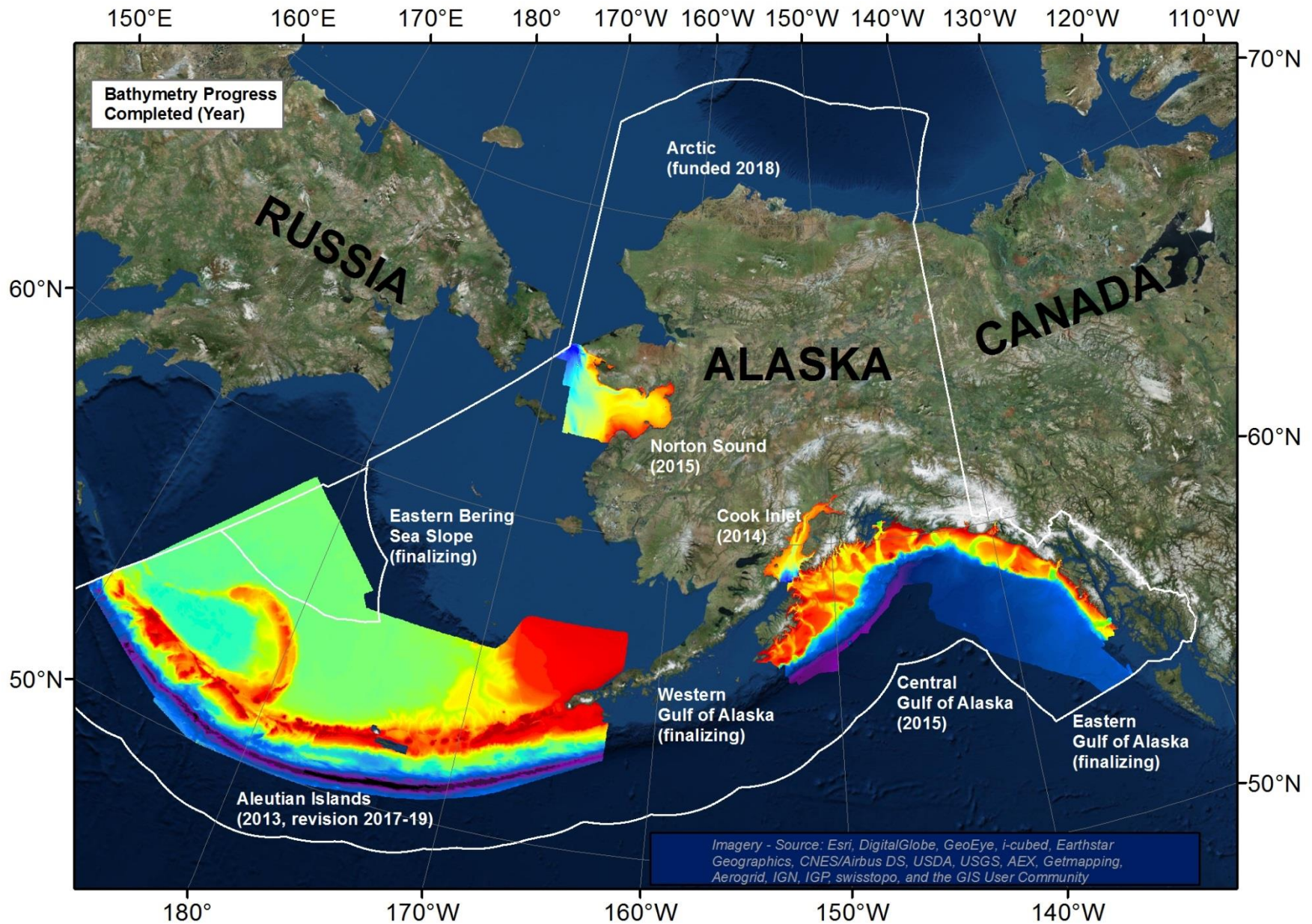


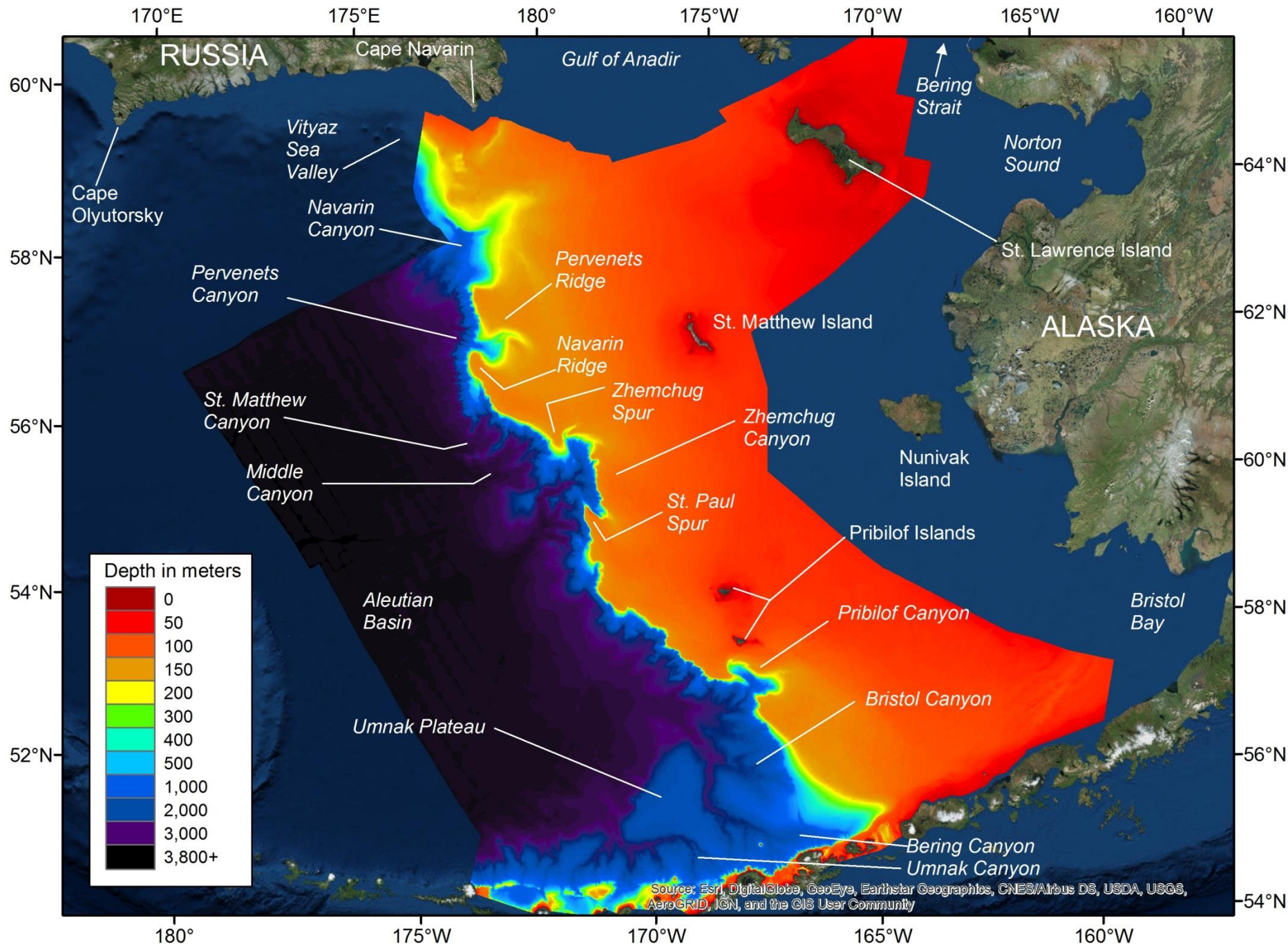
Update on Alaska bathymetry: products for improving fisheries management

