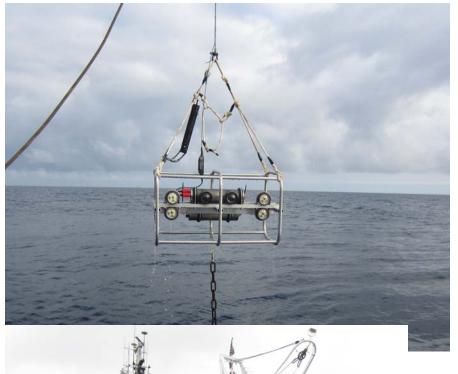


Alaska Fisheries Science Center

## Background and Timeline

- April 2012
  - NPFMC requested analysis of existing data on the eastern Bering Sea slope and canyons
- June 2013
  - AFSC presented results of the analysis
  - Included predictive coral model
- June 2013
  - NPFMC requests further analysis
  - NPFMC requests "groundtruthing" of coral model
- October 2013
  - Further analysis presented
  - Plans for summer fieldwork presented
- February 2014
  - EBS Canyons workshop

### 2014 fieldwork







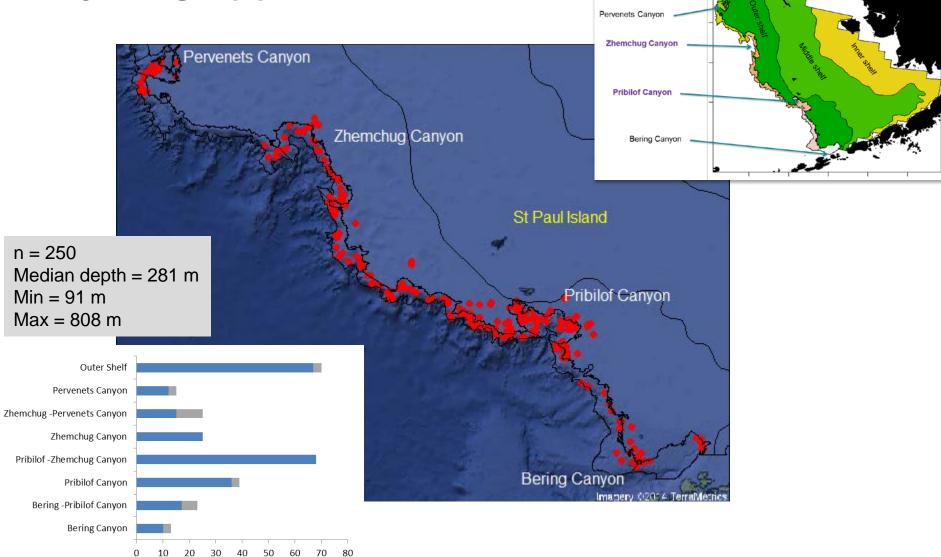
#### Stereo drop camera

15 minute tows

250 Randomly selected stations

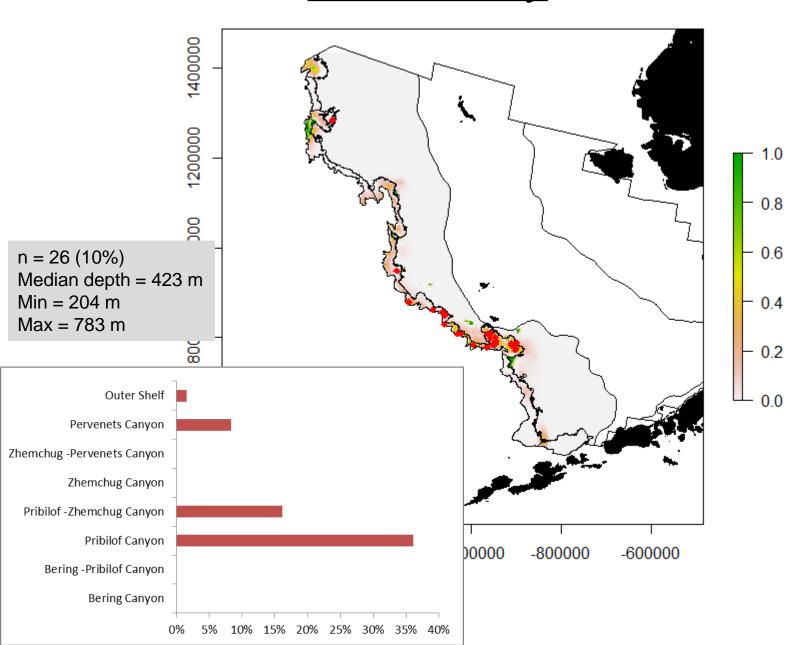
~225,000 paired seafloor images

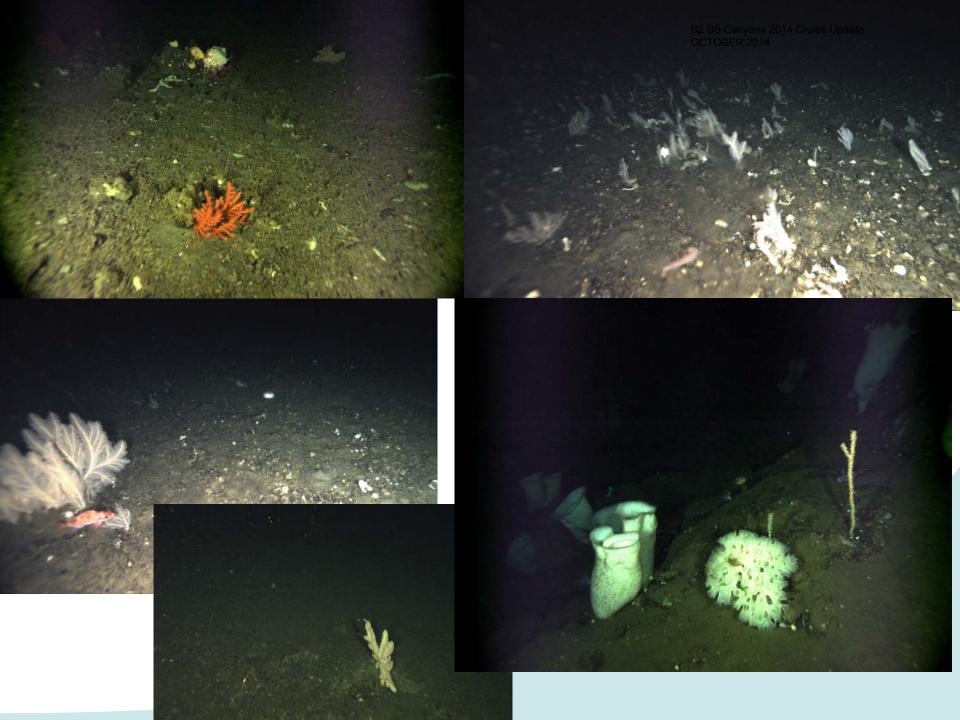
### 2014 Sites



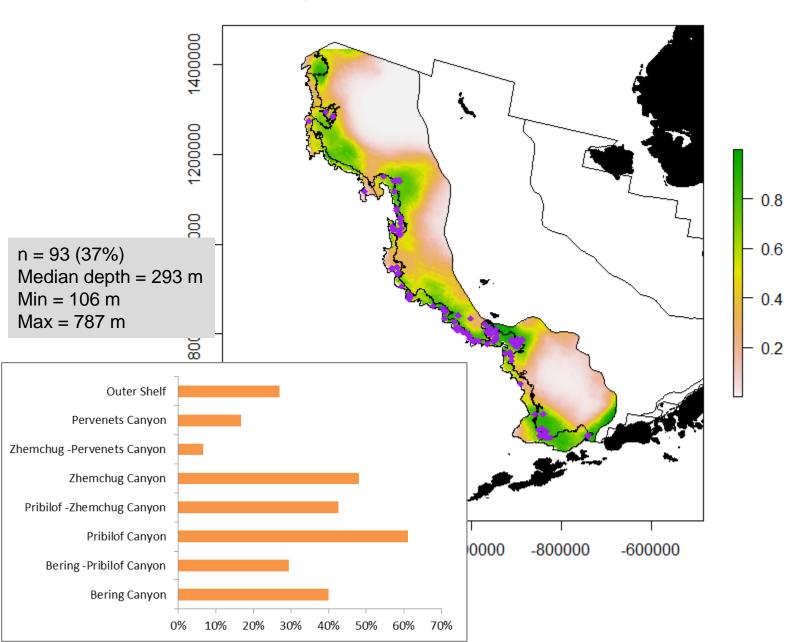
B2 B\$ Canyons 2014 Cruise Update OCTOBER 2014 Russia Border

