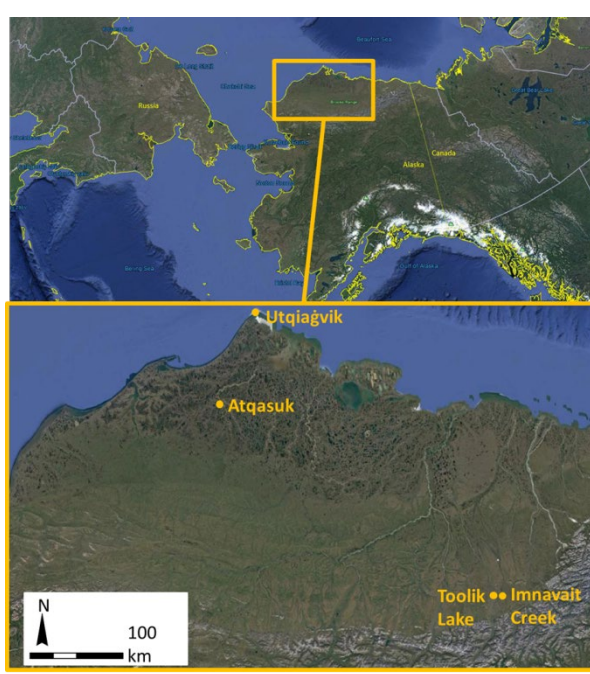


FIU

Core measurements by FIU





Four MISP transects
Barrow
Atqasuk
Imnavait Creek
Toolik Lake

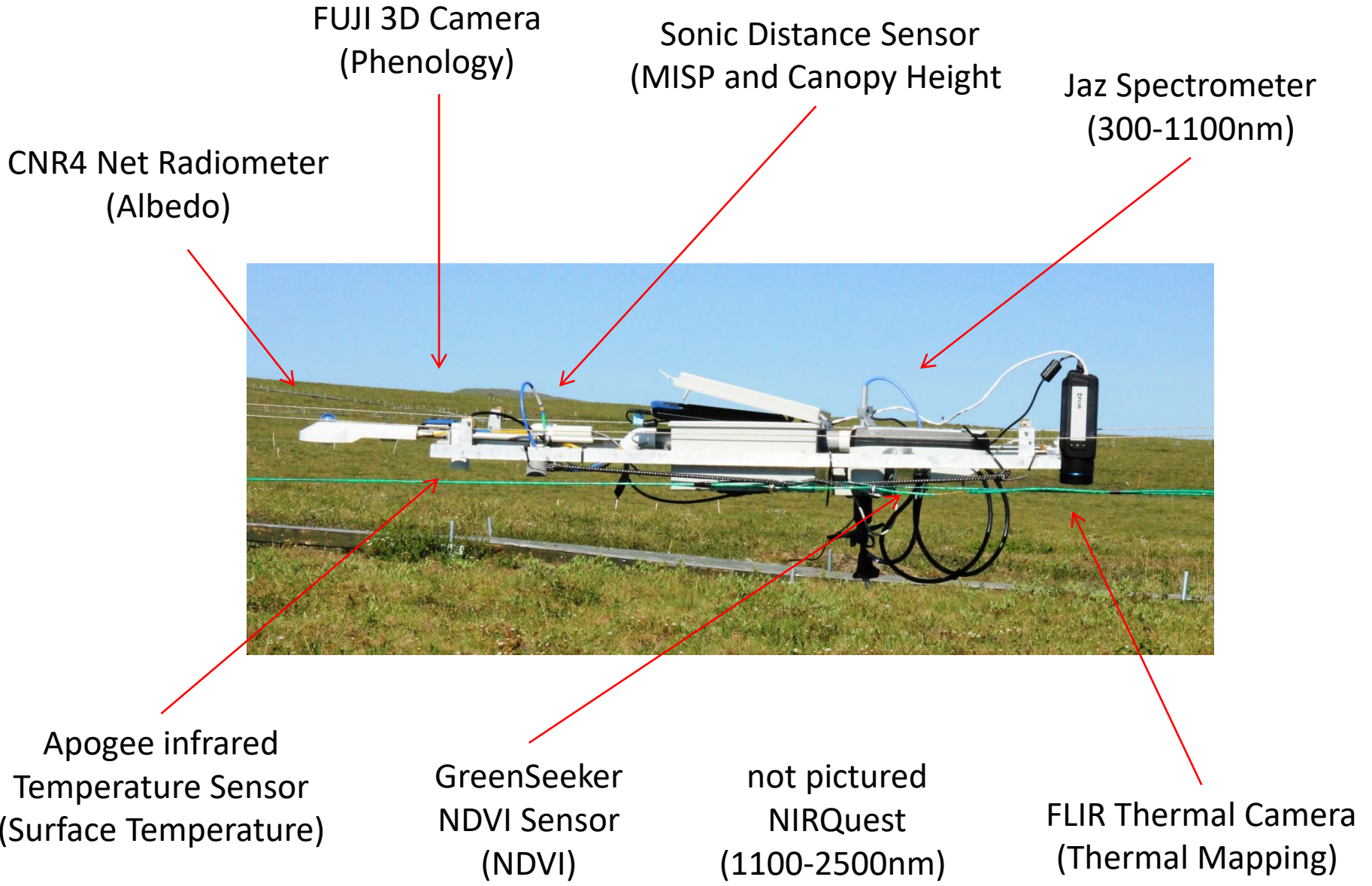
