

COCORAHS IN ALASKA 2022

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NOAA/NWS Regional HQ, Anchorage

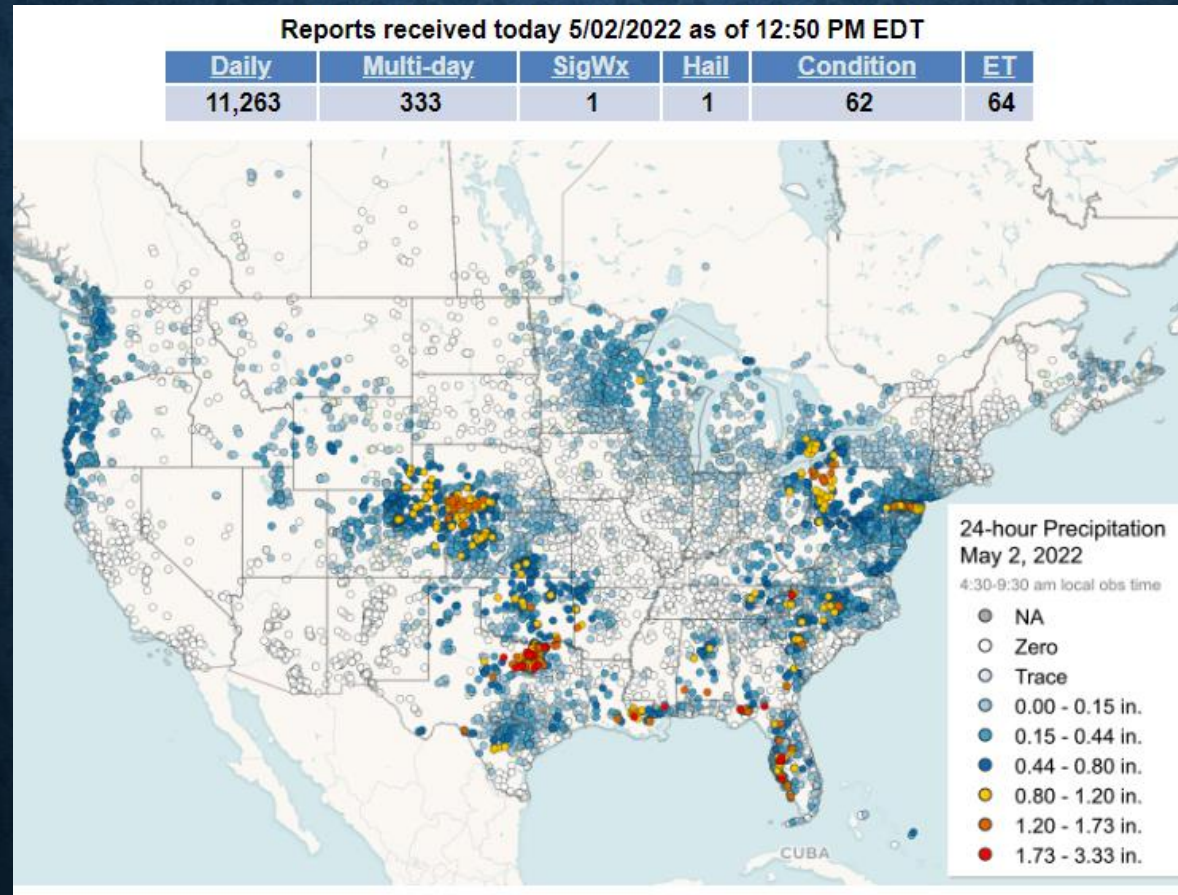
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Director - Alaska Climate Research Center

