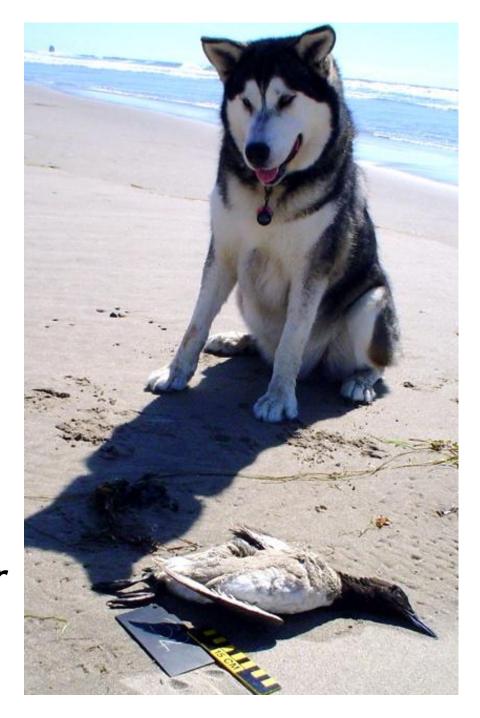
Dead Birds Don't Lie

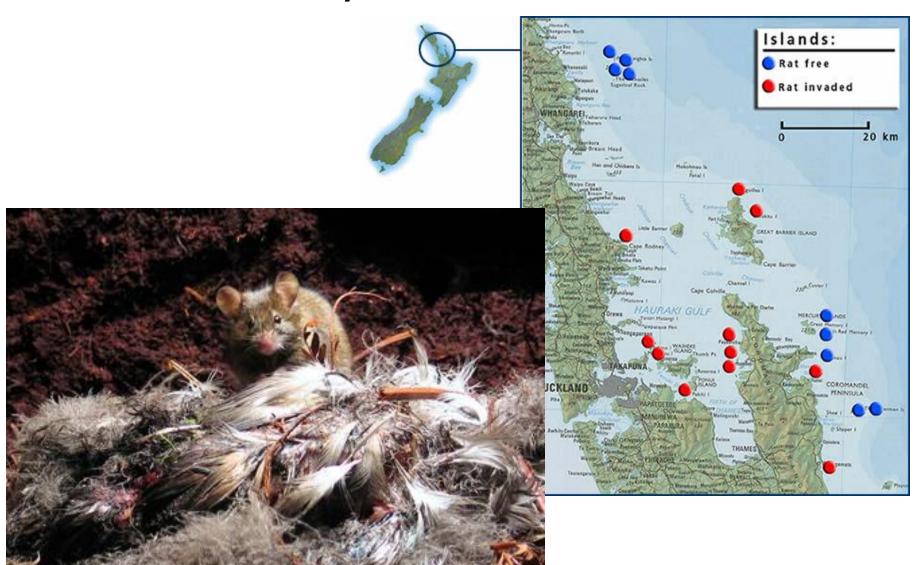
But What Are They Really Telling Us?