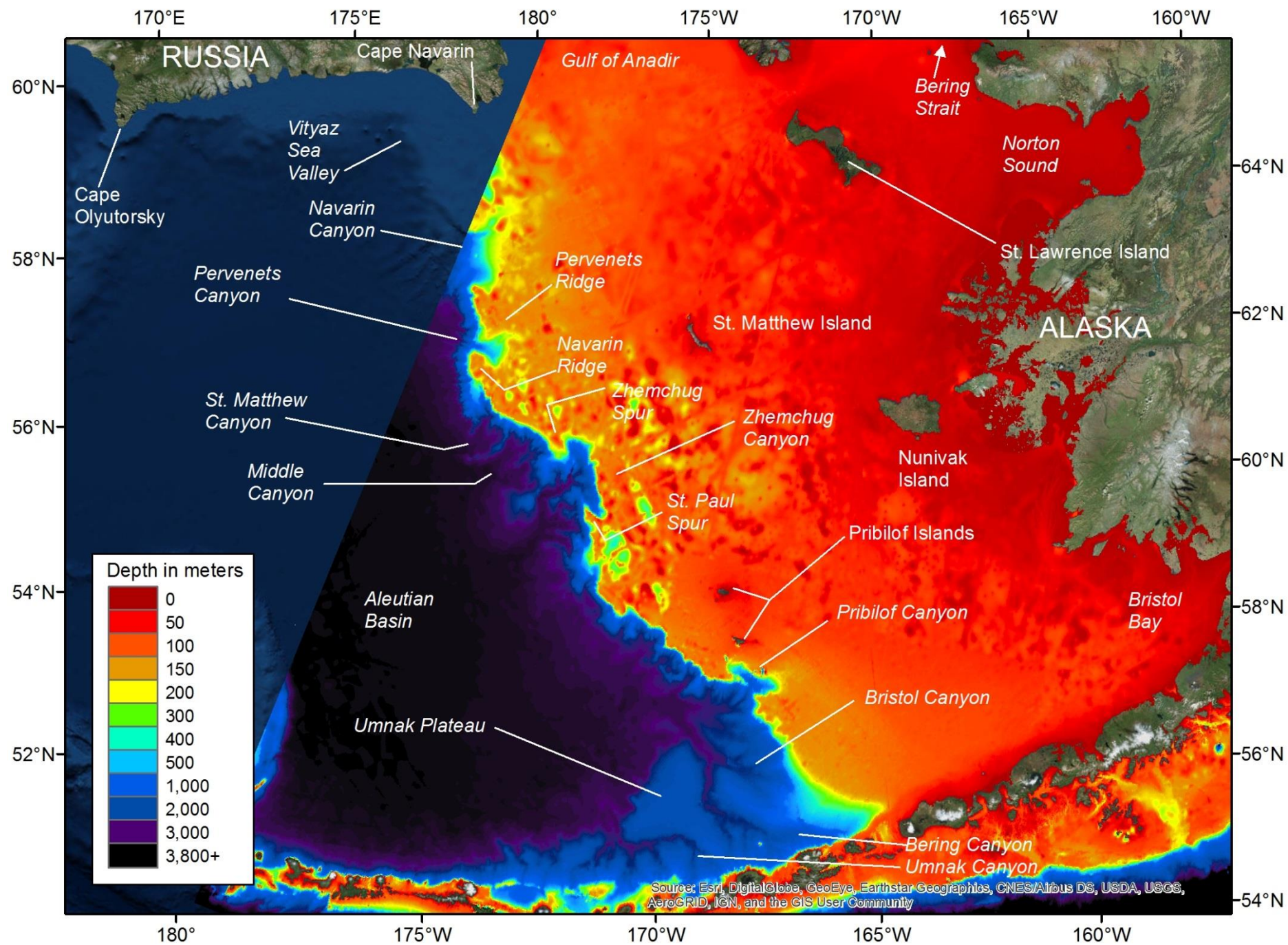
Mark Zimmermann – Fishery Biologist

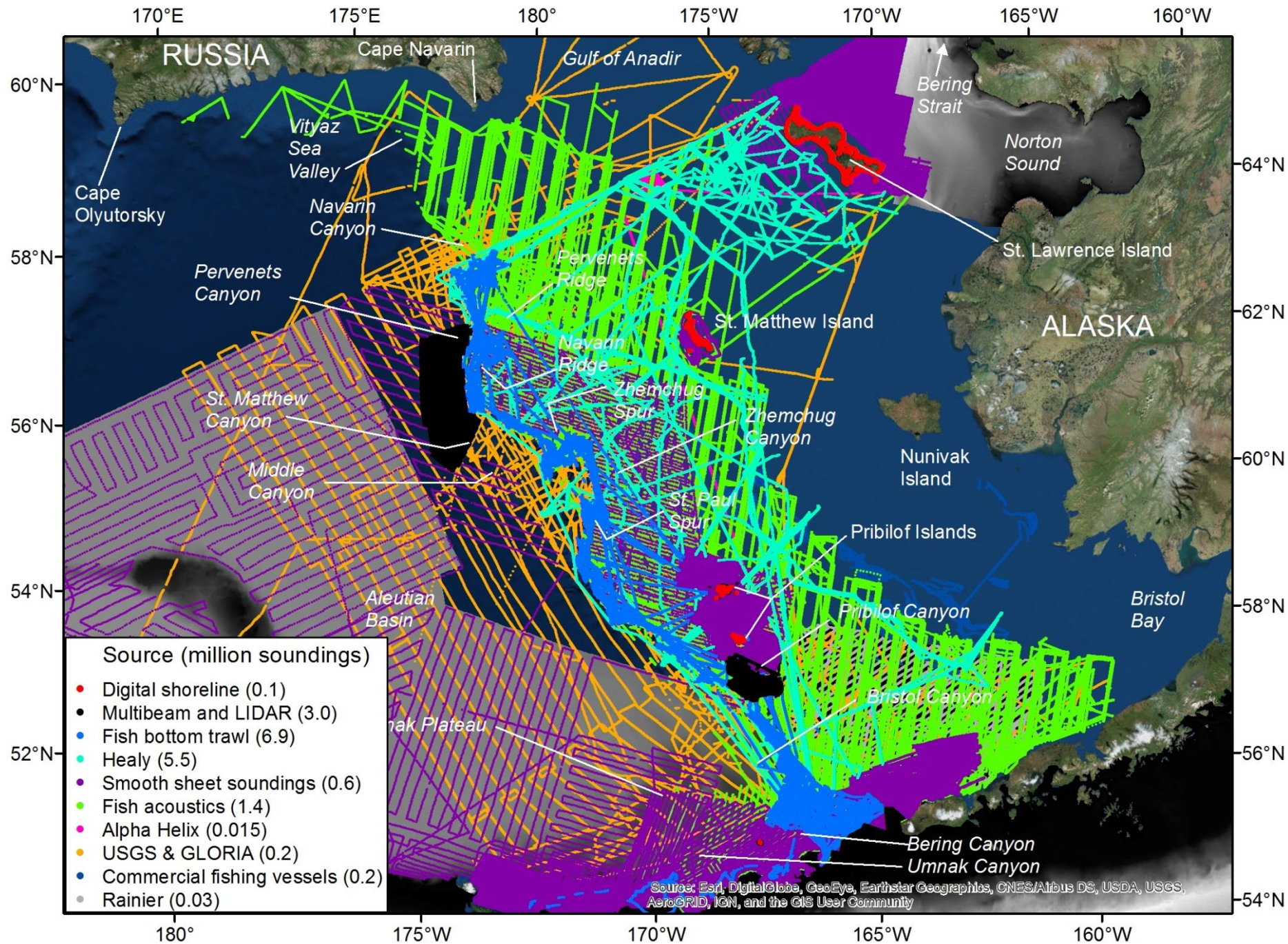
Megan Prescott – GIS Technician

**NATIONAL
MARINE
FISHERIES
SERVICE**







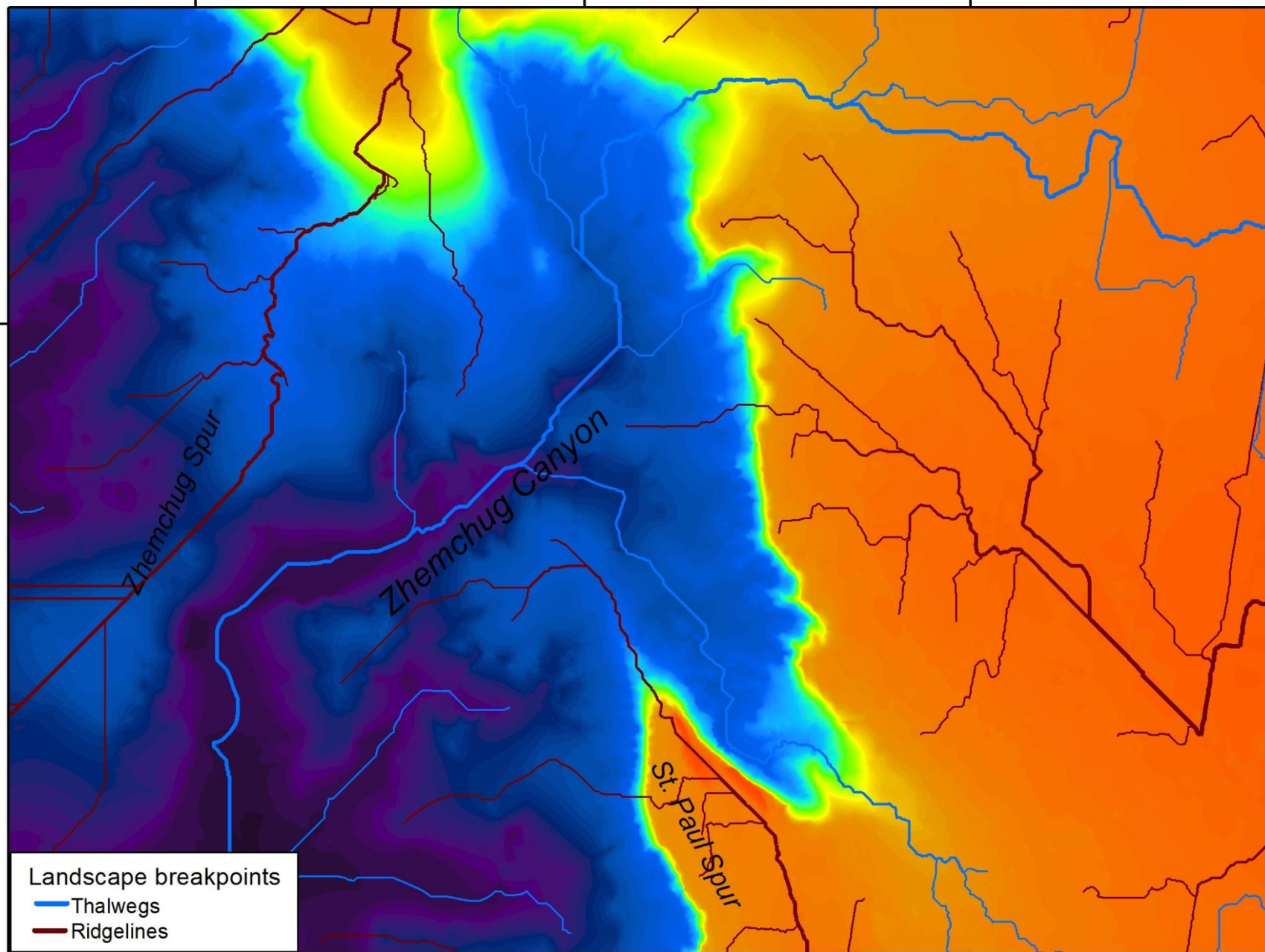


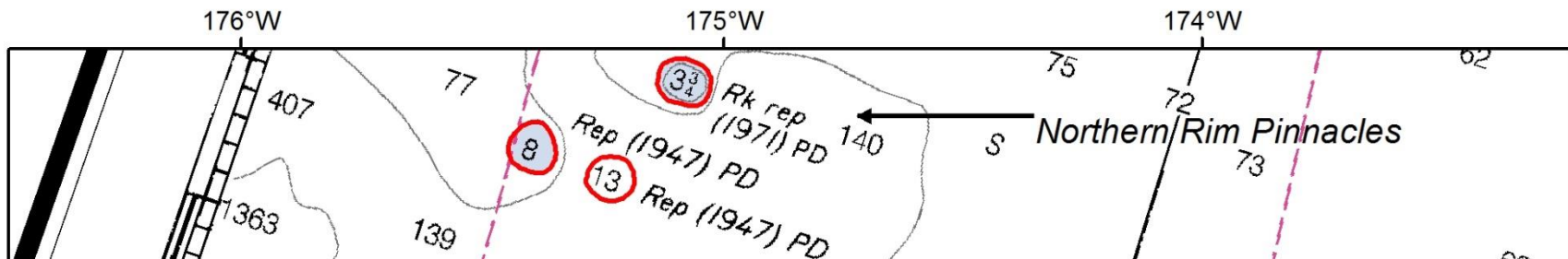
176°W

175°W

174°W

58°N





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SECTION IV

71

NOTICE TO MARINERS MARINE INFORMATION REPORT AND SUGGESTION SHEET

Observer QM3 ROLAND E. BART
 Ship's Name CGC JARVIS (WHEC-725) Master/Commanding Officer CAPT. B.F. HOLLINGSWORTH
 Mailing Address FPO SAN FRANCISCO, CALIF. 96601

