ACCAP

Alaska Center for Climate Assessment and Policy

A NOAA RISA TEAM

Improving the ability of Alaskans to respond to a changing climate

ACCAP.UAF.EDU

Alison York ABoVE meeting Jan 2016

Organization – Core Office

ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

Director: Sarah Trainor

Co-PI John Walsh

Co-I: Nathan Kettle

Program Manager: Tina Buxbaum

Post-Docs – Josie Sam, Melanie Colavito, Brian Brettschnieder

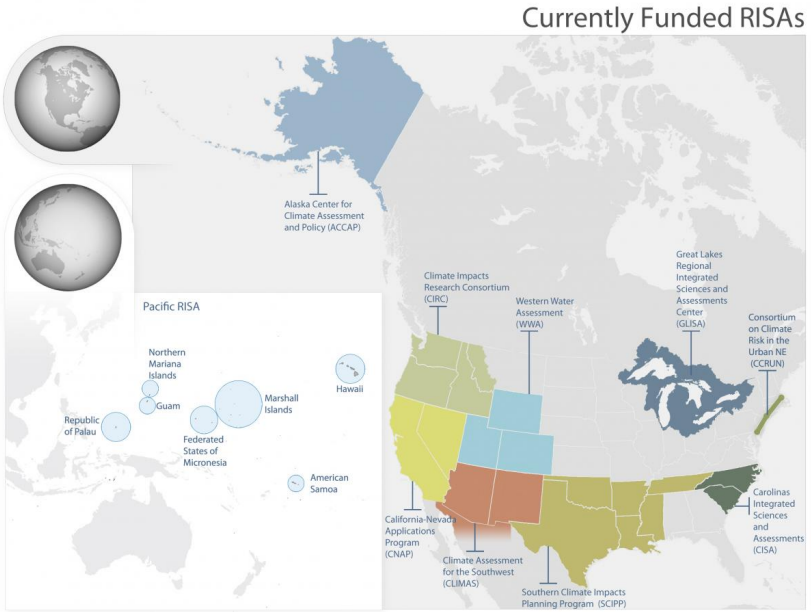
PhD and Masters Students – 3

International Arctic Research Center
IARC
University of Alaska Fairbanks

UAF UNIVERSITY OF ALASKA FAIRBANKS

History

- 2006 w/funding from NOAA
- 1 of 10 RISA's nationwide
- Stakeholder engagement key
  - Extensive collaboration with NWS
- Key activities
  - Webinars
  - Online tools
  - AK Climate Dispatch
  - Peer-reviewed publications
  - Projects
    - Ocean Acidification
    - Social Network Analysis
    - Arctic research needs assessment
    - Sea Ice
    - Extreme Events



ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

Steering Committee

NWS

NOAA

USFWS/Landscape Conservation Coops

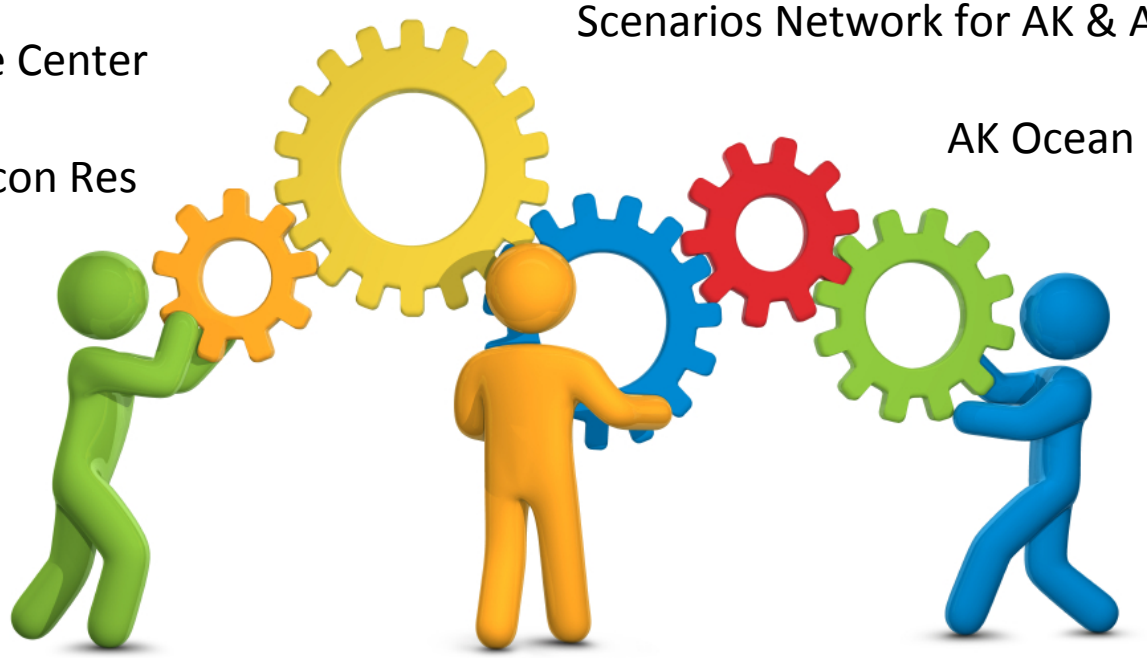
Scenarios Network for AK & Arctic Planning