Julia K Parrish
COASST Executive Director
Univ. of Washington
www.coasst.org



A Brief History of Human-Seabird Interactions

Introductions, Rats and Mice

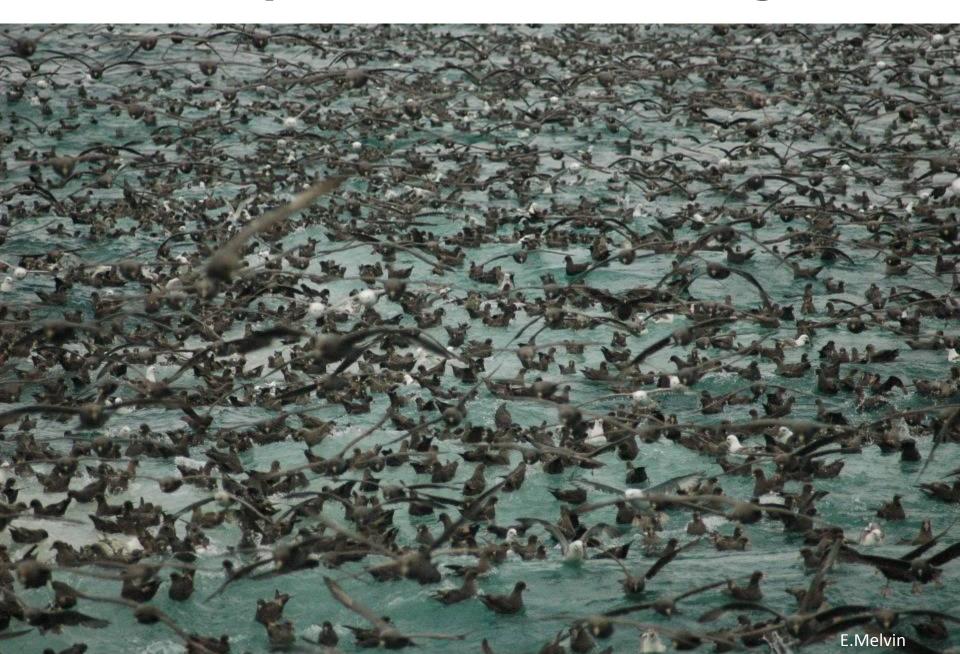


Introductions, Fur Trade

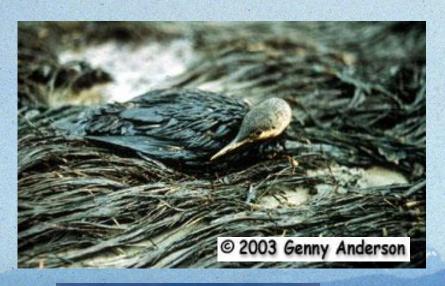


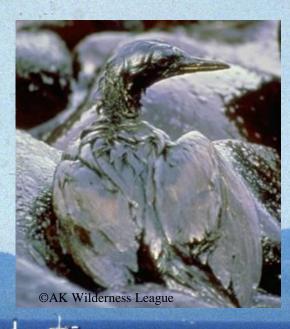
Extractions, **Fisheries** Dave Houston Graham Robertson Yuri Artukin

