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

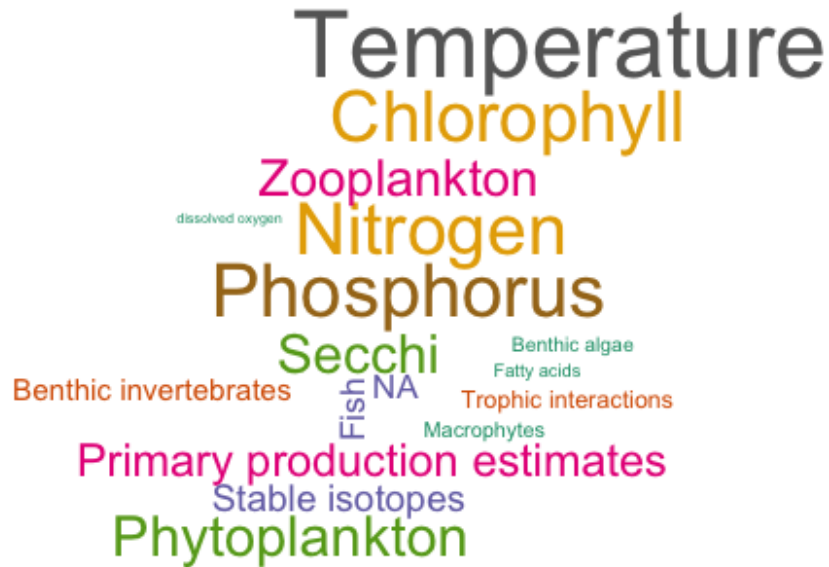# What goes on under ice in lakes?