Date of Observation 10 MAY 1974 Time of Observation (GMT) 1300Z

Position: Lat. 57°39.2'N Long. 173°24'W

Charts affected (Nationality) 16006 (USA) Ed. No. 23

Corrected thru N.M. 17 of 19 74 16011 25th ED 21-74
530 16th ED 20/74

Publication affected (Nationality) _____ Page No. _____

Corrected thru N.M. _____ of 19 _____

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0005 (X) Res

0427 (X) Pas

Lat

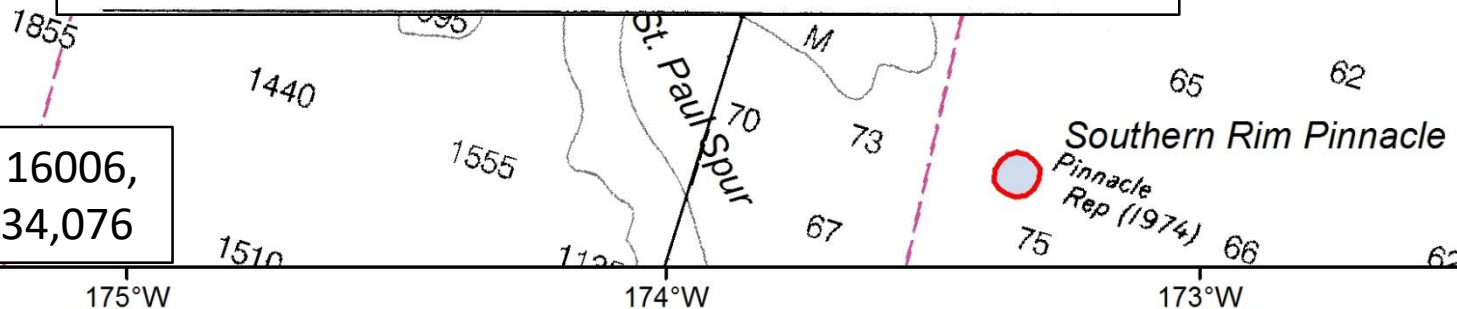
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NOS Chart 16006,
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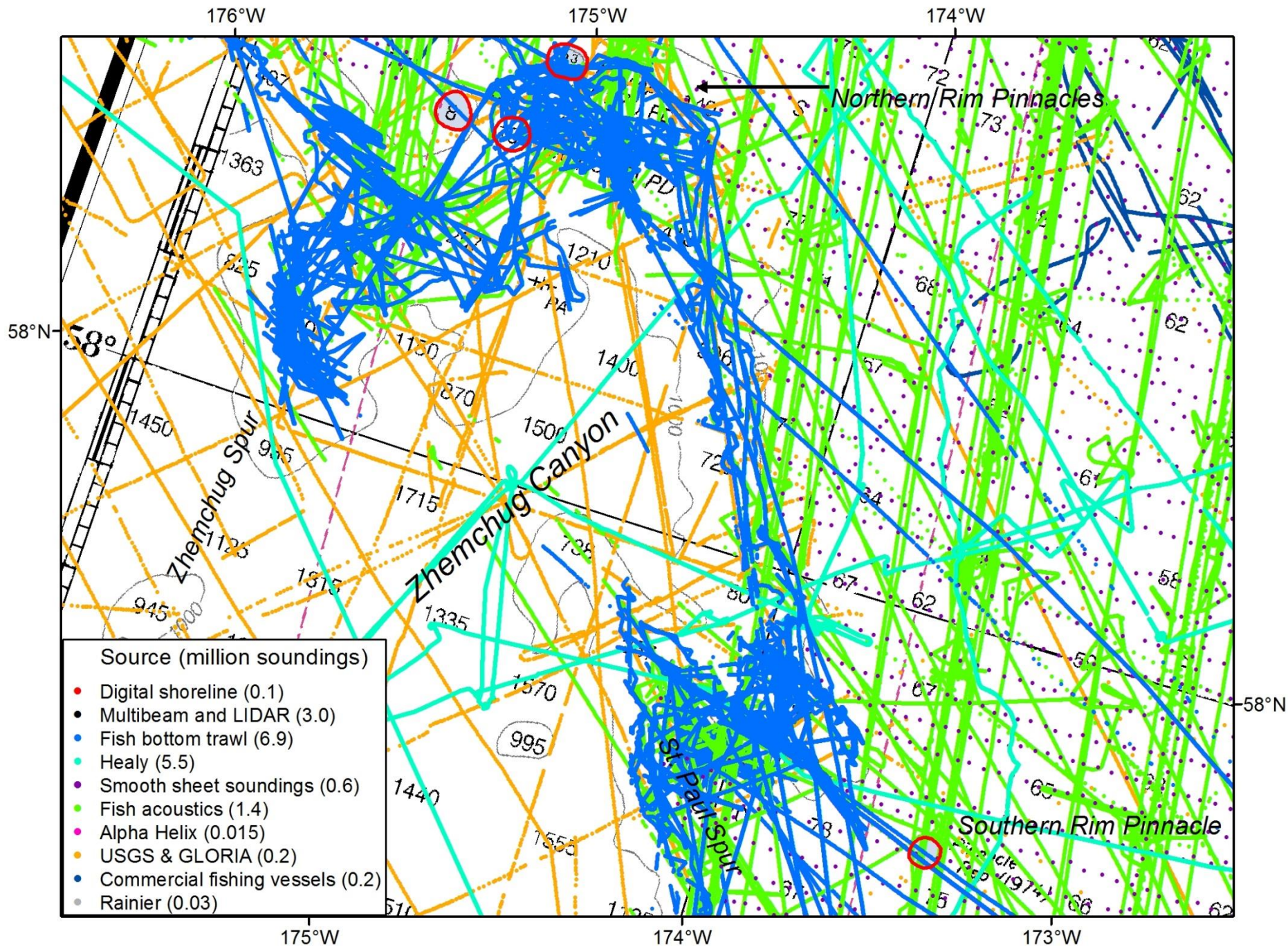
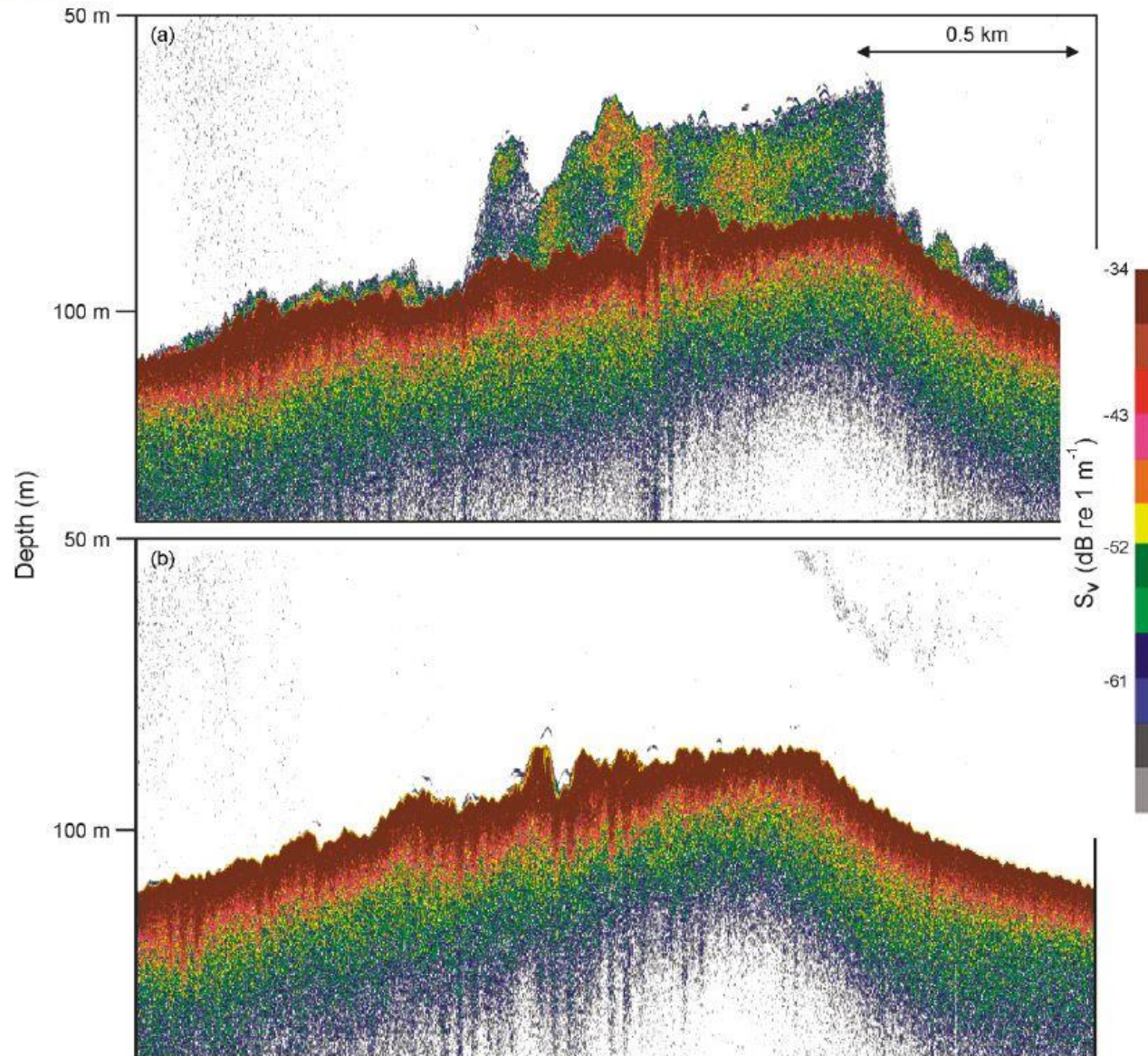
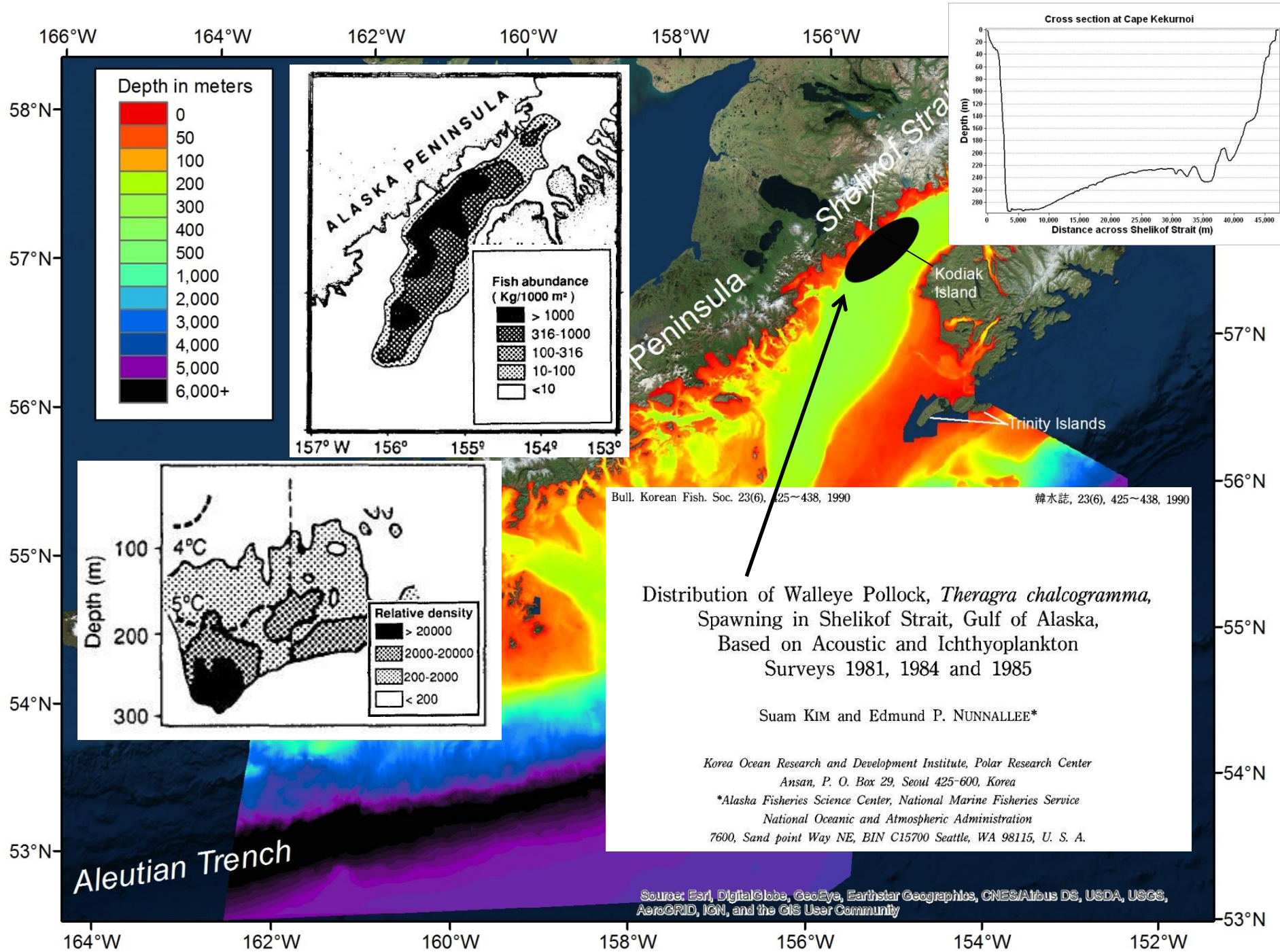


