

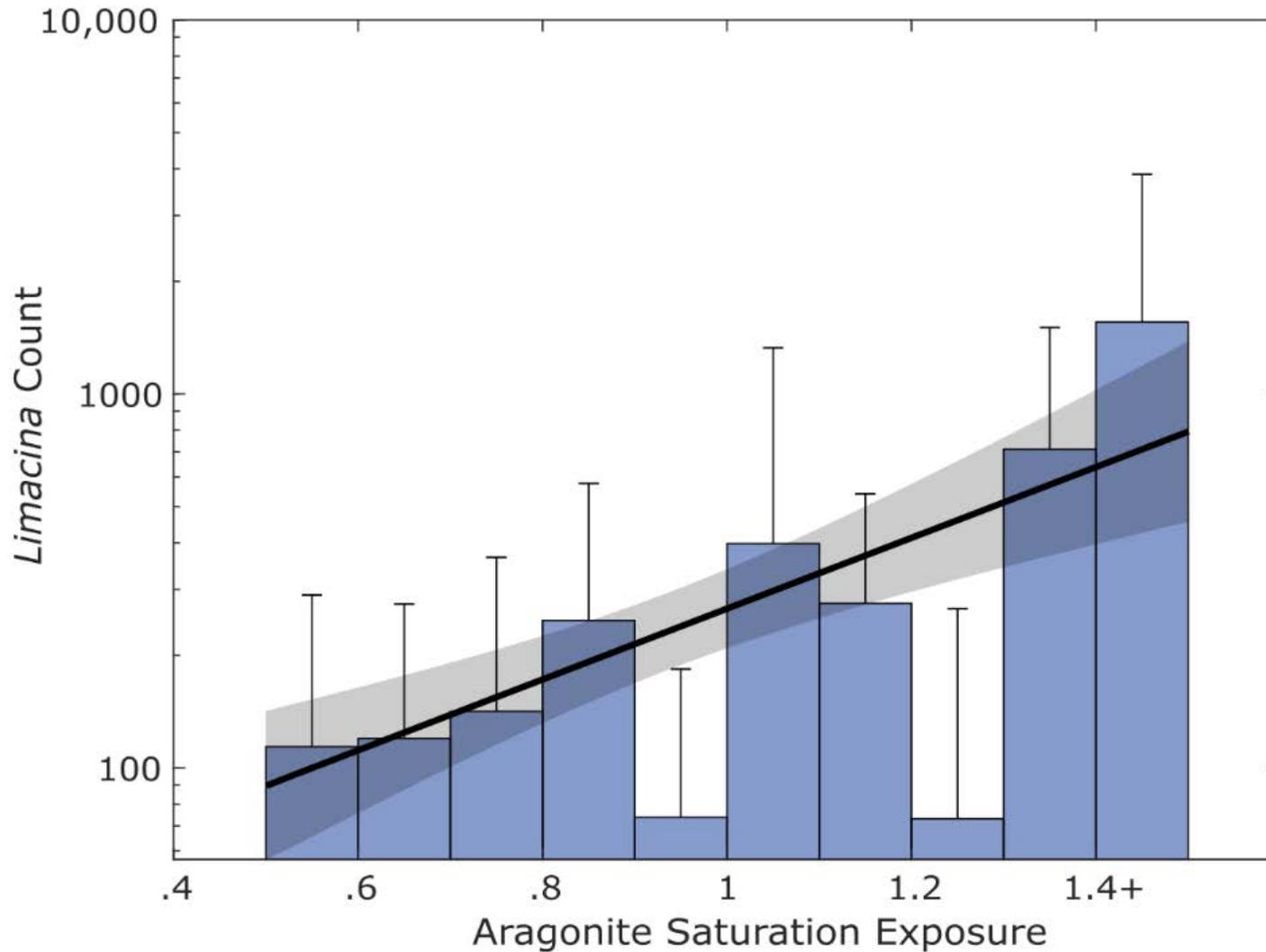
**Why should we care?