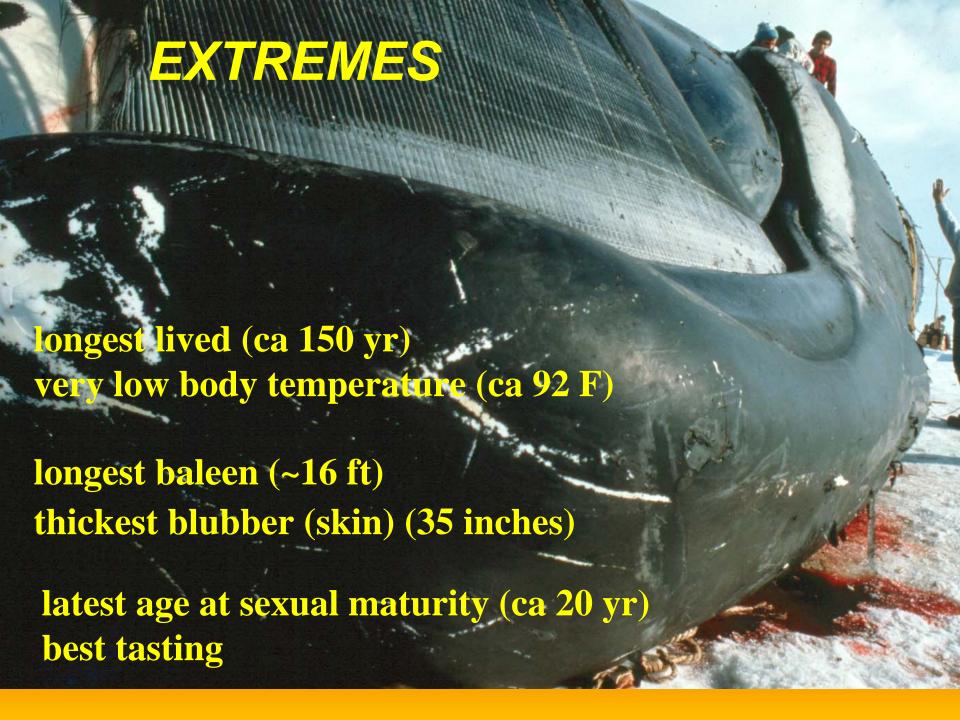
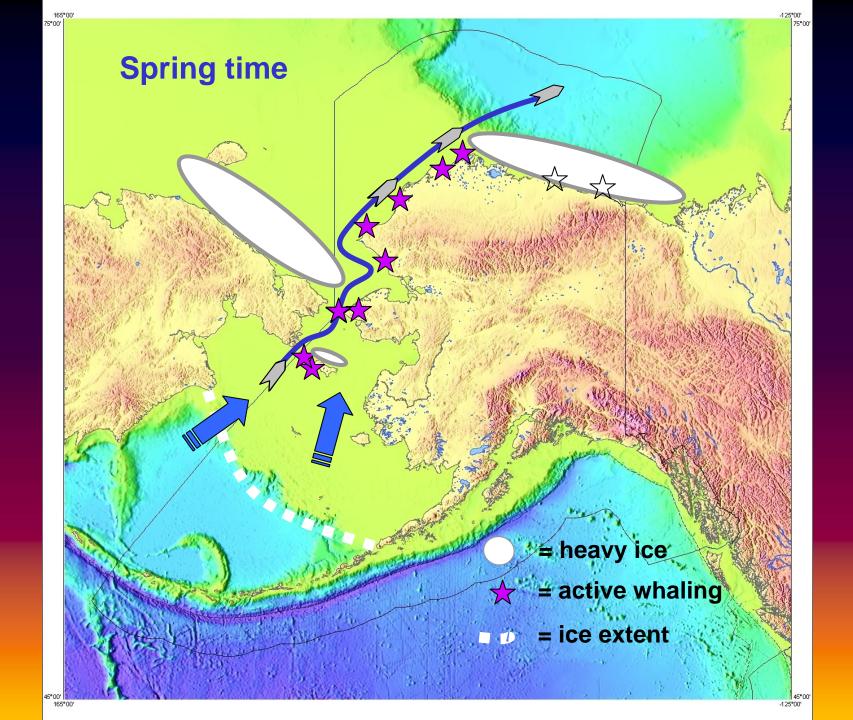