Measurements since
2011

Near-daily monitoring
May/June through
August/September

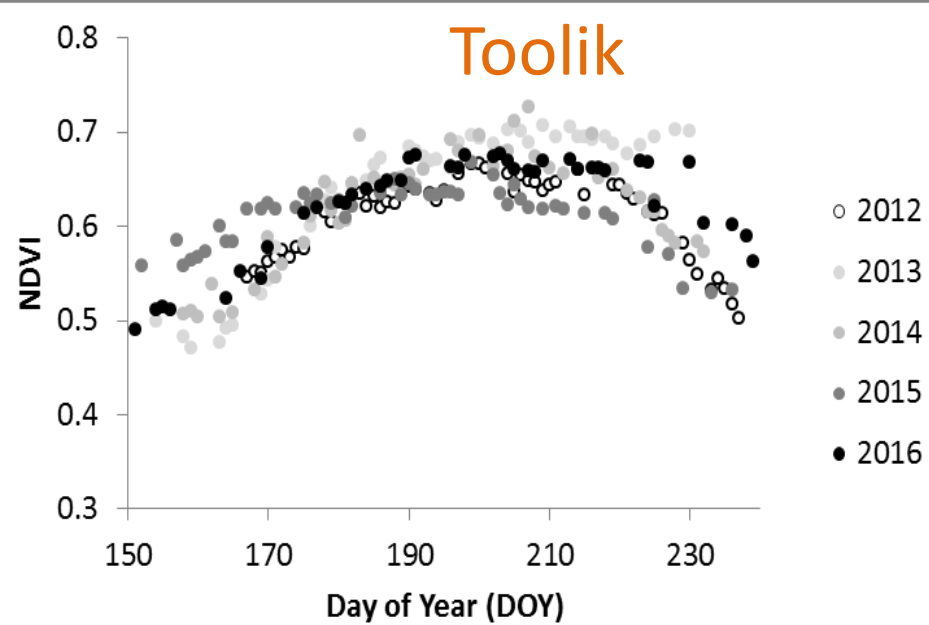
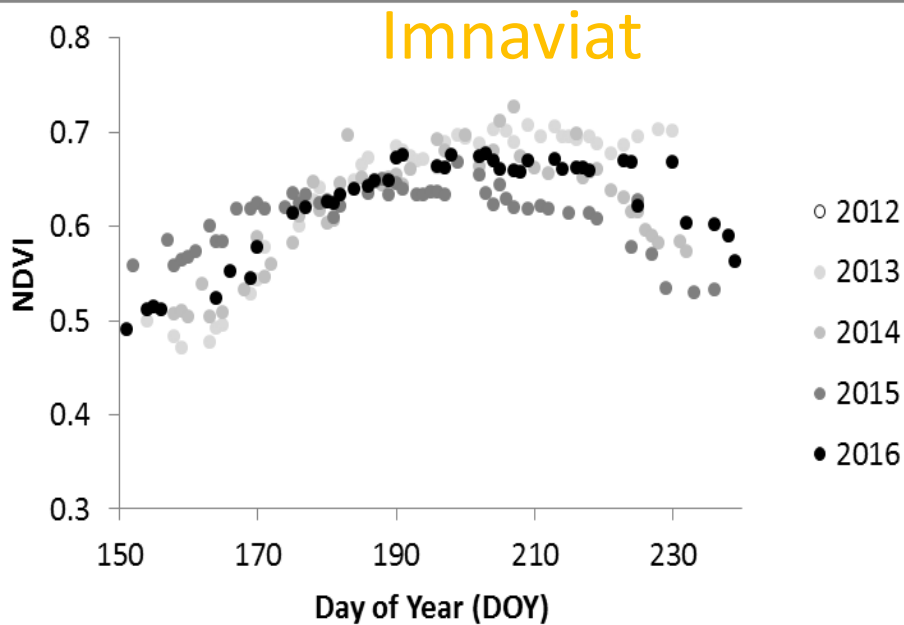