Geophysical Institute, University of Alaska Fairbanks

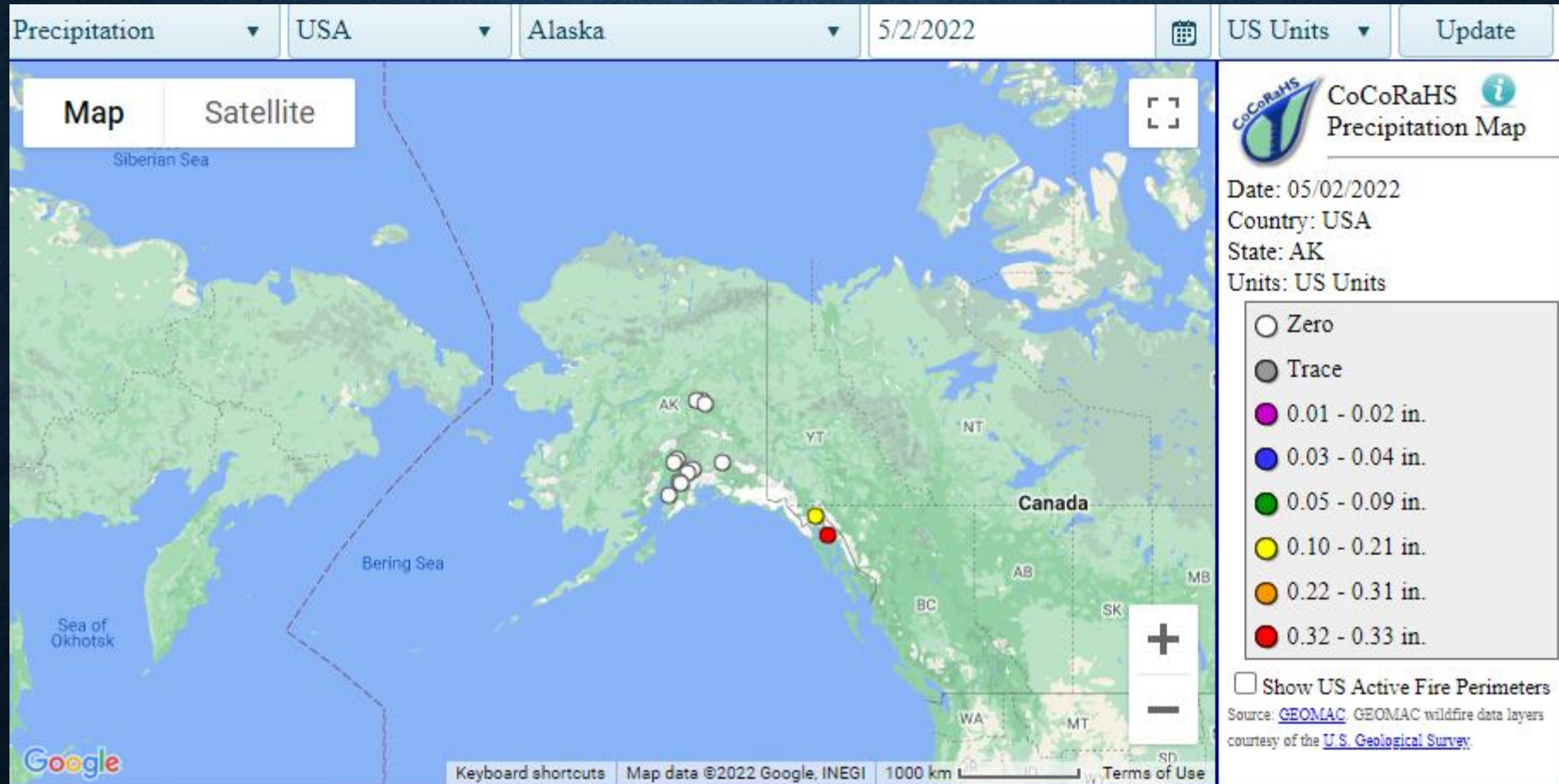
COCORAHs: COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK. STARTED IN CO 1998



