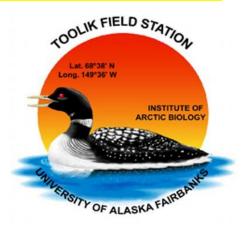
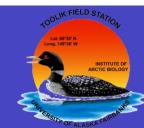
## TOOLIK FIELD STATION

OCT 1, 2017- SEPT 30, 2018 REPORT 2019 OVERVIEW

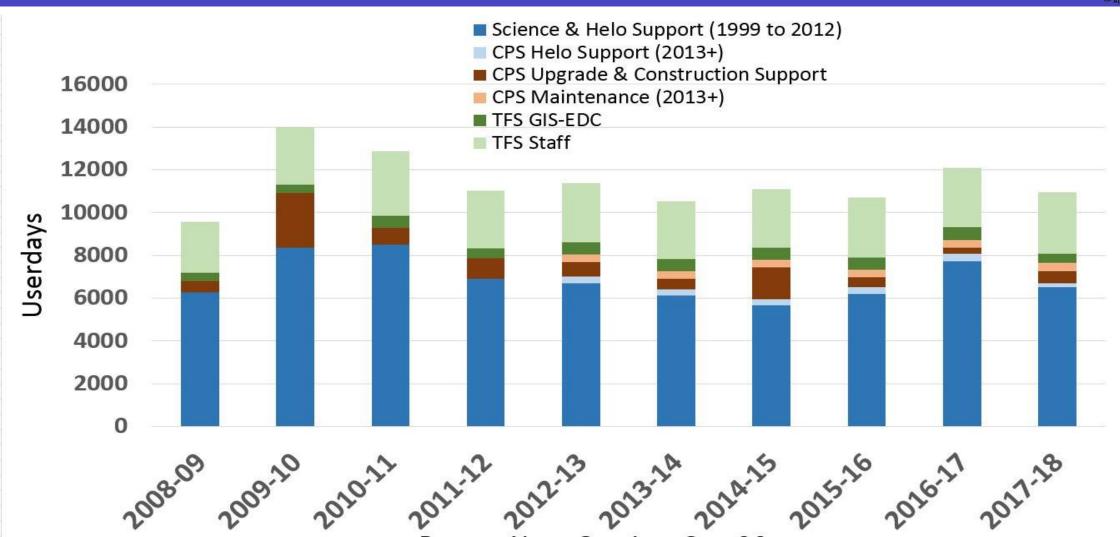








#### **USERDAY TOTALS**





-9%

### TOTAL USERDAY COMPARISON

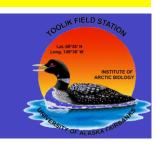
TOTAL

		2016-17	2017-18	CHANGE	PERCENT
	TFS Staff	2763	2883	120	4%
16-17 2017-28	GIS/EDC	616	429	-187	-30%
	CPS Russ/Tim	349	371	22	6%
	CPS & Contractors	268	586	318	119%
	Helo Coor. & Pilot	349	181	-168	-48%
	Science	7739	6517	-1222	-16%
707.				Visitori a consiste processor	

