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

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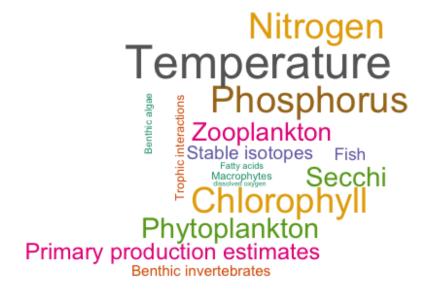
What goes on under ice in lakes?



Photo: Ted Ozersky

Just how broad is interest in under ice ecology?

>100 survey responses, >80 with data on:



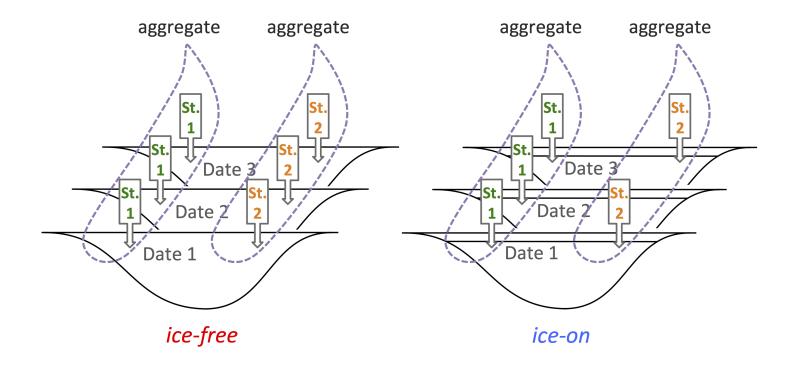
Challenges for synthesis

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

Data Template

Goals

- 1. Integrate data as seamlessly as possible
- 2. Encourage sharing
- 3. Use researchers' system-specific knowledge



Policies

Document describing how data will be used and shared

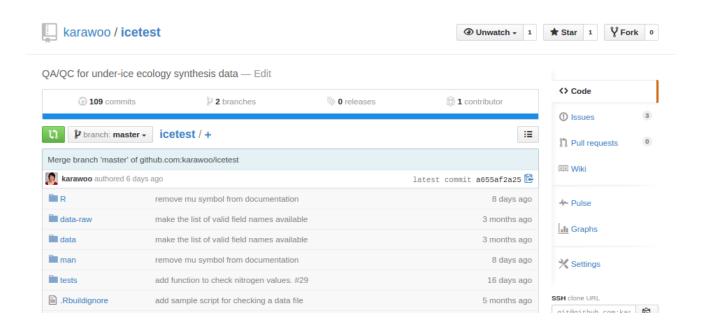
Internally to collaborators first, then eventually public

Policies shared early and often

Validate Data

R package icetest

https://github.com/karawoo/icetest



Lots of Email

The Fun Part

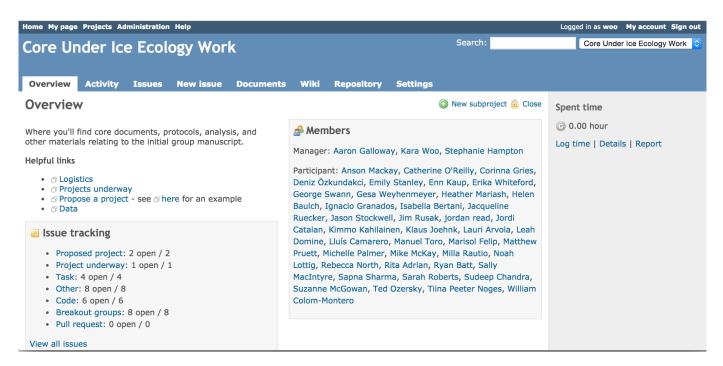
Workshop at NCEAS



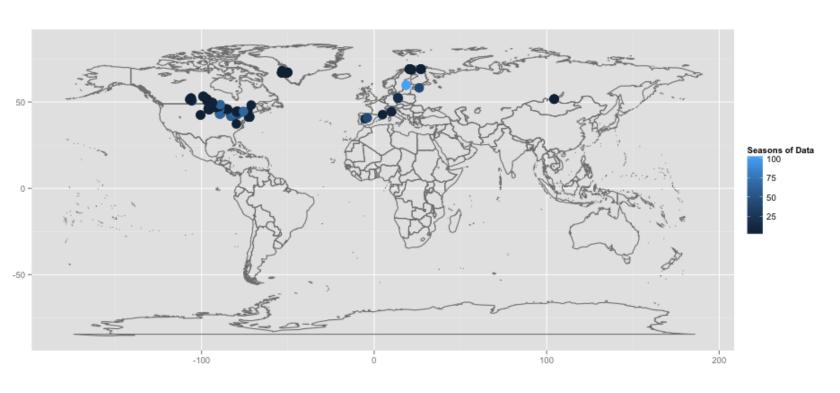


Photos: Stephanie Hampton (left), NCEAS (right)

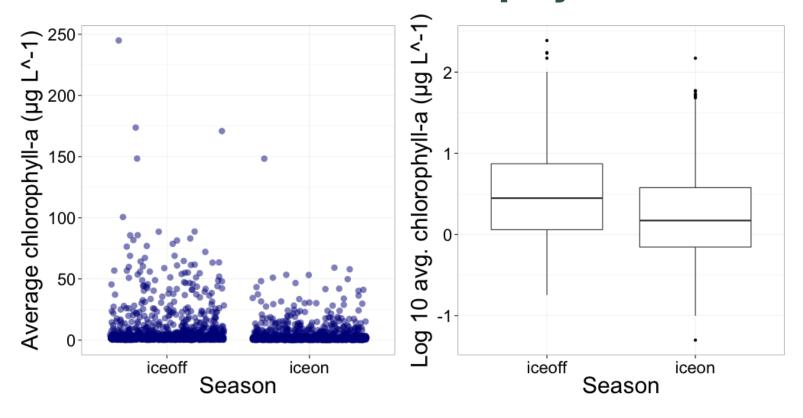
Collaborative website



86 lakes represented (so far)



Ice-off vs. ice-on chlorophyll-a



Conclusions

Managing communications

Integrating heterogeneous data

Building community

Incentives

- Be responsive
- Centralize communication
- Plan ahead for data integration
- Validate the data
- Be inclusive
- Communicate expectations early and often

Acknowledgements

NSF DEB #1431428

Ice workshop steering committee: Emily Stanley, Ted Ozersky, Chris Polashenski

Undergraduate researcher: Matthew Pruett

National Center for Ecological Analysis and Synthesis