Science, Service, Stewardship

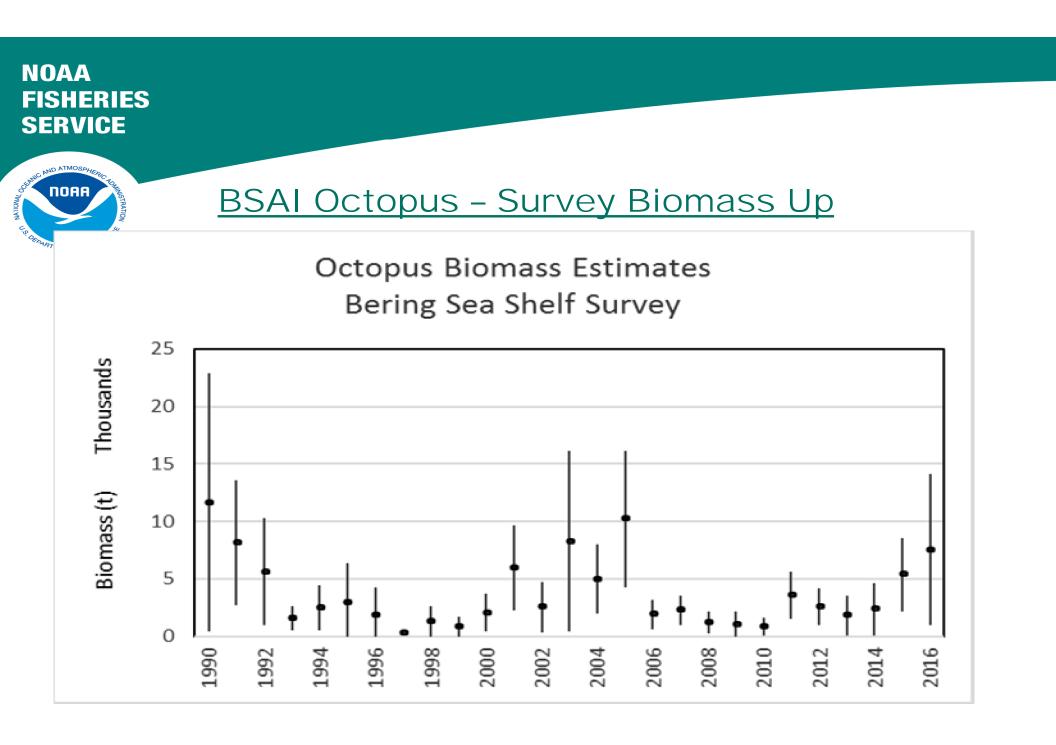


## BSAI Octopus 2016

M. Elizabeth Conners, Kerim Aydin, Christina Conrath Alaska Fisheries Science Center NOAA FISHERI SERVICI



- The 2016 survey biomass estimates from the EBS shelf survey, EBS slope survey, and AI survey were all at or near the highest observed; consistent with 2015 GOA survey. Steady upward trend in shelf survey index from 2013-2015.
- 2014 2016 Catch rates stable at ~ 430 t; retention only 17%
- Tier 6 alternative Consumption method updated (from 2011) with new Pacific cod stomach data through 2015. Recent increases in both cod numbers and percentage octopus in diet give increasing trend in annual consumption estimates 2009-2015.