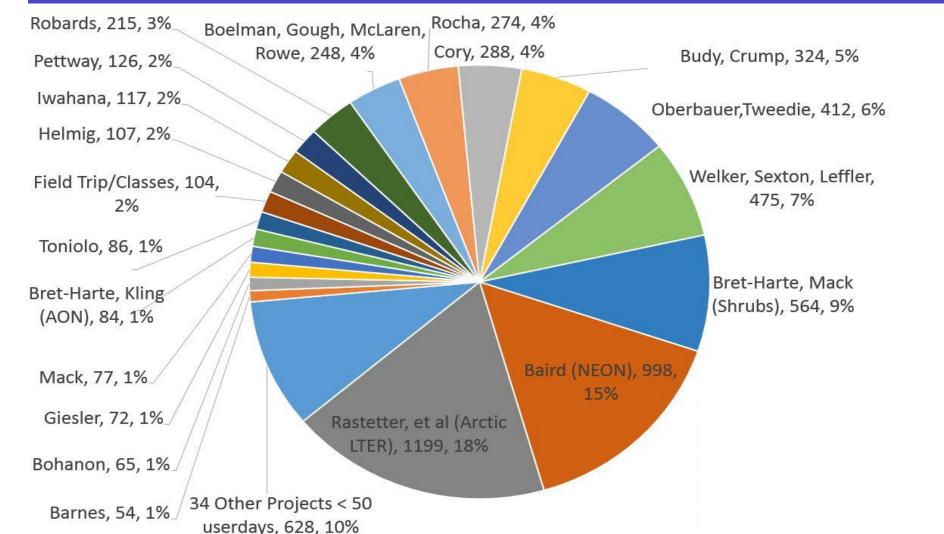
12084

10967

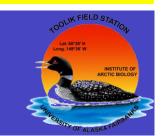
-1117



## TOOLIK FIELD STATION PROJECTS 2017/18

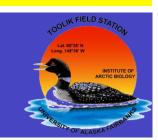


- 60 Science Projects
- 4 Field Trip/Classes
- 6517 ScienceUserdays



## PER PROJECT USERDAY COMPARISON

PROJECT	2016-2017	2017-2018	Difference
LTER	1231	1199	-32
Neon Operations	1003	998	-5
NASA ABoVE projects	237	212	-25
Bret-Harte (AON)	117	84	-33
Bret-Harte/Mack	498	564	+156
Welker/Sexton/Leffer	45	475	+430
Oberbauer/Tweedie (ITEX)	214	412	+198
Neon Construction	527	18	-509
Fetcher/Moody/Tang	492	1	-49I



#### **USERDAY FUNDING BREAKDOWN 2017/18**

Oct 1, 2016 to Sep 30, 2017

NSF 88.3%

PRIVATE 3.7%

NASA 4.4%

NSF 88.4%, 5760

CRREL 0.1%, 6

NIH 0.2%, 12

USGS 0.2%, 14

USFWS 0.2%, 15

BLM 0.3%, 20

DOE 0.5%, 33

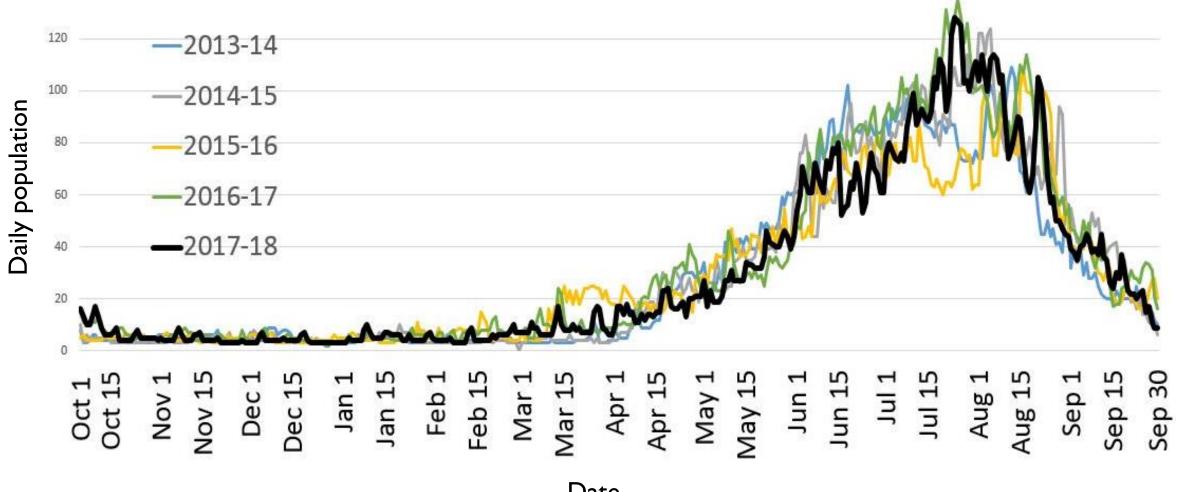
UAF 0.7%, 46

INTERACT 0.7%, 88

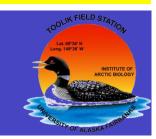
NASA 3.3%, 212

PRIVATE 4.8%, 311

#### RESIDENT POPULATION

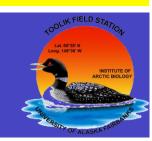


Date



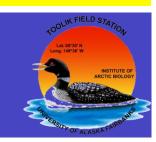
#### STAFF CHANGES AND UPDATES

- New Facility Supervisor started late June 2018
- Chad is Assistant Manager
- Recruitment for Expeditor and Logistics Coordinator
- Recruitment for Safety Coordinator/EMT (target early summer 2019)
- Recruitment Spatial and Environmental Data Center Manager (target Spring 2019)



