

TOOLIK FIELD STATION

OCT 1, 2018 - SEPT 30, 2019 REPORT
2020 OVERVIEW



MIKE ABELS, BRETT BIEBUYCK, FAUSTINE BERNADAC, SCOTT FILIPPONE, AMANDA YOUNG, JASON STUCKEY



STAFF CHANGES AND UPDATES



■ New hires:

- Safety Coordinator/EMT: Scott Filippone
- Spatial and Environmental Data Center Manager: Amanda Young
- Expeditor: Tupper Becker
- Maintenance/Science Support Technician: Collin Fossum
- Two temporary hires for communications and programming support

■ Active recruitments:

- Maintenance, Equipment Support and Fabrication Lead
- Logistics Coordinator
- Anticipated 2020: Fiscal Tech
- Anticipated 2021: Programmer

LOGISTICS



2019

- Took delivery of a new NSF truck and a 4wd van!
- Similar public truck schedule to recent past, including a van charter to supplement NSF trucks
- Have a new waiver that allows non-UAF employees/researchers easier access to ride in UAF vehicles



LOGISTICS



2020

- The truck schedule will be similar to past years, but:
 - NSF van will be used when possible to increase seats during busy times
 - We will open seats in UAF vehicles for public reservation when practical
- Replacement of one leased UAF SUV with a second stakebed truck
- Reminder that any outbound HazMat or international shipments that TFS will handle need to be arranged in advance and will be routed through the appropriate UAF departments to ensure compliance. This will take time!
- And it seems like there is something else that I am forgetting...

Arrival Dates & Truck Availability (full dates in **RED**, near full dates in **ORANGE**)

June 2020						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2 🚚 5	3	4 🚚 5	5	6
7	8	9 🚚 5	10	11 🚚 5	12	13
14	15	16 🚚 5	17	18 🚚 5	19	20
21	22	23 🚚 5	24	25 🚚 5	26	27
28	29	30 🚚 5				

LOGISTICS



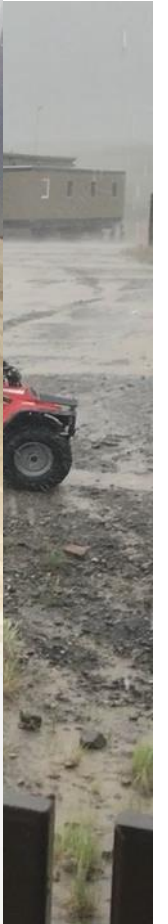
2019 SEASON HIGHLIGHTS – EARLY SPRING

- Earliest lake thaw ever recorded!
- On June 3rd the lake was completely ice free



201

- A few weeks in July Rain and
- Purple
- Cont
- trou
- Boat



2019 SEASON HIGHLIGHTS – BUSY TIMES

- Early and high population peak: 155 people on June 25th
- Housing challenges with dorm completion delays: Every single room was occupied during the peak



2019 CAMP HIGHLIGHTS – HIGHWAY CLEANUP

- Haul Road trash clean up efforts with NATC – members of the community participated



2019 CAMP HIGHLIGHTS – OLD/NEW DORMS



VARIOUS CAMP UPGRADES/CHANGES

- Following some input from the 2018 users forums:
 - Surplus furniture from Fairbanks: More storage in rooms, and big savings!
 - New blinds in weather ports and dorms, new door locks in towers, hooks
- Soda machine (cost saving, significant reduction in waste)
- Update posted information around camp
- Dorms naming convention changed
- No shoe policy in dorms



BUILDING COMMUNITY

- Weekly science seminars
- 3 user forums
- Safety clinic (tire changing)
- Trivia
- Community runs: Equinox 5K, half-marathon
- Social media updates
- Christmas in July games and gift exchange
- Mid-Summer Greetings video for NSF



ion

MYTOOLIK UPDATES



2019

- Two new reports added to PI and Project Managers accounts: Userday Report and Reservation Report
- New tool to make multiple reservations at once
- Opportunity board
- Behind the scenes work to strengthen the system



myToolik User Portal

MYTOOLIK UPDATES— BULK RESERVATIONS



Toolik Reservations: Sydonia Bret-Harte
or check ☒ to make a reservation for another user

make reservation(s) for:
0 TBD (placeholders) [ADD NEW USER](#)

Arrival ☒ SET/CHANGE ARRIVAL

arrival date
not selected
arrival method
not selected

Departure ☒ SET/CHANGE DEPARTURE

departure date
not selected
departure method
not selected

Project

principal investigator/lead
select/reset...

project/group
select/reset...

your position
select...

on-site supervisor (req. if under 21)

Payment

method of payment
select...

payment info 1

payment info 2

additional comments about your reservation

additional emails (separate with commas)

SAVE CLOSE

Toolik Reservations: Sydonia Bret-Harte
or check ☒ to make a reservation for another user

make reservation(s) for:
☐ Aaron, Bill
☐ Abbott, Ben
☐ Abbott, Mark
☐ Abels, Michael
☐ Ackerman, Daniel
☐ Acree, Autumn
☐ Acuna, Javier
☐ Agnan, Yannick
☐ Agnelli, Alessandro Elio
☐ Ague, Monica

