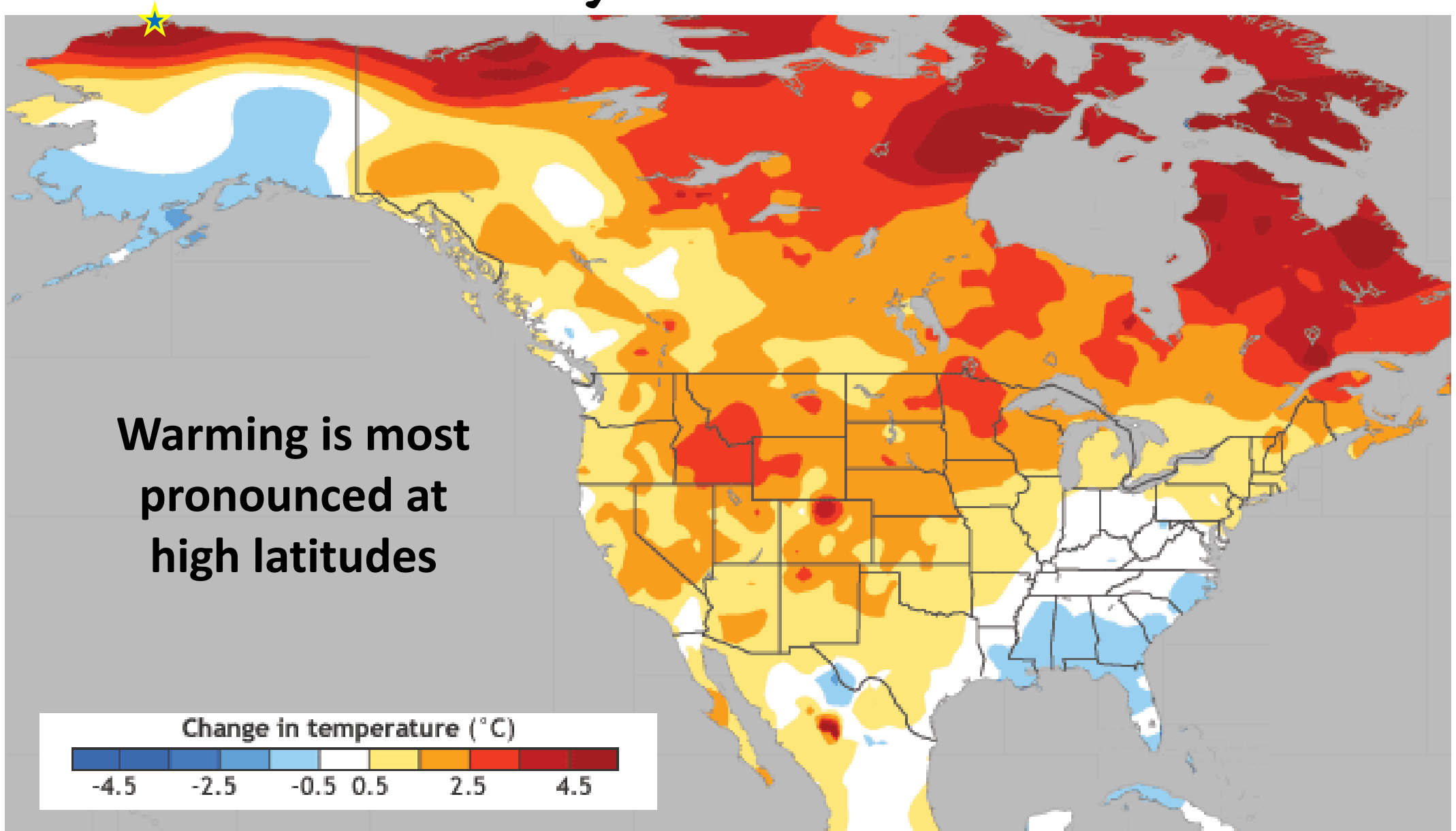


# International Tundra Experiment (ITEX) Update

Katlyn Betway &  
Mackenzie Lift  
Grand Valley State University



# Why the Arctic?



*This project is part of the*  
**I**nternational **T**undra **E**xperiment (**ITEX**)



A network of arctic  
researchers from over  
11 countries

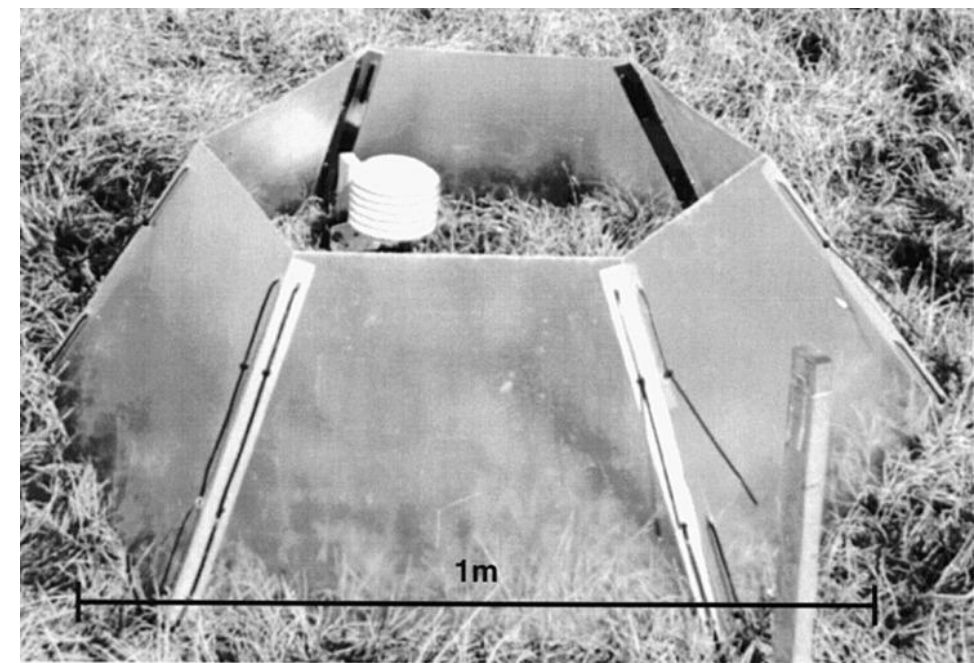
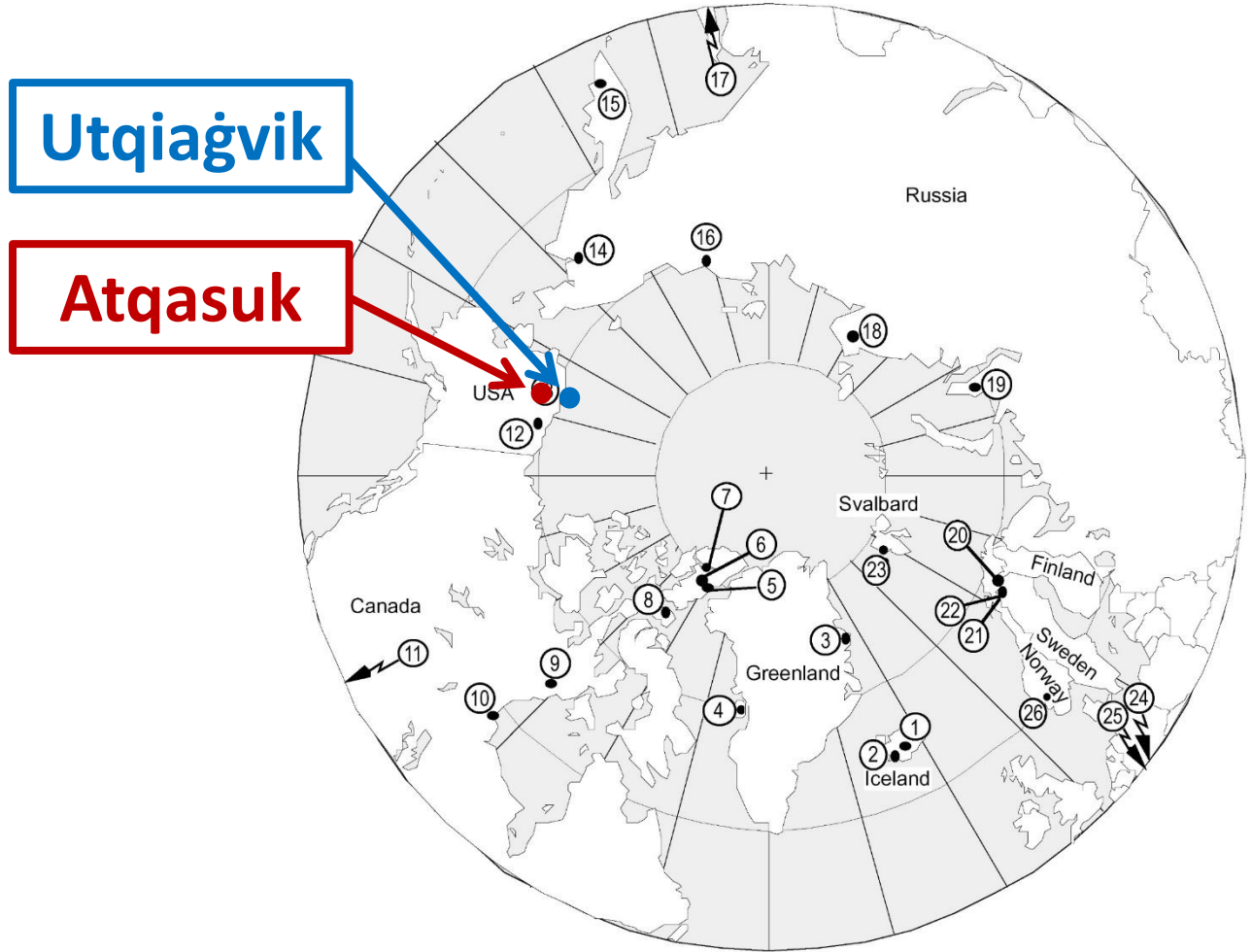




