

Local Environmental Observer (LEO) Network

LEO Training Teleconference March 19, 2012

**Mike Brubaker and Moses Tcheripanoff
Alaska Native Tribal Health Consortium**



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Savoonga seeks state disaster help

by The Associated Press

Jan 04, 2011 | 1095 views | 0 | 3 | |

ANCHORAGE, Alaska - Savoonga is seeking disaster help from the state.

The request asks the governor to declare a state disaster emergency and provide disaster assistance to the city for emergency response and disaster recovery.

A storm more than a week ago brought high winds and extremely cold temperatures to the St. Lawrence Island community. It also sprayed the village with salt water that coated and froze on electrical transmission lines, causing power outages that lasted for days.

The loss of power also led to frozen and broken water pipes in some homes.

The Alaska Division of Homeland Security and Emergency Management is sending a team to Savoonga to assess the situation. The team was to leave Tuesday and then report back to the governor. About 700 people live in the community on the island in the Bering Sea.

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Alaska Climate Events, January 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. For more information contact Michael Brubaker at ANTHC's Center for Climate and Health, mbrubaker@anthc.org,

Public · 4 Collaborators · 3,043 views

Created on Jan 3, 2011 · By [mbrubaker](#) · Updated May 15, 2011

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Warm Temperatures Ring In New Year

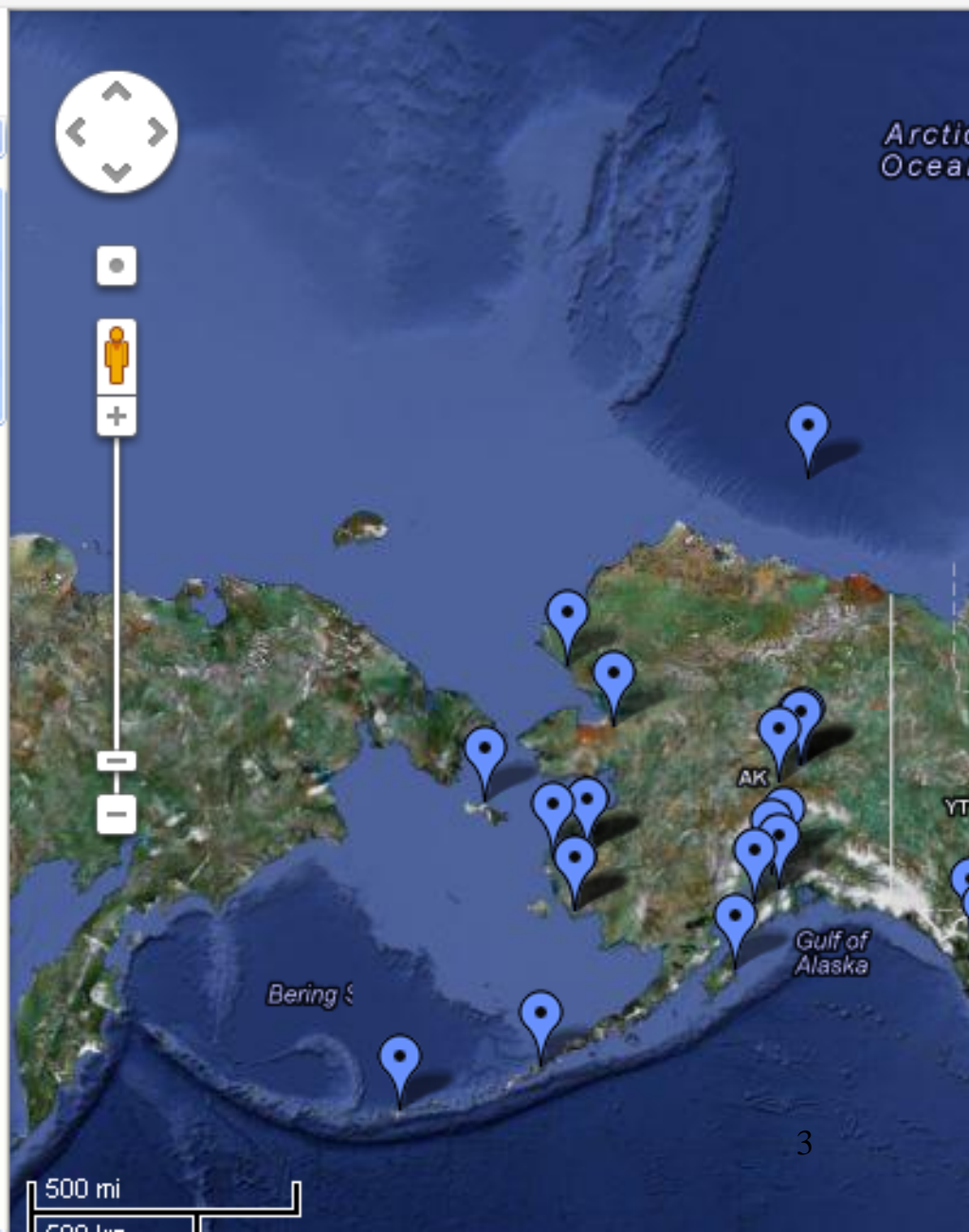
Fairbanks 01-02-11. (extreme weather) You can thank a blizzard that's been rolling up the western coast of Alaska for record-breaking high temperatures in Fairbanks during the holiday w...

New Bird Species Counted

Unalaska 01-02-11 (unusual wildlife) Unalaska Island's 19th consecutive Christmas Bird Count held Jan. 2 turned up one new species and recorded all-time-high counts of seven other species. Twen...

Ice Storm Damages Electrical and Water System

Savoonga 01-03-11. (utility damage) Lori Townsend, APRN. The St Lawrence Island community of Savoonga has power after days of power loss from freezing salt spray that caused arching when line became...



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New Bird Species Counted

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Savoonga 01-03-11. (utility damage) Lori Townsend, APRN. The St. Lawrence Island community of Savoonga has power after days of power loss from freezing salt spray that caused arching when line became...

Chinook Brings High Avalanche Risk

Turnagain Pass 01-03-11. (extreme weather). Avalanche specialists are cautioning the public about increased avalanche danger in Southcentral Alaska. The areas of particular concern are Turnaga Pa...

Search Party Finds Missing Snowmachiner

Scammon Bay 01-03-11 (lost traveler) by Shane Iverson KYUK. Missing was Neil Aguchak of Scammon Bay. According to Roy Atchak of Chevak Search and Rescue, Aguchak left Chevak headed towards Scammon Bay...

Thin Ice Related Drowning

Kodiak 01-09-11 (bad ice) The vice president of a volunteer search and rescue team in Kodiak died after falling through the ice of a popular local lake, a member of the group said today. ...

High Winds Cause Damage in Juneau

Juneau 01-11-11 (extreme weather) The KTOO station downtown took some heavy hits from the strong winds this week. Gusts pushed two of the roof's four satellite dishes out of alignment and knocked over...

Exposure Death

St Marys 01-11-10 (extreme weather / fatality) On 1/22/11 at approximately 1145 hours the Alaska State Troopers in St. Mary's were notified of a deceased person located near the St. Mary's High School...