AK Climate Science Center

AK Ocean Obs System

UAAnch/Inst Soc Econ Res

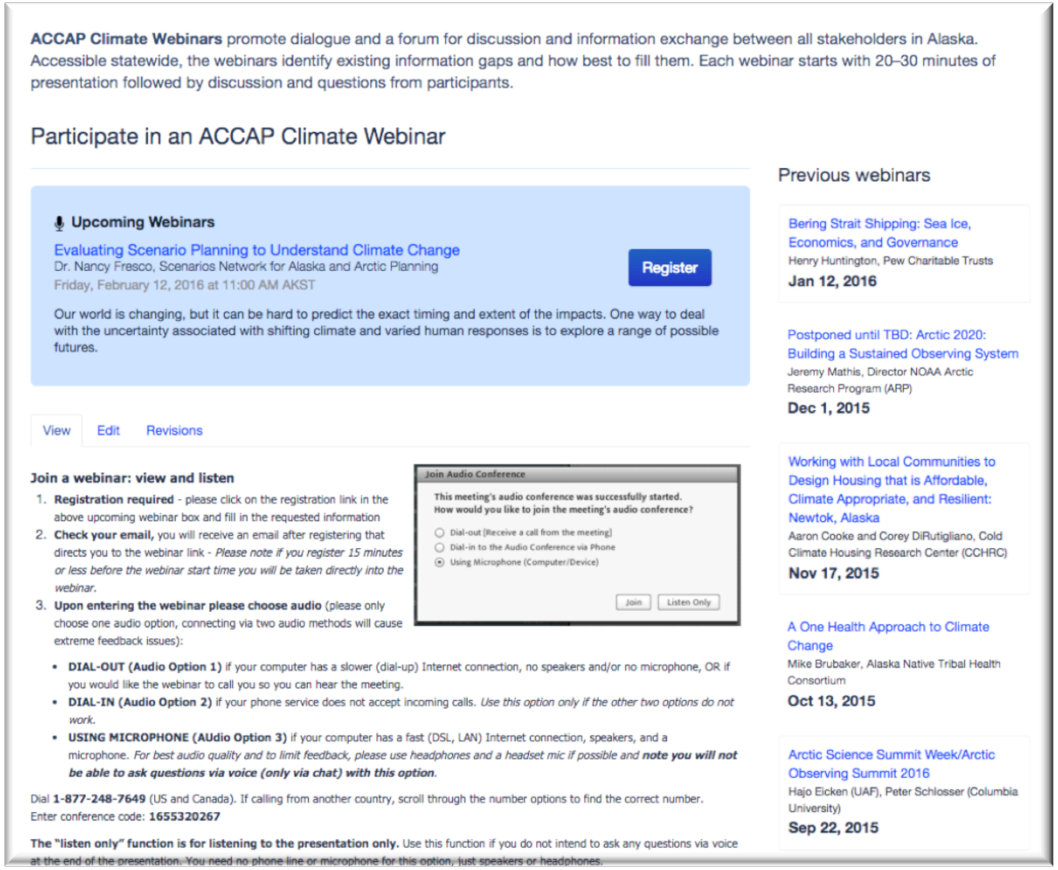
US Arctic Res Commission



Eskimo Walrus Commission

AK Sea Grant

Webinars



ACCAP Climate Webinars promote dialogue and a forum for discussion and information exchange between all stakeholders in Alaska. Accessible statewide, the webinars identify existing information gaps and how best to fill them. Each webinar starts with 20–30 minutes of presentation followed by discussion and questions from participants.

