

MOUNT WASHINGTON OBSERVATORY



ANNUAL REPORT

FISCAL YEAR 2023





2022 Weather in Review

Average temperature: 29.3 °F

Warmest temperature: 65 °F on
June 26, Aug. 4 & 6

Coldest temperature: -31 °F on Jan. 11

Total liquid precipitation: 94.00 in.

Total snowfall: 236.7 in.

135 days with rain

149 days with snow

Average wind speed: 36.4 mph

Highest wind gust: 150 mph on Dec. 23

157 days with gusts \geq 73 mph

45 days with gusts \geq 100 mph

16 days noted as clear or mostly clear

54 partly sunny days

295 days noted as mostly cloudy, cloudy,
or obscured (fog)

Dear Members,

Thank you. In no small part due to your support this year, we were able to begin laying the foundation for the next 90 years. We also had an incredibly busy year.

Drew joined us as our new Executive Director in September, replacing Donna Dunn after her three seminal years of leadership. Donna accomplished so much amidst a pandemic, helping to put our institution on firm financial footing while also improving the organization's governance practices. We miss Donna greatly but are lucky to count her among our supporters and rely on her expertise as an advisor in all that we do.

Looking back at the past year, we have been fortunate to benefit from the efforts of our talented staff and Board of Trustees. In the fall, our trustees exceeded their own matching gift goal for our Year-End Campaign, galvanizing supporters to surpass our stretch goal for this all-important source of operating funds. This past winter, we reinvigorated our Corporate Sponsorship Campaign to bring new resources and ideas to the Observatory. Stay tuned for exciting news on this front, including a new line of extreme weather gear being created with insights from our observers.

As an organization that relies on private donations for more than half of our budget, all of this financial support means that we are in a good position to tackle what lies ahead. Here are a few highlights of plans made in 2022 that are now bearing fruit.

On Scientific Research

Our scientific experts began planning in 2022 to make our facilities more accessible for undergraduate/graduate students and faculty researchers. This work includes:

- Better support for our summit internship program that enables us to recruit internationally while also forming a Diversity Internship Program with Howard University and Jackson State University.
- The establishment of research rates for our facilities, staff, and data that give our university partners clear guidance on how to include us in future research projects. This effort makes us the partner of choice for universities working in mountain meteorology, extreme weather, climate, forecasting, and the human relationship to climate and weather.
- Continued planning for Undergraduate Research Adventures that will provide universities in our region with educational opportunities for their students, including summit field trips and staff partners for real-world student research projects.

On Education

We began planning for school-based programs that will make the Observatory the leading resource for climate and weather education.

- Already this spring, we've launched six pilot field trips to Mount Washington's summit for middle school students in our region. Our aim is to make this internationally unique environment accessible to all children, with these trips offered at no cost for schools starting in fall 2023.
- Our plans call for a full menu of school day, afterschool, and virtual programs along with curricula resources and professional development for teachers.
- We are identifying opportunities for our educational staff to contribute to summertime programs at camps and with business partners at their stores.
- We are considering how to make *Science in the Mountains* a true

lecture series, with in-person events and dynamic speakers.

On Recreation and Safety

Our summit crew takes hourly observations 24 hours per day, 365 days per year and produces our twice-daily Higher Summits Forecast broadcast all over the White Mountains region. Our planning in 2022 calls for augmenting this work.

- We have been building partnerships with the United States Forest Service (USFS), New Hampshire Department of Homeland Security, Appalachian Mountain Club (AMC), and other public and private partners to carry these forecasts further to help recreationists stay safe.
- We posted more than 150 yellow warning signs at trailheads leading to the higher summits in the White Mountain National Forest so hikers can receive our forecast via text message before they set foot on a trail.
- We're working to share our expertise in weather guide decision-making and accident prevention strategies with partners in local, state, and federal government.

In November, our staff and trustees met to update our Strategic Plan—begun under Donna's leadership—to reflect these new developments, with five strategic priorities now detailed: Science and Research, Education, Outreach, Finance, and Governance.

We wish we had enough space to tell you more about all we have planned, from making our weather station more accessible to the public in coming years to expanding our media partnerships that carry our forecasts to metro audiences such as Boston, Portland, Portsmouth, and Burlington—all places where visitors would benefit from knowing the weather before they visit us here in the mountains.

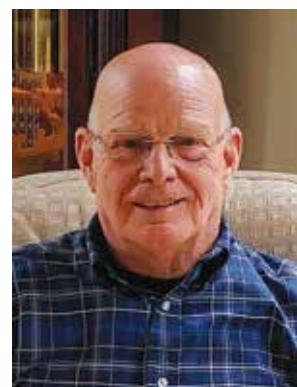
What we can tell you is that we've been working to strengthen key partnerships with organizations such as New Hampshire State Parks, the Mt. Washington Auto Road, the Mount Washington Cog Railway, USFS, and AMC. Without their close collaboration, all that we do would not be possible. We are extremely thankful for their support.

And we are extremely thankful to each of you reading these words. 2022 marked the beginning of a busy and fruitful time here at the Observatory. We have an incredibly talented team and big plans underway. We look forward to each of you being part of these plans. And we hope you will reach out to us with your thoughts, advice, support, and help.

Yours,



Drew Bush
Executive Director



Bruce Soper
Incoming Chair, Board of Trustees

You're keeping us at the leading edge of extreme weather science and climate research



Weather observers Alexis George, Francis Tarasiewicz, and Karl Philippoff capture a historic moment at dusk after **forecasting and observing a generational storm** on Feb. 3 and 4. They endured extreme conditions on Mount Washington's summit as an Arctic air mass plunged temperatures to at or below -45° F for 13 hours.