High Wind Warning in Mat-Su

Matanuska/Susitna Valley. 01-12-11. (extreme weather event) A high wind warning went into effect on Tuesday the 11th, with wind gusts up to or exceeding 75 mph in the Matanuska Valley, including the c...

High Winds

Haines 01-14-11 (extreme wind) Three days of high winds wreaked havoc last weekend, falling trees, damaging buildings and cancelling the sailing of the ferry Aurora up Lynn Canal. Sue Liber...

Foreign Ships Seek Shelter

Western Aleutians 01-18-11 (extreme weather) Five foreign cargo vessels are holed up in the Aleutian Islands, waiting out a storm w...

Ice Storm Damages Electrical and Water System

Last Updated by [moe](#) on Jan 11, 2011

disaster emergency and provide disaster assistance to the city for emergency response and disaster recovery.

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The Alaska Division of Homeland Security and Emergency Management is sending a team to Savoonga to assess the situation. The team was to leave Tuesday and then report back to the governor. About 700 people live in the community on the island in the Bering Sea.

Read more: [Fairbanks Daily News-Miner - Savoonga seeks state disaster help](#)

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200 mi
200 km

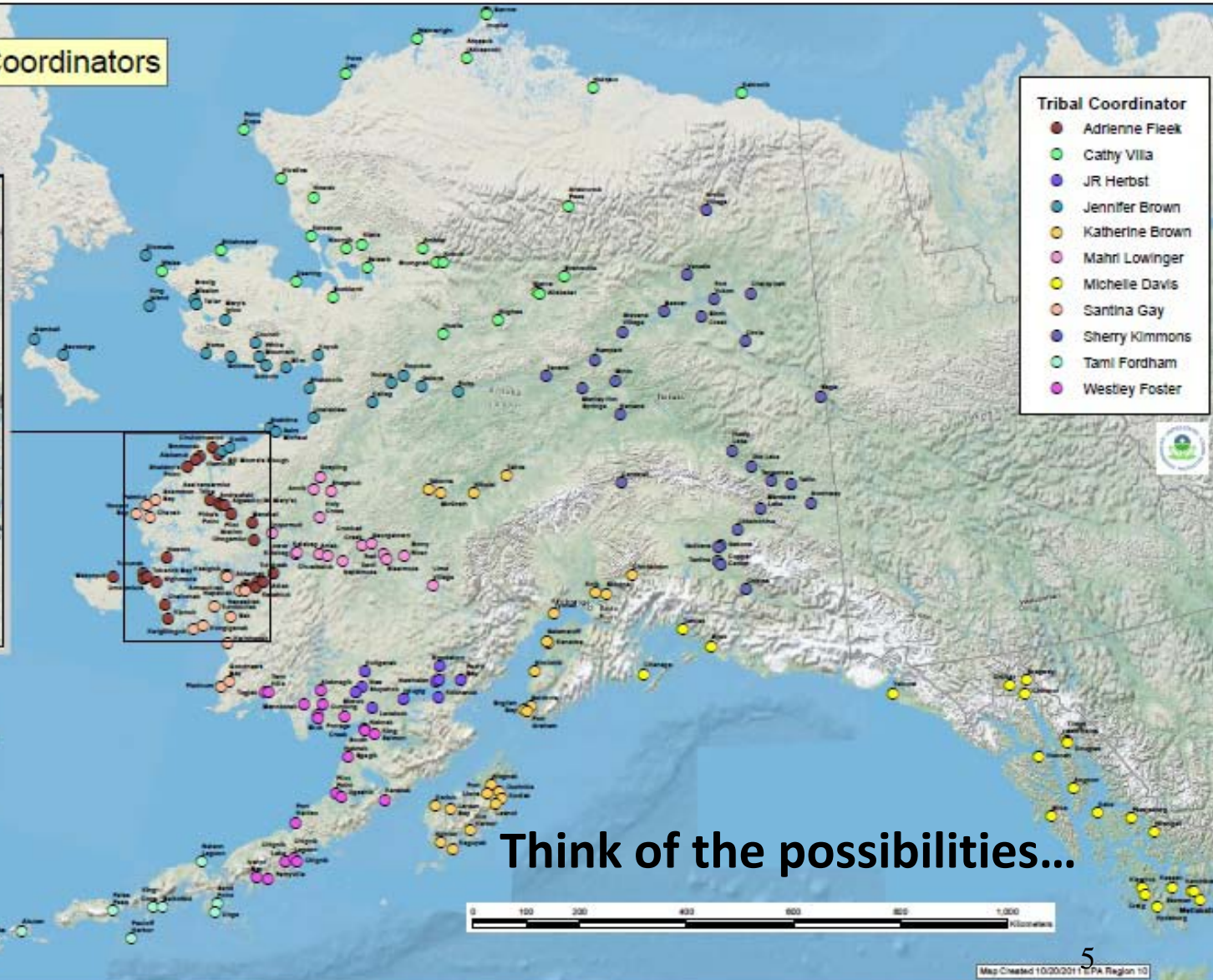
Northwestern
Passages

Canada

4

Bridging the GAP...