Photo: Ted Ozersky

Challenges for synthesis

1. Managing communications

2. Integrating heterogeneous data
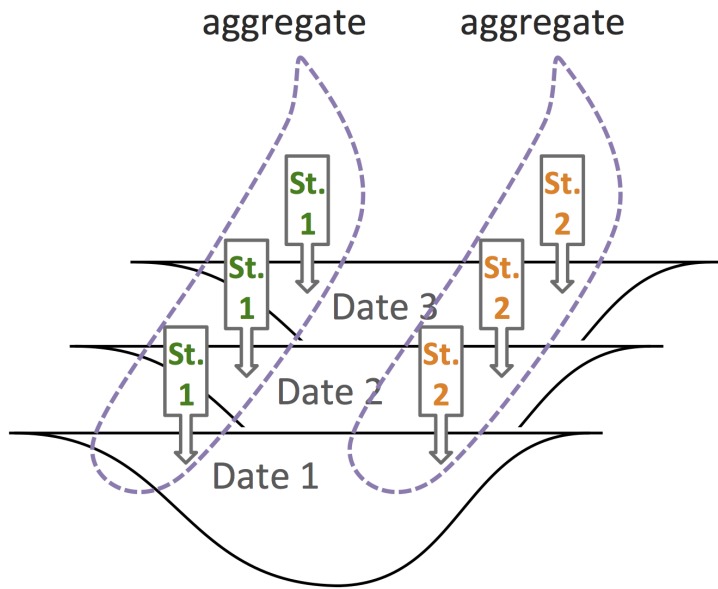
3. Building a sense of community

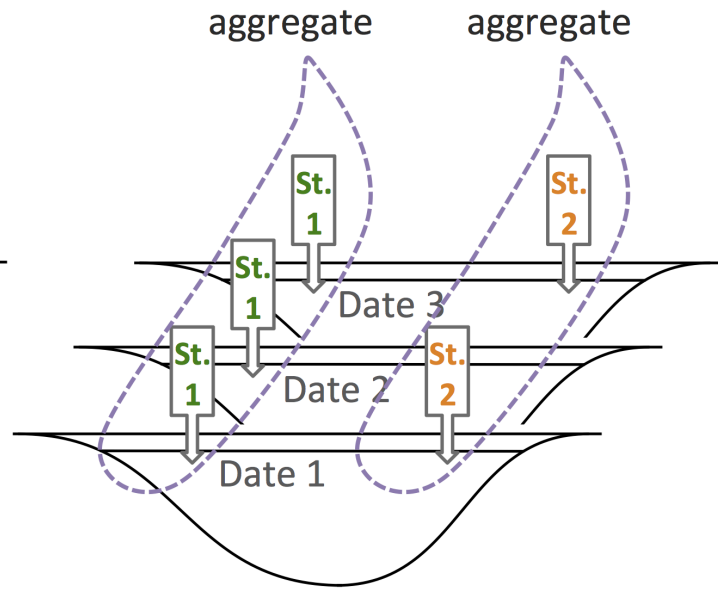Photo: Ted Ozersky

Step 1: Gauging interest

>100 survey responses

Step 2: Data Template

Goals

1. Integrate data as seamlessly as possible

2. Encourage sharing

aggregate   aggregate   aggregate   aggregate

St. 1   St. 2   St. 1   St. 2

St. 1   Date 3   St. 2   St. 1   Date 3   St. 2

St. 1   Date 2   St. 2   St. 1   Date 2   St. 2

Date 1   Date 1

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

Step 4: Lots of Email

Step 5: The Fun Part

Workshop at NCEAS

Photos: Stephanie Hampton (left), NCEAS (right)

Collaborative website

Lakes represented (so far)
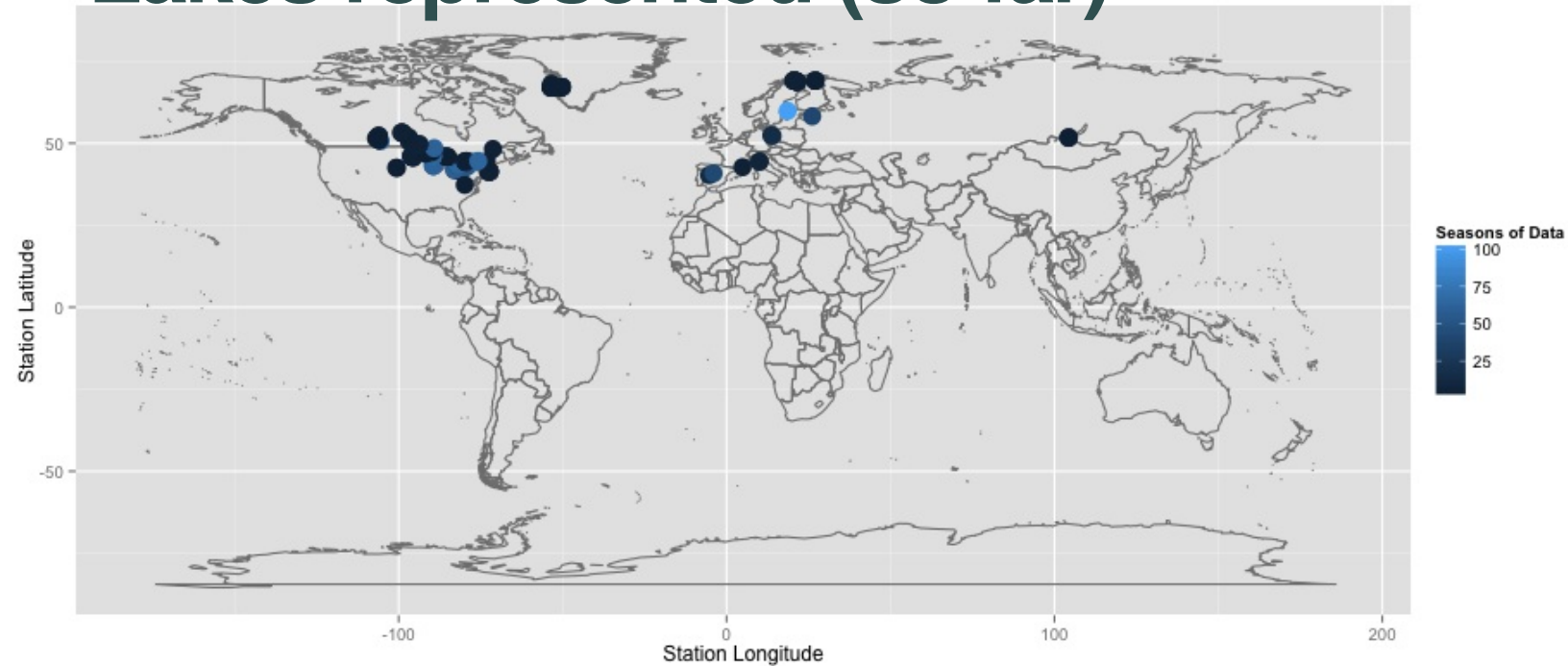
Conclusions

- Plan ahead

- Centralize communication

  - Email lists

  - Project website (Redmine, Open Science Framework, etc.)