

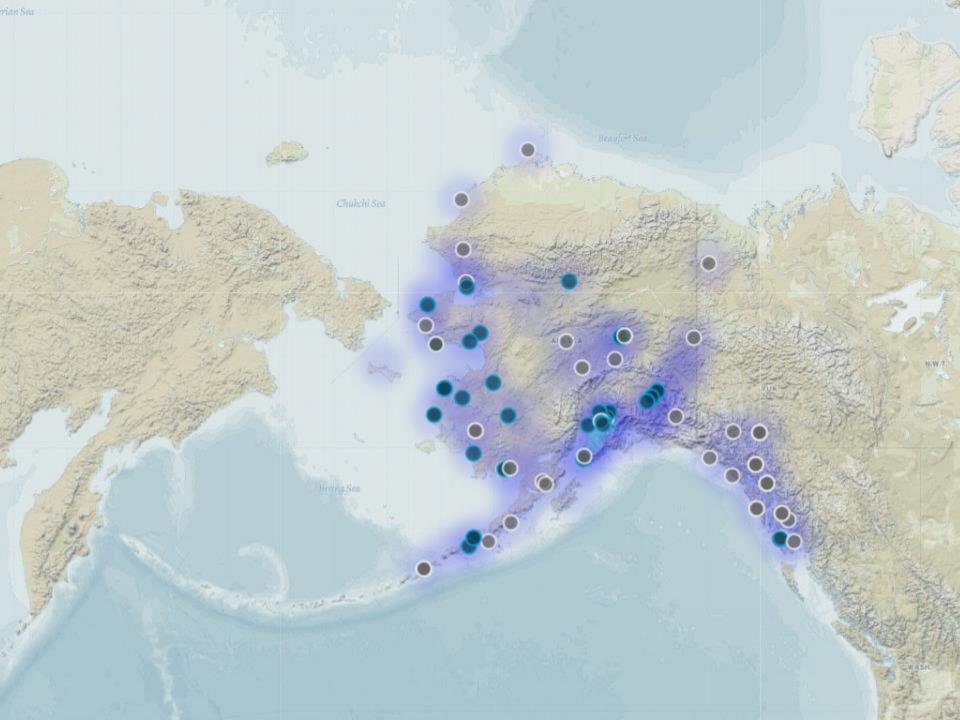
Local Environmental Observer Network 2020 Event Review

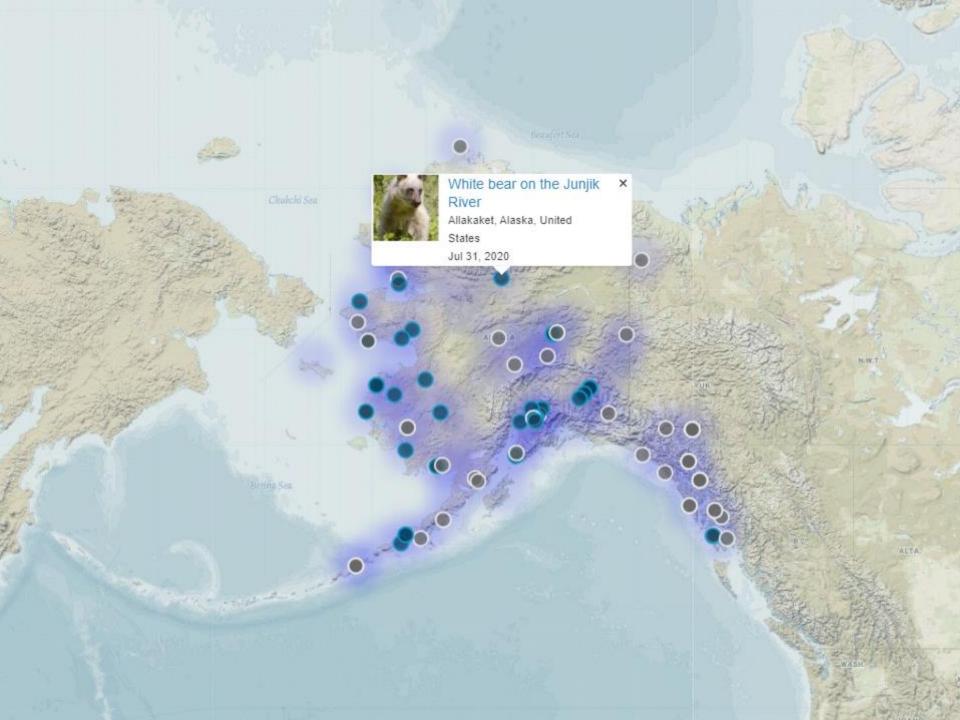
Alaska Tribal Conference on Environmental Management (ATCEM)

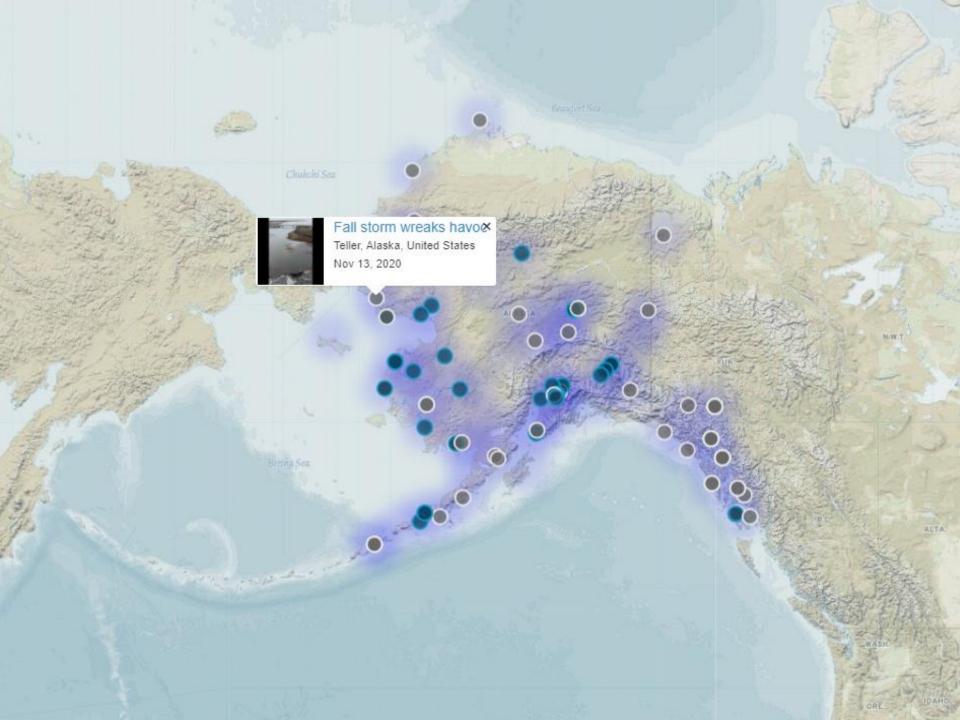
December 15, 2020

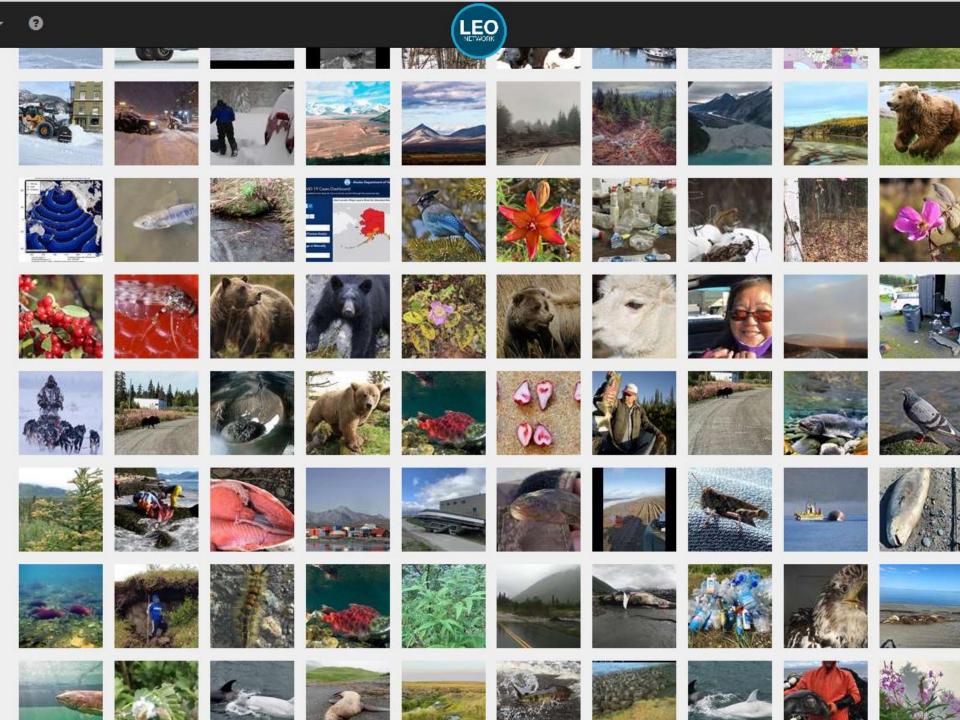
Mike Brubaker
Department of Community Environment and Health, ANTHC