Participate in an ACCAP Climate Webinar

Upcoming Webinars

Evaluating Scenario Planning to Understand Climate Change
Dr. Nancy Fresco, Scenarios Network for Alaska and Arctic Planning
Friday, February 12, 2016 at 11:00 AM AKST

Register

Our world is changing, but it can be hard to predict the exact timing and extent of the impacts. One way to deal with the uncertainty associated with shifting climate and varied human responses is to explore a range of possible futures.

View Edit Revisions

Join a webinar: view and listen

1. **Registration required** - please click on the registration link in the above upcoming webinar box and fill in the requested information
2. **Check your email,** you will receive an email after registering that directs you to the webinar link - *Please note if you register 15 minutes or less before the webinar start time you will be taken directly into the webinar.*
3. **Upon entering the webinar please choose audio** (please only choose one audio option, connecting via two audio methods will cause extreme feedback issues):

Join Audio Conference
This meeting's audio conference was successfully started.
How would you like to join the meeting's audio conference?
Dial-out [Receive a call from the meeting]
Dial-in to the Audio Conference via Phone
Using Microphone (Computer/Device)
Join Listen Only

- **DIAL-OUT (Audio Option 1)** if your computer has a slower (dial-up) Internet connection, no speakers and/or no microphone, OR if you would like the webinar to call you so you can hear the meeting.
- **DIAL-IN (Audio Option 2)** if your phone service does not accept incoming calls. *Use this option only if the other two options do not work.*
- **USING MICROPHONE (AUdio Option 3)** if your computer has a fast (DSL, LAN) Internet connection, speakers, and a microphone. *For best audio quality and to limit feedback, please use headphones and a headset mic if possible and* ***note you will not be able to ask questions via voice (only via chat) with this option.***

Dial **1-877-248-7649** (US and Canada). If calling from another country, scroll through the number options to find the correct number.
Enter conference code: **1655320267**

The "listen only" function is for listening to the presentation only. Use this function if you do not intend to ask any questions via voice at the end of the presentation. You need no phone line or microphone for this option, just speakers or headphones.

Previous webinars

Bering Strait Shipping: Sea Ice, Economics, and Governance
Henry Huntington, Pew Charitable Trusts
Jan 12, 2016

Postponed until TBD: Arctic 2020: Building a Sustained Observing System
Jeremy Mathis, Director NOAA Arctic Research Program (ARP)
Dec 1, 2015

Working with Local Communities to Design Housing that is Affordable, Climate Appropriate, and Resilient: Newtok, Alaska
Aaron Cooke and Corey DiRutigliano, Cold Climate Housing Research Center (CCHRC)
Nov 17, 2015

A One Health Approach to Climate Change
Mike Brubaker, Alaska Native Tribal Health Consortium
Oct 13, 2015

Arctic Science Summit Week/Arctic Observing Summit 2016
Hajo Eicken (UAF), Peter Schlosser (Columbia University)
Sep 22, 2015

Diverse Topics:

- Bering Strait Shipping
- Climate appropriate housing construction in Newtok, AK
- One Health Approach to Climate Change
- The North Pacific SST: The BLOB
- Changing stream flow patters in the boreal forest

