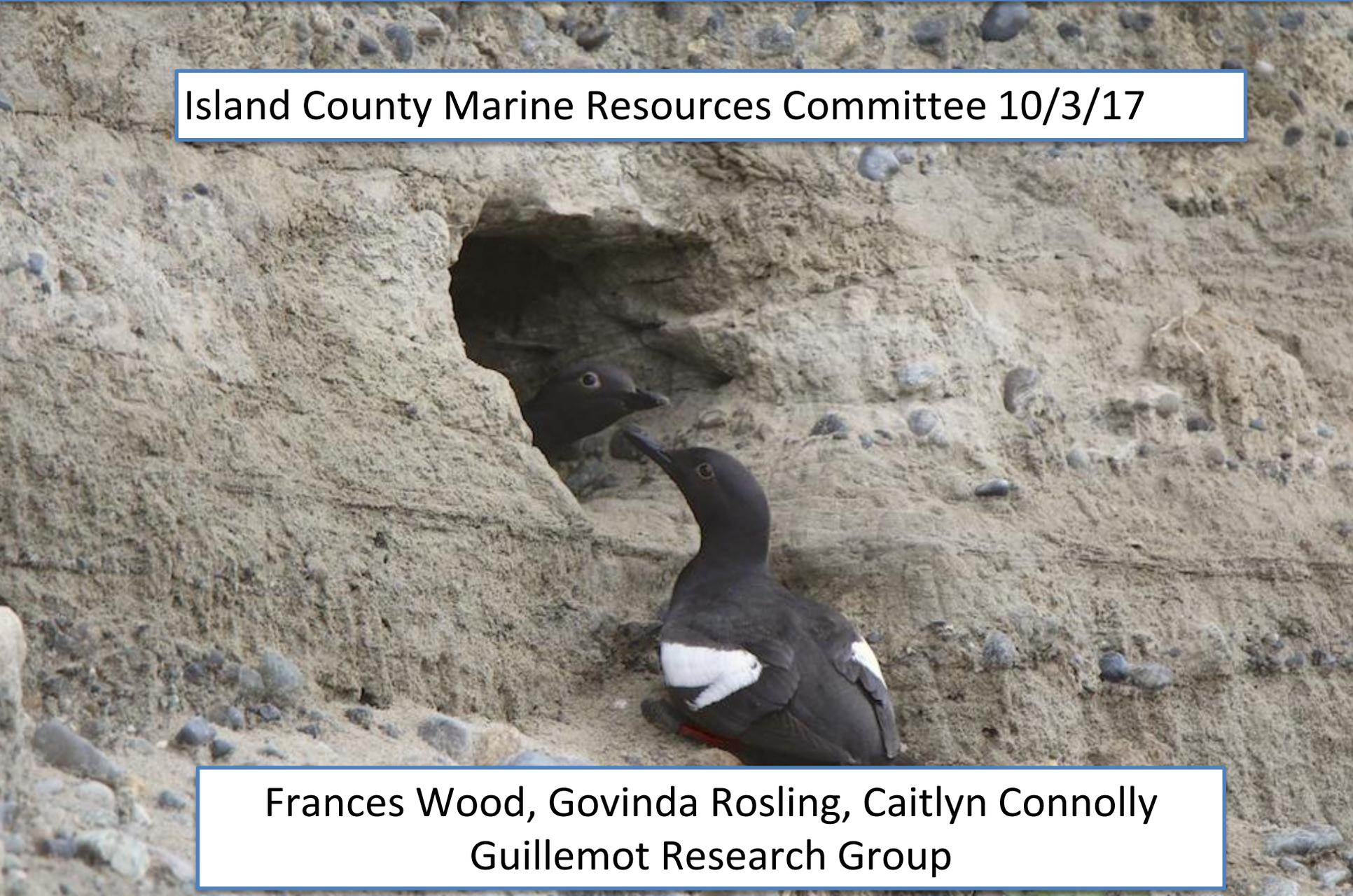


Pigeon Guillemot Summary 2017

Island County Marine Resources Committee 10/3/17



Frances Wood, Govinda Rosling, Caitlyn Connolly
Guillemot Research Group

Pigeon Guillemot Research Group



"The Whidbey Island Seabird Survey is a rare example of “citizen science” done extremely well! It includes annual updates, a high quality web site, peer reviewed publication, and active participation in regional Seabird conservation. The information gathered through this survey effort is used as an indicator of the health of Puget Sound. Given limited resources, this type of active participation in monitoring by volunteers is critical to our ability to assess the condition of imperiled ecosystem like Puget Sound ”

