Update on Alaska bathymetry: products for improving fisheries management

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Fig. 8. Acoustic volume backscatter strength ($S_v$, dB re 1 m$^{-1}$) from transects over the Zhemchug ridges showing (a) daytime and (b) nighttime volume backscatter in the water column from 40 m below surface to the seafloor. Data were collected using a calibrated 38 kHz Simrad ES-60 echosounder.

Suam Kim and Edmund P. Nunnallee*
Billion-Dollar Fish

The Untold Story of Alaska Pollock

Kevin M. Bailey

For us there's only one fish in the sea. Alaska pollock.
• 550,000 soundings from 94 smooth sheets
• 4,600 km of 8,300 km of shoreline
• 17,832 islands
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- 4,600 km of 8,300 km of shoreline
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Juvenile groundfish habitat modeling

Habitat suitability

Juvenile Pacific cod (Gadus macrocephalus)

Jodi Pirtle et al. “Habitat Suitability Models for Groundfish in the Gulf of Alaska”
Sean Rooney et al. “Model-based Essential Fish Habitat Definitions for Gulf of Alaska Groundfish Species
Future work

• Publish EBS, wGOA and eGOA bathymetry
• Revise Aleutian Islands (2017-2019)
• Arctic IBCAO (2018)
• Data gaps map for Alaska
• Acquire more commercial fisher data

http://www.afsc.noaa.gov/RACE/groundfish/bathymetry/