EPA Region 10 Tribal Coordinators



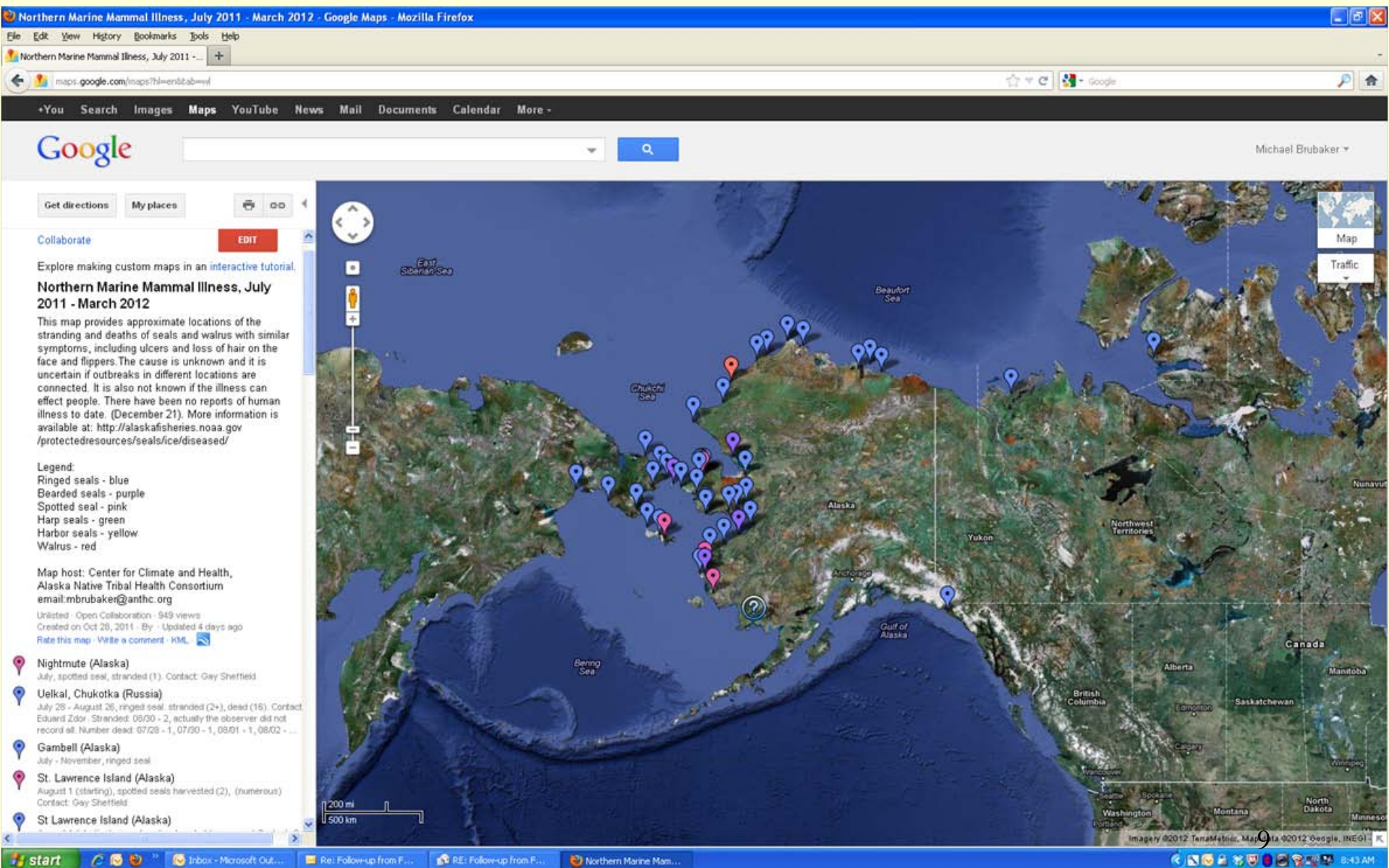
Think of the possibilities...







Seal and Walrus Illness Outbreak



How LEO Works

1. Communication network.
2. Information network - weekly updates.
3. Observation network – monthly maps.
4. Technical assistance network – resources.

Unusual Events

Time and Location Specific

- Weather
- Wildlife
- Plants
- Subsistence
- Land Change
- Ocean Change
- River Change
- Lake Change
- Pollution Events
- Infrastructure
- Drought, floods





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Local Environmental Observer (LEO) Network Communities

This map shows the locations of all Local Environmental Observer (LEO) Network communities. If you have comments or would like to add information, or be removed from the map, you can contact the map hosts at: anthcleo@anthc.org

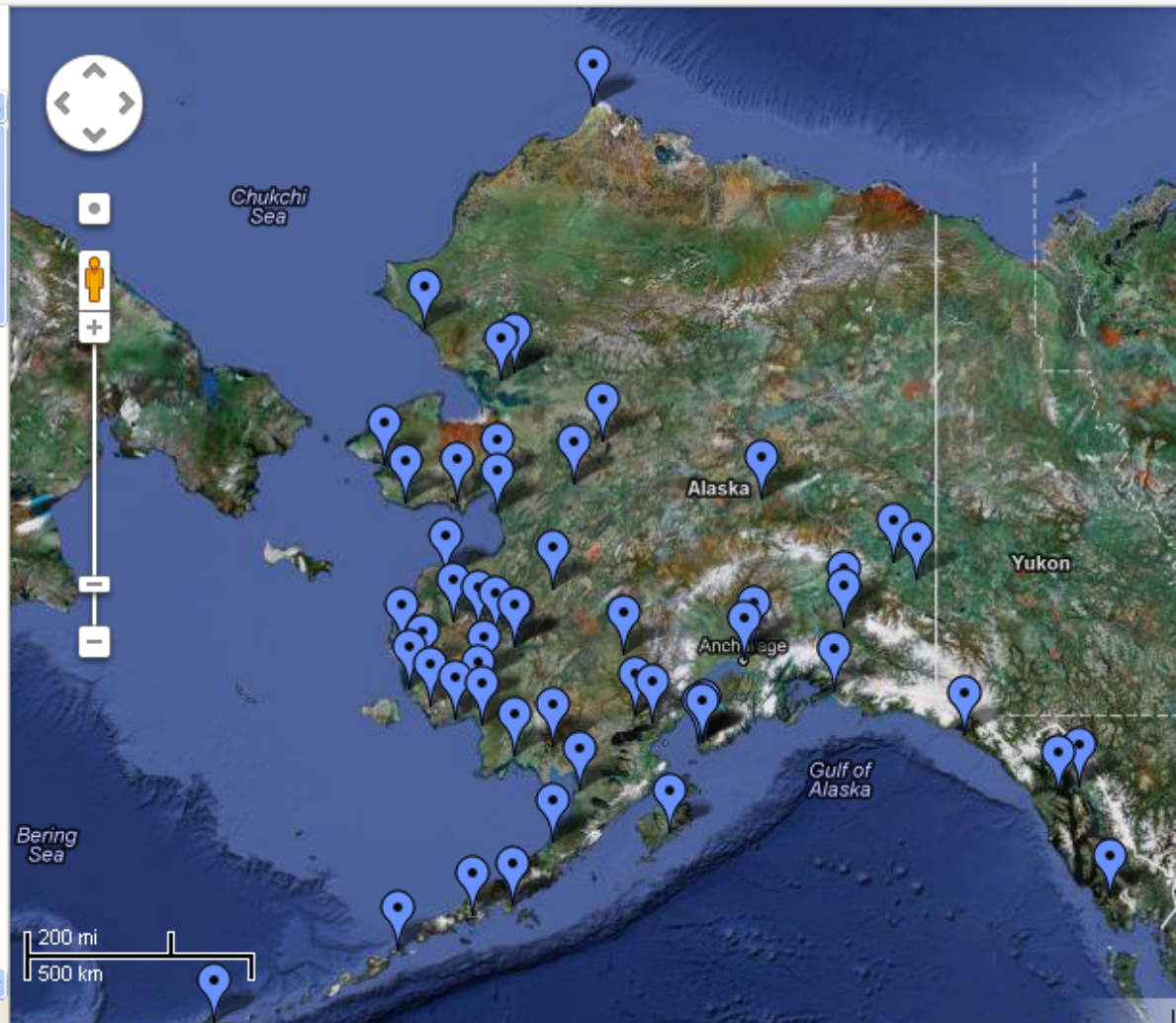
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+1 0

- Akutan
- Aleknagik
- Anchorage
- Atka
- Barrow
- Bethel
- Chefnak



[LEO Community Map](http://g.co/maps/jn9m2): <http://g.co/maps/jn9m2>



Local Environmental Observer (LEO) Network

Arctic communities are changing due to environmental impacts, climate change and development. Monitoring the environment is important for understanding the risks and benefits and for adaptation. The LEOs are the eyes, ears and voice of environmental change in Alaska communities.



