



Ice Drilling Program Office

Mary Albert







Vision

 To enable scientific discoveries about changes in environment and climate, using evidence from glaciers and ice sheets, to inform environmental policy.

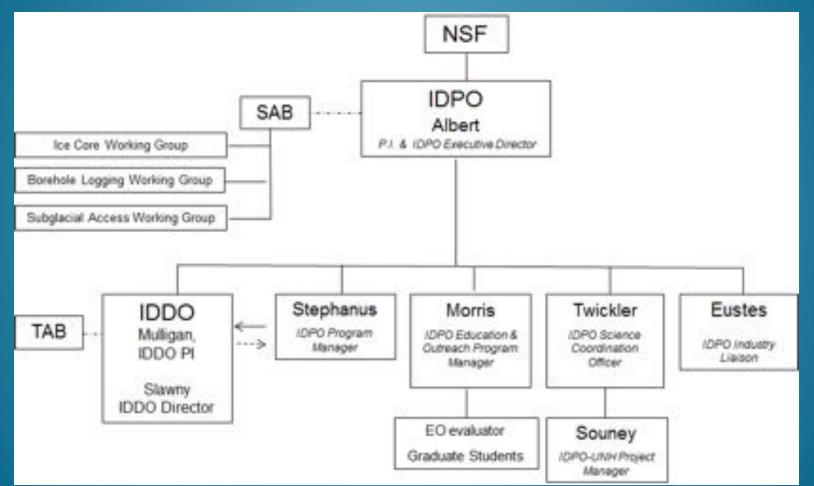
Mission

 To conduct integrated planning for the ice drilling science and technology communities and to provide drilling technology and operational support that will enable the community to advance the frontiers of science.



Ice Drilling Program Office NSF Cooperative Agreement

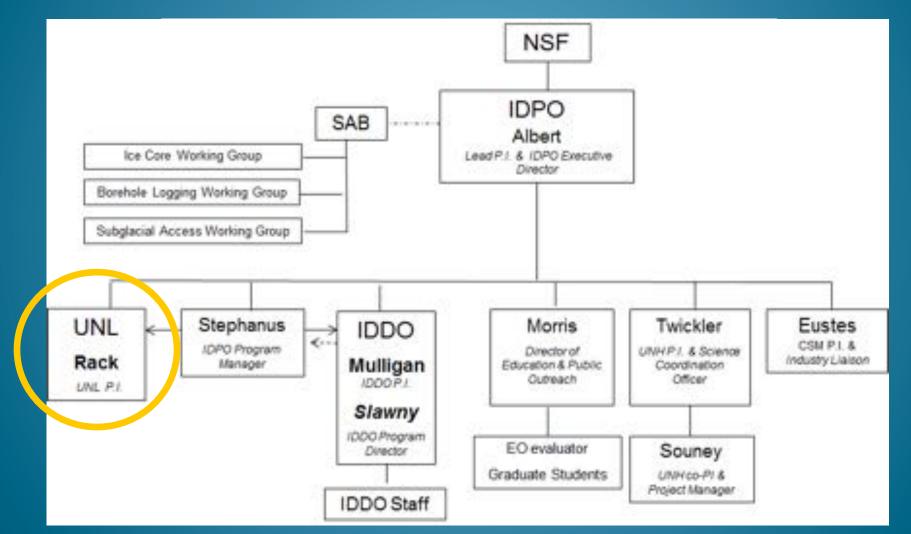






Ice Drilling Program Office Potential UNL subaward



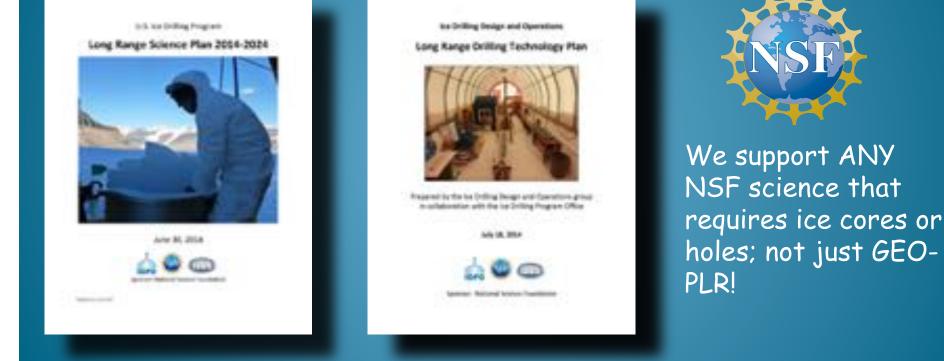




Ice Drilling Program Office Science Advisory Board







Science planning drives drill tech planning, development, and use. www.lcedrill.org



Ice Drilling Program Office LRSP useful for NRC study



Long Range Science Plan 2004-2024





Climate Change

Ice Dynamics and Glacial History

Subglacial Geology, Sediments & Ecosystems

Ice as a Scientific Observatory Development of a Strategic Vision and Implementation Plan for the U.S. Antarctic Program at the National Science Foundation



Ice Drilling Program Office Community involvement in planning





IDPO Town Hall:

Scientific Drilling in the Polar Regions

Participation: IPICS, IDPO, NICL, RAID, WISSARD, NSF



Ice Drilling Program Office Community involvement in planning

IDPO Community Workshop on Subglacial Access - coming soon -

Targeted Outcome: Community identification of next decade of subglacial access projects for IDPO Long Range Science Plan.