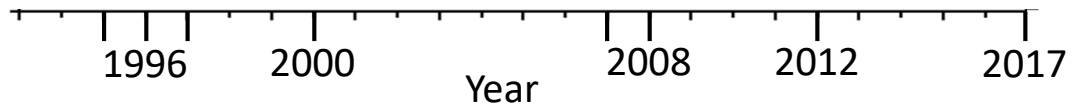
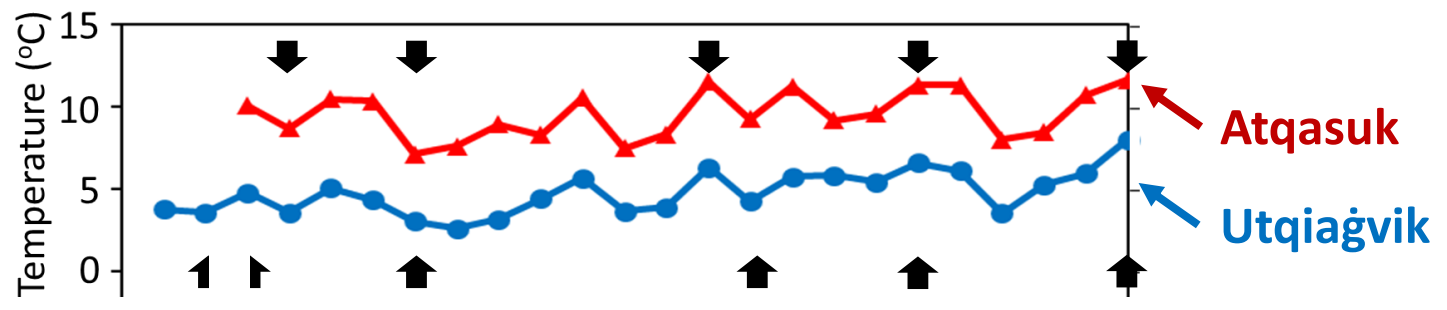
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**I**nternational **T**undra **E**xperiment (**ITEX**)