During the **powerful Arctic front** in early February, our observers measured a -47 °F air temperature at about 4:00 a.m., **matching the Observatory's all-time record low** previously set on Jan. 28, 1934.

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Staff and interns presented **posters at the AMS Annual Meeting** and delivered a presentation on MWOBS' development of a custom pitot static tube anemometer for deployment on Mount Everest.

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Our staff **continued a legacy of outreach** during February's extreme weather event as regional, national, and international media called to report on **our continuous measurements** in the face of -109 °F wind chills.

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Our new contract with University of Delaware climatologists involves **further refining our data science practices** to continuously improve research efficiency.

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We published a new technical overview of the Mount Washington Regional Mesonet in the American Meteorological Society's (AMS) 'Journal of Atmospheric and Oceanic Technology,' Volume 40: Issue 4.

• • • • •
Our research into **near-surface lapse rates** (in writing phase with an extended contract) and investigation of **rain-on-snow trends** are the third and fourth projects funded by Synoptic Data.

MWOBS is hard at work maintaining the Mount Washington Regional Mesonet, with **plans to expand our network of 17 automated stations** in and around the White Mountains that continuously collect weather data. We have applied for several funding opportunities to modernize and expand the mesonet infrastructure. The project focus is to enable accurate, real-time forecasting to help conservation, tourism, and recreation organizations in New Hampshire's North Country plan, develop, and manage natural resource-based tourism while also facilitating their business and workforce development. Expanding our mesonet will enhance real-time data on the weather processes that impact people and landscapes.



YOUR IMPACT: DATA & FORECASTING IN THE NORTH COUNTRY

Backcountry skiers and hikers arrive at Hermit Lake Shelter on the Tuckerman Ravine Trail, where MWOBS has one of 17 automated weather stations continuously collecting and transmitting weather data for research, recreation, and real-time decision making.

“The Observatory probably has more experience than anybody around the world at measuring the weather in an extreme location.”

— Dr. Baker Perry,
National Geographic Explorer

Over the course of the year, we reported 8,760 hourly observations, published 1,460 specialized forecasts, and performed all data quality checks (2/day, 1/week, and 1/month).

We adopted a new **Extreme Weather Events Plan** to guide communication and bolster staff support during weather events that can disrupt operations and attract heightened media attention.

Director of Weather Operations Jay Broccolo digs out an automated weather station along the Mt. Washington Auto Road in March.





Building partnerships that connect communities with the mountain and its value to science

MWOBS brought together several of our valued summit partners (and their families) for an overnight at our weather station in April. The Mount Washington Auto Road, Mount Washington Cog Railway, Mount Washington State Park, and Observatory were all preparing for a busy summit season ahead. Standing in front of the spring snow wall on the Auto Road are Ryan Presby (Cog Railway), Donabeth Murray, Camden Reichert and his friend Emily, Danielle Reichert, Tobey Reichert (Auto Road), Keith Garrett and Jon Powers (Observatory), Axel (cousin of the Observatory's Jay Broccolo), and Drew Bush (Observatory).

From May to October 2022, we provided **200+ weather station tours** for over 750 members and visitors, including open houses during Seek the Peak and our 90th anniversary on Founders Day, Oct. 15.

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Educational trips to the summit returned in winter 2022. Our team hosted **six Overnight EduTrips** for a total of 54 participants.

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Our education staff presented more than **40 virtual programs** to K-16 students and libraries, in addition to our monthly *Science in the Mountains* virtual program.

Eleven NH State Representatives visited the summit in August for a presentation and weather station tour, followed in September by tours with **NH Gov. Chris Sununu and the Executive Council.**

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A regional **climate communications working group** that includes MWOBS, Hubbard Brook Research Foundation, and the AMC developed a new “Climate Change in the White Mountains” exhibit showing long-term data trends.

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More than 40 volunteers joined our newly formed docent program, working as ambassadors in our summit museum. Our winter volunteer program also resumed after a pandemic pause, with new and long-term volunteers working week-long shifts at our weather station.

Seven media outlets visited the summit last fall/winter, producing their own video and print stories to feature MWOBS’ work. This included **national coverage by CBS Mornings.**

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Trustees and staff wrote a **Diversity, Equity, and Inclusion (DEI) statement** with guiding principles and action items, making DEI a strategic MWOBS priority. Formal adoption at the Annual Meeting is anticipated.

Winter 2022-23 saw the return of Arctic Wednesdays, our professional development program for teachers. MWOBS hosted six trips with 10 K-12 teachers from New Hampshire and Massachusetts, who joined summit staff for Wednesday shift change days throughout the winter months. When applying, teachers share plans for integrating the opportunity into their classroom, including the use of Observatory resources with their students. They connect live with their classrooms from the summit to build excitement around learning weather and climate topics.

YOUR IMPACT: INSPIRING TEACHERS AND STUDENTS



Laconia Middle School teachers Jessica Rominger and Wesley Bates pause for a moment at Cragway Turn on their way to the summit of Mount Washington for an Arctic Wednesday trip.

“Thank you again to the staff, as this is an experience that will last me a lifetime.”