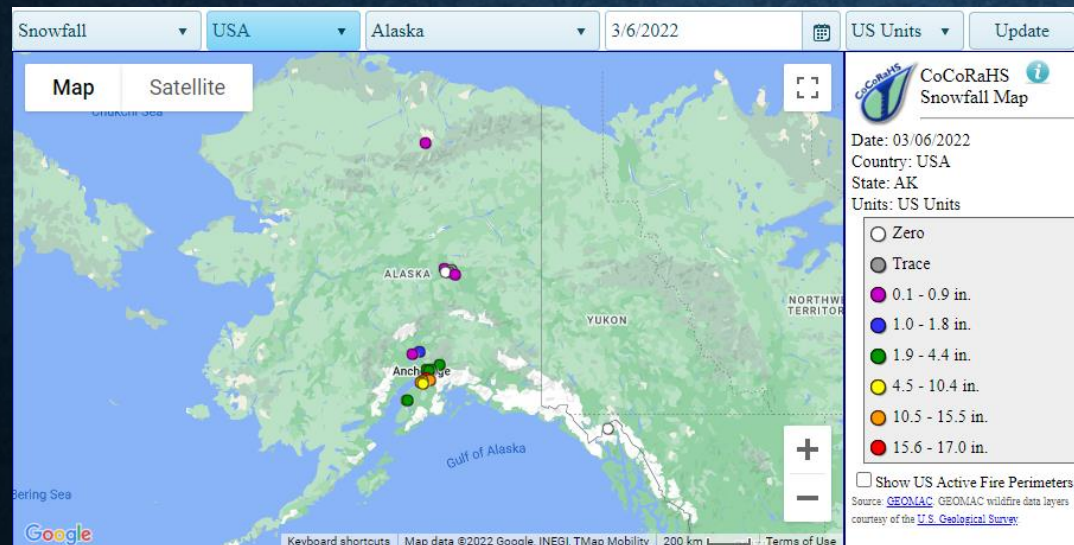
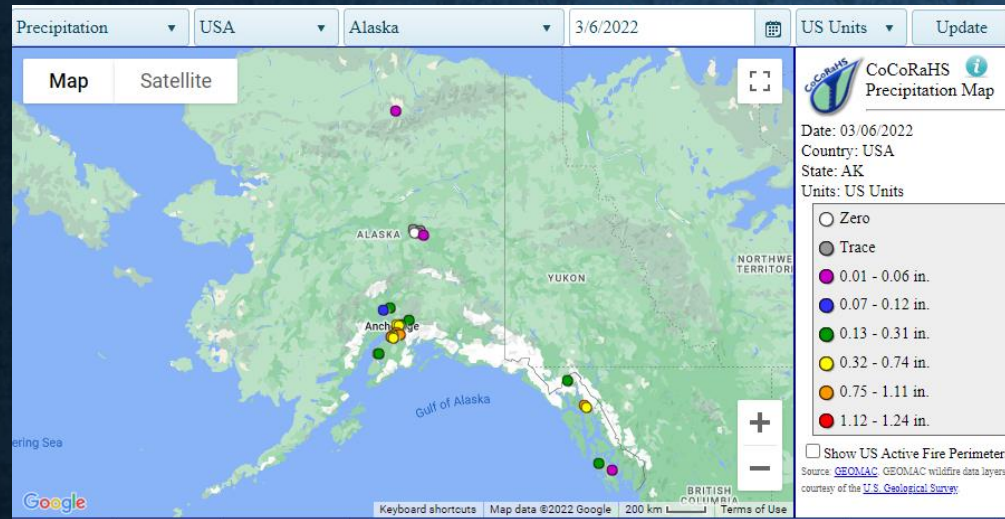
COCORAHS AK

- In AK, CoCoRaHS spun up in 2008-2011, with some organized recruiting efforts. By the early 2010's, limited participation (maybe 10-15 reports per day in late 2010's). Mid-2010's: some gauge distr. with mixed success.
- 2020: Efforts revitalized with involvement of State Climatologist office and NOAA coordinators. 2021: new gauge distr.
- Aaron Jacobs and Kimberly Vaughan: SE/Panhandle Coordinators
- Erin Billings: Central AK Coordinator
- 2021: AK Newsletter startup

