

# Data Management and Building Community in a Global Synthesis of Under-Ice Productivity

Kara H. Woo, Stephanie E. Hampton, Aaron W. E. Galloway  
Washington State University



# What goes on under ice in lakes?



Photo: Ted Ozersky

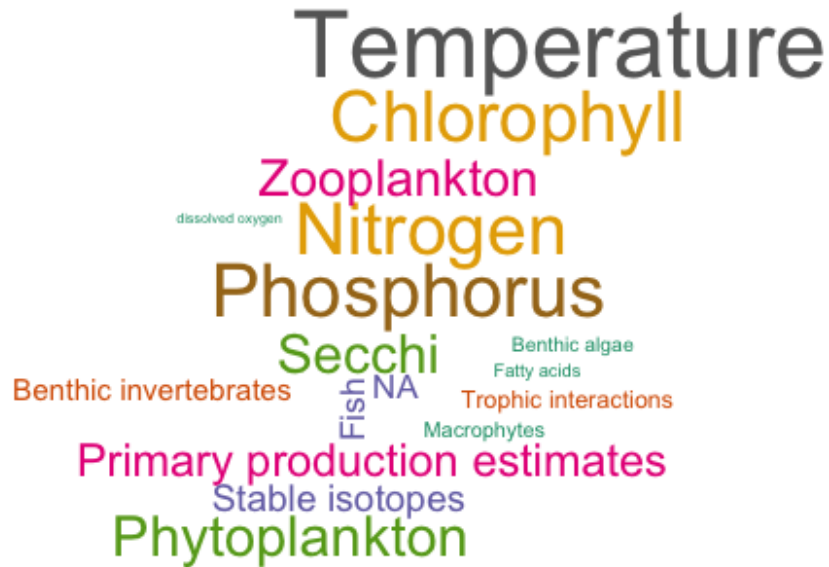
# Challenges for synthesis

1. Managing communications
2. Integrating heterogeneous data
3. Building a sense of community



# Step 1: Gauging interest

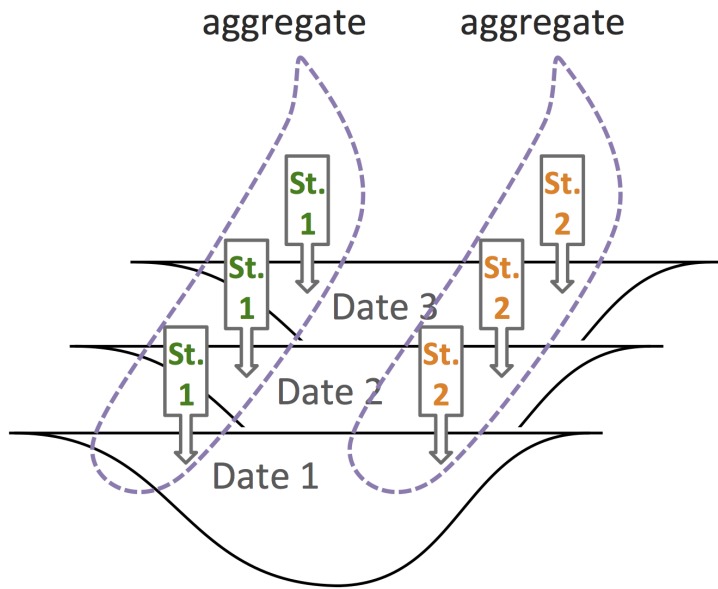
>100 survey responses



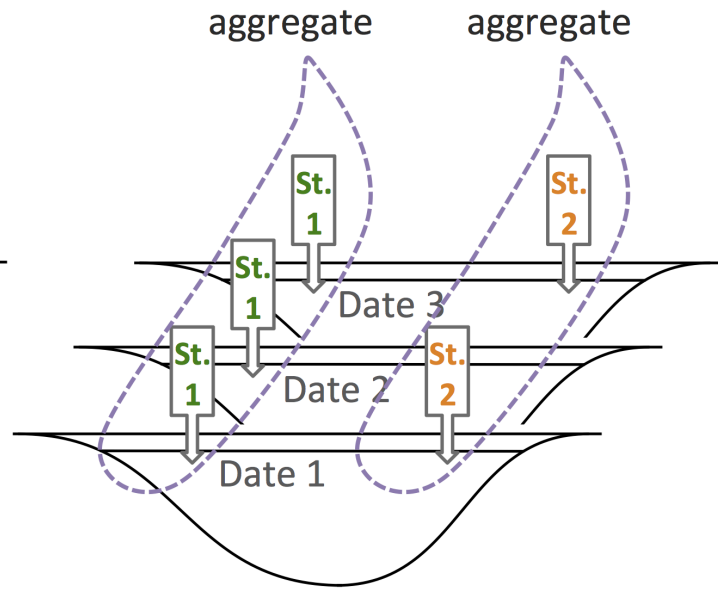
## Step 2: Data Template

# Goals

1. Integrate data as seamlessly as possible
2. Encourage sharing



*ice-free*



*ice-on*



# Policies


- Document describing how data would be used and shared
- Internally to project collaborators first, then eventually public

## Step 3: Validate Data

# R package **icetest**

<https://github.com/karawoo/icetest>


 karawoo / icetest


 Unwatch ▾ 1

 Star 1

 Fork 0

QA/QC for under-ice ecology synthesis data — Edit

 109 commits

 2 branches

 0 releases

 1 contributor



 branch: master ▾


**icetest** / +









Merge branch 'master' of github.com:karawoo/icetest



**karawoo** authored 6 days ago

latest commit [a655af2a25](#) 