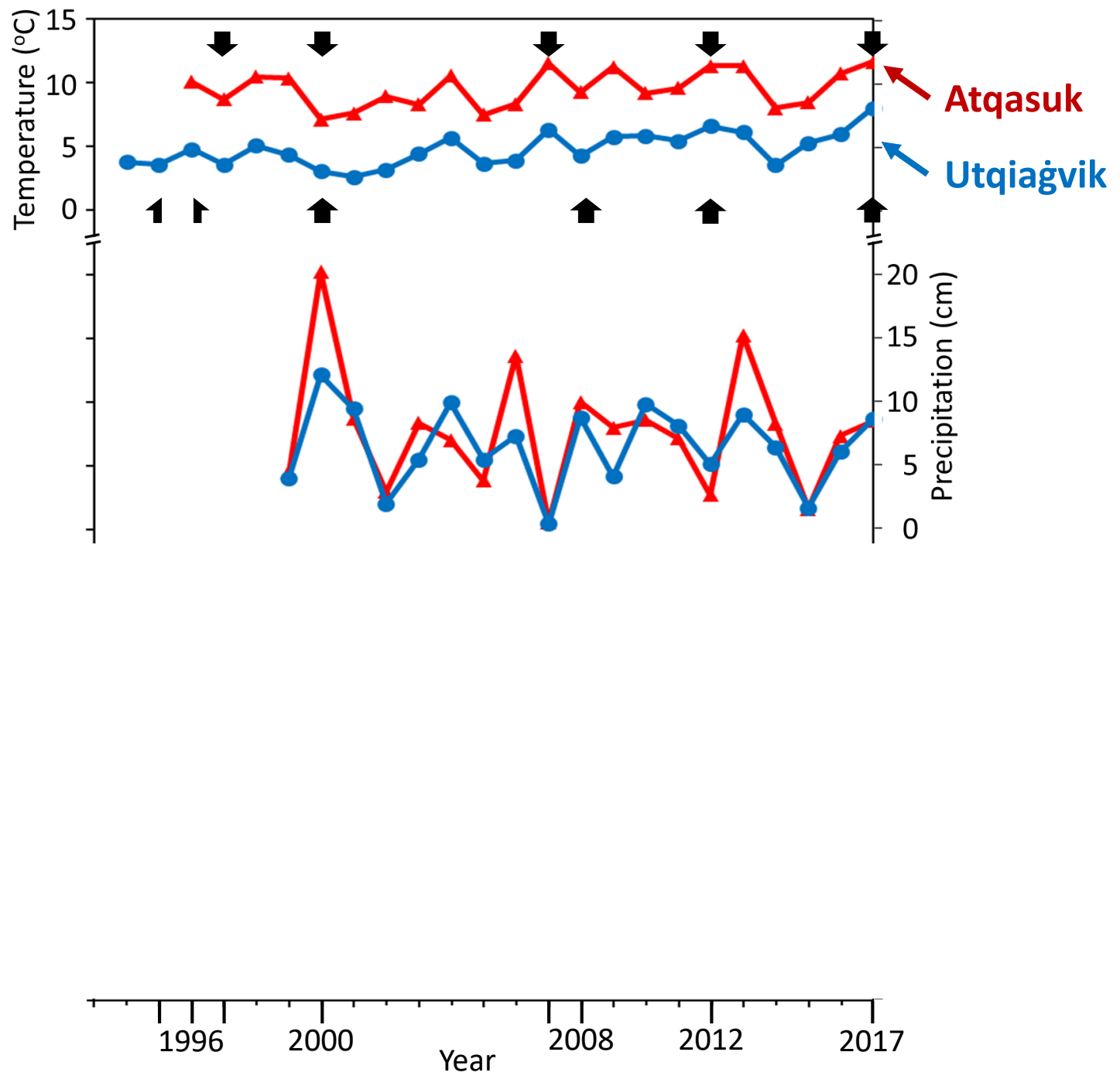


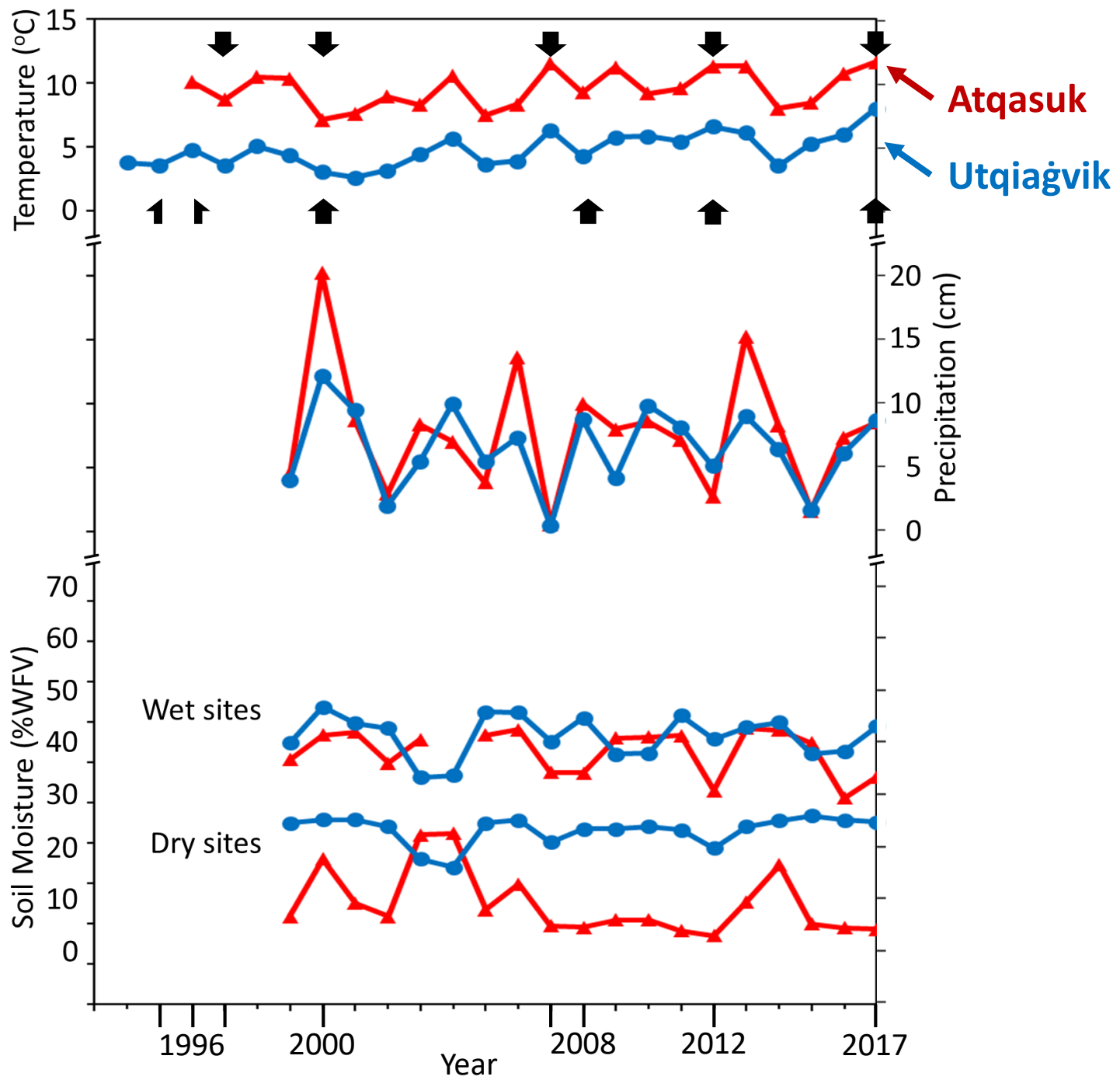
A network of arctic  
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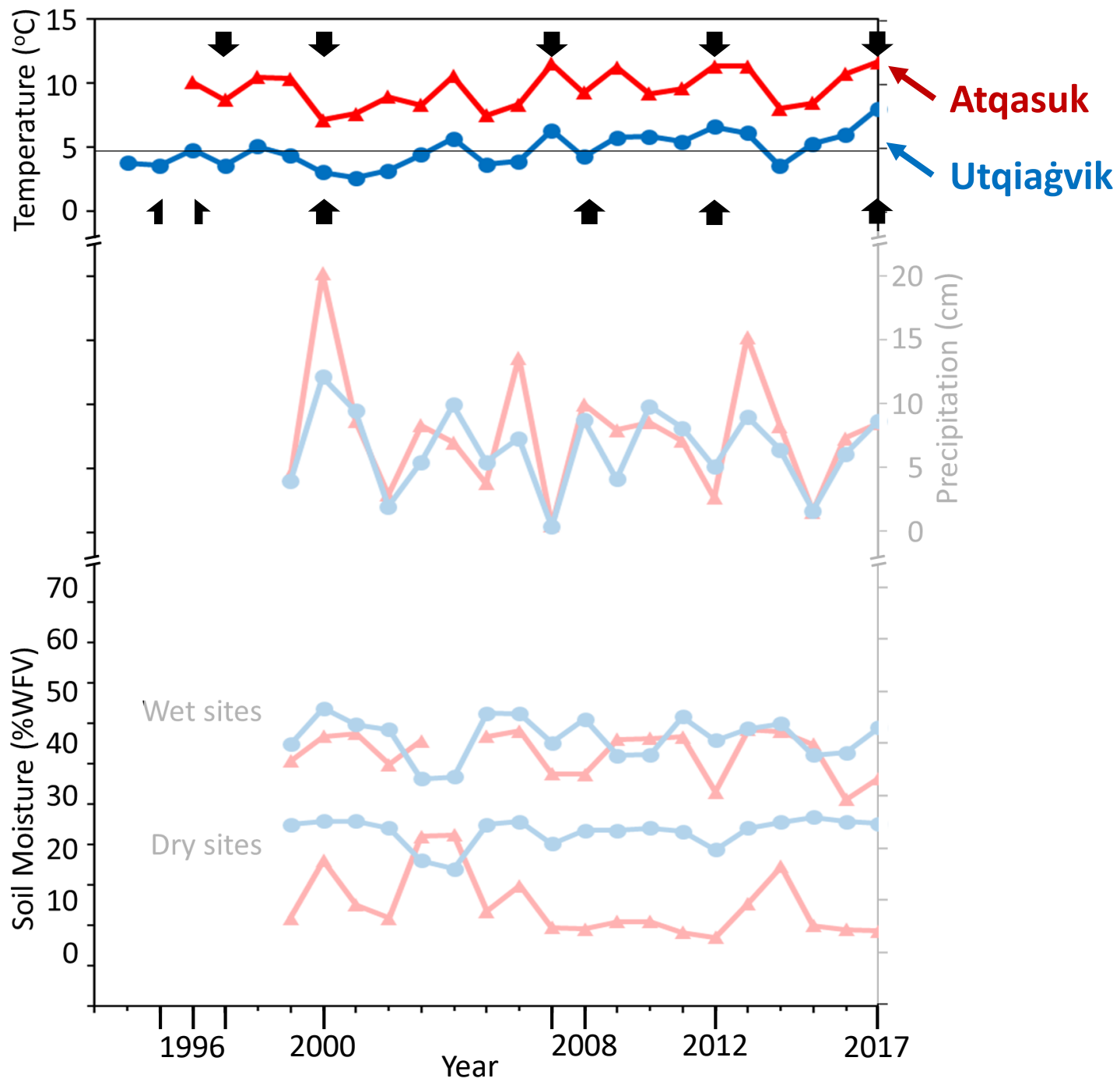


An ITEX open-top chamber (OTC).