— Karen Wesley, Teacher at the Center School (Stow, MA) & Arctic Wednesday participant

Director of Weather Operations Jay Broccolo speaks to a crowd during a press conference hosted by Gov. Chris Sununu on Feb. 1 in advance of the extreme cold.



Your support keeps the mission moving forward



Thanks to **YOU**, our work to inform and provide insight endures. You help us overcome extremes and push boundaries to ask the unanswered questions, at a place unlike any other, where the weather meets Mount Washington.

Our current donor retention rate is 68%
(separate from our Seek the Peak fundraiser).

In the U.S., the average rate for nonprofits is 43-46%.

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Our 22nd annual Seek the Peak raised **\$173,944** thanks to **247** participants, event sponsors, Expo visitors, and raffle ticket purchases. This event connects our highly engaged hiking community of all ability levels with the White Mountains and our work supporting safe backcountry adventure.

During our 2022 Year-End Campaign in November and December, **1,524** donors gave a total of **\$251,275**.

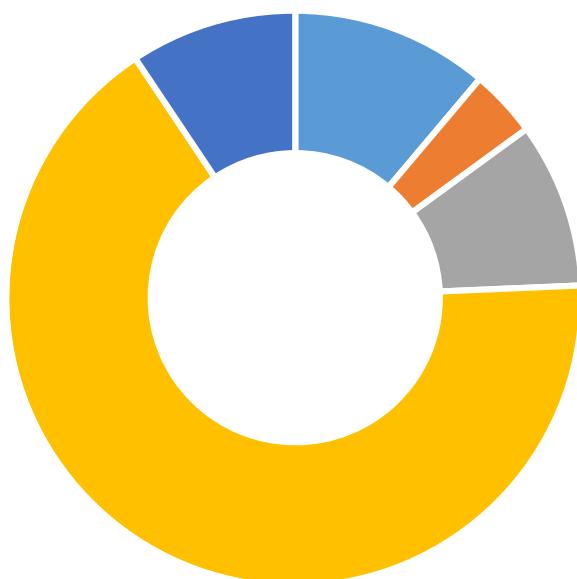
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Our reinvigorated Corporate Sponsorship Program and renewed summit partner agreements have raised critical support for our summit operations, research, professional development for teachers, distance learning, and weather services.

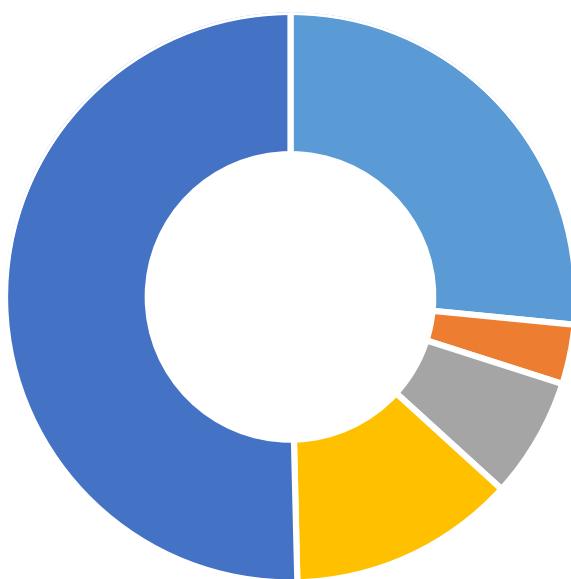
Fiscal Year 2023 Reporting

April 2022 through March 2023

Revenue



Expenses



Transformational Bequest to Fund New Weather and Climate School Programs Across New Hampshire



Eighth-grade students from Whitefield Elementary School learn about measuring precipitation on Mount Washington on May 31 with MWOBS Director of Education Brian Fitzgerald.

New Hampshire's school children will be the beneficiaries of a generous \$4 million bequest from the Sheldon Family Estate to MWOBS. These funds will be used to offer school educators enhanced support in the teaching of weather and climate science that meets the Next Generation Science Standards.

"We're excited to offer schools across our region a full suite of programming options," Brian Fitzgerald, MWOBS Director of Education, said.

Monies from the bequest will be used to offer a new menu of options that include school day, after-school, virtual, and field trip programs that teach students the technical science, technology, engineering, and math (STEM) skills found in weather and climate science. In the coming months, MWOBS will offer teachers further opportunities such as curricula, professional development, and lesson planning. Already, MWOBS has added two new staff to support this effort.

MWOBS began piloting educational field trips to the summit of Mount Washington in partnership with the Mount Washington Cog Railway Company this spring with middle school students from three Coos County schools: Whitefield Elementary School, Stratford Public School, and Groveton High School. These trips were made possible at no cost to each school thanks to a generous Empowering Coos Youth Program Grant from the New Hampshire Charitable Foundation's Neil and Louise Tillotson Fund. A student leadership council made up of students from each school provided MWOBS staff with guidance on topics and activities that are of highest interest to their peers.

"As stewards of Mount Washington State Park, we congratulate MWOBS on this impactful bequest and are excited to welcome more students to the summit of Mount Washington in partnership with the Observatory and the Cog Railway Company," Sarah Stewart, Commissioner of the Department of Natural and Cultural Resources, said.

"This type of investment in education for regional students aligns perfectly with the Division of Parks and Recreation's mission to provide outstanding educational and inspirational experiences through the cooperative stewardship of the state's natural and cultural resources."

More than 76 organizations across the U.S. will benefit from shares of the Sheldon Family Estate, with a focus on small- and mid-sized environmentally focused nonprofits and a concentration in New England.

