AMS

American Meteorological Society

# 2023 Annual Report

## *All Hands On Deck*

Photo Credit: Kristy Sharkey

AMS

American Meteorological Society


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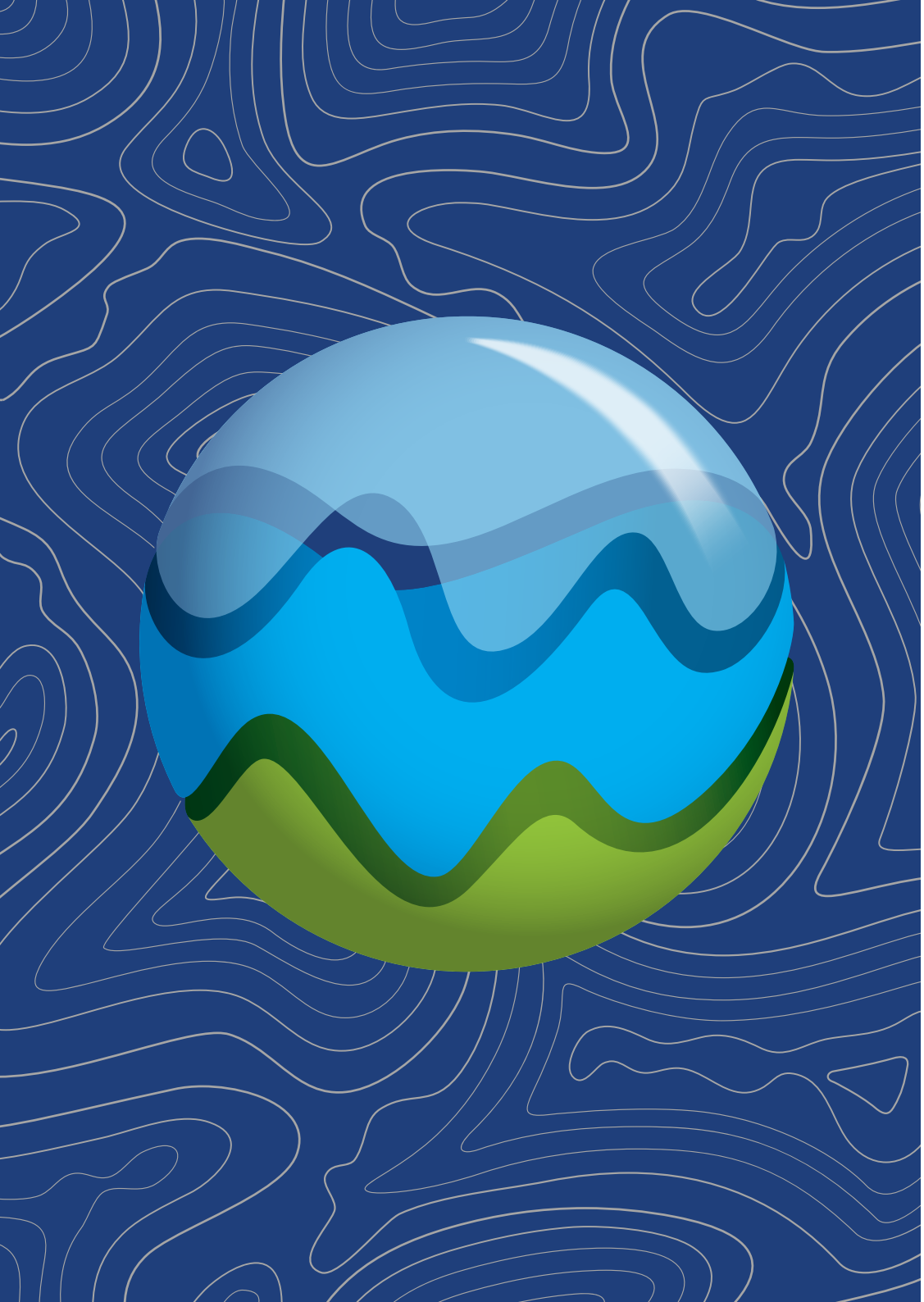


The American Meteorological Society brings together weather, water, and climate professionals and enthusiasts of all stripes under one umbrella. Here, we connect, share, and collaborate to advance our sciences and work toward an informed, safe, sustainable world.

The atmospheric, hydrologic, and oceanic sciences are utterly crucial to maintaining human societies and preserving life on Earth in a changing climate. Our members and the professions they represent—researchers, educators, emergency managers, forecasters, communicators—are saving lives and improving the world. As a nonpartisan, neutral convener, AMS has the unique ability to bring together people across sectors and subject areas to address difficult challenges. Everyone is a stakeholder in our work. As a member, donor, sponsor, or community member, we thank you for your involvement.

## Our Mission

**The American Meteorological Society advances the atmospheric and related sciences, technologies, applications, and services for the benefit of society.**

# The AMS

- Advances science and its impact through meetings, publications, and advocacy for evidence-based decision-making.
- Progresses our professions by providing vital career resources and working to improve accessibility, equity, and diversity across sectors.
- Convenes global partnerships to solve pressing problems that face us all.

# In 2023*

**12,127** Members
**1,524** Board and Committee Volunteers
**8,726** Meeting Attendees
**12** Journals
**1,382** Accepted Journal Articles
**2** Policy Reports
**80** AMS Awardees



Photo Credit: Elan Azriel

*Numbers as of December 31, 2023, except meetings figures, which cover February 2023–February 2024

# Letter from the Executive Director

Friends,

In 2023, the vibrancy and growth of our weather, water, and climate community was on clear display. From the excitement of our meetings to the urgency of our science; from the dedication of our volunteers to the enthusiasm of learners attending the Early Career Leadership Academy, the Summer Policy Colloquium, or our Jamposium and webinar events, we are all full of energy and committed to our work together.

That sense of strong community is something we all cherish, and AMS has worked hard this year to strengthen and support it. For the first time since our centennial celebration, AMS hosted all our annual and specialty meetings in person in 2023—leading into our record-breaking 2024 Annual Meeting, with the largest attendance AMS has ever seen. We have increased our meetings' accessibility, with hybrid attendance options now permanently in place. We introduced the Career Advising Portal to help all AMS members navigate their career journeys and build supportive professional relationships. And we conducted our first ever Equity Assessment, which will inform ongoing strategies to increase accessibility, equity, and inclusion within our Society and our community at large.

As always, we also seek to further the spread of credible, useful atmospheric and hydrologic science. In 2023, we introduced free online access to ALL AMS journals online content for our members and stepped up our outreach to the public, including increased media relations. We launched our Certified Broadcast Meteorologist exam in Spanish, and, in close partnership with CHALA, successfully piloted a project to translate popular AMS Glossary of Meteorology terms into Spanish. With additional funding, the glossary project would provide vital common ground across languages for life-saving weather information.

And of course, the AMS is constantly on the move. In 2023, we undertook a comprehensive Council 360 assessment, which will play a pivotal role in helping AMS governance be ever more effective and responsive. To inform the Society's overall vision for the next several years, we began an operational and business strategic discussion, including work with the consulting group Community Action Partners. We will keep you posted as we work to build an equitable, sustainable, and agile future for the AMS.