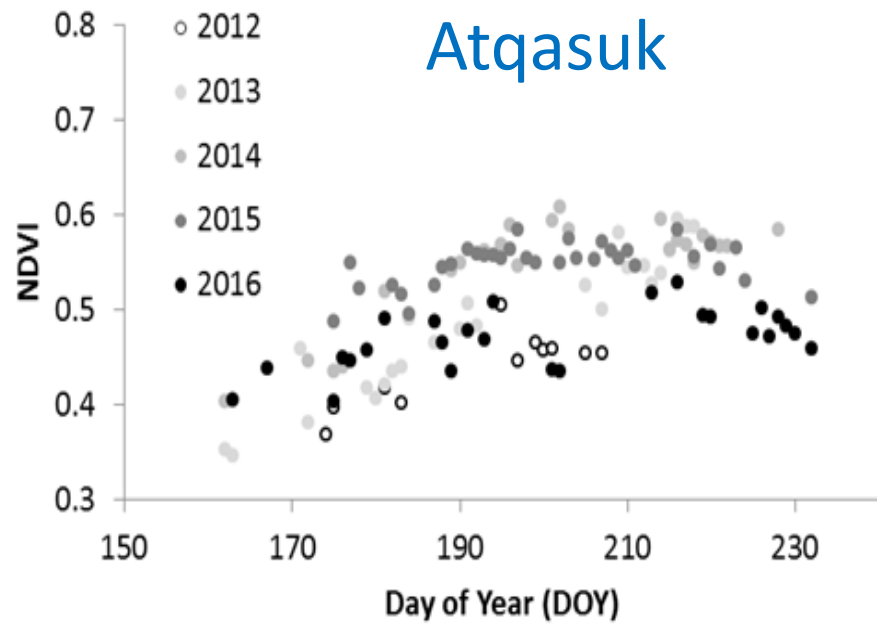
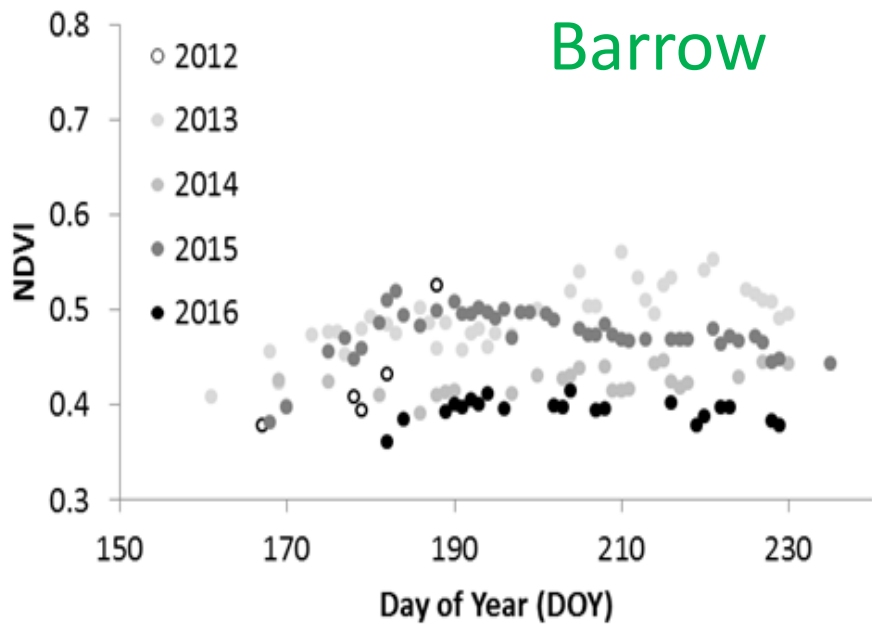
~50 m transects that
span the dominant
vegetation community
types