Guillemot Research Study

Clallam County

Island County

South Sound

Regional Coordinator

Sequim



Whidbey
Island

Nisqually
Reach Nature
Center

Camino Island



Guillemot Research Study

Island
County

70 Volunteers
25 Colonies
1,580 Hours
1,061 Guillemots

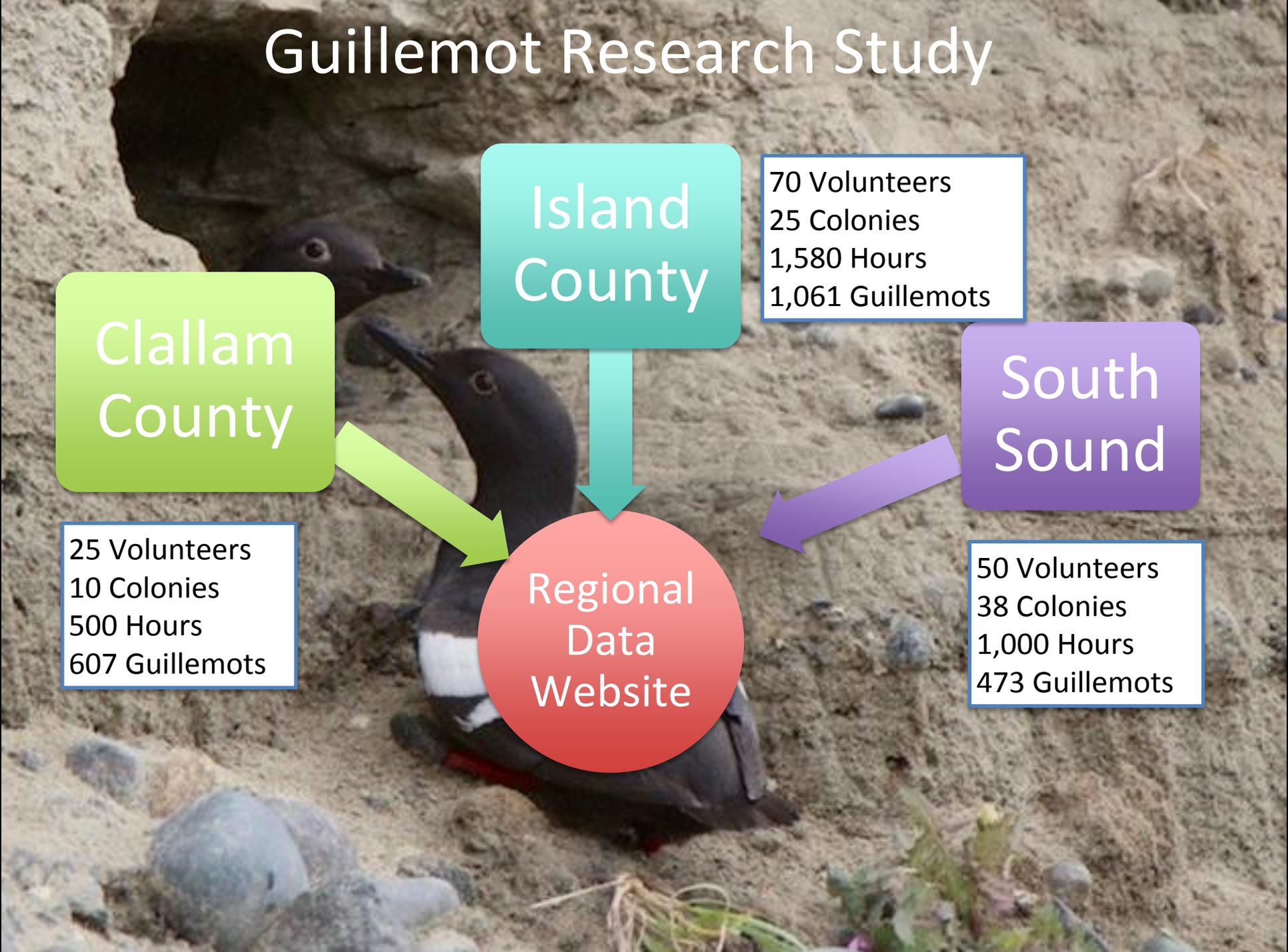
Clallam
County

25 Volunteers
10 Colonies
500 Hours
607 Guillemots

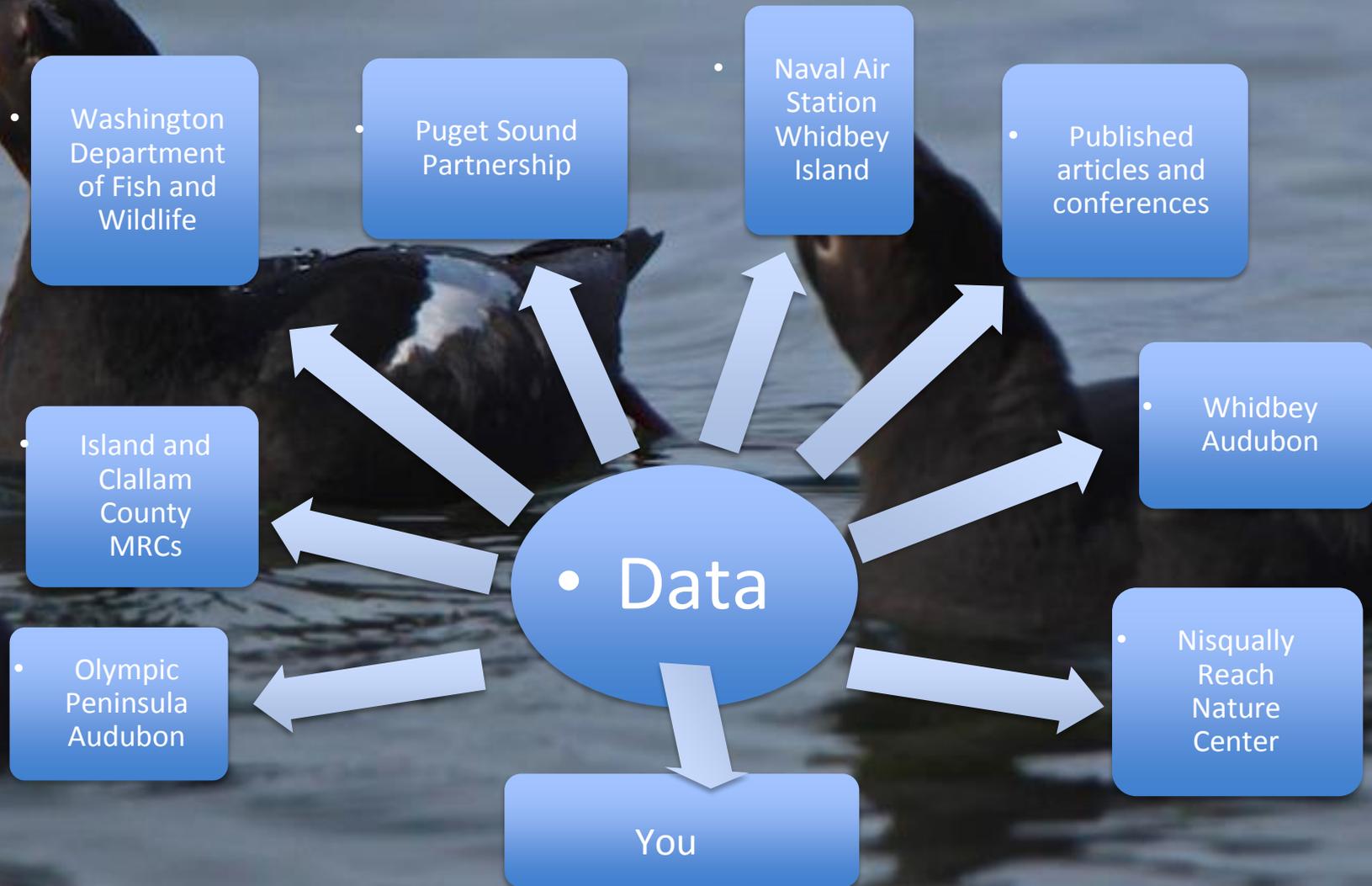
