Campaign name: Team Shrub QHI 2019

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Campaing start and end dates: 05 July and 21 August 2019

Campaign location: Qikiqtaruk-Herschel Island, Yukon Territory, Canada

# Short abstract

To examine the relationships between compositional and biophysical (biomass) variables with a focus on how these relationships vary by phenological phase and spatial scale. Ground-based spectral measurements were collected in long-term monitoring plots where detailed species data is collected. Additional drone and aerial imagery was acquired over long-term monitoring plots at multiple times in the growing season.

# Keywords

Field spectrometer, airborne hyperspectral, AISA Eagle, V-NIR, vegetation, long-term monitoring, biodiversity, species composition

# Scientific question

Can we predict plant biodiversity with spectral diversity?

# Location:

Hemisphere: northern

Location coordinates: 69.5977, -138.9477

Campaign start and end dates: 17.07.2018 – 28.08.2018

Type of measurements (mark with an x):

|  |  |  |  |
| --- | --- | --- | --- |
| Ground-based in-situ | Ground-based remote sensing | Airborne in-situ | Airborne remote sensing |
| x | x |  | x |

# Measured parameters:

Aerosols, details:

Gases, details:

Clouds, details:

Others, what: Vegetation species composition using point frame method, Vegetation spectral reflectance using a field spectrometer, drone imagery

# Part of a bigger project / activity / infrastructure? If yes, which one?

# Participating institutes

University of Edinburgh, GFZ, AWI Potsdam

# Additional participation possible? Wishes

# Optional files (e.g. map)