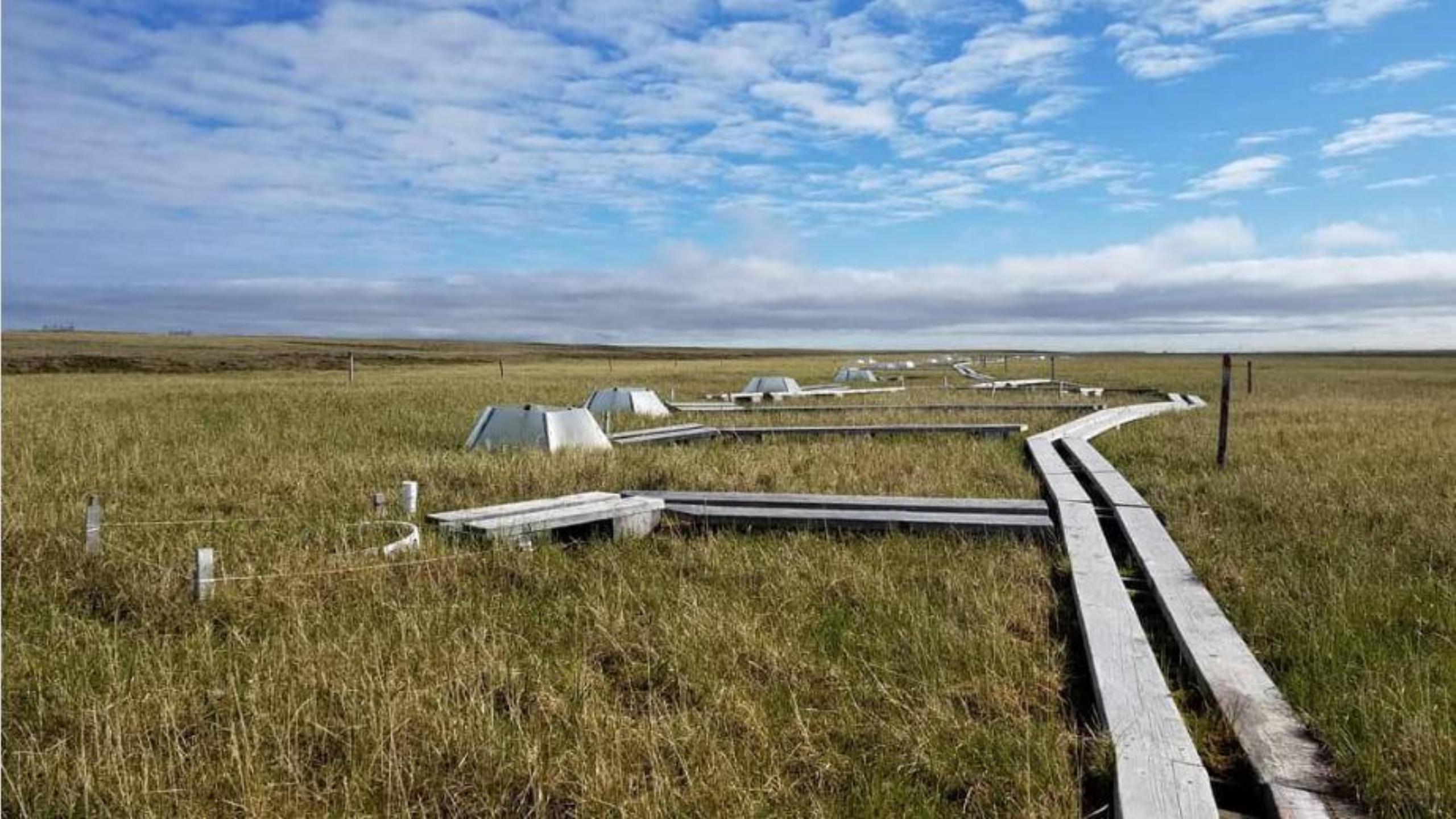














# Open-Top Chambers (OTCs)

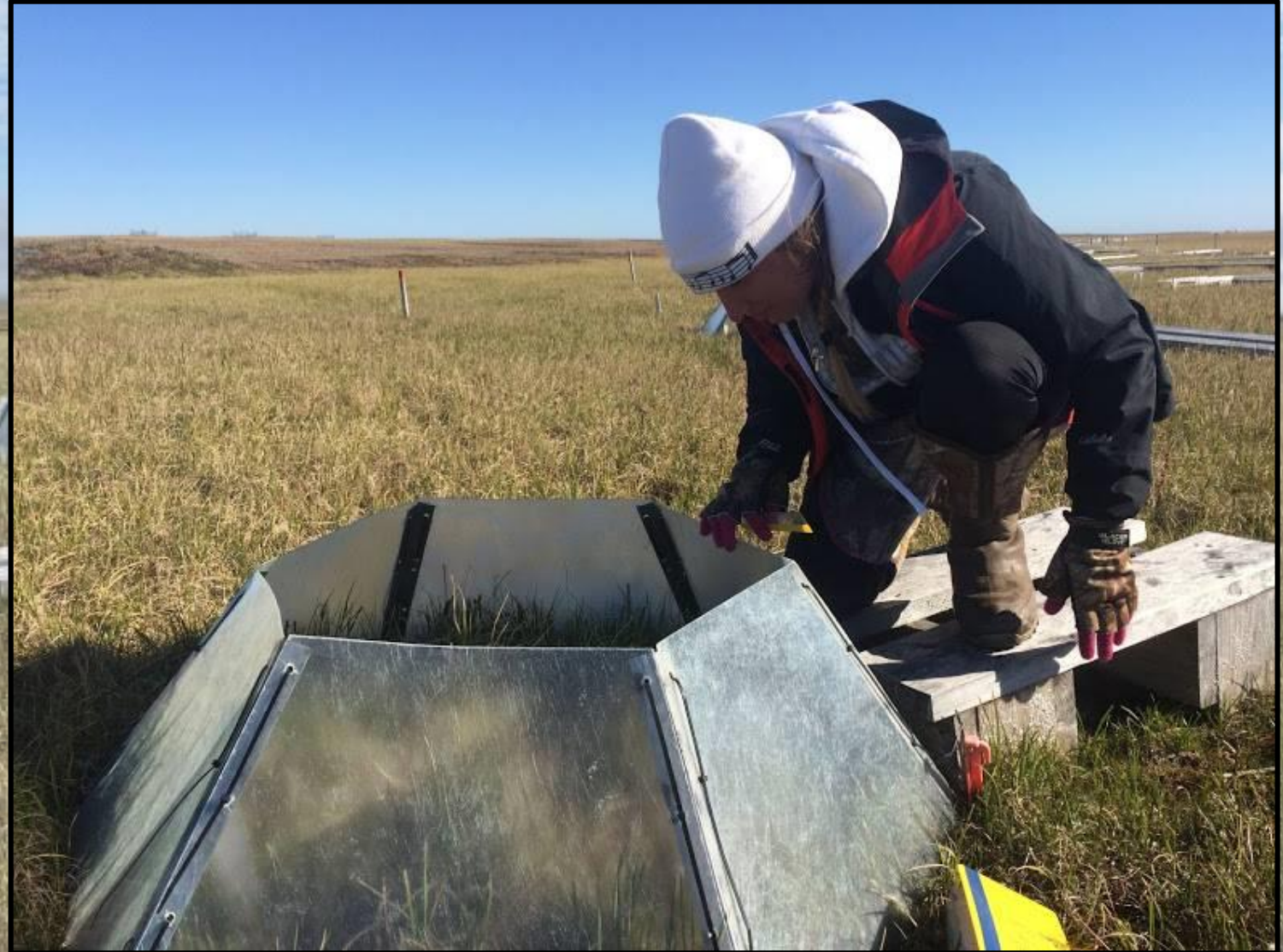
Raise temperature 2-3°C

## *Dry Heath Site*

- 24 OTC plots
- 24 Control plots

## *Wet Meadow Site*

- 24 OTC plots
- 24 Control plots





# Phenology



# Phenology





# Phenology





# Growth Measures





# Flower Counts



# Flower Counts





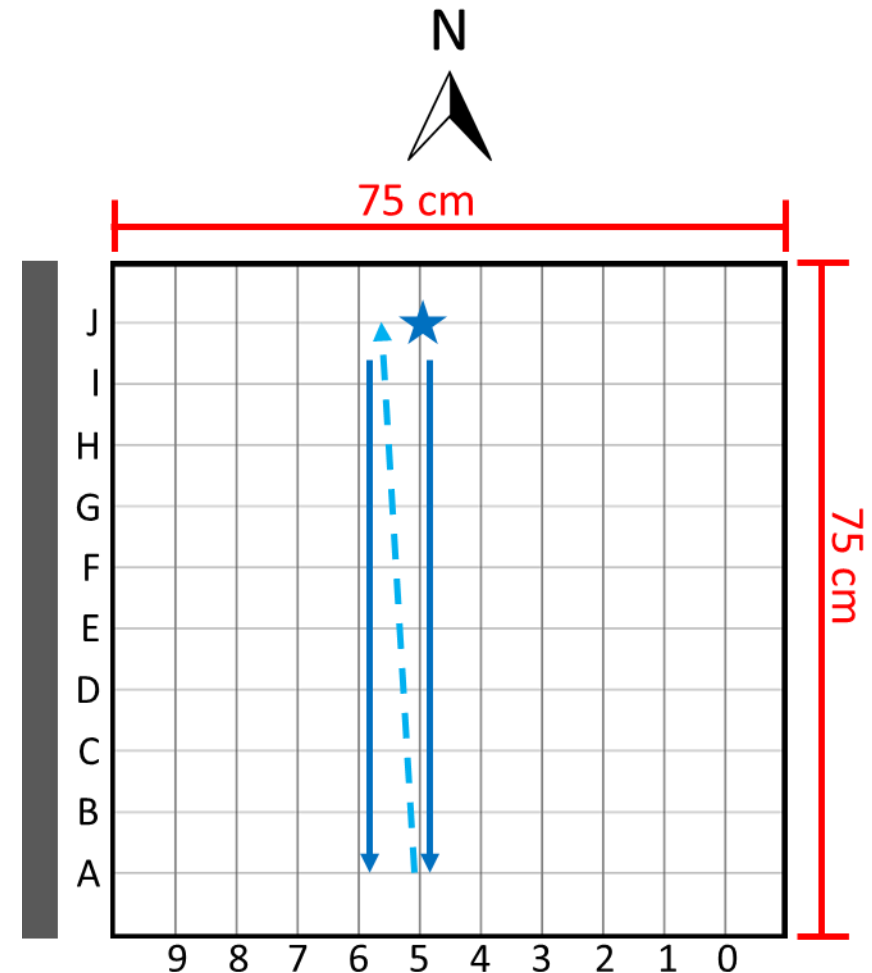
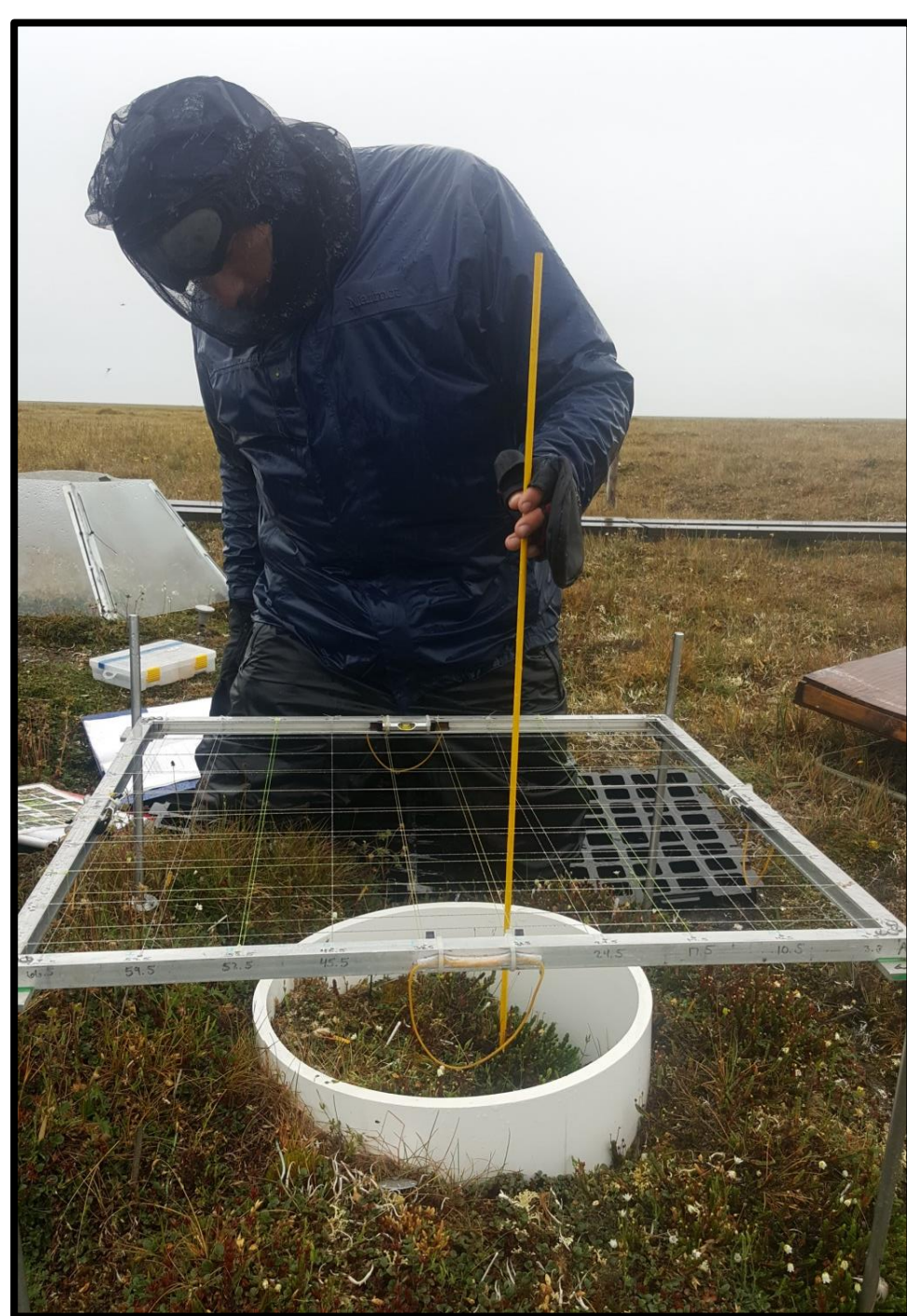
# Flower Counts