South
Sound

50 Volunteers
38 Colonies
1,000 Hours
473 Guillemots

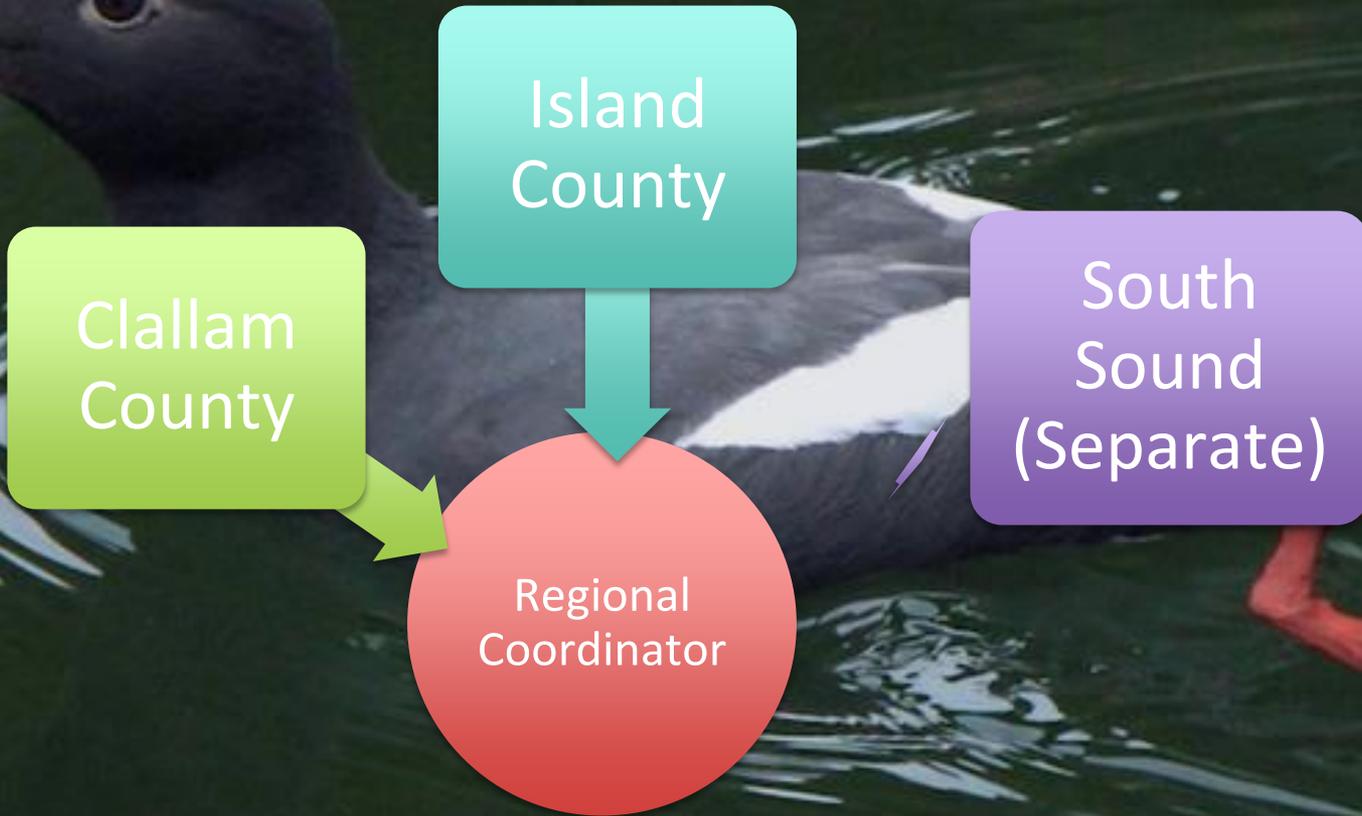
Regional
Data
Website



Data and Reports Distribution



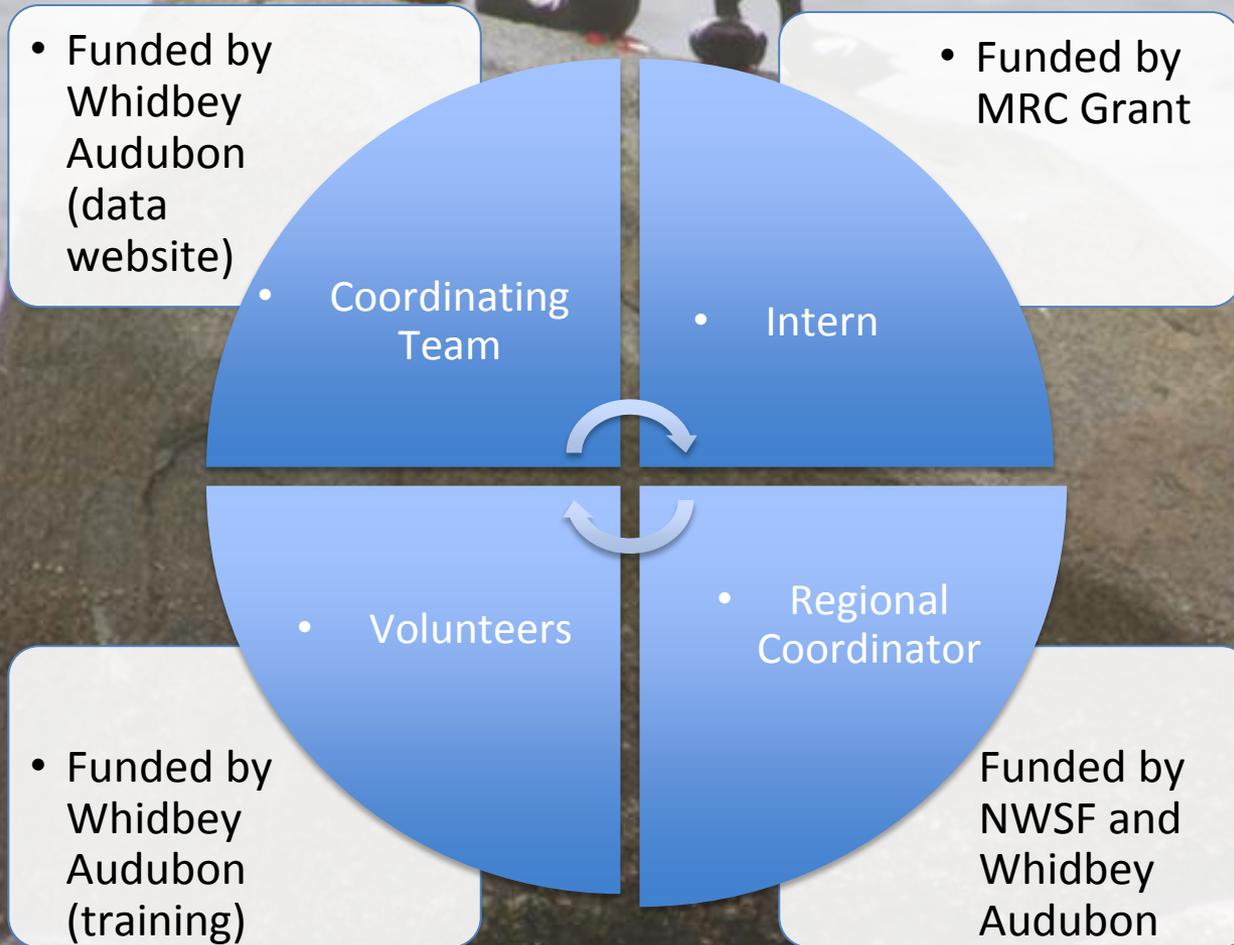
Guillemot Research Study



Funded by

NWSF through Opportunity fund
(Both Island County and Clallam County MRCs)
Whidbey Audubon Society
Olympic Peninsula Audubon Society