COCORAHS AK

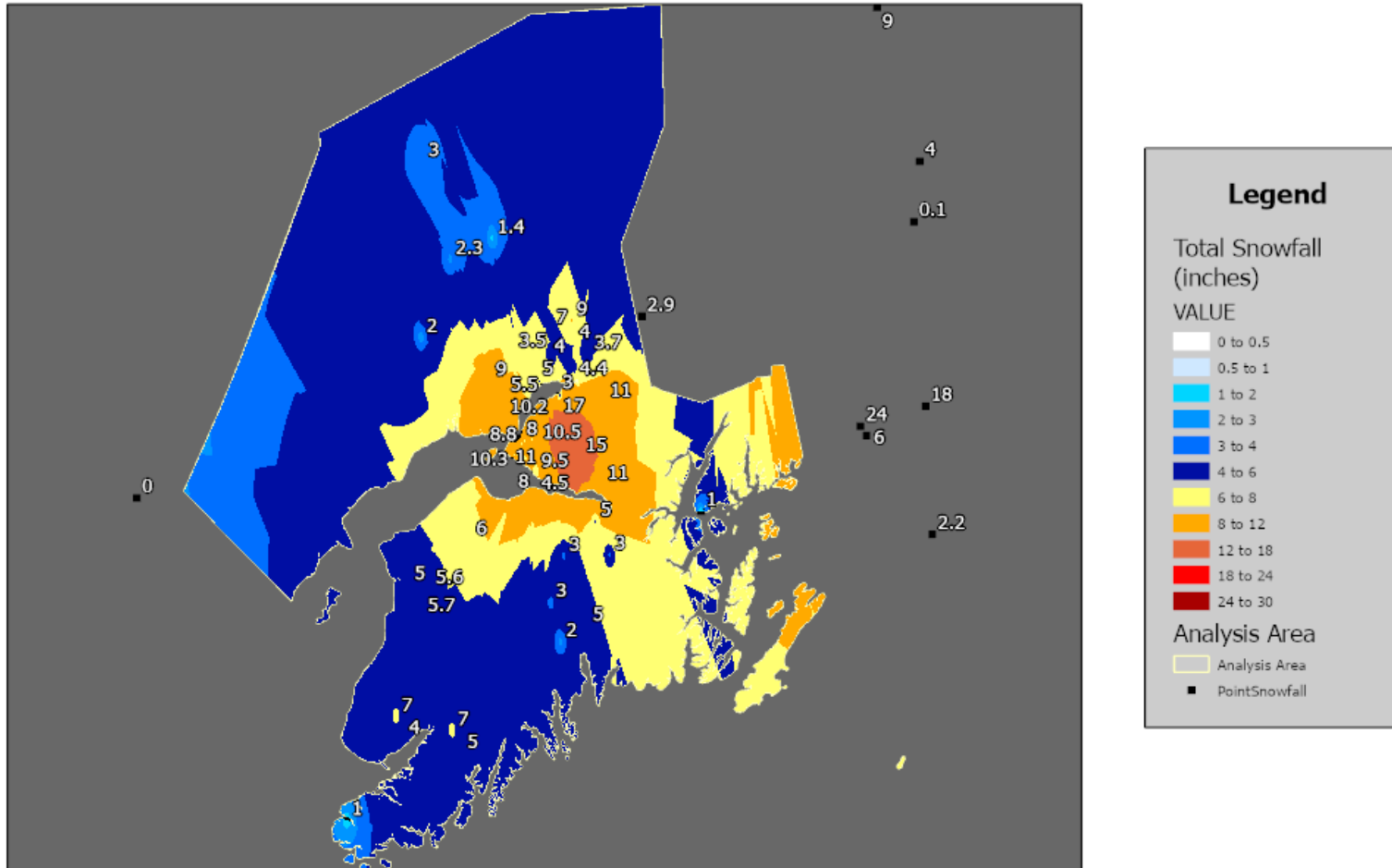


COCORAHS AK



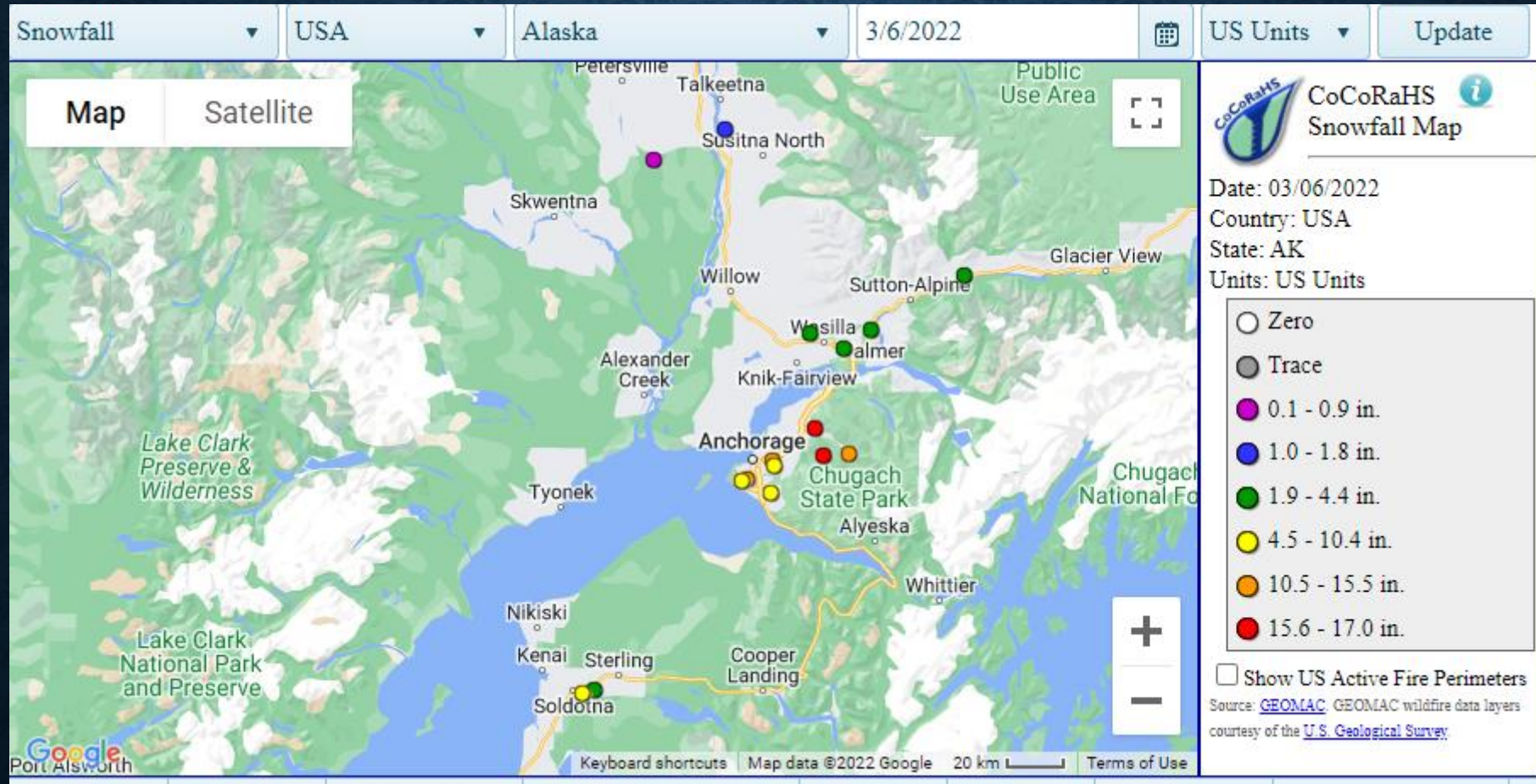
COCORAHS AK

Storm Total Snowfall: March 5, 2022



ZONE	MIN	MAX	RANGE	MEAN	STD	PCT10	PCT25	MEDIAN	PCT75	PCT90
101	4.510944	15.637345	11.126401	11.260441	2.038728	8.559328	9.12373	11.744472	13.119292	13.628812
111	4.078444	12.883471	8.805027	7.296975	1.691268	5.681763	5.881212	6.676399	8.498077	9.916093
125	1.136832	12.228024	11.091191	6.381202	1.538317	4.622218	5.089154	6.430439	7.276905	8.390491
145	1.58212	8.86839	7.28627	4.77442	0.932329	3.875693	4.168451	4.678261	5.066411	5.872657
121	1.10243	10.418544	9.316114	5.85475	1.244836	4.793073	5.190668	5.527436	6.585513	7.815007

