

MOUNT WASHINGTON OBSERVATORY



**90TH
YEAR**

ANNUAL REPORT

FISCAL YEAR 2022



2021 Weather in Review

Average temperature: 29.7 °F

Warmest temperature: 67 °F on Aug. 12 & 13

Coldest temperature: -28 °F on March 2

Total liquid precipitation: 77.41 in.

Total snowfall: 222.5 in.

145 days with rain

159 days with snow

Average wind speed: 34.9 mph

Highest wind gust: 157 mph on Jan. 24

125 days with gusts >73 mph

38 days with gusts >100 mph

16 days noted as clear or mostly clear

44 partly sunny days

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

Dear Members,

90 years. It is amazing to realize that what started as an experiment has turned into a substantial scientific nonprofit. What would our founders think?

From exciting yet simple beginnings, today Mount Washington Observatory is a highly complex organization. Three physical locations. A fleet of vehicles for year-round transportation. A highly skilled staff of meteorologists, educators, communicators, and development, technology, and accounting professionals.

Over the past year, the official work of the Observatory continued unabated. Presented with the challenges of changing pandemic norms, our summit weather station team adapted and modified protocols to keep everyone healthy. Our educational outreach continued throughout the year. We entered the pandemic era with the advantage of extensive virtual programming experience, so we expanded that outreach and continued providing information to young and mature minds. Critical research efforts resulted in publications, presentations, and recognition of the unique data set the Observatory possesses.



If you visit the summit, you will see our Extreme Mount Washington museum and perhaps tour the weather station. The pandemic had a significant effect on us, but we are back open to the public and you, our members.

The weather observations and data, educational programs, research findings, and museum are the visible elements of the Observatory. You read about them in *Windswept*. You find them on our website. You visit them on the summit.

There is also a tremendous amount of “invisible” work. Things that are critical to the success of the organization but often hidden from view. And this past year had a lot of that “invisible” activity – activity that is all part of the MWOBS evolution.

The Board of Trustees put together a new strategic plan. This essential roadmap established four key areas of focus for the organization: Science and Research, Outreach, Finance, and Governance.

This plan’s implementation renewed our focus on science. We have expanded our expertise in both development and communications, both part of our outreach goal. Our financial acumen grows with assistance from new auditors and excellent trustee leadership. And our trustees implemented governance changes to assure new ideas while helping the board be most effective in their leadership.

That’s enough to focus on during any year, for any organization. At the Obs, we added moving and storage to our portfolio as well. The first week of September, we moved back into our newly renovated office space and moved the Gladys Brooks Memorial Library and Archives from the basement to the second floor. This happened while juggling all the other things that happen every day – summit weather observations, training new observers, distance/virtual educational events. The latest version of Seek the Peak took shape in July and was successful. New staff came on board. The work of the Observatory continued without pause.

As I come to the end of my time as interim executive director, I have to express my gratitude for this experience. For the opportunity to work with a unique organization with such a committed community of supporters. And the opportunity to work with amazing professionals who do whatever it takes to get the job done.

There aren’t enough kudos in the world to express my appreciation for the fabulous staff team here at the Observatory. Keeping everything rolling while we were literally moving and shaking took extraordinary effort. These professionals are what make Mount Washington Observatory happen. They are the key to success. And while many of them may work in those “invisible” areas of the organization, and some are more “visible,” the Observatory doesn’t exist without them.

Yours,

Donna French Dunn

Interim Executive Director

What started as an experiment endures for 90 years and counting

It was in October 1932 when a new White Mountains institution was established. However, its founders didn't know it would last decades, let alone into the next century.

Mount Washington Observatory was seen as a short-term project with an important but time-limited mission.

The timing of the enterprise was especially important since it served as a contributor to a worldwide scientific exercise, the International Polar Year (IPY), devoted to the study of high latitudes and altitudes. There was a keen interest in learning how weather systems interacted with high terrain, and a recognition that full-time mountain stations gave detailed information that aircraft or balloons could only briefly sample.