7th International Workshop on Ice Drilling Technology







Special volume of Annals of Glaciology is published.

http://www.icedrill.org/7th-international-workshop-on-ice-drilling-technology

Ice Drilling Program Office



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The DPO Long Range Science Plan 2013 identified science goals for ice drilling that spanned a wide range of science targets. Rapid changes in speed of fast—flowing tide-water glaciers, outlet glaciers and ice streams observed over the past decade create urgency to understand their dynamics. Properties of the ice-bed interface exert strong control on the flow of glaciers and ice sheets. Scalable hot water access drils that are portable and capable of drilling to the bed of glaciers and ice sheets in much less than one season are needed to make basic measurements, including temperature, heat flux, and pressure. From virtual discussions organized by DPO in December 2013, and follow-up teleconferences and discussions with the research community and with DDO staff, the following are the science requirements for the drill.

Scientific Requirements

 Produce access holes through ice depths between approximately 50 – 1900 m.

The drill should be modular, with built-in redundancy, so that one of the modules is used for shallowdepths and small diameter holes, and other replicate modules are added for deeper access holes or Science requirements completed: - Agile Sub-Ice Geologic Drill

Science requirements in prep for: - Agile lake ice drill - DISC – Herc Dome / EAIS

Science requirements upcoming: - Backpack/Portable 2" drill - ~900 m coring drill

http://www.icedrill.org/equipment/development.shtml



IDPO-IDDO



Annual Progran Plan



Table of Contents

A. Snapshot of IDPO-IDDO Activities for PY 2015	1
B. Drilling Support to Science Projects	2
C. Development of New Capabilities	6
D. Communication and Website	9
E. Education and Public Outreach	10
F. IDPO – IDDO Organization	11
G. Major Milestones and Completion Dates	15
H. Issues and Concerns	10
I. Budget Overview	18

Appendices 1 IDDO Project Details 22 II. IDPO-IDDO Budget Details 36 III. Equipment Availability 47 IV. Proposed and Funded Summary Table 48



Communications



HOME ABOUT US EQUIPMENT EXPEDITIONS FOR SCIENTISTS NEWS EDUCATION LIBRARY CALENDAR

Requesting Ice Drilling Support for NSF Arctic Research (NSF 14-584) Proposals

** September 9 Deadline **

(Read More)

Sep 9 Deadline: Requesting Ice Drilling Support - NSF Arctic Proposals

MORE .

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News and Announcements 🛛 🔊 RSS Feed

08 September 2014

Summer 2014 /oe Bits Newsletter Now Available

The SUMMER 2014 guarterly update of IDPO and IDDO activities is now available.

27 August 2014

Draft report on GEO Priorities and Frontiers, 2015-2020; An Invitation for Public Comment

Requesting Field Support

If you are preparing a proposal that includes any kind of support from the IDPO-IDDO, you must contact IDPO (<u>IceDrill@Dartmouth.edu</u>) at least six weeks before you submit your proposal to obtain a Letter of Support and a Scope of Work/Cost Estimate, both of which must be included in your proposal. [MORE_INFORMATION]

For Scientists

Information and resources for the ice drilling science and technology communities.

- Field Support for NSF Proposals
- Field Support for non-NSF Proposals
- Field Project Support Requirements Form
- End-of-Season Project Support Eval Form
- Long Range Science Plan

www.lcedrill.org

ICE BITS NEWSLETTER

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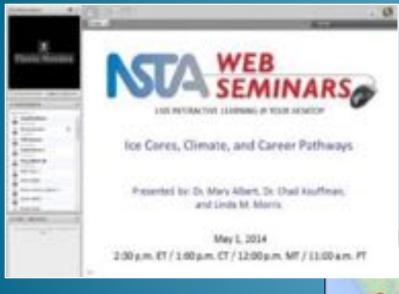
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Education & Outreach







Home > Webcasts > Join the Conversation

Webcast: Join the Climate Conversation







climate-expeditions.org



Key dates for the Long Range Science Plan



- Updated draft#1 LRSP on the Icedrill site by 30 April.
- IDPO invites community comment/input on 1 May (community input deadline 16 May).
- Mary sends draft#2 to SAB for comment & approval by 20 May.
- SAB gives Mary ok on content by 27 May.
- Mary sends final, formatted LRSP to NSF by June 30.