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ALASKA LEO NETWORK



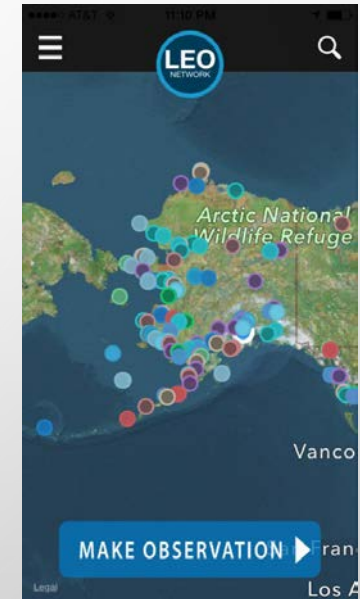
LEO MEMBER COMMUNITIES

There are over 200 LEO member communities in Alaska, including the communities of Barrow, Nome, and Shishmaref. In Shishmaref, LEO posts since 2012 have reported hazardous sea ice conditions, an unusual mortality event with hairless seals, rare birds, late freeze up, and a bear siting out of normal range.

LEO IS MAKING A DIFFERENCE

CLIMATE CHANGE IS HAVING A BROAD RANGE OF IMPACTS.
BY TRACKING EVENTS WITH LEO, WE CAN:

- ✓ **BUILD TRIBAL, LOCAL, AND SCIENTIFIC CAPACITY**
BY RAISING AWARENESS ABOUT CLIMATE CHANGE.
- ✓ **EVALUATE** POTENTIAL CLIMATE - IMPACT CONNECTIONS.
- ✓ **UNDERSTAND** CLIMATE TRENDS AND SEASONAL CHANGE.
- ✓ DEVELOP THE **DIALOGUE** ABOUT CLIMATE ADAPTATION,
WHICH MAY POSITIVELY INFLUENCE AGENCY POLICIES AND PROGRAMS.
- ✓ PERFORM **SURVEILLANCE** ABOUT EMERGING CLIMATE EVENTS SO THAT THE HEALTH OF
THE ENVIRONMENT AND ALASKANS CAN BE PROTECTED.





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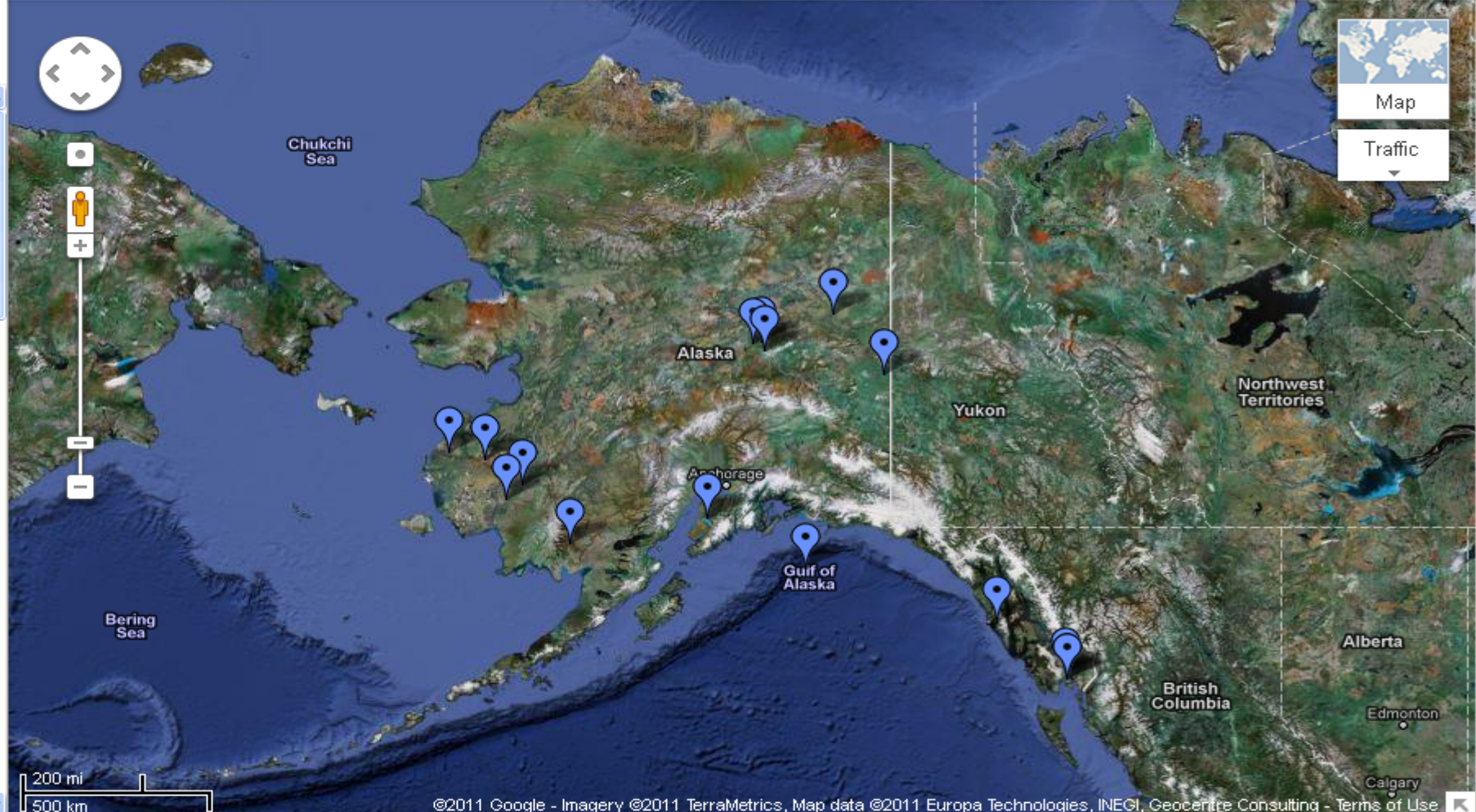
Edit