"We cannot thank the Sheldon family enough for helping us meet our goal of increasing access to Mount Washington for all students in New Hampshire," Drew Bush, MWOBS Executive Director, said. "Maintaining a weather station on New England's highest peak holds truly high costs, and more than 60 percent of our operating budget comes from private donors. We've operated on a shoestring for decades. And even despite this amazing gift, we still could not do what we do without our members' support."

Remaining monies from the bequest will be used to pay down a portion of the substantial debt held by MWOBS on its administrative office building in North Conway as well as be invested in the organization's endowment in anticipation of future expenses.

Thank You, Members

\$10,000+

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This list does not include restricted or anonymous donations, bequests, in-kind gifts, Seek the Peak donations, matching gifts, employer matches, gift memberships, or the number of hours donated by volunteers.

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Lynn-Eve Davis	Rufus Faggons	Shirley Gravink	James Humphrey	Jen Kravitz
Susan Dawson	Kathleen Falls	Nicholas Gray	John Humphreys	Richie Kremer
Brian D Day-Lewis	Andrew J. Fay	Joe Gray	Bernadette Hunsicker	Jean & Richard Krohn
Patricia Day-Lollini & Lance Lollini	Robert Fay	Venona Greaff	Peirce & Jill Hunter	James Kuhn
Charles A. de Geofroy	Merline Feero	Joseph C. Greco Jr.	Dr. John C. Hurd	Mark & Rachel Kukes Schwartz
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William deCamp Jr. Fund	Lisa & Milton Feldberg	Laura Greene	Bruce & Jackie Hutchinson	Ingrid Kvam
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Angelo A. Decrisantis	Greg D. Ferrari	Joseph Greene	Thomas J. Hynes Jr.	Greg Labrum
Joseph & Judith Dedinsky	Angela Festa & Dean Cerutti	Jeff & Zoe Greenwood	Jim E. Irvin	Robert LaChance
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Kevin DeFeo	Julianne & James Field	Jane MacAskill Grinvis	Beth Isola	John P. Lamanna
Patrick DeFur	Stephen A. Filipek	Elizabeth Guan	Douglas & Melissa Jaarsma	Barry M. Lamont, M.D.
Tom DeFusco	Thomas C Fischer	Dr. Brian H. Guck	Andrea Jackman	Craig A. Landon
Robert & Jan DeLaney	Eric Fisher	Sheila Guinther	Paul A. Jackson	Stefan Lange
Ryan DeLena	Peter & Nancy Fisk	Sandra & Jeff Gura	Richard S. & Susan M. Jackson	Gail Langer
Deb Della Selva & Mike Griggs	Drew Fitch	Leif & Amy Gustavson	Andrew Jacobs	Elliot & Eveline Lapan
Michael Dell'Orto & Jacqueline Kahle	Brian Fitzgerald	Adolf & Lisa Haffenreffer	Jonathan & Ellen Jacobs	Milton Lapon
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Richard Des Roches	Phyllis Forbes	Maurice Hall	Linda Jensen	Ronald G. Lawler
Robert J. Desrosiers	Jim Fornari & Amy Gillenson	Balanced Architecture	Kristian & Nancy Jensen	Paul R. Lawless
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	James Foushee	Brian & Betsy Fowler	Russ Johnson	

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Mark & Theresa LePage	Michael A. Mattock	Michael Murphy	Russell M. Pearce	Marsha Rich
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Alan Levin	Robert Mayshock	Susan Mutter	Stephen G Pernaw	Richard J Ridolfi
JoAnne Levy	Leo & MaryAnn McCarthy	Timothy Louis Myers	Richard & Janet Pernerewski	Lawrence Ries
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Cim R. & Nancy A. L'Heureux	John & Dorice McCullough	Susan & Robert Natalini	Finley H. Perry Jr.	Scott Ritz
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Jeff Line	Carolyn & Skip McKean	John Nelson	Jean Picard	Thomas D. Robison
Roger & Madeline Ling	Kenneth & Linda McKenzie	Carl Nelson	Laura & Doug Pickett	Dianne Romer
Steven Lingenheld	John McKeon	William Nesheim	Bob Pickett	Robert Roriston
Brigid Liska	Alan McLane	Ed & Sindee Nevin	Alan & Carol Pierce	Jeremy Rosenberg
Chris Little	Bruce & Deborah McLaughlin	Brian Newman	Kathleen Pierce	Suzanne Rosencrans
James H Littrell	Kevin McMaster	Chester Nibby	Piermont Volunteer Firefighters	Suzanne Rosenthal
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Patrick & Carol Luddy	Scott A. Meiklejohn	John Novak & Sue Ann Raring	Michael Pommeranz	William Ruth
John E. Luebering	John Mercovich	Peggy Novak	Daniel & Herricka Poor	Deborah & Peter Rutigliano
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Gregory Lynch	Kristen Mihalcik	Bill O'Connell	Kenneth E. Powell	Steven M. Saad
Sarah Lynch	Linda Mikula	William R. Ofsiany	Diane Pratte	Michael & Sharon Sabia
Russell Lyon	Clinton Frederick Miller	Dennis Okon	Paul & Diana Praus	Jason Sager
Catharine Mabie	Jeffrey Miller & Carol MacKinnon	Sharon O'Leary	Emily Preston	Jim Sakelakos
Edward MacColl	James Boyd Miller	Marnie Olena	David Priester	Paul A. Sanborn
Darin MacFarlane	Ann Mills & John Coffin	Thomas O'Malley	Monique Priestley	Emory Sanders
Ann C MacFate	Jeff & Dale Milne	Edwin O'Malley	Joseph Prior	Jeff S. Sargent
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Callie Mack	Tom & Randi Mitchell	Sharon ONeill	Thomas W. Pullum	Jeffrey & Deborah Sauer
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John MacKenzie	Joseph & Janet Mooney	Kristina Orio	John Putnam	John L. Saunders
Caleigh MacPherson	Linda Moore	Christopher Osgood	Lawrence Quigley	Curtis & Elizabeth Sauter
Krista Magnuson	Timothy Eugene Moore	Melissa Ossanna	Connor Quigley	Cathy Savery
Allison & Tom Maier	Stephen & Amantha Moore	Audrey Osterlitz	Brae & Elizabeth Rafferty	David & Carla Sayles
Dennis Maiorino & Socorro	Elissa Moore	Paul OToole	William Ralston & Joan Bleikamp	Joan Scanlon
Nuno	Richard Morelli & Pamela	Robert Ouellet	Ken & Jane Rancourt	Jacqueline Scanlon
Joseph Malloy	Stephani	William & Erica Ozanne	Peter E. Randall	Drew & Melanie Schaffran
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Jim Manhart	Bret Morris	Priscilla Page	Ellen Rawlings	Jennifer & Mark Schiffman
Yvonne Manton	Mitchell Morris	Bradford & Jennifer Paige	Kenneth & Anne Raynor	Jeffrey I. Schiller & Karen E.
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		Garrett Palm	Pamela Reddoch	Sharon Schilling
		Barbara Palm	David Redman	Acmena Schmid
		Wendy Palmquist	Gary & Donna Reed	Peter Schmidt
		Andrew Papalegis	William & Teresa Reed	Bill & Betty Schneider
		Peter Pappas	Jeffrey & Jennifer Reed	Ernst Schori
		Mr. & Mrs. Mark Parenti	Donald Reichler	Scott & Rita Schrecongost
		Jeffrey Paris	Caroline Reinks	Eric Schulman
		Greg G Paris	Jon Remley	Frank Schultz
		Eric Parker	Nicole Renaud	Dave Schumacher



