

## FISH 497 Proposal Presentation Topic Titles

2009

Identifying and analyzing bioenergetics factors to determine a mortality model for juvenile walleye Pollock

The influence of cannibalism in walleye Pollock

Ocean Acidification and walleye Pollock egg and larval mortality and CO<sub>2</sub> toxicity

Incorporating early life history indices into the Georges Bank Atlantic cod (*Gadus morhua*) stock for better management

Comparing diets of walleye Pollock larvae in the southeastern region of the Bering Sea

GOA fishermen beware... Bering Sea fishermen may be staling Pollock from your TAC

A sociological approach to the influence of the North Atlantic Cod Fisheries collapse in Newfoundland

How climate variability influences the susceptibility of Atlantic cod (*Gadus morhua*) to disease

Olfactory sensing of juvenile Atlantic cod (*Gadus morhua*) in low pH conditions

Ocean and climate effects on growth of adult Pollock in the Bering Sea, Alaska.

Affects of warmer climate on spawning walleye Pollock off the coast of Alaska.

2010

Looking for countergradient variation in growth of juvenile Atlantic cod in order to gain an understanding of population structure.

Changes in the spatial distribution of adult Pacific cod (*Gadus microcephalus*) in response to switching climate regimes.

Abundance, Growth, and Survival of Egg and Larval Walleye Pollock (*Theragra chalcogramma*) in Relation to the Longevity of Mesoscale Eddies.

You are what you eat: seasonal bioenergetics of walleye Pollock in the Bering Sea.

The effect of ocean acidification on walleye Pollock: first feeding.

Implications of eddy density on walleye Pollock cohorts.

Environmental drivers of walleye pollock recruitment: Are assessment models the answer?

Developmental Patterns of Egg and Yolk life histories of Walleye Pollock (*Theragra chalcogramma*) on the shelves of Shelikof Strait to Shumgin Is., GOA.

Increased cannibalism in walleye Pollock (*Theragra chalcogramma*) of the Bering Sea due to Bio-physical coupling.

The relationship of spawn timing and larval density to recruitment strength of adult Pacific halibut.

2011

Snow crabs, recruitment indices, management goals and artificial precision

Stock assessment of the spiny dogfish, (*Squalus acanthias*) along the coast of Washington and Vancouver B.C.

Effects of acidification on walleye Pollock eggs.

The impacts of warming temperatures on the phenology of walleye Pollock (*Theragra chalcogramma*) spawning.

Stock identification using morphology, migration, and fecundity. The case of the Pacific sardine.

Sockeye salmon homing abilities: impairment by freshwater acidification.

Arrowtooth Flounder: temperature mediated predator-prey interactions.

The effects of toxic phytoplankton blooms on walleye Pollock eggs and larvae.

An investigation of environmental and density dependent effects on growth of adult walleye Pollock in the Gulf of Alaska.

Success of juvenile walleye Pollock based on vertical placement.

The effect of temperature on the escape response of walleye Pollock (*Theragra chalcogramma*).

Assessing the spawning biomass of Arctic cod (*Boreogadus saida*) in the Chukchi Sea.

2012

Predation risk on juvenile Atlantic cod: competition for preferred substrate alters predation risk.

Oceanic growth and distribution of fall and spring run Chinook salmon of the Klamath River system.

Characterization of a fish community within a deep sea canyon in the Gulf of Alaska.

Geospatial variation of Pacific Hake.

The future of reef fisheries: dependent on the conservation and health of coral reefs.

Comparative examination of various nursery habitats' contribution to recruitment.

Evaluating anadromous salmon spawning success in response to dam removal along the Elwha River.

Sea surface temperature and walleye Pollock recruitment in the southeastern Bering Sea.

The effects of wind-mixing and turbulence on prey composition and prey selectivity of larval walleye Pollock (*Theragra chalcogramma*).

Predicting Pollock: take a number.

Effect of ocean acidification on otolith development and hearing sensitivity of walleye Pollock (*Theragra chalcogramma*).

Essential habitat for newly settled Atlantic cod larvae.

2013

Predicting regime shifts for the use in management of walleye Pollock in the Bering Sea.

Correlations between environmental conditions and survival of pink salmon (*Oncorhynchus gorbuscha*) in the Gulf of Alaska.

Population connectivity among GOA walleye Pollock.

Influences of temperature on the spatial overlap with and consumption of age-1 walleye Pollock (*Theragra chalcogramma*) by arrowtooth flounder (*Atheresthes stomias*) in the eastern Bering Sea.

The effects of oceanic temperatures on the return migration of Chinook salmon.

Temperature shifts effect on mortality rates of Arctic cod eggs.

Hypoxia tolerances between two subpopulations of juvenile Pacific Herring (*Clupea pallasii*) in Hood Canal, WA.

Pacific Hake Biomass in Relation to Energy-Rich Forage Biomass in Queen Charlotte Sound, BC.

Egg quality and survivorship in *Clupea pallasii* and hypoxia in Hood Canal.

2014

Effects of a warming ocean on larval Pacific cod and their prey base.

Effects of climate change on Atlantic cod early life stages in the northwest Atlantic.

Using Walleye Pollock (*Gadus chalcogramma*) Otoliths to Reconstruct Preferred Nurseries and Redefine Management in Alaska.

Diel Vertical Migration of juvenile Pacific Cod (*Gadus macrocephalus*) based on wind speed in the Gulf of Alaska.

Using wind and zooplankton abundance to determine total energy.

GPS tracking of *Mola mola* to spawning grounds in the North Pacific Ocean.

Pacific swordfish (*Xiphius gladius*): distribution and abundance in response to El Niño.

#### 2015: Aleutian Islands

Correlation between physical oceanographic characteristics and the distribution of juvenile and adult Red King Crab (*Paralithodes camtschaticus*) in the Aleutian Islands

Post settlement recruitment of Golden King crabs to unique environments in the Aleutian Islands

Assessing the effects of climate change on the distribution and abundance of walleye pollock in the Aleutian Islands

Estimating larval survival for Atka mackerel, *Pleurogrammus monopterygius*, in the Aleutian Islands

Impacts of rising temperatures on Pacific Ocean Perch growth rates within the Aleutian Archipelago

Nesting site preference for Atka Mackerel (*Pleurogrammus monopterygius*) in the Aleutian Islands

Effects of Aleutian Islands northern and southern current flow on growth rate of larval Pacific cod (*Gadus microcephalus*)

Arrowtooth Flounder (*Atheresthes stomias*) Predation on Juvenile Walleye Pollock (*Gadus chalcogramma*) in the Aleutian Islands

Stock assessment research: fished vs non-fished rockfish within the Aleutian Islands