# Pointframing

- Same two weeks each year
- Point frame grid
  - 75cm x 75cm
  - 100 points
- At each point:
  - Every contact from canopy to ground
    - Species
    - Live/Dead Status
    - Height





# Utqiagvik Dry



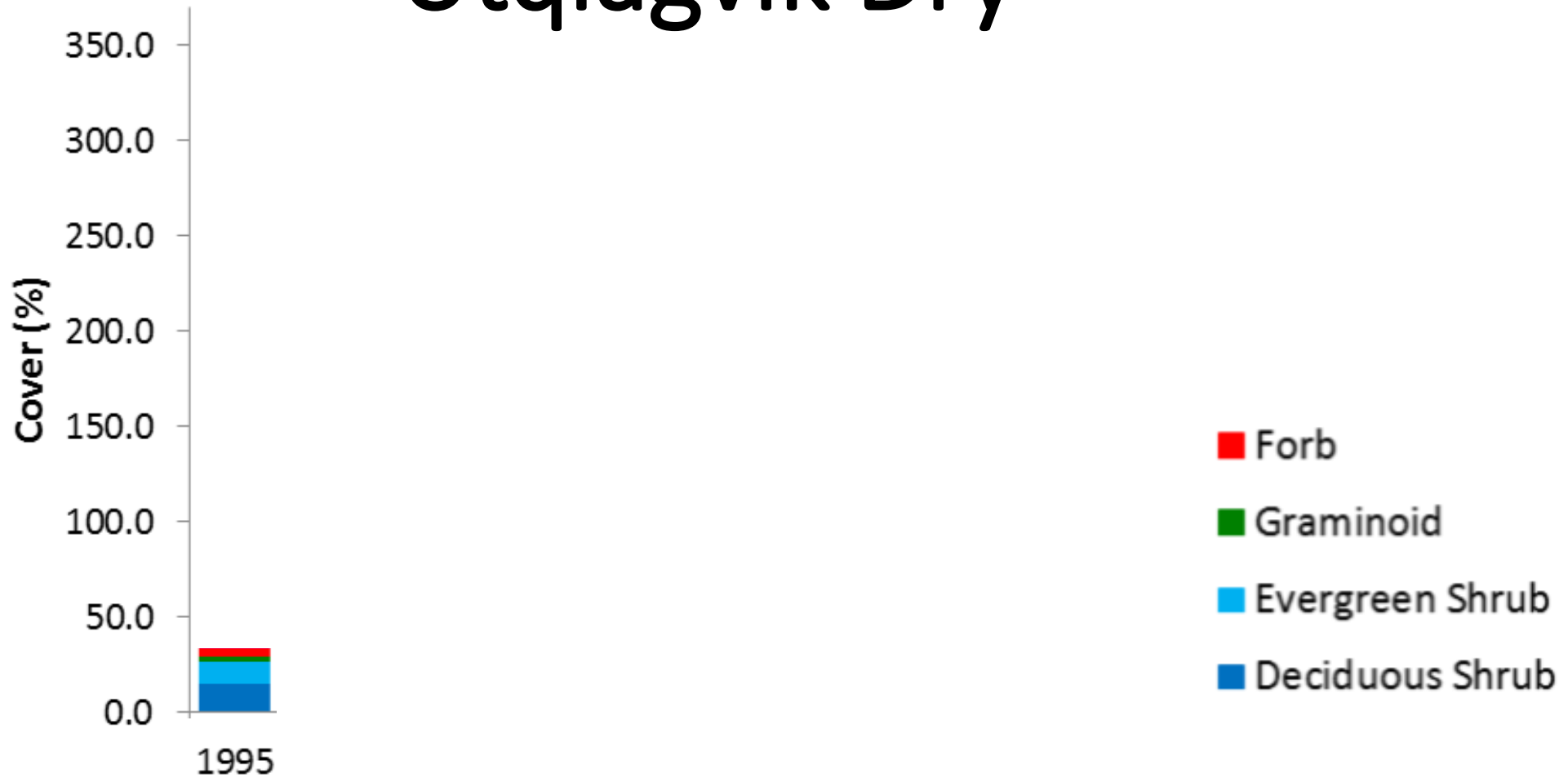
# Utqiagvik Dry



# Utqiagvik Dry



# Utqiagvik Dry



# Utqiagvik Dry





# Utqiagvik