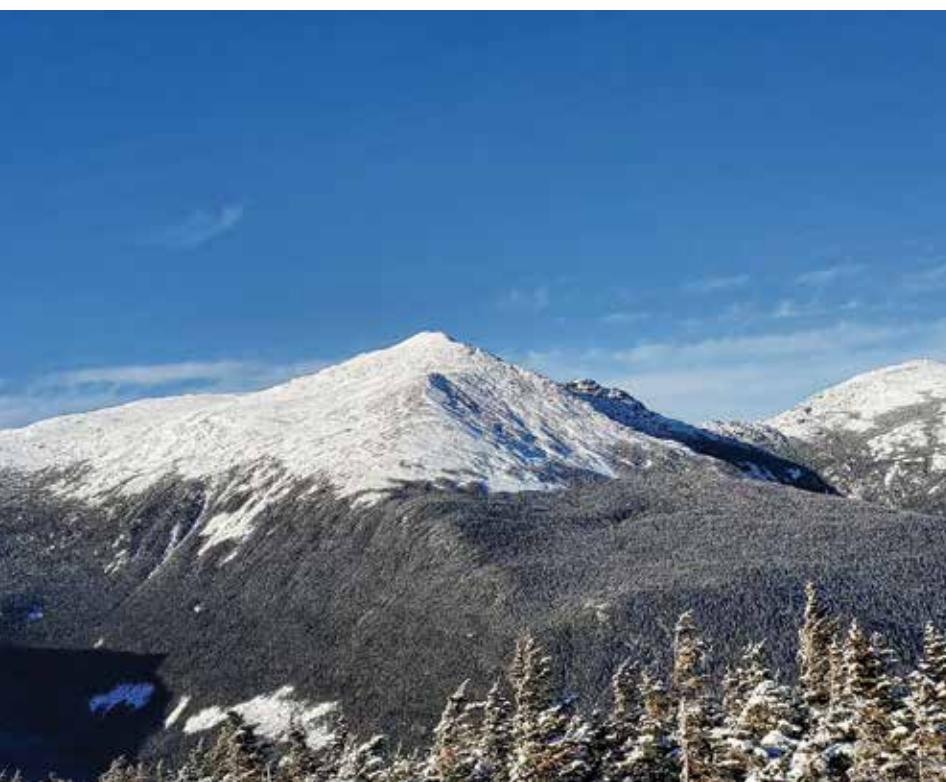
2ND ANNIVERSARY FOR NIMBUS

Our adorable and mischievous resident summit cat NIMBUS celebrated his Gotcha Day on April 14, 2023. He provides cozy companionship to our weather observers, continuing a long tradition of resident mousers who have lived at our mountaintop weather station since its inception back in 1932. We celebrated his second anniversary on the “meowtain” with a cake and a few extra treats for Nimbus after his supper.