AMS is its people: its members, numerous volunteers, staff, and international community. As the world faces new challenges and disruptions resulting from our warming planet, I look to these people, to this global community. Working together, we are lighting a beacon of hope for a just society and a sustainable future.

Sincerely,

Stella Kafka, PhD

# Letter from the President

When I entered the role of president in early 2023, I was excited to work with the AMS at all levels to support our members in their shared goal to advance climate and Earth science, and bolster weather services for the betterment of society. It is an honor to have been in that role and to have worked with an incredible AMS staff, council, and a sea of motivated volunteers. Through collaborative efforts and strategic initiatives, our community continues to make incredible strides in understanding and addressing the complexities of our changing environment.

One of the things I'm most proud about of our AMS community is that we are not afraid to confront a problem that needs solving. Our 104th Annual Meeting, themed "Living in a Changing Environment," focused on science, innovative dialogue, and practical solutions to climate issues. Held in Baltimore, the event was charged with positive energy and collaborative discussions among the 7,226 attendees from 62 countries, including students and professionals across various fields. This gathering not only showcased our community's global impact and commitment to scientific advancement through over 4,245 technical sessions, but also highlighted the dedicated efforts of our planning team, sponsors, and volunteers who made these achievements possible. My deep appreciation is extended to the co-chairs (Kristen Averyt, Kerry Emanuel, and Julie Pullen) and all the members of the Overall Planning Committee and the Local Organizing Committee; as well as the AMS staff, especially Jen Ives, Jenn Rosen, and Claudia Gorski, and their teams, and all the members who volunteered their time to make the meeting such a great success.

The Awards Ceremony and Pre-Awards Reception were particularly memorable this year. The return of the event to Wednesday evening ensures our field's heroes receive the recognition, attention, and audience they truly deserve. Celebrating 47 awardees and new Fellows, the event exemplified our community's achievements. The evening began with a special champagne toast, setting a festive tone for an event that not only recognized excellence but also strengthened the camaraderie and spirit of our AMS community. Kim Klockow and the AMS staff played pivotal roles in enhancing the ceremony's impact.

Beyond the conference center, we extended our outreach to the local Baltimore community, embodying our ethos of service and engagement. Through initiatives, such as the Scarf Fundraiser, we demonstrated our commitment to making a positive impact beyond the realm of science. As we look to the future, let us build upon the successes of this meeting, embracing inclusivity, innovation, and sustainability as guiding principles for our continued advancement.

My optimism goes beyond the science and services we provide. In Baltimore, I was privileged to speak at the 15-year celebration of Coriolis, our LGBTQIA2S+ networking group. Seeing the huge turnout from AMS members of all ages impressed upon me the value of the steady work so many people in our community have done over the decades. Seeing the AMS work to incorporate the findings from our Equity Assessment into improved support for one another is a similar source of hope for me: when we apply ourselves, things change.

In the atmospheric and hydrologic sciences, we know this well. We've often seen our research politicized or disregarded, especially when it comes to climate science. But we haven't given up. Every day, across all our sectors and professions, we get up and apply ourselves to our work. We add to the human knowledge of our Earth system, we teach, we learn, we innovate, we communicate, and we use science to help humanity adapt and confront a changing world. As we look ahead, I am particularly excited about the fresh look we are taking toward our future as Executive Director Stella Kafka leads the Council through a strategic planning exercise. The demand for our advances only grows and we must work hard to continue delivering to society. As my term concludes, I extend my deepest gratitude to our members, partners, and stakeholders for their unwavering dedication to the mission of the American Meteorological Society. Together, we have laid the groundwork for a more resilient and sustainable future amidst the dynamic forces of nature.

Sincerely,
Brad Colman
2023 AMS President

# The Year in Review

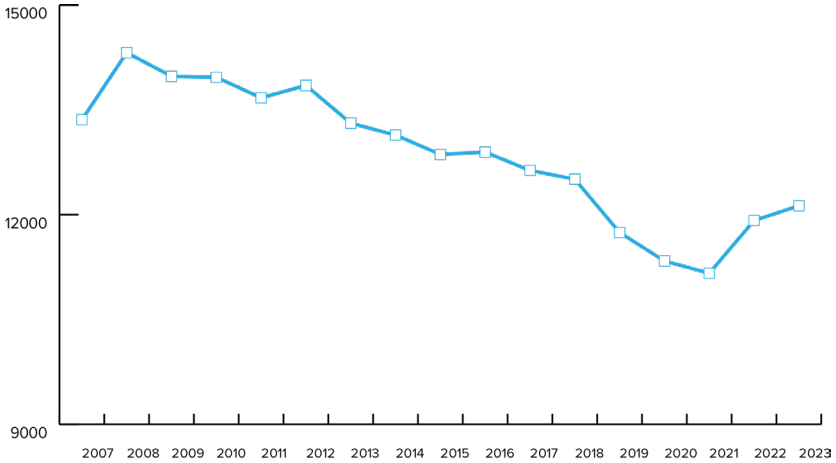
Photo Credit: Michael Seger

# AMS Membership: Growth and Engagement

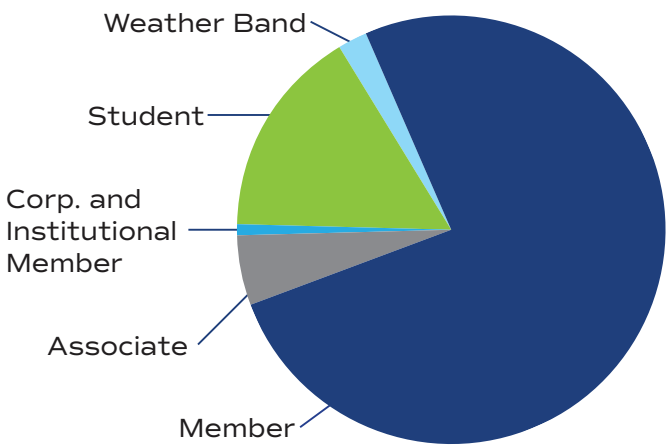
Membership in the AMS continued to increase in 2023, for the second year in a row (Fig. 1). Expanding our membership to include the enthusiast members of the AMS Weather Band, a renewed focus on engagement with both active and lapsed members, and better communication with regards to AMS's products and services, were all factors that played a role in the increase.

In the fall of 2023, AMS Council approved a new and lower membership dues rate for members of affiliate societies. These societies include the Australian Meteorological and Oceanographic Society (AMOS), the Meteorological Society of Japan (MSJ) and the Canadian Meteorological and Oceanographic Society (CMOS), among others.

**Fig.1: Membership changes since 2007**




**2023 Member Types**




**12,127**

Individual and Organization AMS Members in 2023 (up from 11,916 in 2022)

**1,808**

New Members in 2023 (up from the 1,607 who joined in 2022)

## Membership

# You asked, we listened!

At the 2023 Annual Meeting, we announced a new member benefit: free access to AMS Journals Online content. AMS is committed to ensuring that our members, regardless of their backgrounds or affiliations, have unrestricted access to the latest research and information, fostering a more inclusive and knowledgeable community.