Dry



# Utqiagvik Dry



# Utqiagvik Dry



# Utqiagvik Dry

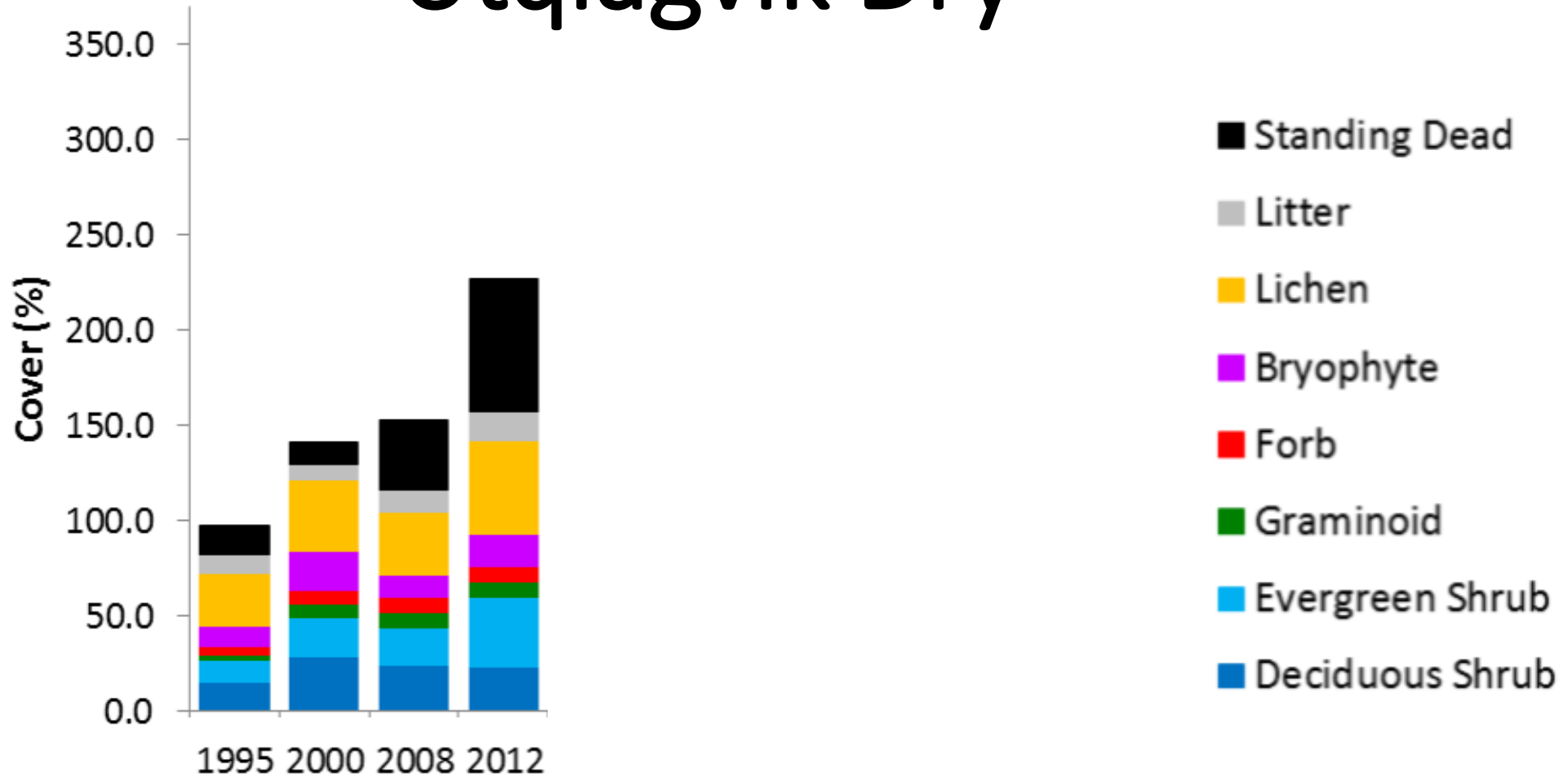


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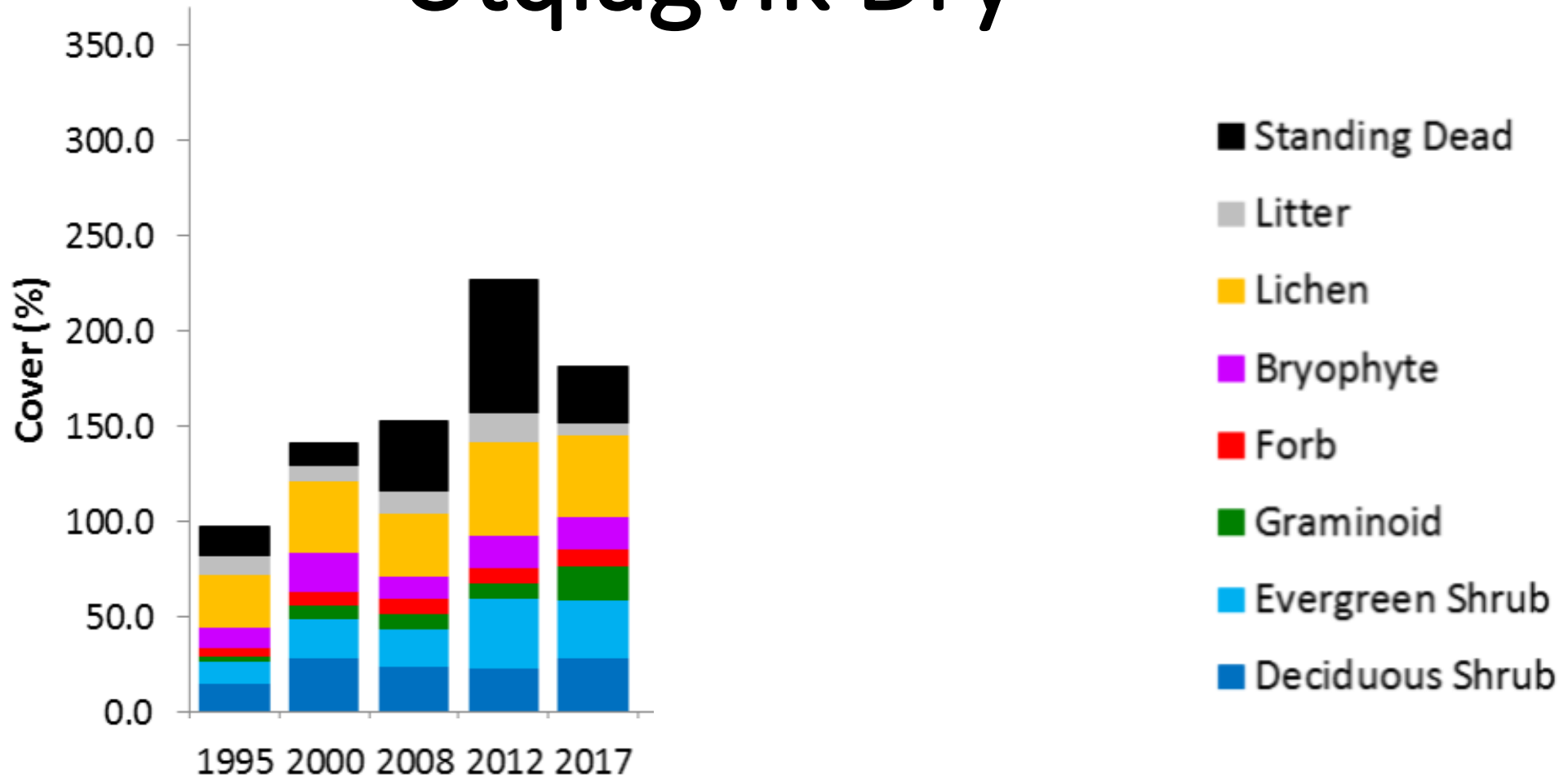




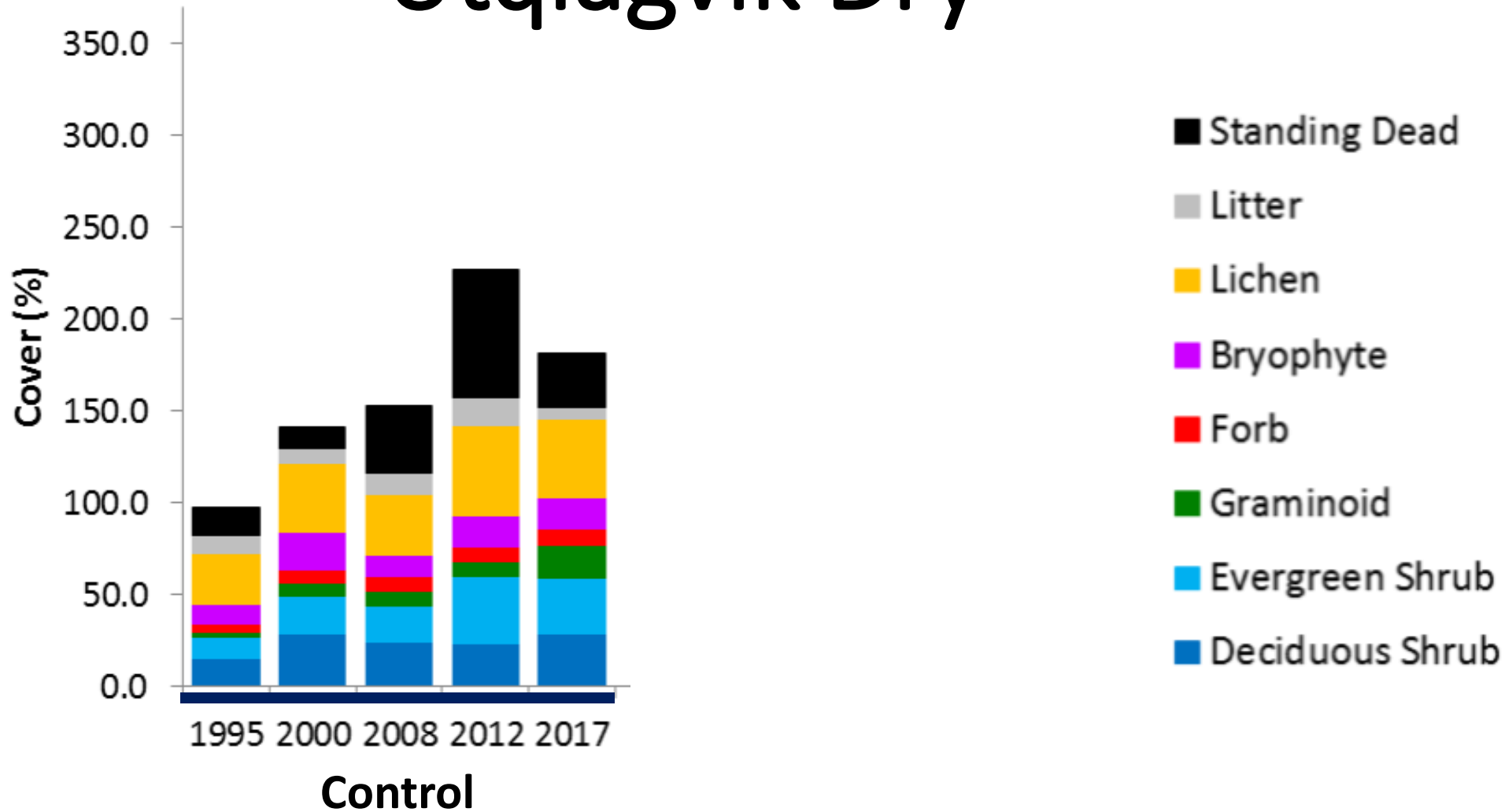
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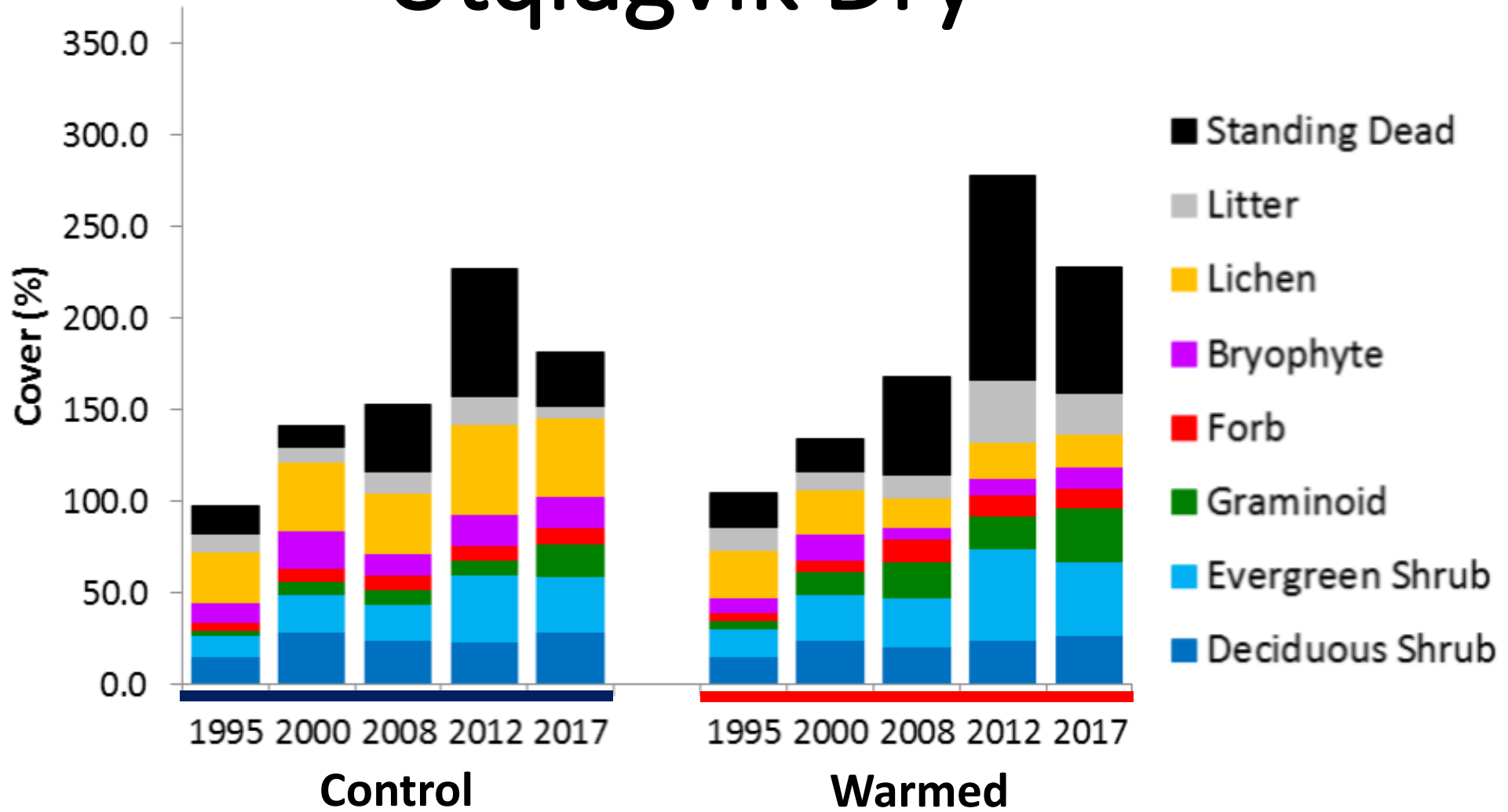
# Utqiagvik Dry