Robert & Florence Ann Schumann	John Sweeney	Natalie Westerman	Roger Anctil	John & Carol Bergeron
Ian & Shelagh Schylling	John E. Swenson	James Weston	Ms. Karin Anderson & Family	Priscilla Bergeron
Mr. Donald J. & Anna Scoma	James Swoope	Jennifer Whaley	Chris Anderson	Richard & Priscille Bergeron
Kevin Scully	Rebecca Sykes & Mary Cove	Stephen & Nova Wheeler	Brian Anderson	Ken & Grace Berglund
Elizabeth Seabury	Aaron & Karen Sylvia	Sarah Wheeler & Paul King	Leslie Anderson-Adams & David Adams	Ronald & Rosanne Bergman
Rebecca Secret	Imre Szauter	Michael Wheeler	Stephanie Andrews	Suzanne Berman
Dan Seely	John & Bessie Szum	Albert W Wheeler	Michael Andruschek	Nancy Berman
Ira & Ann Seskin	Margaret W. Taft	Lionel & Debra Whiston	Stephen Andrzejewski	James & Laurie Bernotas
Mark Seymour	Nancy W Taft	Kenneth N White	David Angell	Daniel Bernstein
Jeffrey Sharat & Constance Carrino	Charles R. Tal	John William White Jr.	Jean Angell	Jan & Raymond Berthiaume
Thomas & Elizabeth Shepherd	David K Talbot	Joel & Jean White	Eric & Kathleen Appeloff	Joanne Bickford
Bruce Dale Shepley	Nicole Tallman	Theresa Whiteley	Shoshana Applebaum	Rob Biddiscombe
Dr. Susan S. Sheridan	Alexander Tarberry	White Mountain Amateur Radio Club	Adam Jared Apt	Francis S. Billak
Daniel Sherman	Karla Tate	Robert Whittaker	Douglas & Linda Archer	Jesse Billingham
John & Gail Sherry	Mark W. Tatham	Grace Whouley	Rob Arey	Jeffrey B Binckes
Jonathan Sherwood	Joe Teixeira	David Whyte	Tom Armstrong Jr.	Amy Binette
Richard & Liz Shiers	Linda Terry	Sanford R Wilbur	Richard Arnista	Todd Binger
Peter Shipman	Douglass Teschner	John Wiley	Christopher Arnold	Heather Birch
Clinton Shurtliff	Mildred Thayer	Robert & Cathy Williams	Aidan Arnold	Sue & Sandy Birnholtz
Katherine Siarto	Chris & Wendy Thayer	Frank G. Williams III	Joanne Aronovitz	Noah Bishop
Susan & Jeff Siegel	David Stanley Thayer	Robert Owen Williams	Brian Arruda	Richard Bissell
Amy Siener	Charlie Thomas	Bailey S. & Anneliese Williams	Mark Asaro	Elizabeth Black & Catherine Menard
Norman Silverman	Nancy Thomas & Dana Lawrence	Kyle Wilson	Rich Atkins	Allison Black
Tyler Silverman	Mike & Nancy Thornton	Patrick & Michelle Wilson	Scott & Deborah Aubrey	Burt Blackburn
Bree Simmons	Thrivent Financial	James Wilson	Robert Austin	Dan Blackford
Charles Simpson	Martha Thyng	Marcia & George Wines	Joseph Aveni	Richard Blackley
Bradley Simtob	William Tidd	Richard & Dorothy Wingate	Mark Avy	Quentin & Marcia Blaine
William D. Singleton	Bruce & Robin Tiffney	Jeremy Winnick	Judy & Richard Avy	Walter S. Blair III & Debra Blair
Robert Sirgany	Kevin & Deborah Tighe	Ann & Ed Wirtanen	Janice Axelrod	Christopher Blais
Tom Skinner	Walter & Christen Tipert	Virginia Wiswell	Jack & Katherine Aydelott	Ellen Blanchard
Charles Slife	Margaret Tobelman	Deborah Wolney	Dianna P. Babcock	Donald Bliss
Les Smeach	Edward Todd & Charles Matlock	Stephen & Denise Woodcock	Mike Bailey	Linda Bliss
Mr. & Mrs. Christopher W. Smiles	Carolyn K. & Bryant F. Tolles Jr.	Gilbert Woodside III	Ronald N. Bailey	Ilana & Adam Block
Kirk & Anne Smith	Candace Tordonato	David C. Woolman	Bruce Bairstow	Scott & Melissa Blood
Marilyn Smith	Fernando Torti Jr.	Nancy Wotrich	Debbie Baker	Marianne & Rob Bloomberg & Family
Daniel Smith	Lisa Touet	David Wright	Dudley M Baker III	David Blum
Glenn & Angela Smith	Jon Townsend	Christopher & Valerie Wright	Lisa Balch	Dr. Richard S. Boas
Stephen & Elaine Smith	Rachel & Michael Traub	Sharon & Theodore Wroblewski	William Bald & Paula Hiuser	Jeff Bodeur
William Smith & Jennifer Holst-Smith	Robert & Judy Trautwein	Gail & Patrick Wyant	Vidhi Bamzai	James F. Bogue
Elizabeth Snarr	Karen Traversy	Patricia P Wyhinny	Rebecca Bannon	Deborah Bohr
Mark Sobkowicz	Steven A. Troian & Steven J.	Kimberly Wylie	Betty Barba	Shana Bolonik Cohen
Able Ebenezer Brewing Co	Douglass	Steven Yanta	Karen Barker	Jeffrey Bonello
Dr. Faye & W. Donald Soderberg	Lisa A Trottier	Gretchen S Yealy	Andrew Barlow	Gian Bonello
Kenneth C Solano Sr.	Tsai Family	Jeremy Yoskowitz	Susan S. Barnes	Emilie Bonhomme
Jennifer Solms	JP Turek	Peter Young	Joan Barnett	Philip Bonifazi
Philip J Solomon	Chris Turner	Lawrence R. Young	Mr. & Mrs. William S. Barrett	Garret Bonnema
William & Joanne Sommer	William H. Tworek	Rob Zahora	Ned Barrett	The Bornstein Family
Sherrill Sparks	Brandon Paul Tyrrell	John Carl Zawada	Wesley R. Barry	Sue Rose & Bruce Borofsky
Michelle Ann Spaziani	Laurie Uhlman	Kenneth Zielenksi	Sandy Barry	Cathy Borsinger
Maura Spellman	Sue & Eric Unger	Kim Zimmermann	Leslie S Barteaux	Peter Bosco
Jeffrey Spidal	David Unger	Sean Zimolka	Benjamin Bartholomew	Wally Bothner
Scott Sprague	Brad Unger	Kevin Zona	Grace Bartlett	Lauren Boucher
Bill & Beverly Springer	Karen Urbanik	Bob & Marilyn Zwiener	Carol M Bartlett	Eugene Boullain
Greg Spurr III	Christopher D. Van Curan	\$5-\$99	Becky Bartlett	Gregory Boulos
Michael St Hilaire	Kristin Van Dine	Anthony A. Abell	Pete Basiliere	Sarah Bouma
James St. Cyr	Pamela Van Hoven Clark	James Adams	Paul S. Bassett III	James J. Boutilier
Jaclyn St. Louis	Jim & Angella Vanasse	Richard A. Adams	Blanca Bastanzuri	Paulette Bowen
Kelly Stacy	Tracy Varriour	James W. Adams	William & Anne Batchelder	Kate Box
Neal & Lisa Stacy	Tom Vathally	Marilyn Adams	Todd & Jennifer Bausch	Eugene C Box Jr.
Debra Staiger	Jason & Patricia Veaudry	Debra Adkins	Jennifer Bayer	Norma Boyce
Dr. Mary Stampone, Ph.D.	Douglas Verge	Adventure Spirit Rock+Ice+Alpine Experiences	Scott Baytosh	Jeff Boyer & Jolynn Stoy
Jacqueline Stanton	Robert Vermillion	Christopher Agneta	Mildred A. Beach	Larry Boyer
Susan Stearns	Kelly Victor	Hertha Agnew	Thomas Beale & Laura Nash	Devin Boyer
Betsy A. Stefany	William Viner	Susie Aisner	Jenny Beatty & Jonathan Weiner	Edward Boyle
Harvey M Stephens	J. R. Timothy Vinson	Evelyn Aissa	Jared Beausoleil	Jan Brabant
Susan & Thomas Stepp	Preetinder Virk	Alyssa Akhtar	Nancy Beausoleil	Steve Braciak
Jeremy Sternberg	Mr. and Mrs. Christopher F. Voss	Shiraz Akhtar	Patricia Ann Beck	Adam Brainard
Jean Stevens	Vladimir Vudler	Waits River Valley School	Hali Beckman	Daniel Bramer
Teresa Stewart & David Bouchard	Scott Wagstaff & Doris Manville-Wagstaff	Rich & Kathy Walker	Chad Beede	Sara Brass
Alan Stockdale & Laura Schneider	James & Elizabeth Wavle	Russ Walter	Paul Begley	Luke & Patricia Brassard
Christopher & Shannon Stockton	Dr. Kathleen C. Weathers	Tim Warr	Stephen Beitel	Stephanie Brenton
Kenneth & Maggie Stockwell	Tracy Weeks	Helen & Jim Wasco	Suzanne Belanger	Gail Breslow
Malcolm & Carol Stone	Bernard Weichsel	James Alexander	Christopher Bellis	Peter Brewitt
Andy A. Stone	Jeffrey & Lisa Weil	Gary Allred	Toby Bello	Hanley Britte
Ted Stone	Eric Weinrieb & Rachel Hopkins	Gary Alicandro	Andrew Bellows	Shelly Britton
Dr. Robert K. Story Jr.	Fran & Joe Weisse	Derek Allard	Christina Belsky	Anthony & Carol Broccoli
Scott Straw	Lynn & Dave Welbourn	James C. Allard	Rev. James F. Benedetto	Carol & Stewart Brock
Kent Strobel	Jane E.B. Welch	Charles Allison	Brian & Valerie Benedict	Lisa Bronstein
Margaret E. Stumb	Richard Wengenroth	Gary Allred	Robert Benincasa	Robinson B. Brown
Lori Summa	Eric Werme	Lucia Almeida	John Bennett	Bill Brown
Claude Sutherland		Frank E Alsheimer	Harrison B. Bennett	Dave Brown
Carol Swanson		Robin Amber	Penny & Scott Bennington	Michael Brown
		Theodore & Andrea Ambros	Ross Alan Benthen	Susan & Michael Brown
		Alan Amidon	William & Barbara Bentley	
		William & Debbie Anctil	Mercedes Berger	