> “The AMS is OUR professional scientific organization, and the world’s preeminent professional organization for meteorology, climatology and oceanography. I consider it both a responsibility and an honor to give back to my profession, and AMS provides numerous opportunities to do so. AMS involvement has strengthened me professionally as well as personally.”

Paul Gross, CCM, CBM,
Meteorologist Emeritus, WDIV-TV

# AMS Meetings
## *Engaging Science for a Changing World*

AMS Meetings provide world-class pathways and opportunities to share science, connect, and collaborate within and beyond our community to benefit society as a whole. The Meetings team planned and executed a record-breaking 104th Annual Meeting plus six specialty meetings; updated and began implementing the new AMS Green Meeting Guidelines and 2023 Annual Meeting Sustainability Report; and facilitated the Future of Meetings Task Force Report, which will guide the strategic planning for AMS Meetings for years to come.

> “The theme of our 104th Annual Meeting is ‘Living in a Changing Environment.’ It’s about our community’s role in informing solutions to the global climate and environmental crisis. The AMS community is the home of innovative work in climate change research, mitigation, and adaptation, and this meeting puts that work front and center.”
>
> Brad Colman,
> 2023 AMS President

**From February 2023 to February 2024, AMS Meetings had:**

- **8,726** Attendees (7,970 in-person and 756 virtual attendees)
- **4,550** Presenters
- **145** Program Chairs
- **95** Exhibitors
- **69** Career Fair Organizations
- **58** Sponsors
- **22** Student Financial Aid/ Travel Grant Awards
- **90** Student Assistants Funded
- **141** Students Best Presentation Awards
- **19** Metric Tons of Carbon Emissions Offset (staff travel)
- **1,253** Gallons of Coffee Served

## Meetings

# Living in a Changing Environment: The AMS 104th Annual Meeting

**"All hands on deck" for climate change**. We saw record-breaking attendance in Baltimore for the AMS 104th Annual Meeting, which squarely centered global climate and environmental change. The Presidential Forum discussed how to advance society's acceptance and use of climate science, while Presidential Sessions brought attendees together around topics like renewable energy, climate change attribution, science communications, and public health. The meeting proudly hosted more than 40 scientific conferences and symposia, including two named symposia honoring eminent atmospheric scientists Dr. Daniel Keyser and Dr. Kuo-Nan Liou.

**7,226** Annual Meeting Registrants

**740** Student Conference Registrants

> "The AMS Student Conference has provided us with countless opportunities to gain leadership, scientific, and networking skills to prepare us as we graduate and enter the professional workforce. We have become friends with each other and with students from all over the world because of the Student Conference!"
>
> 2024 AMS Student Conference Chairs Dillon Blount, Angelie Nieves Jiménez, and Melissa Piper

**Save the date for the 105th AMS Annual Meeting: 12–16 January, 2025, in New Orleans, LA and online!**

## Meetings

# 2023 Specialty Meetings

2023 saw six exciting AMS specialty conferences. All were hybrid, available for in-person and online attendance:

- 2023 AMS Washington Forum | 17–19 April, 2023 | Washington, DC
- 35th Conference on Agricultural and Forest Meteorology/14th Fire and Forest Meteorology Symposium/Sixth Conference on Biogeosciences | 01–04 May, 2023 | Minneapolis, MN
- 50th Conference on Broadcast Meteorology | 21–23 June, 2023 | Phoenix, AZ
- 32nd Conference on Weather Analysis and Forecasting (WAF)/28th Conference on Numerical Weather Prediction (NWP)/20th Conference on Mesoscale Processes | 17–21 July, 2023 | Madison, WI
- 40th Conference on Radar Meteorology | 28 August–01 September, 2023 | Minneapolis, MN
- Summer Community Meeting | 29–30 August, 2023 | Minneapolis, MN

> “I’ve attended every AMS Radar conference since the 2005 conference in Albuquerque, New Mexico. … This year’s radar conference was special because it was the first one since the COVID-19 pandemic scuppered the 2021 edition [and] the radar meteorology community’s enthusiasm for being back together in person was on full display.”
>
> Robin L. Tanamachi,
> Associate Professor,
> Purdue University

## Meetings

# 50 Years of the Conference on Broadcast Meteorology

**Celebrating the "Station Scientist."** The 50th Conference on Broadcast Meteorology took place in Phoenix, Arizona, June 21–23, 2023. It was organized by the American Meteorological Society Board on Broadcast Meteorology and chaired by Danielle Breezy and Vanessa Alonso. AMS helped celebrate by highlighting memories from longtime broadcast meteorologists.

"From my over-35-year career as a broadcast meteorologist, I have learned the one thing you can count on is change … change in management at all levels, change in responsibilities, and change in the technology and the way we present the weather. But with all those changes we have to remember what we are there for … to serve our communities with the most accurate, informative weather information, especially in critical times."

Lisa Spencer,
Chief Meteorologist,
News4,
Nashville, Tennessee

"I attended my first AMS Broadcast Conference in 1993 in Charleston, South Carolina, on the hunt for my first job as a broadcast meteorologist [and] I've gained so much from each conference. … What I cherish the most: long-lasting friendships among colleagues. Each conference is a reunion. In some way we've all impacted each other in boosting confidence and in being challenged to deliver daily the best information in helping viewers plan and be safe!"

Yolanda Amadeo,
Chief Meteorologist,
WALB News,
Albany, Georgia

# AMS Publications: Foundations for Impact

The high-impact, rigorously peer-reviewed research AMS publishes is a vital foundation for progress across the atmospheric and related sciences and services. The AMS Publications Commission, AMS staff, and our peer-review volunteers work tirelessly to maintain the highest scientific standards and to identify and monitor important trends in scholarly publishing.

As of 2023, all AMS Journals Online are now FREE to access for all AMS Members and Student Members.

In 2023, AMS Publications introduced the new "Perspectives" article type in *Artificial Intelligence for the Earth Systems* and *Earth Interactions*. These articles summarize current problems and proposed solutions. We outlined our commitment to AMS policies on inclusion through the publication, "Equity, Inclusion, and Justice: An Opportunity for Action for AMS Publications Stakeholders," and continued our move towards Open Science, as summarized in the January 2023 article, "AMS Publications Support for Open, Transparent, and Equitable Research."

We also joined WeChat, China's "super-app," with weekly posts highlighting research published in AMS journals by Chinese researchers, highly cited papers, and other AMS activities.

> "I always remind myself that every single paper I have published in an AMS journal has benefited substantially from the peer review process ... I owe it to the others in my field to contribute, to the extent that I can, my expertise to do the same when I am reviewing their paper."

