Science, Service, Stewardship



Eastern Bering Sea Upper Continental Slope Bottom Trawl Survey of Groundfish and Invertebrate Resources



NOAA FISHERIES SERVICE

EBS Slope Survey Survey History

1976 - First limited survey of eastern Bering Sea slope

1979, 1981, 1982, 1985, 1988, 1991 –"Triennial" series

2000 – Pilot study of gear selection for new time series

2002 – First of new biennial slope survey time series

2004, 2008, 2010 – Continuation of biennial time series

*2006 skipped due to lack of funding

EBS Slope Survey Survey Standardization

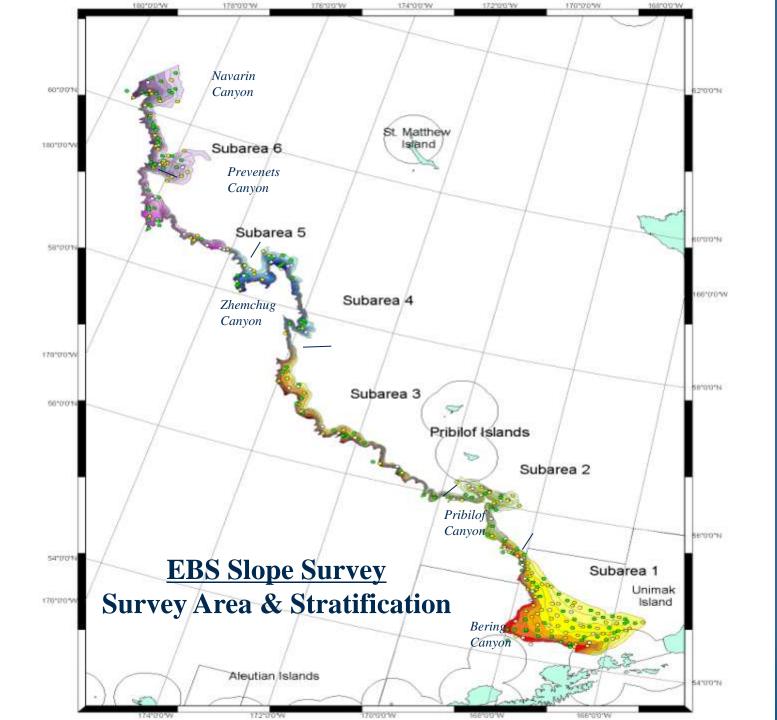
Stratified random stations by depth & area

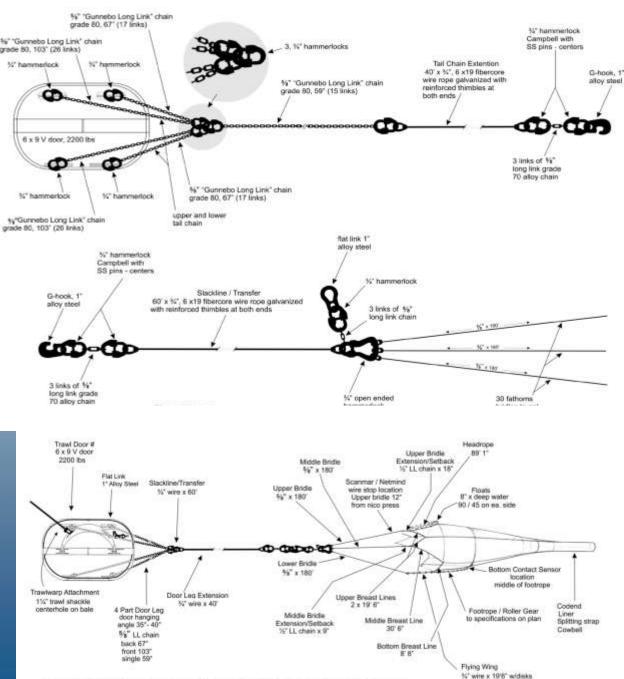
Subset of old and new stations are sampled

