

NASA ICESat-2 Mission Applications

3rd ICESat-2 (Science and) Applications Workshop



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Workshop Goals

- Provide an overview of the ICESat-2 Mission, its current data products and the ICESat-2 Applications program.
- Provide an overview of NASA's Applied Sciences and Earth Science to Action Strategy.
- Provide demonstrations of ICESat-2 data tools.
- Foster collaborations and new ideas for data products and applications.

Meet the Applications Team

Applications Team: *Aimee Neeley, Molly Brown, Tom Neumann, and Helen Fricker*

Applications Lead and Scientist: *Aimee Neeley and Molly Brown*
-Implementation of the Applied Users program and application events
-Communication, outreach for ICESat-2 science product uses.
-Broadening of the user community and accelerating familiarity and use of mission products.

Science Team Lead: *Helen Fricker*
-Liaison between Applications and the Science Team; Provide the most recent information on mission status and products

Mission Leadership: *Tom Neumann and Nathan Kurtz?*
-Provide guidance on Mission Science Applications capabilities

NASA Headquarters Program Applications Lead: *Woody Turner*
-*O*versee mission applications at NASA HQ and provides feedback/guidance on program applications



Workshop structure

Day 1 (June 3 2024; 10:00 - 17:30 EST)

- ICESat-2 Mission Overview and Updates
- Overview of ICESat-2 Data Products and Formats
- An Introduction to the Science Team
- Overviews of the NASA Applied Sciences, ICESat-2 Applications and NASA's Earth Sciences to Action Initiative
- An introduction to measuring impact
- Lightning Talks
- Applied User panel

Day 2 (June 4 2024; 9:00 - 13:45 EST)

- Overview of Inland Water Products
- Lightning Talks
- Thematic Breakouts and Report out
- Adjourn



Workshop Goals

- Provide an overview and updates to the ICESat-2 Mission and its data products.
- Live demonstrations of data tools and resources for accessing ICESat-2 data.
- Build partnerships between current and new applied users as well as data users and end users.
- Foster synergies with between all participants, including science team members, decision makers, applied users, data users, and satellite operators.
- Understand the challenges faced by applied users (e.g., data accessibility, formatting), data users, end users and identify solutions.

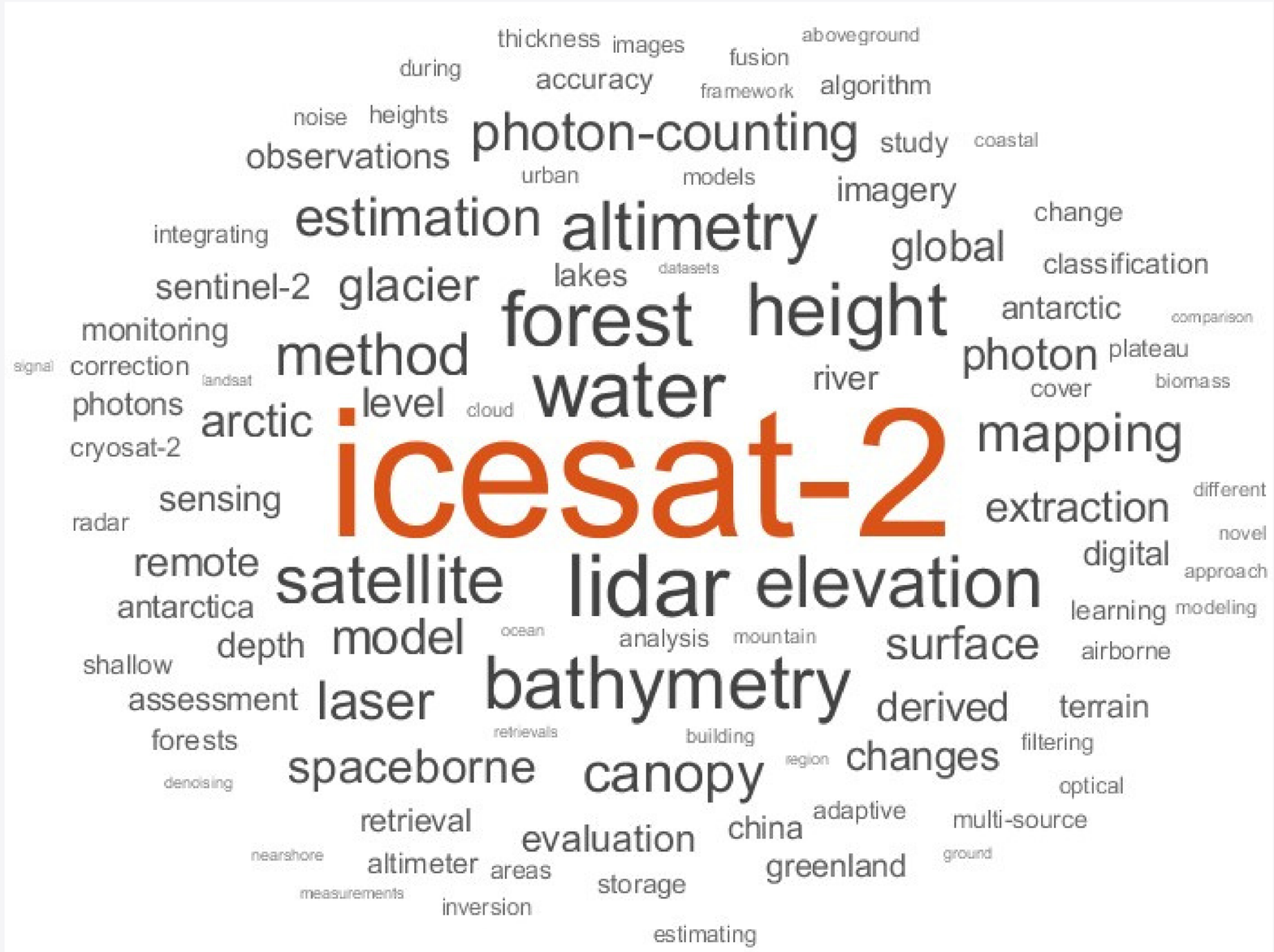


Strategy for a successfull workshop

- Presentations are intended to be interactive discussions - we want to hear from you. Ask questions and provide feedback!
  - All workshop feedback and comments are reported to the mission and responses will be delivered in the workshop report.
- Consider the Applied User program as a way to leverage research and collaborations.
- Initiate new collaborations by connecting with workshop attendees and the Science Team.
- Suggest other communities and applications that will benefit from ICESat-2 products.



Word Cloud from publications (2021-2024; 391 pubs)





PSO Highlights – April 2024

- **Operations overall continued nominally throughout the month, given the hybrid environment.**
- Papers continue coming out: 89 in 2024 so far
- Final data out through 27 December 2023
- Lots of activity around the safe hold event and return to service. All QL product distribution targeted to resume mid-June 2024 (TBD).
- **NSIDC ICESat-2 Metrics through April 30th:**
  - 8,392 total users of 20 available data products (+483*)
  - 49,302,050 science files downloaded (+3,107,749*)
  - ATL03, ATL08 and ATL06 remain the most popular ICESat-2 data products at NSIDC.

**Increase represents 2-month timespan. March metrics not reported.*

Slide from Christine Sadlick IS2 data product manager



Thank you!

