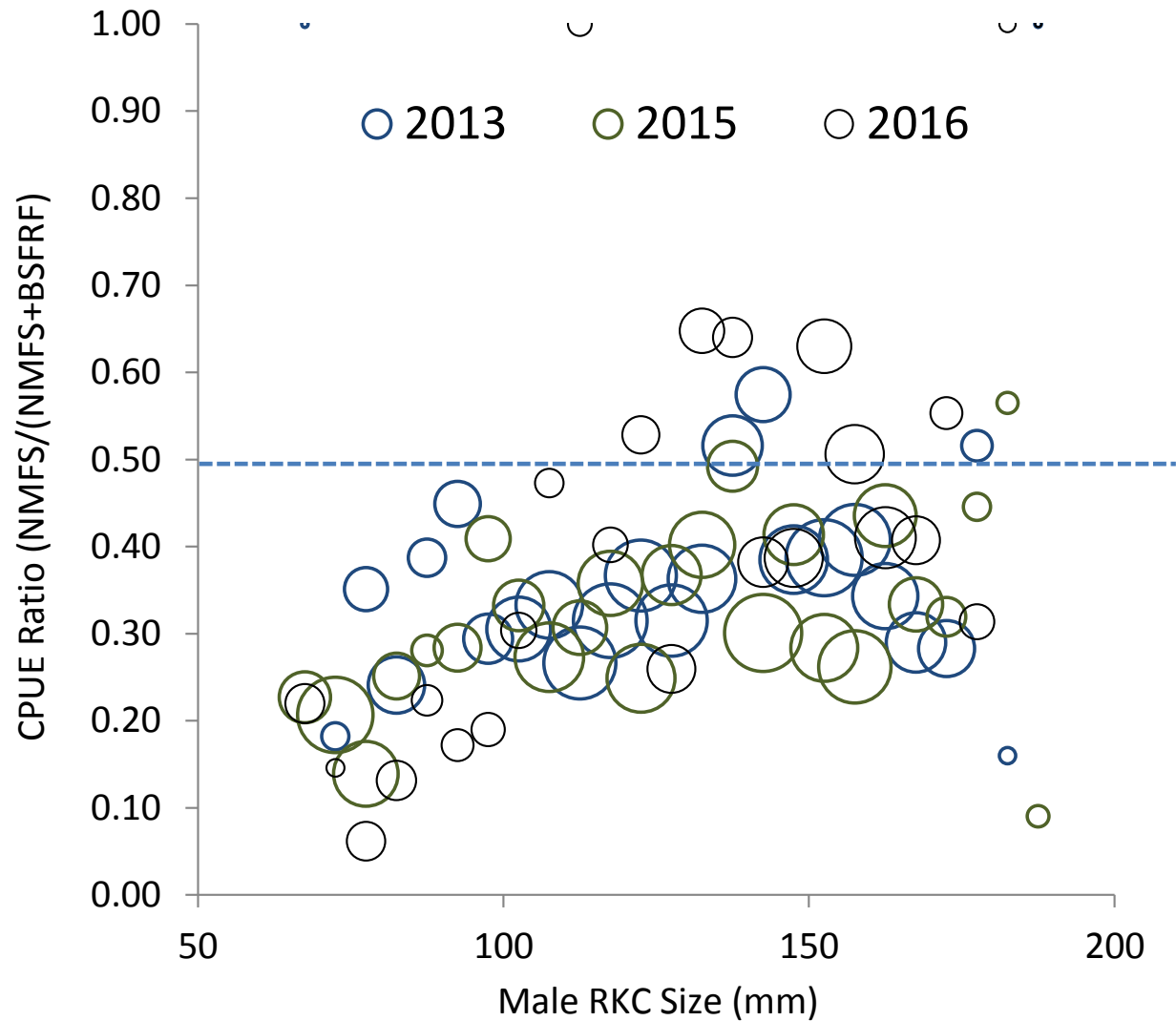
BBRKC Trawl Selectivity 2013-2016



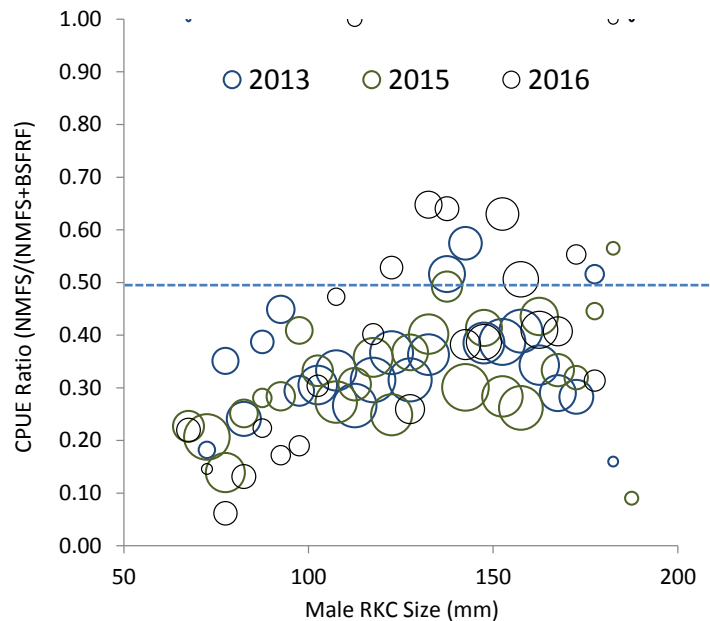
BBRKC Trawl Selectivity 2013-2016



BBRKC Trawl Selectivity 2013-2016