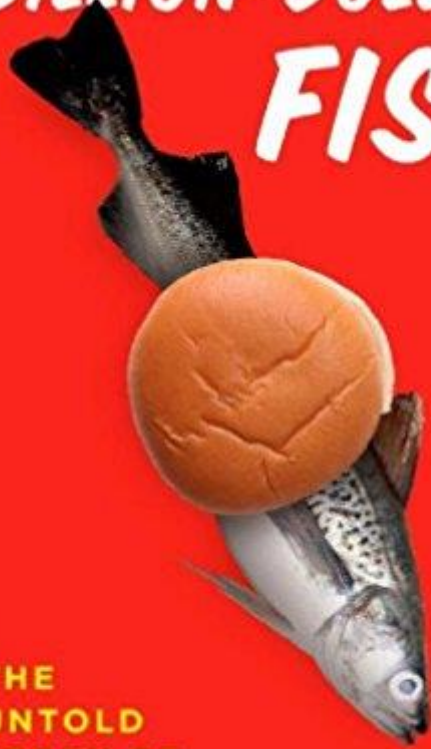
Fig. 8. Acoustic volume backscatter strength (S_v , dB re 1 m^{-1}) from transects over the Zhemchug ridges showing (a) daytime and (b) nighttime volume backscatter in the water column from 40 m below surface to the seafloor. Data were collected using a calibrated 38 kHz Simrad ES-60 echosounder.





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BILLION-DOLLAR FISH



THE
UNTOLD
STORY OF
ALASKA
POLLOCK

Kevin M. Bailey

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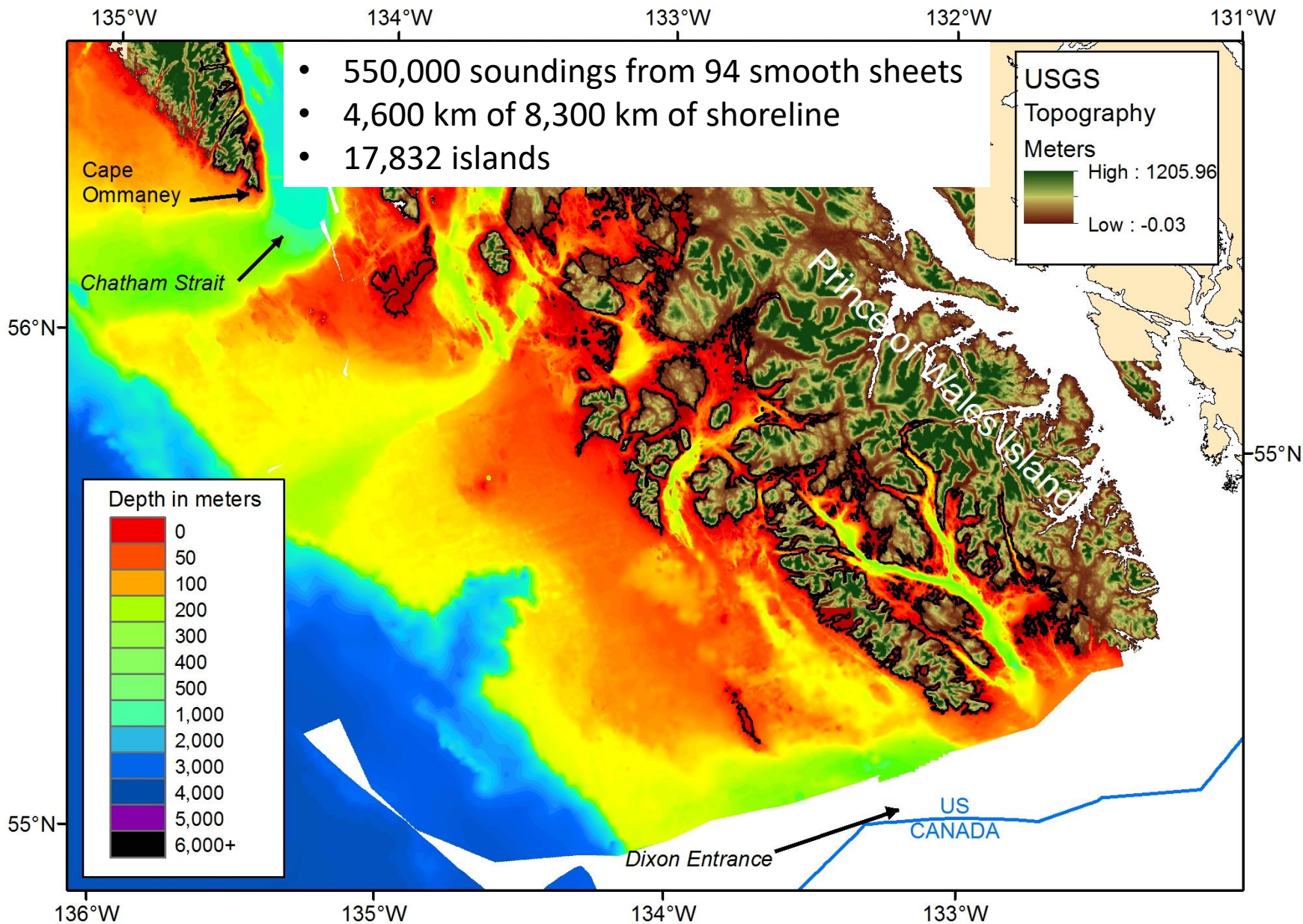
REAL WILD-CAUGHT
ALASKA POLLOCK

