

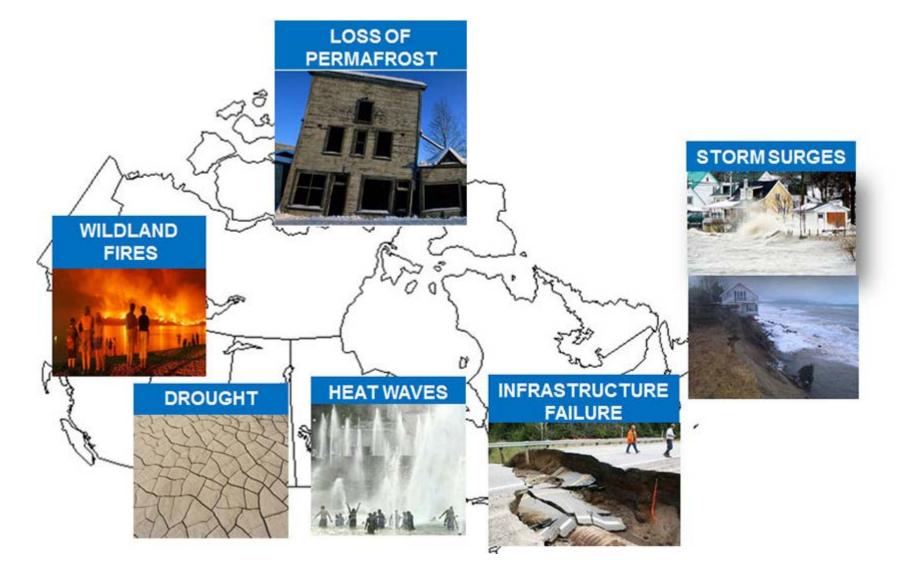
# Local Environmental Observer Network: the eyes, ears and voice of environmental change

Marine Biotoxin Workshop, North Vancouver By Linda Pillsworth, Environmental Public Health Services October 25, 2016



#### Canada is already warmer, wetter & stormier

www.fnha.ca









#### Longer-term impacts of a changing climate in Canada





### Local Environmental Observer (LEO) Network

- Current challenges:
  - Monitoring changes in;
    - Weather
    - Landscape
    - Biota
    - Public health
  - Communicating with other regions



- LEO's Purpose:
  - to increase understanding about climate and other drivers of change & to develop appropriate adaptation strategies.
- How:
  - applies traditional knowledge, western science & modern technology to achieve a robust and effective environmental health surveillance system



#### Alaska Native Tribal Health Consortium (ANTHC)

#### Center for Climate & Health

- Assessments
- Technical assistance
- Training through 7 Generations
- Assistance monitoring environmental impacts