**



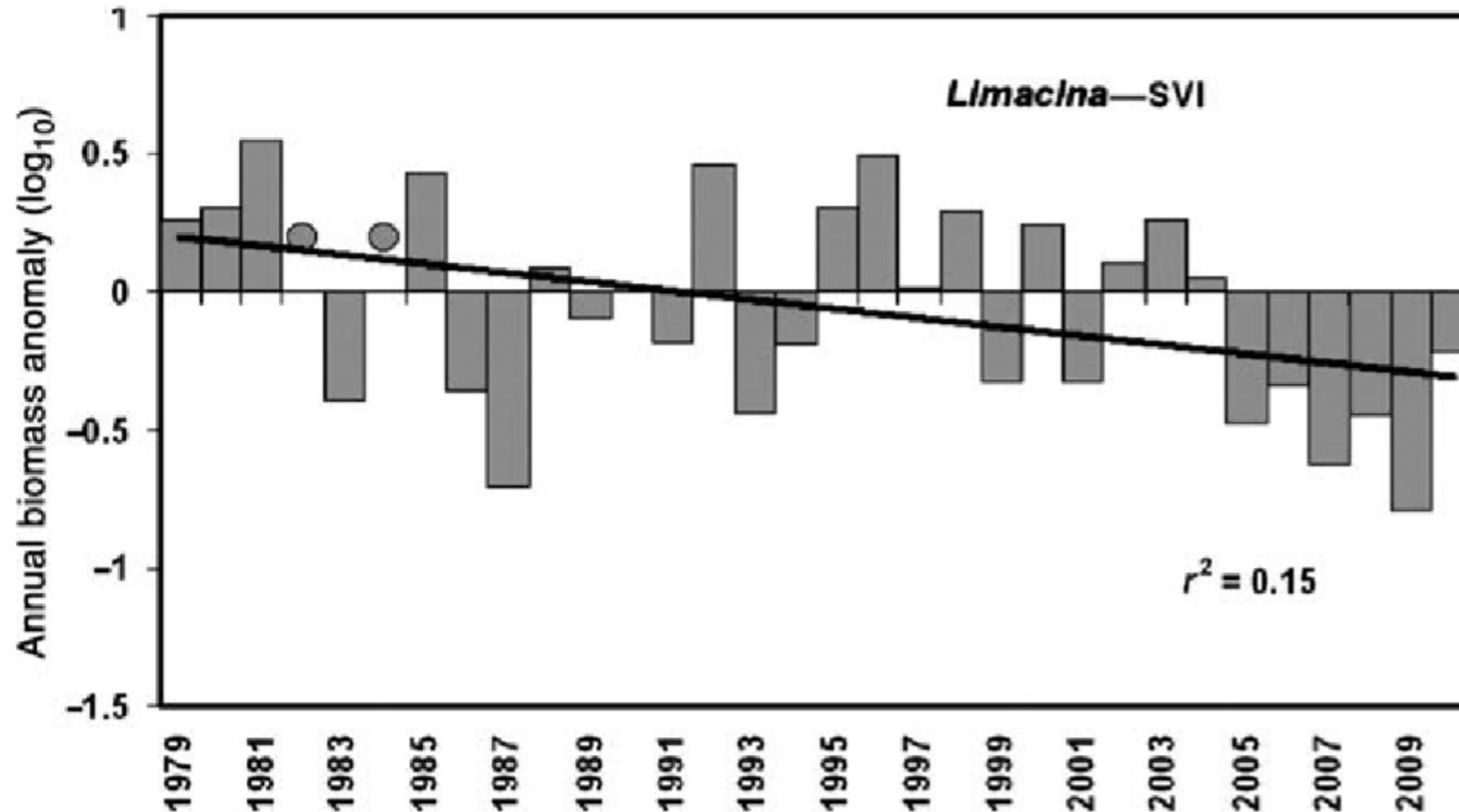
# ACCESS data includes:

Dataset	Years	Description	Collaborations
<b><u>CONTINUOUS DATA</u></b>			
Water properties (TSG)	2004 – present	Surface temperature, salinity, and fluorescence	NASA
Hydro acoustics	2004 – present	Acoustic abundance of krill and fish	
Bird and mammals	2004 – present	Strip and line transect counts of birds and mammals	EOS
<b><u>STATION DATA</u></b>			
Water properties (CTD)	2004 – present	Temperature, salinity, dissolved oxygen, fluorescence, etc.	BML, CeNCOOS, EOS, NASA
Nutrients	2005 – present	Surface nitrates, phosphates, and silicates	CeNCOOS, EOS
Acidification	2010 – present	pH and total alkalinity	BML, EOS
Phytoplankton	2010 – present	Phytoplankton species in surface waters	SFEI
Zooplankton (hoop nets)	2004 – present	Zooplankton species in surface waters (<50 m)	BML, CeNCOOS, EOS
Krill (Tucker trawls)	2004 – present	Krill species and age classes in deep waters	BML, CeNCOOS, EOS

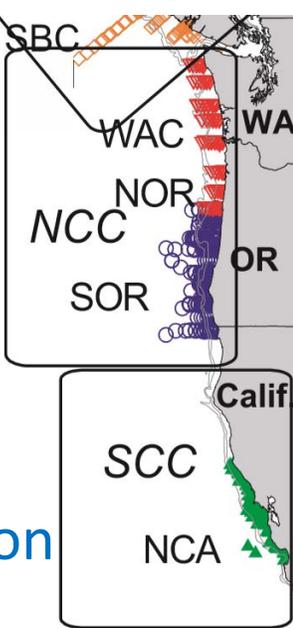
# Acidic waters in the GOF have fewer pteropods



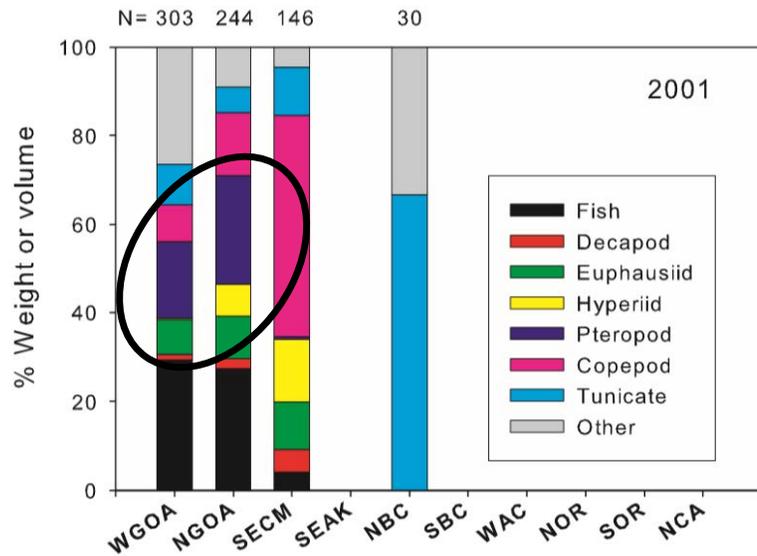
# Pteropods are declining in the North Pacific