Alaska Climate Events, June 2011

This map provides an overview of climate related (or potential climate related) events that are occurring in Alaska. The map is maintained by the Alaska Native Tribal Health Consortium (ANTHC) and is based on published reports, media stories, and local observations. The purpose is to track events for long term and seasonal trends analysis. For more information contact Michael Brubaker at ANTHC's Center for Climate and Health, mbrubaker@anthc.org.

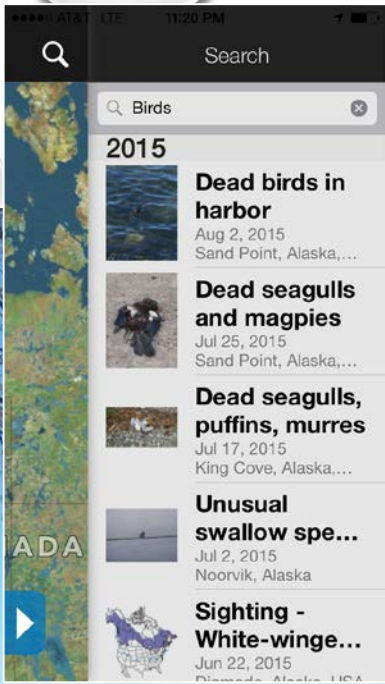
Public · 2 Collaborators · 2,078 views
Created on Jun 2 · By mbrubaker · Updated < 1 minute ago
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- Early summer butterfly sighting**
Fairbanks, June 1 (insect) Canadian tiger swallowtail butterfly. All the big, black and yellow striped butterflies you see fluttering about are nothing unusual. It's just the annual outbreak of hats...
- King salmon subsistence restricted**
Bethel, June 2 (fishery) An announcement from the Alaska Department of Fish and Game at Bethel for subsistence salmon fishermen in the Kuskokwim River Drainage. The current 2011 outlook for the Kus...
- PSP outbreak investigation**
Annette Island, June 6 (bivalve toxins) State health officials are



**MARINE MAMMAL
SICKNESS IN THE ARCTIC**



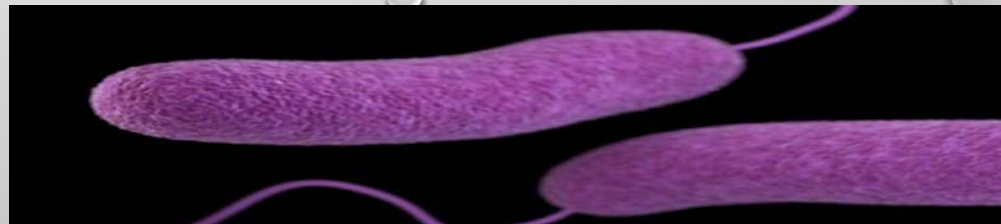


Credit: Wilson Justin Drying lake near Venetie, Alaska



LEO Network observer Victoria Kotongan reported worm-like parasites showing up in grouse and ptarmigan in 2012.

Credit: Victoria Kotongan



Are ocean conditions right for *vibrio parahaemolyticus*?