#### One Health Group

 Surveillance on emerging environmental, wildlife & public health threats



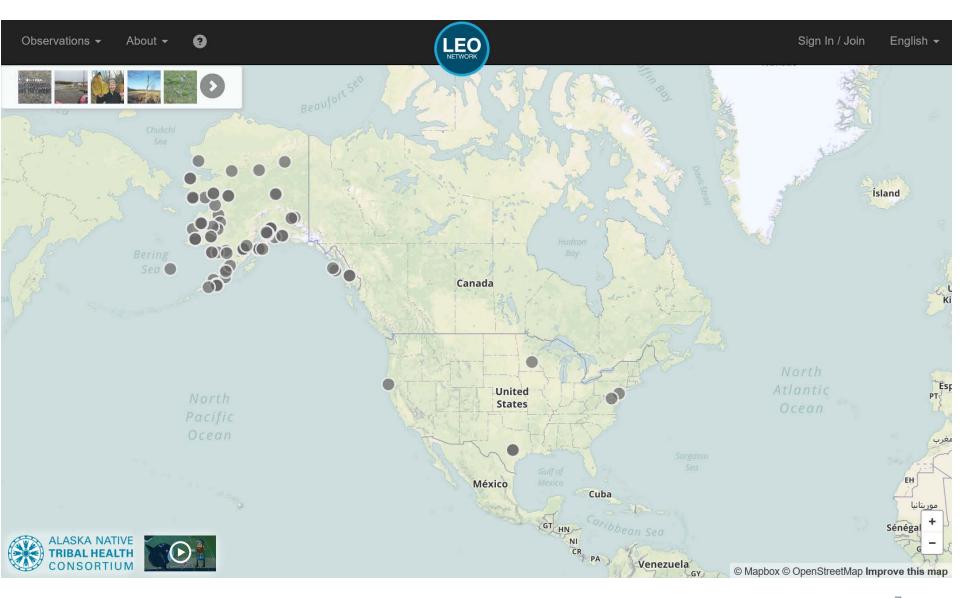
#### **LEO**

- Started 2012 by Mike Brubaker & team
- Website
- Mobile App LEO Reporter

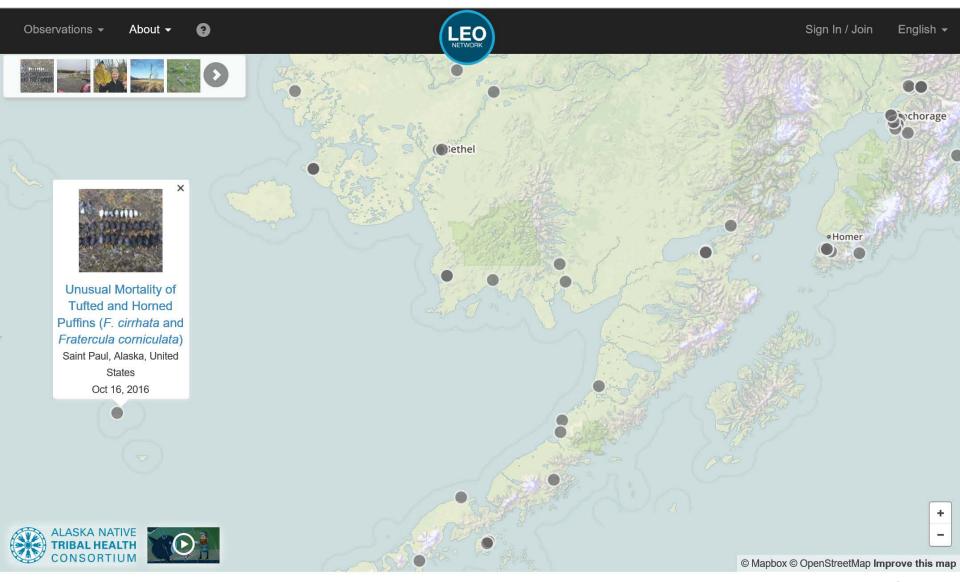














Observations ▼

About ▼



LEO NETWORK

Sign In / Join

English -

Explore / Observations / Unusual Mortality of Tufted and Horned Punins (F. cirrhata and Fratercula corniculata)



**Observation:** Two puffin juveniles (one horned, one tufted) were brought to the Ecosystem Conservation Office at the Aleut Community of St. Paul Island on October 8-9th. The following week, locals began observing dead or "sick and dying" puffins of various plummages and beak variations from dull to bright (presumably representing various-aged individuals). ECO staff counted 42+ dead birds and 6+ sick or dying birds

#### Contributors



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St. Paul Island United...

Co-Director
Ecosystem
Conservation Office
Aleut Community of
St. Paul Island

# Observer

Paul Melovidov
Saint Paul Alaska, Unit...

Aleut Community of St. Paul Island

#### Observer



Aaron Lestenkof Aleut Community of...

#### Observer



Pamela Lestenkof St Paul Island United...











Raspberries

Year Of The



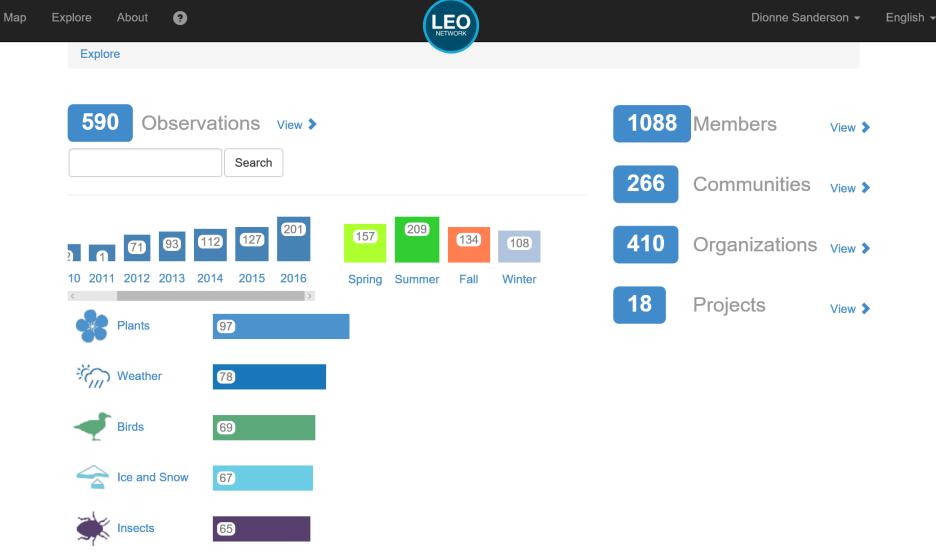
English -

# How to join...

LEO NETWORK 0 Sign In / Join Observations -About ▼ Explore / Members / Mike Brubaker Contributions View on Map Consultant Observer Observer Great Horned Owl Hot Sun Great Berry Mike Brubaker (Bubo virginianus) Picking Goodnews Bay, Mortality Alaska, United States Anchorage, Alaska, Anchorage Alaska, United States Seldovia Village, SEP 5, 2016 **United States** Member since 2011 Alaska, United States JUL 31, 2016 :Km OCT 7, 2016 Community Environment & Alaska Native Tribal Health Consortium - ANTHC Observer Consultant Observer One Health Group