- Average online attendance of 80+ participants with maximum attendance of 180+

https://accap.uaf.edu/webinars

ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

Satellite Sites for the ACCAP Climate Webinar Series

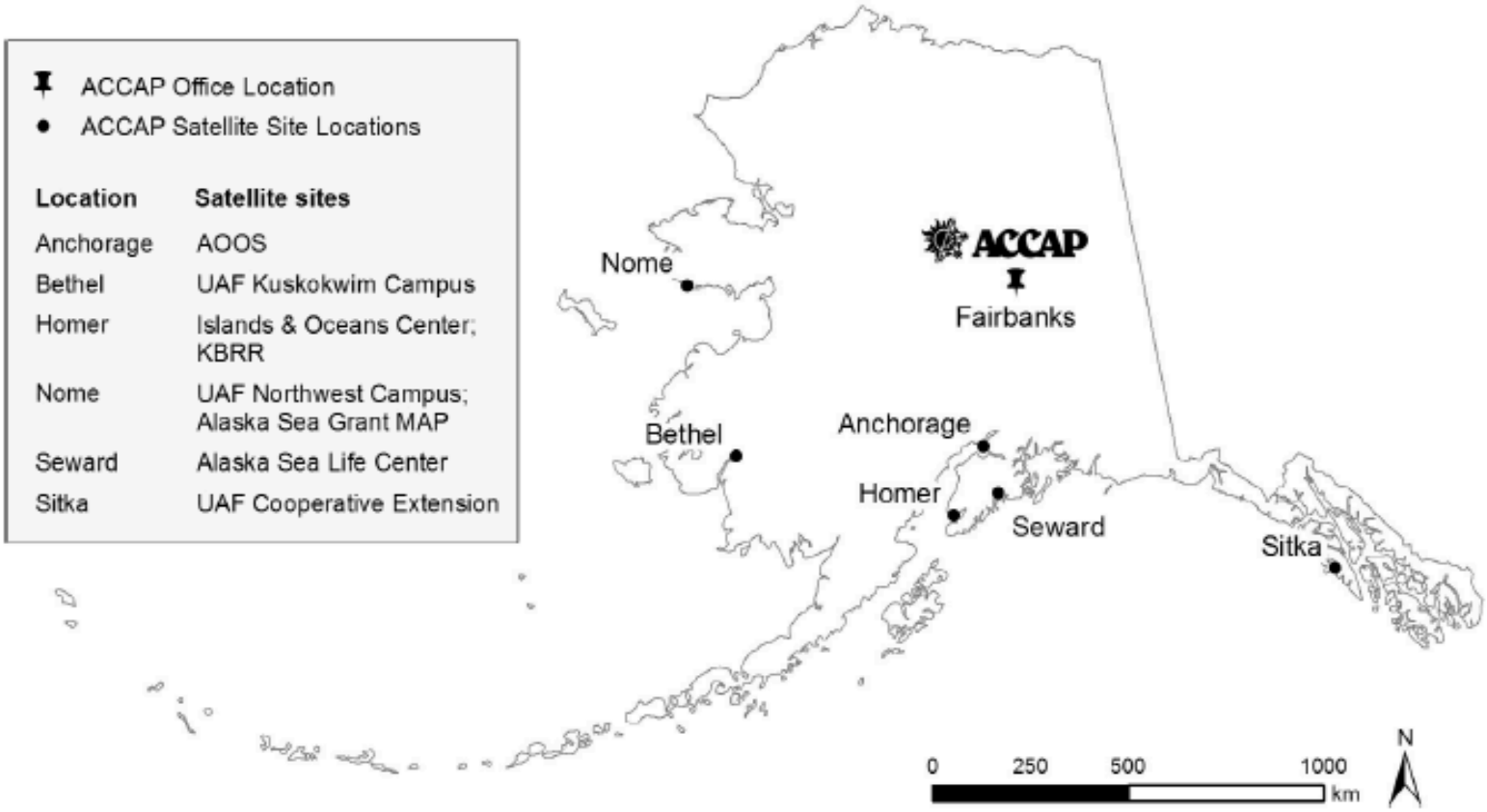


Fig. 1. Locations of active satellite sites.

ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

NWS PARTNERSHIP

ACCAP	NWS
real-time data	Network of stakeholders
High quality projections	Graphic design
Interpretations of climate data	Engagement technology

Alaska Climate & Weather Highlights Tool

Give Feedback

Choose date range:

2015-02 to 2015-02

Show date range

Note: Long date ranges can take a long time to load.