Whidbey Island Guillemot Survey



Guillemot Research Study

Clallam County

Island County

South Sound

Regional Coordinator



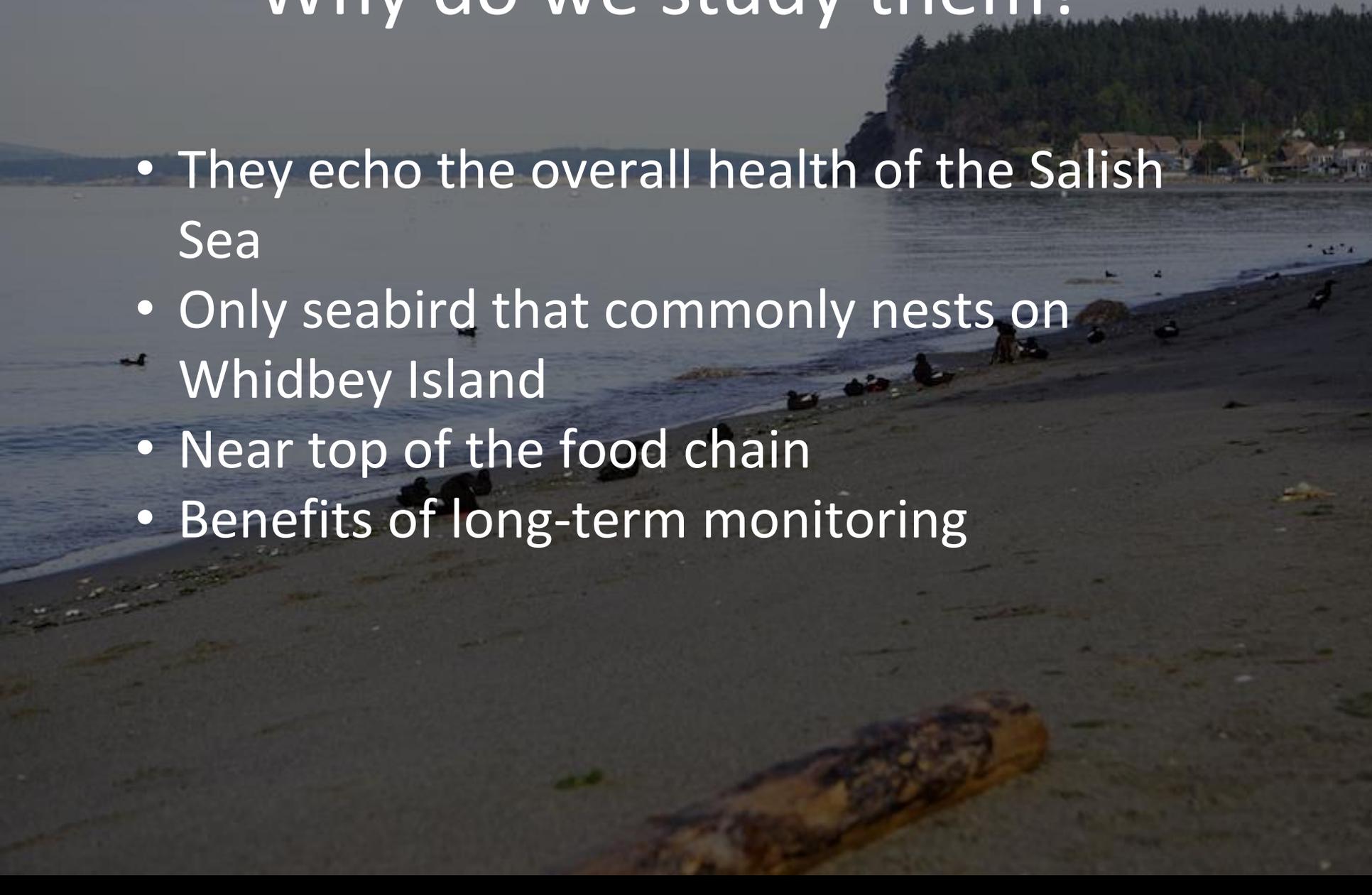
Guillemot Research Group

- Study the guillemots in the Salish Sea
- Collect breeding bird data
- Identify fish fed to young in burrows
- Outreach
- Promote bluff stewardship



Why do we study them?

- They echo the overall health of the Salish Sea
- Only seabird that commonly nests on Whidbey Island
- Near top of the food chain
- Benefits of long-term monitoring



Volunteer protocol

- 1X/Week for 1 hour
- Number of Guillemots
- Number and location of burrows
- Fish type being delivered to burrow