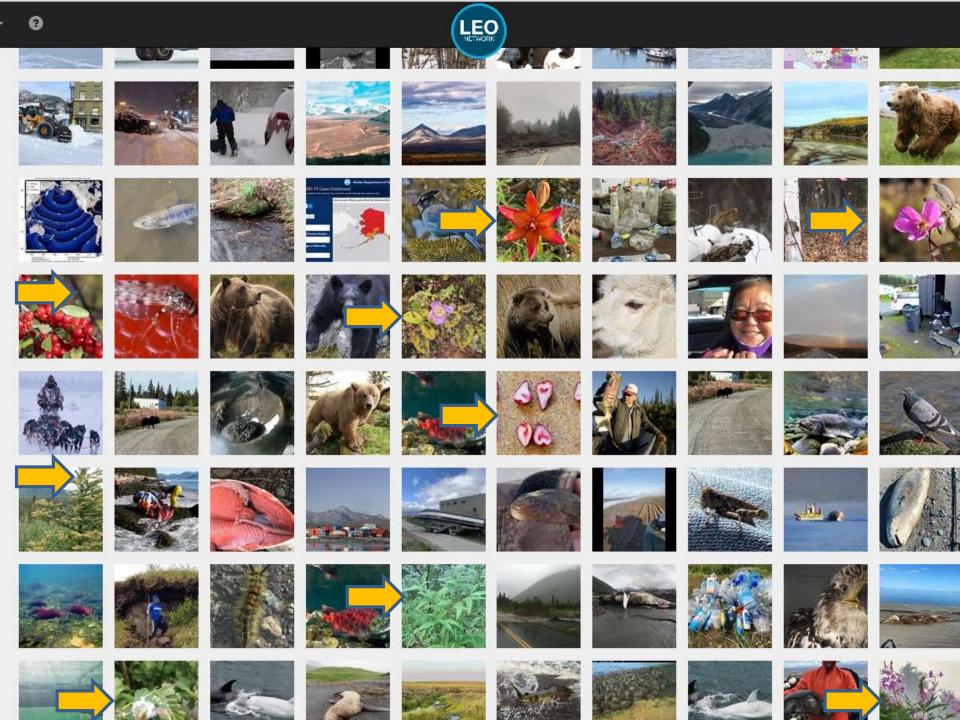


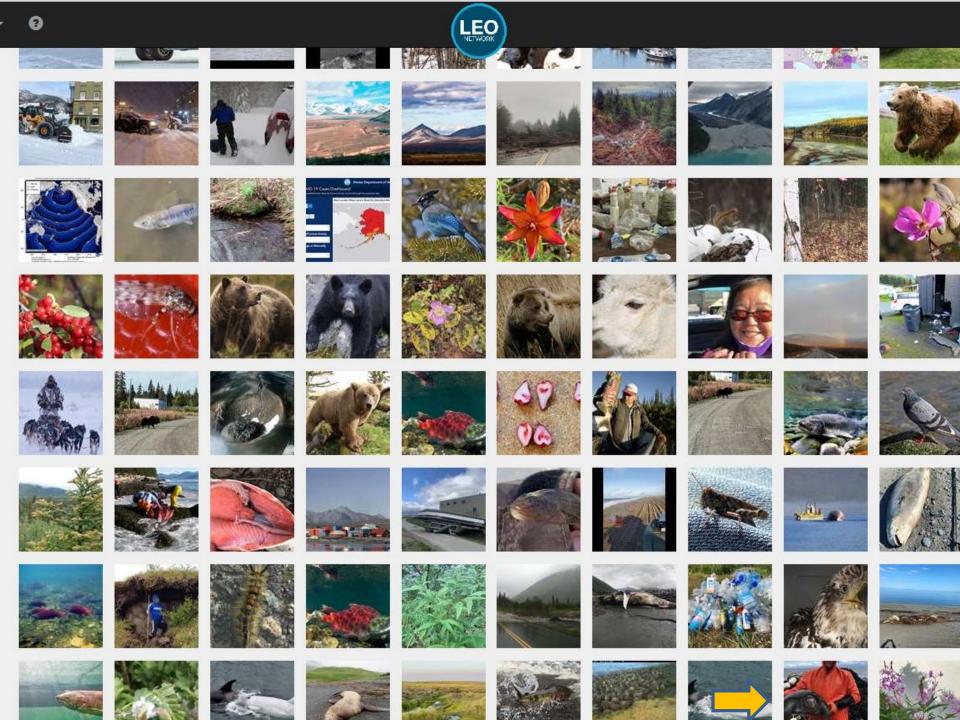




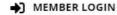














2

Seiners in Southeast Alaska rescue an unlikely hard-shelled visitor

By Maria Dudzak, KRBD - Ketchikan - August 10, 2020



Fisherman Ben Dolph and the green sea turtle he rescued before it could get tangle in a net (Photo credit Jes Boyd).

A fishing crew near Prince of Wales Island recently made an unusual catch: a sea turtle.

Listen / Watch

(A) Radio: Listen to KSKA Live

TV: Watch KAKM Live

TV: Watch 360 North Live

TV: Watch PBS KIDS 24/7 Live

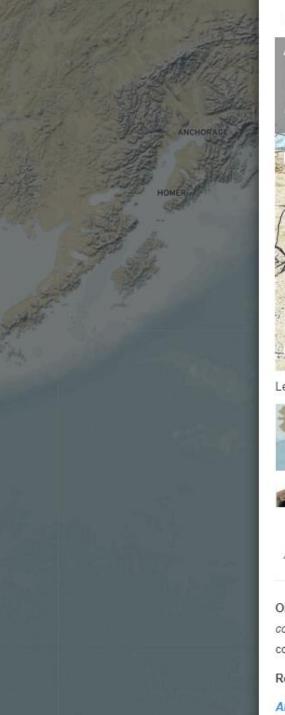
☐ Video On-Demand

O TV Schedules Radio Schedule

Thanks To Our Sponsors









Leatherback turtle. Photo USFWS



Southeast Region, Alaska, United States

Q N 55° 49' 9.925" W 133° 45' 5.438"

Q Nearby



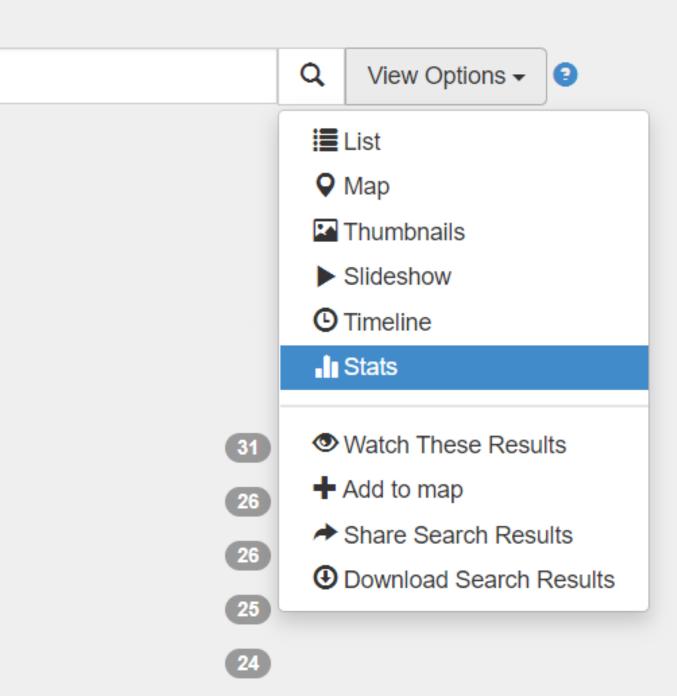
A salmon troller saw a leatherback turtle in the summer of 2015.

Observation: I spoke with a salmon troller who saw a leatherback turtle (Dermochelys coriacea) in the summer of 2015. He recently gave me the date of the sighting and the coordinates. Leatherback turtles are known to be in this area, but it is a rare sighting.

Resource:

Alaska Department of Fish & Game - "Feeding Ecology - Leatherback sea turtles



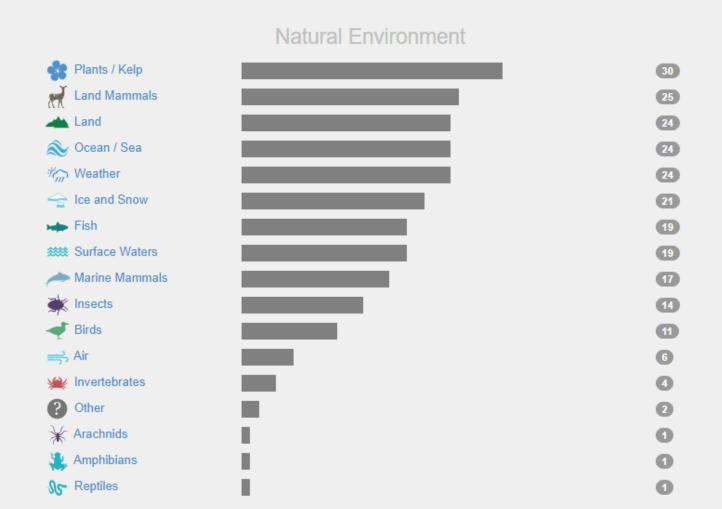




Enter Search Terms

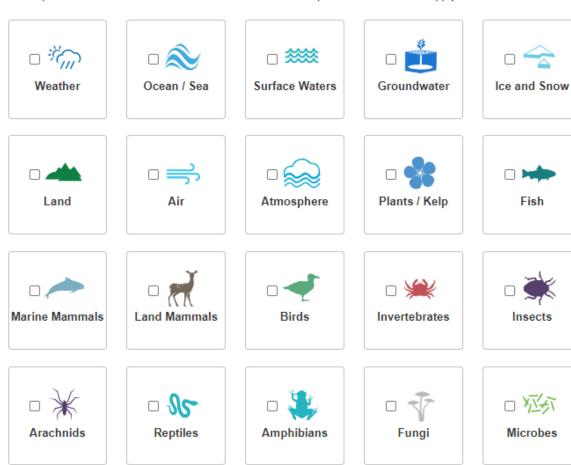
Q View Options →

197 Posts



Natural Environment

What aspects of the natural environment are relevant to this post? Choose all that apply.





Unusual or Unexpected Event

Why is this post unusual or unexpected? What about this event deviates from the norm?

































































Impact on Human Environment

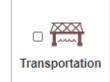
How has the human environment been impacted by the event described in this post?