Daily Events

- Freezing Rain in Southcentral
- Record High Temperature at King Salmon
- Record High Temperature at Nome
- Record High Temperature at Sitka
- Record High Temperature at Yakutat
- Winter Rain in Fairbanks

Multi-Day Events

- Snow in Southeast

Monthly Events

Seasonal and Longer

Filter by type:

- High Rain
- Low Rain
- High Snow
- Low Snow
- Freezing Rain
- Icing
- Flooding
- Wind Event
- Cyclone
- Thunderstorm and Lightning
- Blizzard
- High Temperature
- Low Temperature
- Unusual Animal Sighting
- Change
- Wildfire

" I am not using these tools to make day-to-day decisions, but do use the information regularly to support the long-term climate monitoring efforts for the park service."

Please take a few minutes to provide us with feedback:

- https://accap.uaf.edu/?q=tools/climate_highlights#date/2015-02

Don't Know

Do you find the tool is easy to use?

Yes

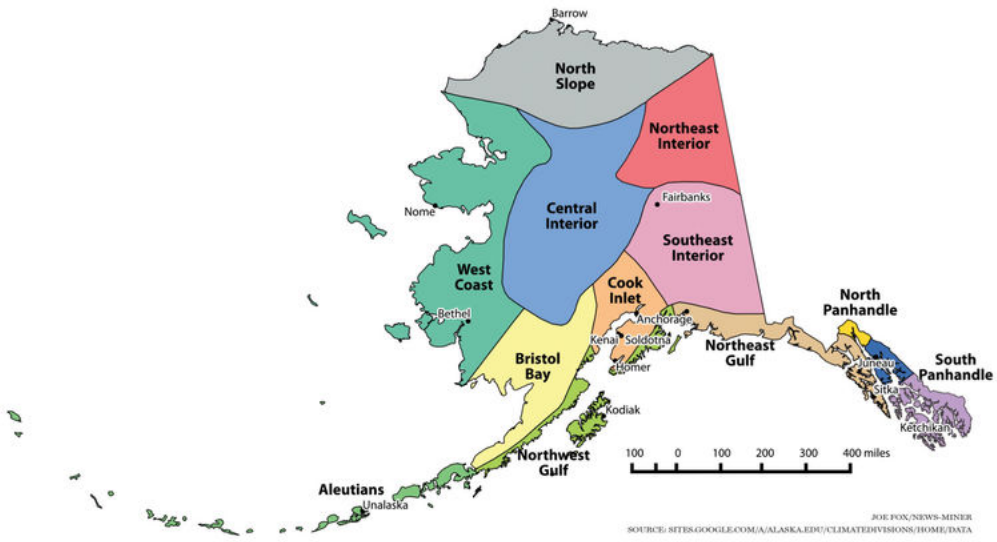
No

NATIONAL WEATHER SERVICE

ACCAP Alaska Center for Climate Assessment and Policy

A NOAA RISA TEAM

Climate Divisions to Construct Anomalies & Trends in Alaska



Peter Bieniek, University of Alaska Fairbanks

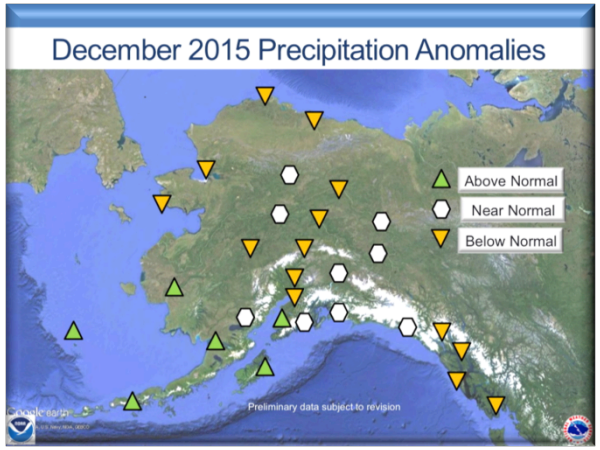
James Partain, NOAA Alaska Regional Climate Services Director (NCDC)