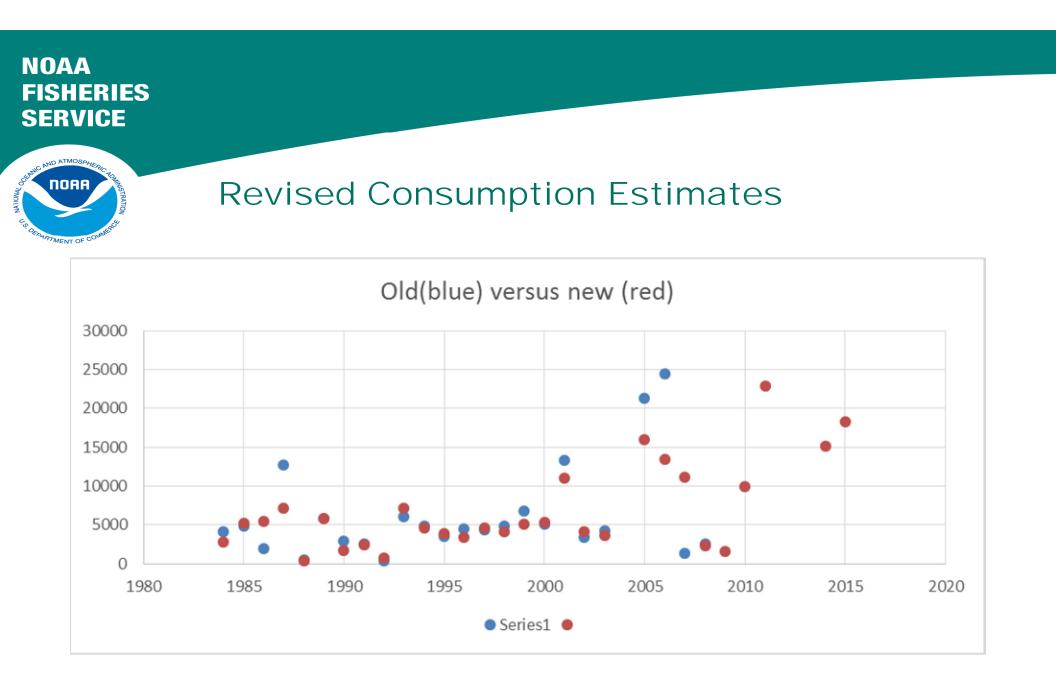


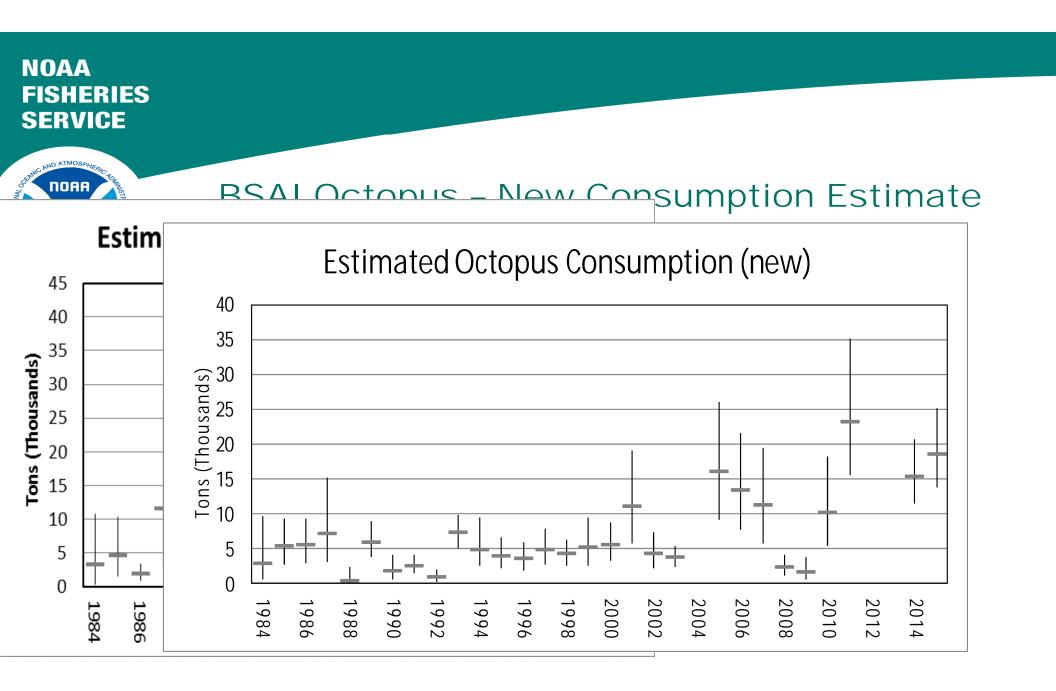
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# New Cod Stomach Samples

Year 1984 1985 1986 1987 1988 1989 1990 1990 1991 1992 1993 1994 1995 1996 1997 1998	Stomach Samples 636 952 1,338 747 551 1,662 1,121 1,546 1,876 2,303 2,381 2,395 1,314 1,155 1,262	Year 1999 2000 2001 2002 2003 2005 2006 2007 2008 2009 2010 2011 2014 2014 2015	Stomach Samples 1,049 1,101 1,304 1,334 1,334 1,770 <b>408</b> <b>671</b> <b>578</b> 1,204 <b>1,312</b> <b>1,169</b> <b>1,511</b> <b>1,617</b> <b>1,893</b>	2013 and 2013 Not yet processed
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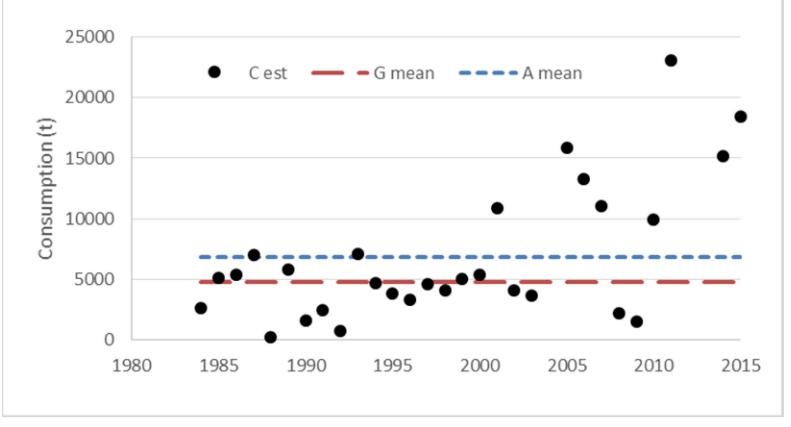
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### Consumption estimates – different averages

Averaging Annual Consumption Estimates





Survey Biomass estimate: shelf + slope + AI: **13,608 t** Brewer Biomass estimate (Unimak Pass area only): **20,697 t** Average Consumption estimate 1984-2015: 4,769 t

Recommended 2017/2018 OFL and ABC:

- **OFL 4,769 t** (increased from 2016 value of 3,425 t)
- **ABC 3,546** t (increase from 2016 value of 2,589 t)