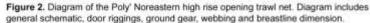
30 minute tows

2.5 knot towing speed

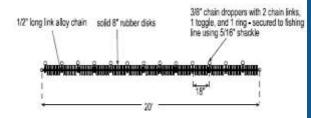
Trawl winch in dynamic mode





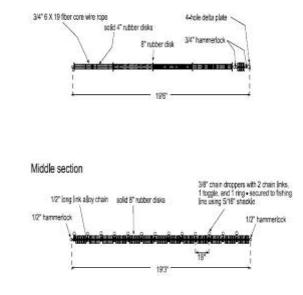


Inboard section



<u>EBS Slope Survey</u> Poly Nor'Eastern Net

Outboard section



EBS Slope Survey Net & Footrope







EBS Slope Survey Net Mensuration & Hardware



EBS Slope Survey Scales & Length Data Recorder



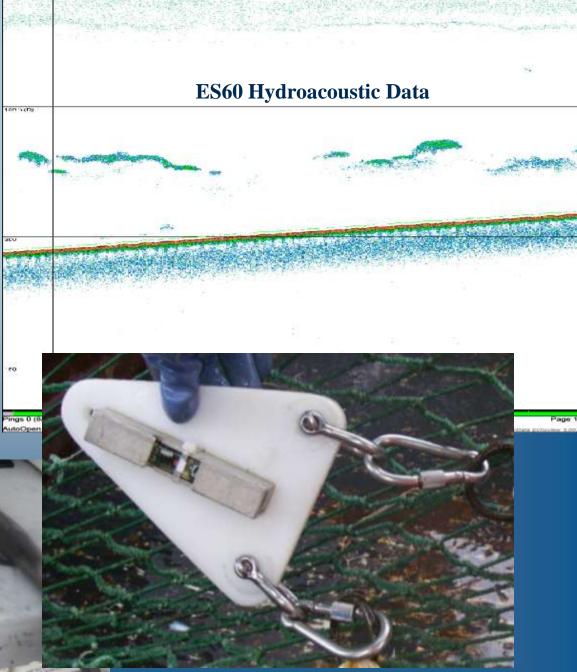




EBS Slope Survey Ancillary Research Projects







Light Irradiance

EBS Slope Survey Catch Processing



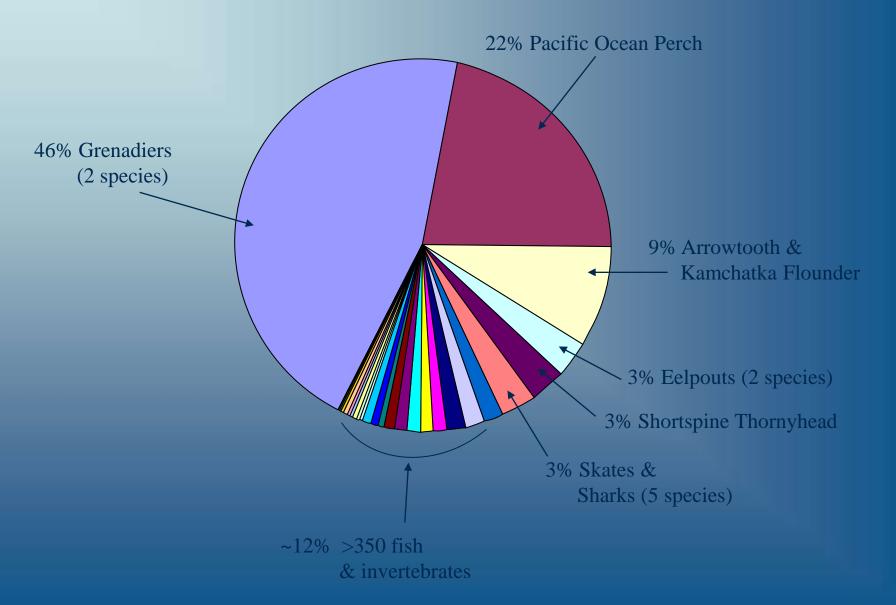


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NEW BRIDE

EBS Slope Survey Major Species

EBS Slope Survey Species Composition



EBS Slope Survey Excerpt From Data Report

Tables of population, biomass & cpue

Sexed length by upper and lower strata

Spatial distribution by cpue

Sebastes alutus

Depth strats

200-400

400-600

600-800

200-400

400-600

600-800

200-400

400-600

600-800

200-400

400-600

600-800

800-1.000 1,000-1,200

200-400

400-600

600-800

200-400

400-600

600-800

1-6

800-1,000

200-1.200

1 000-1 200

800-1.000

1.000-1.200

800-1,000

1.000-1.200

800-1 000

1.000-1.200

800-1,000

1,000-1,200

(mf)