Mount Washington's was the only mountain station in North America to partner in the IPY. To add to the value of the summit observations, parallel, comparative observations were made at Pinkham Notch by Observatory co-founder Joe Dodge and at the Mount Washington Cog Railway's Base Station by caretaker Charles Buckner.

As with earlier summit occupations, having sufficient funds for the unavoidable expenses of a mountaintop operation was a serious need. The Depression years did not make fundraising an easy task. No government funds were available. But after Dodge gave a presentation on the plans to the New Hampshire Academy of Science, the Academy made a generous contribution, which allowed even this challenge to be surmounted.

One of the Academy's members, Henry S. Shaw, was also intrigued by the occupation of the summit, especially for radio research, and became an important donor in the earliest years.

The Observatory, like the IPY, was intended to be a short-term enterprise. But, unlike the IPY, the Observatory continued.

Weather observations continued on a daily basis, research projects filled the hours of the staff, and regular communications with the public helped foster better understanding and respect for the sometimes harsh but also fragile alpine environment.

As might be expected, the 1934 World Record Wind clocked by Observatory staff only added to public interest in their work, and to the determination to continue it.

All of that started, remarkably, 90 years ago. Many things have changed on Mount Washington since Oct. 15, 1932. Buildings have changed – including those that have housed the Observatory – and patterns of summit use have changed.

The challenges of maintaining a remote weather and research station in a remarkably harsh location are certainly still with us. Those include the logistical challenges related to transportation and other mountain operations, the need to raise funds to support the Observatory activities, and the work required to recruit, train, and retain talented staff. Just as in the early days of the Observatory, we have come to rely on the kindness and generosity of many supporters, including private companies on and private individuals off the mountain, to allow us to continue our important work.

—Dr. Peter Crane



The team that made up the first crew numbered four: Alex McKenzie, Bob Monahan, Joe Dodge, and Sal Pagliuca. Dodge was best known as Huts Manager for the AMC. Monahan, a Dartmouth graduate, received a Master's in forestry from Yale. He and Dodge were the principal organizers of the enterprise. The spirit of mountain adventure was an important impetus for their daring project. The challenge of spending an extended period atop the Northeast's highest peak, and doing valuable work there, was undeniably attractive.

They benefitted from the enthusiasm of Dr. Charles F. Brooks, director of Blue Hill Observatory, which supplied weather instruments and training. The tools for investigating alpine weather were evolving with the field of meteorological science. Using sounding balloons added a new significance to observations from the mountaintop. In the 20th century's first decades, emerging technologies including powered aviation and radio made understanding of weather more compelling and provided new opportunities for its study.



“After one winter, there was no good reason to stop; and there was excellent reason for continuing, for the data obtained were proving of value in forecasting.”
—Dr. Charles F. Brooks



You move our mission forward

in the face of extremes

With your support, our joint research project with the Appalachian Mountain Club examining long-term **effects of wind and humidity trends on alpine zone ecology and tree line elevation** was successfully proposed. With funding from the Waterman Fund, the research will aid alpine zone conservation planning.

Three strategic research projects were completed: a technical overview of the Mount Washington Regional Mesonet, an analysis comparing 30-year climate statistics known as U.S. Climate Normals, and onsite and third-party testing of our Next Generation Anemometer, Pitot 22.

Hosted research at the summit included the NH Fish & Game White Mountain Fritillary Project, UNH's Monitoring of Cosmic Radiation Intensity, and Draper Laboratory.

Research abstracts were submitted to the American Association of State Climatologists Annual Meeting (topic: mesonet operations), the AMS Annual Meeting (where we presented on the topics of Climate Normals, Long-Term Visibility, and WeatherX), and the AMS Mountain Meteorology Conference (topic: Next Generation Anemometer)

New observers who came on-board all **passed their METAR exams in near record times.**

The National Weather Service renewed its contract with MWOBS, **relying on our hourly weather observations and mesonet data** to help inform NOAA's weather forecasts, warnings, and climatological services.

No gaps in publishing the daily Higher Summits Forecasts, sending hourly data to the National Weather Service, and monthly data to the National Centers for Environmental Information.