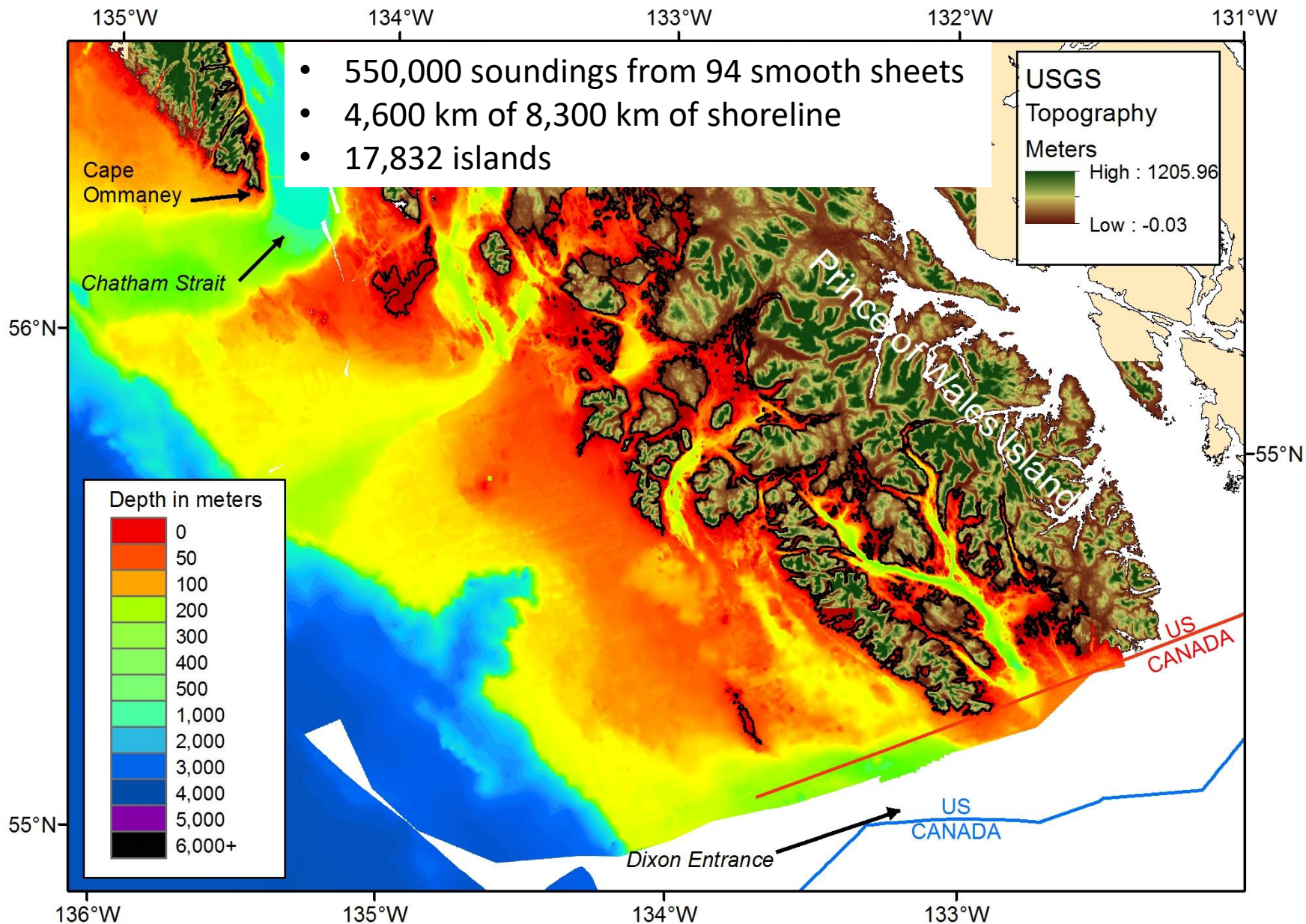


FOR US THERE'S
ONLY ONE FISH
IN THE SEA.

Alaska
pollock.