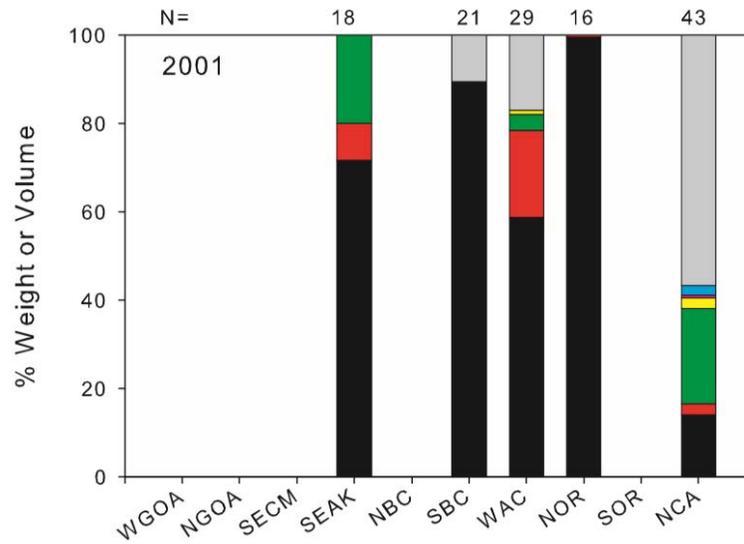
# Salmon eat pteropods



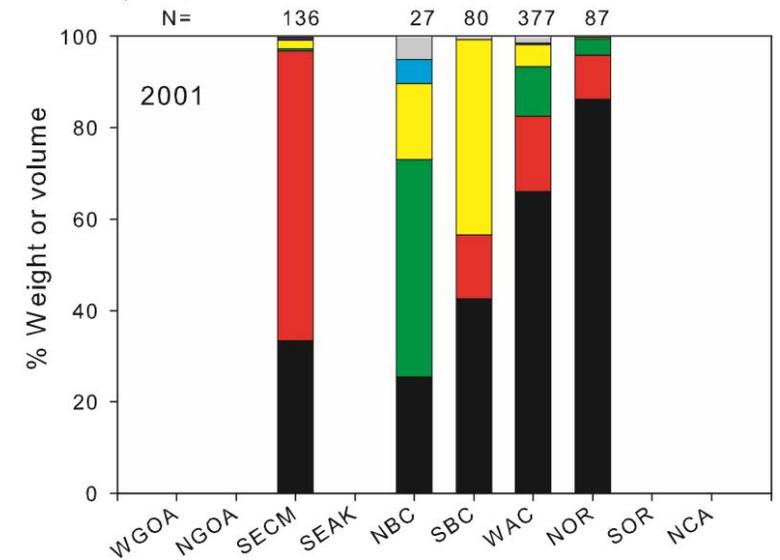
## Pink salmon



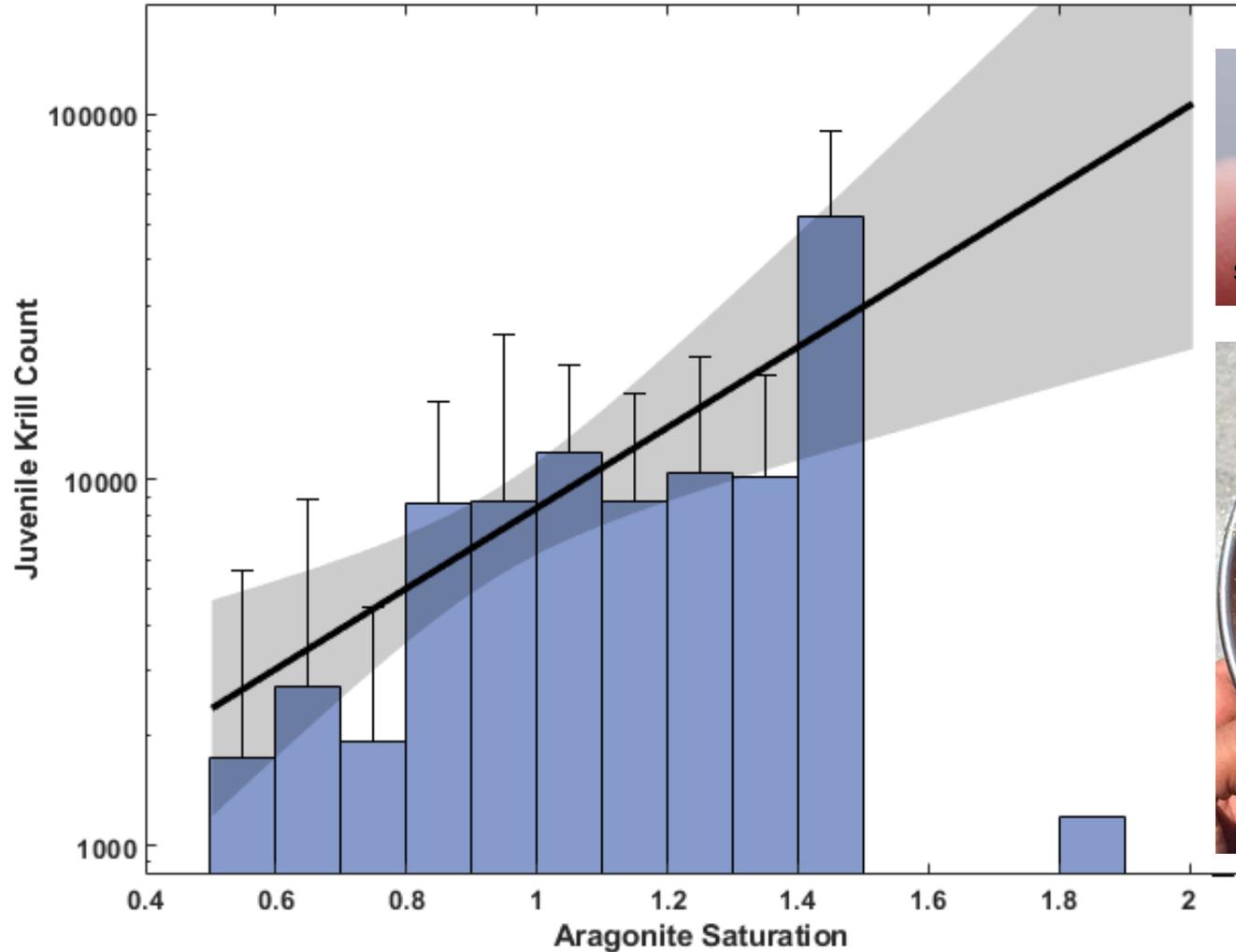
