

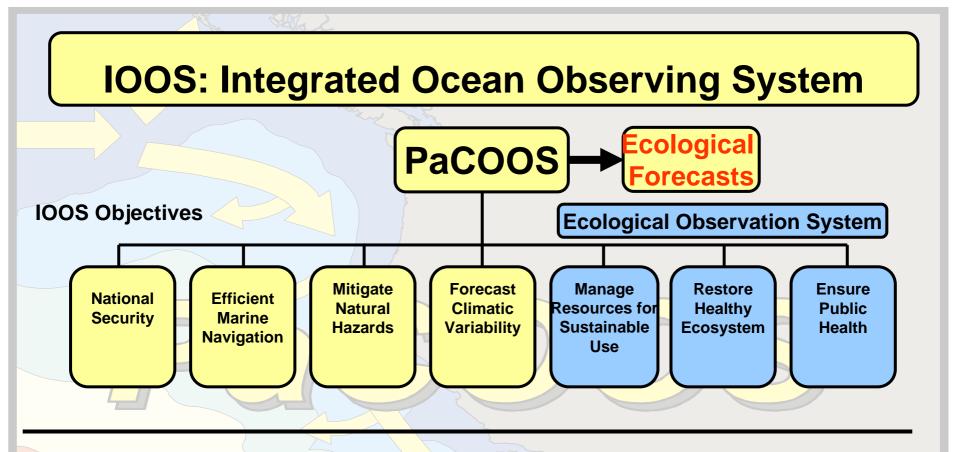
**Southwest Fisheries Science Center** 

NOAA Fisheries Service

## PaCOOS: the Ecological Observing System for the California Current

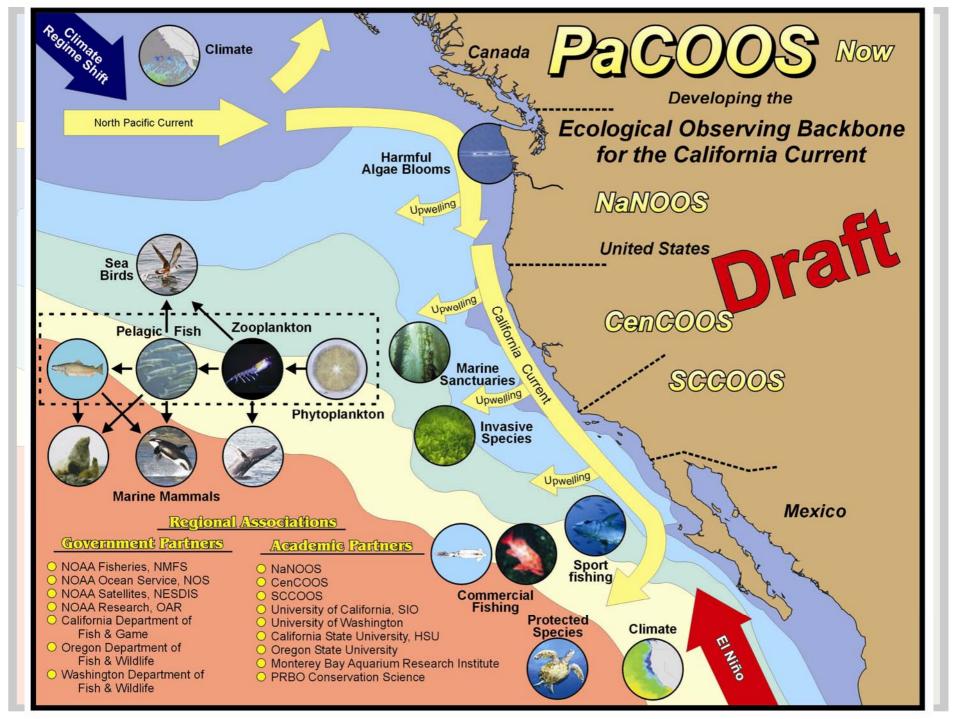
## Update and Request from the PICES Governing Council

Jonathan Phinney Assistant Center Director NOAA Fisheries (SWFSC) October 2006 John Stein Deputy Science Director (NWFSC)

