

NOAAFISHERIES

Alaska
Fisheries
Science Center
Auke Bay
Laboratories
Juneau, Alaska

Joint Program of Scientific Research and Monitoring Central Arctic Ocean and Adjacent Seas JPSRM

Phillip R. Mundy (NOAA) phil.mundy@noaa.gov

Sustained Arctic Observing Network (SAON)

March 14, 2016

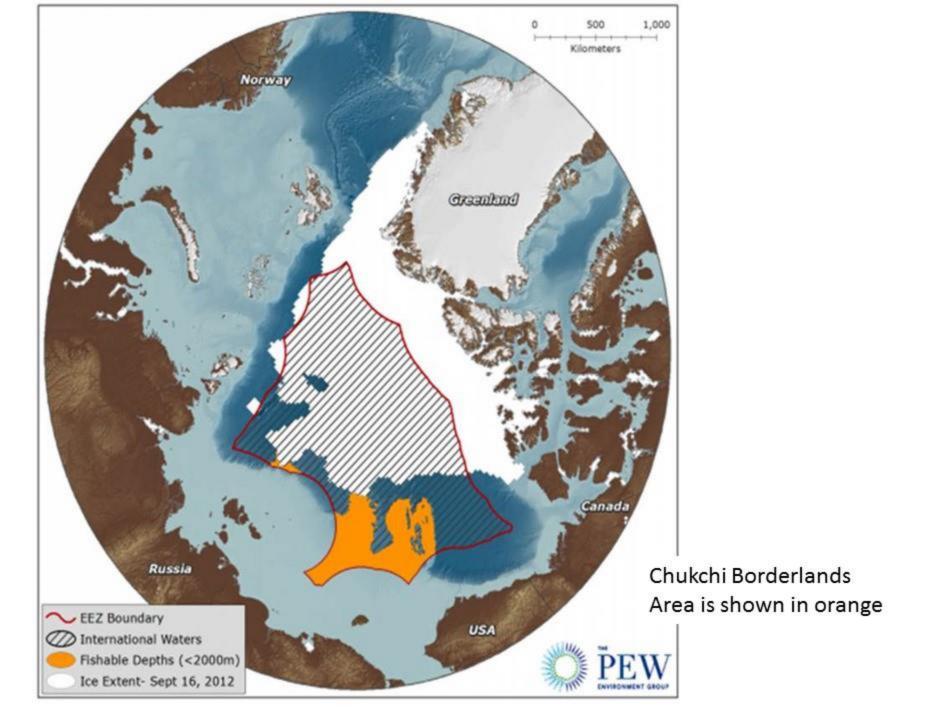
Arctic Science Summit Week

University of Alaska Fairbanks

Fairbanks Alaska USA

Developing international cooperation to collect the information necessary to support international fisheries negotiations in the central Arctic Ocean

- No one nation has the capabilities to conduct quantitative Arctic fish stock biomass estimation
- Arctic fish stock biomass estimation requires information not only on fish biomass, but also on predator biomass, prey biomass, and physical and chemical drivers of biomass
- An international program of scientific research and monitoring is therefore necessary to support diplomatic efforts to control fisheries in the central Arctic Ocean



DIPLOMATIC MILESTONES

OSLO ACCORD JULY 2015

Five nations, Denmark/Greenland, Norway, Russia, United States, Canada agree to no commercial fishing until sustainability is demonstrated (precautionary approach)

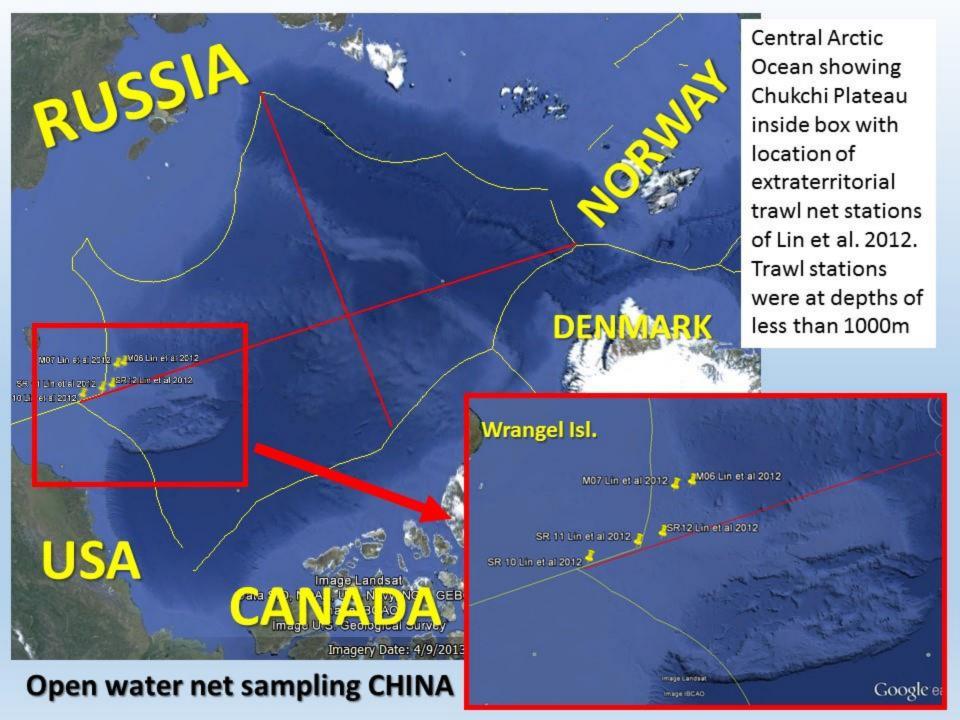
5+5 AGREEMENT DECEMBER 2015

The original five Oslo Accord nations are joined by China, Japan, Korea, Iceland and the EU to agree in principle to an international program of scientific research and monitoring to support diplomatic efforts to reach accord on control of fisheries