Michael French,
Associate Professor,
Stony Brook University

## AMS Publications in 2023

**11** Technical Journals—PLUS the *Bulletin of the AMS* (*BAMS*), *Meteorological Monographs*, and the *AMS Glossary of Meteorology*

**2,745** Journals Submissions

**1,382** Journals Submissions Accepted

**25,780** Journals Pages Published

**185** BAMS Proposals Accepted

**193** BAMS Submissions

**99** BAMS Submissions Accepted

**175** Volunteer Peer Review Editors

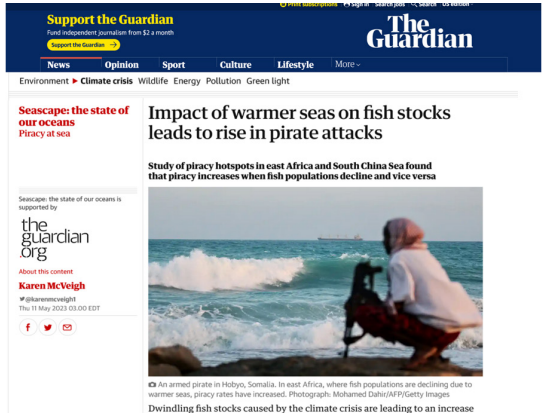
**4,657** Volunteer Peer Reviewers

## Publications

# Science in the Public Eye

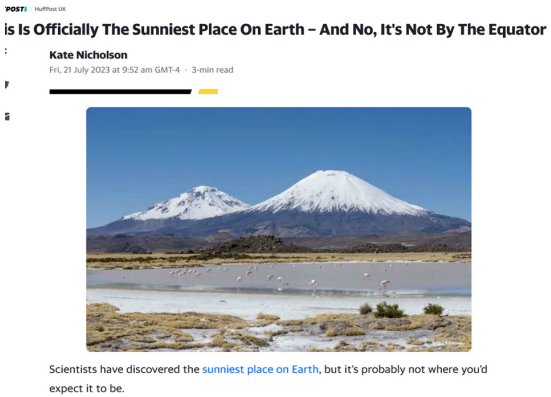
AMS publications often made headlines in 2023, influencing the public conversation about weather and climate.

Climate change is affecting the number of home runs in U.S. baseball, according to a study by Chistopher W. Callahan and colleagues, published in *BAMS* and covered by major U.S. and global news outlets.



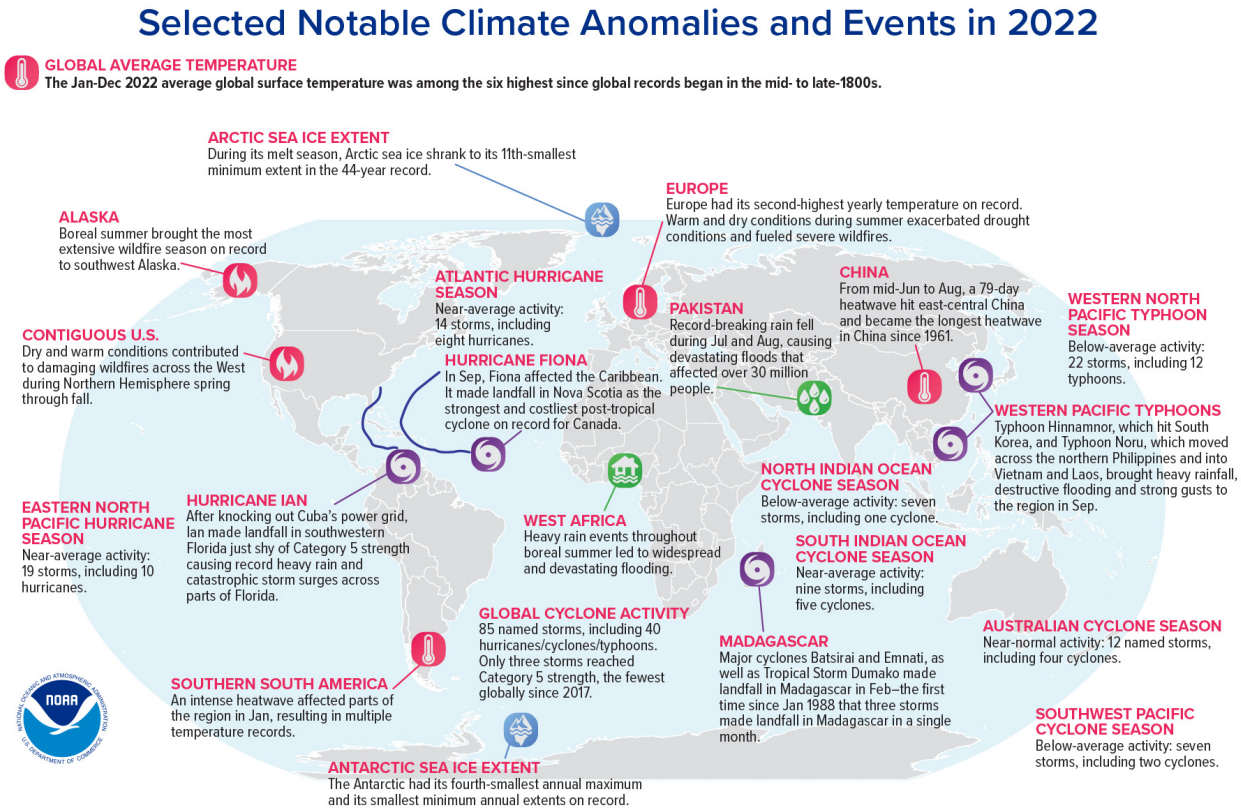

Maritime piracy trends appear to be affected by climate change's impact on fisheries, according to a study by Bo Jiang and Gary LaFree, published in *Weather, Climate, and Society*.

Thanks to forward-scattering by clouds, Chile's Altiplano region experiences Earth's highest surface solar radiation levels, found Raúl R. Cordero and colleagues in a study published in *BAMS*.




A study in the *Journal of Climate* by Jianjun Yin and colleagues detailed "unprecedented" sea-level rise in the U.S. Southeast and Gulf coast since 2010.

# Science in the Public Eye




*State of the Climate Report summary graphic. Source: NOAA.*

Greenhouse gas concentrations, global sea level, and ocean heat content reached record highs in 2022, according to the 33rd annual *State of the Climate* report, compiled by NOAA, peer-reviewed and published by BAMS. This annual assessment documents the status and trajectory of many components of the climate system, as well as humanity's capacity and commitment to observe them.

## By the Numbers

**18,531** News Articles Mentioned AMS in 2023

**319,953** Journalist Engagements with AMS Articles on Twitter

**61.43 Billion** Combined Visits to Websites with AMS Coverage

# Meteorología en Traducción | Meteorology in Translation

Spanish is the second most common language in the United States, yet multiple studies suggest that Spanish speakers face disparities in receiving, comprehending, and making use of severe weather information. Some of those disparities are likely due to translation issues. In 2023, an AMS pilot project demonstrated the potential to create a shared knowledge base for weather information in both Spanish and English by providing rigorously translated Spanish-language definitions in the AMS Glossary of Meteorology.

The online Glossary of Meteorology is the most comprehensive U.S.-focused glossary of atmospheric science. Used by more than half a million people each year, it contains full, peer-reviewed technical definitions of over 12,000 terms. There is currently no equally comprehensive and up-to-date resource in Spanish.

In partnership with Lilt, a machine-learning translation company, AMS worked with its community of Spanish-speaking experts—led by the AMS Committee for Hispanic and Latinx Advancement—to translate the glossary's 50 most viewed English-language terms to Spanish, while maintaining a high standard of scientific review and accuracy.

Building on the successful pilot, the AMS hopes to obtain funding to translate much more of this vital resource, which would both contribute to and benefit from efforts by federal agencies and private companies to improve multilingual weather communication.