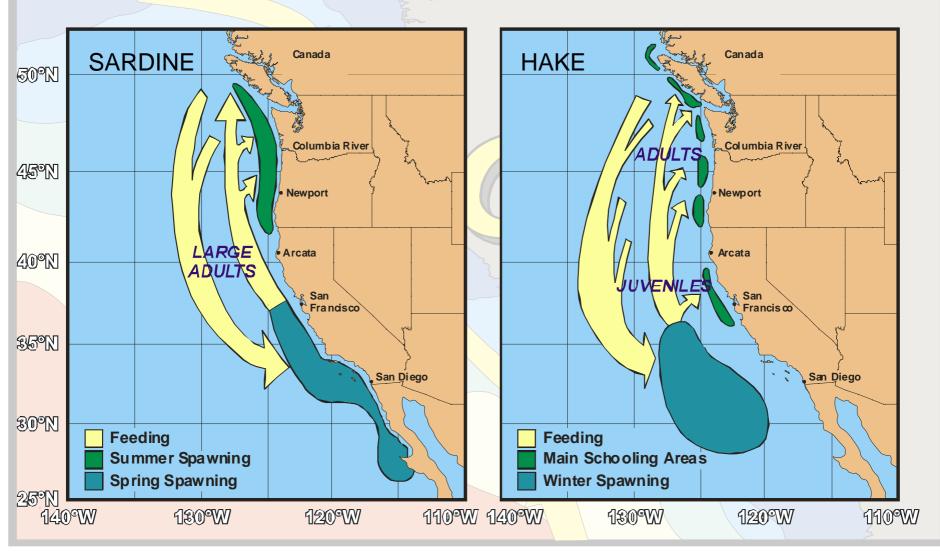


**POTENTIAL Ecological Forecasts:** 

Sardines, Hake, Salmon, Harmful Algal Blooms



#### Transboundary Example: Coast-wide Fisheries



# **PaCOOS** History

- Charter established (2003)
- 3 Annual Board of Governors Meetings (2003-2005)
- Science Plan (2005) (updated in 2006) & evolving
- NOAA's SWFSC Assistant Center Director to develop PaCOOS along the California Coast in collaboration with the NWFSC (2005)

# PaCOOS Board of Governors

- US Federal Govt Agencies
  - US State Govt. Agencies
  - Academic Members/NGO's

Regional Association (Ex-officio) – NANOOS – CENCOOS – SCCOOS

International (Ex-officio)
– PICES

 Canada-DFO (Invited to 2006 Board Meeting in January 2006)
Mexico-Instituto Nacional de la Pesca (Invited)

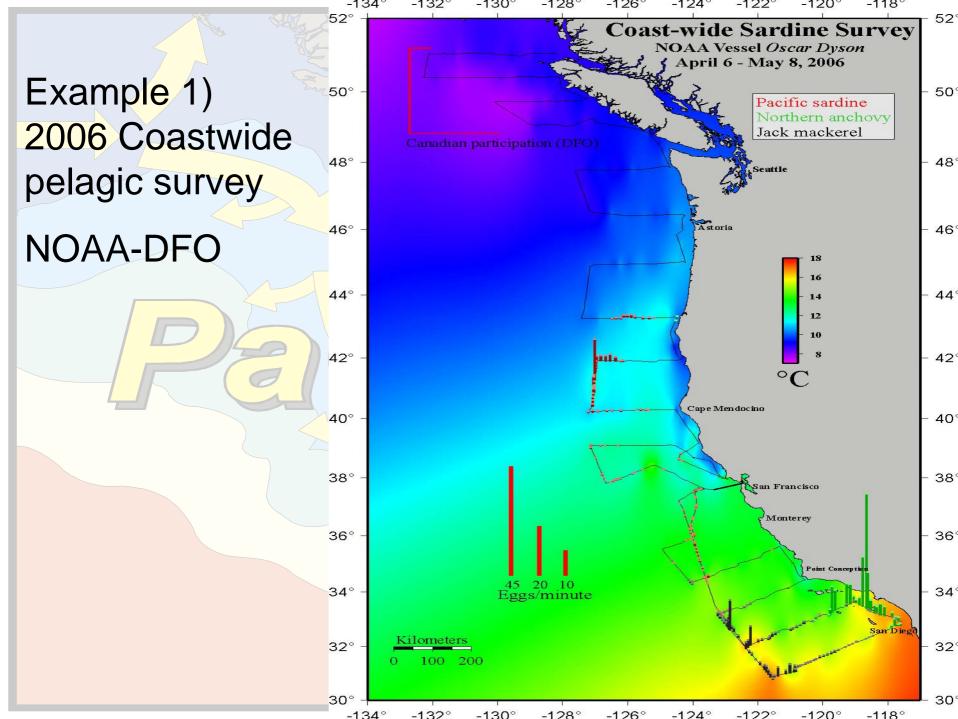
# PaCOOS NOAA Products and Service Development for 2006