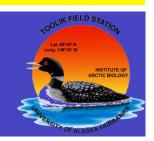
#### MY TOOLIK SYSTEM

- The goals:
  - Create an online portal for managing all things Toolik.
  - Create an easily searchable publicly accessible project metadatabase that includes project information, spatial data, publications, and links to project data
- System went live in 2018 integrating project registrations, housing and truck reservations, and individual accounts including training modules
- Next steps: Continue to integrate all TFS services management into the system
  - Soon: TFS user billing and userday summary and the ability to make multiple of the same reservation in one request
  - Next: Add other service requests and management under the system, shipping and receiving, and lab space assignments
  - Also: Currently working with ESRI to link the TFS GIS plots database with myToolik projects and make the information available and publicly searchable on the TFS website
- We will continue to add to the system in a staged approach as resources allow

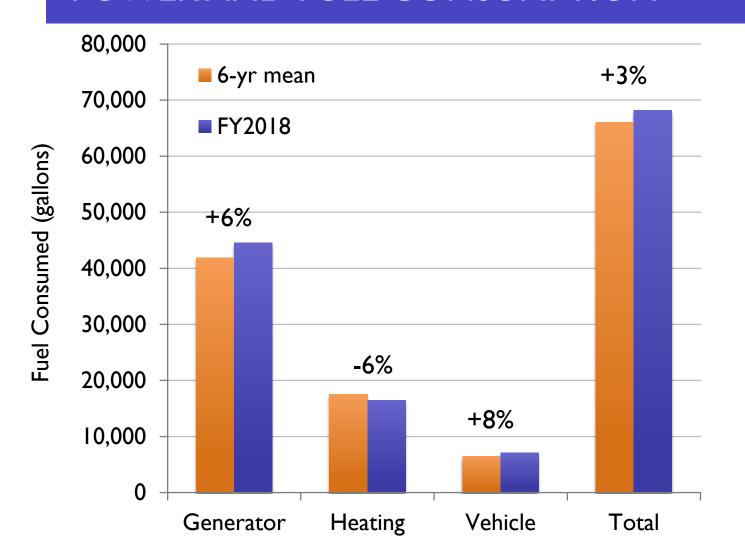


#### **LOGISTICS**

- Planning on taking delivery of a new NSF truck and a 4wd van/coach!
- Similar public truck schedule to recent past, including a van charter to supplement NSF trucks
- Working on allowing non-UAF employees/researchers easier access to ride in UAF vehicles
- 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

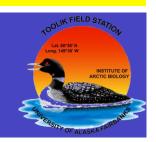


#### POWER AND FUEL CONSUMPTION

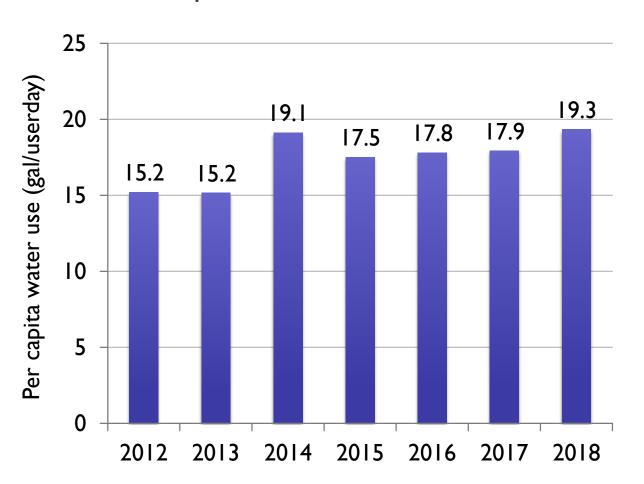


#### Total Power:

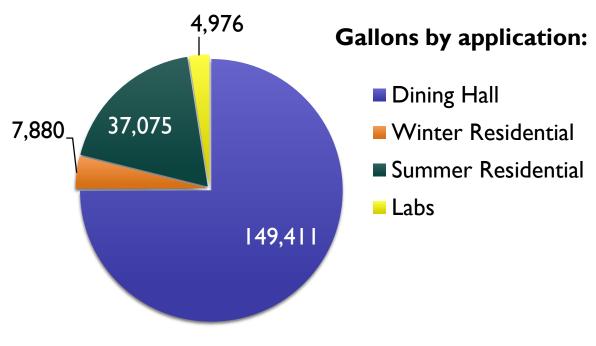
- 529 MWh
- 1 3% from 6-yr mean
- Weatherport heating: 9% of all camp power use (May-Sept)
- <u>Labs</u>: 19% of all camp power use (May-Sept)