[click here](#)
Post an Observation



[click here](#)
Join "LEO" Alaska

We are tribal environmental professionals who apply traditional knowledge, western science and technology to document unusual plants and wildlife, extreme weather, erosion, flooding, droughts, wildfire and other events that can threaten food security, water security and community health. The LEO Program works with partner organizations and observer networks to improve monitoring and understanding about climate change in the Arctic. Please see our LEO Maps, partners and resources page, and other links to learn more.

LEO February 2012 Map



View LARGE: [click here](#)

LEO Maps Archive

February 2012

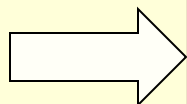
Related Pages

- [About Us](#)
- [Contact Info](#)
- [Partners & Resources](#)

253 Visits to, Alaska
1 Recent Hit



This is
where to
post.



Ten Questions:

1. Name?
2. LEO number?
3. What is the time of observation?
4. What is the location?
5. What type of observation?
6. What is your observation?
7. Why is this important?
8. Do you have media?
9. Who should we credit the media?
10. Can we post your information?

Post a LEO Observation

Questions marked with an asterisk (*) are mandatory.

1. * Name

2. * LEO Number

3. Time of Observation

4. What is the location? (use landmarks or lat/long if possible)

5. What is the type of observation?

6. What is your observation?

7. Why is this important to you or your community?

8. Do you have media (recording, video, photo)?

☐ Yes
☐ No

9. Who should we credit the media to? (please provide name)

10. Can we post this information to the LEO web map?

☐ yes
☐ no

Twenty-five observations types:

Weather

Air

Community water

Community food

Seasons

Land

River

Lakes

Coasts

Mountains

Snow

Ice

Insects

Birds

Land animals

Marine animals

Fish

Shellfish

Plants

Other biota

Environmental

Safety

Infrastructure

Other

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Title

Local Environmental Observer (LEO) February 2

Description

This map provides a monthly record of unusual or noteworthy events that have occurred across Alaska. The purpose is to increase communication and understanding about our changing environment and to encourage healthy ways to adapt. Reports are provided through the network of Local Environmental

+1 0

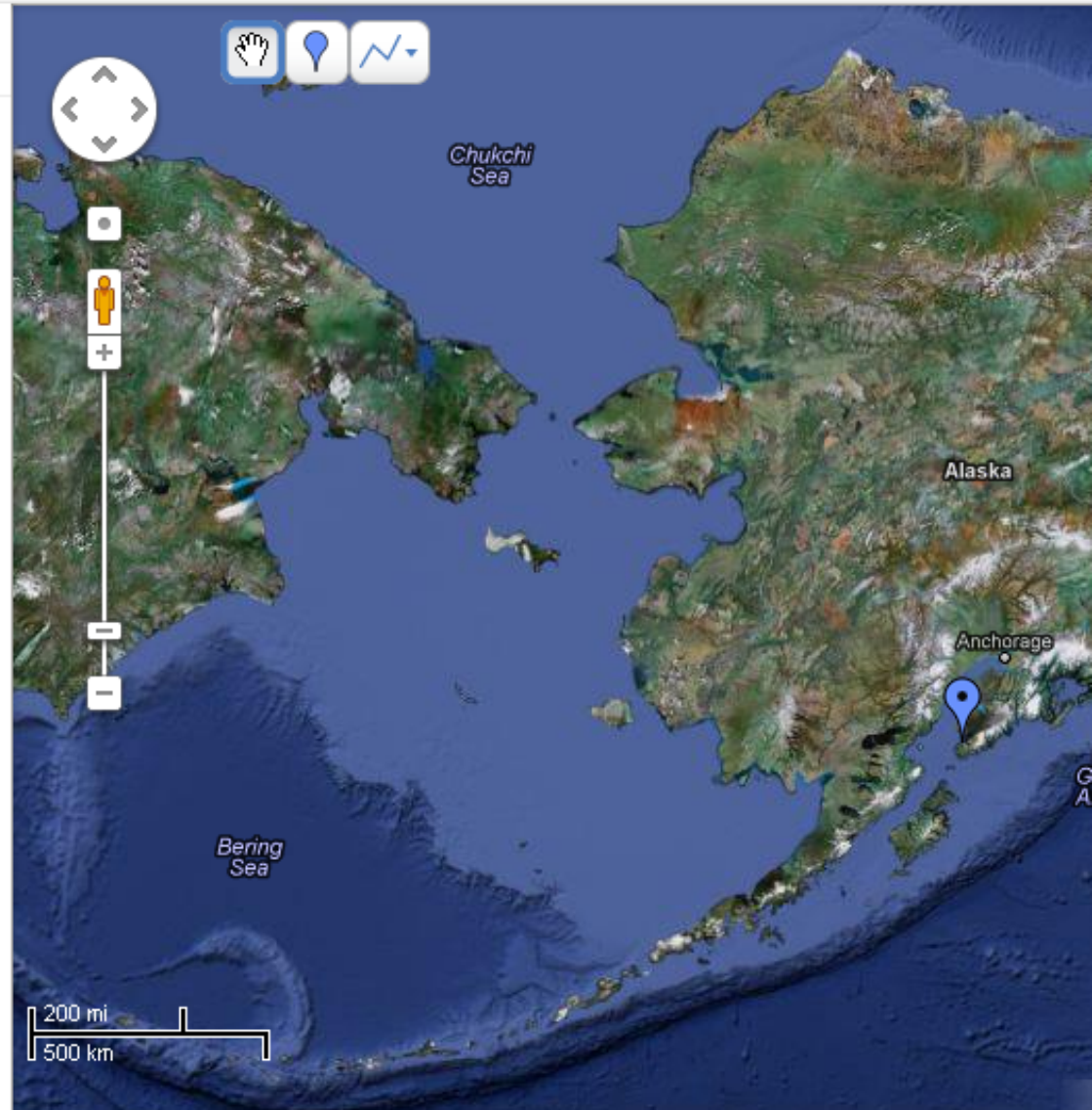
Privacy and sharing settings [Learn more](#)

☒ **Public** - Shared with everyone. This map will be published in search results and user profiles.

☐ **Unlisted** - Shared only with selected people who have this map's URL.

Penguin in Alaska

Seldovia, February 8 (birds) A penguin chick of unknown type was observed on the dock in Seldovia. He / she appeared to be basking in the sun. Posted by Mike Opheim, LEO 23. mopheim@svt.org Mock Po...