|   |  |              |
|---|--|--------------|
|  R             | remove mu symbol from documentation          | 8 days ago   |
|  data-raw      | make the list of valid field names available | 3 months ago |
|  data          | make the list of valid field names available | 3 months ago |
|  man           | remove mu symbol from documentation          | 8 days ago   |
|  tests         | add function to check nitrogen values. #29   | 16 days ago  |
|  .Rbuildignore | add sample script for checking a data file   | 5 months ago |

 Code

 Issues 3

 Pull requests 0


 Wiki

 Pulse

 Graphs

 Settings

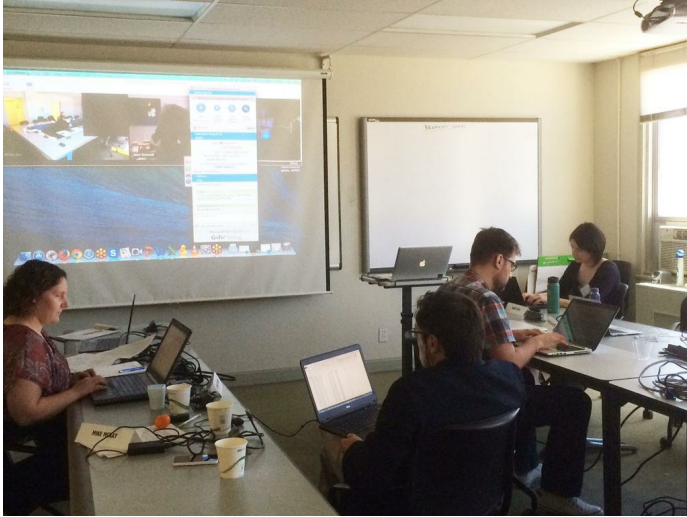
SSH clone URL

<git@github.com:karawoo/icetest.git> 

## **Step 4: Lots of Email**

# Step 5: The Fun Part

# Workshop at NCEAS



# Collaborative website

[Home](#) [My page](#) [Projects](#) [Administration](#) [Help](#)

Logged in as **woo** [My account](#) [Sign out](#)

## Core Under Ice Ecology Work

Search:  [Core Under Ice Ecology Work](#)


[Overview](#) [Activity](#) [Issues](#) [New issue](#) [Documents](#) [Wiki](#) [Repository](#) [Settings](#)

### Overview

Where you'll find core documents, protocols, analysis, and other materials relating to the initial group manuscript.

