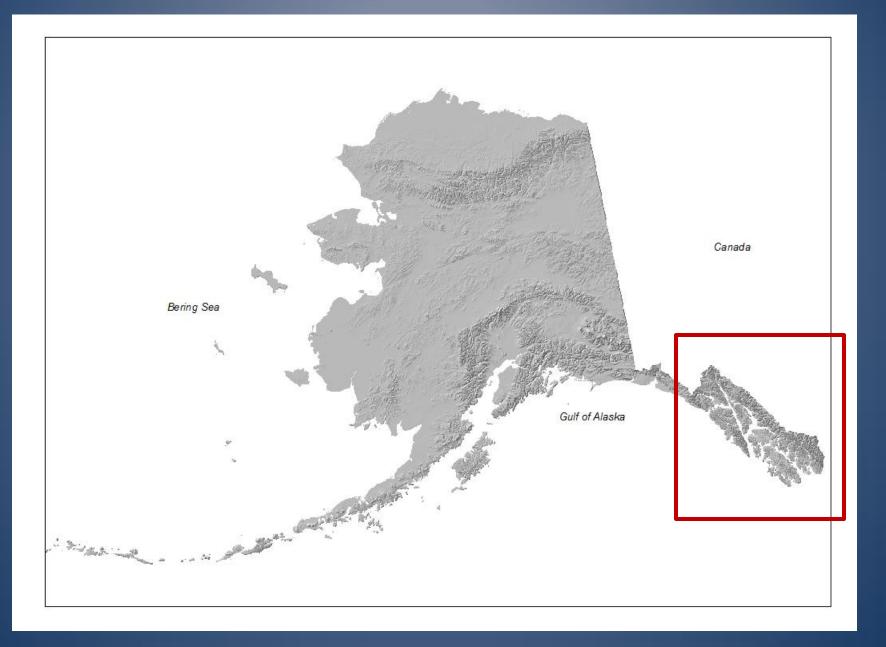


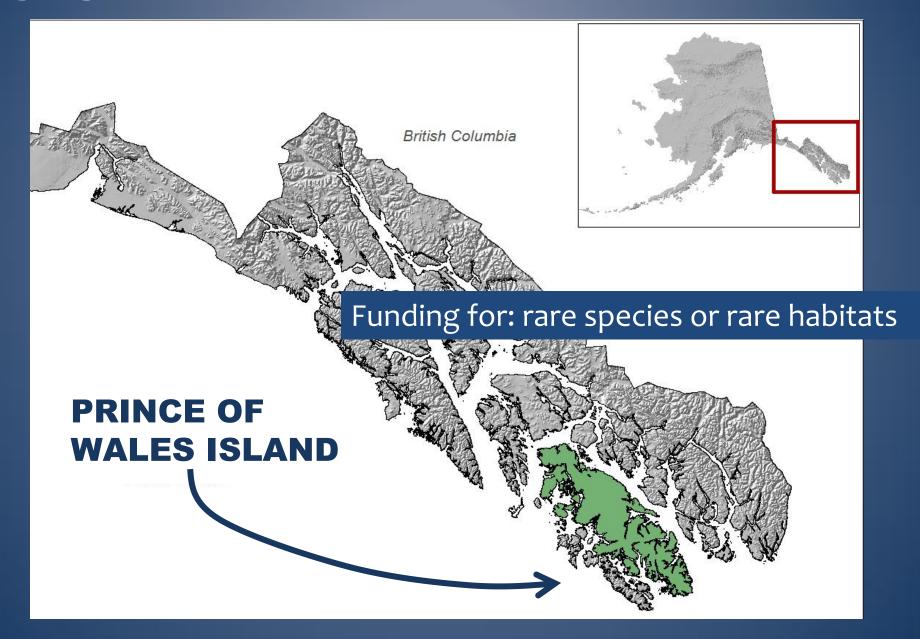
Current research and preliminary findings