> "Presently in the United States, 1 in 10 individuals speak Spanish. The fact that there's no established glossary or reference material limits us in communicating important science to our audiences. The lack of translations has caused practitioners to communicate risk inconsistently, causing a lot of confusion among the public."

Joseph Trujillo-Falcón,
Researcher,
Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO),
Chair, AMS Committee for Hispanic and Latinx Advancement (CHALA)

**Translated terms include:**

**río atmosférico | atmospheric river**

**capa límite atmosférica | atmospheric boundary layer**

**Pirocumulonimbo | pyrocumulonimbus**

**megadestello | megaflash**

**humedad específica | specific humidity**

**Read the 50 pilot translation terms and learn how to support this project at: glossary.ametsoc.org/wiki/Es**

# Diversity, Equity, and Inclusion (DEI): The Equity Assessment

2023 was an important year for DEI efforts at AMS: in January, we launched our first Equity Assessment, in partnership with the consulting firm Integrated Work. This year-long process included a community-wide Culture Survey and focus groups, and aimed to better understand the Society's challenges and strengths in equity, inclusion, and justice (EIJ). This effort was funded by the American Institute of Physics and championed by the Board on Representation, Accessibility, Inclusion, and Diversity (BRAID), which has worked with many other groups and individuals for nearly five decades to foster a welcoming and inclusive environment within our Society.

## What We Learned:

## The AMS Community Values Equity, Inclusion, and Justice

When considering changes related to equity, inclusion, and justice (EIJ) at AMS, individuals might understandably wonder: "What do others think? Should we take bold steps or proceed cautiously? Will these changes unite or divide our community?"

The Equity Assessment gauged the AMS community's stance on EIJ, revealing an overwhelming belief in its importance to the weather, water, and climate enterprise, and a ringing endorsement to actively integrate EIJ into AMS's future plans.

## By the Numbers

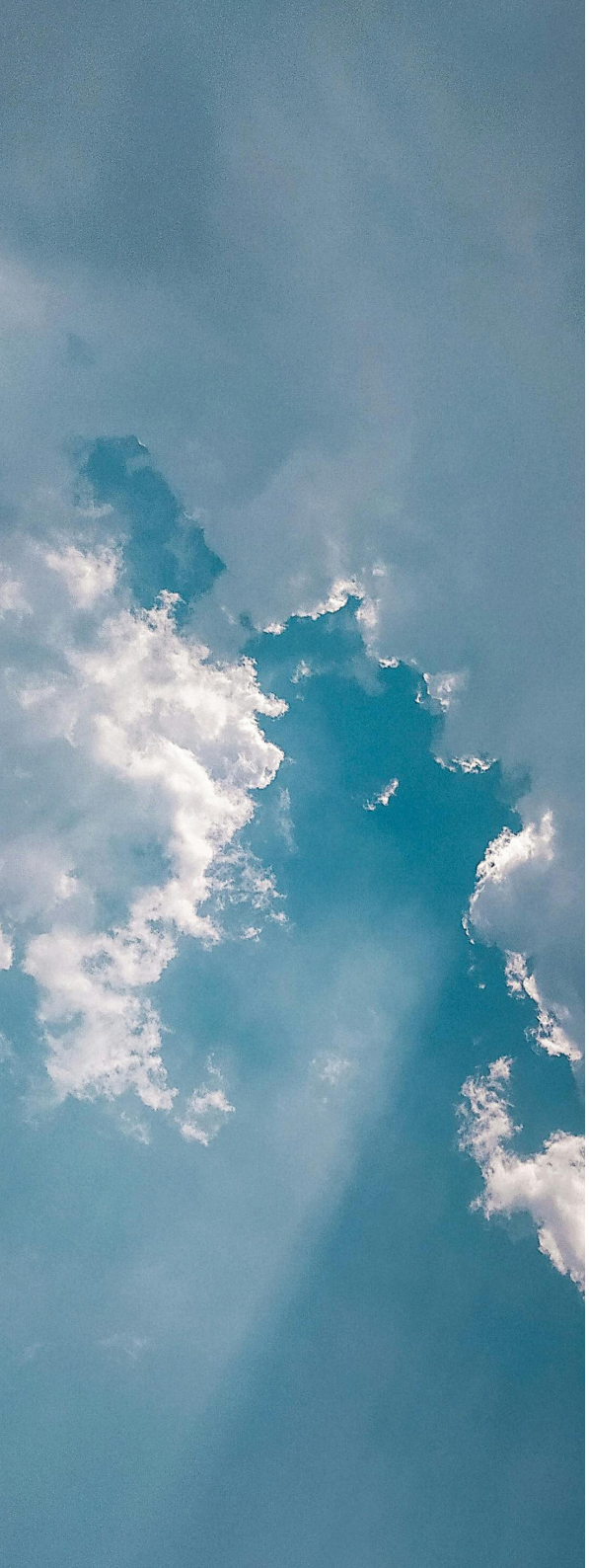
**2,421** AMS Culture Survey Respondents, comprising:

- **65%** Members
- **9%** Student Members
- **21%** Non-Members
- **4%** Staff
- **2%** Unknown

**87%** of Respondents Agreed that EIJ Efforts Are Important to the AMS Community

**48%** of Respondents Said AMS Could Better Accommodate Their Needs

**7.8%** of Respondents Reported Encountering Bias at AMS Events



DEI

# Recommendations

**Based on the findings from the Culture Survey, preliminary recommendations for AMS included:**

1. ## Enhance Connection:
   Develop programs tailored to the unique needs of historically marginalized groups.

2. ## Promote Communication:
   Consistently reinforce the importance of EIJ within AMS and spotlight successes.

3. ## Improve Reporting:
   Revamp the bias reporting system to ensure follow-up and to build trust.

4. ## Advance Education:
   Provide comprehensive training to support broad adoption of EIJ principles.

5. ## Foster Pathways to Leadership:
   Promote inclusive pathways to leadership and recognition.

6. ## Optimize Accessibility:
   Develop comprehensive tools and an accountability framework to ensure greater accessibility.

7. ## Expand Financial Support:
   Offer more flexible financial assistance to support broader participation.

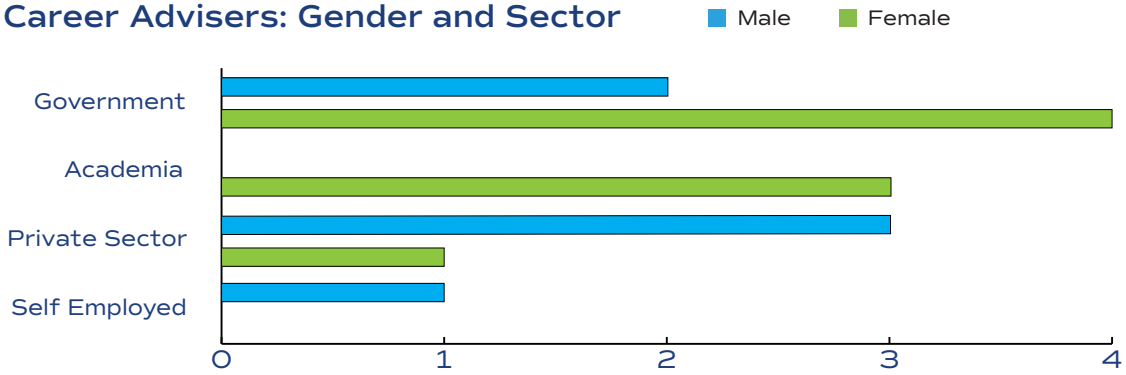
# Careers and Professional Development: Advancing the Field

The AMS Career Development Department works to cultivate a talented, diverse, and enthusiastic workforce in the professions served by the AMS.