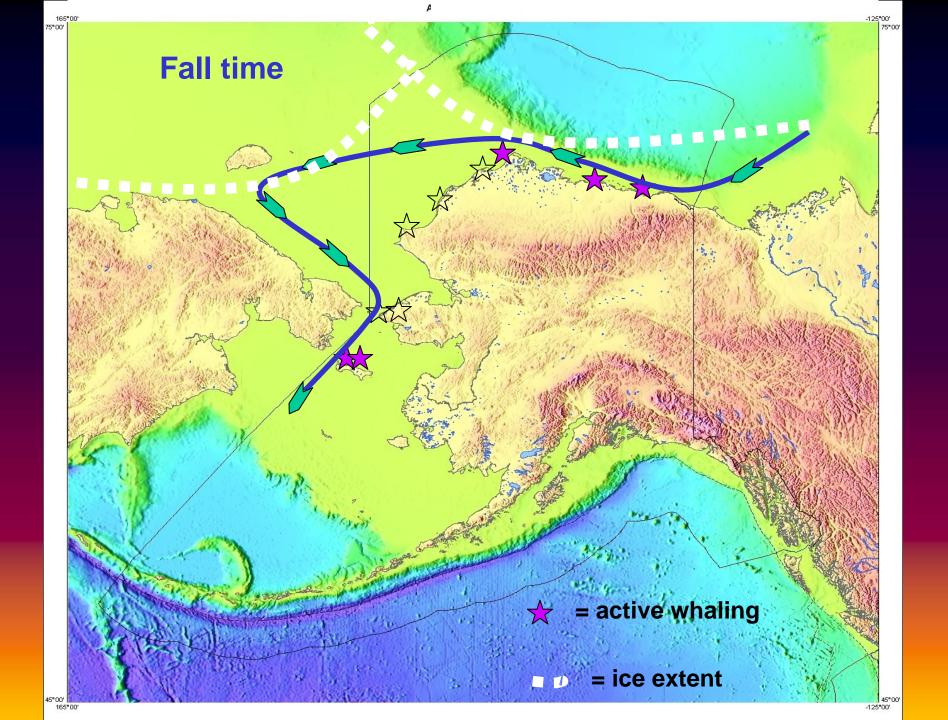
### SAVOONGA