Gunnel



Sculpin



Other/Unknown

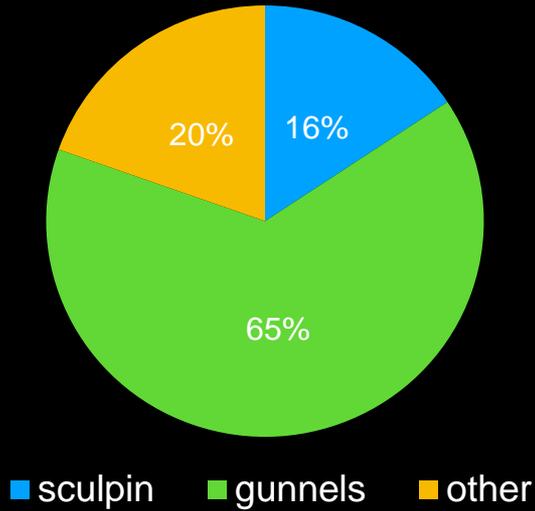


Sequim Area Surveys

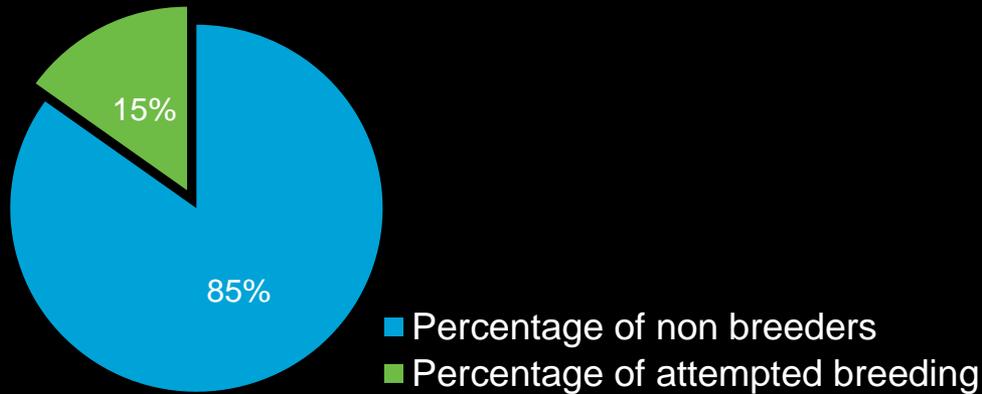


Sequim Summary 2017

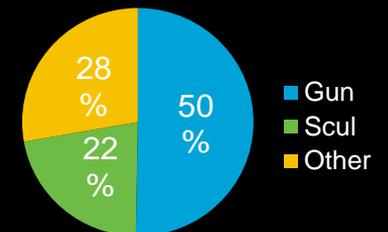
Prey composition percentage



Sequim 2017 Number of PIGU Adults and Burrows



2017 Whidbey prey composition

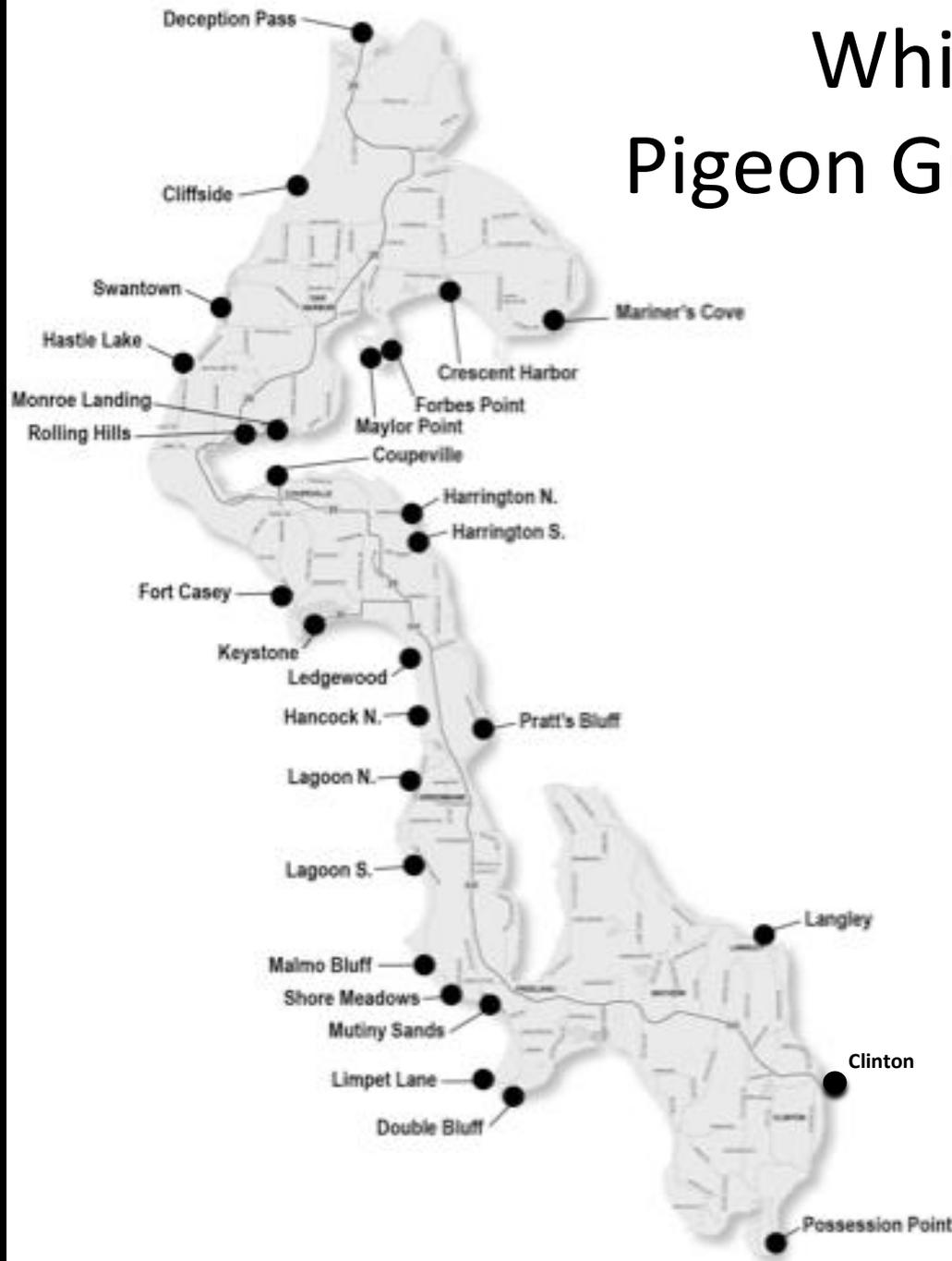


Camano Island Surveys

- Visited potential sites
- 1 confirmed colony
- Presentations to SWS, Pillchuck Audubon
- Camano resident email list
- Landowner permission to park @ colony