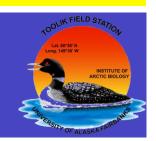


#### WATER CONSUMPTION



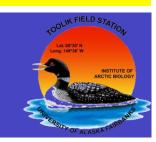
Summers users can influence~20% of camp water use!





#### **INCLUSIVITY**

- TFS/UAF offered Green Dot bystander intervention training to the TFS community in June 2018
- The U.S. Department of Education has issued draft guidance on Title IX. It is unclear on how this will affect TFS
- Regardless, TFS will retain its current code of conduct and maintain a community of respect, expectations for appropriate behavior, and a dialog on inclusivity
- TFS is working with the UAF Diversity and Action Center to explore the possibility of offering two new training opportunities to the TFS community: LGBTQ+ Inclusivity and Suicide Prevention



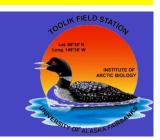
#### MANAGER'S PERSPECTIVE

- Smooth transition at the beginning of the busy season
- Working on a variety of tools and organizational systems to improve operations, planning, and team work, within Toolik and with CPS
- Excited to have the opportunity to enhance collaboration in science support and lab/space management with new SEDC Manager
- Camp improvements:
  - Dorm 7/8 and completion of fiber optic ring (2018)
  - 2019 approved upgrades: New 4x4 van and new dorms, single rooms
  - Plans for upgraded EMT facility, and a new washeteria
  - Being discussed: Possible opportunity to partially convert from diesel to natural gas

# Lin, Sitted STATION Lin, Sitted N Long, 16736 W RESTITUTE OF ARCHE BIOLOGY

#### SOLID WASTE MANAGEMENT

- Objective: Be more sustainable by increasing recycling and decreasing trash burning
- Why?
  - Be good stewards to the environment
  - Atmospheric projects have requested the decrease or elimination of incinerator use
- How?
  - Transport more trash and recyclables to Fairbanks
  - Industrial composter for all food waste
  - Decrease paper products
  - Use more biodegradable products
  - Decrease canned products