## Chinook salmon



## Coho salmon

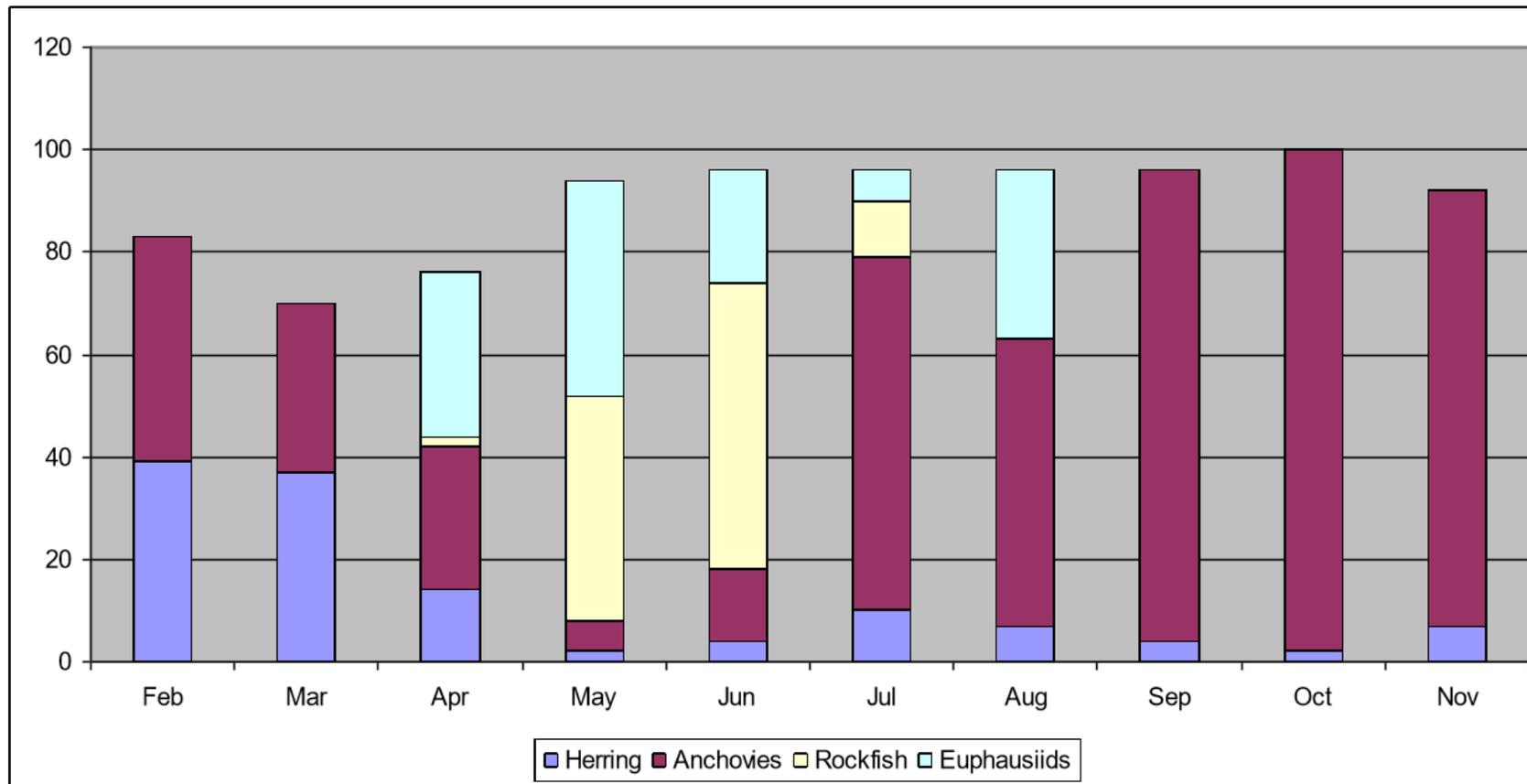


# Acidic waters in the GOF have fewer juvenile krill

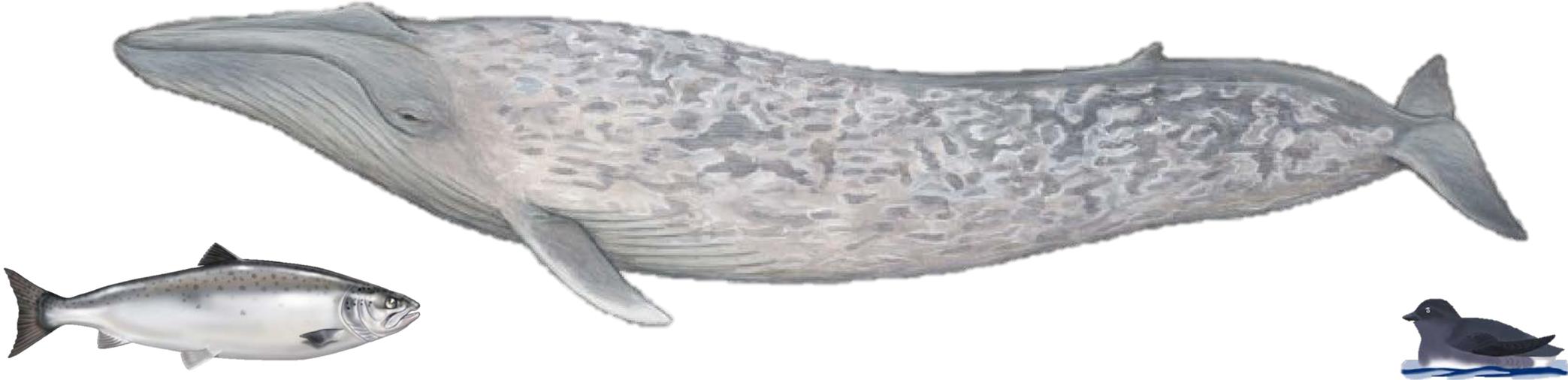


# Salmon eat krill

## Chinook salmon diet in the Gulf of the Farallones



# Krill is important for the food web, the ecosystem, and the local economy





Point Blue  
Conservation  
Science

# Thank You