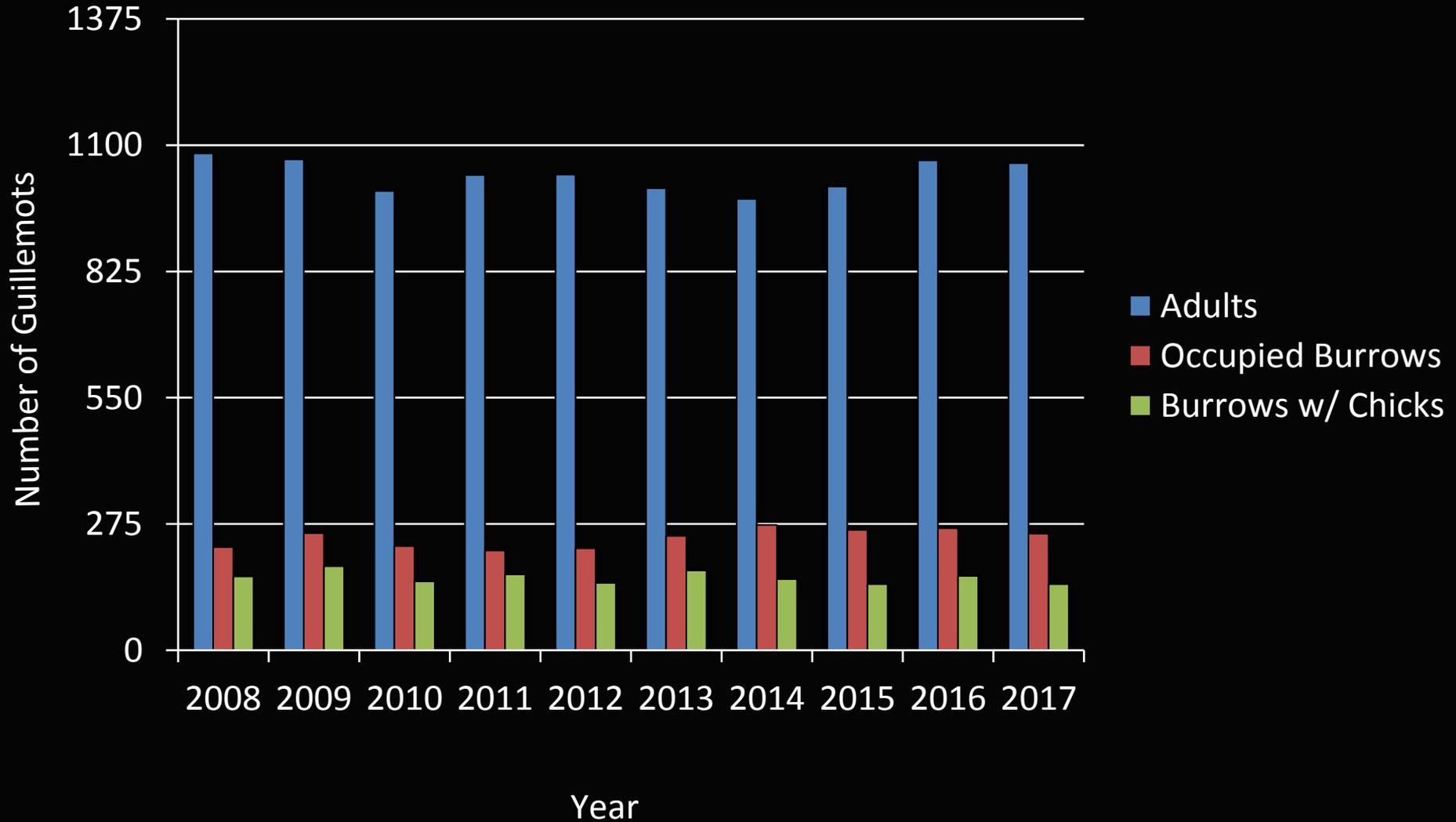


Whidbey Island Pigeon Guillemot Colonies

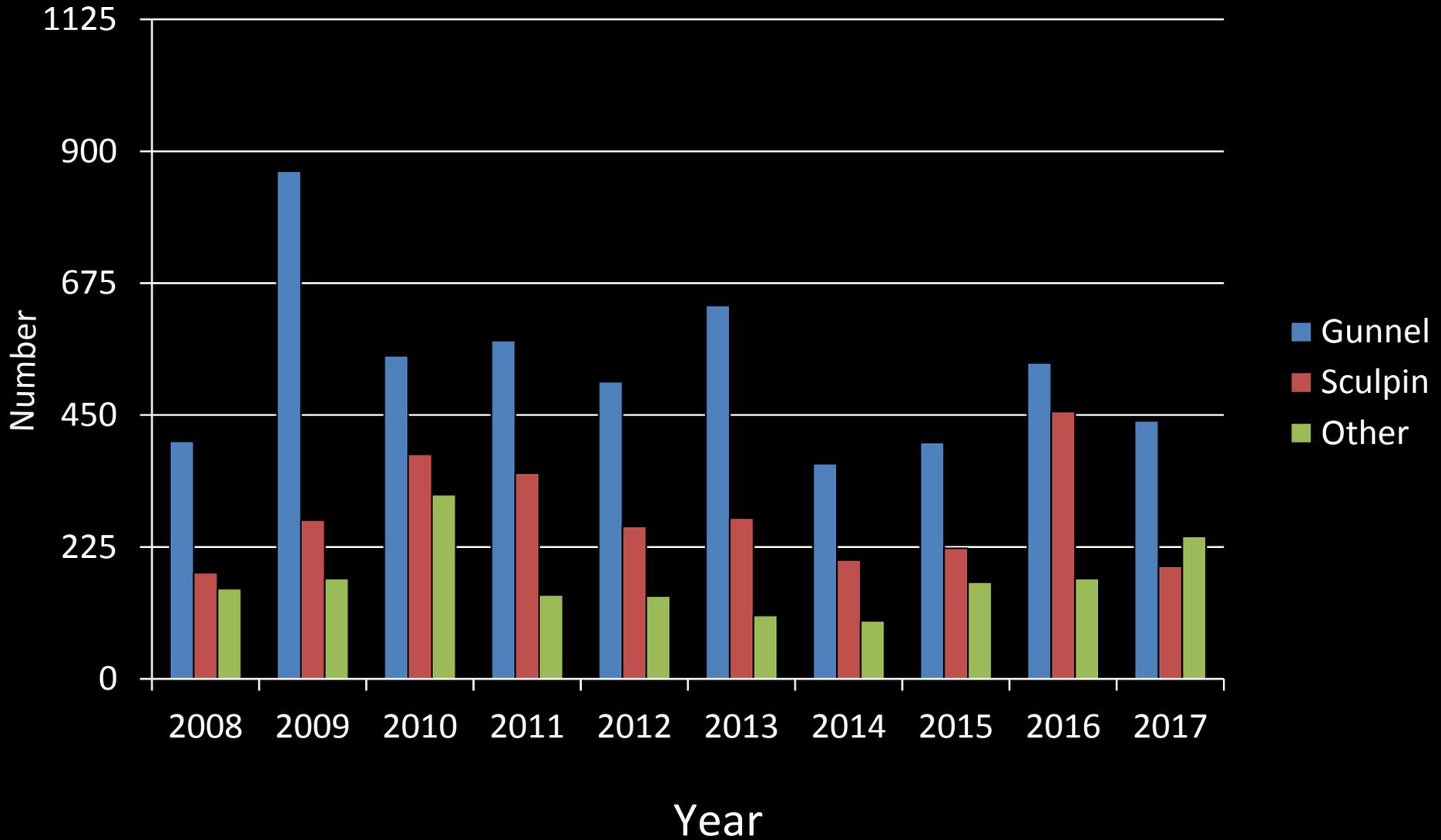


- 27 Colonies
- 70 Volunteers
- Started 2004

Number of Pigeon Guillemots and Burrows; 2008-2017



Prey Delivery to Pigeon Guillemot Chicks 2008-2016 (vol & intern data)

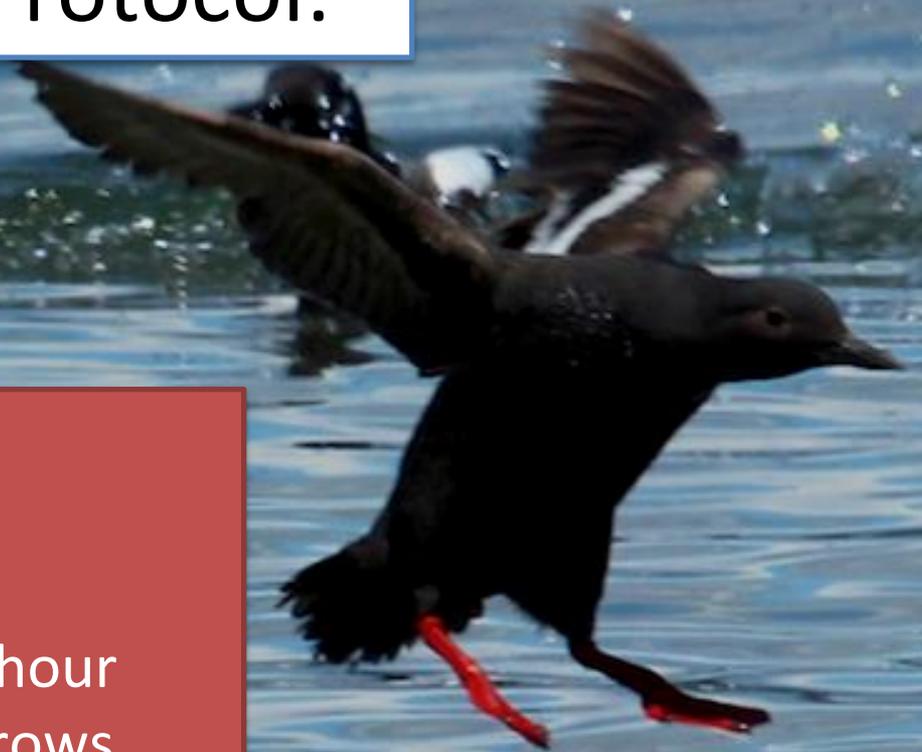


Colonies monitored by intern



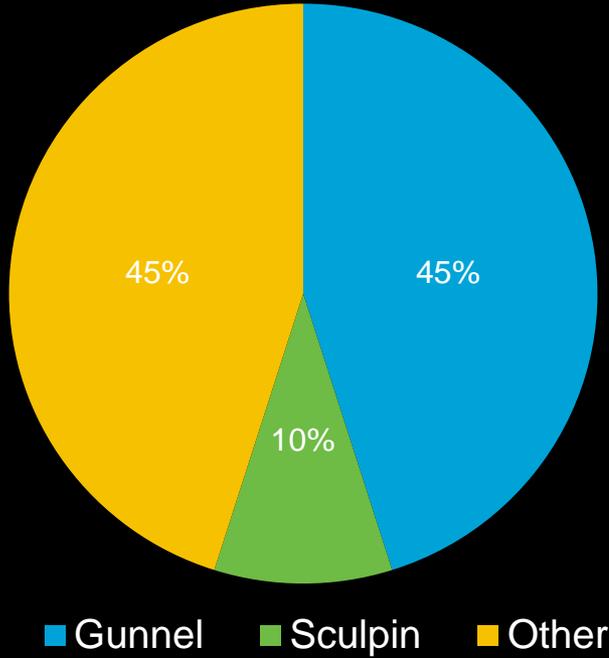
Intern Protocol:

- 4 Hours/Day
- Survey Every Day
- Identify Burrows
- Population Count Every .5 hour
- Fish Type Delivered to Burrows
- Fledging Success Interpretation

