



CHUGACH
REGIONAL
RESOURCES
COMMISSION

Evaluating subsistence shellfish beaches for future clam garden projects

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CHUGACH REGIONAL RESOURCES COMMISSION: WHO ARE WE?

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- A consortium of seven Southcentral Alaskan Tribes in Prince William Sound and Lower Cook Inlet
- Natural resource management focus
- Own and operate the Alutiiq Pride Marine Institute in Seward AK



Port Graham



Chenega



Seward (Qutekcak)



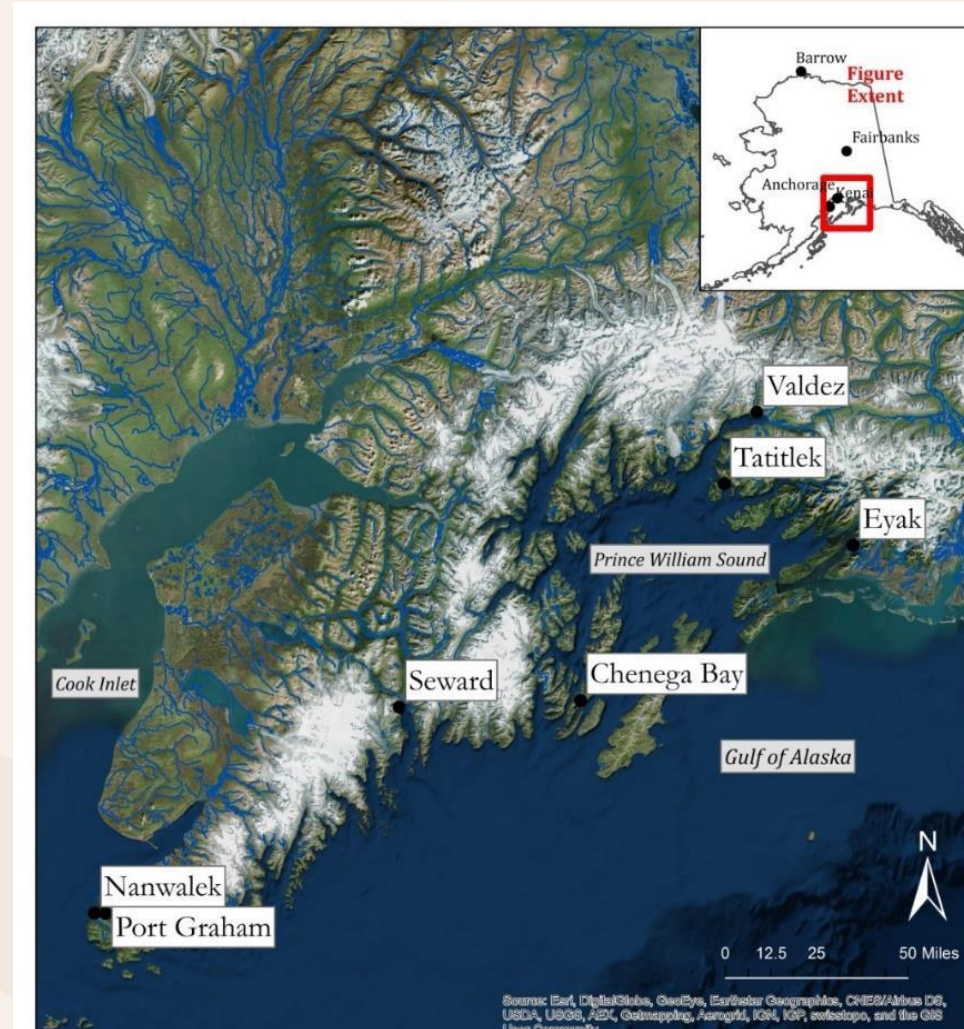
Valdez



Nanwalek



Tatitlek



Cordova (Eyak)

Shellfish conservation efforts

- 1. Broodstock collection
- 2. Spawn
- 3. Larval development
- 4. Juvenile development
- 5. Outplanting
- 6. Monitoring/surveys