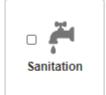






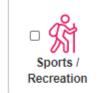
















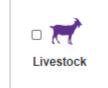


















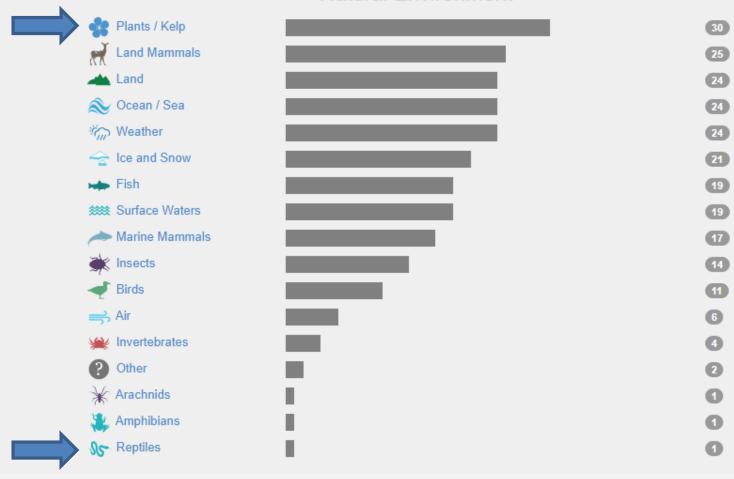




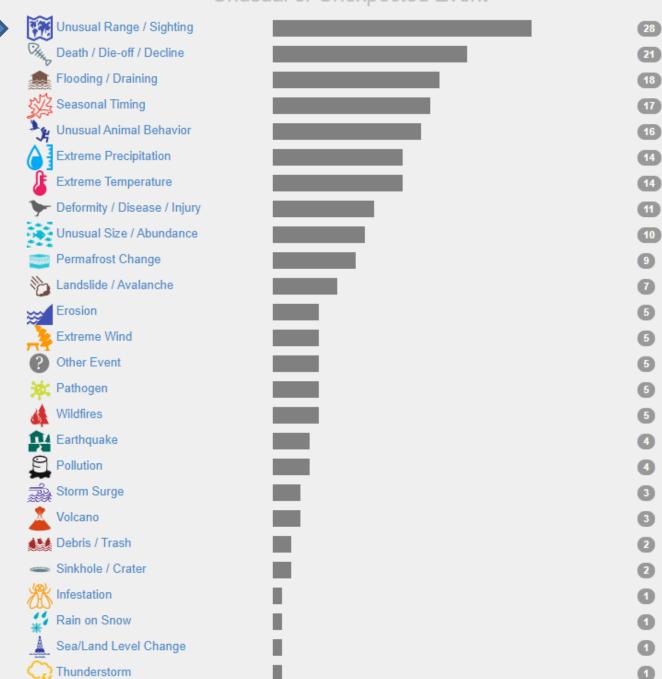




Natural Environment

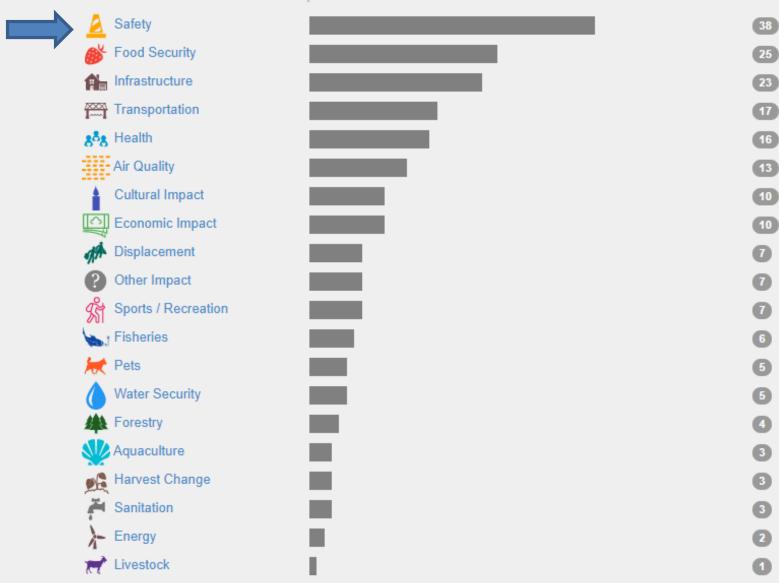


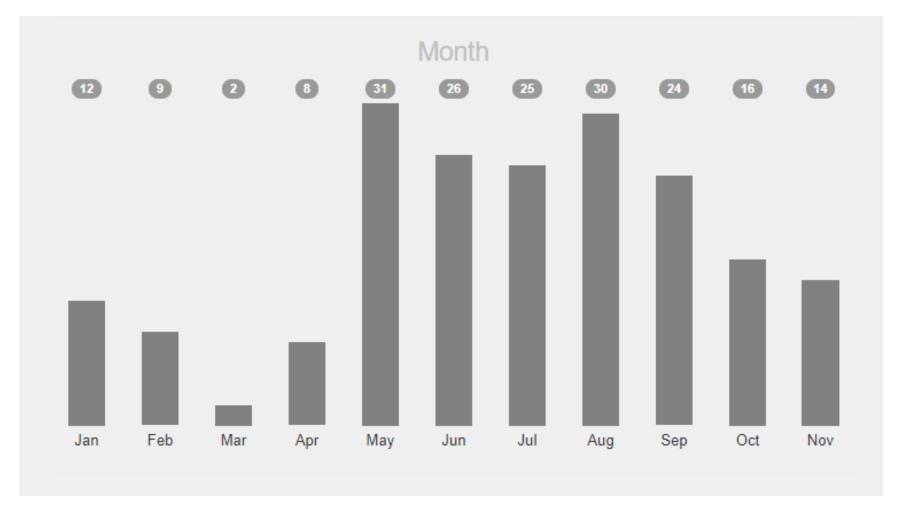
Unusual or Unexpected Event

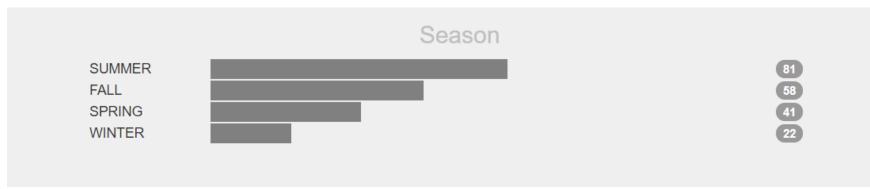




Impact on Human Environment







Winter 2019-20 Alaska Weather & Climate Highlights

Utqiagvik Feb average temperature -26.1°F, coldest month since Feb 1984

Nuiqsut Feb 7th wind chill -82F

Sea Ice February Bering Sea ice extent 100% of average



Kotzebue Dec, Jan & Feb average temp all below normal, first time 3 straight months below normal since 2012

Bethel average Dec-Feb temp +2.5F, coldest since 1998-99 Fairbanks average Dec-Feb temp -10.9F, coldest in 21 years

Anchorage Feb 18th 0.88" precip, 2nd highest Feb daily total

Kodiak low temp
Jan 7th -1F, first
below zero since

Jan 2012

Pet wet

Juneau 5th wettest February 7.78"



Petersburg 40" precip, wettest winter since 2006-07

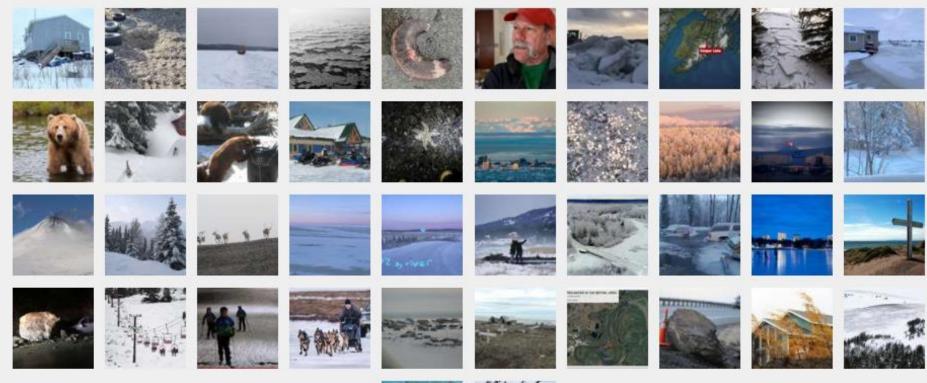
Cold Bay 54F Feb 29th, all-time Feb record high



Data sources: NOAA/NCEI & NWS preliminary and subject to change

Courtesy RickThoman - ACCAP

Topics: All ▼ Date: 12/1/2019-2/28/2020 ▼ Region: Alaska ▼ Type: All ▼







NETWORK

Unusual or Unexpected Event

	·	
Extreme Temperature		9
Death / Die-off / Decline		5
Flooding / Draining		4
Landslide / Avalanche		4
Seasonal Timing		4
Extreme Precipitation		3
Permafrost Change		3
Unusual Animal Behavior		2
Erosion		2
Extreme Wind		2
Unusual Range / Sighting		2
Rain on Snow		2
Sinkhole / Crater		2
Storm Surge		2
Volcano		2
Drought		1
? Other Event		1

Topics: Extreme Temperature ▼ Date: 12/1/2019-2/28/2020 ▼ Region: Alaska ▼ Type: All ▼









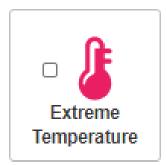


















John Henry



Unalakleet, Alaska, United States

- Q N 63° 52' 23.016" W 160° 47' 17.016"
- Q Nearby



W 88 1

John Henry Observer



Richard L Thoman Jr Consultant

Open water over the ocean creates conditions that lead to hoar frost and rime ice. These conditions impact travel and are expected to become more common as ice forms later in Norton Sound.

Observation by John Henry:

s Amid

View Options ▼

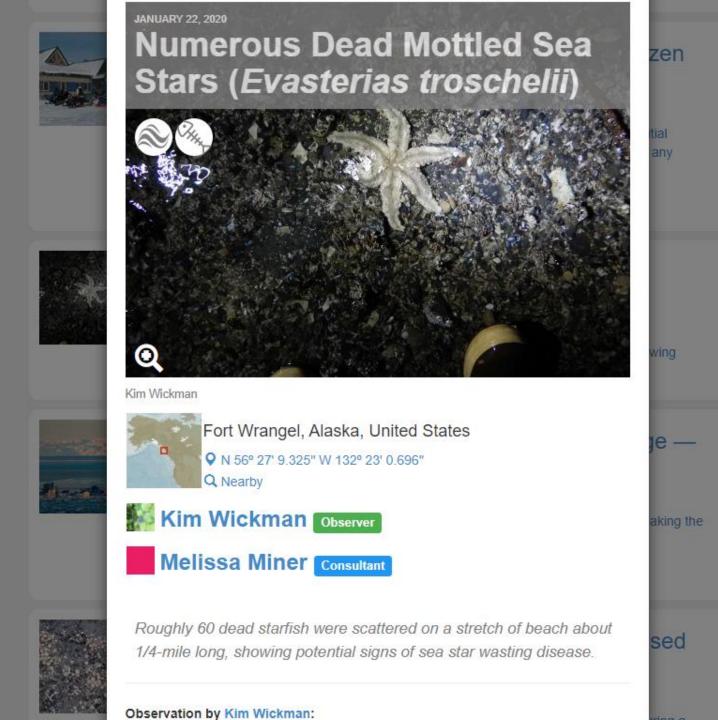
west

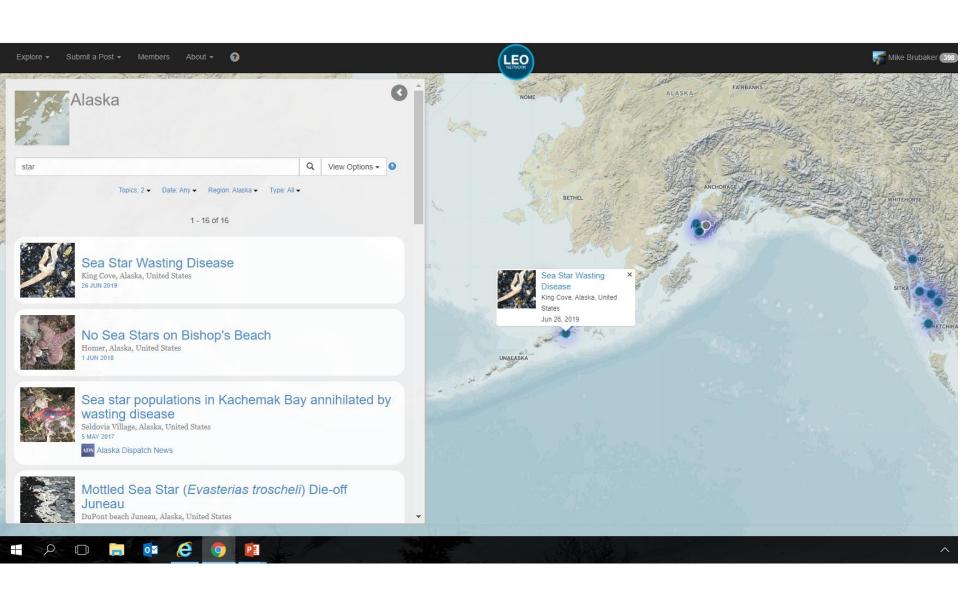
or this time











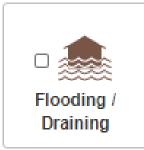




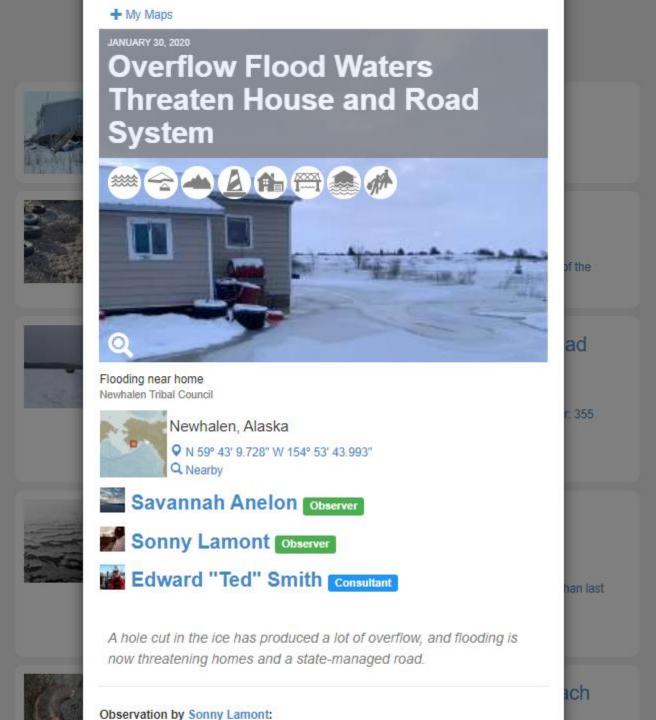




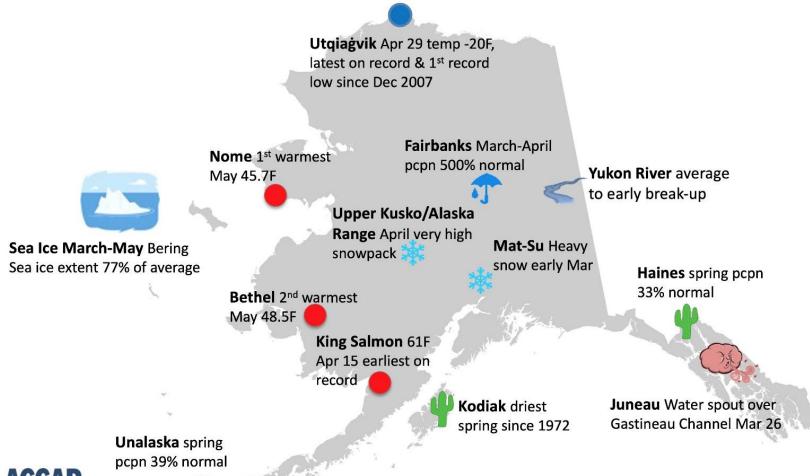






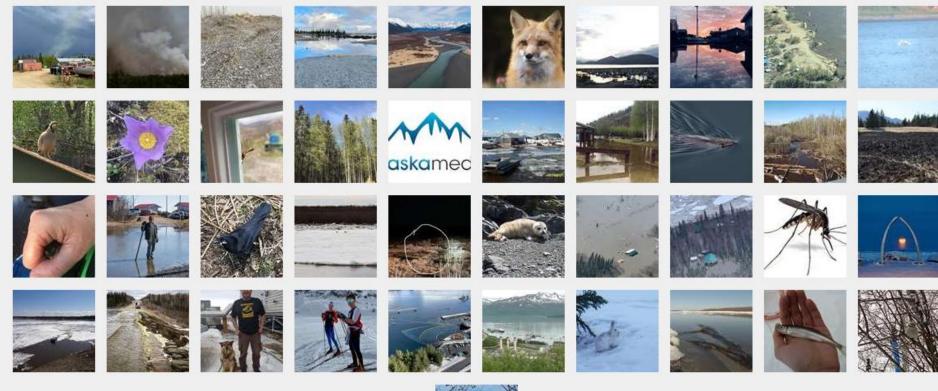


Spring 2020 Alaska Weather & Climate Highlights



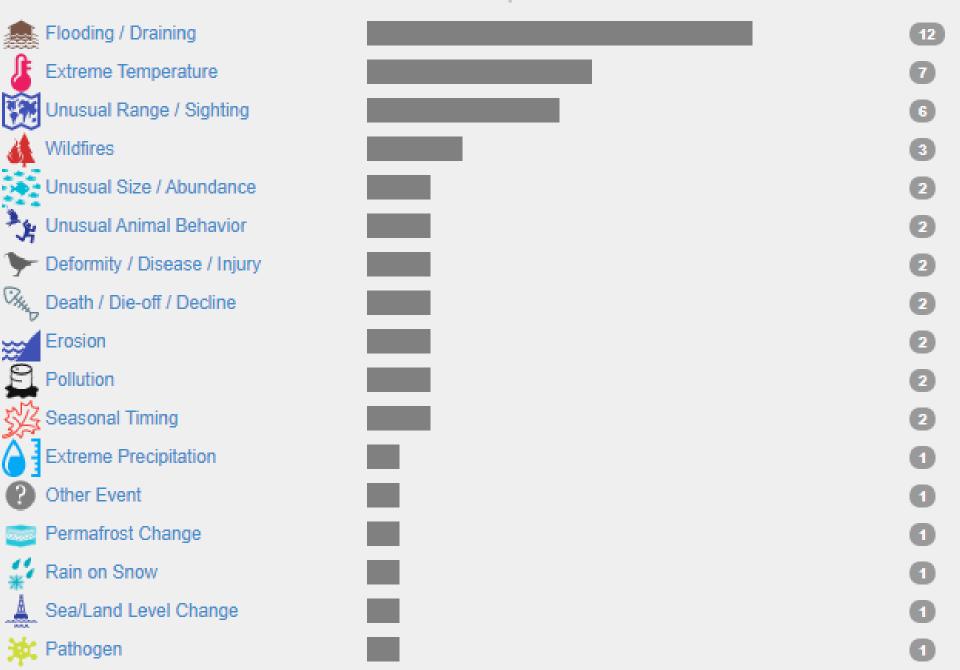


Data sources: NOAA/NCEI & NWS preliminary and subject to change

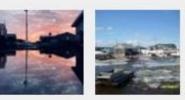




Unusual or Unexpected Event



Topics: Flooding / Draining ▼ Date: 2020 / Spring ▼ Region: Alaska ▼ Type: All ▼

















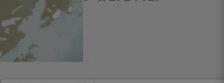












Enter Search Terms

Nunapitchuk Flood Worst In Years





+ My Maps

Nunapitchuk, Alaska, United States

- Q N 60° 53' 48.984" W 162° 27' 33.984"
- Q Nearby

While many communities along the Kuskokwim River escaped major flooding, one small village is still seeing high water.



Or translated into

View a screenshot of the article &

Author: Krysti Shallenberger, Alaska's Energy Desk

the air. In

View Options - 9

the Arctic.