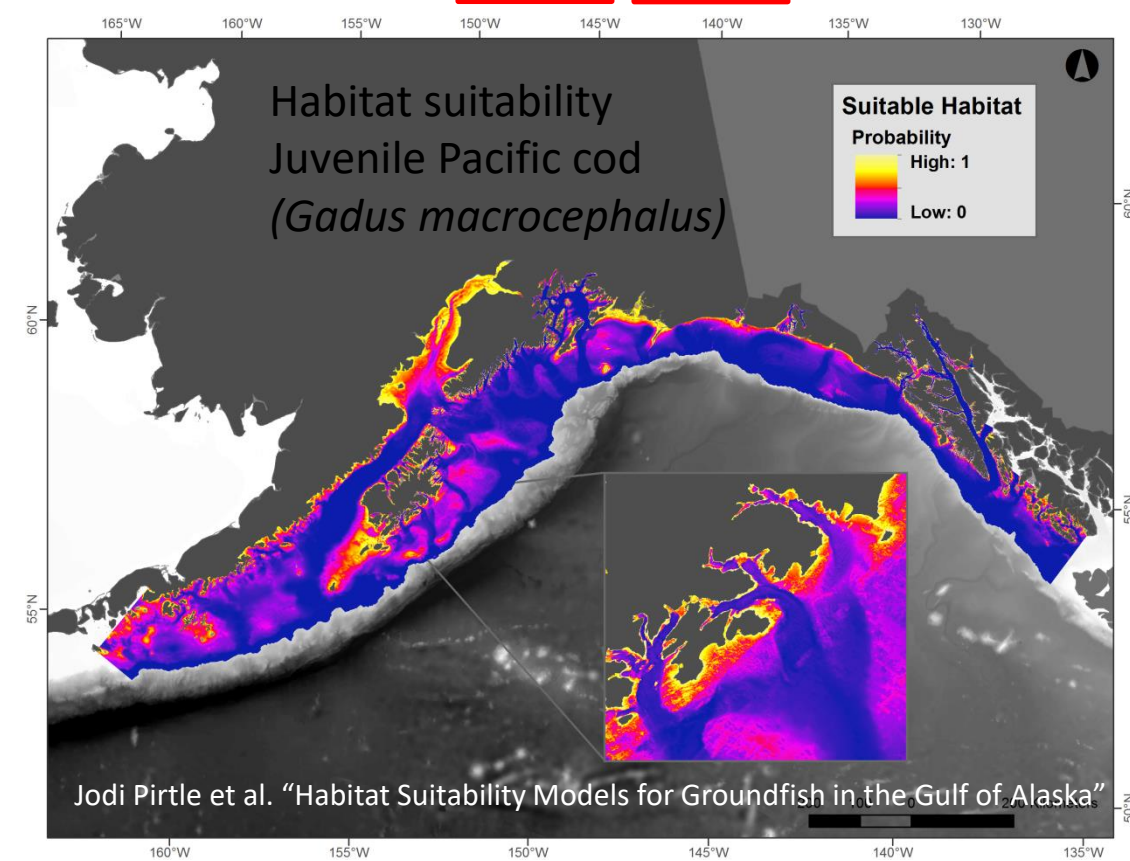




Juvenile groundfish habitat modeling



Species	Sample size	AUC Test mean $\pm$ SD	Variable-1 (%)	Variable-2 (%)	Variable-3 (%)	Variable-4 (%)
Sablefish						
HSM	758	0.71 $\pm$ 0.03	BPI-33 (47.1)	Depth (39.8)	Slope (6.9)	Eastness (2.3)
HSM with Substrate	579	0.73 $\pm$ 0.03	Depth (38.7)	BPI-65 (30.9)	Rockiness (19.9)	Slope (8.4)
Pacific cod						
HSM	284	0.87 $\pm$ 0.02	Depth (88.3)	BPI-17 (4.8)	Slope (3.4)	Curv. Pro. (2.4)
HSM with Substrate	112	0.90 $\pm$ 0.02	Depth (85.3)	Rockiness (7.2)	BPI-9 (2.6)	Northness (1.9)
Pollock						
HSM	1,696	0.70 $\pm$ 0.02	Depth (47.4)	BPI-33 (29.1)	Curv. Pro. (12.1)	Slope (5.8)
HSM with Substrate	812	0.73 $\pm$ 0.02	Depth (40.4)	BPI-65 (34.0)	Rockiness (15.2)	Slope (3.8)
Arrowtooth flounder						
HSM	1,668	0.72 $\pm$ 0.01	Depth (57.3)	BPI-33 (33.1)	Slope (5.2)	Curv. Pro. (1.9)
HSM with Substrate	1,052	0.74 $\pm$ 0.01	Depth (59.6)	BPI-65 (20.7)	Rockiness (16.3)	Eastness (1.5)
Pacific ocean perch						
HSM	1,449	0.76 $\pm$ 0.01	Depth (84.8)	BPI-65 (8.0)	Northness (2.3)	Curv. Pln. (1.6)
HSM with Substrate	997	0.74 $\pm$ 0.02	Depth (85.5)	BPI-65 (6.7)	Rockiness (4.3)	Northness (1.9)

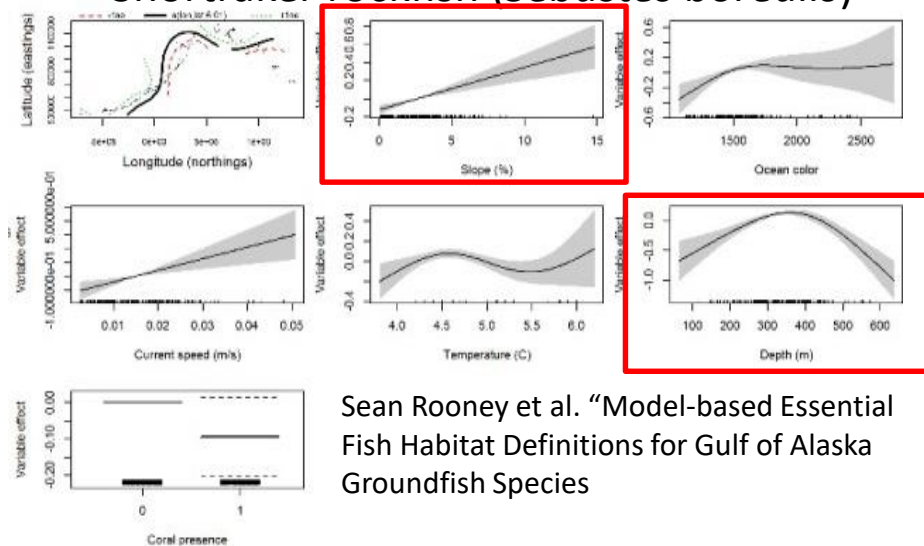




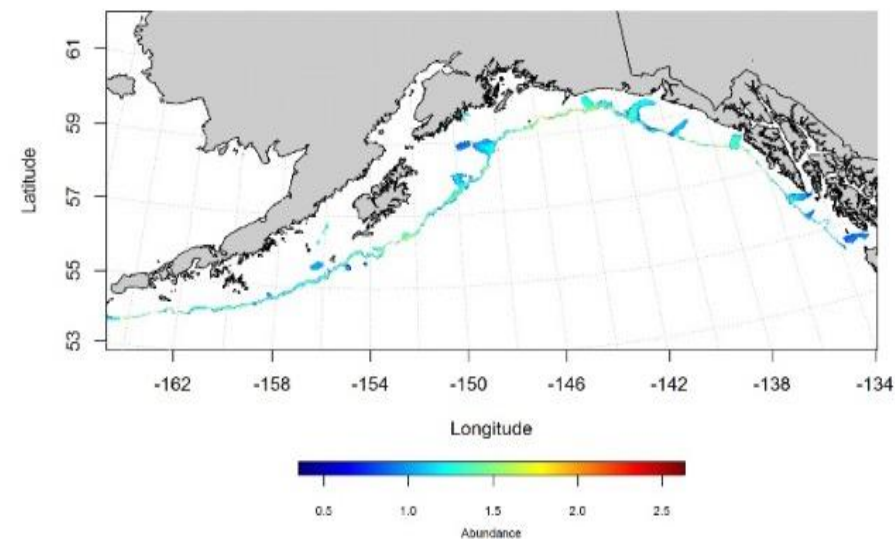
Habitat Protection
Reaches Milestone

ESSENTIAL FISH HABITAT

Shorttraker rockfish (*Sebastes borealis*)



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