New survey techniques

Legend



Bentnose Macoma



Beyond Dicks

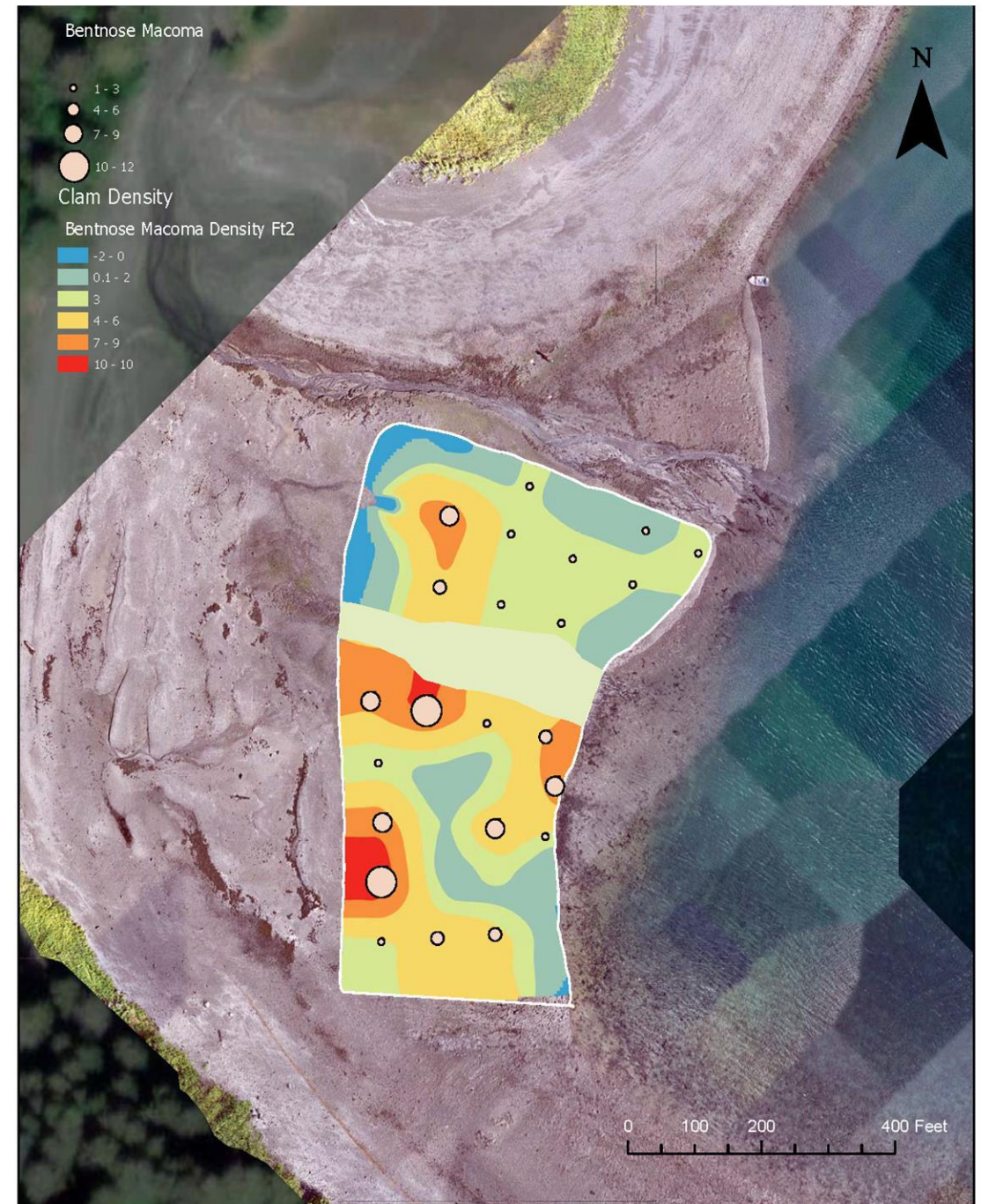


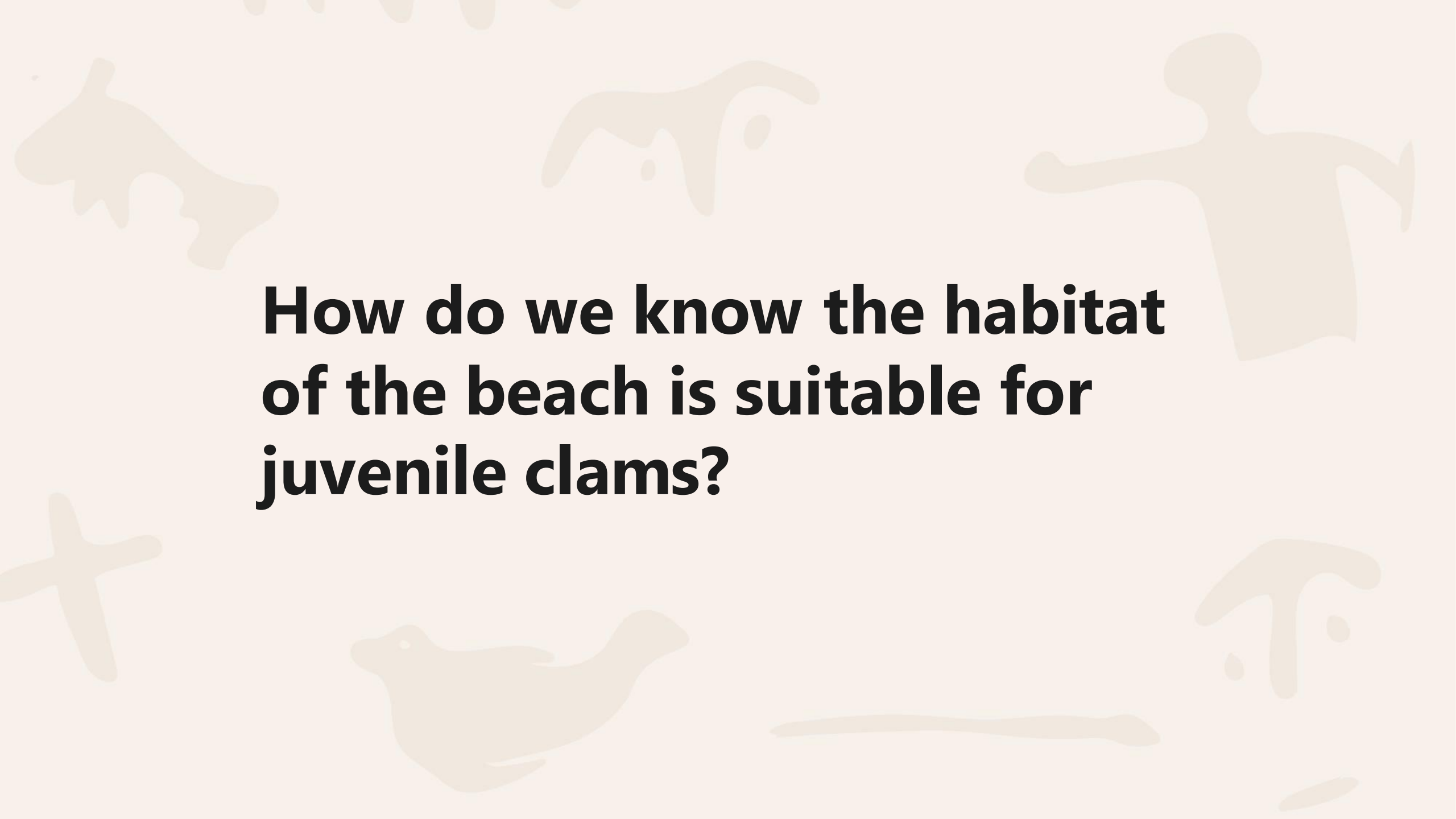
PACIFIC SHELLFISH INSTITUTE



Clam surveys

- Population estimate
- Habitat suitability
- Management recommendations



The background features several faint, light-colored silhouettes of people and animals. On the left, there is a silhouette of a dog. In the top center, a person is shown in a dynamic pose, possibly jumping or dancing. On the right, a larger silhouette of a person stands with arms outstretched. At the bottom, there are silhouettes of a seal, a long horizontal shape, and another person in a dynamic pose.

**How do we know the habitat
of the beach is suitable for
juvenile clams?**

What are traditional clam gardens?