Fishery Effects - Provisioning



Pollution, Oil



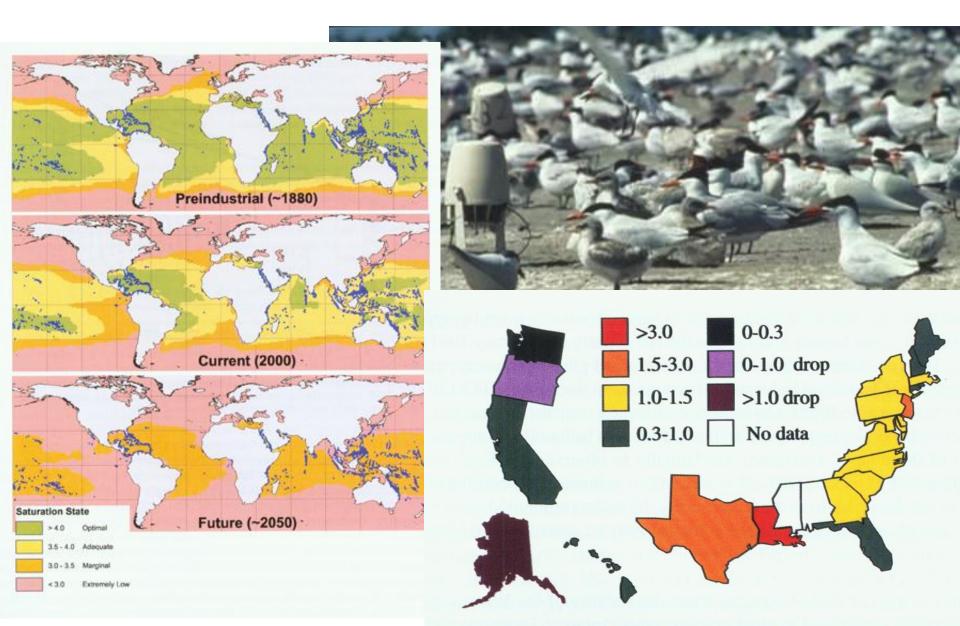




Pollution, Plastics and Marine Debris



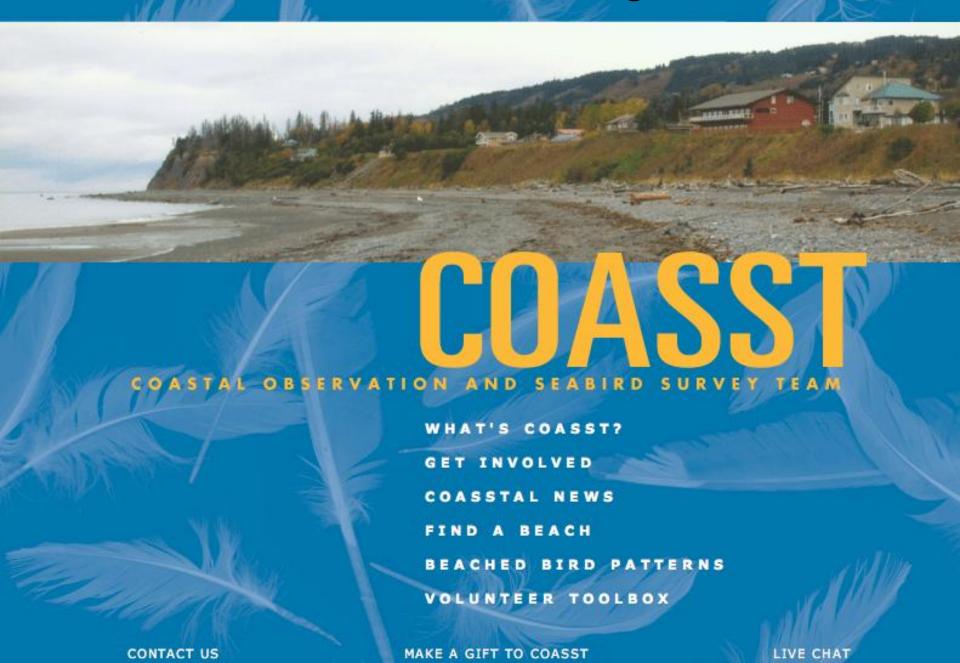
Climate Change, Sea Level Rise

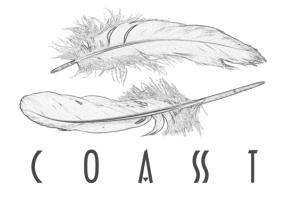




The Coastal Observation and Seabird Survey Team

check us out @ www.coasst.org





What is COASST?

- COASST is a rigorous citizen science project of the University of Washington in partnership with state, tribal, and federal agencies, environmental NGOs, and community groups.
- Participants survey beaches for beach-cast bird carcasses.
- Participants also collect data on oil, dogs, humans and vehicles on beaches.

COASST Mission: empower community members to personalized action through participation in science – collecting information that makes a difference.

Who is COASST?



Hillary Burgess

Marine Debris

Coordinator



Jane Dolliver
Seabird
Coordinator



Erika Frost Volunteer Coordinator



Julia Parrish
Executive
Director



Heidi Pedersen Trainer; Data Verifier



Jenn Ma Graduate Student



Charlie Wright

Data Verifier



10-15 Student Interns





Occupations:

Retired 44%

Science 26%

Education 17%

Business 12%

Health 10%

Student 8%

Self employed 8%

average age = 58 (range=7-93)

female 63:male 37

couples, families 40%



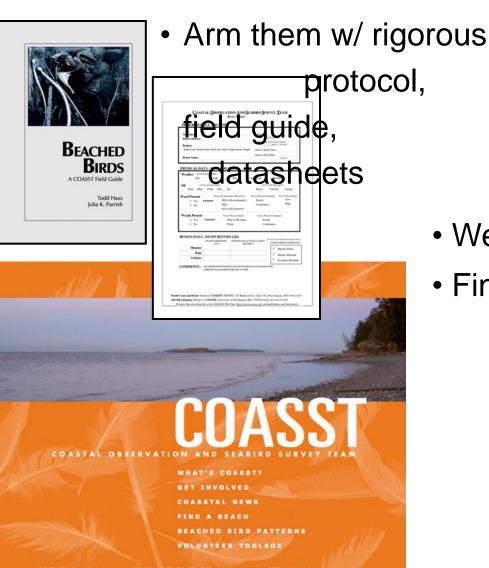
Why Document Dead Birds?



- They can be thoroughly examined and are easily photographed
- They contain lots of valuable information

How Does COASST Work?