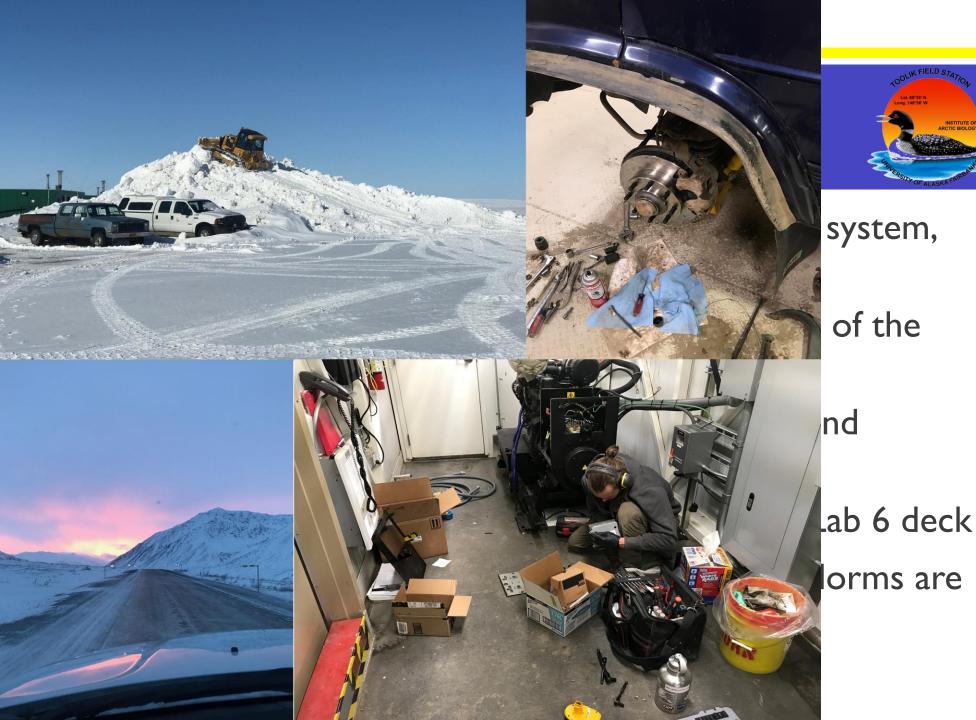


### NEW PROJECTS IN 2019

- Alaska DGGS/USGS STATEMAP mapping project Amanda Willingham
- USNA/CRREL material fluxes on small rivers Shawn Gallaher
- NHNZTV filming project documenting Arctic ground squirrels Loren Buck
- NSF NNA:
  - BIO EF: Peat expansion in Arctic Tundra Zicheng Yu
  - BIO DEB: Tundra iron cycling David Emerson/Breck Bowden
- Field courses:
  - Oregon community college students on an Arctic Soils Tour: 7 people mid-September (funding pending)
  - Caltech Division of Geological and Planetary Sciences: 2 day trip, 25 people in mid-August
  - Olivet Nazarene University on a field observation tour in Arctic/SubArctic environments: 5 days, 17 people, mid-June

## MAINTEN.

- Major repair5401 front
- NEON ger generator
- Well Hous permitting
- Upgrades
- Network v in place
- Grading of

