



U.S. National Science Foundation Ice Core Facility

Your community resource

Facility update

2025





National Science Foundation
OPERATED BY U.S. GEOLOGICAL SURVEY

- ❖ Facility for storing, curating, and studying meteoric ice cores.
- ❖ Located within the Denver Federal Center, Lakewood, CO.
- ❖ Provides scientists with the capability to conduct examinations and measurements on ice cores, and it preserves the integrity of these ice cores in a long-term repository for future investigations.
- ❖ Over 30,000 meters of ice core collected from various locations in Antarctica, Greenland, and North America.
- ❖ Funded by the National Science Foundation (NSF) Office of Polar Programs and operated by the U.S. Geological Survey (USGS).
- ❖ Scientific management provided by the University of New Hampshire.

OUR PEOPLE

National Science Foundation, NSF

- Kelly Brunt, Program Director, ANT Glaciology & Southern Ocean Science

NSF-Ice Core Facility (NSF-ICF), USGS

- Lindsay Powers, Technical Director
- *Curt La Bombard, Curator
- *Richard Nunn, Assistant Curator
- *Theo Carr, Science Technician

Science Management Office (SMO), UNH

- Joe Souney, SMO Director
- Mark Twickler

*Full time NSF-ICF employee




$$1/8'' = 1'-0''$$














NSF-ICF

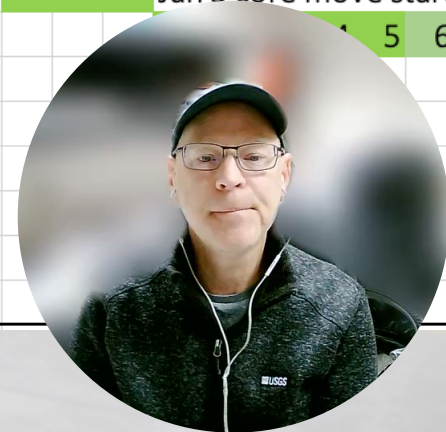
New Facility timelines

March 2025

Ice Core move planned January, February and March 2026

		2025 Weekly																																2026 Monthly																													
		M					A					M					J					J					A					S					O					N					D																
ACTIVITY	TASK	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	J	F	M	A	M	J	J	A	S										
SCIENCE	2025/26 Incoming Ice Cores																																																														
	Planned sampling and core processing																																																														
	Limited sampling,(not scheduled)																																																														
	No sampling or shipping																																																														
CONSTRUCTION AND ICF OPERATIONAL DETAILS	New Facility Construction																																																														
	New Freezer Testing (6 Months)																																																														
	Move Ice Cores																																																														
	Run Old freezer past move																																																														
	Cleaning and sequence prep																																																														
	Move to new office																																																														
	Move tools and storage items																																																														
	Exam room move																																																														
	Clean room, HSI, ECM move																																																														
	Open for business in new facility																																																														







New facility highlights

- ~20% more storage capacity in the same amount of space as the old freezer
- Reduction of square footage from old facility saving long term rental cost for NSF
- Rectangular exam room to allow for various CPL configurations
- Dedicated office, collaboration, conference room and changing room
- New back up generator and multiple HVAC upgrades
- Transition from R-22 to CO2 as a refrigerant placing on cutting edge of technology