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Local Environmental Observer (LEO) February 2012

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For more information visit our site at the Alaska Native Tribal Health Consortium, Center for Climate and Health:

<http://www.anthc.org/chs/ces/climate/leo/>

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Public · 2 Collaborators · 1,155 views

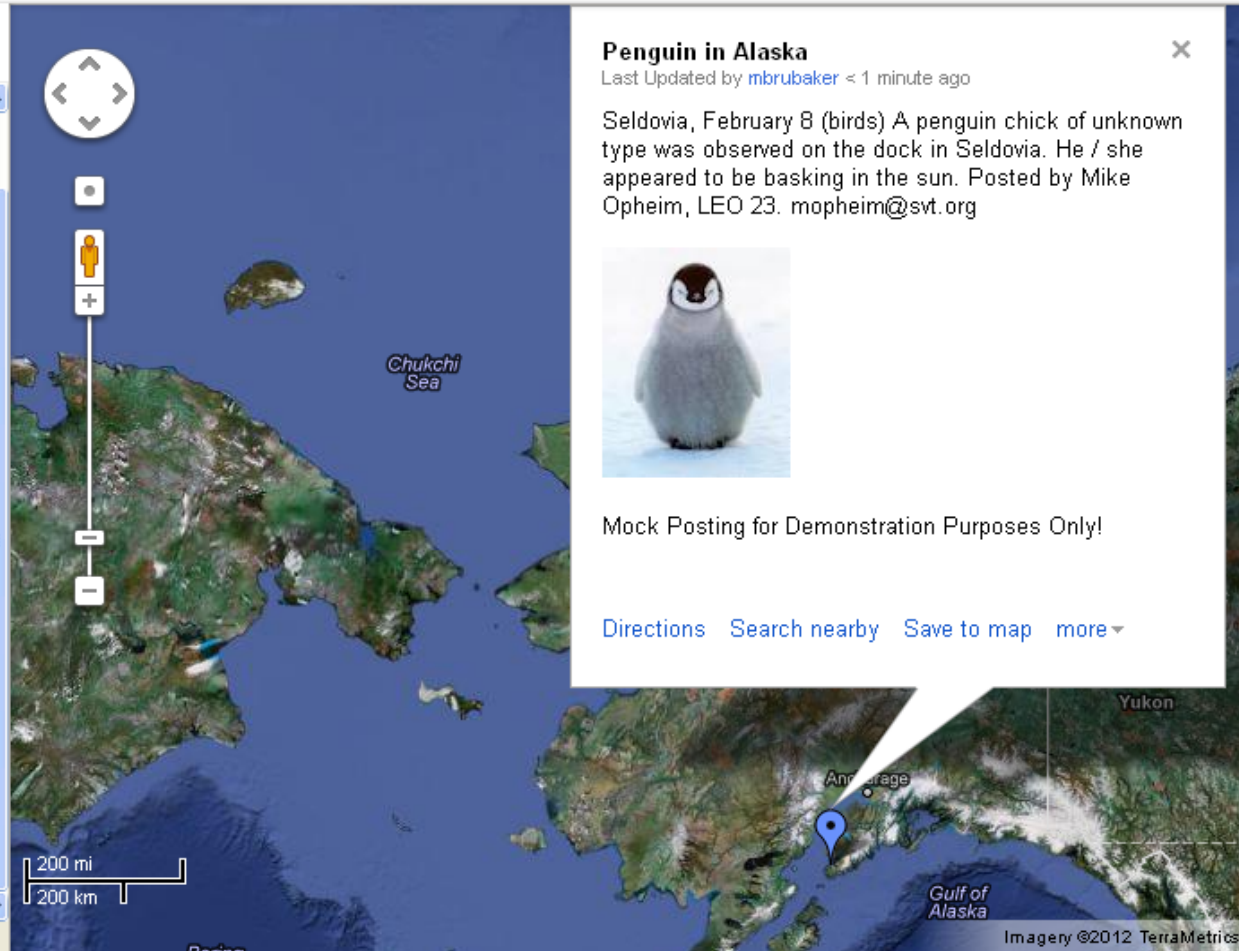
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Penguin in Alaska

Seldovia, February 8 (birds) A penguin chick of unknown type was observed on the dock in Seldovia. He / she appeared to be basking in the sun. Posted by Mike Opheim, LEO 23. mopheim@svt.org Mock Po...



Penguin in Alaska

Last Updated by [mbrubaker](#) < 1 minute ago

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Mock Posting for Demonstration Purposes Only!

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Michael Brubaker ▾

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Local Environmental Observer (LEO), March 2012

This map provides a monthly record of unusual or noteworthy events that have occurred across Alaska. The purpose is to increase communication and understanding about our changing environment and to encourage healthy ways to adapt. Reports are provided through the network of Local Environmental Observers (LEO), environmental professionals located in local or regional tribal organizations across Alaska. For more information visit our site at the Alaska Native Tribal Health Consortium, Center for Climate and Health:

<http://www.anthc.org/chs/ces/climate/leo/>Email: anthcleo@anthc.org

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Public · 2 Collaborators · 539 views

Created on Mar 8 · By mbrubaker · Updated 22 hours ago

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Change in barnacle numbers raises harvest questions

Nanwalek, March 9, 2012 (subsistence) Several chiton gatherers have reported above normal amounts of barnacles, young and old, that have fallen from the coastal rocks. They are concerned about the am...







Michael Brubaker

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Chukchi Sea



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Local Environmental Observer (LEO), March 2012

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Change in barnacle numbers raises harvest questions
Nanwalek, March 9, 2012 (subsistence) Several chiton gatherers have reported above normal amounts of barnacles, young and old, that have fallen from the coastal rocks. They are concerned about the am...

Change in barnacle numbers raises harvest questions

Last Updated by [mbrubaker](#) 22 hours ago

Nanwalek, March 9, 2012 (subsistence)

Several chiton gatherers have reported above normal amounts of barnacles, young and old, that have fallen from the coastal rocks. They are concerned about the amount of change in the shellfish, and the occurrence that took place during the low tide. We have not seen this before and subsistence gatherers are worried about the safety of chitons and shellfish to eat. Please advise. Posted by Tim Greene, LEO

See reference articles:

[Impacts of climate change on mussels](#)

[Impacts of climate change on barnacles and mussels](#)