Leslie Brown	Judy Chaves & Craig Heindel	Sara Cuthbertson	Michael Drury	Patricia Flanagan
Alaina Brown	JoAnn Cherry	Lloyd Cuttler	John Dubiansky	Patricia Fleck
David & Patricia Brown	Erik Chou	Roger J. Cyr Jr.	William Dudley	Ronald Fleshman
Walter F. Brown	Robert Christensen	Philip F. Czachorowski	Michael Dudley	Laura Flight
Chloe Brown	Michele Christian	Steven Dagley	Charli Duffy	Chantelle Flores
Joan Browne	James D. Christmas	Dr. John P. Daley	John Dugas	Jose Flores
Rebecca Browning	Leah Christopher	Janet & Paul Damiano	McBrien A. Dunbar	Gerard & Roberta Flynn
William Bruce	Ryan Ciriello	Joseph Danao II	Richard M. Dunn III	James Fogg
Heather Anne Bruce	Virginia E. Cisenius	Paul Danik	Maureen & Charles Dunne	John M. Foley
Marty Brumback	Dawn M. Clancy	Judy Danna	Robert A. Dunning	Martin Folger
David Brunelle	Janet Clark	David Darby	Mr. & Mrs. Ronald Dupont	Lezlie Foreman
Andrew Bruno	Andrew L. Clark	Dartmouth College	Susan Durkee	Jeff Fort
Kathleen Brusseau	Phil Clark	Dartmouth Club of Detroit	Joe Durney	James Fournier
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Gerard Bula	James Cluke	Mary Lou & Alan Deak	Edward Eason	Patrice Frazer
Dave Bulmer	Susan Coady-Butler & Barry	William Dean	Clariissa Eastham	Timothy Frechette
Larry Bunt	Butler	Elizabeth Dearman	Nancy L Eastham	Jennifer Freedland
Rob Bunting	Linda Cohen	Andrew & Gail DeBoer	Nancy Eastman	Bruce Freeman
Rob Burbank	Lauren Cohen	Rick Decker	Preston Eastman	Prof. Linda M. French
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Debra Calhoun	Prof. Edward M. Cook Jr.	Stephen & Ellen Denno	William Robert Engel	Thomas Gardella
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Thomas Campbell	Rich & Michelle Correll	Linda Dewey	Richard R. Esson	Wayne & Louise Gehman
Jeff Cantlin	Floyd Corson	Lynn Dgetluck	Rick Estes	Jackie Geilfuss
Robyn & Bob Canvasser	Charles Corson	Teresa Diamond	Gisela Estes	Michelle Genovese
Joyce & Dan Cappiello	Alan Cort	Stacy DiCesare	Maryann Evans	Richard George
Michael Capuano	Peter Corti	Mike L Dickerman	Charlie Fabian	Donald George
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Duane & Linda Card	Donna E. Costa	Gyda Dicosola	Edward & Martha Fairfield	Richard Gerber
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Raymond Caron	Meg Cowan	Rich DiSalvo	Gregory W. Fawe	Christopher Gillard
Rena Caron	Peter Cowley	Marjorie Doan	Matthew Fearon	Earl Gillette
Cristen Carpenter	Dennis Craig	Stacy Doctoroff	Arlene L. Feit	Robert Gillette
Michael Carrafielo	Jeffrey Crandall	Diane Doe	Dr. Peter S. Feldman	Edward & Sharyn Gillis
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Andrea Casey	Paul F. Croteau	Judith Dossett	Kathy Finch	David Glidden
Daniel Cassedy	Robert Crowell	Kerry Dougherty	Susan Finley	Dave Glberman
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Dr. Thomas Cerullo	Frances Cummings	Francis Drayton Strayer	Kevin & Donna Fitzgerald	Barry Goldstein
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Bruce Chandler	Dottie Currier	Caz Drozd	Matthew & Maureen Fitzpatrick	Robert Goodhue
Helen Chapell	Katherine Curtis	Barbara Drury	Pamela Flairne	Jean Goodine