New Ground Rising from First Lake

Noatak, Alaska, United States 28 MAY 2020





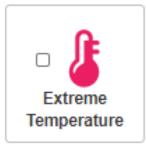


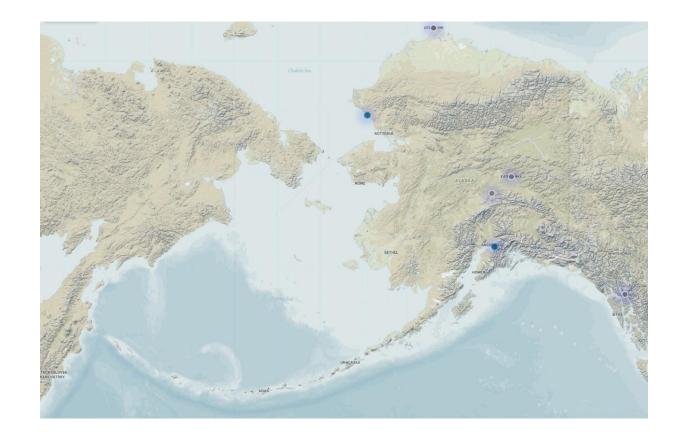


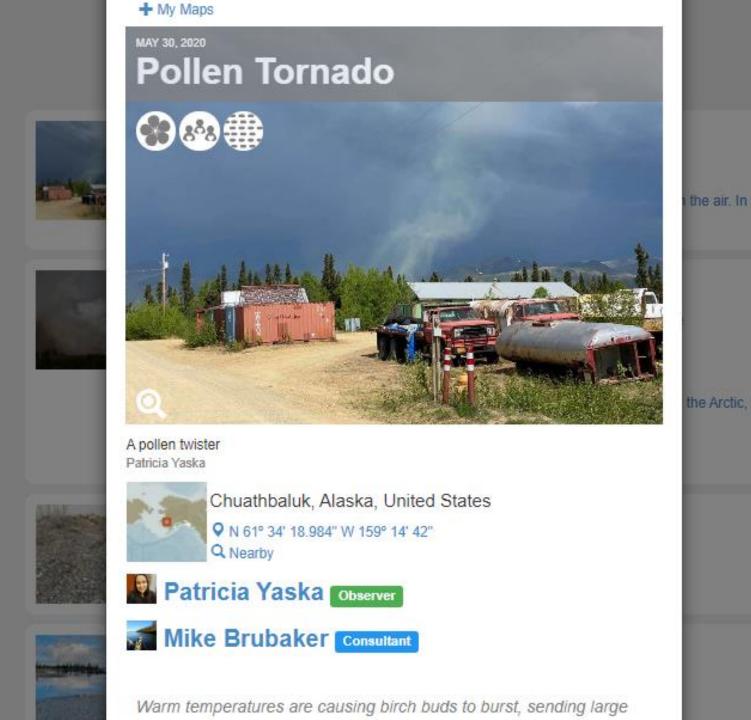


















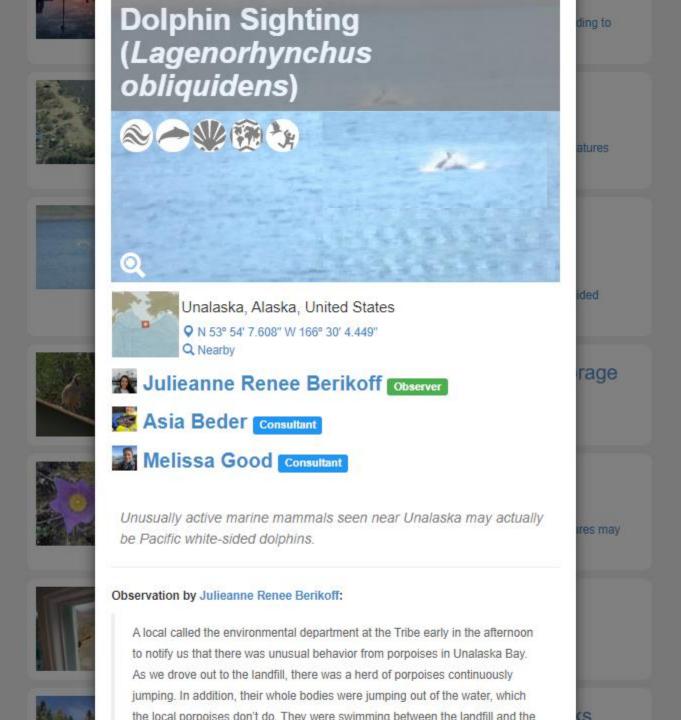












Summer 2020 Alaska Weather & Climate Highlights



Sea Ice June-August Chukchi Sea ice extent 78% of average

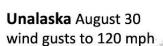


Kotzebue summer rainfall lowest since 1977, 50% average

McKinley River 5.35" rain 24-hours August 1-2, highest on record in Interior

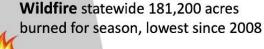


August 30 record low pressure, of 28.40", in Alaska for August





Utqiagvik summer rainfall lowest since 2007, 53% average





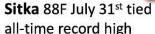
Fairbanks 19 days with thunder, ties 1988 for most in any summer

Anchorage August 9 thunderstorm gave 0.61" rain in one hour, highest 1-hour rainfall on record



Juneau 68 June to August days with rain, most ever

Kodiak average temperature 58.8F, 4th warmest July



Ketchikan June-August rainfall 47.28", highest on record

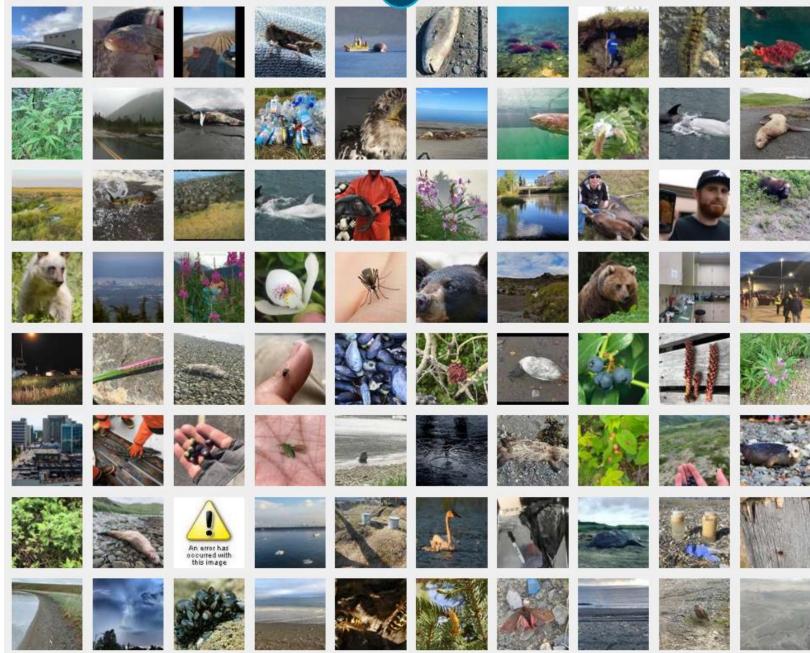
Data sources: NOAA/NCEI & NWS preliminary and subject to change Courtesy RickThoman - ACCAP

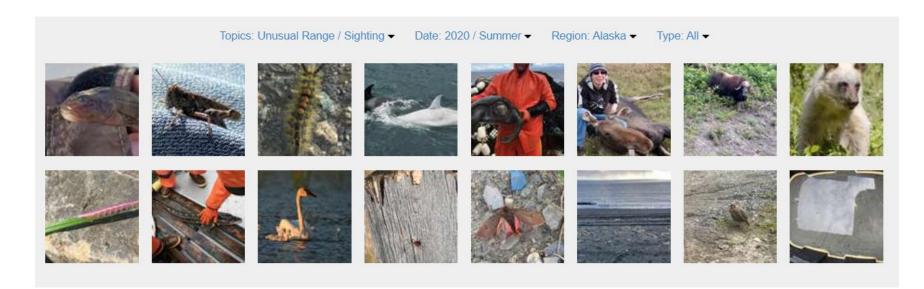


Unusual or Unexpected Event

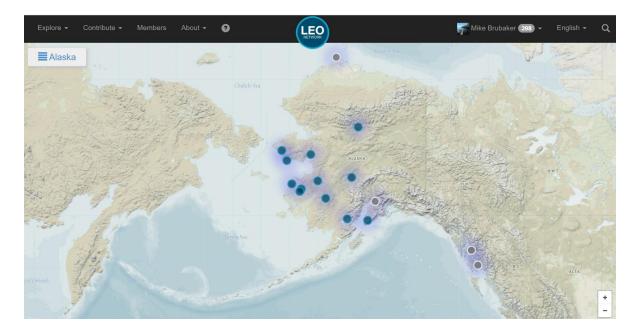
OI	lusual of Offexpected Everit	
Unusual Range / Sighting		17
Death / Die-off / Decline		9
P Deformity / Disease / Injury		7
Unusual Size / Abundance		6
Seasonal Timing		5
Extreme Precipitation		4
Permafrost Change		4
Unusual Animal Behavior		3
Earthquake		3
Legal Debris / Trash		2
Landslide / Avalanche		2
Other Event		2
Pollution		2
Wildfires		2
Erosion		0
Extreme Temperature		0
Extreme Wind		0
Flooding / Draining		0
Infestation		0
Thunderstorm		0
💥 Pathogen		0











Alaska





Patricia Yaska



Napaimute, Alaska, United States

Q N 61° 27' 42.998" W 158° 38' 21.001"

Q Nearby



Patricia Yaska Observer

This is the second sighting of muskox in the Middle Kuskokwim, which is outside their known range.

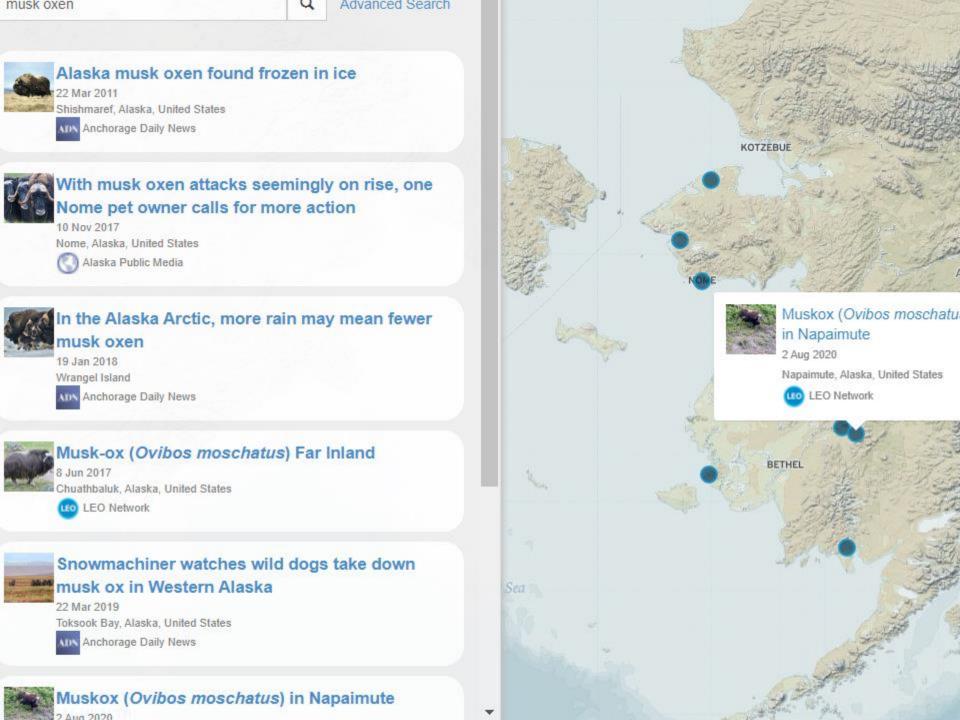
Observation by Patricia Yaska:

View Option









Description Management Uses More Resources 160'0'0'W 150"0"0"W 130°0'0"W Muskox Range Beaufort Sea Chukchi Sea Legend Muskox Range Release Points Bering Gulf of Alaska Sea Bristol Bay 500 125 250

























Washed-up Stellar Sea Lion

(Eumetopias jubatus) on **Front Beach**



Dead female Steller sea lion Julieanne Renee Berikoff



Unalaska, Alaska, United States

O N 53° 52' 28.496" W 166° 31' 14.745"

Q Nearby



Julieanne Renee Berikoff Observer



Melissa Good Consultant



Barbara Mahoney Consultant

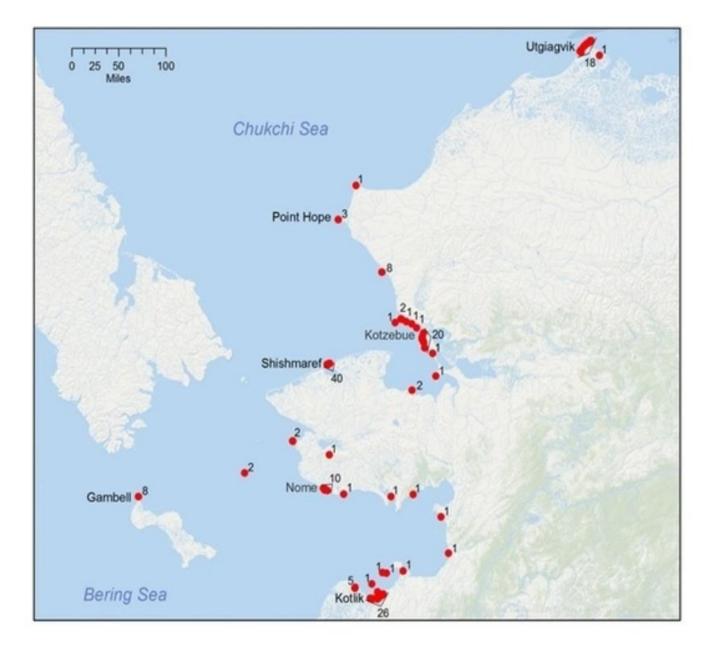


Gay Sheffield Consultant

Female Stellar sea lion found dead on the beach, partially scavenged by eagles. There was no sign of any bullet holes. In addition, there wasn't any other evidence of what happened to the sea lion.

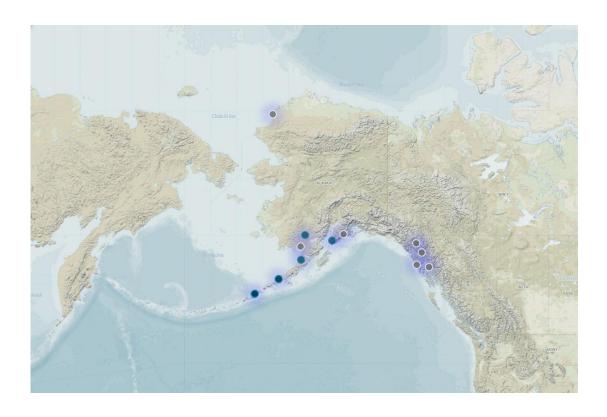






Map of 2019 ice seal strandings in the Bering and Chukchi seas, February 12 through September 4, 2019.













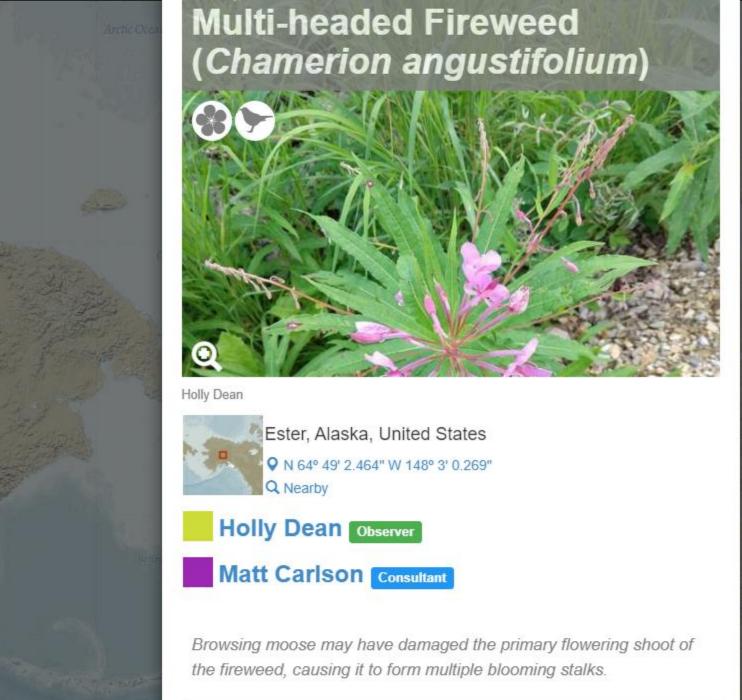




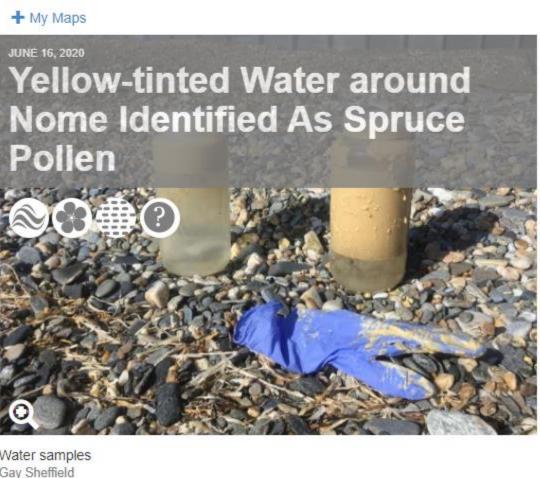












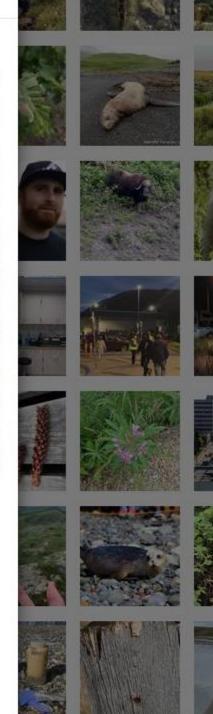
Nome, Alaska, United States

Q N 64° 30' 3.996" W 165° 24' 23.004"

Q Nearby

Gay Sheffield Observer







Autumn 2020 Alaska Weather & Climate Highlights



Utqiagvik tied for 3rd warmest November, 15.3F above normal

Sea Ice autumn Chukchi Sea ice extent 39% of average

> Nome 5th warmest autumn, 5.0F above normal

Wiseman September rainfall 189% of normal

Fairbanks autumn snowfall 33.5", 2nd highest since 1996

Bethel Kuskokwim River partial melt mid-November

Anchorage winter snowpack on November 8, earlier than most recent years

Yakutat autumn precipitation 34% below normal



Haines Hwy November snowfall 70"

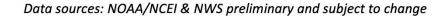
Ketchikan 5st wettest November 30.05" rain

Kodiak drought ending rain late September



Cold Bay 1st freeze September 4th, second earliest on record

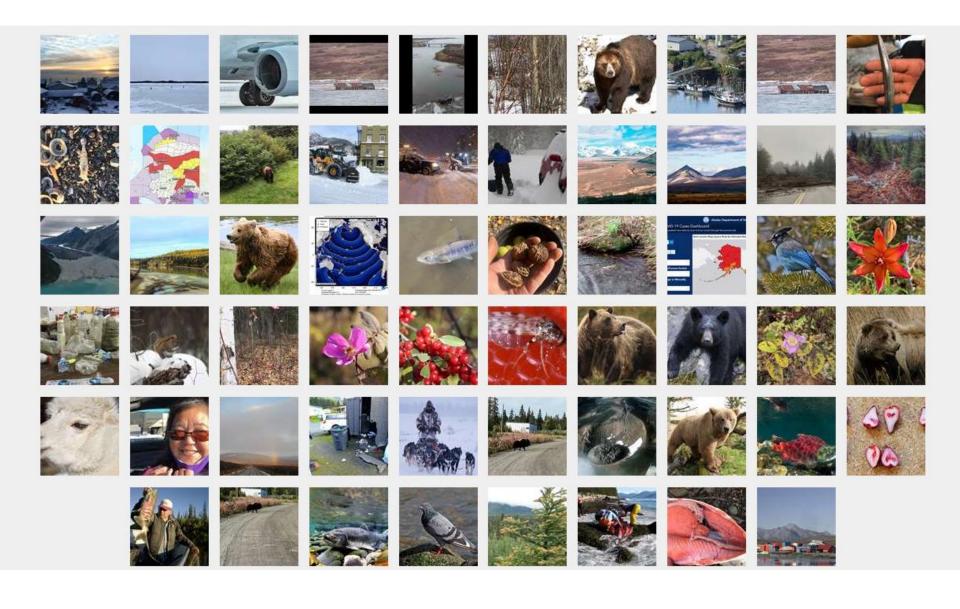






Unusual or Unexpected Event

		·	
3	Unusual Animal Behavior		9
	Extreme Precipitation		8
	Death / Die-off / Decline		7
3	Seasonal Timing		7
F	Unusual Range / Sighting		6
1	Extreme Temperature		4
7	Extreme Wind		4
	Flooding / Draining		4
	Storm Surge		4
	Unusual Size / Abundance		3
***	Erosion		3
1	Landslide / Avalanche		3
淖	¢ Pathogen		3
-	Deformity / Disease / Injury		2
e _{rey} e	Permafrost Change		2
Û	Earthquake		1
3	Other Event		1
	Volcano		1