Estimating Trawl Selectivity Accurately



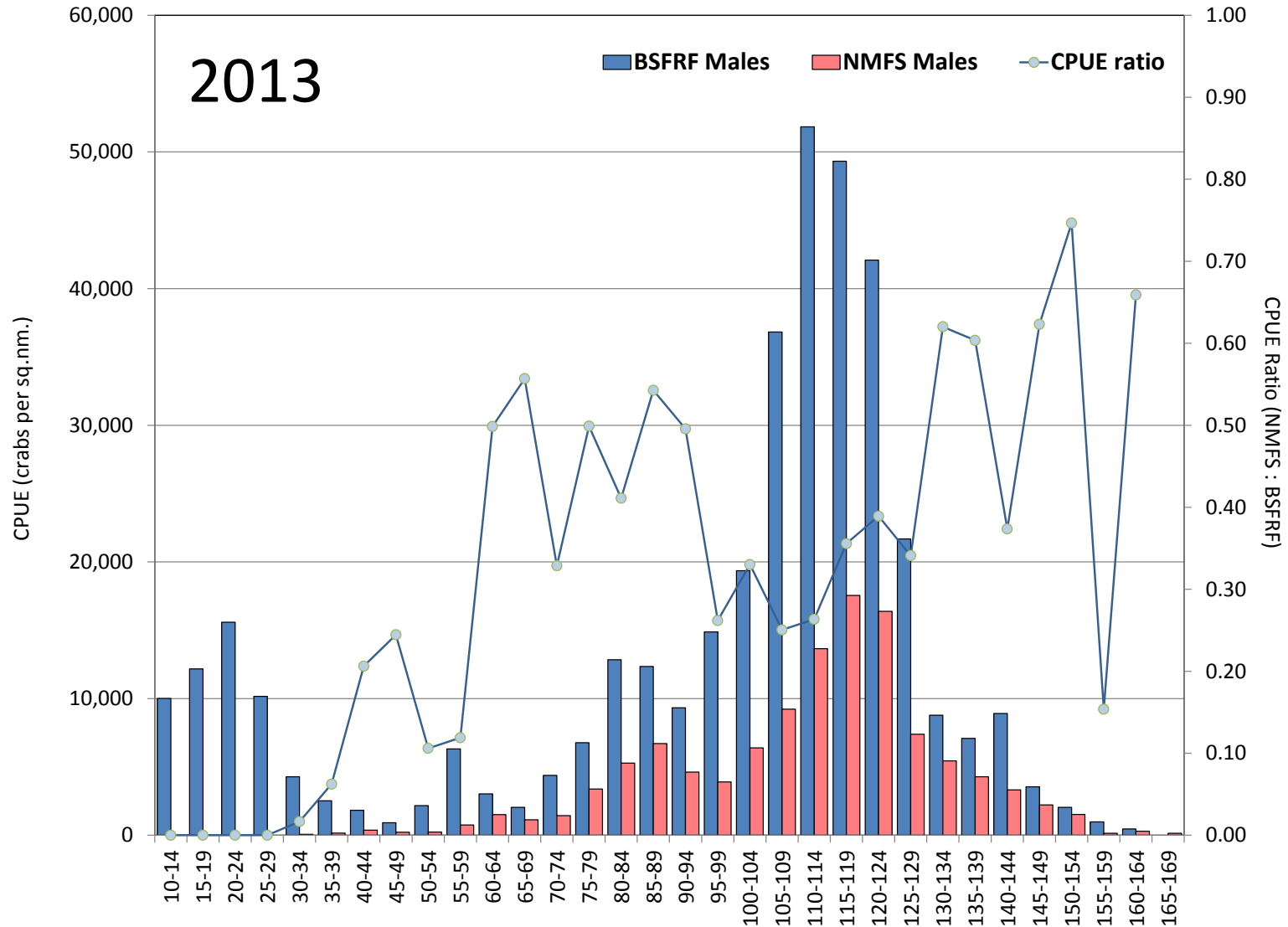
- Updating temporal/spatial trends
- Revising methods per model/species
- Addressing variability in data