Old LEO

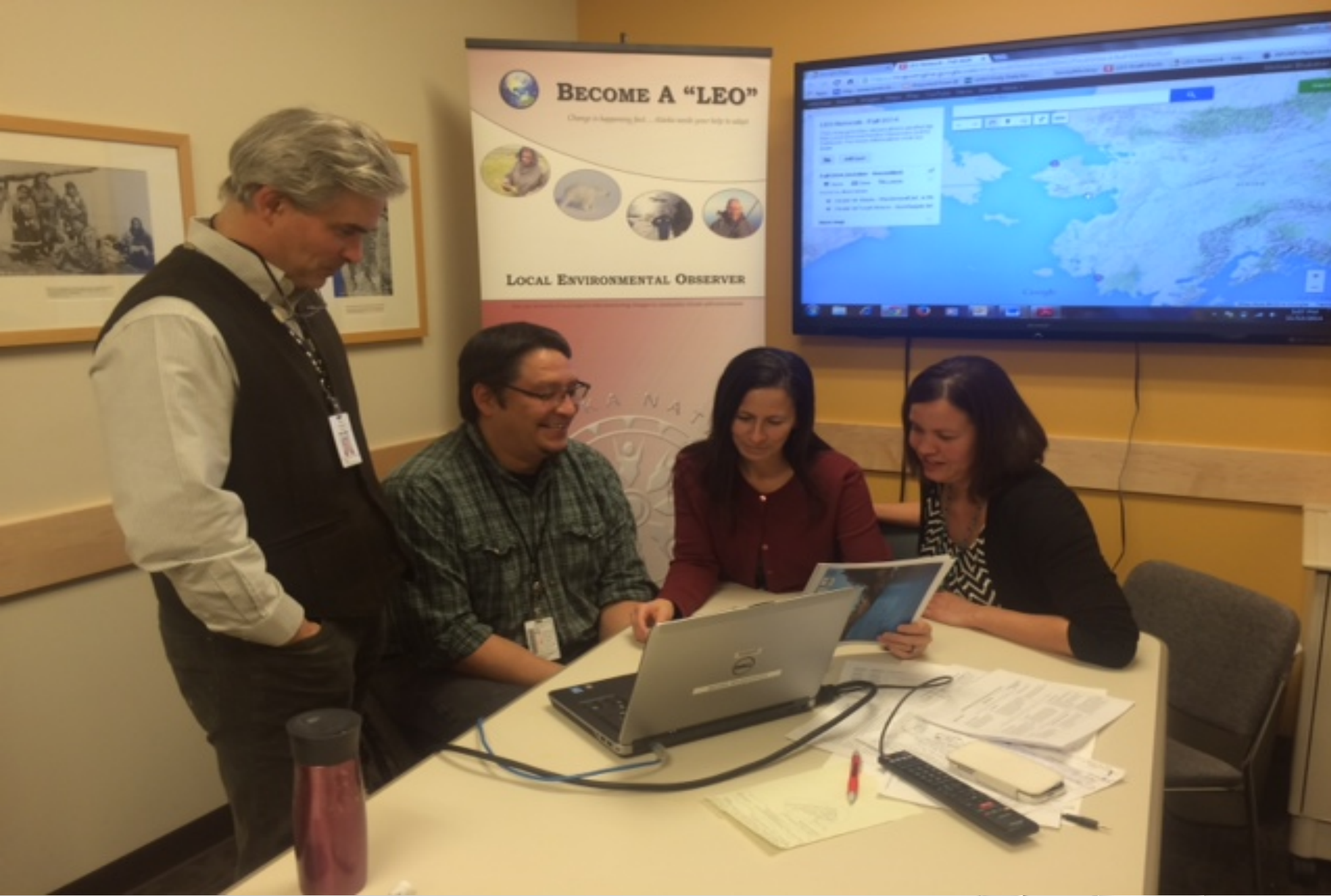
Observers are tied to computer and website. Posting an observation takes multiple actions. Photos must be sent separately by email.



New LEO

Observers can make observations including photos and video in the field. Automatic upload occur when cell tower reception restored. Updates on new observations received in form of alerts.





ACAP ARCTIC CONTAMINANTS ACTION PROGRAM



For more information, contact Mike Brubaker at the ANTHC Center for Climate and Health mbrubaker@anthc.org or Moses Tcheripanoff mptcheripanoff@anthc.org



ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

LEO MAKES HEADWAY IN WASHINGTON, DC



Credit: Ed Washburn Wilson Justin and Mike Brubaker

White House Citizen Science Event
September 2015



<http://www.nwic.edu/life-on-campus/degrees-and-certificates/b-s-in-native-environmental-science/>

IMPLEMENTING LEO NETWORK IN BC



First Nations Health Authority
Health through wellness

A one-day workshop is being held November 15-16, 2016 in Victoria, BC to familiarize regional champions with the LEO Network.

LEO BC Hub Coordinator:

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FNHA Project Lead:

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MÉXICO

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Conservación de Islas





PROGRESS BEING MADE IN THE ARCTIC COUNCIL

PHASE ONE

Develop of a framework for the expansion of the LEO Network in the arctic, and establish North American Regional Chapter of LEO in U.S. and Canada

PHASE TWO

Establish **additional country, regional chapters** in the LEO Network (Fenno-Scan Chapter)

Welcoming New Partners, Such As International Center For Reindeer Husbandry, Snow Change, Sami Educational Institute, And Other Sami Organizations

PHASE THREE

Link All LEO Chapters Into Circumpolar Environmental Observer Network (CLEO)





Thank you!

Questions ?