Periodic vegetation
assessment sampling





Season NDVI Change (whole transect)



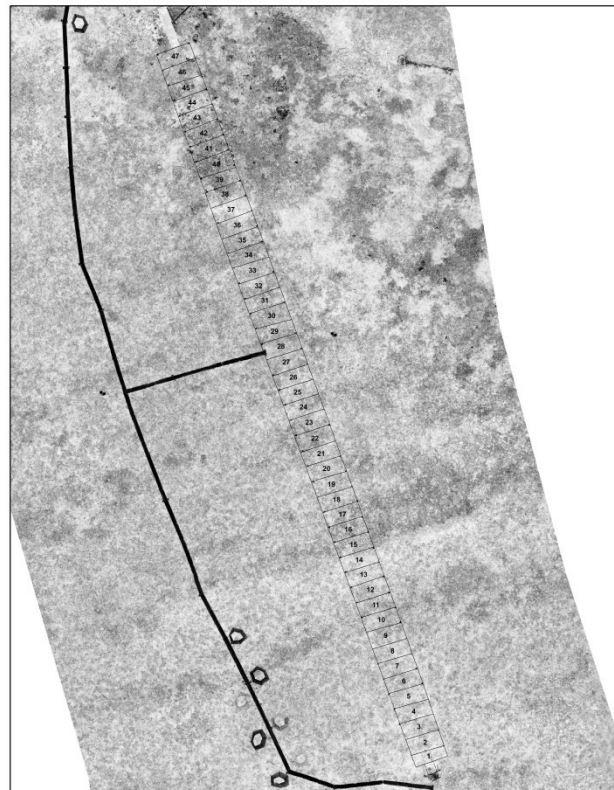
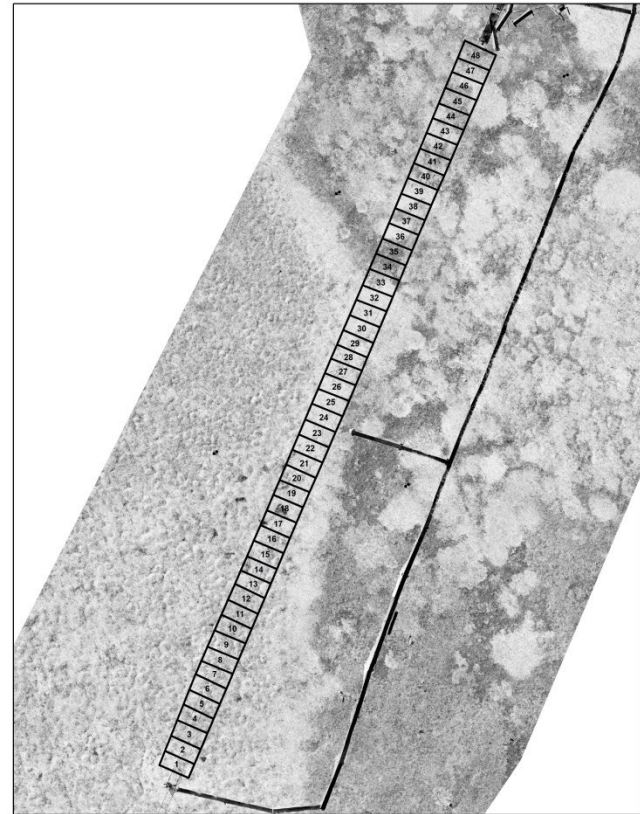


Toolik Field Station GIS Drone Surveys

MISP transect and
approximately ARCSS
subset grid

1-2 times/month

NDVI mapping



Season Project Continued Monitoring

Moist Acidic (10 plots)

Twice weekly

Phenology

Thaw Depth

Spectral (Unispec 300-1100nm)

NDVI (GreenSeeker)

