



Alaska SeaLife Center®

w i n d o w s t o t h e s e a

Steller sea lion research

a brief overview

Shannon Atkinson, Science Director
Don Calkins, Program Manager

Jo-Ann Mellish, Scientist



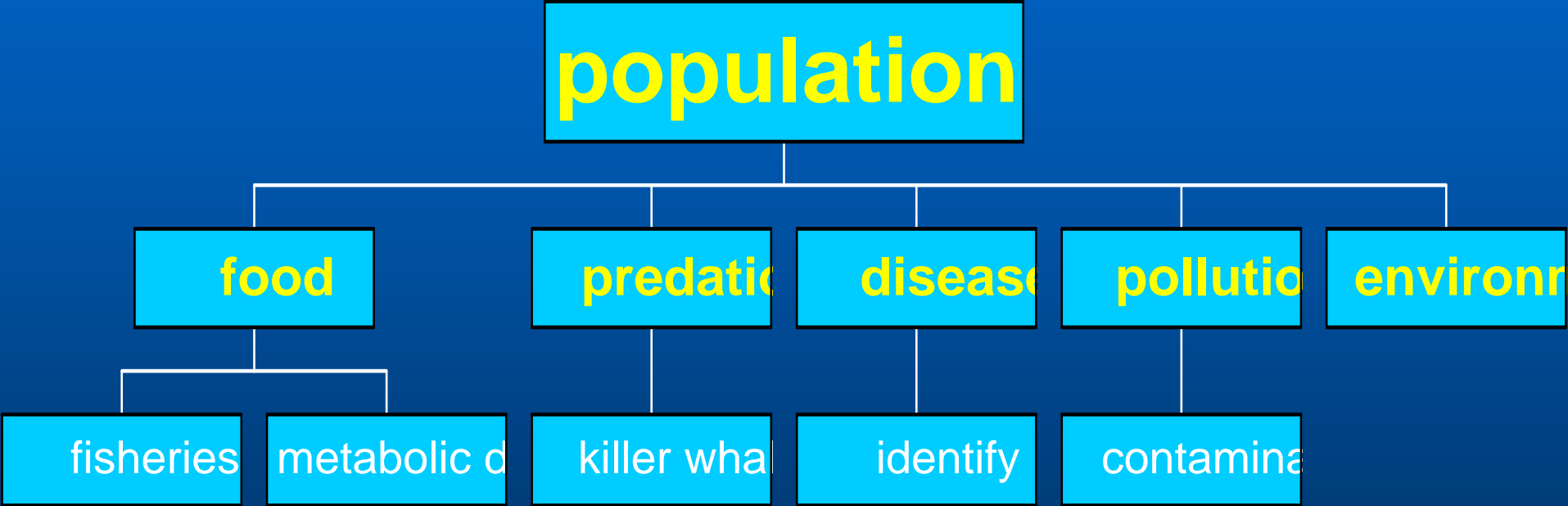
Steller sea lion program

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

- Science Director
 - Shannon Atkinson
- Program Manager
 - Don Calkins
- Scientists
 - Russ Andrews
 - Jo-Ann Mellish
- Research Associates (4)
- Graduate Research Assistants (6)
- Research Technicians (1)
- Lab Managers (2)
- Field Coordinator (1)
- Vet Services (4)
- Interns
- Subcontracts/collaborators



conceptual model



Russian studies



- mother-pup energetics and metabolism
- remote-sensing tag development
- population census
- brand resight
- biosampling
- estimates of mortality rates and causes
- diet studies



demography & behavior

Chiswell remote video system

- SeeMore Wildlife
- University of Texas Medical Branch
- Texas A&M University at Galveston

Video Data Acquisition Platform (VDAP)

- Texas A&M University at Galveston



transient juvenile project

- up to four juveniles
- 3 months research
- specialized quarantine facility
- collaborative research platform
- free-range studies PWS



QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

stress, disease and immunology

- **contaminants**

- University of Southern Mississippi
- University of Hawaii

- **cortisol**

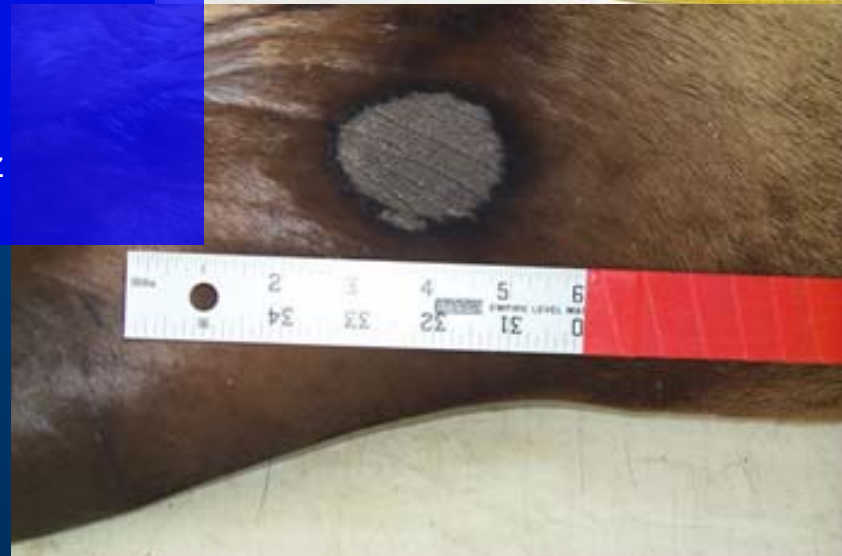
- population baseline
- predator/environmental stress

- **reproductive hormones**

- population baseline

- **effects of early nutrition**

- University of California Santa Cruz



prey and predation

- predation by killer whales
 - False Pass/GOA
- Russia Far East Orca Study
- Chiswell video monitoring
- forage fish
- Orca energetics
 - University of California Santa Cruz



instrument development

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.