STUDY AREA

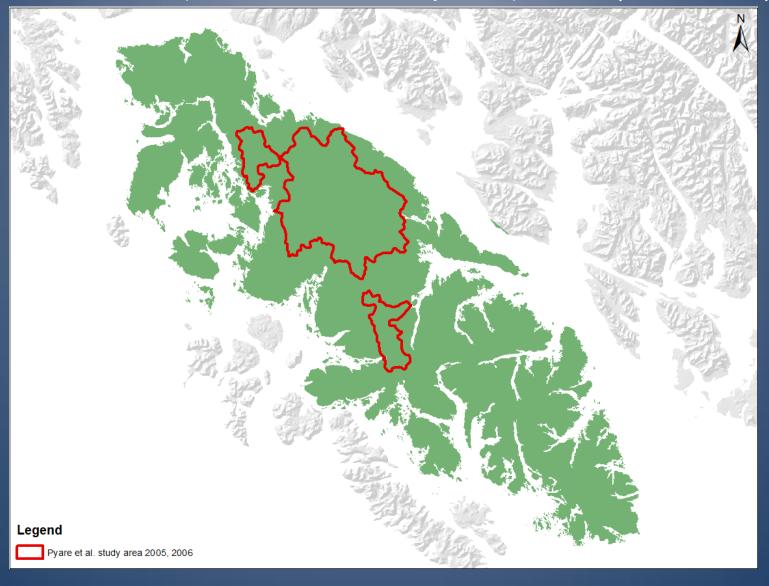


STUDY AREA

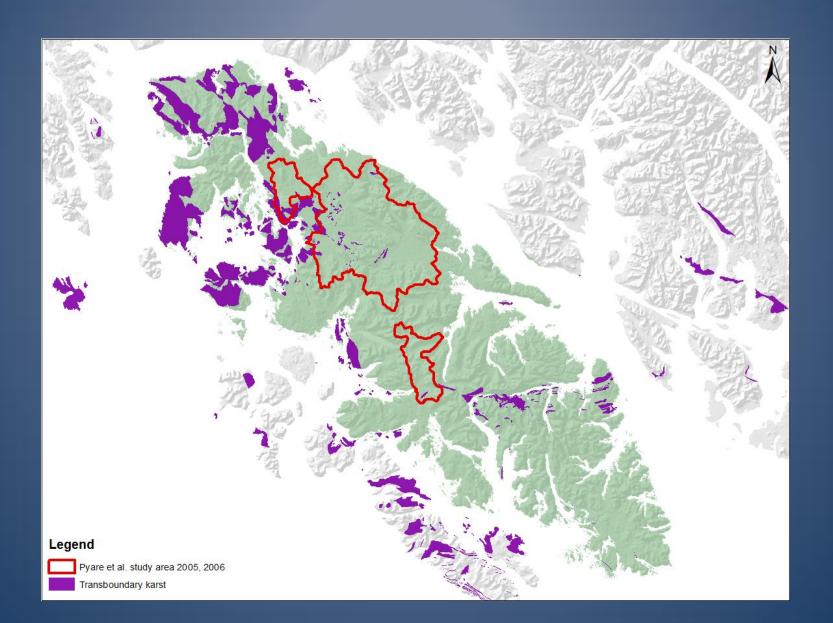


PREVIOUS WORK

Pyare et al. 2013 – focused on central part of island (2005, 2006)



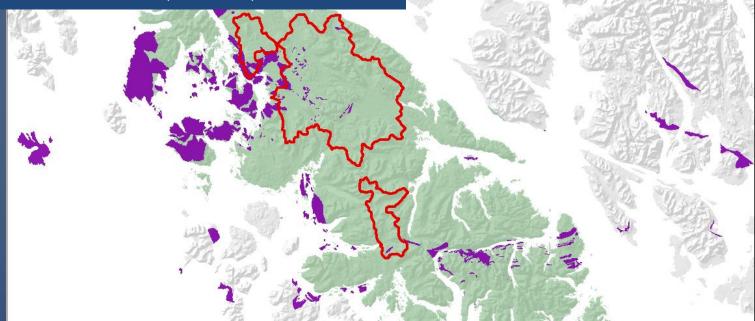
KARST TOPOGRAPHY



KARST TOPOGRAPHY

Karst topography is a landscape formed from the dissolution of soluble rocks such as limestone, dolomite, and gypsum. It is characterized by underground drainage systems with sinkholes, dolines, and caves.