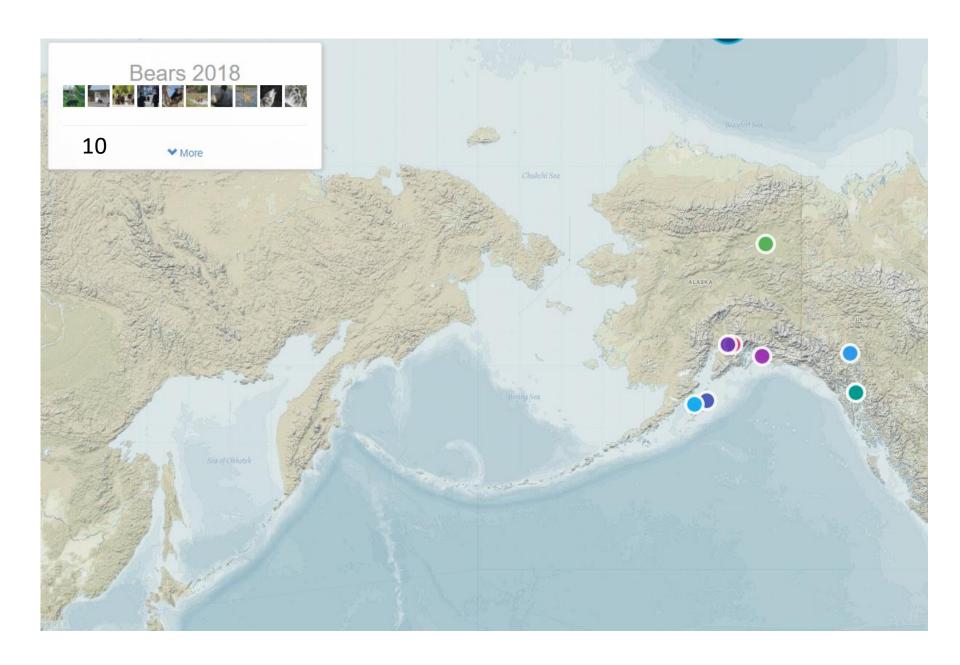


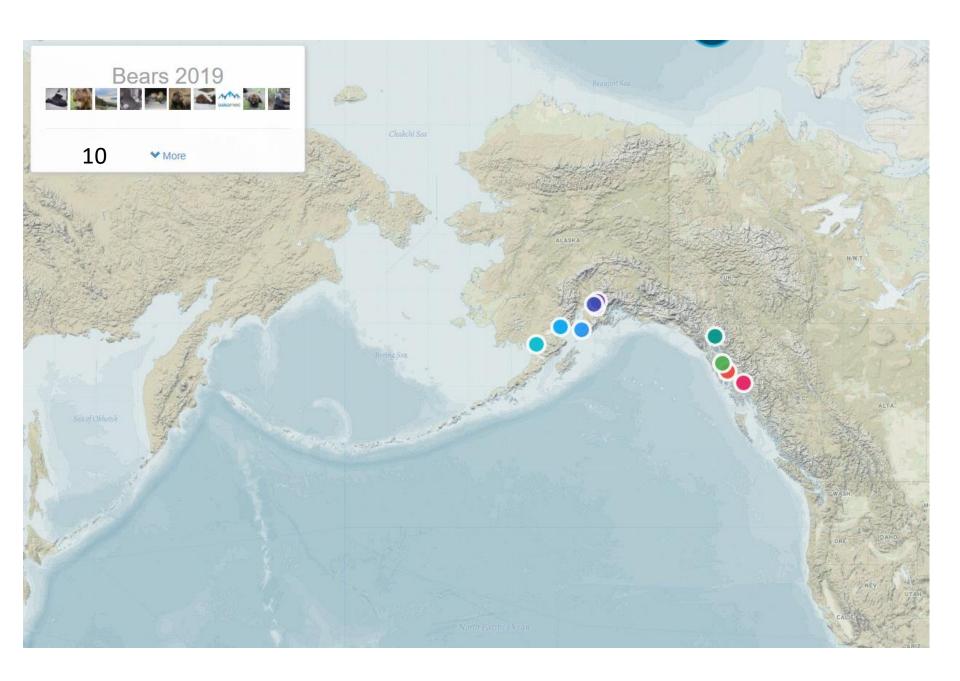




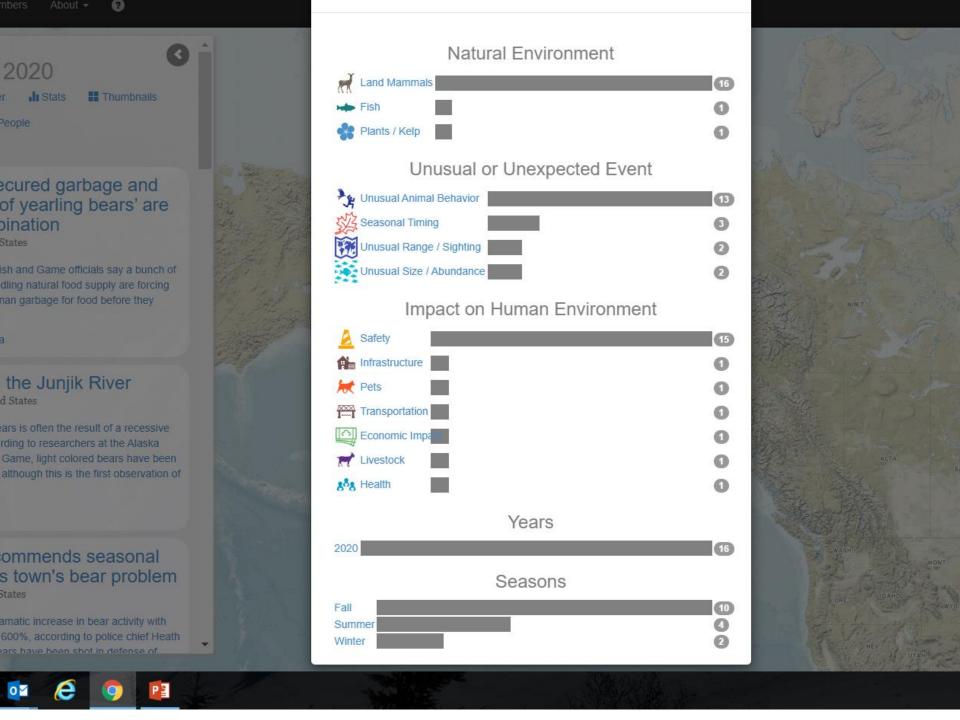












Topics: Extreme Precipitation ▼ Date: 2020 / Fall ▼ Region: Alaska ▼ Type: All ▼







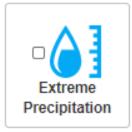




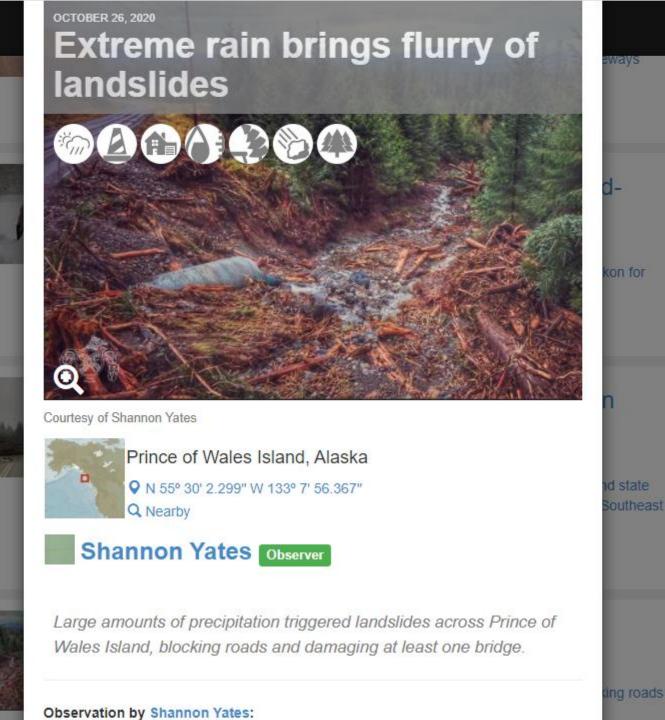














WEATHER

ICE AND SNOW

EXTREME PRECIPITATION

5 NOVEMBER 2020 / O Chilkat Valley News / Chilkat Valley News

Blizzard sets daily snowfall record



Haines, Alaska, United States

Q N 59° 14' 9.42" W 135° 26' 43.188"

Q Nearby

Last weekend's blizzard caused the Haines Borough School District to close M 16 inches of snow fell in less than 24 hours--a record high for daily snowfall at National Weather Service data.



See Also





2 DECEMBER 2020 / Anchorage Daily News / James Brooks

6 reported missing in Haines after record rainfall causes flooding, landslides across Southeast Alaska



Haines, Alaska, United States

Q N 59° 14' 9.42" W 135° 26' 43.188"

Q Nearby

Nearly 12 inches of rain fell on the town of Pelican in 48 hours, and all-time records were set in Juneau, Skagway, Haines, Petersburg and Ketchikan. The City of Haines is sending alerts about the immediate danger of landslides.