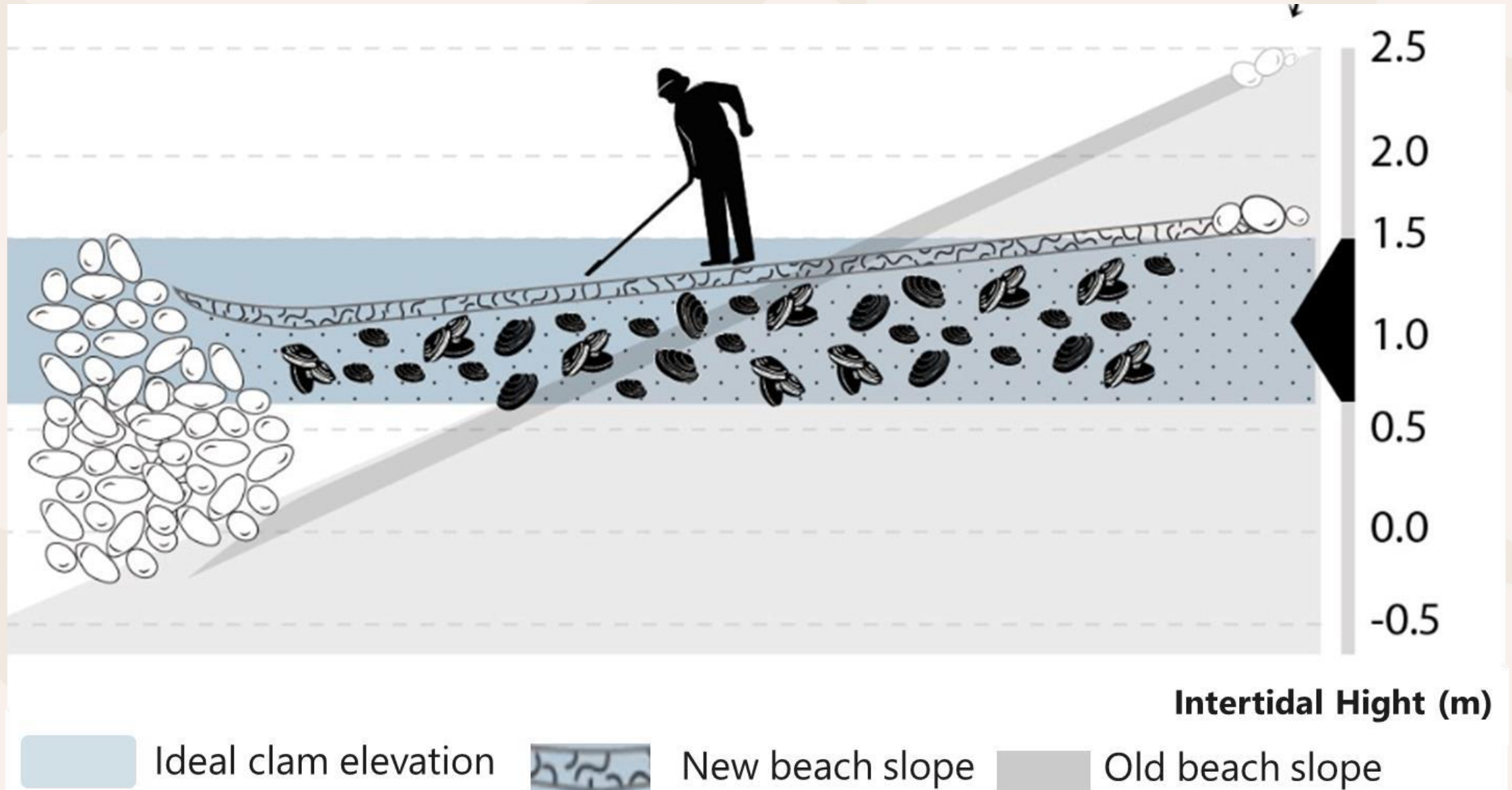


Keith Holmes



John Harper

How do they work?