- Rare habitat form
- Highly productive
- High logging pressure
- Old growth forest



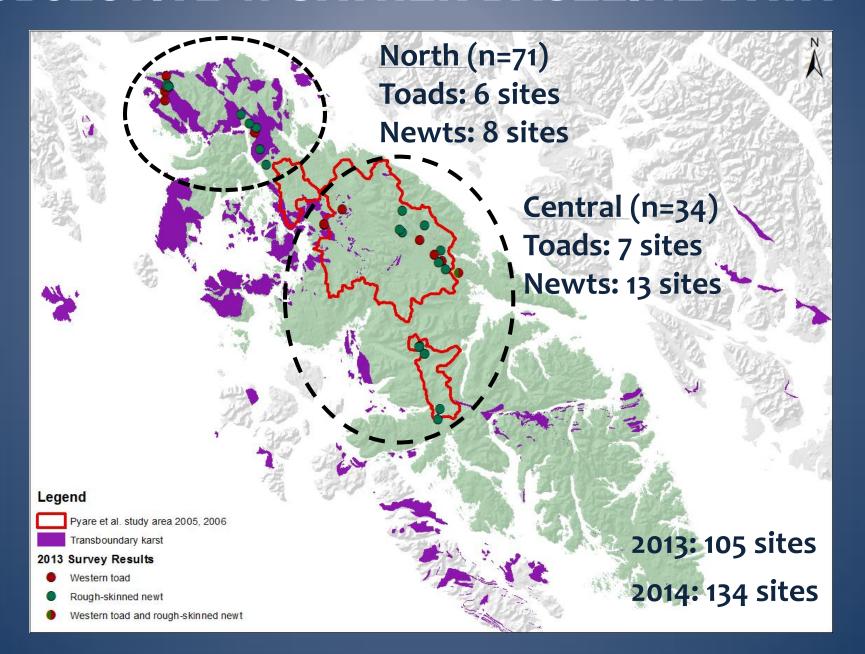
Funding for: rare species or rare habitats – went with amphibians in karst



OBJECTIVES

- Gather baseline data for: amphibian distribution, species composition, and habitat use on POW
- 2. Document continued presence or absence of amphibians in non-karst habitats re-survey Pyare et al sites.
- 3. Compare amphibian presence in karst vs. non-karst habitats



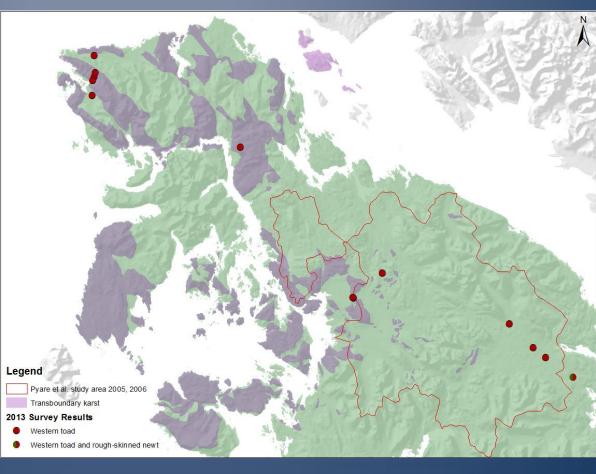


13 sites with western boreal toads – **12**%

Tadpoles = 2 sites

Metamorphs = 1 site





Habitat types:

lacustrine littoral (emergent – aquatic bed)

riverine lower perennial (emergent – aquatic bed)

palustrine (emergent – aquatic bed)

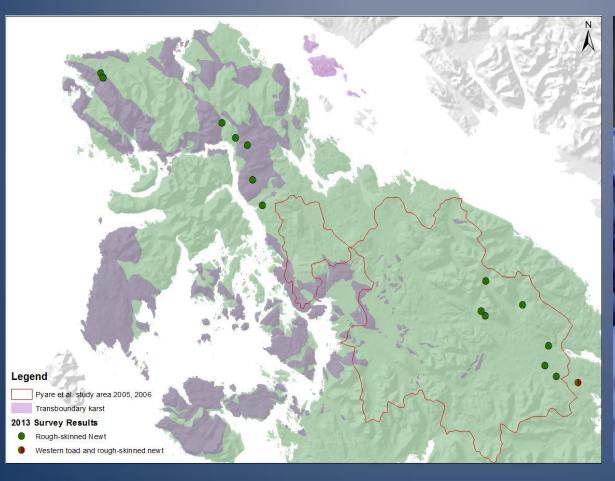
needleleaf forest peatland

Water temperature: 13.3 – 18.5°C

pH: 5.4 – 7.3



14 sites with rough-skinned newts – **20**%





Habitat types:

beaver ponds and sloughs

lacustrine littoral (emergent – aquatic bed)

palustrine (emergent – aquatic bed)