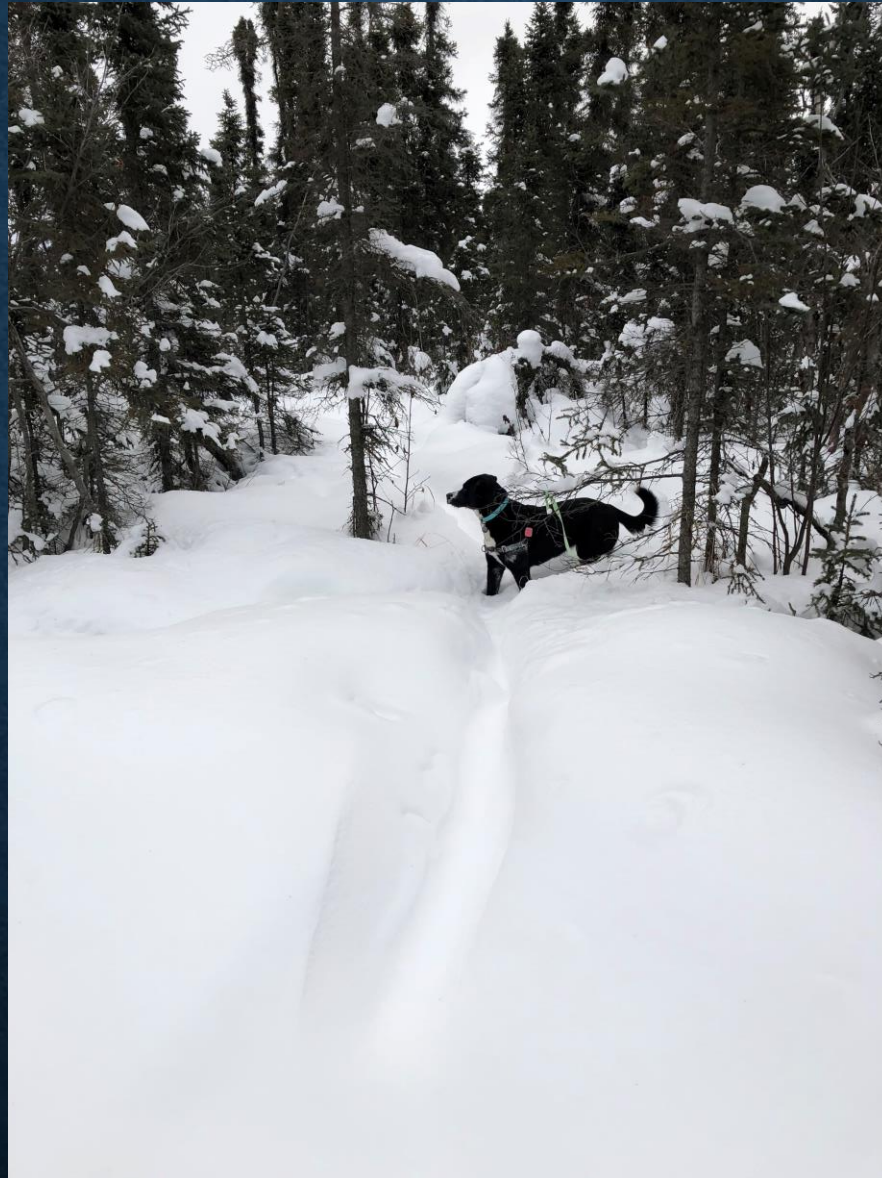
COCORAHS AK



COCORAHNS
AK



COCORAHS AK



WEATHER IN AK: 09/21 AND 09/27



COCORAHS AK



MORE TYPICAL SNOW EVENT....