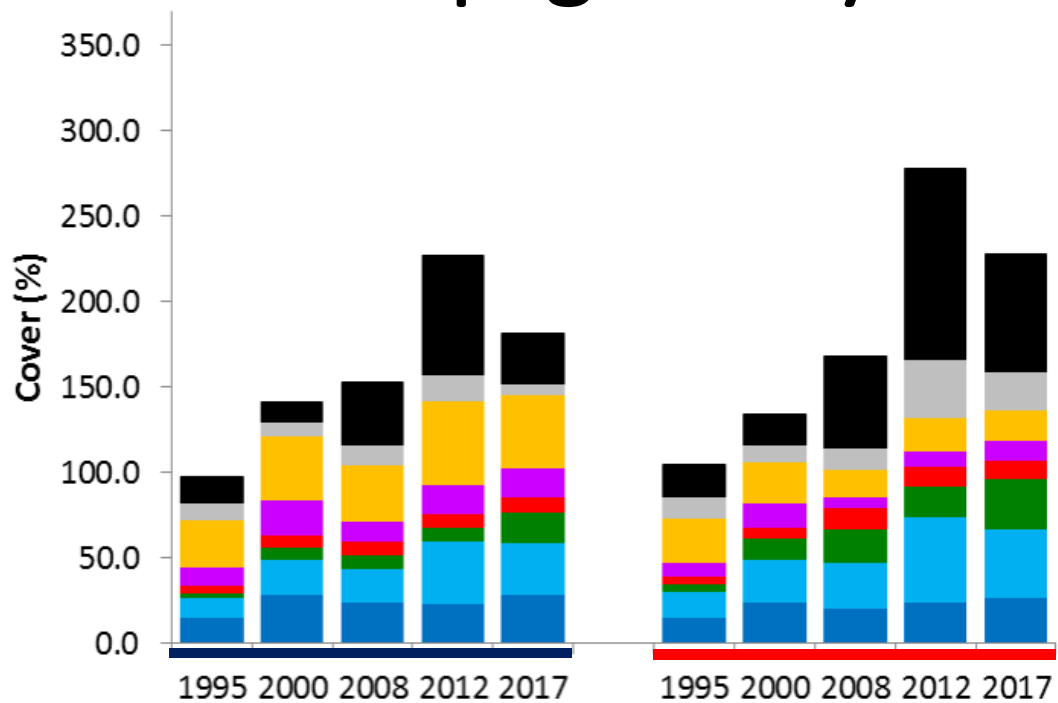
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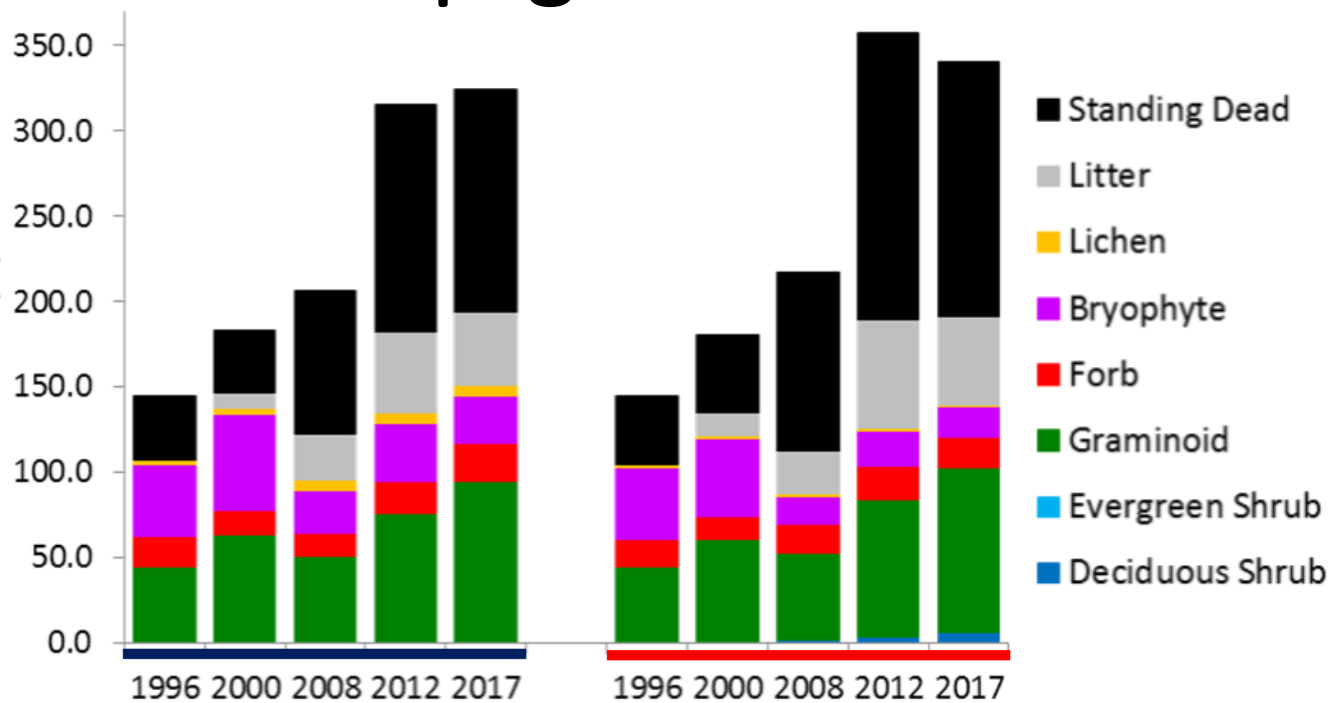
# Utqiagvik Dry