- innovations in remote monitoring
- Orca tag development
- heart monitor implantation
 - University of Birmingham
- LHX transmitters
 - Texas A&M University at Galveston

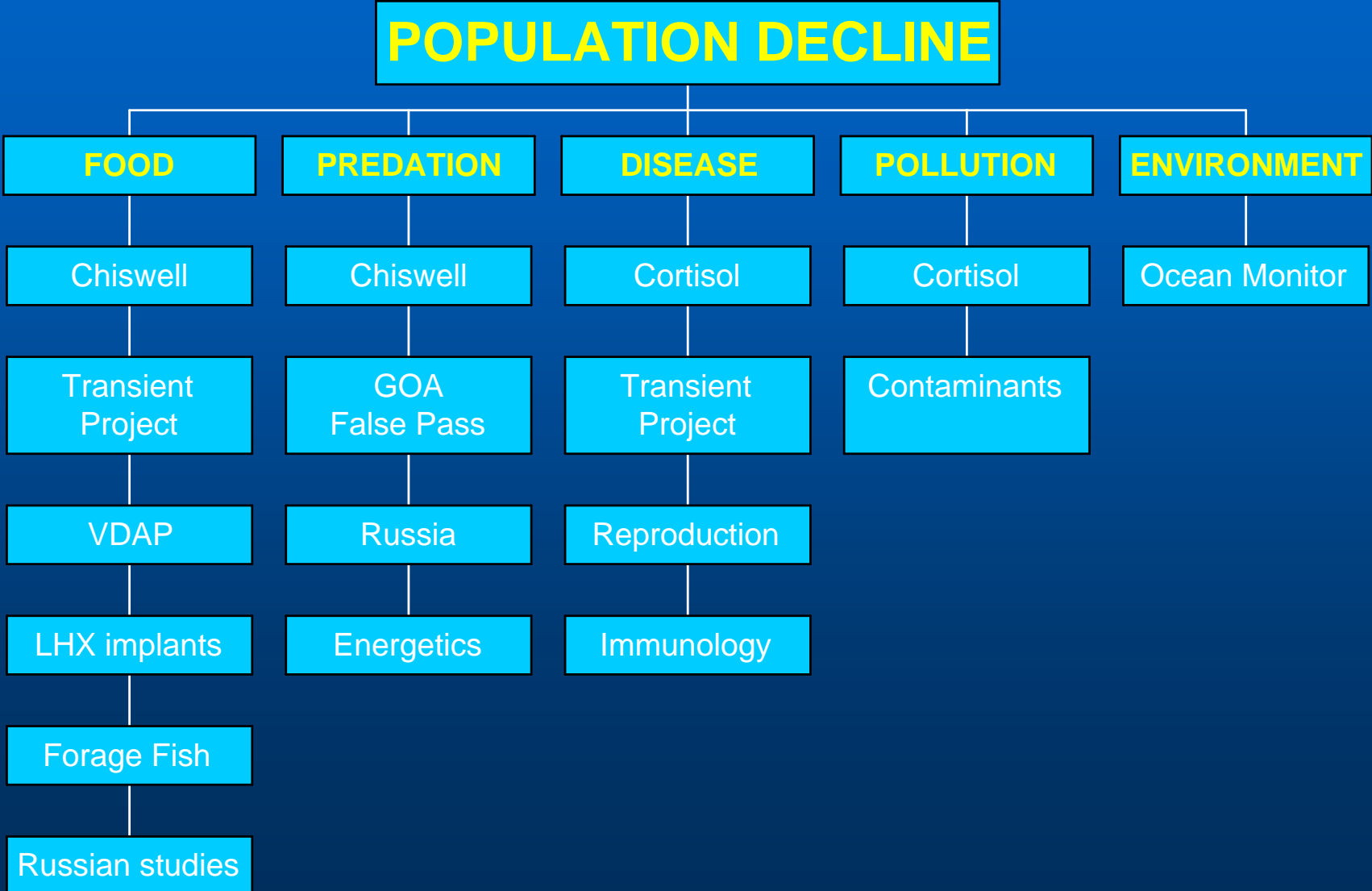
long-term captive research



1 male, 2 females

- nutrition
- metabolism
- reproduction
- instrument development

conceptual model



featured studies

Steller sea lion research in the Russian Far-East

Jason Waite, Research Associate, PhD candidate

New techniques to assess prey availability and predation

Sarah Norberg, Research Associate

Remote video studies

John Maniscalco, Research Associate

Steller sea lion decline and fisheries

Daniel Hennen, Scientist

Contaminants in Stellers sea lions

Matt Myers, PhD candidate

Transient Juvenile Project

Jo-Ann Mellish, Scientist