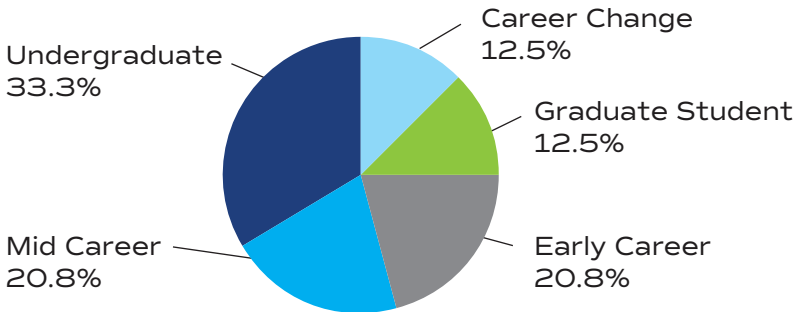
2023 saw a successful first year for the AMS Career Advising Portal, established in 2022 through an AIP Venture Grant. We continued to host our popular AMS Clear Skies Ahead podcast, which gives listeners the opportunity to step into the shoes of an expert working in weather, water, and climate sciences. Interested in being one of our podcast guests? Email us at skypodcast@ametsoc.org.

## More from the Career Advising Portal

### Career Advisers: Gender and Sector




### Career Stages of Members Seeking Advice




> “[My career adviser] has expert knowledge in the field of broadcast meteorology, and she has been immensely helpful in answering my questions, as well as giving me advice as I explore opportunities in the industry.”
>
> Career Portal User [anonymous feedback]

## By the Numbers

**24** Members Connected with Advisers through the Career Advising Portal

**14** Volunteer Career Advisers

**45** Career Webinars

**84** Podcast Episodes Released

**32,671** Total Podcast Listens

# Demystifying Online Weather: Certified Digital Meteorologists

In a crowded digital media landscape, it can be hard to know whom to trust for your weather information. In 2023, AMS moved to help combat confusion and misinformation by launching its new Certified Digital Meteorologist (CDM) program. The CDM designation recognizes meteorologists who meet established criteria for scientific competence and effective communication skills in their weather presentations on all forms of digital media.

CDM candidates must have a degree in meteorology, pass a 100-question general meteorology exam, and have samples of their work reviewed by the Board of Digital Meteorologists. As of February 2024, eight meteorologists had been awarded the CDM seal, and there were 56 candidates in different stages of the application/review process.

> “Broadcasting has evolved from the traditional TV set to the digital world. Anyone can post weather or forecast information online and could be seen as credible, even if they aren’t. The CDM will help meteorologists stand out in an increasingly crowded playing field and help the public know who they can trust both on-air and now online.”

Bill Renschler,
10/11 News,
Lincoln, NE

American Meteorological Society
CDM
Certified Digital Meteorologist

> “Becoming the first Hispanic Certified Digital Meteorologist is an absolute honor I will carry high in my career. The CBM opened many doors for me for 10 years, and I can’t wait to see how this new certification will play in my professional life.”

Irene Sans,
Weather & Radar,
Miami, FL

# AMS Awards: Recognizing Achievement

In 2023, AMS recognized with an award more than 80 scientists, public servants, communicators, innovators, teachers and mentors, and others who have made outstanding contributions to the weather, water, and climate science community—from early-career excellence to sustained impact on the field.

2023 awardees were honored at the 2024 Annual Meeting.

## New Awards

The first-ever Jagadish Shukla Earth System Predictability Prize was awarded in 2023, to Eugenia Kalnay. AMS also approved another new award—the Award for Outstanding Contributions to Boundary-Layer Meteorology—which will be conferred for the first time in 2024.

*Eugenia Kalnay received the Jagadish Shukla Earth System Predictability Prize at the 104th AMS Annual Meeting.*

## By the Numbers

**40+** Awards, Medals, and Lectureships Conferred by AMS in 2023

Nearly **250** Nominations Reviewed

**30** Award Committees

# AMS Policy Program: Promoting Evidence-Informed Policy

The AMS Policy Program helps decision-makers and scientists understand each other and work well together. In 2023, we took significant steps to help the weather and climate enterprises strategize about their future directions, supported the development of professionals fluent in both policy and science through our Summer Policy Colloquium, and published reports on innovation and entrepreneurship and the future of the climate workforce.

*2023 AMS Summer Policy Colloquium participants learned about the U.S. federal policy process to better serve the public and our democracy.*

*Colloquium participants with NOAA Administrator Dr. Rick Spinrad.*

## By the Numbers

**38** AMS Summer Policy Colloquium Attendees

**7** Weather Enterprise Working Groups Established

**105** Weather Enterprise Working Group Volunteers (and counting!)

**2** Policy Studies

## Policy Program

# Charting the Future of the Weather and Climate Enterprises

**What will the climate enterprise look like in 2050?** In 2023, AMS launched the five-year Climate Enterprise Initiative, made possible in part by a grant from NASA. The Initiative is a community-wide effort to better understand the rapidly growing climate enterprise and identify strategies to help the enterprise best serve the nation and the world.

We also launched a two-year effort to help understand the current state of the weather enterprise and enable coordinated action to enable it to thrive over the next decade. This initiative begins with seven working groups focused on aspects of the enterprise including weather warning services, education and training, data accessibility, and numerical weather prediction.

> “I would recommend attending the Summer Policy Colloquium to any young scientist who is interested in the policy process. By being better informed about how science and policy intersect, I’m now able to consider how my own research could fit in … Whether my future takes me back to small towns facing climate risks, leading research universities, or even a career in the policy sector, I know that the Summer Policy Colloquium has given me the tools and knowledge to be a more well-rounded researcher capable of connecting with the world of policy.”
>
> Haven Cashwell,
> Summer Policy Colloquium Attendee

# AMS Education: Learning Everywhere

The Education Department supports formal and informal learning about the atmospheric and related sciences. Since its founding in 1990, the department has focused on supporting K–12 teachers and undergraduate professors in the fields of meteorology, oceanography, and climate science. In the last year, we explored additional educational avenues while updating and consolidating legacy activities.

As part of our foray into informal education, AMS piloted Weather with a Twist, a free, light-hearted weekly e-mail newsletter that highlights recent meteorological research. After a successful pilot, Weather with a Twist has now officially launched on Substack.

AMS Education is using data to guide its strategic planning. In 2023, this included a systematic study (a large survey and in-depth interviews) to learn what K–12 teachers today need from Earth science professional development. We will undertake a similar project in 2024 with undergraduate professors.

AMS welcomed Aaron Price, PhD, as its new Director of Education Programs in 2023.

