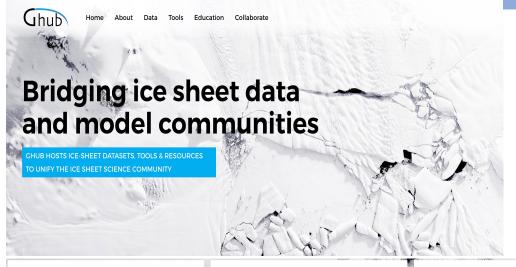
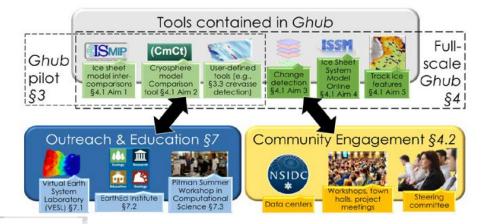
Award #: 2004302, Collaborative Research: Frameworks: Ghub as a community-driven data-model framework for ice-sheet science



What is Ghub?

Ghub project-scale workflow



Data

Hosted ice sheet and paleoglaciology data derived from multiple sources.

Tools

Computational tools and hosted codes help with data analysis and visualization.

Education

GHub's visualizations and highperformance computing support teaching and outreach. Many datasets and tools made available already for sharing and online execution – Jupyter notebooks for data analysis etc.

Some Lessons

- Identify and obtain good User input from one or more focused science groups – ISMIP6 provide Ghub many useful lessons and early focus.
- Steering committee with users and partner representatives.
- Plan for staff turnover with shared responsibilities.

University at Buffalo

- Jason Briner (domain, ice sheet history)
- Bea Csatho (domain, ice sheet observation)
- Sophie Nowicki (domain, ice sheet modeling and synthesis)
- Kristin Poinar (domain, ice sheet hydrology)
- Toni Schenk (domain, ice sheet observation)
 Tufts University
- Abani Patra (cyberinfrastructure, Vhub) NCAR
- Bill Lipscomb (domain, ice sheet modeling)

<u>Innovim</u>

- **Erika Simon** (programmer, "NASA" modeling tools) *Tidbit Software*
- Justin Quinn (programmer, viz and web-based modeling (VESL), with:

NASA-JPL

- Eric Larour (cryo head, ISSM)
 NCAR
- Kate Thayer-Calder (programmer, ice sheet models in GCM)