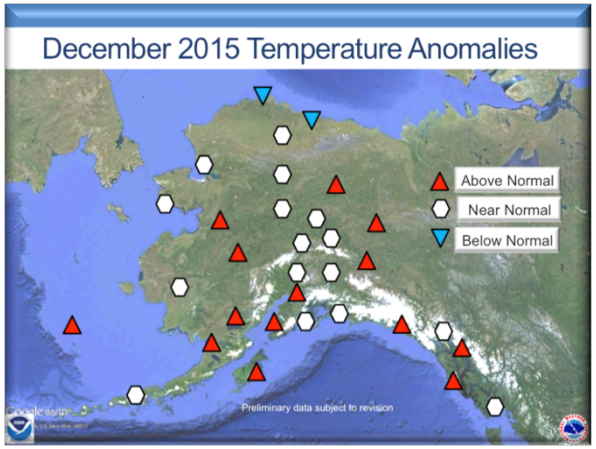
Climate Science and Services Manager, NWS Alaska Region

https://sites.google.com/a/alaska.edu/climatedivisions/

ACCAP Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

NWS Alaska Climate Forecast Briefings





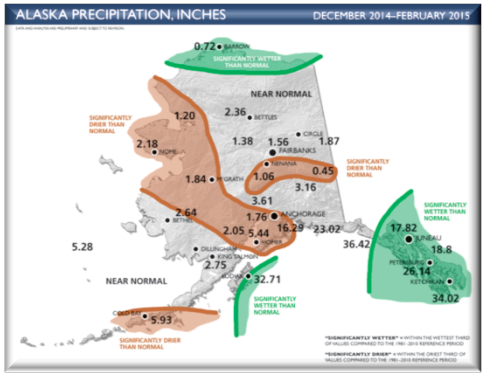
Rick Thoman
Climate Science and Services Manager
Environmental & Scientific Services Division
NWS Alaska Region