## By the Numbers

**146** Teacher Participants in an AMS K–12 Course in 2023 (23,000 since the program started)

**227** Participants in Teacher Needs-Analysis Survey

**130** Schools Bought AMS Textbook and Curriculum Licenses

**900+** Subscribers to Weather with a Twist Newsletter

Check out Weather with a Twist

weathertwist.substack.com

# Teaching the Teachers

**Hands-on Science with Project Atmosphere, Project Ice, and Project Ocean**. AMS Education held three summer workshops for K–12 teachers on meteorology, ocean, and climate education. These workshops include a one-week residency along with four weeks of online education and post-course peer training activities. Teachers earn formal graduate course credit through our partnership with PennWest University.

*Participants at the Project Ice teacher workshop learn about paleoclimate through ice cores at Oregon State University.*

*Participants at Project Ocean teacher workshop at St. Mary's College of Maryland.*

> "AMS have always been very supportive, which is another reason I like to stay with AMS and their materials."

Prof. Jennifer Collins,
University of South Florida

# Community Engagement: Enriching Our Community

Community Engagement provides tools, resources, and support to the weather, water, and climate community to help expand the impact of their work. We support AMS volunteer leaders, foster community conversations, and conduct outreach to the public, the media, and more.

This year, we launched a cross-departmental project to create media fact sheets around key weather and climate topics, spotlighting AMS as a trustworthy authority on weather, water, and climate. With input from staff and volunteer leaders, we debuted our first fact sheet at the 2024 Annual Meeting, highlighting hurricane information and expertise.

## Volunteers Making Their Mark

AMS could not make an impact without the amazing work of our volunteer leaders! Our Board and Committee members guide and facilitate the Society's work and set the pace for advances across the weather, water, and climate enterprise. Our members stepped up their interest in leadership volunteer opportunities in 2023, with an average of 2.4 applicants per open Board/Committee position, compared with 1.7 in 2022.

**90** Board/Committee Volunteer Opportunities Announced (vs. 34 in 2022)

**223** Volunteer Applications Received (vs. 60 in 2022)

## By the Numbers

**1,524** Board and Committee Volunteers

**597** Posts in the AMS Open Forum

**54** AMS Professional Chapters Active

**72** Student Chapters Active

## Community Engagement

# AMS Weather Band

**Science meets community**. The AMS Weather Band is an online community where AMS members and weather enthusiasts of all stripes come together to discuss the latest in meteorology. The AMS community increased its engagement with Weather Band in 2023, nearly doubling the number of webinar ideas, articles, photo/video content submissions, and other non-staff contributions.

**In 2023, the AMS Weather Band held 34 webinars covering topics of interest to the members, including:**

Climate Change

Forecast and Warnings

Tornadoes

Hurricanes

Other Severe Weather

Safety

## Weather Band By the Numbers

**57** AMS Community Contributions to Weather Band

**34** Weather Band Webinars

**2,134** Total Weather Band Webinar Attendance

**42** Webinar Speakers

**1,464** Weather Band Photo Contest Submissions

**898** Photo Contest Entrants from 83 Countries

## Community Engagement

# AMS Weather Band

Weather Band hosted another highly successful photo contest in 2023. You can see our winning photos spaced throughout this annual report!

*Weather Band Photo Contest 2023 Grand Prize winner: "Night Lights" by Elan Azriel*

Weather You Know

AMS Weather Band Trivia

We also launched our new Weather You Know: AMS Weather Band Trivia event, hosting occasional online trivia nights for our Weather Band community!

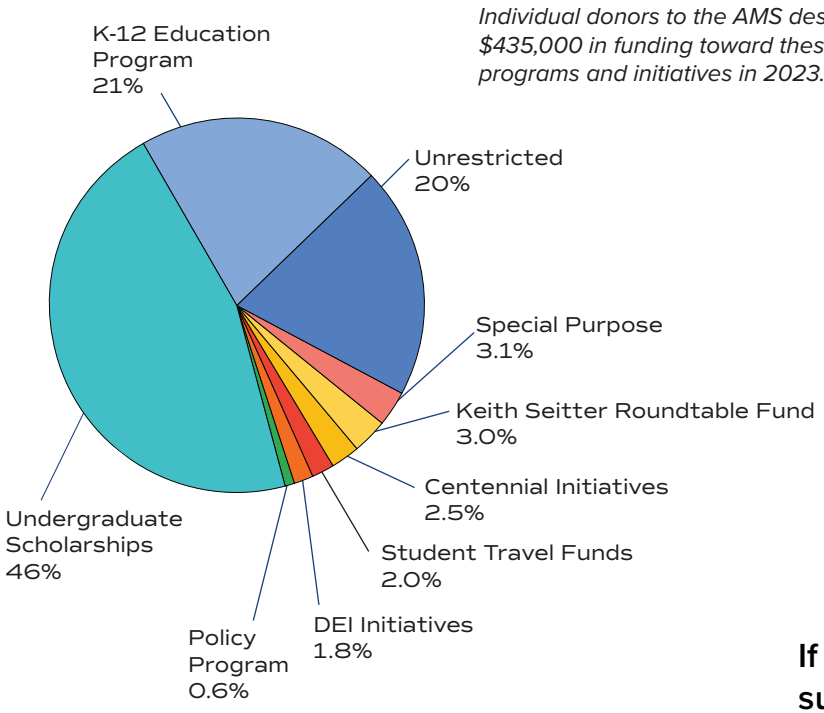
# Development: Supporting Our Community

External support, engagement, and collaboration provides the crucial framework for programs and initiatives that serve to strengthen the weather, water, and climate community. Thank you to our individual, corporate, and government partners who make this work possible.

## Giving to the AMS

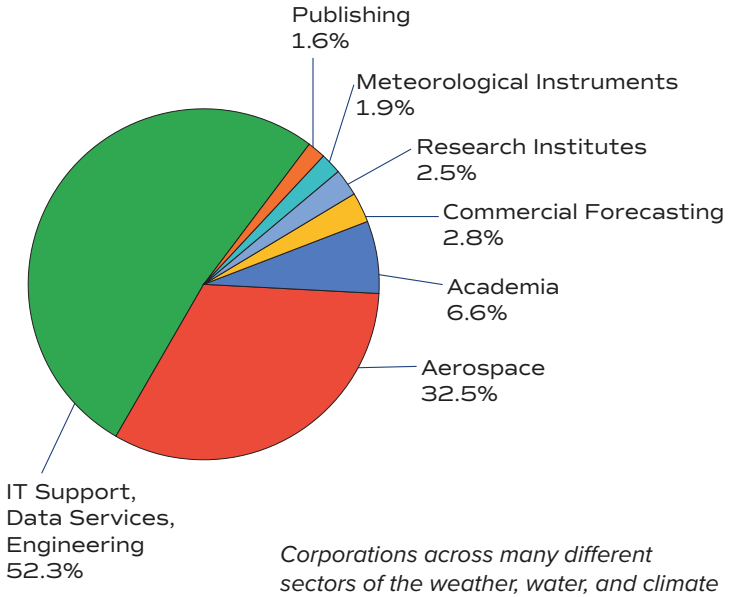
We're pleased to announce another strong fundraising year in 2023!