Recruit and train local citizens

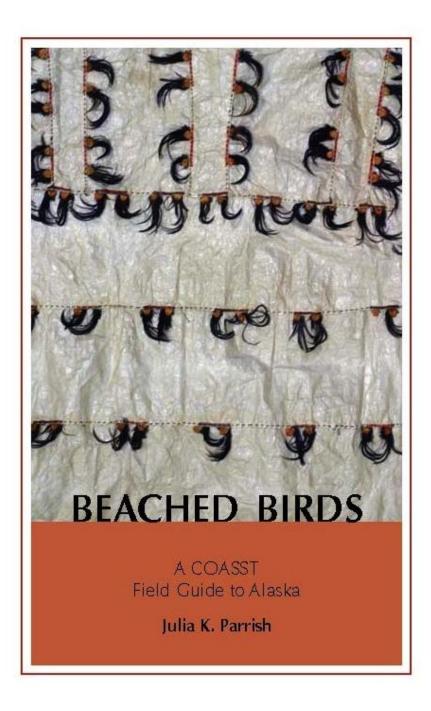


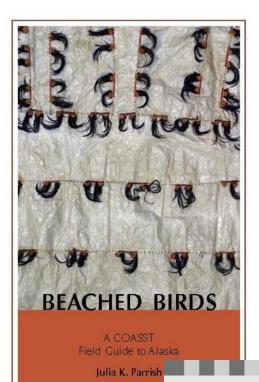


- Web-based "smart" data input
- Final verification by experts



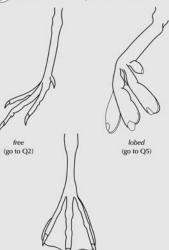
Data analyzed and presented





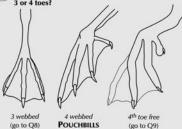
Foot Key

Q1 Are the front toes free, lobed or webbed?

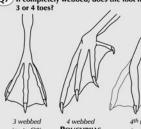




Q7 If completely webbed, does the foot have 3 or 4 toes?



POUCHBILLS



25

Brandt's Cormorant

Phalacrocorax penicillatus







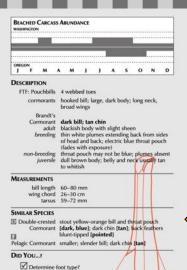
1 FACE

(2) THROAT POUCH

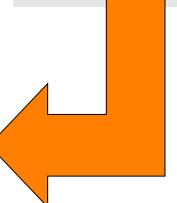
PB₂

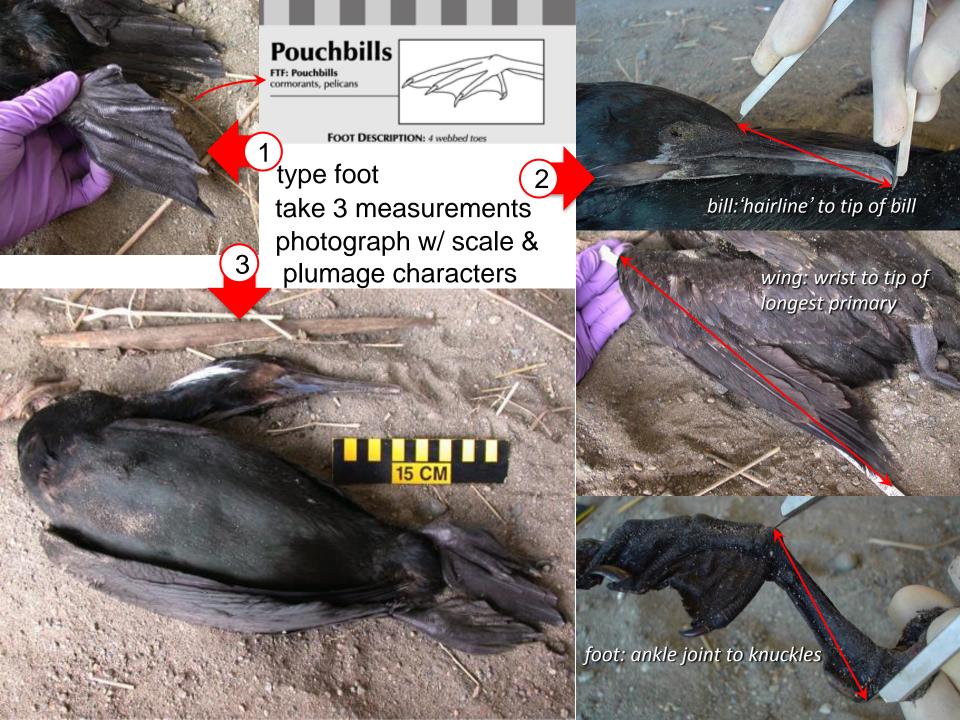


Note bill shape? Note color of chin feathers and throat pouch ☑ Note color of underparts?