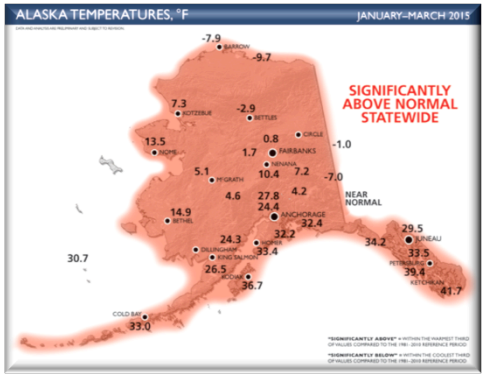
https://accap.uaf.edu/NWS_Briefings

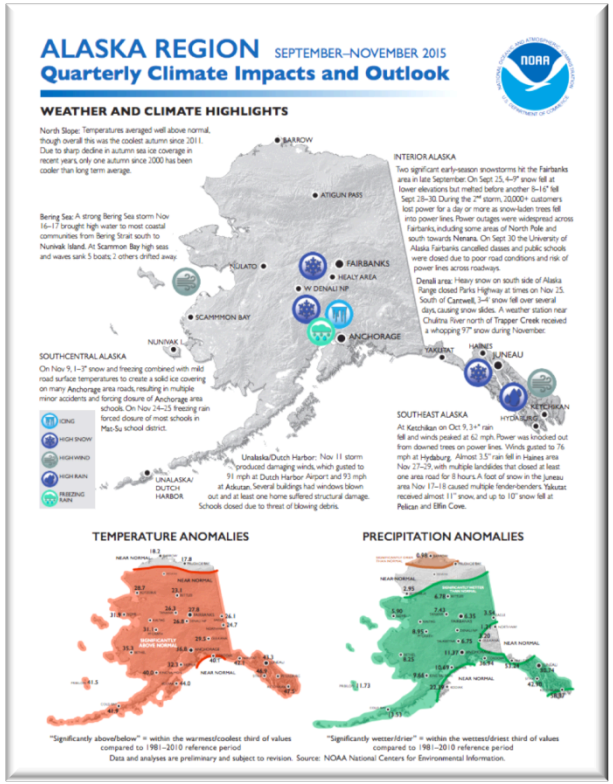
ALASKA FIRE SCIENCE CONSORTIUM

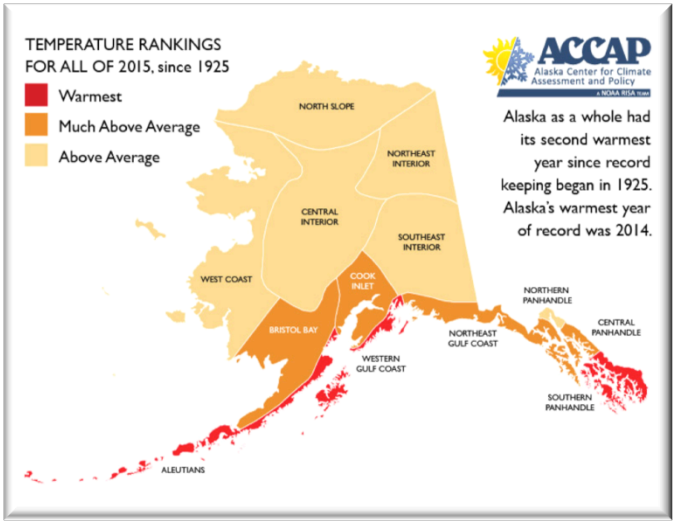
ACCAP Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

Quarterly Climate Impacts & Outlook Graphics*







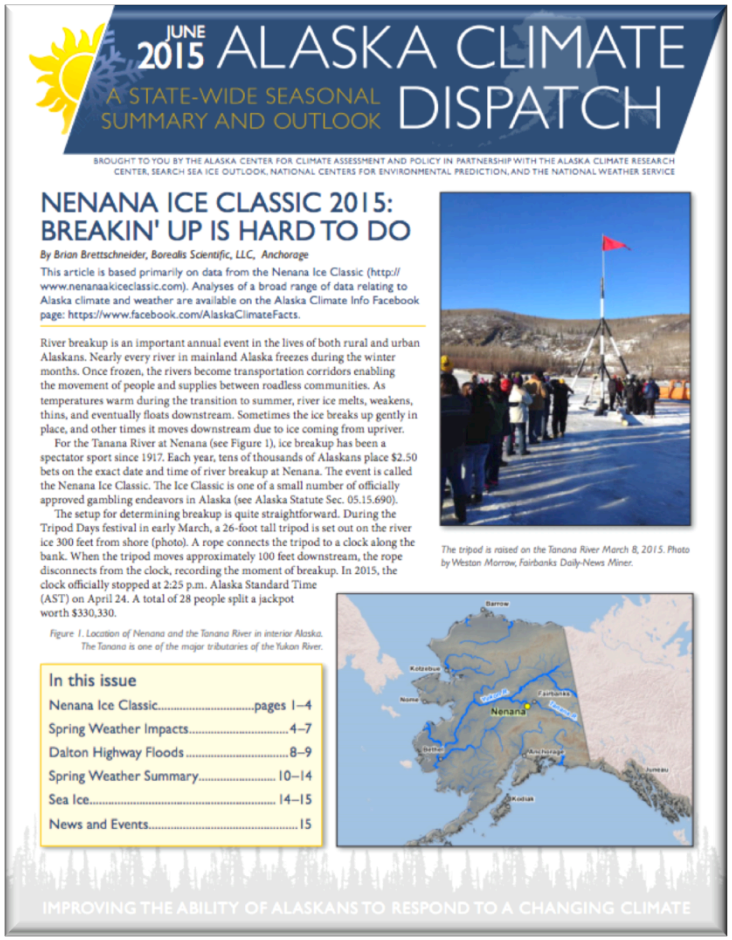


*NCEI/NIDIS product

http://www.drought.gov/drought/content/resources/reports

ACCAP Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

Alaska Climate Dispatch



JUNE 2015 ALASKA CLIMATE DISPATCH

A STATE-WIDE SEASONAL SUMMARY AND OUTLOOK

BROUGHT TO YOU BY THE ALASKA CENTER FOR CLIMATE ASSESSMENT AND POLICY IN PARTNERSHIP WITH THE ALASKA CLIMATE RESEARCH CENTER, SEARCH SEA ICE OUTLOOK, NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION, AND THE NATIONAL WEATHER SERVICE

NENANA ICE CLASSIC 2015: BREAKIN' UP IS HARD TO DO

By Brian Brettschneider, Borealis Scientific, LLC, Anchorage

This article is based primarily on data from the Nenana Ice Classic (http://www.nenanaakiceclassic.com). Analyses of a broad range of data relating to Alaska climate and weather are available on the Alaska Climate Info Facebook page: https://www.facebook.com/AlaskaClimateFacts.