2.32E+04

3 12E+02

0.00E+00

0.00E+00

0.00E+00

4.91E+04

1 72E+01

0.00E+00

0.00E+00

0.00E+00

3.87E+04

0 00E+00

0.00E+00

0.00E+00

0.00E+00

9.06E+04

8.87E+01

0.00E+00

0.00E+00

0.00E+00

8.81E+02

3.95E+00

0.00E+00

0.00E+00

0.00E+00

3 59E+02

8.96E+00

0.00E+00

0 00E+00

0 00E+00

2.03E+05

2.39E+0

3.98E+05

0.00E+00

0.00E+00

0.00E+00

4.99E+07

2 29E+04

0.00E+00

0.00E+00

0.00E+00

5.24E+07

0.00E+00

0.00E+00

0.00E+00

0.00E+00

1.06E+08

1.10E+05

0.00E+00

0.00E+00

0.00E+00

1.03E+06

6.98E+03

0.00E+00

0.00E+00

0.00E+00

7.68E+05

1.50E+04

0.00E+00

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0.00E+00

2.35E+08

0.00E+00

6.12E+09

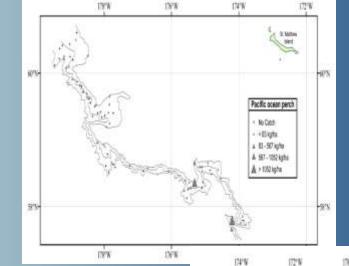
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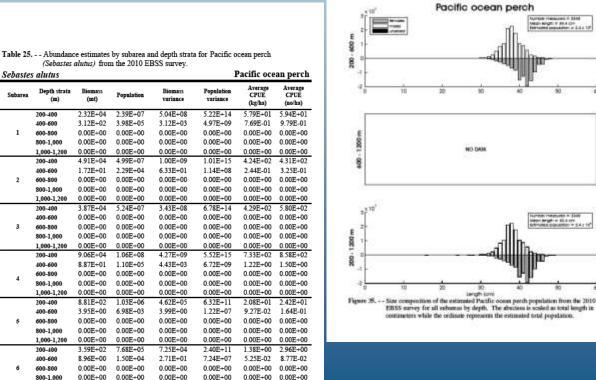
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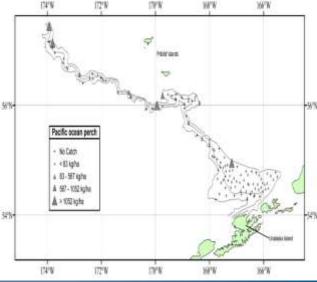
8.33E+01 9.83E+01

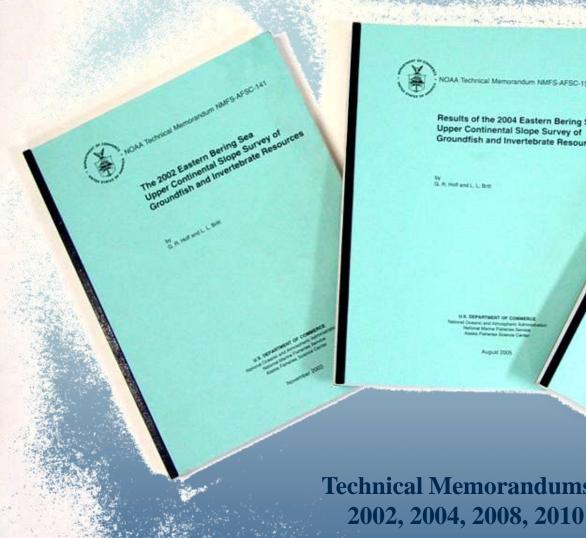
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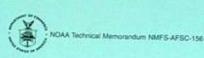


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Results of the 2004 Eastern Bering Sea Upper Continental Slope Survey of Groundfish and Invertebrate Resources

By G. R. Hulf and L. L. Britt

Jour 2001

Technical Memorandums 2002, 2004, 2008, 2010

EBS Slope Survey Data Report Series http://www.afsc.noaa.gov/Publications/

Results of the 2008 Eastern Bering Scoundfish and Invertebrate Resources

NOAA Protocols for Groundfish Bottom Trawl Surveys of the Nation's Fishery Resources

March 16, 2003

Gary Stauffer (Compiler)



U.S. Department of Commerce National Ocuanic and Amsospheric Administration National Marine Fishence Service

NOAA Technical Memorandum NMFS-SPO-65 October 2004

http://spo.nmfs.noaa.gov/tm/tm65.pdf