Arrival ☒ SET/CHANGE ARRIVAL

arrival date
not selected
arrival method
not selected

Project

principal investigator/lead
select/reset...

project/group
select/reset...

on-site supervisor (req. if under 21)

Payment

method of payment
select...

payment info 1

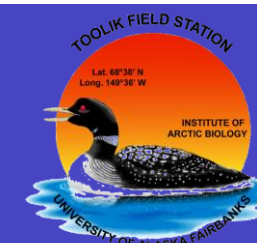
payment info 2

additional comments about your reservation

additional emails (separate with commas)

SAVE CLOSE

MYTOOLIK UPDATES— USERDAY REPORT

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MYTOOLIK UPDATES– USERDAY REPORT



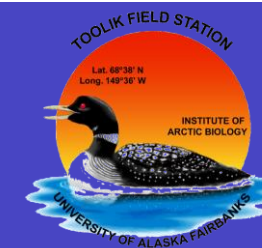
Userday Summary by PI and Billing Type for 2019

PI/Lead	CPS	Other	Total
Bret-Harte, Syndonia	412	3	415
Mack, Michelle	113	6	119
Ruess, Roger	4	0	4
Total	529	9	538

CPS Userday Summary for 2019

A. Total Allotted	532
B. Used By This Project	529
Total Remaining (A – B)	3

MYTOOLIK UPDATES– RESERVATION REPORT

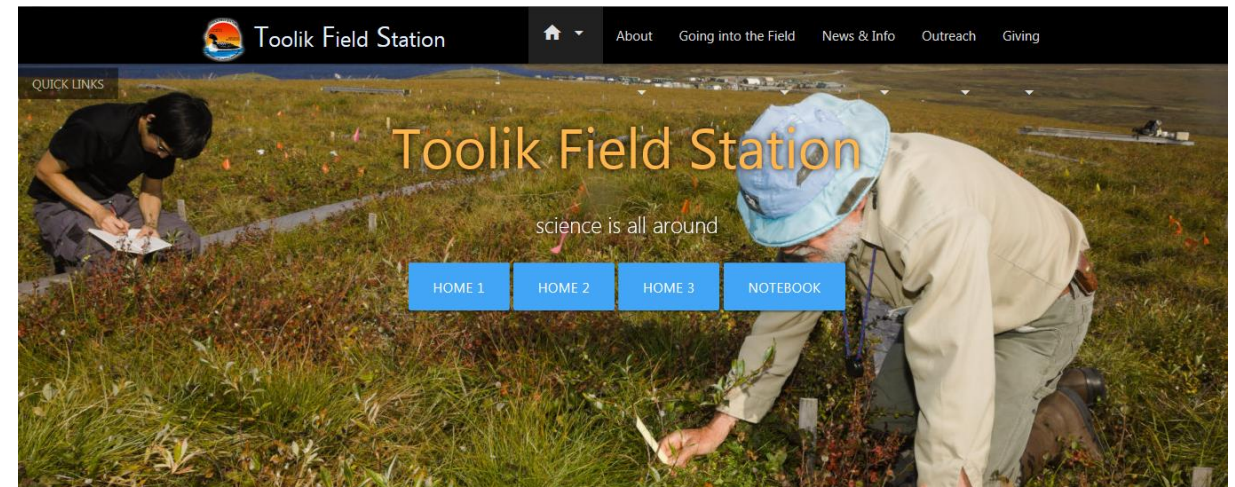
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MYTOOLIK UPDATES



2020

- Unified support request and management tool
- New website. Optimized for mobile devices and public information
- Spatial myToolik
- Preparation for programming staff turnover



Our Mission

The mission of Toolik Field Station is to support research and education that creates a greater understanding of the Arctic and its relationship to the global environment.



The Toolik Field Station (TFS) is operated and managed by the Institute of Arctic Biology at the University of Alaska Fairbanks (UAF) with cooperative agreement support from the Division of Polar Programs, Directorate for Geosciences at the National Science Foundation (NSF).

TFS provides housing, meals, and laboratories in addition to support services for arctic research and education to scientists and students from universities, institutions, and agencies from throughout the US and the world. Research support includes GIS and mapping services, technical and IT assistance, shared commonly used equipment, and collection of standardized environmental data.

A user-day fee contributes to costs of operations, and a Steering Committee and science user input advises TFS management on the direction and extent of science support and station operations.

Through NSF's Arctic Research Support and Logistics contractor, CH2MHill Polar Services (CPS), TFS is also provided with research helicopter support and its infrastructure is developed and maintained. TFS infrastructure and equipment are owned by either UAF or NSF.