Two new MWOBS wind sensors are now collecting data on the world's highest weather monitoring stations. Designed, custom-built, and tested on Mount Washington last winter by MWOBS Director of Technology Keith Garrett, our pitot static tube anemometers were installed near the summit of Mount Everest in May. The Observatory was asked to work on the project by climate scientists Dr. Baker Perry of Appalachian State University and Dr. Tom Matthews of King's College London. **"Holding vast quantities of snow and ice, [the Himalayas] act as water towers to over a billion people downstream," Perry said.** "Yet we know little about how they are responding to climate warming because they are so hard to monitor."

YOUR IMPACT: MEASURING WEATHER AND CLIMATE ON MT. EVEREST



Kami Temba Sherpa and Tenzing Gyalzen Sherpa finalize the construction of the weather station at Bishop Rock during the May 2022 expedition of Mount Everest, supported by National Geographic and Rolex through their Perpetual Planet Expeditions. Arbindra Khadka/National Geographic photo.

"The highest mountains in the world are a critical yet under-monitored cog in the Earth's climate system." —Dr. Baker Perry

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).

After a pandemic pause, the **summit intern program resumed, mentoring young scientists** who supported the Climate Normals Comparison and Next Generation Anemometer research projects.



Our dataset continues to expand **minute by minute, 24/7/365** with no disruptions.

We're pushing through challenges, **connecting you** with Mount Washington



MWOBS staff dedicated nearly **900 hours** to safe transportation, ensuring **continuous data collection and outreach programs** at our summit weather station, thanks to your support.

New SMS text service **improved access to weather updates in the backcountry**. Texting “weather” or “forecast” to 603.356.2137 generates an automated reply. **19,000 texts received** since December.

Three new weather cameras **added live-streaming video and time lapses** of Mount Washington’s weather.

31 distance learning programs, delivered to schools, libraries, science centers, and special groups, **reached over 4,000 students of all ages**.

30 free virtual classrooms **delivered 15 hours of new programming on weather, climate, and climate change** for *Home of the World’s Worst Weather™ Live!*, which saw nearly 3,000 YouTube views.

Our membership model was updated so that all supporters making a general donation, no matter how much, are considered members. This allows **better engagement with you and everyone who supports our mission**.

Our *Extreme Mount Washington™* summit museum reopened for the summer 2021 season after being closed during 2020. During the summer-fall season, **over 325,000 people** visited the summit, learning about the mountain’s weather, climate, ecology, geology, and cultural history.

Our largest annual fundraiser **Seek the Peak was expanded into a multi-sport event**, launching our new Mount Washington Adventure Expo.

Sustaining a weather station on Mount Washington since 1932 has given scientists one of the world's most valuable data sets for studying high-terrain weather and climate. Data and research support from MWOBS were vital to a 2021 study by Appalachian Mountain Club Staff Scientist Georgia Murray. **"The quality of the data is exceptional. There is no other upper-elevation data set that can really compare,"** said Murray, whose study found the annual average temperature on the summit has warmed by a statistically significant rate of 1.5 °F since 1935. Our story on the topic garnered visits and lead features by WBZ CBS Boston and 90.9 WBUR, among others.