### SCIENCE and TEK

Arctic Coastal & Marine
Spatial Planning
The Role of the Arctic People
March 11, 2010







# Traditional Knowledge of the Bowhead Whale (*Balaena mysticetus*) around Saint Lawrence Island, Alaska

George Noongwook<sup>1</sup>, Henry P. Huntington<sup>2</sup>, and John C. George<sup>3</sup>

- 1. Alaska Eskimo Whaling Commission and Native Village of Savoonga, P.O. Box 81 Savoonga, AK 99769, USA
- 2. 23834 The Clearing Dr., Eagle River, AK 99577, USA
- 3. North Slope Borough Department of Wildlife Management, P.O. Box 69, Barrow, AK 99723, USA

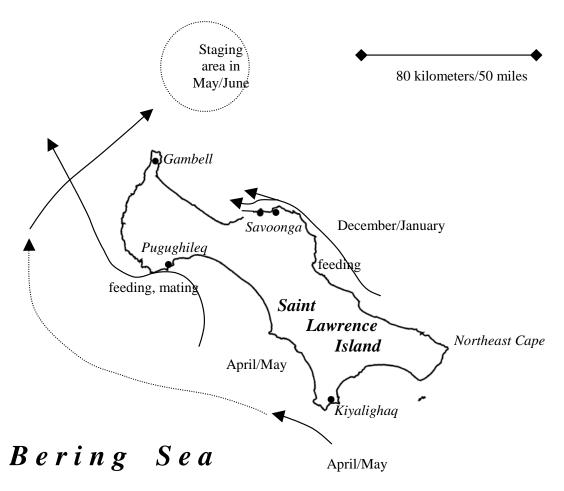




#### **TEK surveys indicated:**

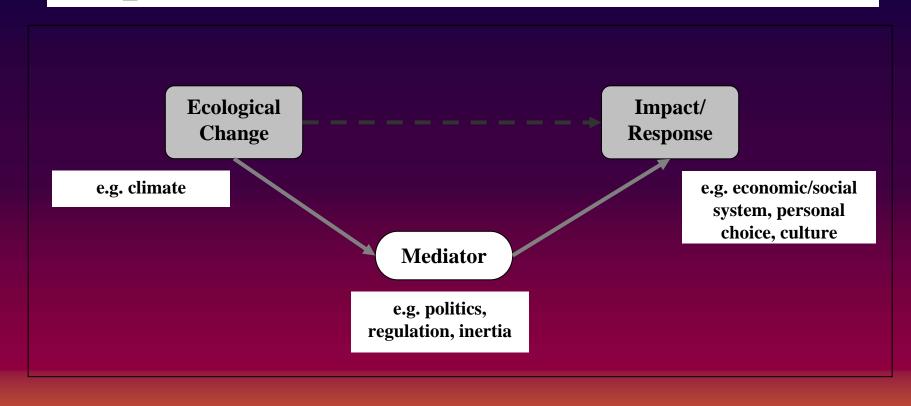
- 2 migratory routes near SLI recognized
- Changes in abundance and distribution over time (increasing population, fall sightings)
- Most whales migrate west of SLI in spring and fall
- Identified feeding area east of Savoonga
- Increasing numbers of "ingutuks" or subadults
- Identified "staging area" north of SLI

