



Thank You EDC and Maintenance Staff!

Science recap

- Staffing reduced down to 4 technicians in 2020
 - 2 staff dedicated to aquatic work and 2 dedicated to terrestrial sampling
- **Terrestrial** mostly completed plant/mosquito phenology measurements, herbaceous biomass, LAI photos, and beetle collections
 - Canceled all mammal trapping, soil core collections, most of our plant diversity surveys
- **Aquatics** mostly completed suite of biological and chemistry sampling at both Toolik lake and Ox creek, sensor sets **deployed**
 - Canceled stream morphology and buoy launch on Toolik Lake
- **Tower:** Annual sensor refresh completed, routine preventative maintenance bouts handled by EDC staff
 - Nothing canceled (Thank you EDC!)

Similar expectations for 2021

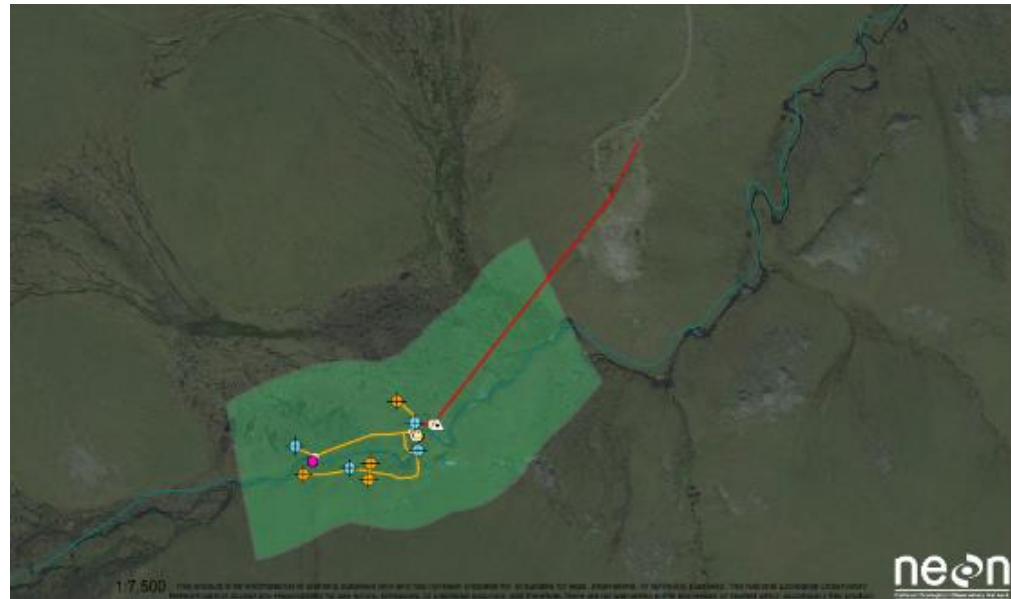
Science recap / EDC support

- **NEON has relied heavily on the EDC for continued sampling and tower maintenance at and around Toolik. Several key accomplishments would not have been possible without their action in the field while camp restrictions were in place.**
 - Oks Creek data collection system troubleshooting in May
 - Aquatroll log data downloads and troubleshooting in the field in June, December, and January
 - Toolik Lake and Oks Creek Water Chemistry sample collection and shipment coordination
 - Instrumentation infrastructure maintenance throughout the winter
 - On the tower, EDC staff became trained for tower climbing and rescue, electrical safety, and routine preventative maintenance training for our instrumentation
- Our reliance on the EDC during the pandemic has substantially strengthened our relationship. We greatly appreciate all of the help from Amanda and her team because we were able to collect more data and be more prepared for the sampling season.

Infrastructure ~~2020~~ Oksrukuyik upgrades

2021

- Current solar power system is insufficient to continuously operate the site (March - Oct)
 - Additional hut in parking area w/ 1500w fuel cell + four 100lb propane tanks
 - Addition of satellite communications
 - Additional solar array
 - Tentative install plans for April



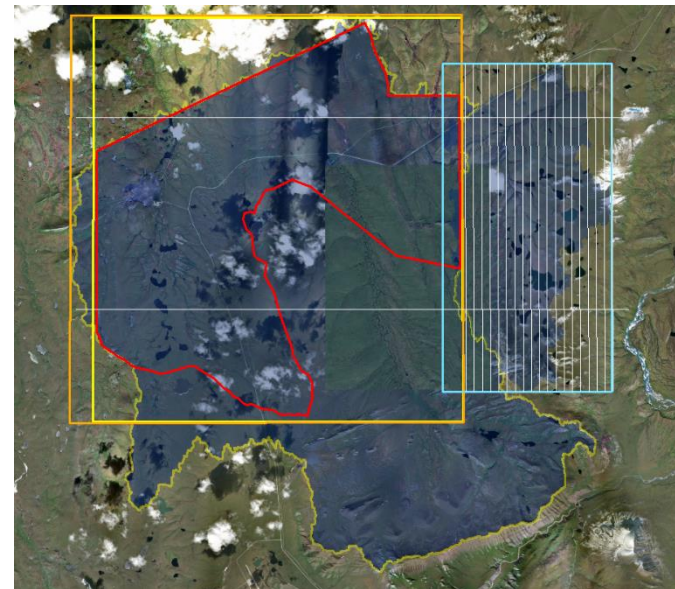
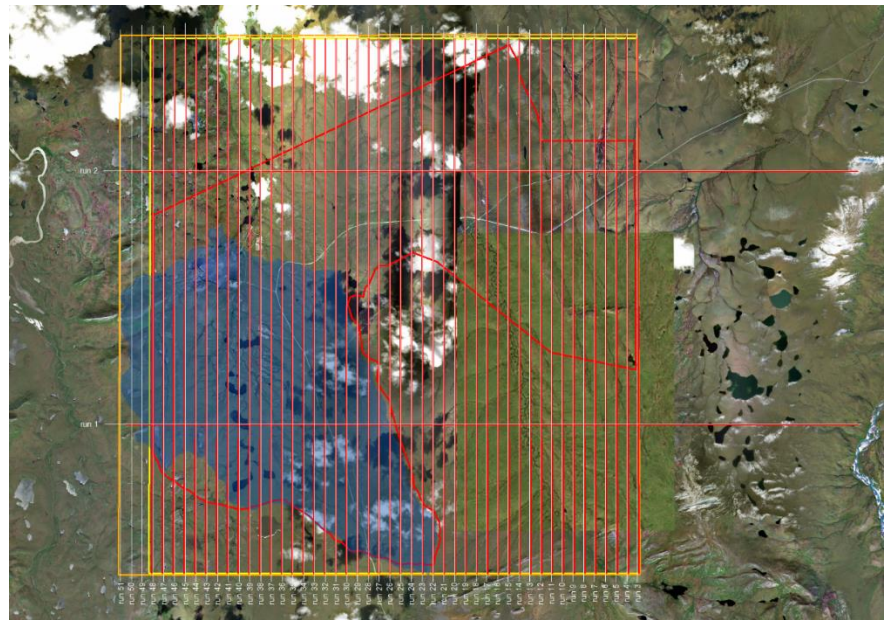
Infrastructure - tower satellite

- Upgrade planned for Feb. 2nd to install smaller diameter dish
- Goal is to reduce drifting and associated communication outages



Remote Sensing

- 2019 Flight dates
 - 6/22 – 7/14
- ~~2020 Flight dates~~
 - ~~6/26 – 7/27~~
 - ~~Flight box expanded to the west to cover Toolik lake watershed~~
- No flights proposed in Domain 18 for 2021





| neon
Operated by Battelle