- NMFS survey availability
- Other survey availability
- Model scenario selection
- Current models v. GMACs
- Spatial modeling
- Incorporating new data
- Consistent methods across models

Bairdi Trawl Selectivity

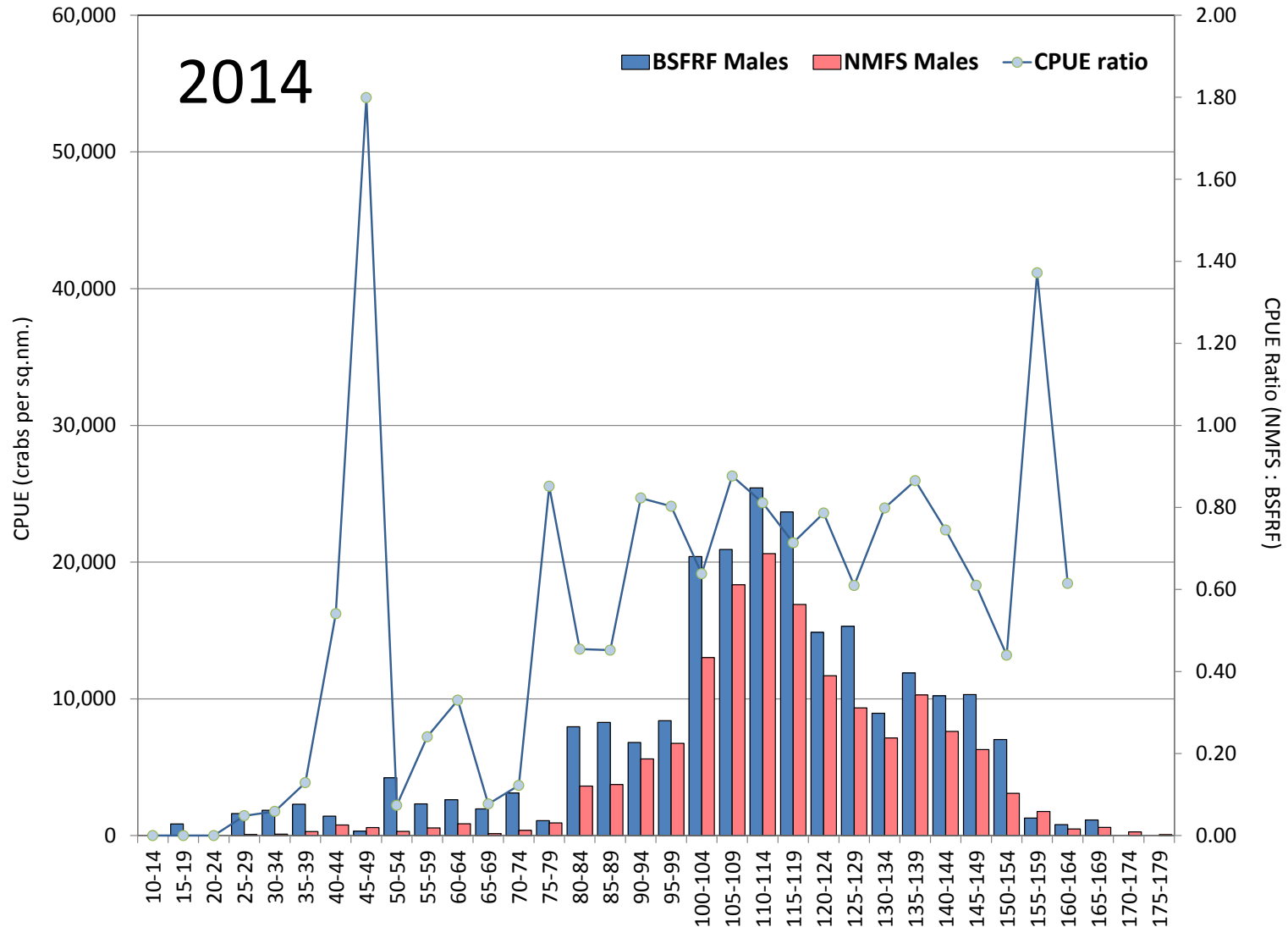
- What we have already? [variability/coverage]
- What is the strategy? [snow/king/Tanner]
- What we are doing this year? [mostly east]