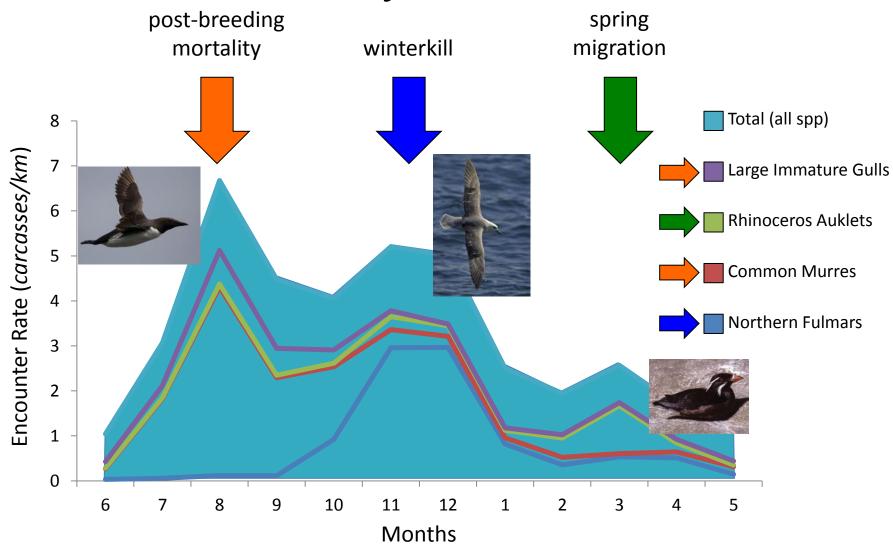


PB3





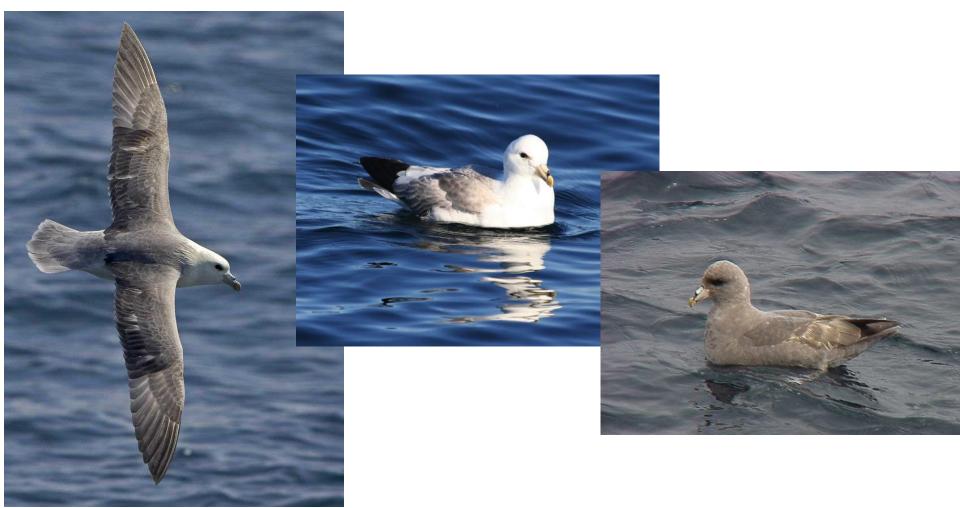
Natural History of Dead Birds

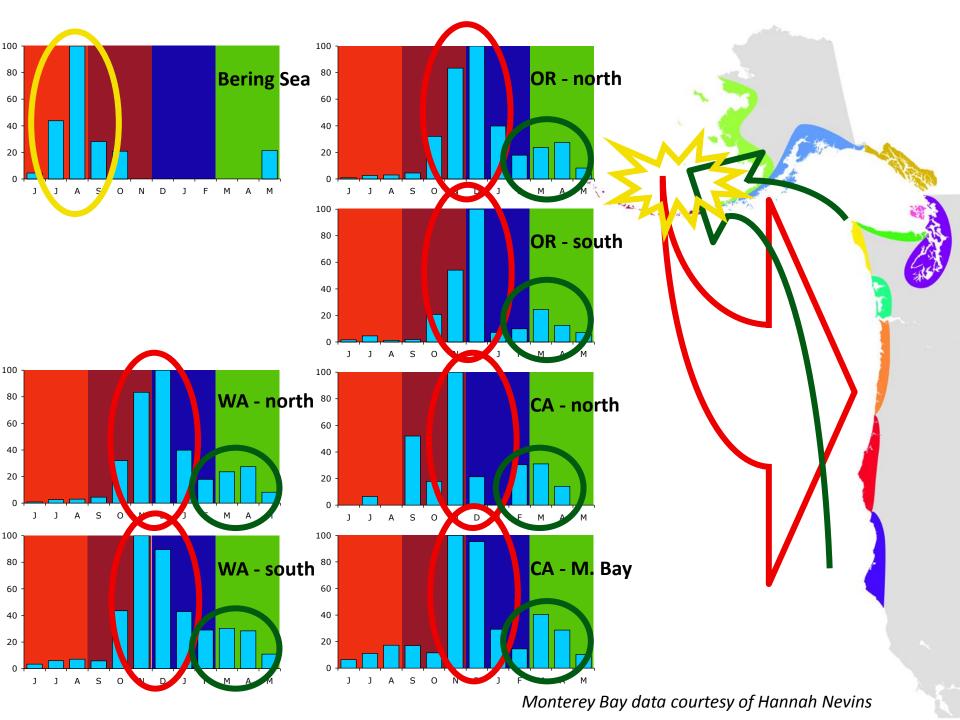


"Local Breeders" – breed and die (wreck at home)

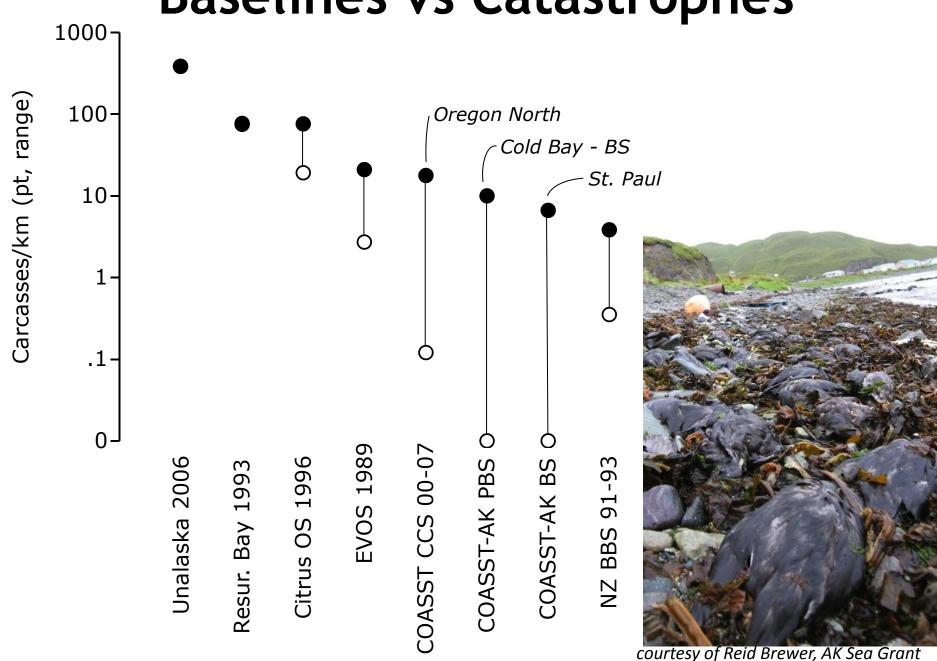
"Migrators" – breed, migrate, and die (wreck when you get there)

So What? establishing a baseline





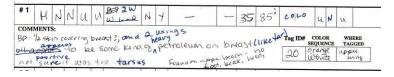
Baselines vs Catastrophes



Wrecks (e.g. murres, February 2012, Seward)



Oil (e.g. COLO April 2011, Juneau)