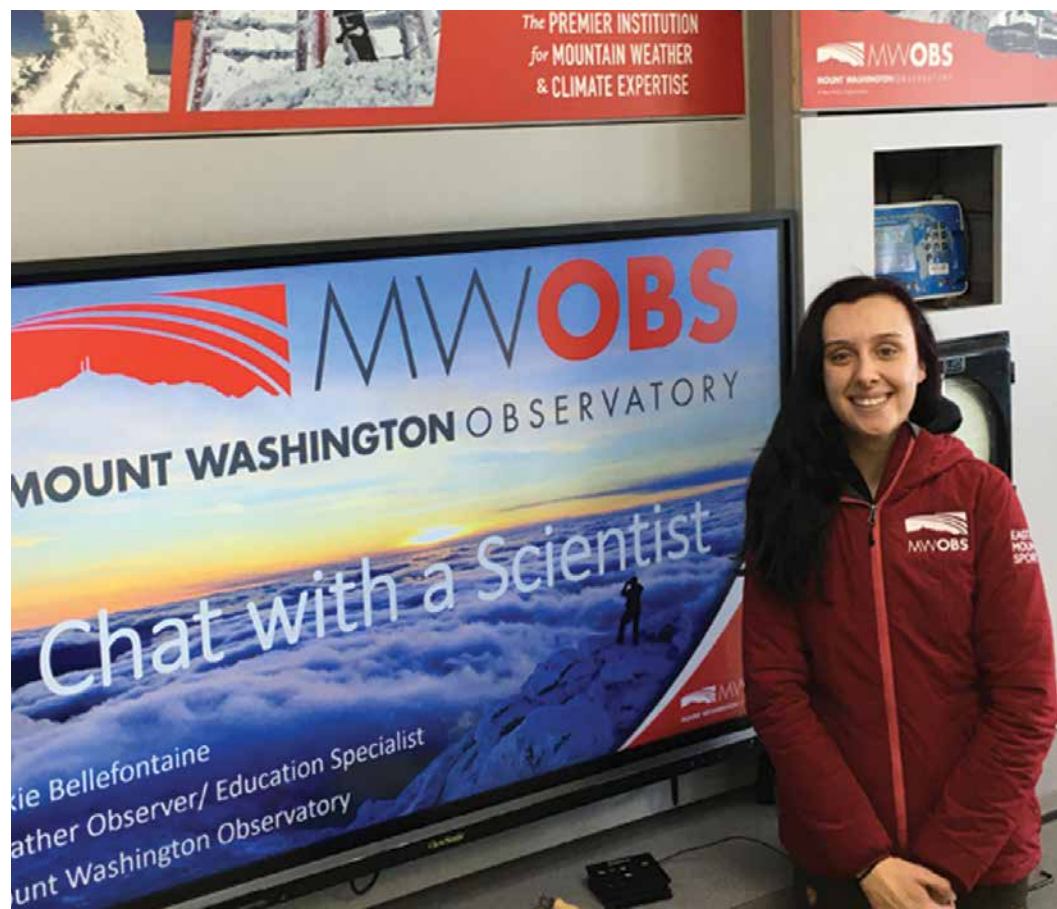
YOUR IMPACT: PRIORITIZING CLIMATE NEWS

MWOBS and WBZ CBS Boston staff walk a section of the Mount Washington Auto Road as our snowcat plows a path to the summit in early March.

“What’s happening at the upper layers of the atmosphere ultimately has impact on what’s being experienced down below.” —Brian Fitzgerald

12 Chat with a Scientist programs connected our weather observers with classrooms participating in WeatherX. We reached over 180 students while working with six teachers across rural middle schools in NH and ME to test new curriculum.

11 Science in the Mountains™ virtual lectures engaged 3,641 Zoom attendees, 2,974 YouTube views, and 1,000+ Facebook Live viewers, featuring speakers from Blue Hill Observatory, University of Maine, Mount Washington Avalanche Center, and others.



Your support sustains our work in weather and climate



Thank you for ensuring our 90-year climate record will continue providing vital and verifiable data for researchers, meteorologists, and students studying Earth's weather and climate.

MWOBS current donor retention rate is 69% (which does not include Seek the Peak peer-to-peer fundraisers). The average non-profit donor retention rate is 45%.

During November and December, including our 2021 Year-End Campaign, **more than 1,300 donors gave a total of \$225,000.**

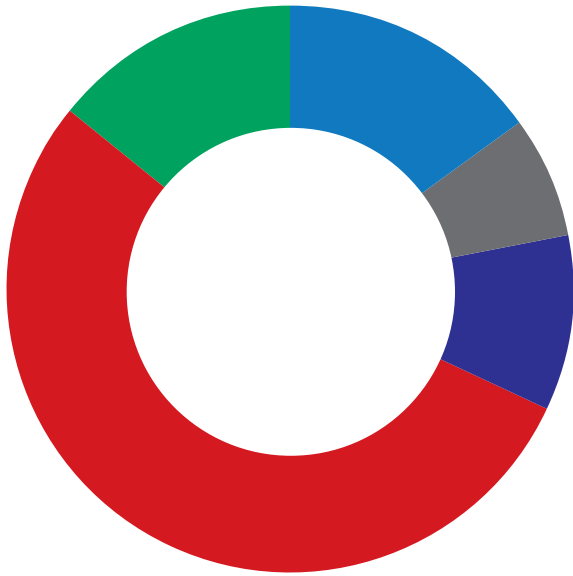
With the introduction of our new membership model in fall 2021, we added a monthly recurring donor option counting towards membership. **The number of recurring donors increased by 400% in the first five months of 2022.** Monthly donations help sustain our nonprofit by improving cash flow throughout the year with predictable revenue.