**Helpful links**

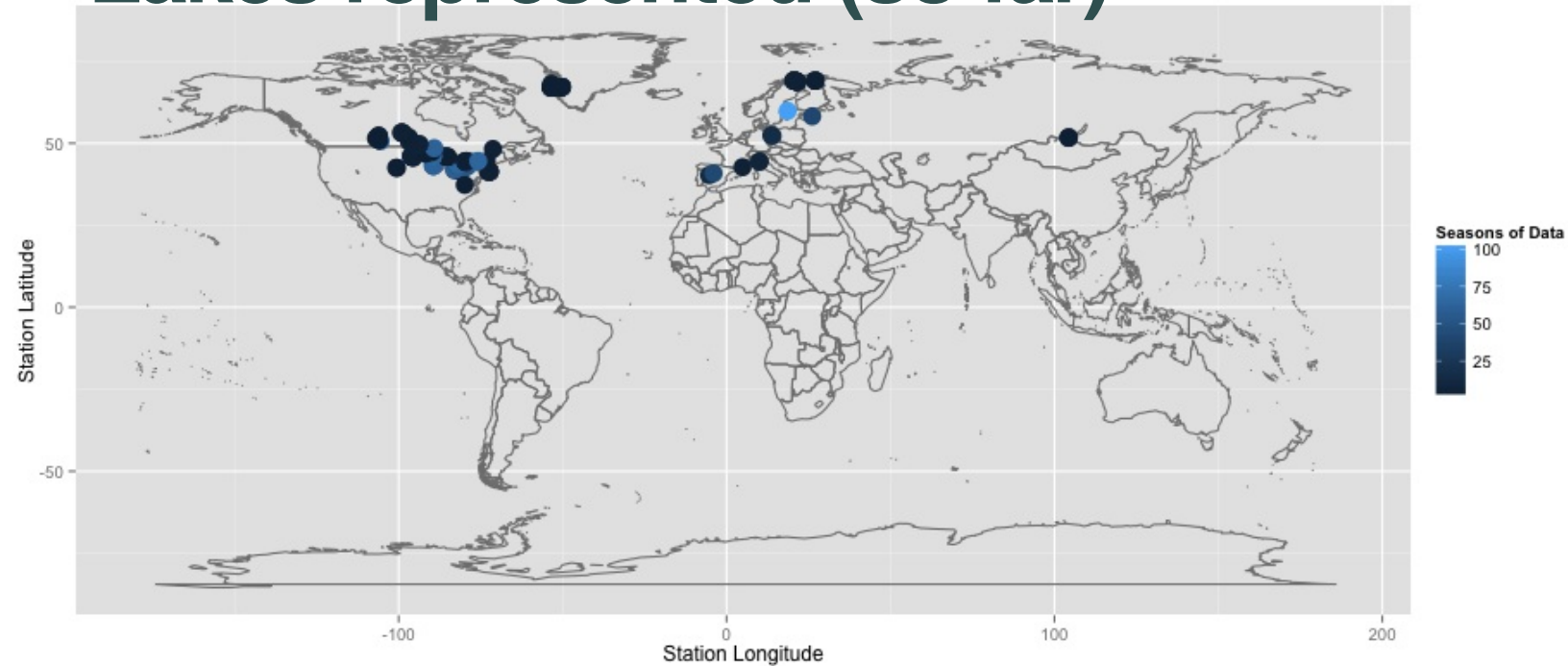
- [Logistics](#)
- [Projects underway](#)
- [Propose a project](#) - see [here](#) for an example
- [Data](#)

 **Issue tracking**

- Proposed project:** 2 open / 2
- Project underway:** 1 open / 1
- Task:** 4 open / 4
- Other:** 8 open / 8
- Code:** 6 open / 6
- Breakout groups:** 8 open / 8
- Pull request:** 0 open / 0

[View all issues](#)[New subproject](#) [Close](#) **Members****Spent time**

# Lakes represented (so far)





# Conclusions

- Plan ahead
- Centralize communication
  - Email lists
  - Project website (Redmine, Open Science Framework, etc.)