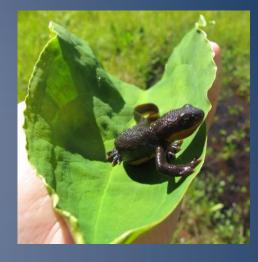
needleleaf forest peatland

herbaceous peatland

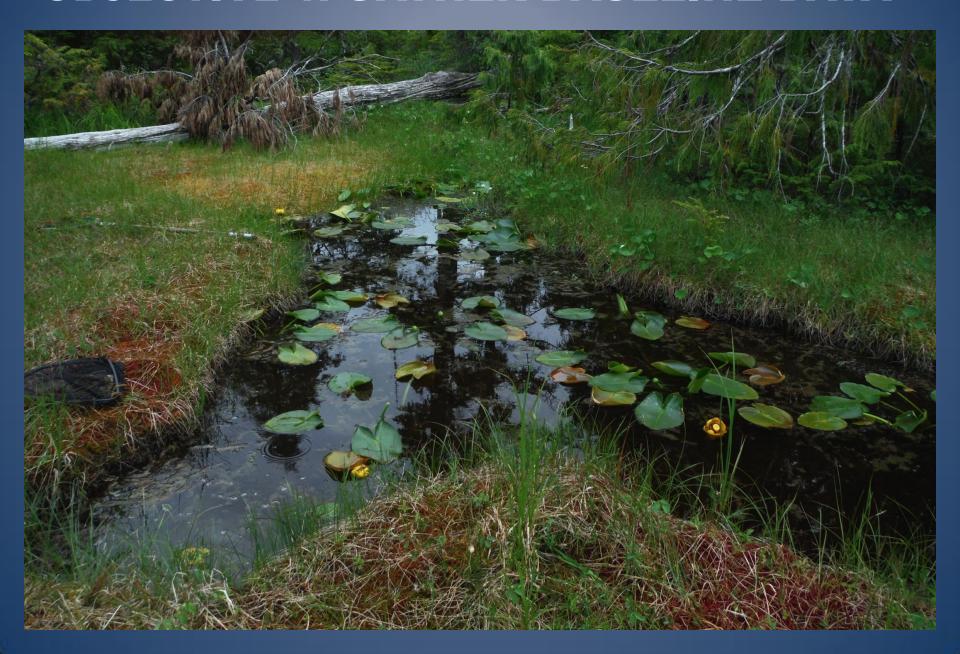
Water temperature: 14.4 – 24.9°C

pH: 5.4 - 7.3

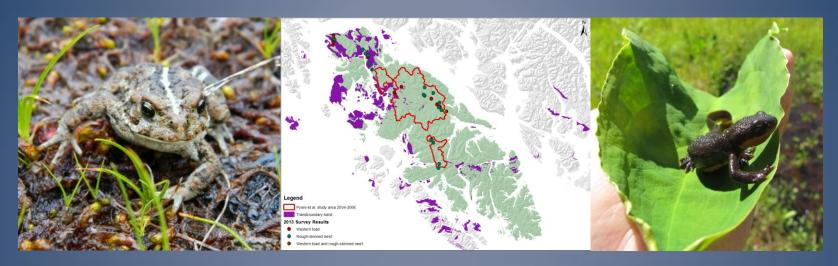








BASELINE CONCLUSIONS



Amphibians present across the island

Habitat preferences:

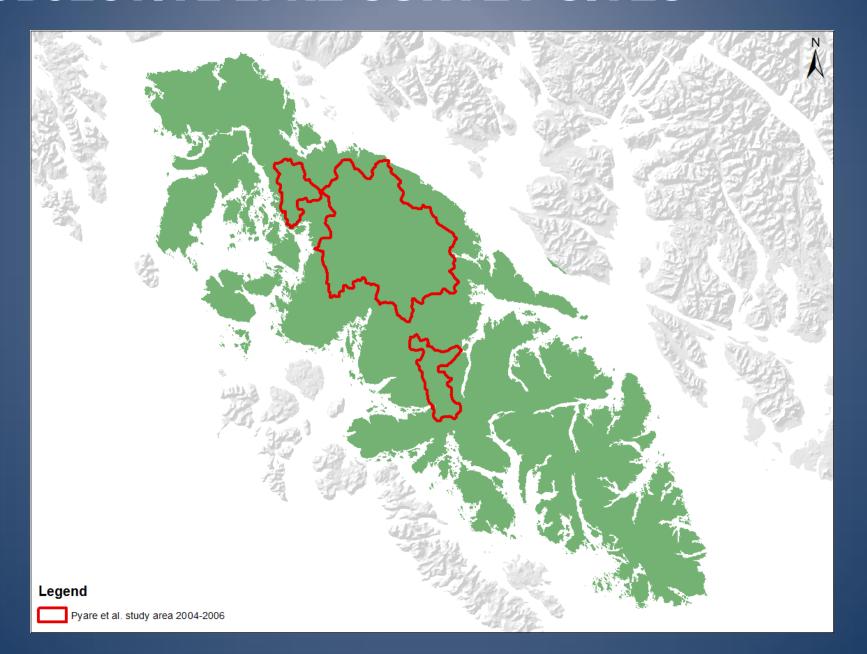
Western Toads – emergent aquatic beds

Rough-skinned newts – peatlands

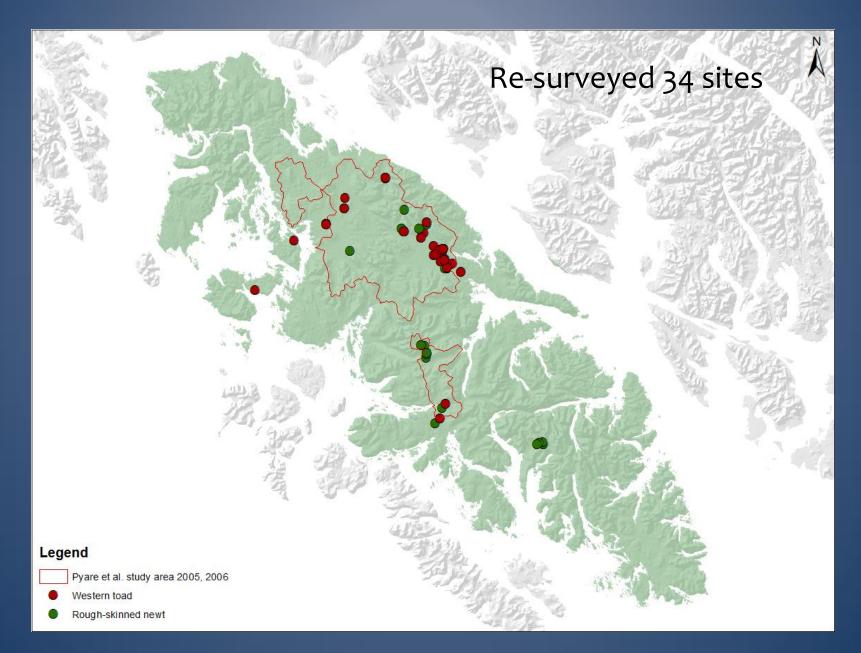




OBJECTIVE 2: RE-SURVEY SITES



OBJECTIVE 2: RE-SURVEY SITES



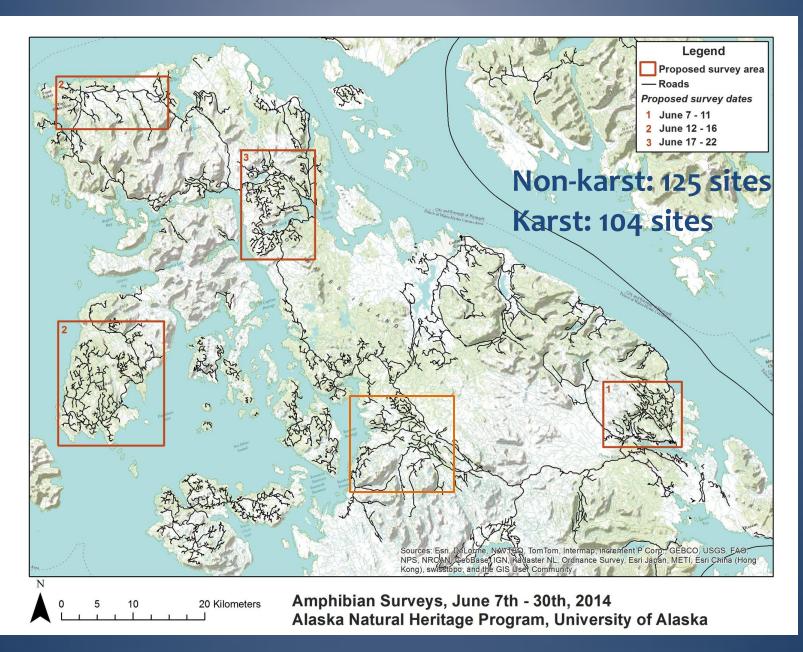
OBJECTIVE 2: RE-SURVEY SITES

Western toad: present in **32**% of re-surveyed sites