Navarin Canyon



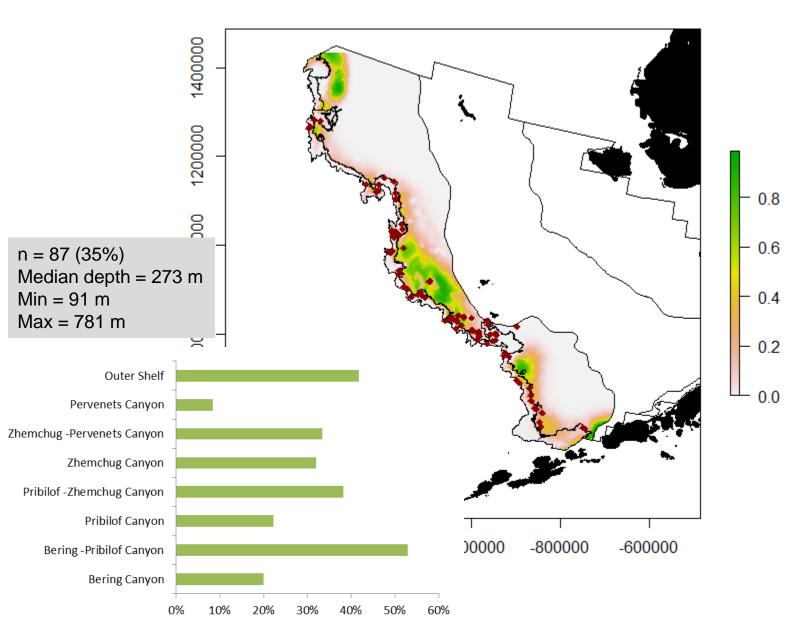


# Sponge Preliminary Results



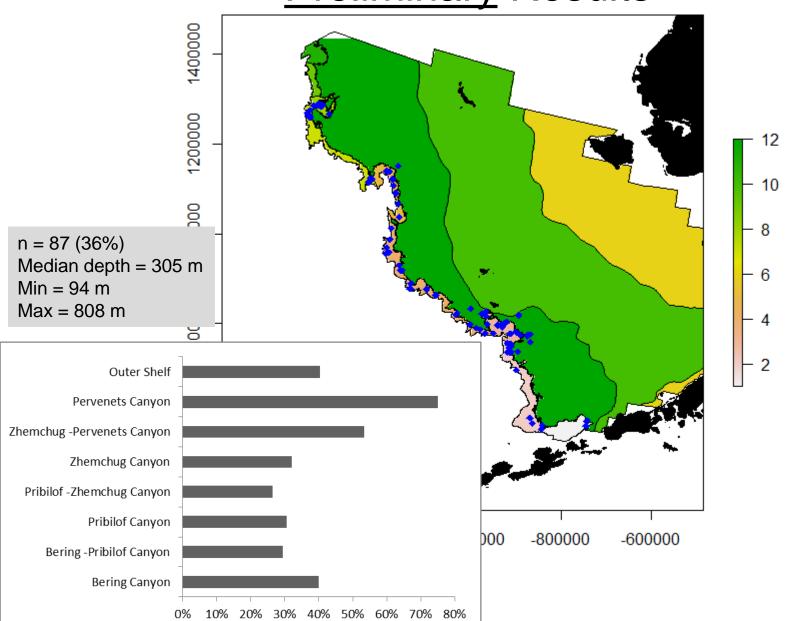


# Sea Whips Preliminary Results





No Coral, Sponge, Sea White Party Cruise Update Preliminary Results





## Preliminary Conclusions 2014 Cruise Update

- Coral occurrence was low throughout
  - Concentrated around Pribilof Canyon and to the northwest
  - Consistent with model results and other data (trawl, observer)
  - Densities were low even where they occurred
- Sponge & Sea Whips distributed more broadly
  - Consistent with model results and other data
  - Sponge densities were generally low
  - Sea whip densities were high in some locations (mostly shallower than 200 m)
- Other invertebrates = Anemones, Sea Cucumbers
- Dominant fishes = POP, Grenadier, Pollock, ATF, Flatfish, Sculpins

### **Next Steps**

- Image Analysis Plan
  - View all individual frames
  - Identify, count and measure all fish species
  - Identify, count and measure all coral, sponge and seawhips
  - Identify and count other invertebrate species
- Calculate density of invertebrates
- Compare model predictions to observations (presence and density)
- Revisit modeling if necessary

### **Completion by June 2015**



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