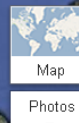
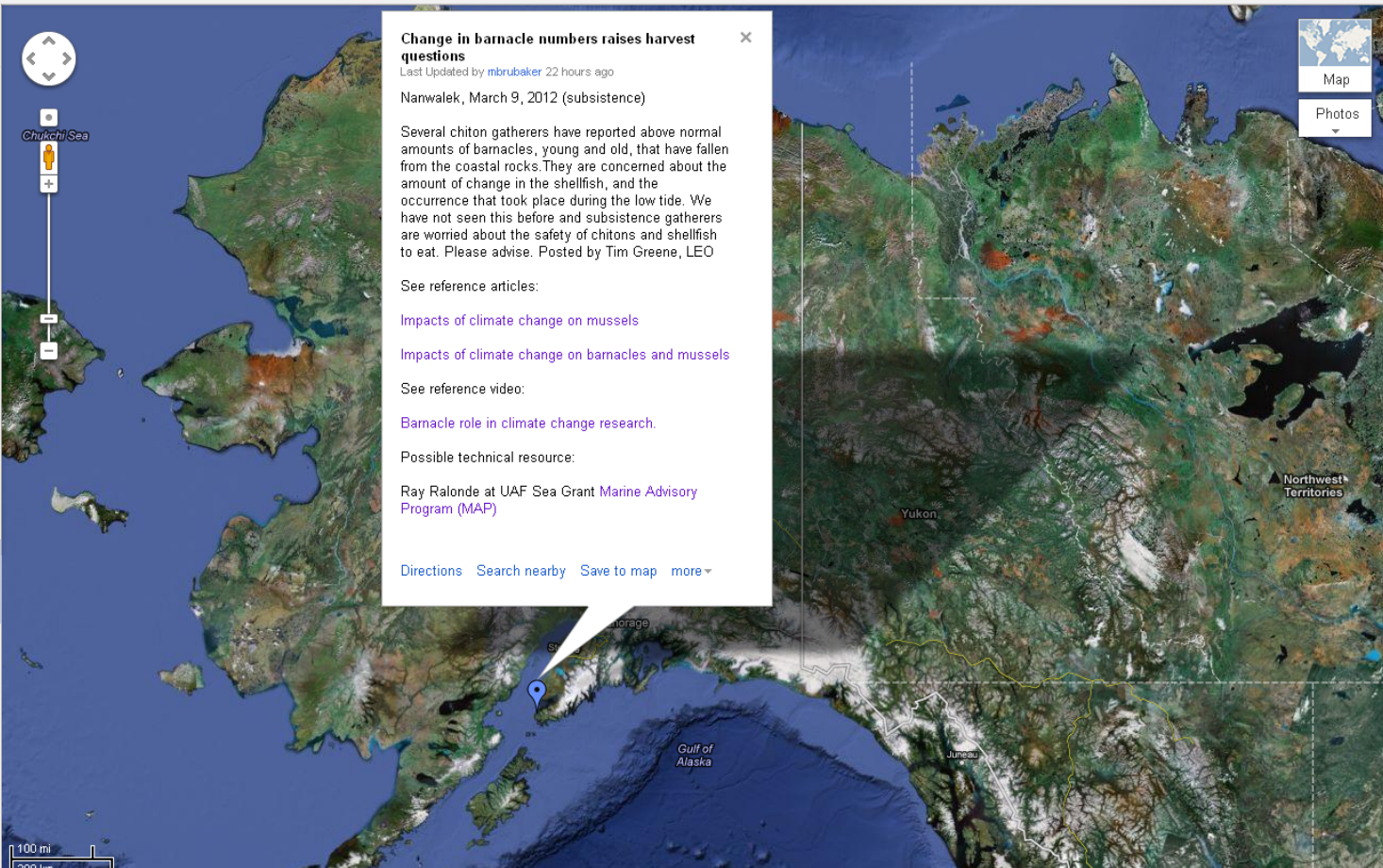
See reference video:

[Barnacle role in climate change research.](#)

Possible technical resource:

Ray Ralonde at UAF Sea Grant [Marine Advisory Program \(MAP\)](#)

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Local Environmental Observer (LEO), March 2012 - Google Maps - Mozilla Firefox

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Local Environmental Observer (LEO), March 2012

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Email: anthcleo@anthc.org

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Change in barnacle numbers raises harvest questions
Nanwalek, March 9, 2012 (subsistence) Several chiton gatherers have reported above normal amounts of barnacles, young and old, that have fallen from the coastal rocks. They are concerned about the am...

start | Inbox - Microsoft ... | RE: Anchorage Vis... | Alicia Rolin - Ameri... | LEO Network Upd... | Local Environm... | ANTHC :: Local En... | Norton Sound | My Pictures | Microsoft PowerPo... | 11:01 AM

Re: Your Observation is Posted - Message (HTML)

Message Adobe PDF

Reply Reply to All Forward to All Respond

Delete Move to Folder Create Rule Other Actions

Block Sender Not Junk Junk E-mail

Categorize Follow Up Mark as Unread Options

Find Related Select Find

You forwarded this message on 3/12/2012 12:24 PM.

From: tim greene [tgreenenanwalek@gmail.com] Sent: Mon 3/12/2012 7:09 AM
To: Brubaker, Michael Y
Cc:
Subject: Re: Your Observation is Posted

posting looks good and may i have ray's email thanks tim

On Fri, Mar 9, 2012 at 3:57 PM, Brubaker, Michael Y <mbrubaker@anthc.org> wrote:

Hi Tim,

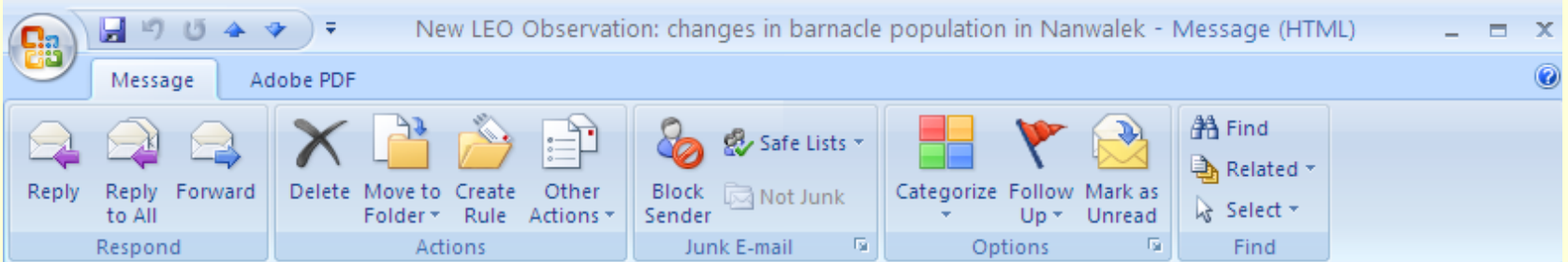
We have received your LEO Observation Posting. It is Observation Reference No. B004. Please go to the [map link](#) and check the language and location of the posting. If you have any changes or correction just let us know and we will fix it. Once we hear back from you, we will forward a notice to the other LEOs about your posting.

Photos would help. If possible just send one our way. Just reference the above number and send your photo as an email attachment to anthcleo@anthc.org. Please put the words "LEO Photo" in the subject line.

As to assistance on this topic, we think the best people to contact would be either Ray Ralonde with the Sea Grant Marine Advisory Program or Bruce Wright with the Aleutian Pribilof Islands Association. Both have done a lot of work with shellfish and public health, and either one could probably help. Please let me know if you would like me to put you in contact with Ray or Bruce on this issue.

Thank you for your participation!

Regards – Mike



You forwarded this message on 3/12/2012 12:19 PM.

From: Brubaker, Michael Y Sent: Mon 3/12/2012 12:19 PM
To: Al Ashley (al.ashley29@yahoo.com); Albert Oquilluk (aoquilluk@yahoo.com); Allen Atchak Sr. (allenatchak@yahoo.com); Alma Kanrilak; Shannon, Anahma; Anita Atakitig (anita99678@gmail.com); Ann M Wyatt; AnnDee Roehl; Dushkin, William; Ben Foss (benfoss42@yahoo.com); Bernice Nicholi (bernice.nicholi@yahoo.com); Billy Jean Stewart (kalskagenvironmental@yahoo.com); Absher, Bob; Barnowski, Bobbi; Carey Carew (ccarew@crnative.org); Oliver, Carol; Carol Wesley (environmentalasst@nautaaq.org); Carol Wesley (environmentalasst@nautaaq.org);
Cc:
Subject: New LEO Observation: changes in barnacle population in Nanwalek

Dear LEO,

A new observation has been posted on our [March Map](#). The observation was posted by LEO Tim Greene in Nanwalek. Tim is reporting on changes in the amount of barnacles on the shoreline. If you are seeing similar changes, you can let us know by posting your observation on [LEO](#), or you can go to the [LEO Registry](#) and contact Tim directly.