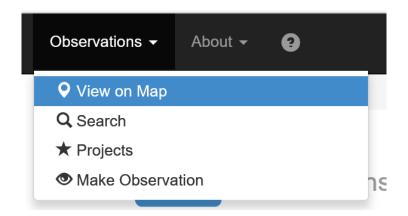
High Lake







#### Make an observation...

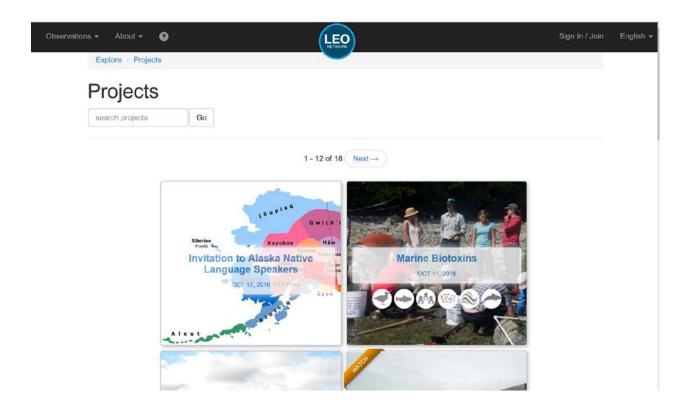






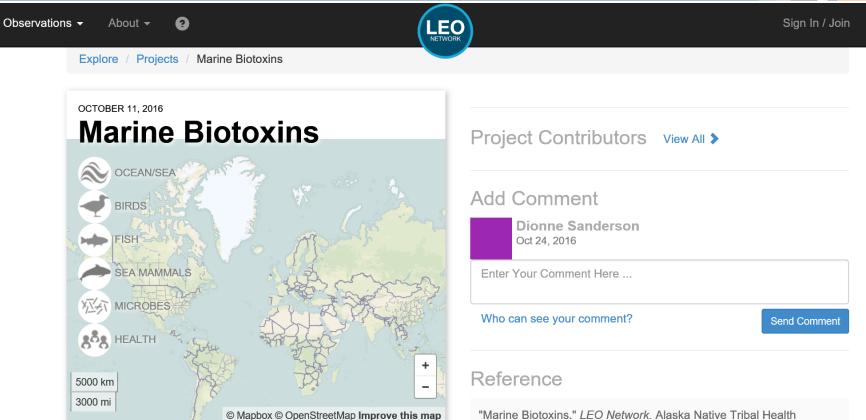
# **Projects**

- Bundling of similar observations
- Community of Practice
- Can be with own organization, communities, other agencies





English -



This project is intended to support a planned biotoxin initiative in British Columbia, initiated by a workshop on October 24-25, 2016. The objective described in the meeting invitation is "to explore the potential sources of data on environmental factors, wildlife mortality events, or unusual findings that may be associated with marine biotoxins or other hazards of public health relevance." This LEO Project enables the recording and

"Marine Biotoxins." *LEO Network*. Alaska Native Tribal Health Consortium, Observed 11 October 2016. Web. Accessed 24 October 2016.



# LEO Reporter Mobile App





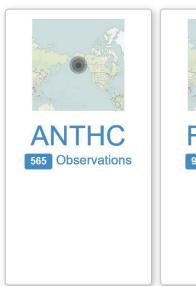




#### Hubs

- Connecting observers with topic experts
- Hosting focus groups, webinars, publishing regional newsletters or developing special projects

#### Hubs











## **BC LEO Hub**

- Funding:
  - Commission for Environmental Cooperation (CEC)
  - FNHA



ANTHC



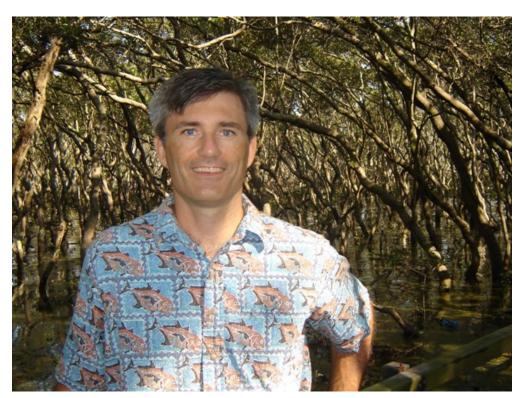






#### Hub Coordinator, Dr Tom Okey

Marine Ecologist
Adjunct Professor, UVIC Environmental Studies
Owner of Ocean Integrity Research





www.finha.ca

# Thank you!

# www.leonetwork.org