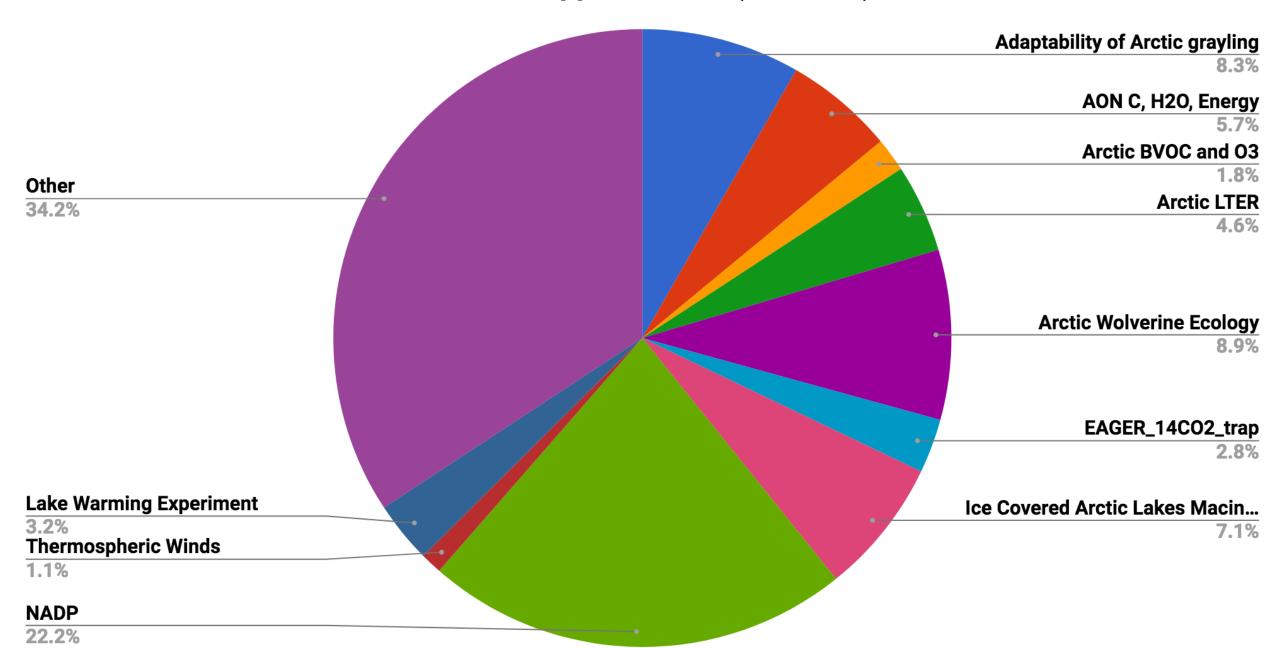




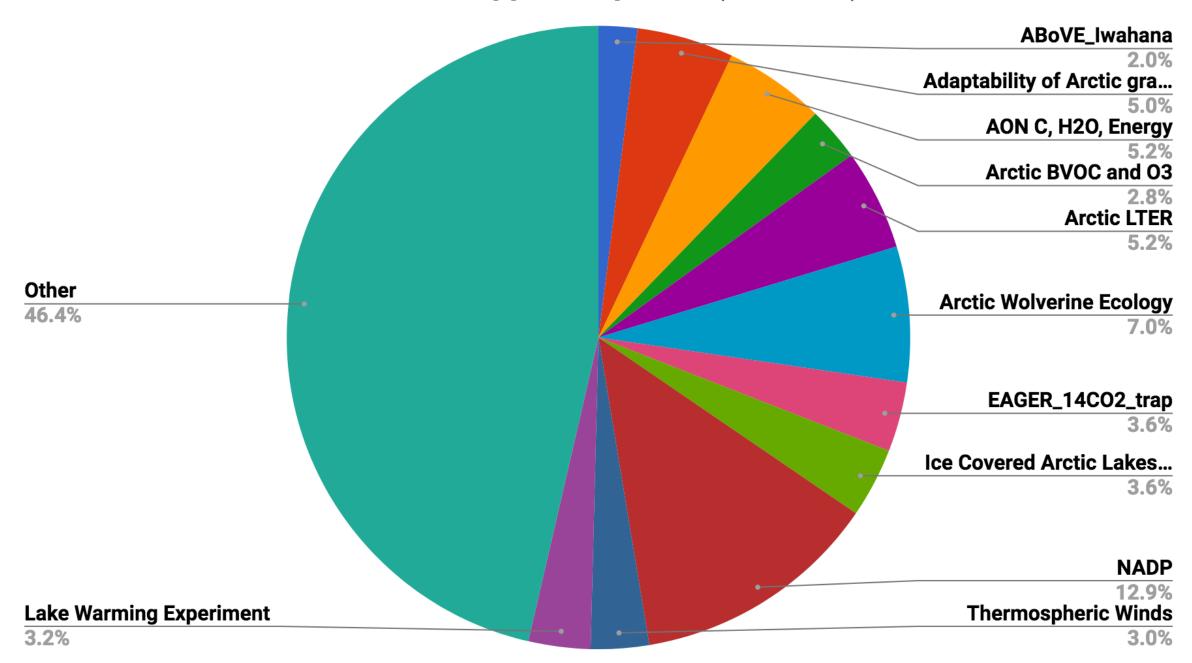
#### SCIENCE SUPPORT HIGHLIGHTS

- Winter season support for overwintering and autonomous projects remains abundant and continues to grow – both for in camp and assistance out in the field
  - Support for Welker, MacIntyre, Conde, Hampton, Deegan, AON, Stanford, Georgia Tech, NEON, and more.
  - 160 different requests over 26 different funded projects (an increase over the 138/24 last year)
- Usual suite of summer season science support projects including fabrication, field support, technical support, and equipment repair
  - 338 requests over 48 different funded projects (also an increase over the 307/5 l last year)