- What's on the horizon – next year? [more west]



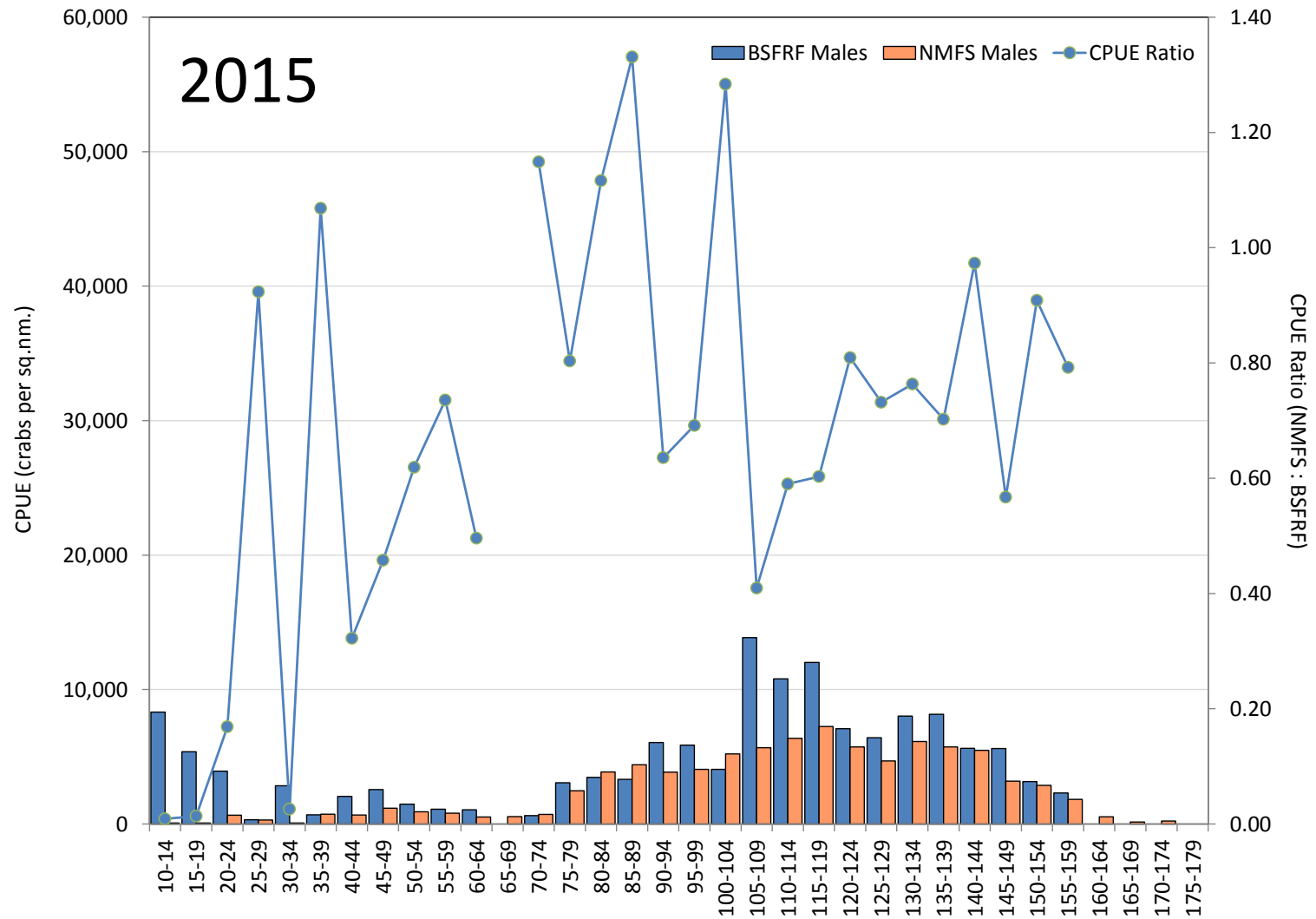
Bairdi Trawl Selectivity – BSFRF data



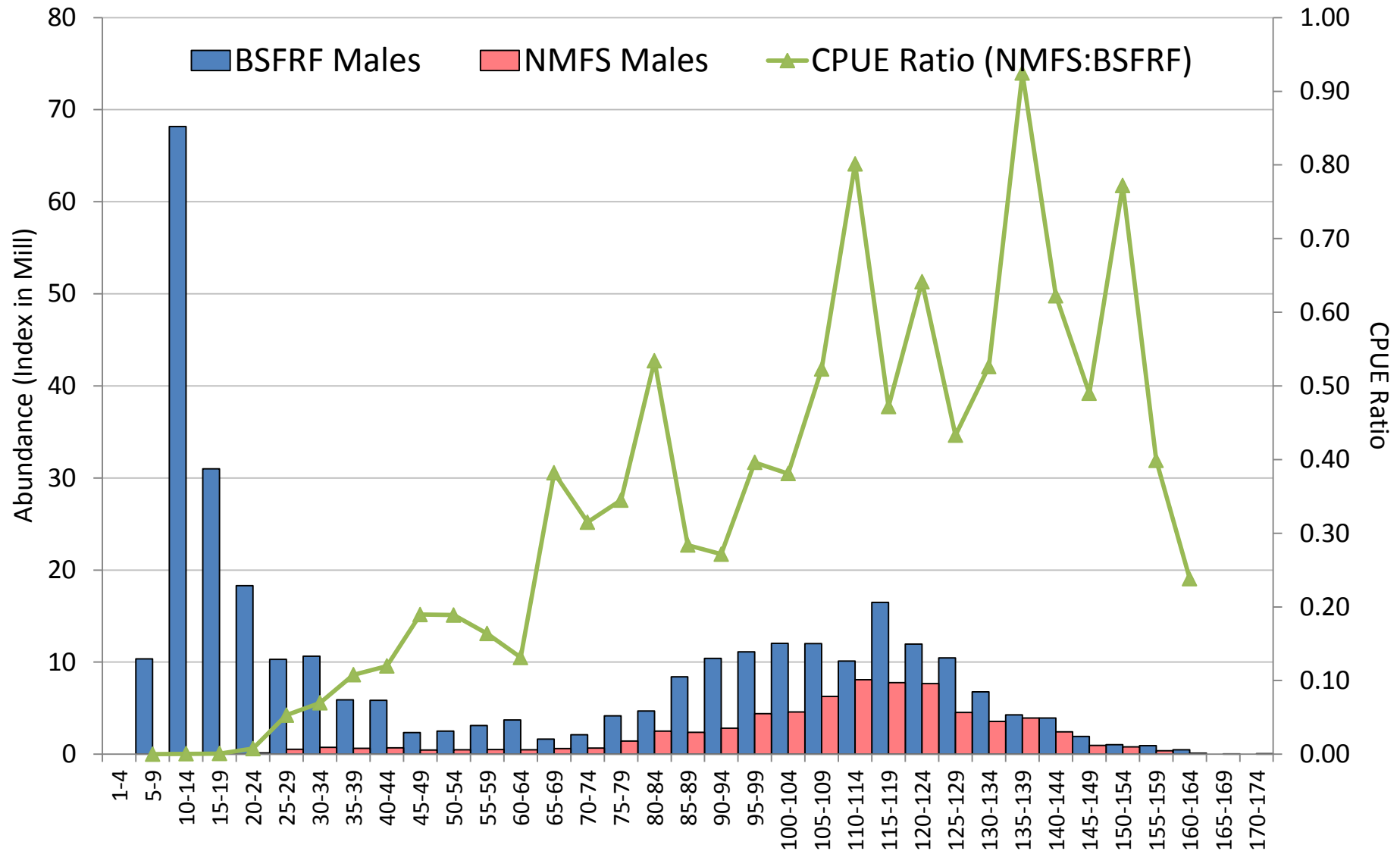