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NOAK48 PAFC 222037
PNSAFC
AKZ101-111-230845-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE ANCHORAGE AK
1137 AM AKST SUN NOV 22 2020

...SNOW TOTALS FOR ANCHORAGE AND THE MATANUSKA VALLEY THIS MORNING...

A QUICK BUT HARD-HITTING BAND OF SNOW MOVED ACROSS ANCHORAGE AND THE MATANUSKA VALLEY THIS MORNING. HERE IS A SUMMARY OF THE SNOWFALL TOTALS THAT HAVE BEEN REPORTED SO FAR.

HAVE ADDITIONAL SNOW TOTALS TO REPORT? VISIT
[WEATHER.GOV/APRFC/SUBMIT?SITE=AFC](https://weather.gov/aprfc/submit?site=AFC) TO SUBMIT YOUR REPORT.

PLACE.....AMOUNT

SOUTH ANCHORAGE.....	6.0 INCHES.
NORTHEAST ANCHORAGE.....	4.1 INCHES.
HILAND RD. S OF EAGLE RIVER...	3.7 INCHES.
EAGLE RIVER.....	3.1 INCHES.
ANCHORAGE HILLSIDE.....	2.5 INCHES.
PALMER.....	2.0 INCHES.
MIDTOWN ANCHORAGE.....	1.5 INCHES.
2 ESE POTTER HILL.....	1.5 INCHES.
NWS ANCHORAGE.....	1.0 INCHES.

COCORAHS AK

CHALLENGES

- The weather (wind/ice accum/extreme conditions for up to 8 months/yr)...tough on equipment and observers.
- Access to suitable gauge sites, and access to the site itself. We do not typically have suitable sites on residential lots. And it's *DARK* through 10am+ during the cold months.
- Reporting: many folks have limited internet connectivity; utilizing a cell phone does not encourage comprehensive reports
- Interest: impactful weather limited due to sparsity in population
 - E.g. consistent reporting from primarily scientists
- No human population in large areas; many residents are not semi-permanent
- Few meetup opportunities (eg. COVID, expensive travel, etc.)

COCORAHS AK

Efforts to deal with these limitations

AK Newsletter Fall '21

Fall 2021

ALASKA CoCoRaHS NEWSLETTER

Welcome to the Alaska CoCoRaHS Newsletter!

This newsletter will discuss Autumn '21 updates to the Alaska Community Collaborative Rain, Hail, and Snow Network.

Thank you for submitting your daily precipitation reports! This newsletter's purpose is to inform all of the volunteers about weather events in Alaska, and to talk about current events and opportunities.

COCORAHS AK

1 **Observer
Recognition/
New Observers**

2 **Fall 2021
Weather**

3 **Director Visit
and new Haines
observers**

4 **Water Year
Summaries**

5 **Spread the
Word!**



COCORAHS AK

Fall 2021

New Members in the vicinity of Haines

*Thanks to Steve Wishstar and Erik Stevens
of the Haines Science Center and the Haines Avalanche Center: setup of
gauges and observations in the Haines area; station numbers
AK-HB-2, AK-HB-3, AK-HB-4, AK-HB-5*

*Distribution of gauges in the Haines area was possible thanks to the
Canadian CEC and LEO network.*

COCORAHS AK

- Thanks to the Canadian CEC and the LEO network, we have been distributing gauges to interested volunteers.
- To date (9 months) about 10 new gauges have been implemented in the Anchorage area (schools, interested scientists, the public, etc.).
- State of the Art: on an active precipitating day, 25-30 statewide reports. Inactive days: 15-20 reports.
- Some efforts at regular QC of the data have initiated (primarily during the cold season)
- Distribution of brochures
- Visit in-person late summer '21 by Director Henry Reges, who accomplished a lot of advertising with travel and visits through a large portion of the state.

Service High School
Anchorage AK
10/2022



COCORAHS AK



COCORAHS IN AK 2022

- SUMMARY:

1. Challenges are numerous
2. Some headway has been noted with newsletters, gauges, QC efforts.
3. Active precip. days: 25-30 observations
4. Observer recruitment/retention remains a difficulty
5. Efforts on inroads into the Indigenous Tribal communities are increasing.