# Utqiagvik Dry



# Utqiagvik Wet



# Deciduous Shrubs are

## Utqiagvik Dry

## Utqiagvik Wet

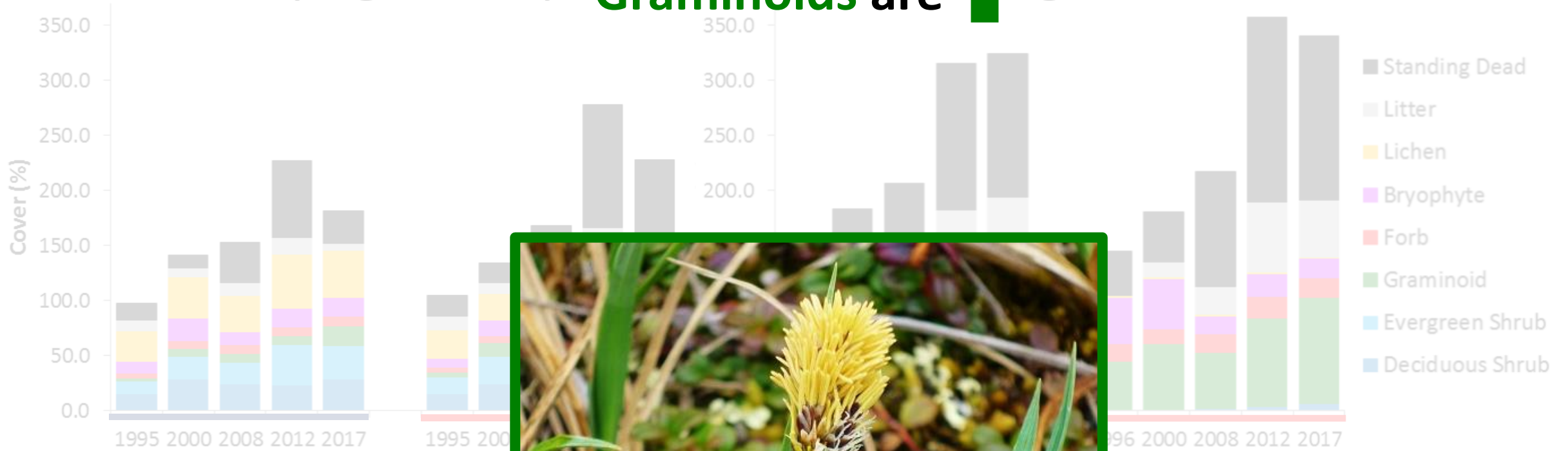


**Deciduous Shrubs are** 

Utqiagvik Dry

**Graminoids are** 

Utqiagvik Wet





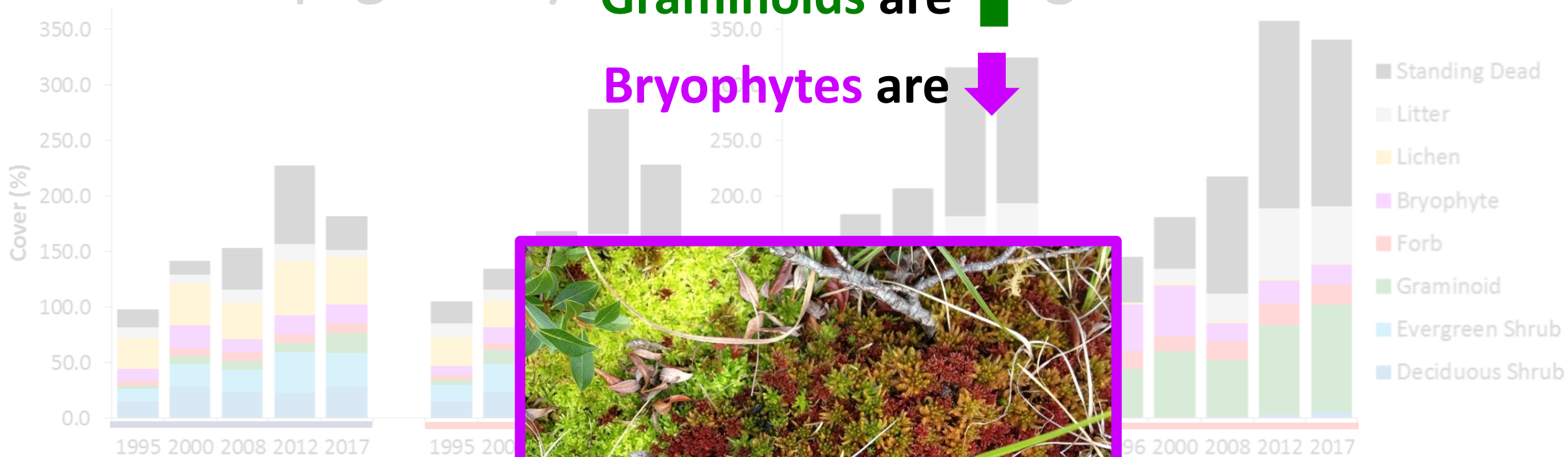
**Deciduous Shrubs are** 

Utqiagvik Dry

**Graminoids are** 

Utqiagvik Wet

**Bryophytes are** 



**Deciduous Shrubs are** 

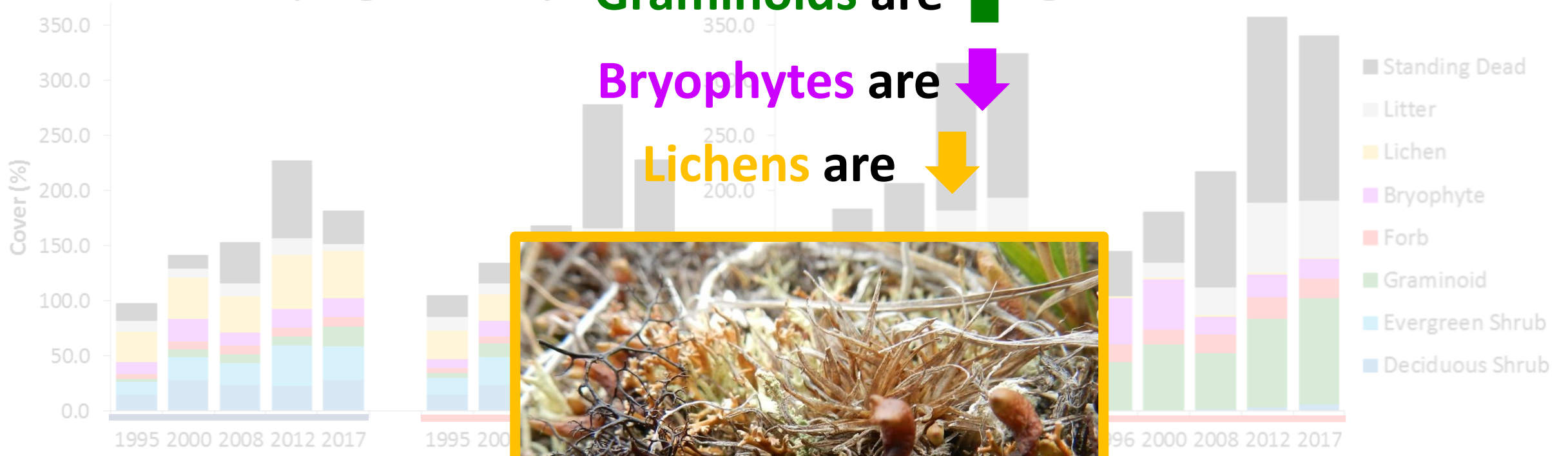
Utqiagvik Dry

**Graminoids are** 

Utqiagvik Wet

**Bryophytes are** 

**Lichens are** 



# People that made this work possible



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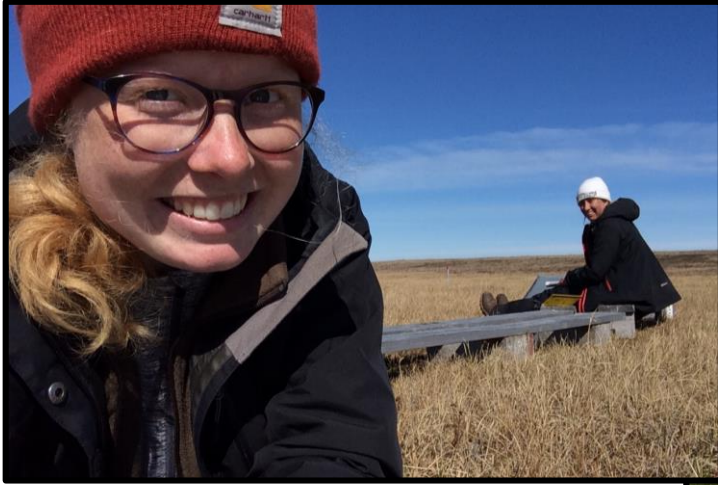
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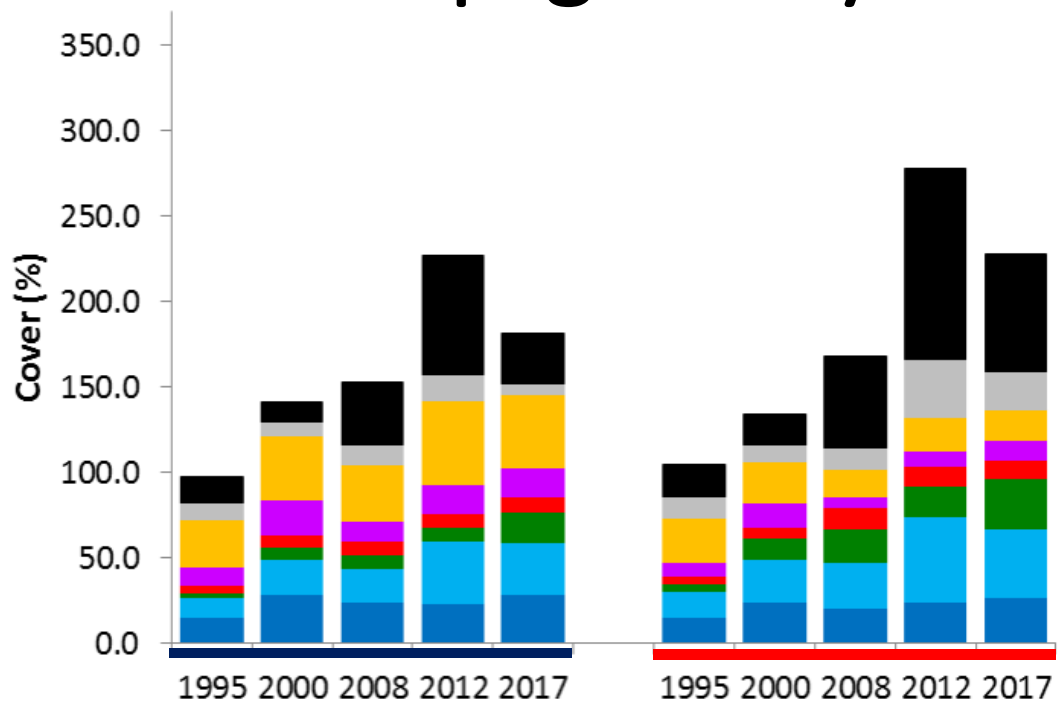




# Questions?



# Utqiagvik Dry



# Utqiagvik Wet

