



Update from the NSF Ice Drilling Program (IDP)

Mary Albert IDP Executive Director





NSF Ice Drilling Program Long Range Planning & Drilling For Multiple Fields of Science



IDP Working Groups

- Ice core working group (ICWG)
- Englacial and subglacial science working group (ESAWG)

U.S. Ice Drilling Program LOND RANGE SCIENCE PLAN 2024 2024

Ice Drilling Program Long Range Science Plan 2024-2034

Prepared by the U.S. Ice Drilling Program in collaboration with its Science Advisory Board and with input from the research community



 Past Climate Change

- Ice Dynamics & Glacial History
- Subglacial Geology, Sediments & Ecosystems
- Ice as a Scientific Observatory

Science planning drives IDP drill development & use www.lcedrill.org

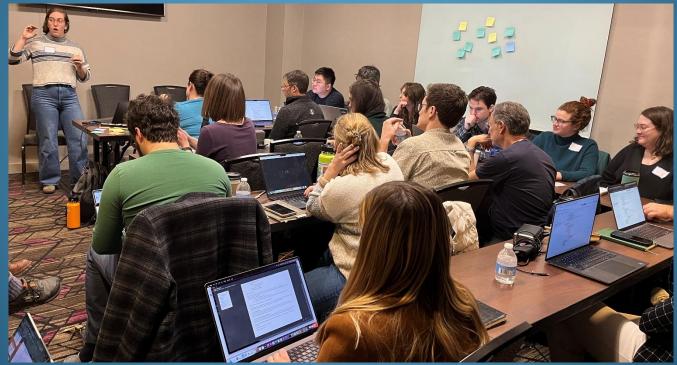


NSF Ice Drilling Program IDP long range planning example



Englacial & Subglacial Access Working Group Science Planning Workshop

December 8, 2024 Alexandria VA



Outcome: white papers on science for the coming decade https://icedrill.org/meetings/esawg-workshop-2024





Agile Sub-Ice Geologic Drill (ASIG) 7.5 m core under 502 m of ice



IDP drilling for GreenDrill 2023



Ice-enabled Winkie Drill 5.8 m core under 50 m of ice



IDP drilling for Greendrill 2024

www.lcedrill.org



NSF Ice Drilling Program Education & Outreach featuring *your* science!



- IDP School of Ice for faculty at minority-serving institutions
- IDP Virtual Field Labs for educators
- Educational resources online

Louise Huffman IDP Education & Outreach



Contact Louise!! Louise.T.Huffman@Dartmouth.edu

www.lcedrill.org and http://icedrill-education.org/



NSF Ice Drilling Program Get involved !



Sign up for our newsletter!



IDP Education and Outreach Resources

Virtual Field Lab

Virtual Field Lings are unique interactive education and outreach products designed for students from late middle school to calego Virtual Field Lings are designed for students to watch with a tescher present joinually or in-personal or independently on their ow promoters. Task Virtual Field Lab takes students along with a climate scientist as they collect and analyze data to assure a different climate question.

School of Ice

The <u>School office</u> provides professional development workshops for faculty from Minorky Serving Institutions, training participants or understand paleodimite evidence derived from ice cores. It also provides participants with the opportunities and training to applie the skills necessary to bring this exciting inquiry into new and existing Earth and environmental science classes on their amposes.

Teaching Resources

he Education and Outneach website hosts <u>free teaching resources</u> on topics of ice core science, ocean cinculation, polar science, he process of science, teaching tools, and with all held labs that offer new participatory reperiences for online learning. The website rounder resources for classrooms or informal science programmet/forts with lack that his used lack dockion-makers of all backgrounds.





 Participate in IDP Working Group workshops!

• Make sure your science is in the IDP Long Range Science Plan!

Get help with outreach for your science!

• Request drilling & EO support for your NSF proposal!

www.lcedrill.org