Weekly

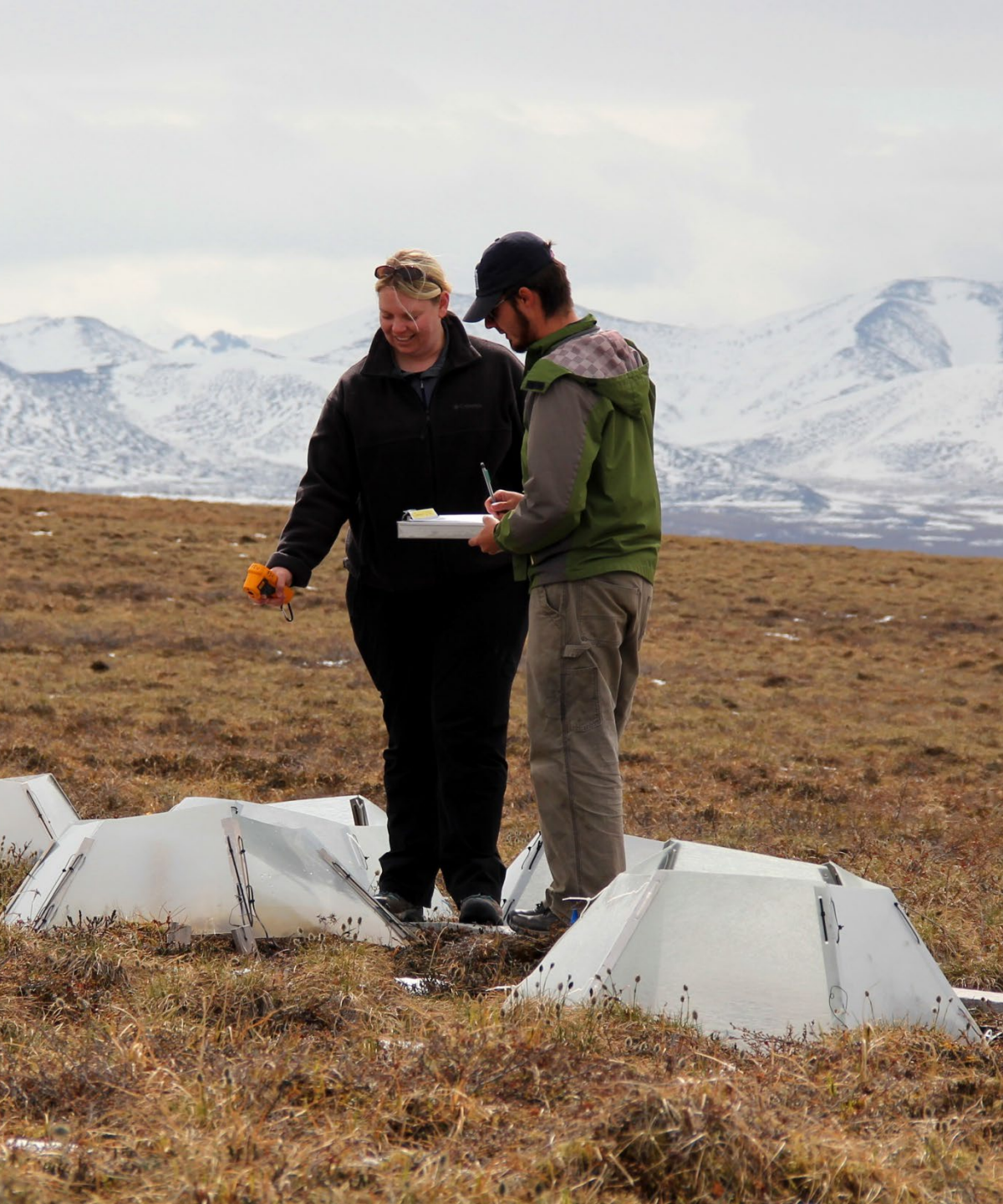
Leaf Fluorescence (FvFm)

Seasonal

Plot Photos

Point Framing





Imnavait ITEX Plots

Dry Heath and Wet Acidic
(8 control, 8 warmed)

Near Daily
NDVI (GreenSeeker)

Weekly
Phenology
Unispec (300-1100nm)

Seasonal
Plot Photos

Point Framing

Toolik Shade Plots

Dry Heath and Moist Acidic
6 control
6 40% shade cloth
6 80% shade cloth

Twice weekly
Unispec (300-1100nm)
Phenology
Flower Counts

Seasonal
Plot photos





Berry Survey

4 Locations

Toolik Lake

Imnavait Creek

Slope Mountain

Galbraith Lake

12 0.25m² plots

Moist Acidic and Dry
Heath

V. vitis-idaea

V. uliginosum

E. nigrins

A. alpina



Flower Reflectance Survey

Measuring reflectance of flower parts

70+ species