#### Data Management

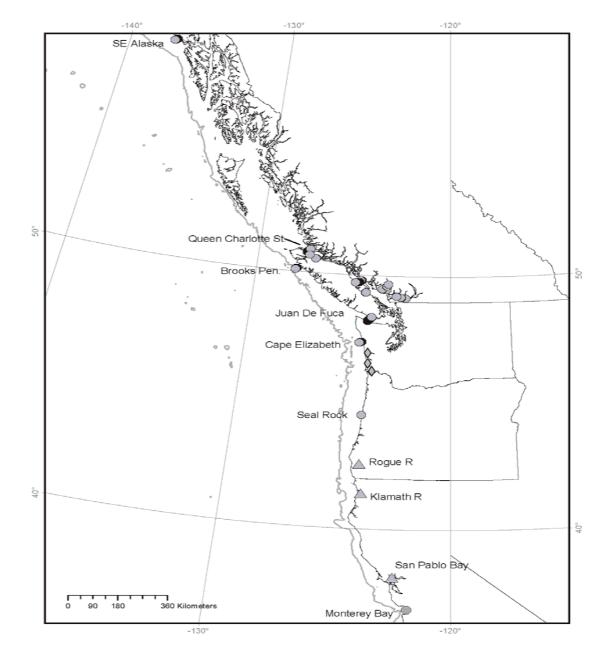
- NOAA: CA Current-related data accessible using DMAC standards (NWFSC, SWFSC, NMSP).
- RA's: Krill Data management with (modest) \$ (SCCOOS/CENCOOS)
- Ocean Observing
  - CalCOFI surveys for the 56<sup>th</sup> year (SIO/NOAA/CA F&G)
  - Coastwide ("BC to BC") ichthyoplankton survey
- Products
  - Model development on feasibility of CPS "forecast" (CPS)
  - <u>Preliminary Integrated Ecosystem Assessment (NOAA).</u>
  - Bill Peterson (NOAA) Coho Salmon Forecast for 2006 & 2007

## PaCOOS ties with PICES:

Presently at the research level between Canadian and US Scientists



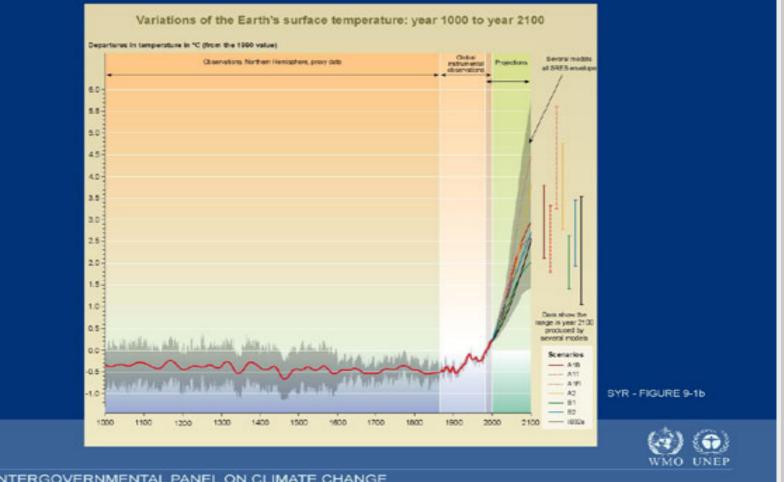
Example 2) Green Sturgeon tagged in the USA and recorded in Canada NOAA-DFO



# PaCOOS needs from PICES

- Support forecast concept development
  Topic Session at PICES 2007 Annual Meeting
- Support forecast model development amongst PICES member countries.
  - Encourage multiple model development on same topic
- Support Data Collection and Management that are compatible with ocean observing standards.

### **Ecosystem Forecasts need to follow IPCC Procedures:** Multiple models applied to the same problem



#### IPCC

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

# PaCOOS can advise PICES on FUTURE Program

 "FUTURE will ....focus() on understanding the mechanisms underlying ecosystem response, by developing a forecasting capability, and by providing estimates of the uncertainty associated with these forecasts."

(PICES FISP Draft following Interim Science Board Meeting held in April 2006)

# Thank you