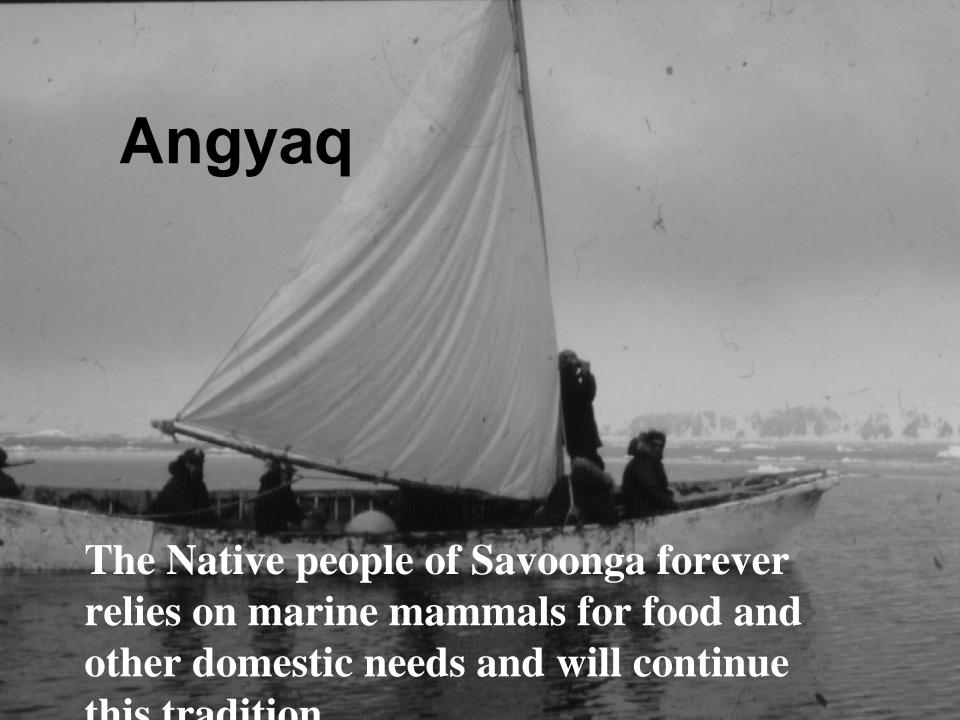






# **Mechanism Connecting Change to Impact**

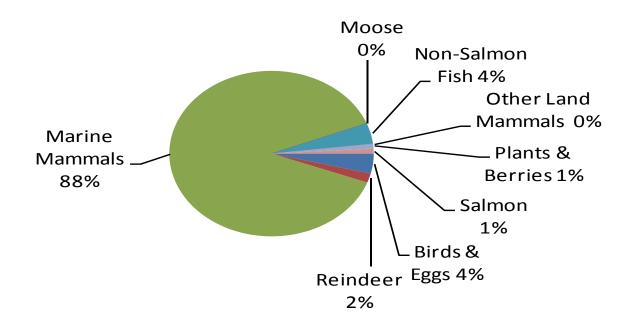


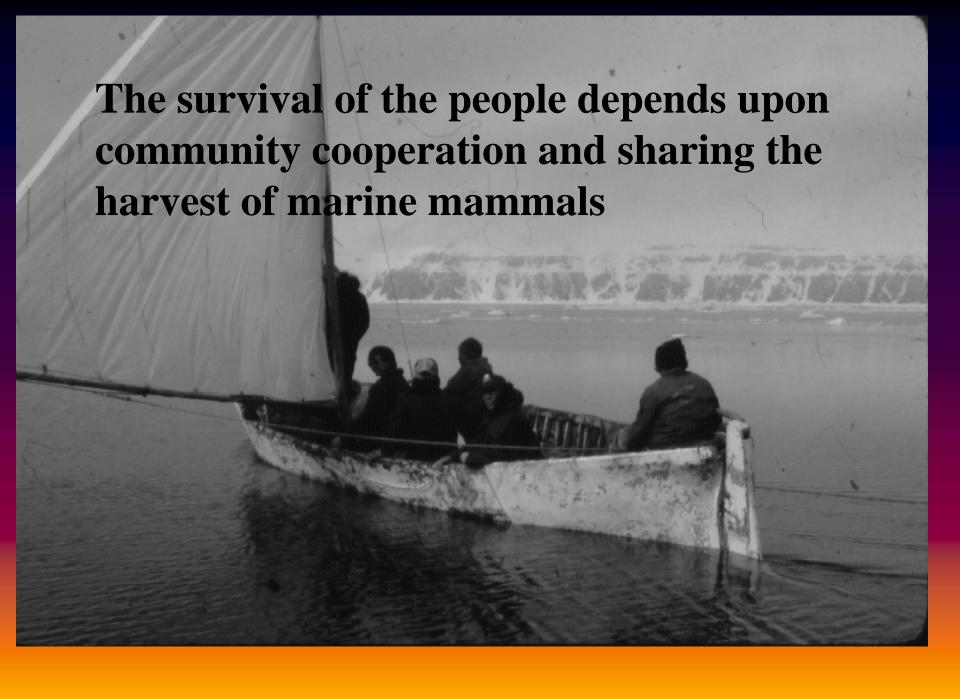


### 2005-2006 Resource Harvest Percentages

avoonga

Savoonga







Hauling up a bowhead whale using a block and tackle.