River breakup is an important annual event in the lives of both rural and urban Alaskans. Nearly every river in mainland Alaska freezes during the winter months. Once frozen, the rivers become transportation corridors enabling the movement of people and supplies between roadless communities. As temperatures warm during the transition to summer, river ice melts, weakens, thins, and eventually floats downstream. Sometimes the ice breaks up gently in place, and other times it moves downstream due to ice coming from upriver.

For the Tanana River at Nenana (see Figure 1), ice breakup has been a spectator sport since 1917. Each year, tens of thousands of Alaskans place $2.50 bets on the exact date and time of river breakup at Nenana. The event is called the Nenana Ice Classic. The Ice Classic is one of a small number of officially approved gambling endeavors in Alaska (see Alaska Statute Sec. 05.15.690).

The setup for determining breakup is quite straightforward. During the Tripod Days festival in early March, a 26-foot tall tripod is set out on the river ice 300 feet from shore (photo). A rope connects the tripod to a clock along the bank. When the tripod moves approximately 100 feet downstream, the rope disconnects from the clock, recording the moment of breakup. In 2015, the clock officially stopped at 2:25 p.m. Alaska Standard Time (AST) on April 24. A total of 28 people split a jackpot worth $330,330.

Figure 1. Location of Nenana and the Tanana River in interior Alaska. The Tanana is one of the major tributaries of the Yukon River.

The tripod is raised on the Tanana River March 8, 2015. Photo by Weston Morrow, Fairbanks Daily-News Miner.

In this issue

IMPROVING THE ABILITY OF ALASKANS TO RESPOND TO A CHANGING CLIMATE

- Published quarterly
- written for a non-technical audience,
- features seasonal weather and climate summaries as well as weather, wildlife, and sea ice outlooks.

https://accap.uaf.edu/library/dispatches

NATIONAL WEATHER SERVICE

ACCAP Alaska Center for Climate Assessment and Policy

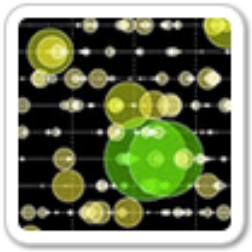
A NOAA RISA TEAM

http://seaiceatlas.snap.uaf.edu/

ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM

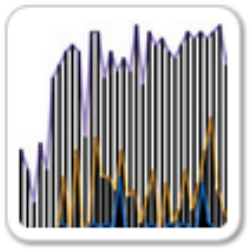
Community Charts

Explore temperature and precipitation histories and projections for thousands of communities across Alaska and Canada



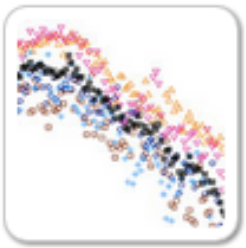
Daily Precipitation

Analyze historical and projected daily precipitation amounts for communities across Alaska



Extreme Weather

Explore CMIP5 quantile-mapped daily data to analyze the frequency of extreme daily temperature and wind events from 1958 and projected through 2100



Modeled Sea Ice Coverage

Explore and visualize various models of historical and projected arctic sea ice extent and concentration through 2099

Sea Ice and Wind

Examine projected interactions between monthly sea ice concentrations and extreme wind events

Stay in touch.

Subscribe to our mailing list: Email Address Subscribe

Alaska Center for Climate Assessment & Policy
930 Koyukuk Drive
Fairbanks, Alaska 99709 (map)
phone: (907) 474-7812
fax: (907) 474-7151
email: accap@uaf.edu
Terms of Use

ACCAP is a NOAA Climate Program Office Climate & Societal Interactions RISA Program

https://accap.uaf.edu/

OR email Tina Buxbaum
tmbuxbaum@alaska.edu

ACCAP
Alaska Center for Climate Assessment and Policy
A NOAA RISA TEAM