

Cryosphere Research at MSU

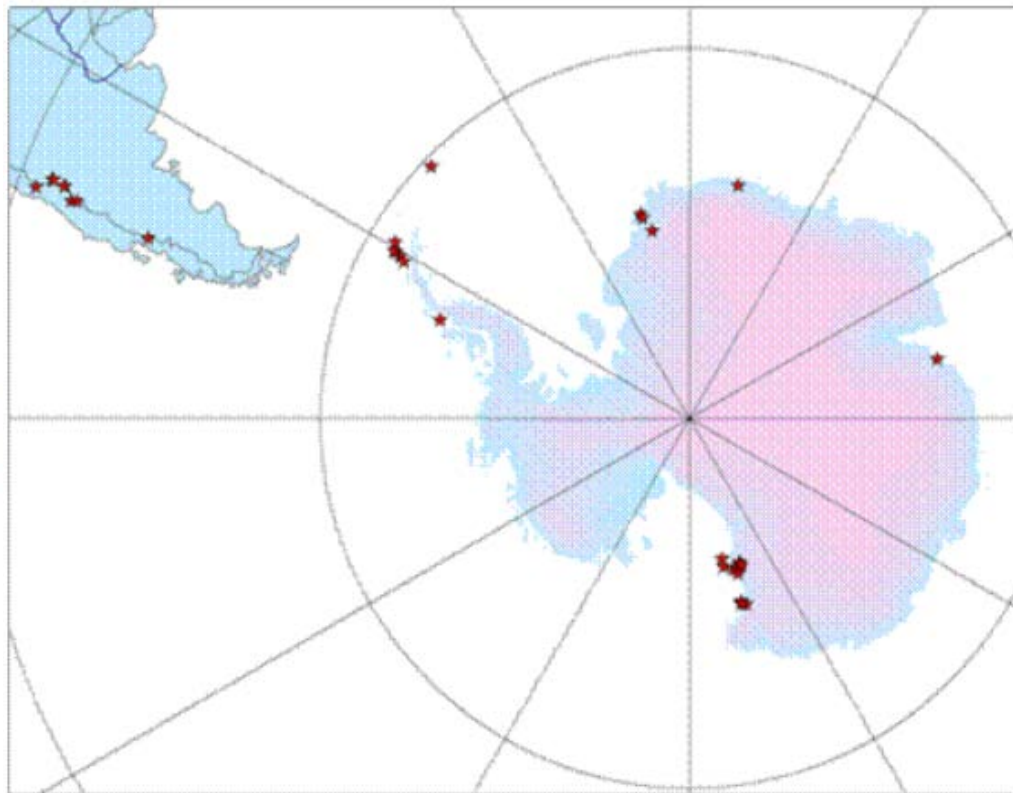
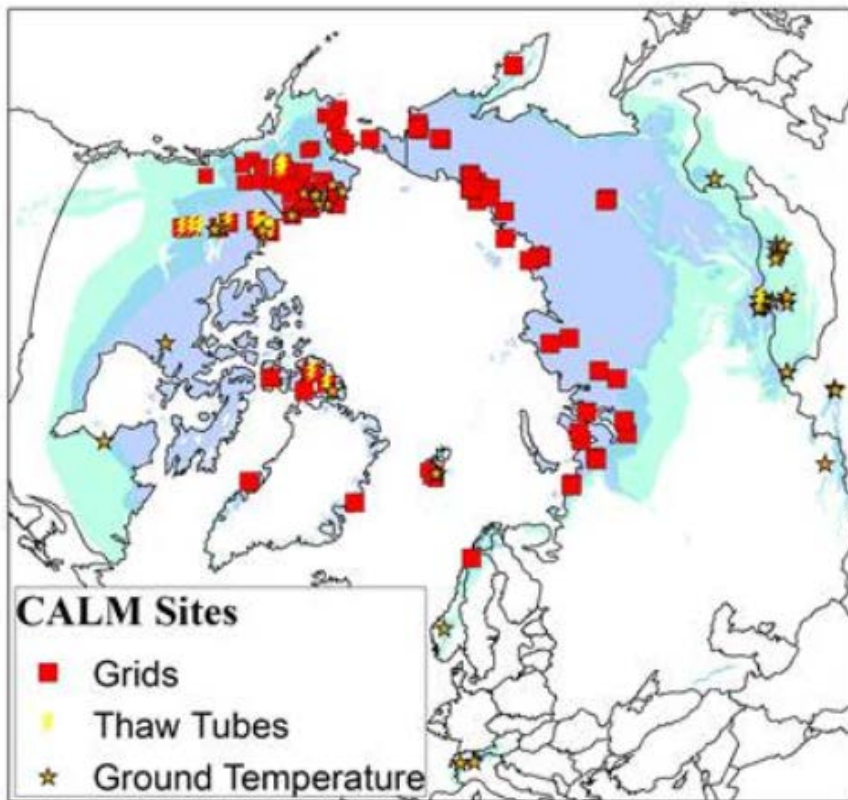
Grant Gunn – Geography, Environment and Spatial Sciences