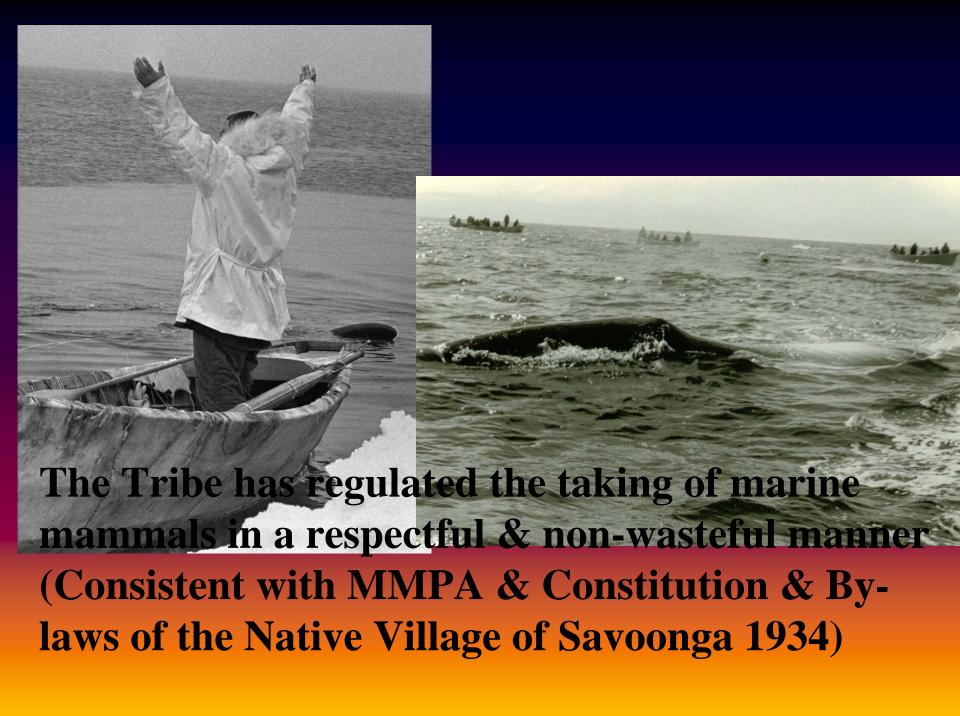
## THREATS TO MARINE MAMMALS

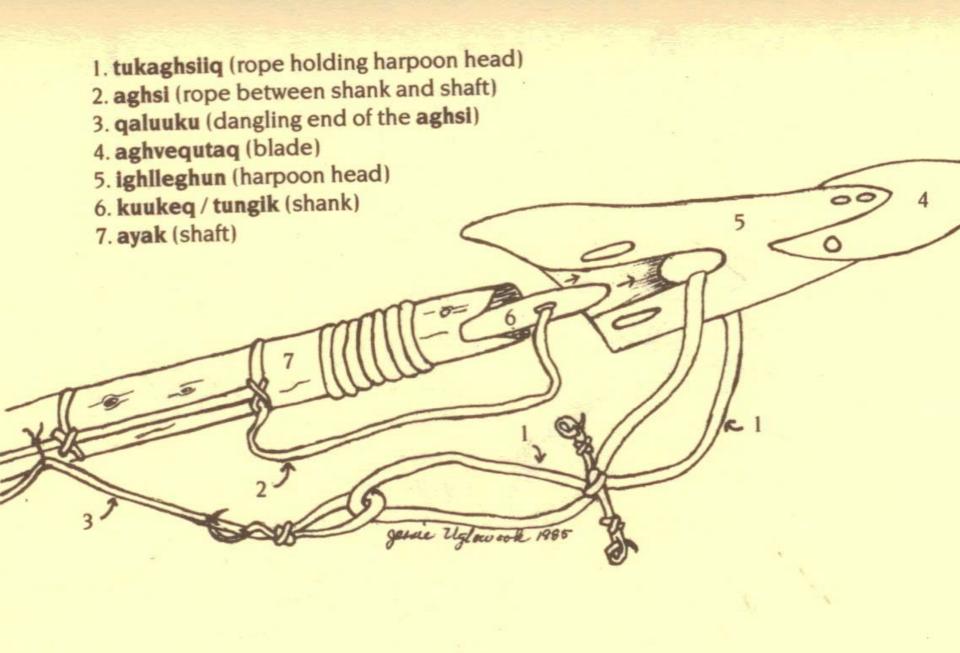
- Fishing / Shipping / Tour ship Industry
- Ship Strikes
- Entanglements