MAINTENANCE/FABRICATION HIGHLIGHTS

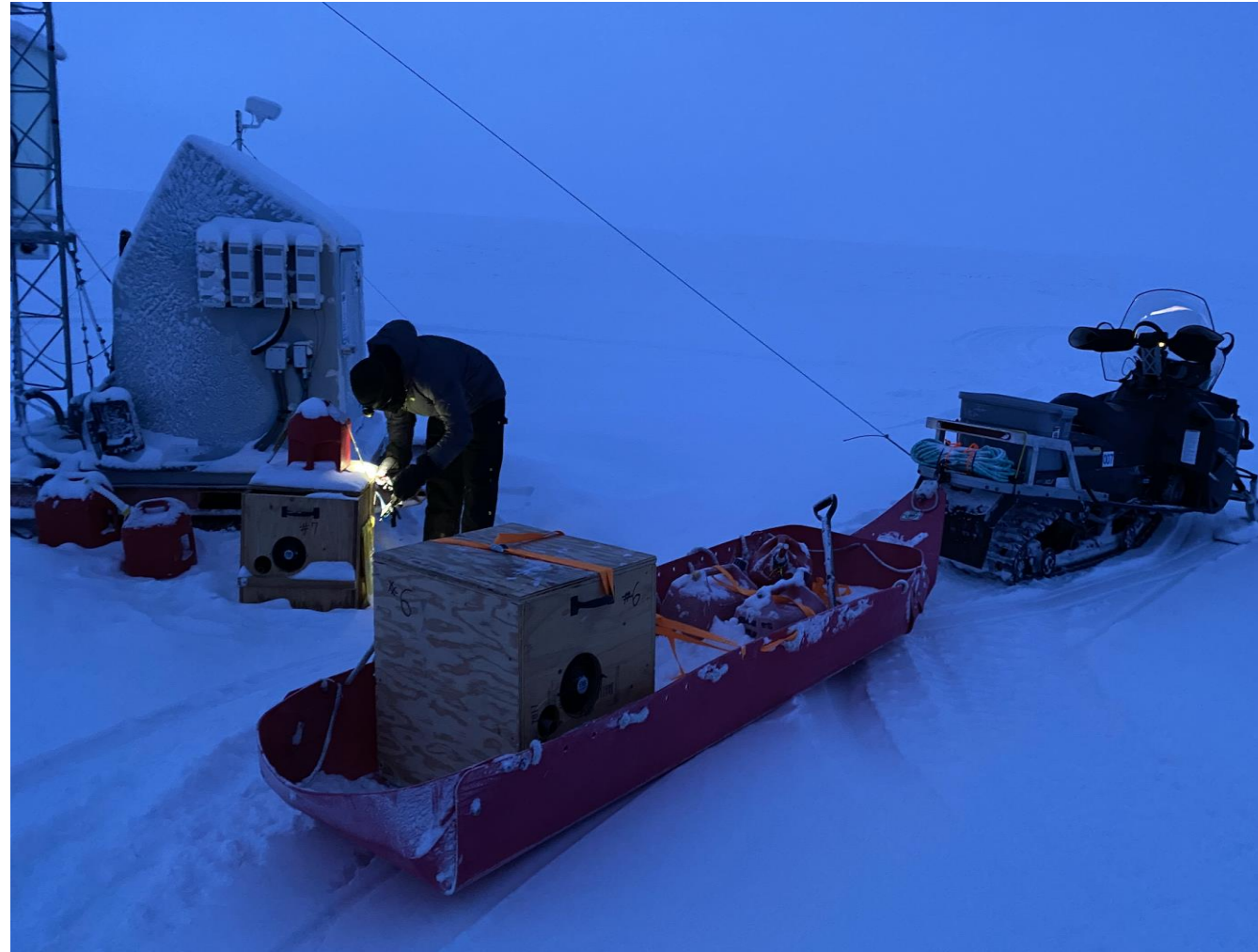
- Lab 6 demob to help CPS floor replacement in Spring
- Upgrades to boat dock ramp
- Flux hut mods to accommodate IMPROVE installation
- Grading of intersection between wet lab, lab 6 and tower 3 with rented dozer
- LTER review poster boards
- Prototype drone case for new SEDC drone



SCIENCE SUPPORT HIGHLIGHTS



- Winter season support for overwintering and autonomous projects remains abundant and continues to grow – both for in camp and assistance out in the field
- Usual suite of summer season science support projects – including fabrication, field support, technical support, and equipment repair



NEW PROJECTS IN 2020



- NSF projects:
 - Arctic Stream Networks as Nutrient Sources for Permafrost Ecosystems – Ben Abbott
 - Post-Doctoral Fellowship: Leaky lands – Jennifer Green
 - Phosphorus/Iron in the Arctic – Elizabeth Keeney, Mike Weintraub
 - Disturbance regimes in the New Arctic – Melissa Chipman
- Alaska DGGGS/USGS Rooftop Ridge - ... – Amanda Willingham
- BLM AIM (Aquatic Assessment, Inventory, and Monitoring) – Erica Lamb
- BBC Frozen Planet II Bumblebee project
- WCS Wolverine survey – Martin Robards
- Others: field classes, INTERACT

Projecting
fewer
user days
than in
2019

THANK YOU!



QUESTIONS?