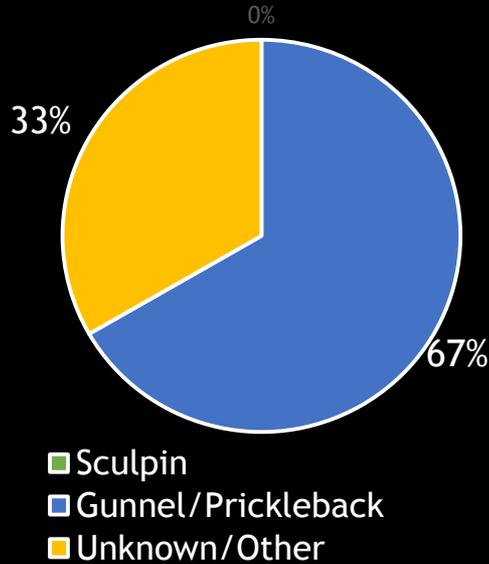


Rolling Hills/Cliffside Prey Composition

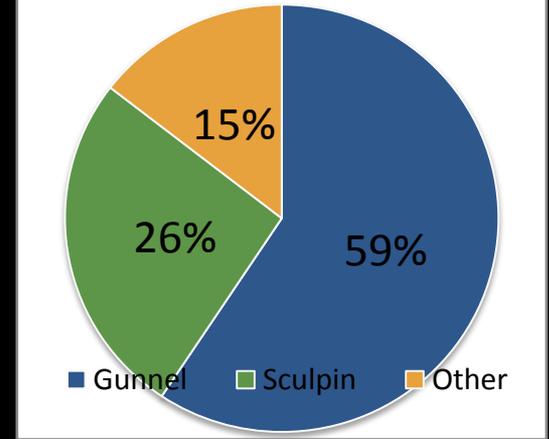
Rolling Hills 2017 Prey Composition



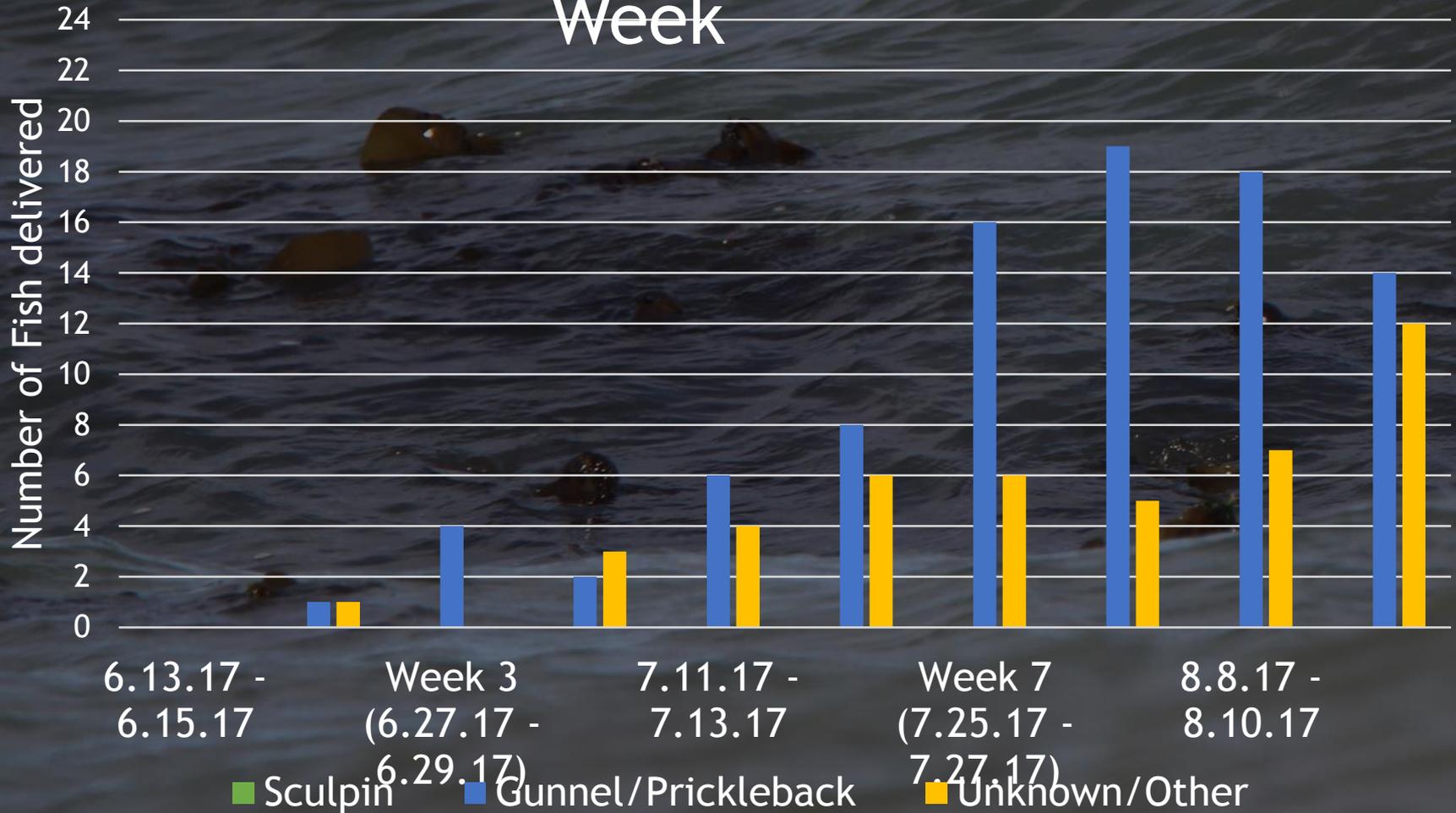
Cliffside 2017 Prey Delivered



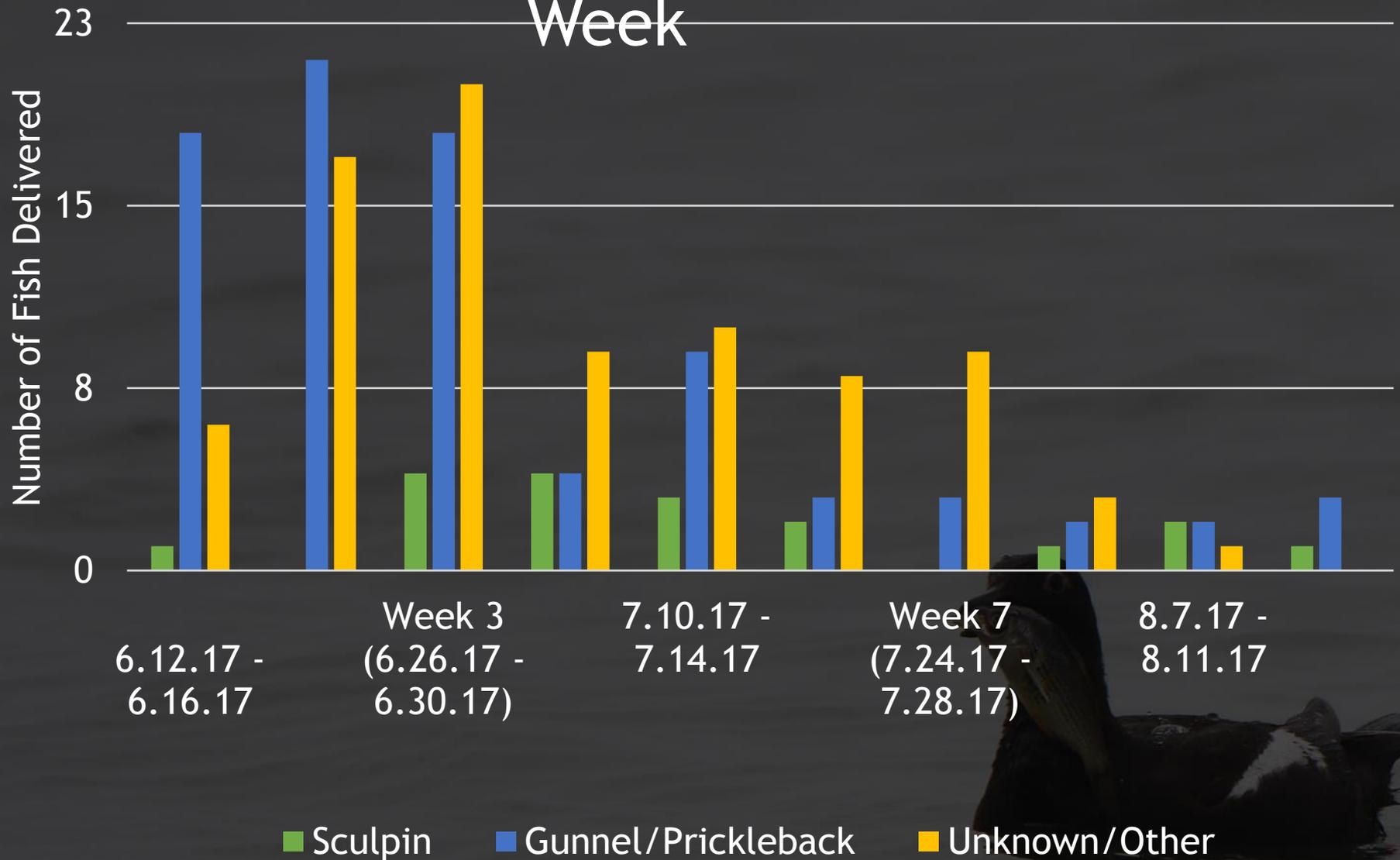
Rolling Hills 2012 Prey Composition



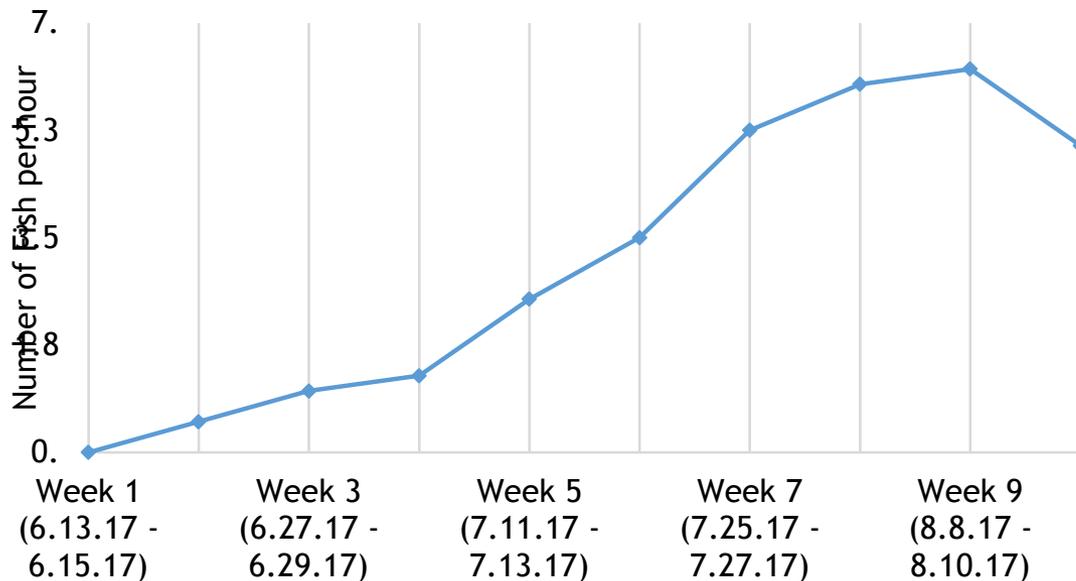
Cliffside 2017 Prey Delivered by Week



Rolling Hills 2017 Prey Delivered by Week

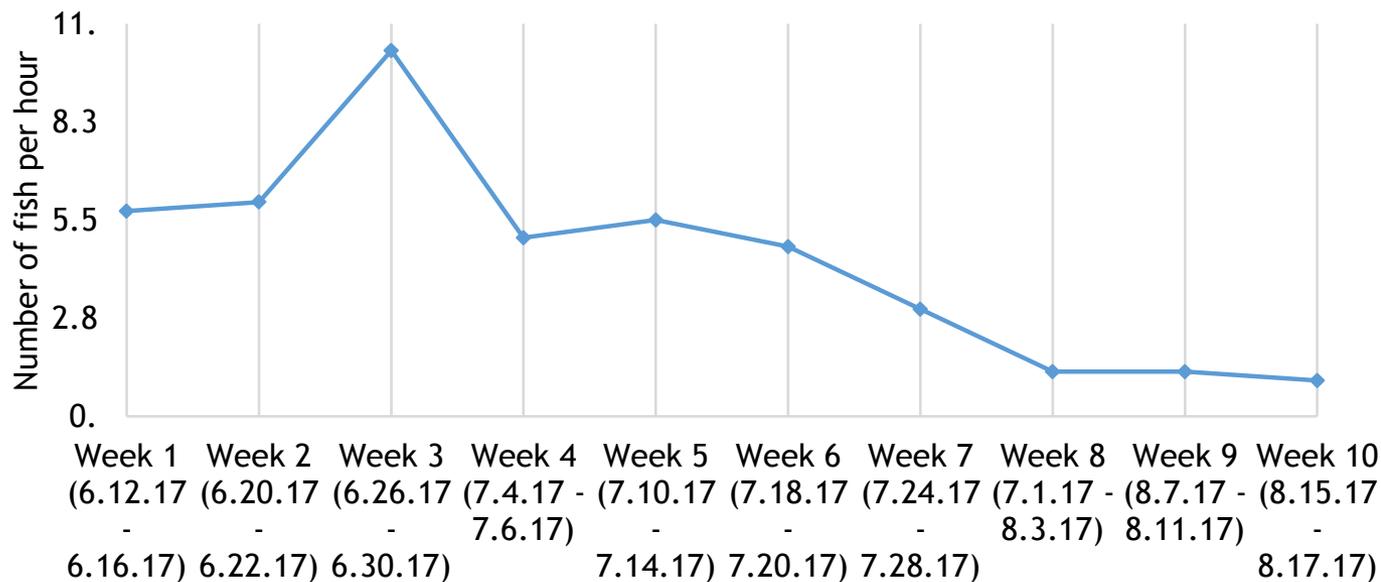


Rate of Fish Delivery at Cliffside



—●— Fish Deliveries

Rate of Fish Delivery at Rolling Hills



Intern Data Collected to Estimate Breeding Success Rolling Hills

Year	Estimated Fledging Success
2017	82%
2016, 2015, 2014	Colony not monitored by intern
2013	46%
2012	75%
2011	73%
2010	58%

Benefits and Partners

Benefits

- Data Distribution/Publication
- Citizen Education
- Beach Stewards
- Bluff Awareness
- Public Presentations and Outreach

Partners

- Northwest Straits Initiative
- Clallam County MRC
- Island County MRC
- Whidbey Audubon Society
- Sound Water Stewards
- Olympic Peninsula Audubon Society
- Nisqually Reach Nature Center
- Black Hills Audubon
- Dungeness NWR
- Anderson Island Parks
- Naval Air Station Whidbey Island
- Ott & Murphy Winery
- The EvergreenState College
- Numerous private land owners

Future Plans

- Continue long term survey as requested by the PSP marine bird working group
- PSP requested to expand to Jefferson and San Juan Counties
- New Question- presence/absence Camano Island
- Colony changes increase/decrease and what contributes to that
- Continue to educate community including beach property owners, educating about healthy nearshore environment

Open for questions

Guillemot Research Group

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