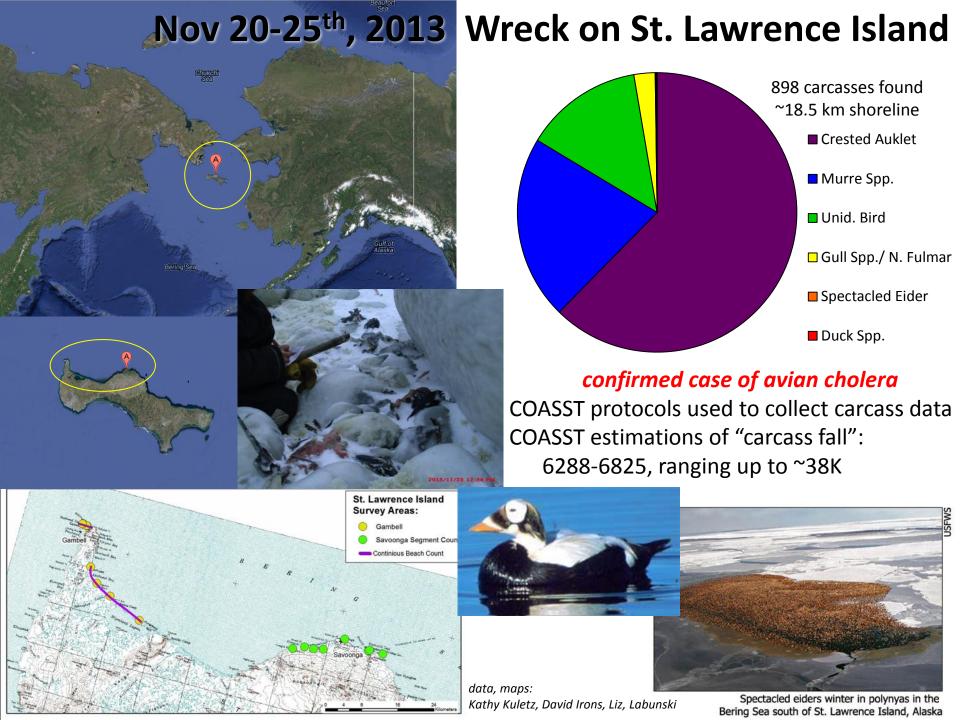




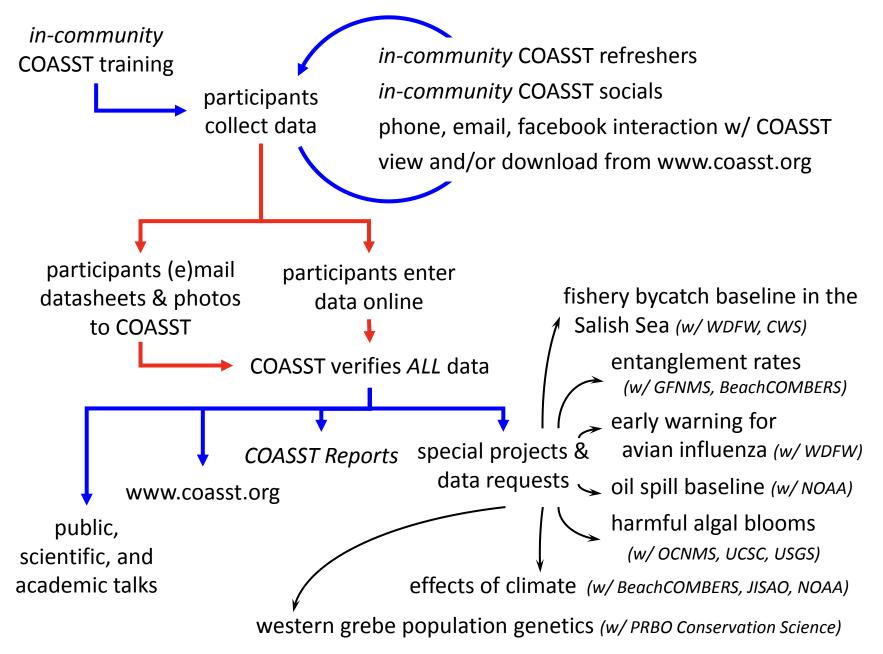
Entanglement (e.g. BLKI Aug 2010, Homer)







How Does COASST Work?



LEO and COASST



- Invite COASST to conduct a training in your community.
- Come to a COASST training at the Alaska Forum.
- Adopt COASST materials when making observations for LEO – a future webinar?

How to find us:

COASST main office: info@COASST.org

Me! jparrish@uw.edu