CALM

Circumpolar Active Layer Monitoring

Consecutively funded by the National Science Foundation for 25 years



THE GEORGE
WASHINGTON
UNIVERSITY
WASHINGTON, DC



GTN-P
Global Terrestrial
Network for
Permafrost

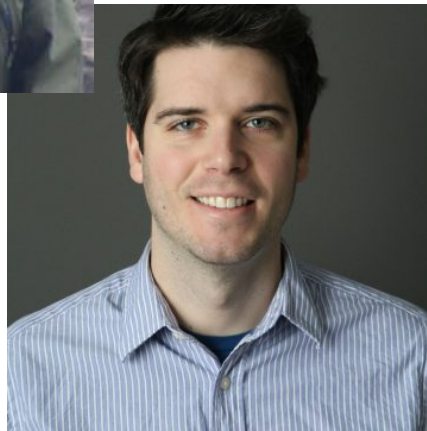


MICHIGAN STATE
UNIVERSITY



MSU Personnel

Dr. Fritz Nelson (Co-PI)

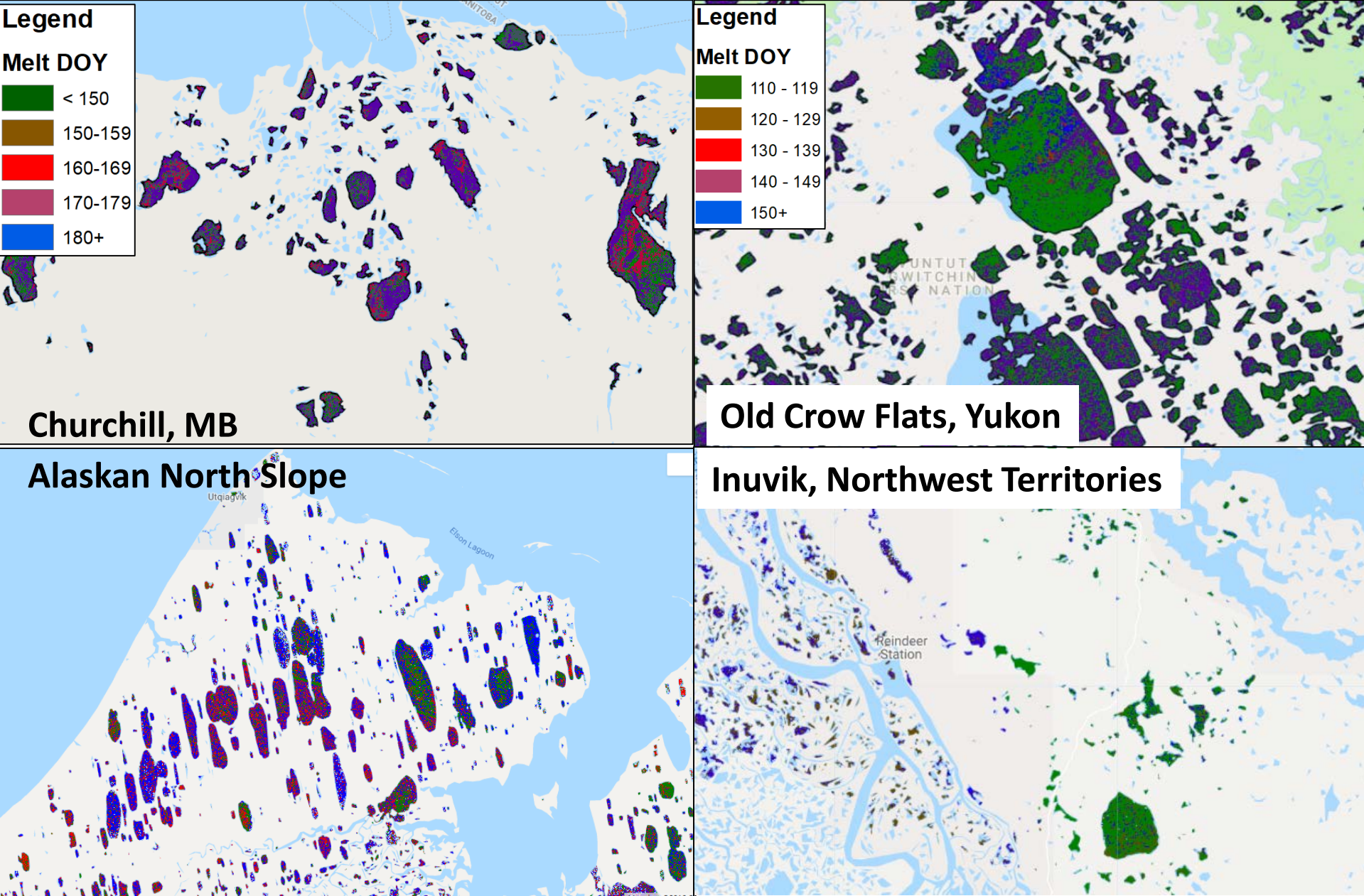