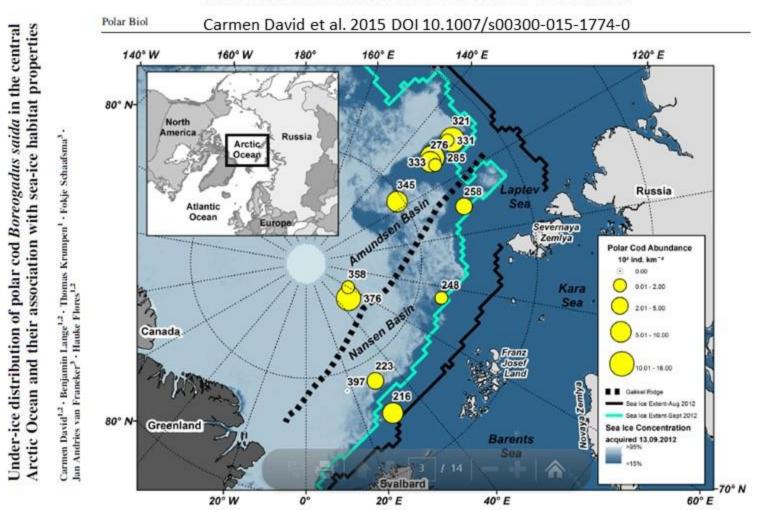


SCIENTIFIC MILESTONES

- MEETINGS OF SCIENTIFIC EXPERTS ON FISH STOCKS IN THE CENTRAL ARCTIC OCEAN
 - First 2011 Anchorage USA (CN,DE,NO,RU,US)
 - Second 2013 Tromso Norway (CN,DE,NO,RU,US)
 - Third 2015 Seattle USA (CN,DE,NO,RU,US,CN,JP,KO,IS)
- 5+5 AGREEMENT SCIENTIFIC MANDATES DEC 2015
 - Continuing scientific process (scientific expert meetings)
 - Specific questions to be answered
 - Joint Program of Scientific Research and Monitoring



CENTRAL ARCTIC OCEAN UNDER ICE SAMPLING *Polarstern* GERMANY



Boreogadus saida median 5,000 km2, max 16,000 km2

Central Arctic Ocean Fish Observations Not in Hand

Igor A. Melnikov – Sea Ice Ecosystem – Proxy for Russian North Pole Drift Observations Points to publications not available in English

> Lin et al. 2012 Chinese Arctic Fish Surveys Points to publications not available in English

UPCOMING EVENTS 2016

- MAY
 - ICES WORKING GROUP INTEGRATED ECOSYSTEM ASSESSMENT CENTRAL ARCTIC OCEAN (WGICA), COPENHAGEN (CLOSED)
- SEPT
 - ICES ANNUAL SCIENCE MEETING, ARCTIC SESSION, RIGA (OPEN)
- SEPT
 - FOURTH MEETING OF SCIENTIFIC EXPERTS ON FISH STOCKS IN THE CENTRAL ARCTIC OCEAN, TROMSO (CLOSED)

HOW MAY SAON CON HELP JPSRM?

Final Report

Inventory of Research and Monitoring for Fish Stocks in the Central Arctic Ocean

Third Meeting of Scientific Experts on Fish Stocks in the Central Arctic Ocean

Montlake Laboratory

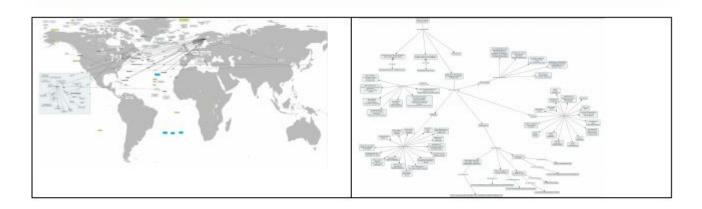
Seattle, Washington, USA

April 14 – 16, 2015



HOW MAY SAON CON HELP JPSRM?

Mapping the Arctic Ocean Fisheries Data Ecosystem: using network science and linked data to enhance data access



Draft Concept Paper Submitted to the Third Meeting of Scientific Experts on Fish Stocks in the Central Arctic Ocean

Peter Pulsifer IASC Data Committee



The End

For more information Google <u>Fourth Meeting of Scientific Experts</u>

http://www.afsc.noaa.gov/Arctic fish stocks fourth meeting/

phil.mundy@noaa.gov