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David Goodness	Chris Hallowell & Cynthia Morrison	Jessica Herchenroder	Susan Irish	Darin Katz
Thomas Goodwin	Michael David Ham	Robert W. Herman	Charles Irwin	Robin Kay
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Cabot Creamery Cooperative
Cormack Construction Management
Cotopaxi
Eastern Mountain Sports
Flatbread Company
Garmin International
Good To-Go
Granite Outdoor Alliance
Great Glen Trails Outdoor Center
Honey Stinger
Hyperlite Mountain Gear
Lakeside Security Systems
McLane Middleton Law Firm
Minus33
Mt. Washington Auto Road Co
Mt. Washington Cog Railway
Mt. Washington Radio Group
Northway Bank

Oboz Footwear LLC
Righteous Vices Coffee Roasters
Settlers' Green Outlet Village
Smartwool/ Hawk Sales Group
Tuckerman Brewing Company
Varsity Beverage Co.
White Mountain Endurance
White Mountain Oil & Propane
Zeb Jakub

GRANTS AND RESTRICTED GIFTS
Henney Historical Fund
Institute of Museum and Library Services
Kathy M Bourque
Learning Ecosystem Northeast Project
NASA Space Grant
National Science Foundation ITEST
Neil and Louise Tillotson Fund at the
NH Charitable Foundation
NH Charitable Foundation
Nick Ohnell
Northern Community Investment Corporation
Ohnell Family Foundation



MOUNT WASHINGTON OBSERVATORY

MISSION

Mount Washington Observatory is a private, nonprofit, member-supported institution with a mission to advance understanding of the natural systems that create Earth's weather and climate. It serves this mission by maintaining a weather station on the summit of Mount Washington, performing weather and climate research, conducting innovative science education programs, and interpreting the heritage of the Mount Washington region.

PURPOSE

We exist to gather, disseminate, and analyze daily weather data; to contribute to the critical, long-term weather and climate record essential to scientific understanding of weather and climate in a unique, extreme environment.

Mount Washington Observatory

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