Dr. Grant Gunn (Co-PI)

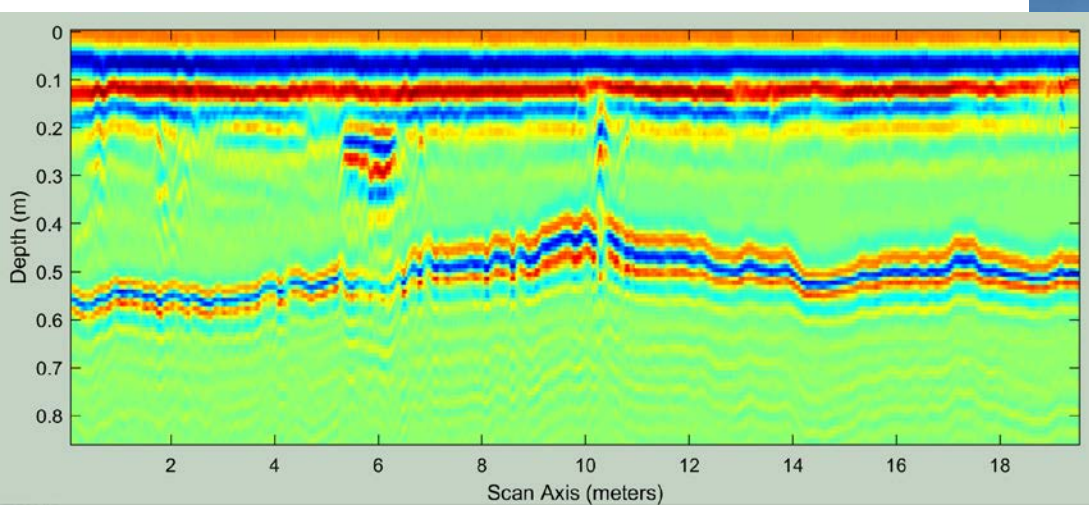
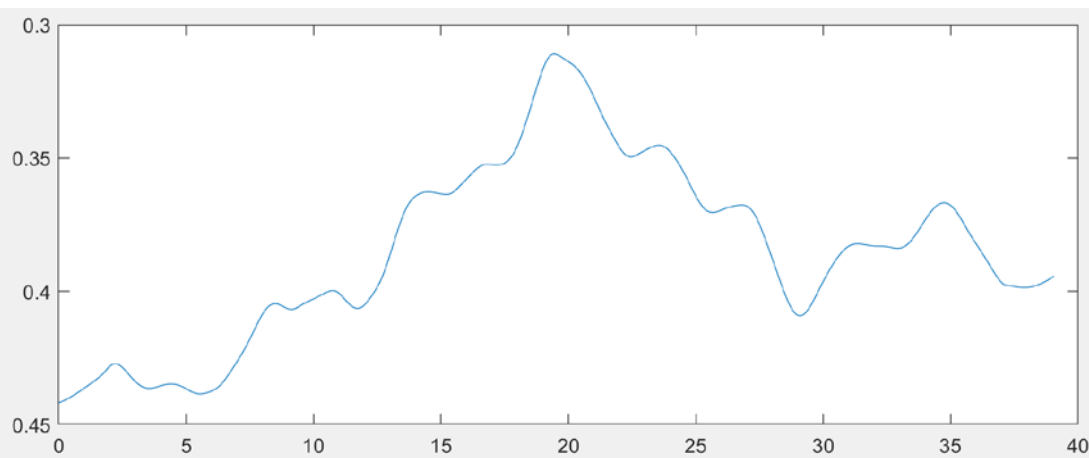
Current Students:
Raven Mitchell & Kelsey Nyland



Google Earth Engine – Ice Phenology



Ice Considerations for Underwater Pipelines – Enbridge's Line 5



Impacts: Ice Types and Concentration

- NOAA National Environmental Satellite, Data and