Climate change is one possible explanation for changes in barnacle and mussel populations. Here are two reference links for your information:

ScienceDaily Article: [Impacts of climate change on barnacles and mussels](#)

YouTube Video clip: [Barnacle role in climate change research.](#)

Regards - Mike

Michael Brubaker, Director
[Community Environment and Safety](#)
Alaska Native Tribal Health Consortium
907-729-2464

You are here: [ANTHC](#) > [Community Health Services](#) > [Community Environment and Safety](#) > [Climate](#) > LEO Home



Local Environmental Observer (LEO) Network

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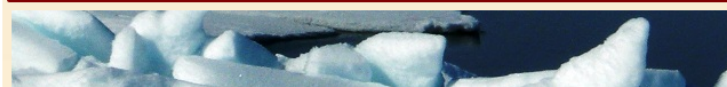
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Post an Observation



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Join "LEO" Alaska

We are tribal environmental professionals who apply traditional knowledge, western science and technology to document unusual plants and wildlife, extreme weather, erosion, flooding, droughts, wildfire and other events that can threaten food security, water security and community health. The LEO Program works with partner organizations and observer networks to improve monitoring and understanding about climate change in the Arctic. Please see our LEO Maps, partners and resources page, and other links to learn more.

LEO Alaska ([Flickr](#)) Photostream & LEO Alaska ([YouTube](#)) Channel



Return to: [Center for Climate and Health](#)

LEO March 2012 Map



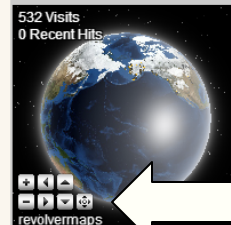
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LEO Maps Archive

March 2012 [Go](#)

Related Pages

- [About LEOs](#)
- [Contact Info](#)
- [Partners & Resources](#)



532 Visits
0 Recent Hits



This is where the observation maps are.

This shows who has stopped by for a visit.



Click here
for visit
statistics.

Livestats by RevolverMaps.com

Live Statistics



532 visits since Jan 23, 2012



Global Statistics

Visits from 3 countries registered.

up

No.	Country	Date of Last Visit	Percent & Number of Visits ▼	
1	United States	Mar 13, 2012	97.93%	521
2	Canada	Feb 29, 2012	1.69%	9
3	Spain	Feb 13, 2012	0.38%	2

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LEO Network Participants (do not distribute)

This is a private map for LEO Network Participants. It shows the locations of all LEOs and has contact information to encourage collaboration within the network. This map is for LEO Participants only, so please do not distribute. If you have comments or would like to add information, or be removed from the map, you can contact the map hosts at: anthleo@antho.org

Units led: 3 Collaborators: 184 views

Created on Jan 24 · By [mbrubaker](#) · Updated: 10 hours ago

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Moses Tcheripanoff, LEO 01

Wasilla LEO Manager and Web Guru, Alaska Native Tribal Health Consortium 907-729-2496 mtcheripanoff@antho.org Interests: I believe that this program is essential for keeping our communities connected...



Mike Brubaker, LEO 02

Anchorage / McDonald Spit LEO Manager, Director Community Environment and Safety, Alaska Native Tribal Health Consortium mbrubaker@antho.org 907-729-2464 Interests: community change related to oil...



Hanna Bklund, LEO 03

Location: Anchorage Organization: Chugach Regional Resources Commission Researcher hanna@circalaska.org LEO since Jan 2012.



Robert (Bob) Absher, LEO 04

Gakona, Native Village of Gakona Environmental Coordinator gakonaadmin2@ciaknemeine.net (907) 822-5777 Concerns: Reduction of nearby forests for Blockbuster, decline in the Copper River Salmon, erosion, etc...