Our 21st annual Seek the Peak raised more than \$165,000 thanks to 300 fundraising participants, event sponsors, Adventure Expo admissions, and raffles, all while providing opportunities to share our mission and work with an incredible audience of outdoor enthusiasts.

Fiscal Year 2022 Reporting

May 2021 through March 2022*

Revenue



Summit	\$225,331	15%
Retail	\$103,725	7%
Education	\$158,621	10%
Advancement	\$816,662	54%
Administration	\$216,552	14%
Total Operating Revenue	\$1,520,891	

Expenses



Summit	\$449,272	29%
Retail	\$50,217	3%
Education	\$139,657	9%
Advancement	\$255,422	17%
Administration	\$639,561	42%
Total Operating Expenses	\$1,534,130	

*Fiscal Year 2022 was 11 months long due to changing our fiscal year end from April 30 to March 31. Per our new fiscal calendar, approved by the board of trustees, Fiscal Year 2023 began April 1 and will end on March 31, 2023.



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*This list does not include restricted donations, in-kind gifts, Seek the Peak donations, or the number of hours our volunteers donate each year. Donors who have asked to remain anonymous are not listed.

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YOUR IMPACT: LAUNCHING WEATHER CAREERS

WMTW News 8 Meteorologist Sarah Long often describes her experience at MWOBS as her “meteorology street cred.” Four years at the summit (1997-2001) immersed her in weather research, observation, education, and communication. Now a member of Maine’s Total Weather team at WMTW, Long continues to watch what happens on Mount Washington daily. Our data and forecasts are especially useful when predicting mixed precipitation in northern New England. “The mesonet system you guys have is extremely useful,” she added.

Long started at MWOBS as a Weather Observer, then became Chief Meteorologist, and eventually led the station team as Summit Manager. Often when sitting at the dinner table with overnight guests, she would be asked if she was an intern. After a while, “I learned to enjoy the opportunity to challenge people’s perception of what a scientist looks like, and what a manager of a mountaintop observatory looks like,” she said. Representation for women in science is critical to her. Earlier in her career, Long served on the American Meteorological Society’s Board of Women and Minorities.



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North Conway, NH guide Paul McCoy leads groups to higher summits of the White Mountains throughout the winter climbing season, relying on Observatory forecasts to anticipate weather systems and keep people safe. He's on Mount Washington at least once a week, and he uses our Higher Summits Forecast to gauge what's ahead and prep clients before they hit the trail. **"It's the most accurate forecast around. I use it all the time, any-time I am going up high," said McCoy.** He also volunteers for Mountain Rescue Service, whose technical teams check MWOBs forecasts when heading out for search and rescue missions.



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1ST ANNIVERSARY FOR NIMBUS

Our adorable and mischievous resident summit cat NIMBUS celebrated his Gotcha Day on April 14, 2022 after spending his first full year on the “meowtain.” A super social and vocal cat, after kitty zoomies every night he insists on a lap for cuddling in our living quarters. During the day, he likes to walk across the weather desk, mess up papers, then venture off to do what cats do. We simply ADORE him!



Janice Saylor
Imre Szauter
Mr. Dan Szczesny
Anders Tabor
Dean Talbot & Eleanor Vallier-Talbot
David K. Talbot
Edmond Talbot
Marguerite & William Tallman
Nicole Tallman
Mike Tamulis
Xuan Tan
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Ms. Rebecca E. Tarby
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Ralph Warren
Gary Warzocha
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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.

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