Bairdi Trawl Selectivity – BSFRF data



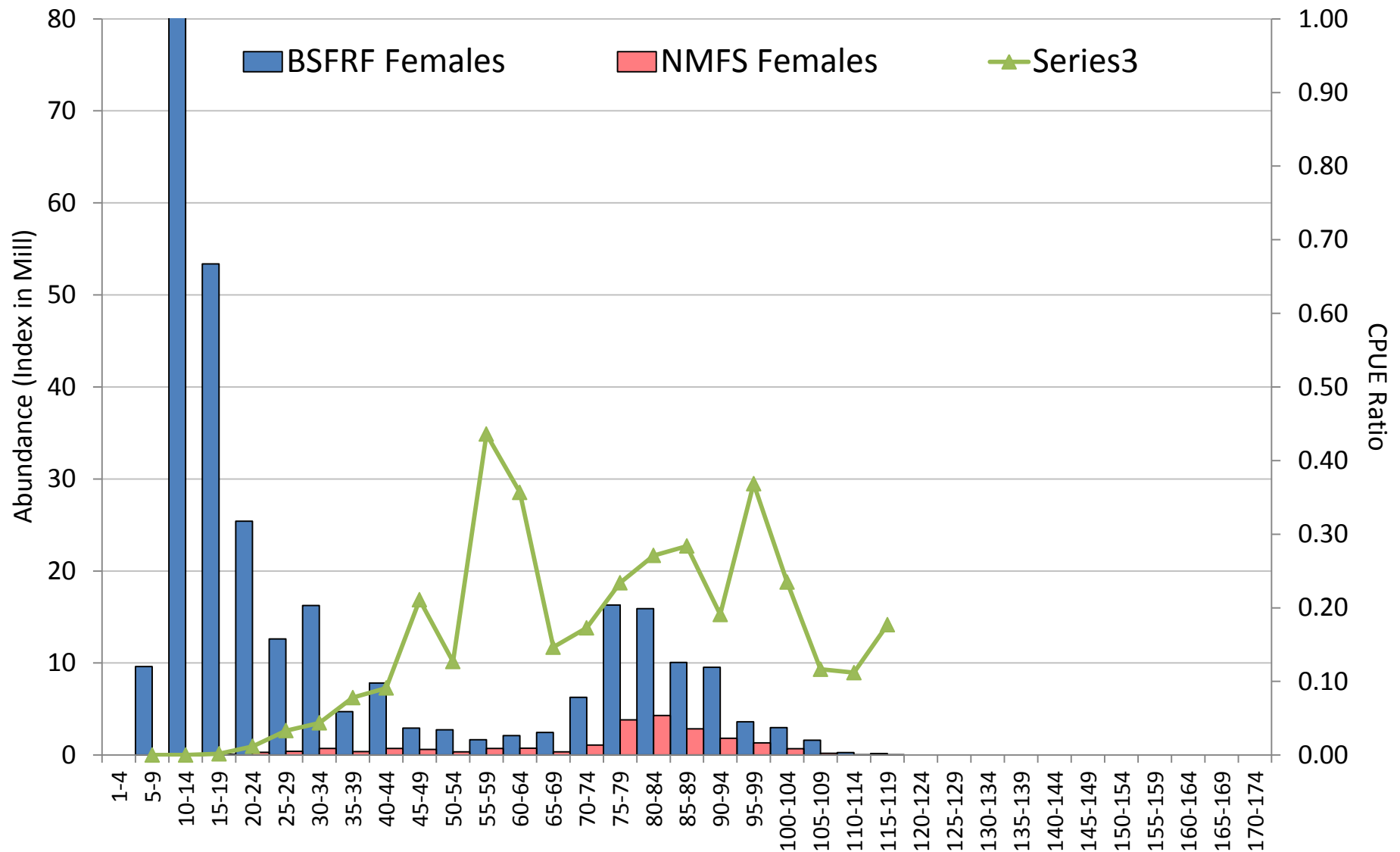
Bairdi Trawl Selectivity – BSFRF data



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...