See Also





Heavy rains in Yukon and northern B.C. cause mudslides, highway closures

CBC

Haines Junction, Yukon, Canada AUG 19. 2020

TURE

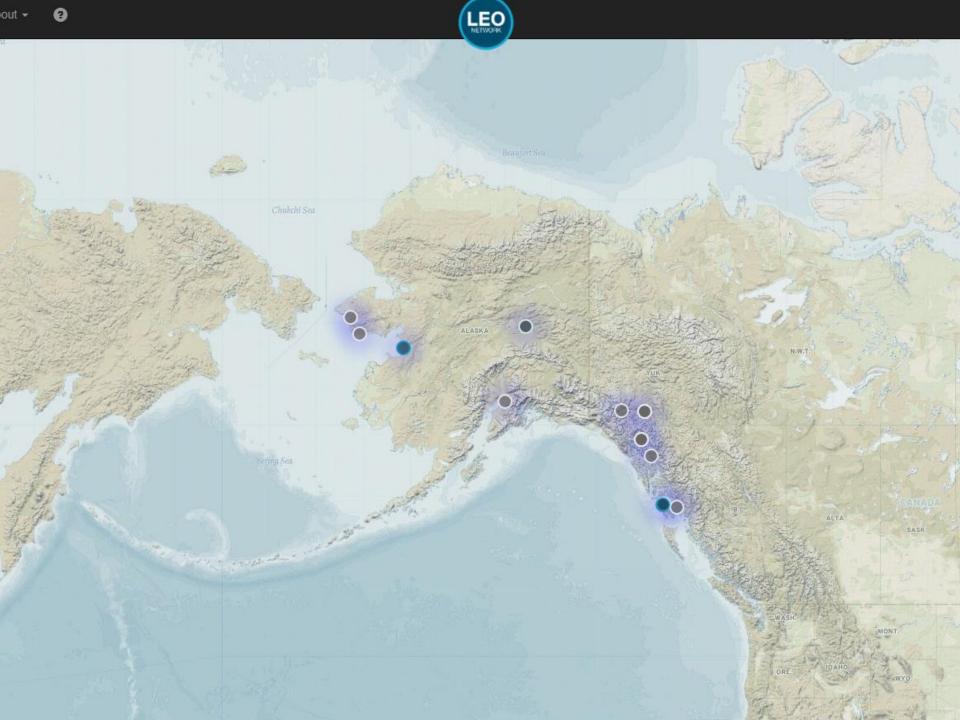
TION

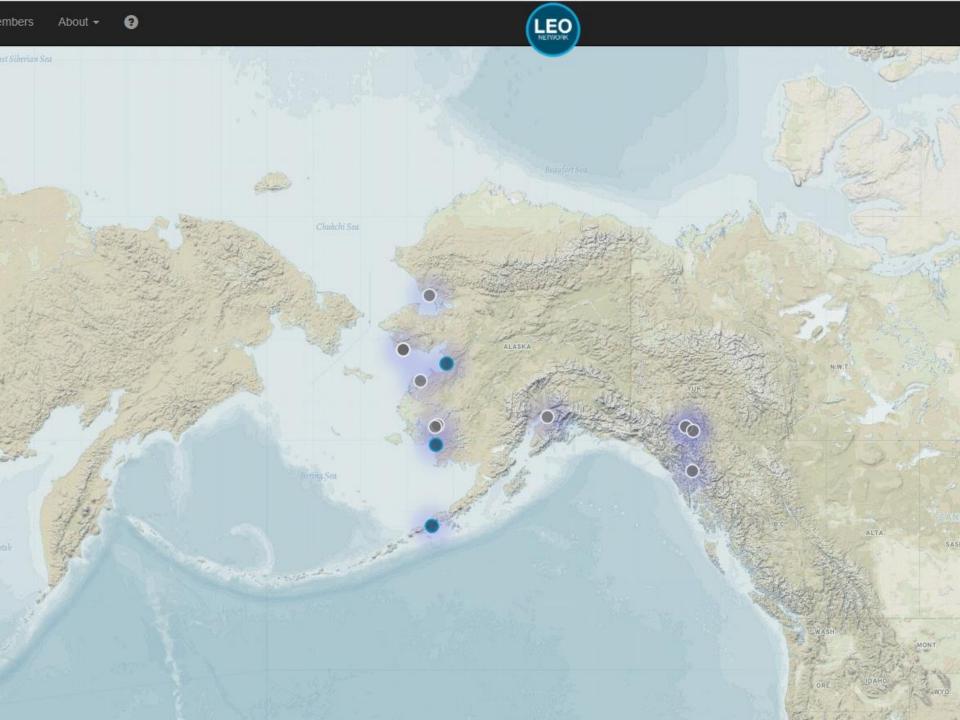
ECIPITATION

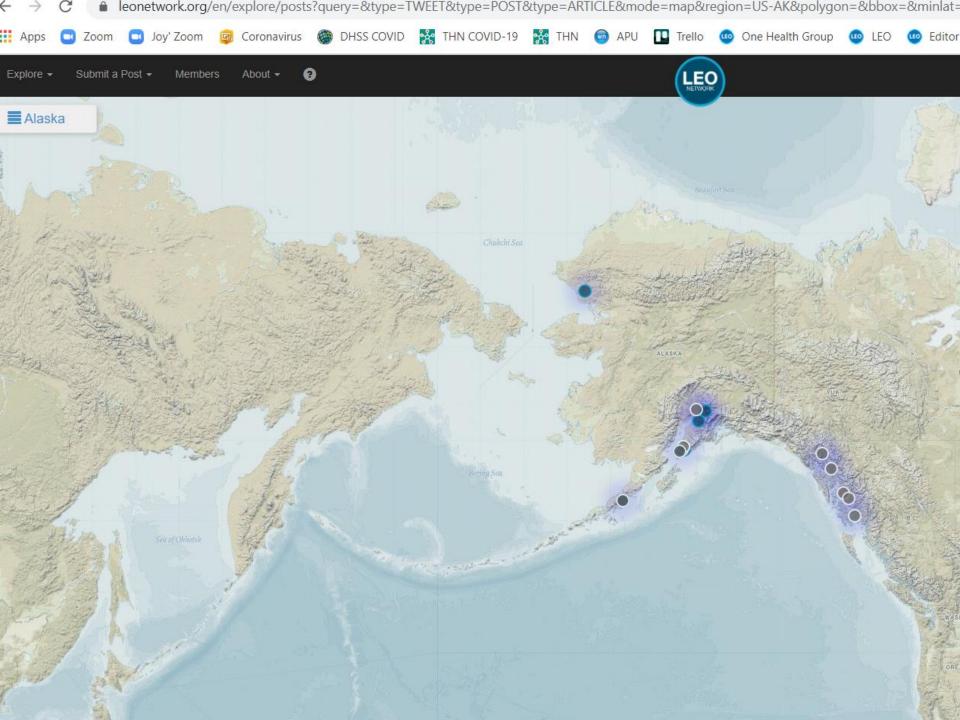
ND

RAINING

WALANCHE







Topics: Death / Die-off / Decline ▼



Region: Alaska -

Type: All ▼









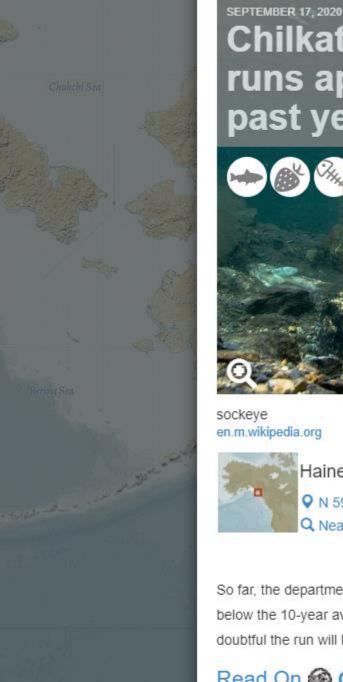












Chilkat sockeye, coho, chum runs appear low compared to past years



en.m.wikipedia.org



Haines, Alaska, United States

Q N 59° 14' 9.42" W 135° 26' 43.188"

Q Nearby

So far, the department has counted just under 37,000 fish at the Chilkat weir, well below the 10-year average of 80,000 fish. Zeiser said at this point in the season, it's doubtful the run will hit the escapement range of 70,000 to 150,000 fish.

Read On @ Chilkat Valley News & Or translated into

Take Home

- Strong signals for early winter included extreme temperatures (both warm and cold), marine invertebrate die-offs, and flooding in western and central Alaska.
- Strong signals in the Spring included extremely warm temperatures in the west, dry conditions in the south and rapid thawing leading to flooding and extreme pollen events.
- In Summer, the posts were dominated by wildlife related events including unusual species sightings and unusual range sightings, marine mammal strandings, and a flurry of posts about unusual plant conditions.
- In Fall, strong signals included harvest failures for salmon, numerous and persistent community-bear conflicts and extreme precipitation events.



www.leonetwork.org



ATCEM Environmental Survey



-What is happening?

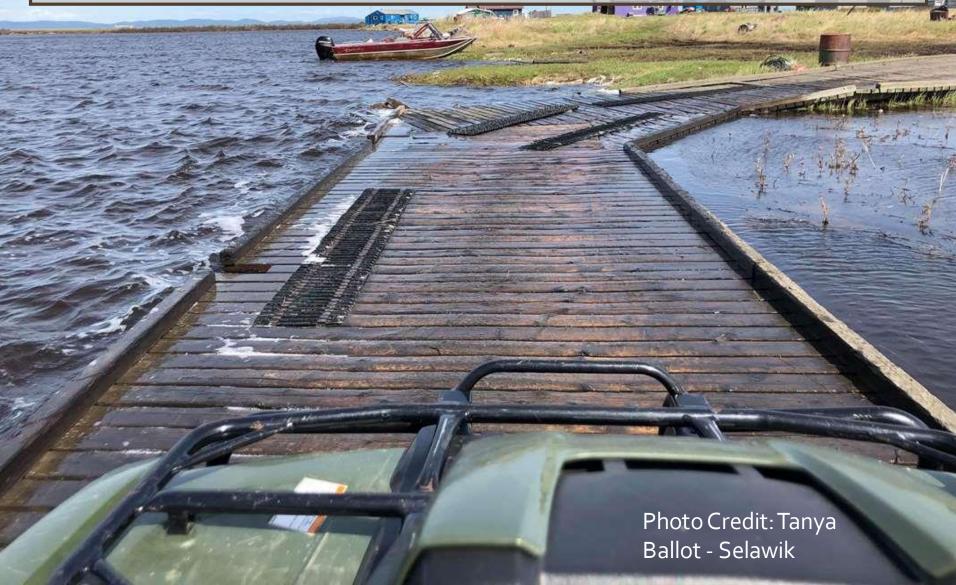
-What are we doing?

-What resources do we need to be successful?













Change in Subsistence



Pollution Events



Change in Air Quality



ATCEM Environmental Survey

-What is happening?

-What are we doing?

-What resources do we need to be successful?





Survey Respondents

• 131 total responses

Southcentral

- 25 respondents from Southcentral Service Area
- 1 from Chugachmiut

North Slope/Northwest Arctic

- 1 from Arctic Slope Native Association
- 16 from Norton Sound Health Corporation
- 4 from Maniilaq

Southeast

- 13 from Southeast Alaska Regional Health Corporation
- 1 from Metlakatla Indian Community

<u>Southwest</u>

- 15 from Bristol Bay Area Health
- 35 from Yukon Kuskokwim Health Corporation
- 4 from Kodiak Area Native Association
- 3 from Eastern Aleutian Tribes

<u>Interior</u>

- 1 Mt. Sanford Tribal Consortium
- 9 from Tanana Chief's Conference
- 1 from Copper River Native Association
- 2 from the Council of Athabascan Tribal Governments