Groesbeck et. al, 2014

Making it community specific

Community Workshops

Identify historical subsistence shellfish beaches

Understand importance of beach accessibility to community

Identify bivalve species of interests

Understand local biotoxin history and concerns

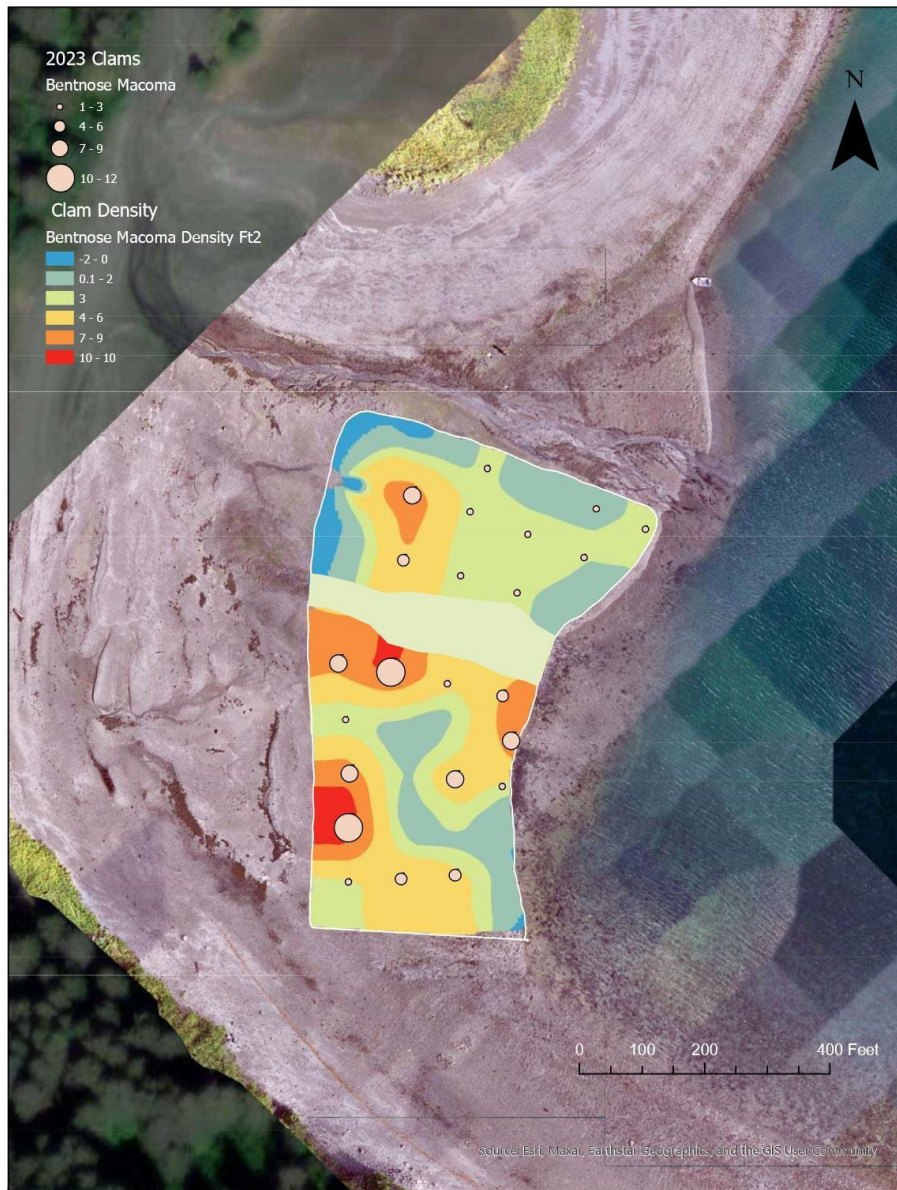
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Beach Surveys



Comprehensive plan to establish a clam garden

Comprehensive clam garden report



1. Population data for shellfish species

2. Sustainable shellfish harvest recommendations

3. Species specific population heat maps

4. Habitat suitability analysis for the beach

5. Comprehensive plan for establishing a clam garden for each participating community

- Permits
- Sourcing rocks
- Labor for wall
- Wall maintenance
- Predator control



Thank you

<http://www.crrcalaska.org/>



<http://www.alutiiqprideak.org/>

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