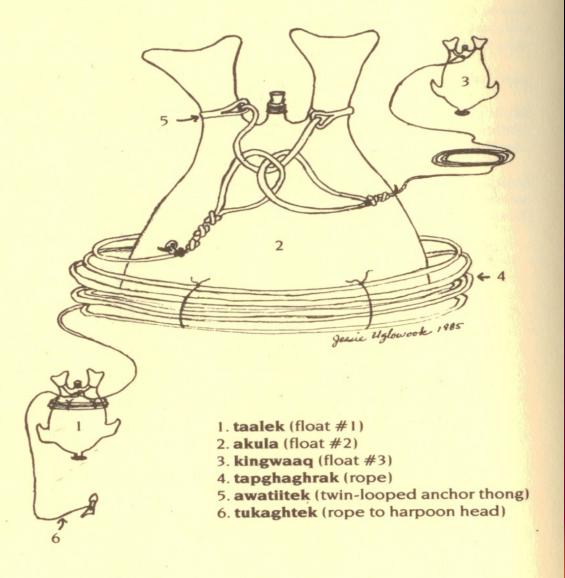


- Resource Development
- Oil Spills
- Killer Whale predation
- Disease

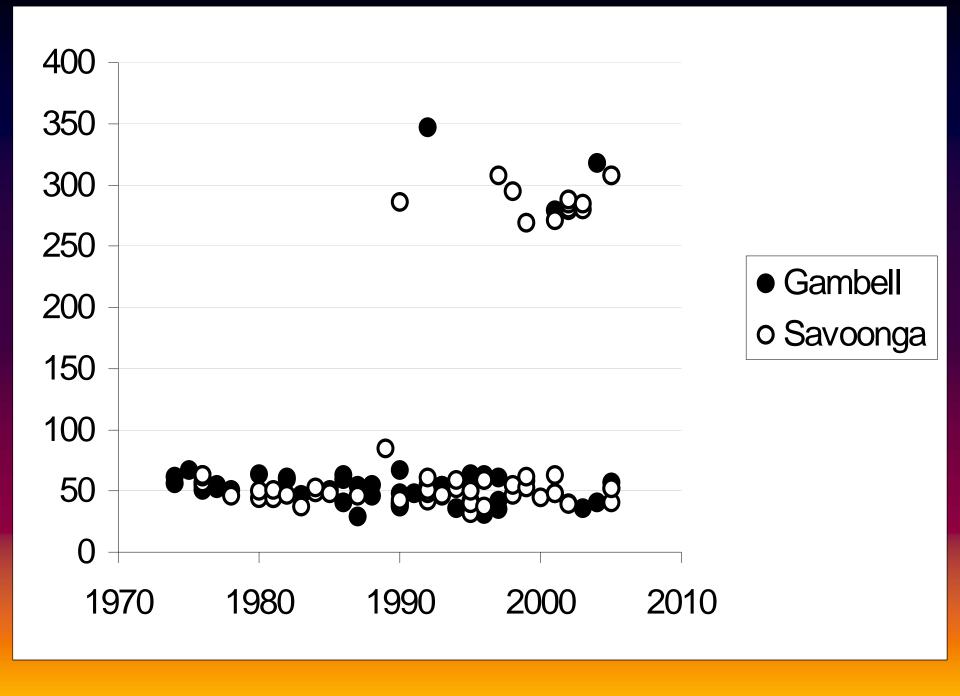


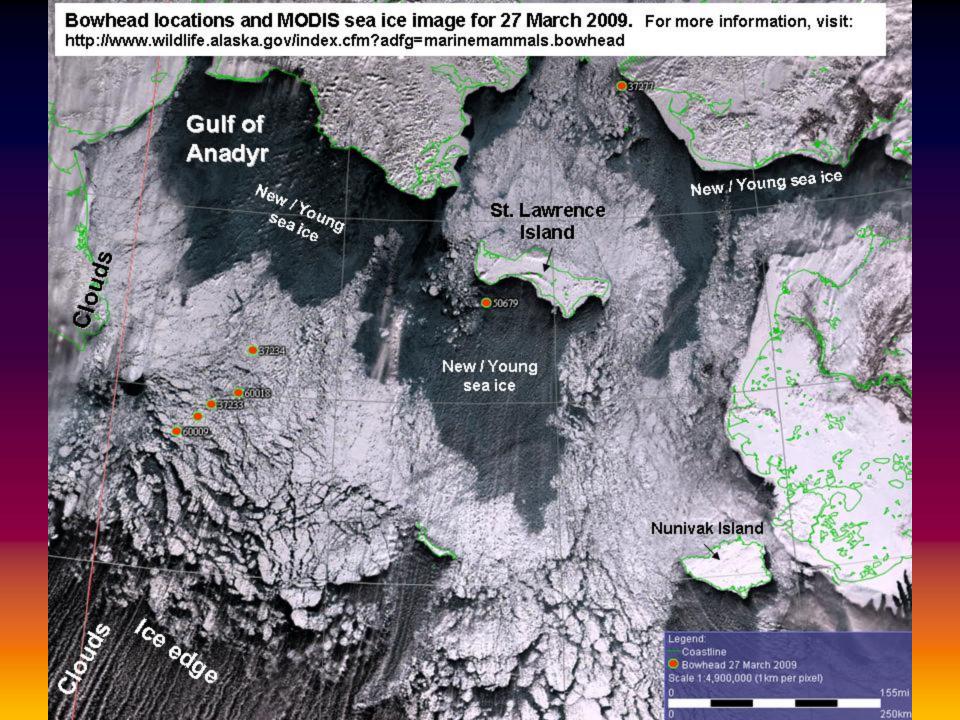












#### **ACKNOWLEDGMENTS**

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- Savoonga Whaling Captains Association
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- Zeh, University of Washington
- Givens, Colorado State University
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- ADF&G, Lori Quakenbush, Gay Sheffield, et.al.
- University of Alaska
- Bickham, Texas A&M
- BP and Conoco-Phillips