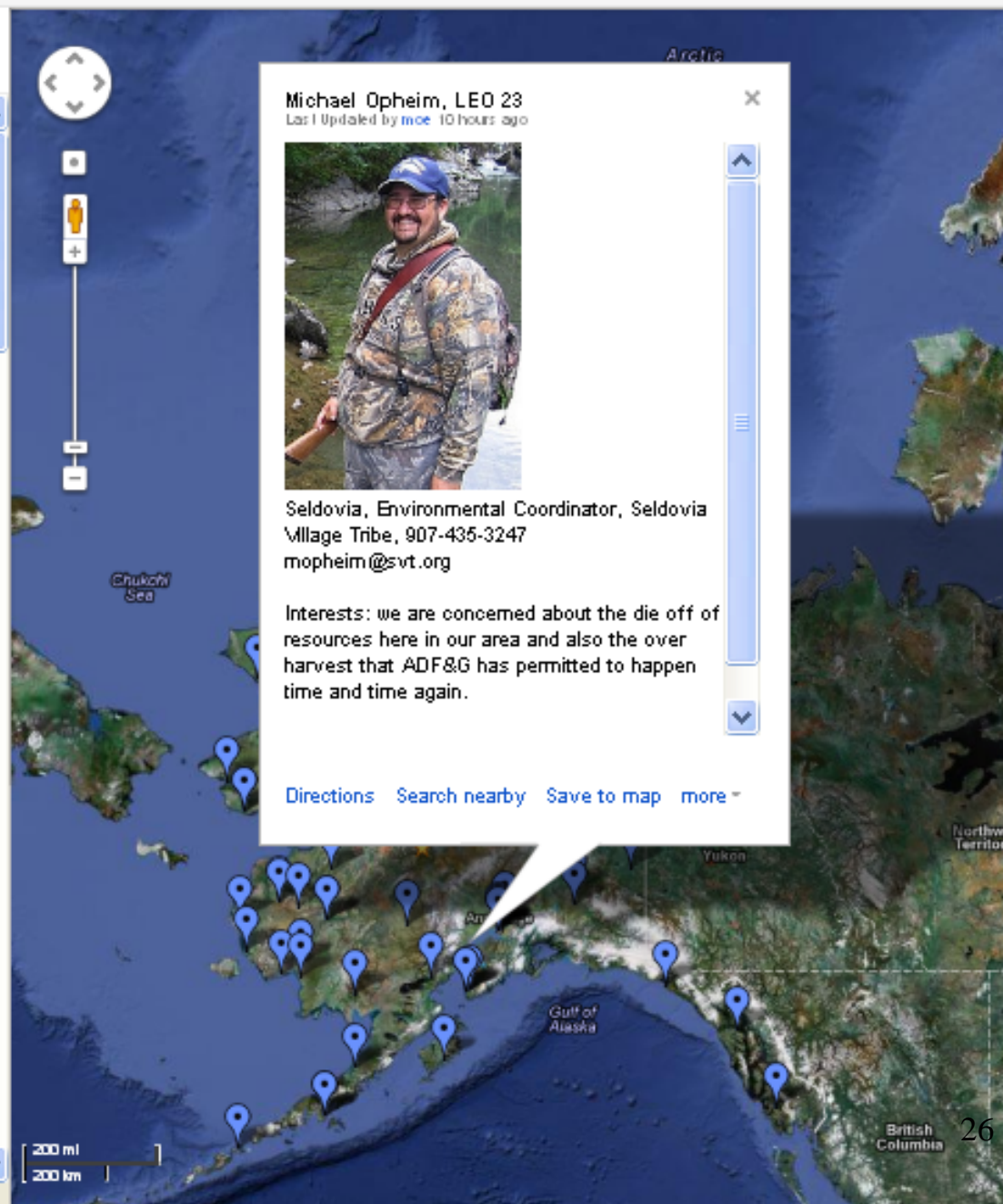
Oxenia Odomin, LEO 05

Anchorage, Environmental Program Associate, Alaska Native Tribal Health Consortium, 907-729-3492. odomin@antho.org Interests: concerns are towards environmental challenges and solutions to rural...



Don Wendell, LEO 06

Uma Village, NEPA Coordinator Association of Village Council Presidents dwendell@avcp.org (907) 543-7363 Concerns: weather patterns are changing, questions about permafrost, LEO since Jan 2012



Topics

[Aquaculture](#)
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[Marine Conservation](#)
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[Seafood Technology](#)

a statewide outreach and technical assistance program helping Alaskans wisely use, conserve, and enjoy Alaska's marine and coastal resources.



What's New?



[Onboard Marine Refrigeration](#)

Homer - March 27, 2012
Kachemak Gear Shed



[Ocean Acidification and Alaska's Fisheries](#)

Explore Alaska's ocean monitoring and fisheries research under way to better understand ocean acidification challenges.



[5th Western Alaska Interdisciplinary Science Conference and Forum](#)

March 28-30, 2012
Dillingham, AK



[Safe and Legal Fish Waste Composting in Alaska](#)

Alaska Sea Grant outlining safety precautions and legal aspects of composting with fish waste.

Workshops, training, and conferences

[Calendar of Events](#)
[HACCP](#)
[Cordova Community Science](#)
[Mug-Up](#)
[Forum of Alaska Marine Issues](#)
[More Workshops...](#)

Books and Videos

[Alaska Sea Grant Bookstore](#)
[Marine Advisory Program Ongoing Publications](#)

[Alaska Seafood Processing Leadership Institute](#)

Institute designed for mid-level managers, foremen, and others wanting to advance their careers in seafood processing.



[Alaska Fisheries Business Assistance Project](#)

A program that provides information and resources for Alaska's marine-related businesses.



[Alaska Marine Science and Fisheries Career Coalition](#)

Advocating for the education and employment of Alaska Natives and rural Alaskans in marine and fisheries sciences.



[Boating fuel efficiency resources](#)

Resources and tips for saving fuel on your fishing vessel or recreational boat.



[COSEE: Alaska People, Oceans and Climate Change](#)



[Adapting to Climate Change in Coastal Alaska](#)

Information about Alaska's changing coast and tools for communities, businesses or



From: Brubaker, Michael Y [<mailto:mbrubaker@anthc.org>]

Sent: Friday, February 03, 2012 10:40 AM

To: Brubaker, Michael Y

Subject: Climate and Health E-News (Special No. 100 Edition) LEO, killer whales, precipitation atlas, task force report, and murmurations

Climate and Health E-News

Raising Awareness about Climate Change and Public Health in the Circumpolar North

No 100, February 3, 2012

Circumpolar Climate Events Map – Our monthly maps document incidents around the circumpolar north. [Google Maps](#) (If you have problems try using Firefox or Google Chrome browser)

New observer network documents environmental changes in rural Alaska February 3, 2012 The Local Environmental Observer (LEO) Network was launched this week by the Alaska Native Tribal Health Consortium's Center for Climate and Health. LEO engages tribal environmental and health professionals from across Alaska to map observations of environmental change in their communities. The purpose is to raise awareness about the types of impacts occurring in rural Alaska, to connect rural communities with appropriate resources, and to encourage healthy strategies for adaptation. See website: [ANTHC](#)

What do killer whales eat in the Arctic? January 29, 2012 Killer whales are the top marine predator. The increase in hunting territories available to killer whales in the Arctic due to climate change and melting sea ice could seriously affect the marine ecosystem balance. New research has combined scientific observations with Canadian Inuit traditional knowledge to help determine killer whale behavior and diet in the Arctic. [Science Daily](#)

Circumpolar Climate Events Map

Circumpolar Climate Events Map, March 2012 - Google Maps - Mozilla Firefox

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Circumpolar Climate Events Map, March 2012 ...

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- Women injured in separate moose attacks (Alaska)**
Talkeetna / Willow, March 1 (wildlife) Two Sustina Valley women were stomped by moose Thursday as they walked children to bus stops. A woman in Talkeetna suffered injuries to her lower leg. The o...
- High winds cause electrical outages (Canada)**
Ottawa, March 3 (extreme weather) Strong winds have left tens o thousands of Ontario residents in the dark this morning. Hydro One reporting more than 200 outages affecting some 75,000 customers
- Snow causes roof collapse (Alaska)**
Anchorage, March 4 (extreme weather) Abbott Loop Community Church leaders scrambled Saturday to cope with the dramatic auditorium roof collapse Friday night that one witness said looked i a torna...
- Sick ringed seal (Alaska)**
Yakutat, March 8 (wildlife) Federal scientists said Wednesday that nearly bald, lethargic seal recovered from the Southeast Alaska coast showed the same symptoms of a disease that sickened ring se...
- Record snowfall to shorten garden season (Alaska)**
Anchorage, March 10 (extreme weather) With a near-record snowfall, with 35 inches on the ground and more snow in the forecast, gardeners are becoming seriously concerned about our short season startin...
- More roofs collapsing (Alaska)**
Anchorage, March 10 (extreme weather) The roof of an Alaska Railroad storage building at 801 W. First Ave. collapsed under a heavy snow load Wednesday night or early Thursday, and another commercial ...
- High winds hammer Vancouver Island (Canada)**
Vancouver, March 12 (extreme weather) Environment Canada was forecasting southeast winds of 60 to 100 km/h for much of the Soa Coast, but by 8 a.m. PT, gusts were already higher in the Strait of Ge...
- Third avalanche victim of week (Canada)**
British Columbia, March 12 (extreme weather) A 33-year-old Alber man has been identified as the victim of an avalanche Friday near Sparwood in southeast B.C. Steven Burke Hall of the central Alb...
- Change in barnacles raises harvest questions (Alaska)**
Nanwalek, March 9 (food security) Subsistence gatherers have reported that large numbers of barnacles, young and old have recently disappeared from coastal rocks. They are concerned abou the amount of ...

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Questions?