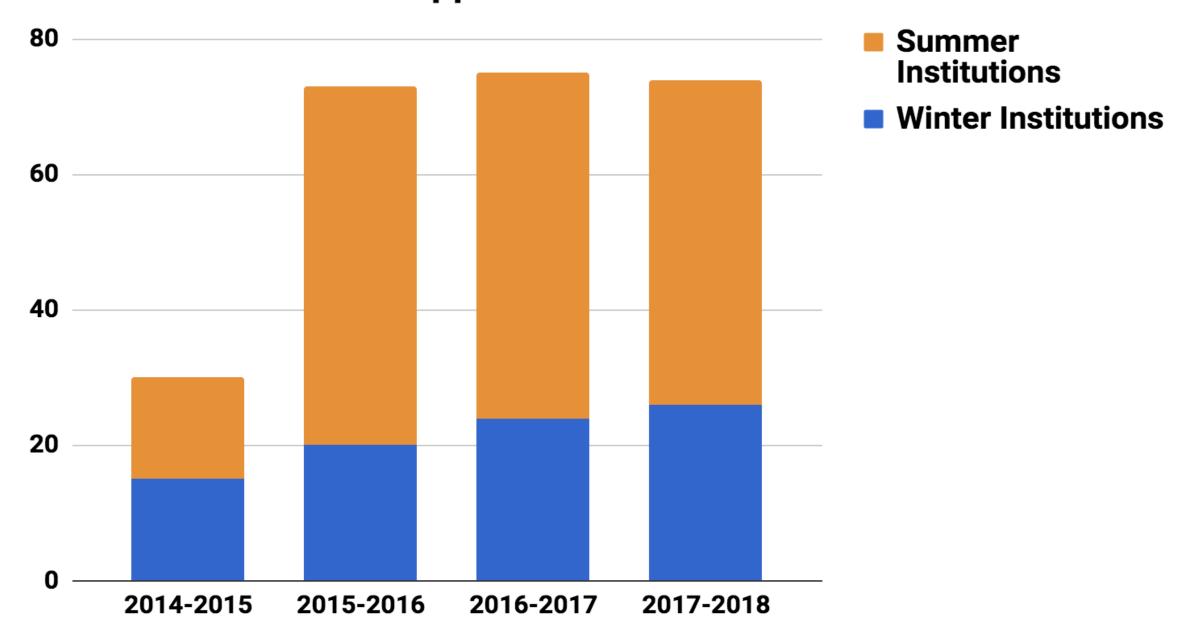
#### Science Support Hours (480 total)



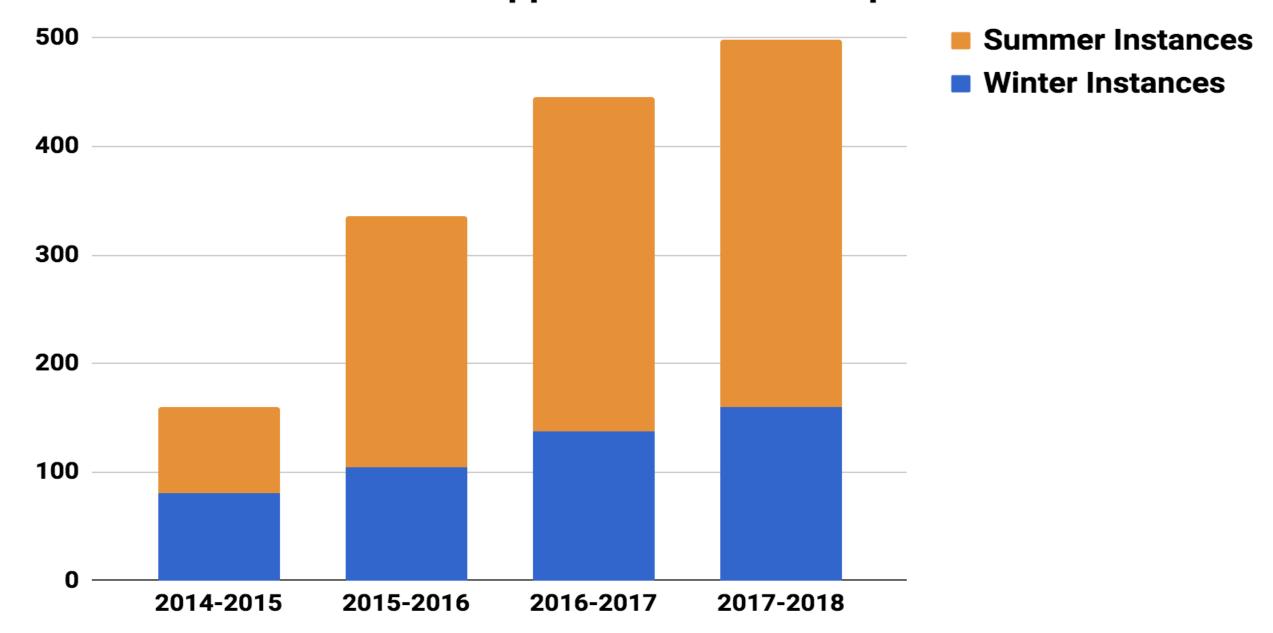
#### Science Support requests (498 total)



## **Science Support - number of Institutions**



## **Science Support - number of requests**





- AON W
- Deegan
- MacInty
- Sample Eager, H
- ABoVE
- WCS W
- LTER fe
- Add IMI







#### THANK YOU!