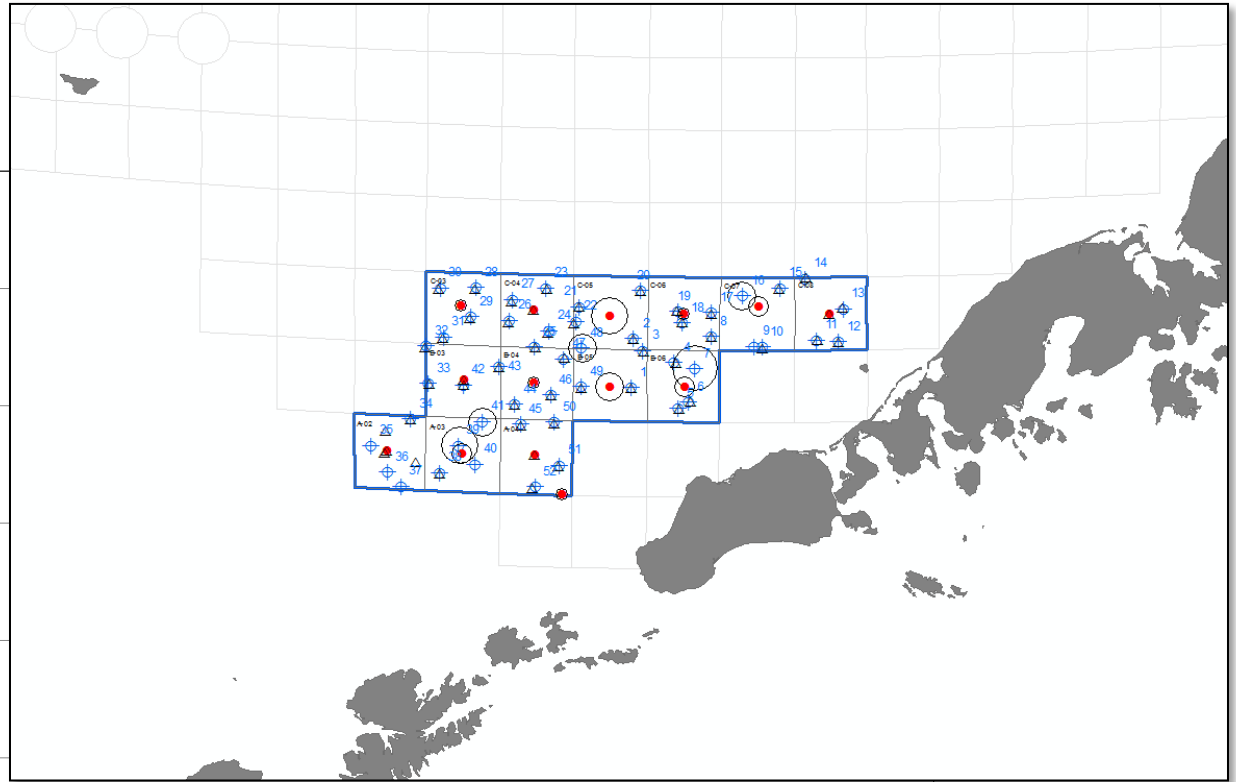
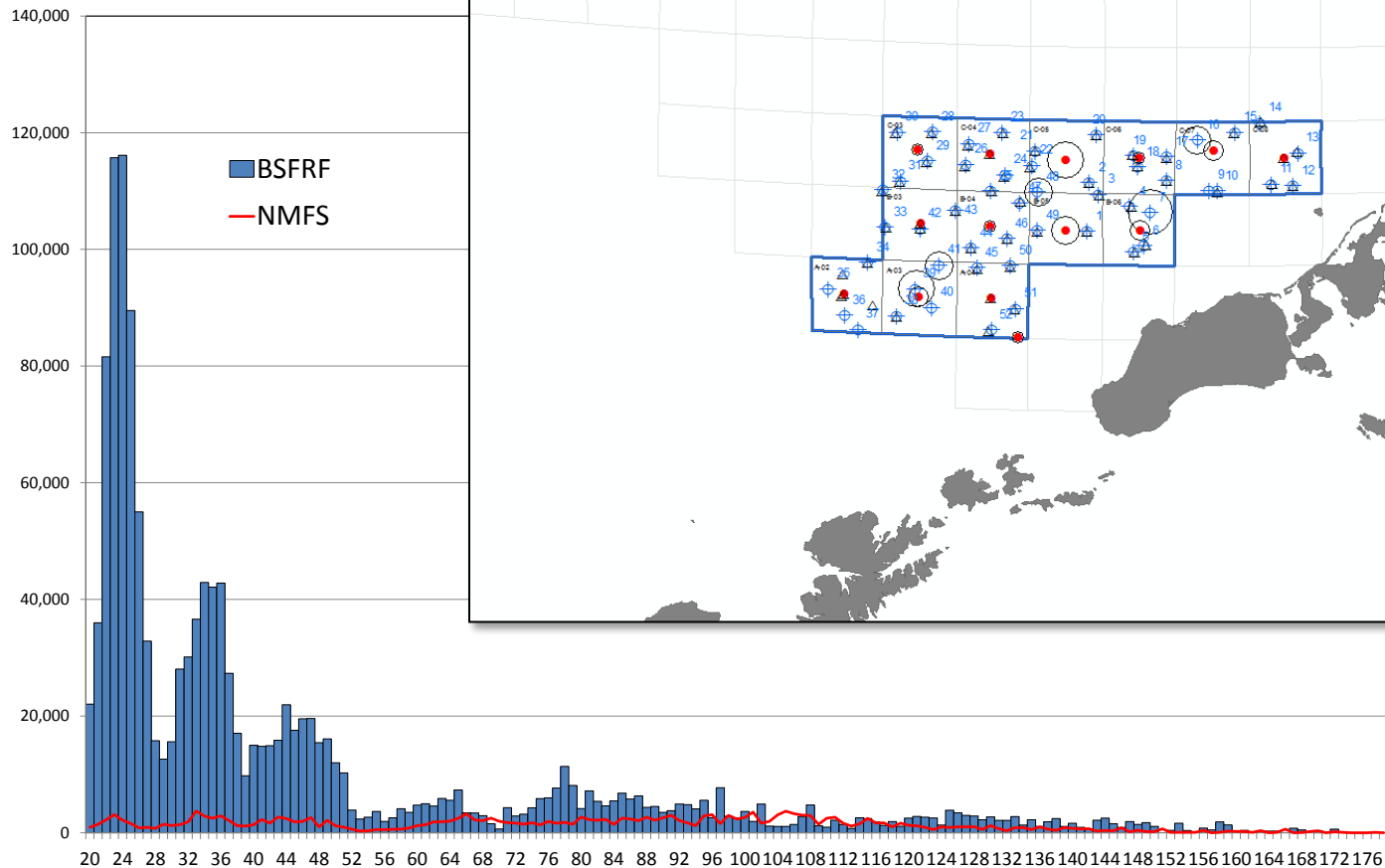


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Bairdi Trawl Selectivity 2016

Two Surveys



Questions