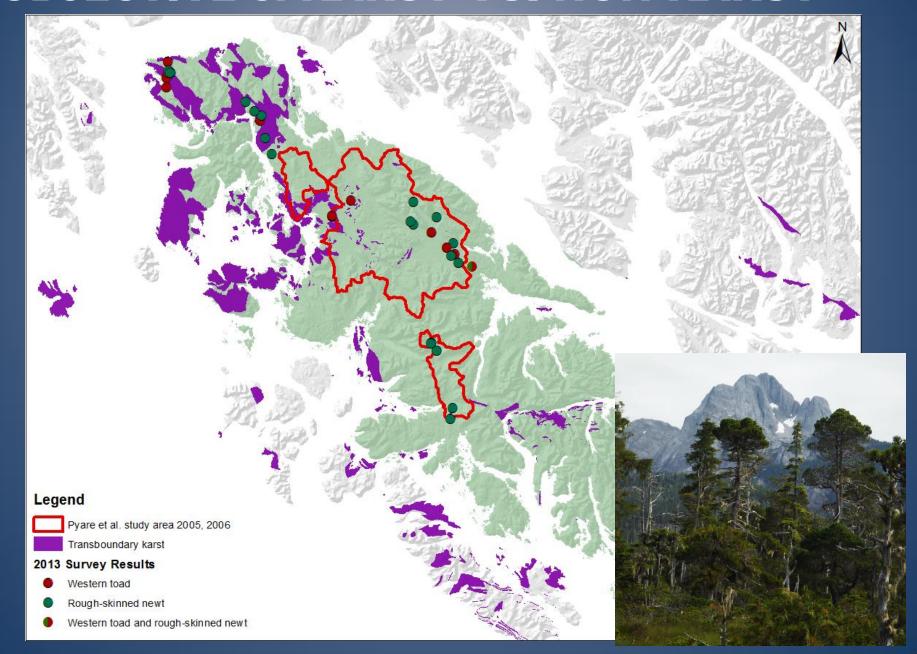
Rough-skinned newt: present in **71**% of re-surveyed sites



OBJECTIVE 3: KARST VS. NON-KARST



OBJECTIVE 3: KARST VS. NON-KARST

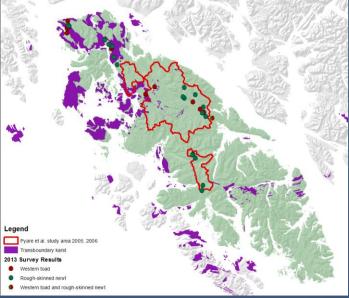


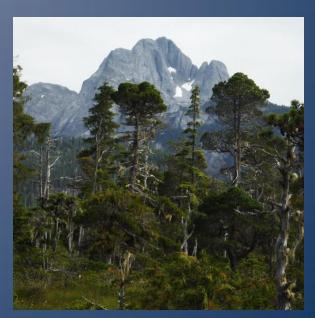
OBJECTIVE 3: KARST VS. NON-KARST

Next Steps:

- 1. Analyze presence/occupancy data 2013, 2014
- 2. Compare pH, conductivity and salinity across sites
- 3. Describe habitats: karst vs. non-karst







GENERAL CONCLUSIONS

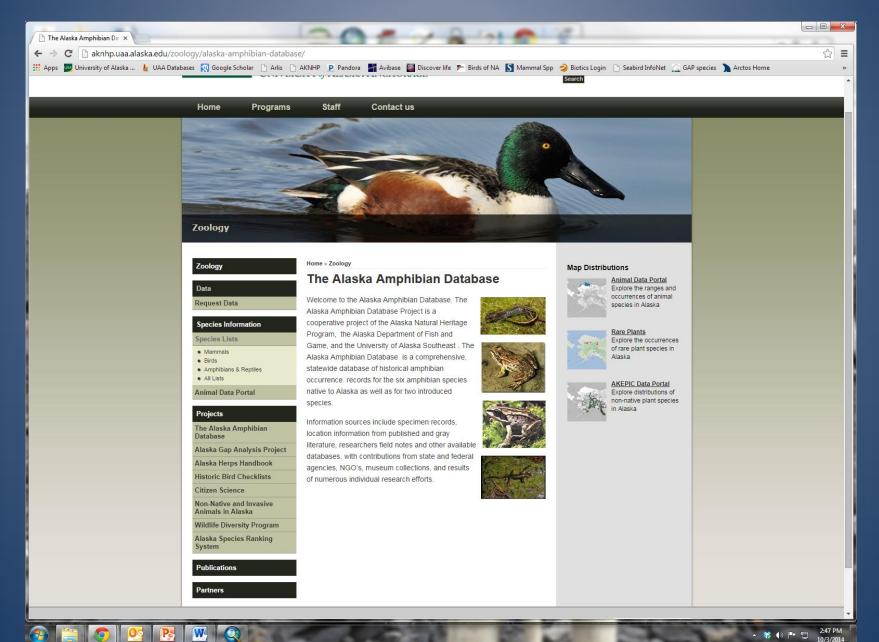
Amphibians widespread across Prince of Wales Island

Amphibian presence at sites varies across years

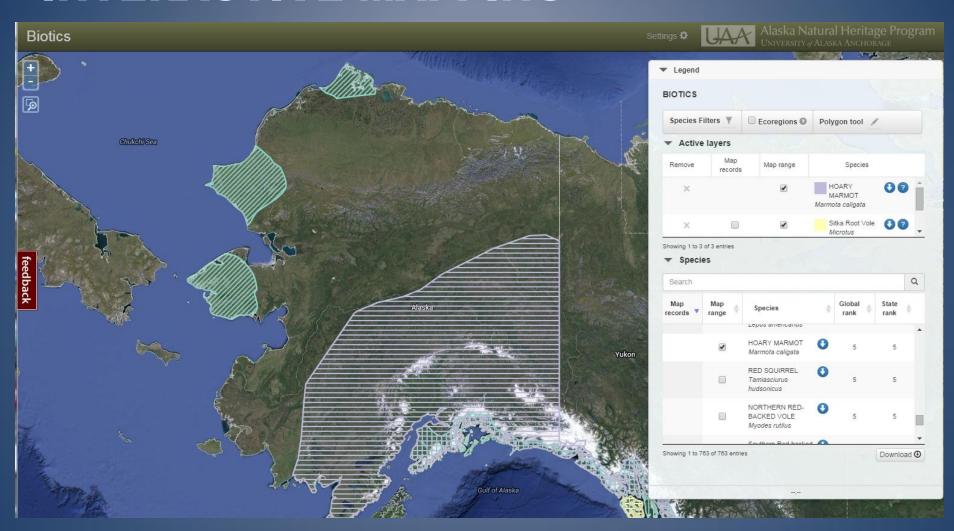
Amphibians are present in karst-influenced habitats



FUTURE STEPS: SERVING THESE DATA



INTERACTIVE MAPPING



http://aknhp.uaa.alaska.edu/maps-js/integrated-map/biotics.php