### Individual Donations to the AMS




*Individual donors to the AMS designated $435,000 in funding toward these programs and initiatives in 2023.*

### AMS Meeting Sponsors




*Corporations across many different sectors of the weather, water, and climate community provided $225,000 in meeting sponsorship support for the AMS in 2023.*

**If you'd like to help advance the AMS's mission through financial support, please contact Stephanie Armstrong, Associate Executive Director, at armstrong@ametsoc.org.**

# Donor Story: Showcasing the Power of Precipitation

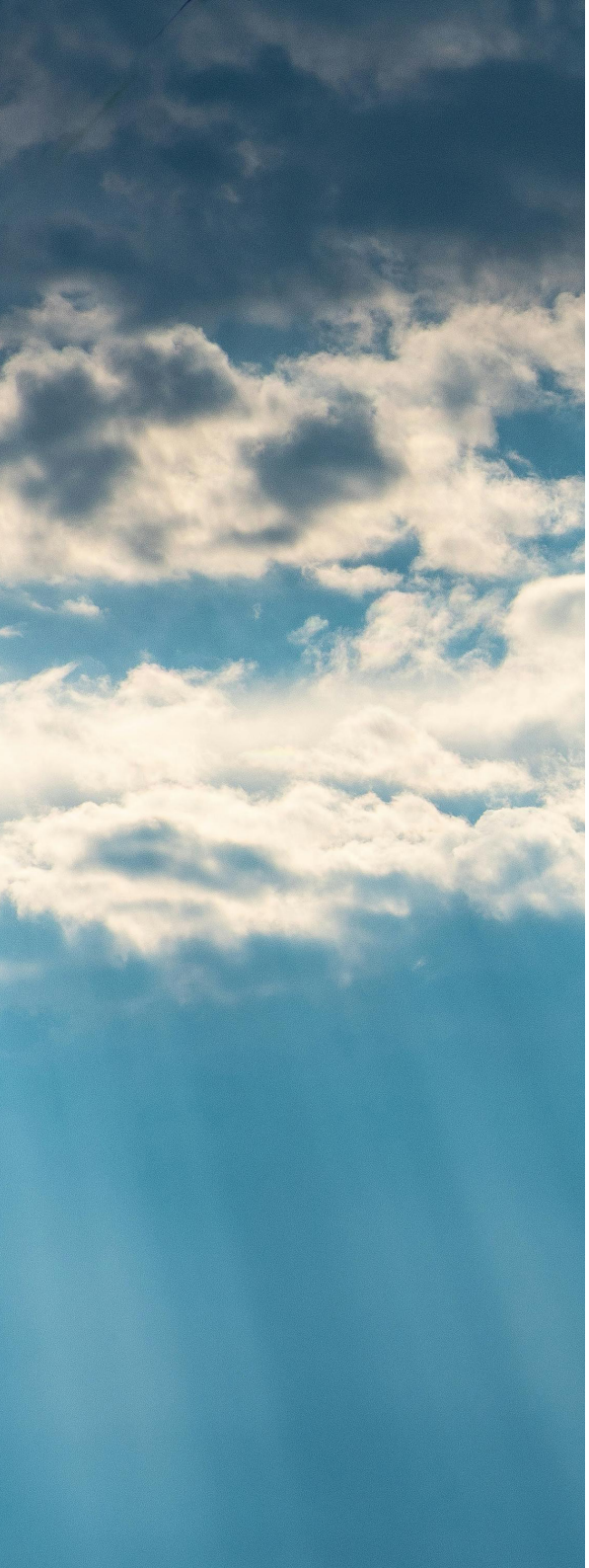
The third annual event of the American Meteorological Society's Eye Towards the Sky public speaker series took place at Boston's WBUR Cityspace on December 1, 2023, and was phenomenally successful. Directed towards a general audience and made possible through a generous donation from Anita Gajdecki, the series aims to increase public knowledge and interest about weather and climate in a thought-provoking, positive, and empowering way.

This year's event focused on precipitation and its role in global climate. A panel of experts moderated by Dr. Matthew Sitkowski discussed snow forecasting, El Niño, blizzards, and more, and answered questions from engaged audience members of all ages.

**View the event recording at [eyetowardsthesky.com.](eyetowardsthesky.com)**

> "Having grown up in the British Isles, the weather and the sky have always been of great interest to me. It inspired me as a college undergraduate to study the universe, and then in later years to study atmospheric sciences. Donating to the AMS is a meaningful way in which I can do my bit to help distribute this knowledge more widely, by enabling the top experts in the field to share their vast expertise. Now, more than ever, scientific facts and correct information need to be shared more widely, and I hope to be in a position to donate to the AMS for as long as there is a need to do so, to continue and encourage this crucial dialogue."

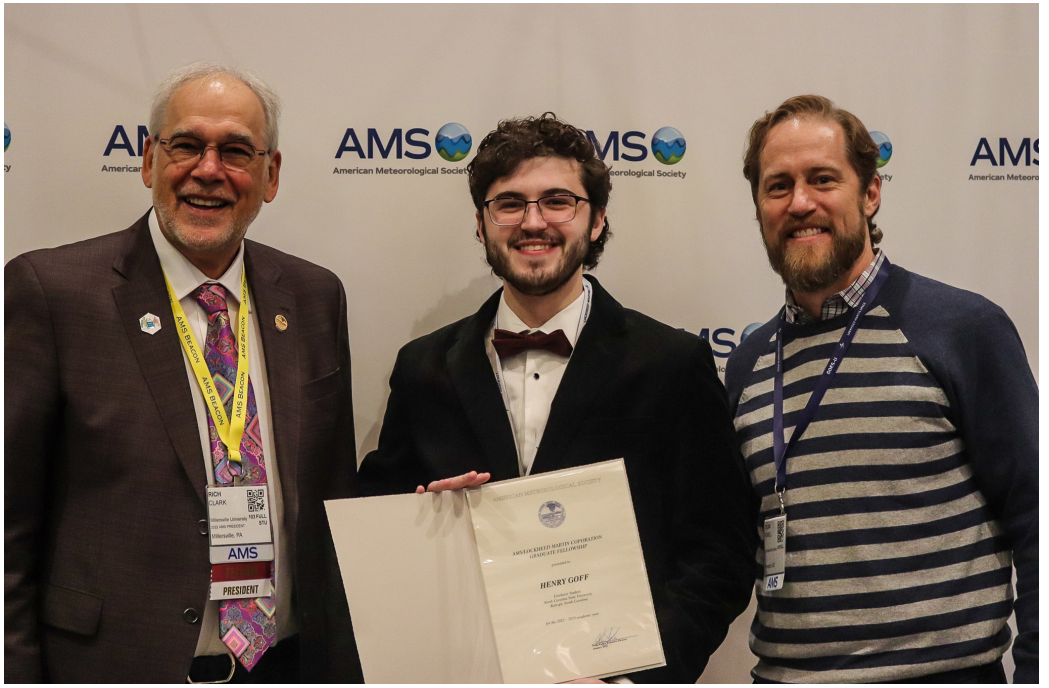
Anita Gajdecki,
Donor, Eye Towards the Sky
Public Speaker Series



## Development

# Support for AMS Initiatives

This year, AMS continued to help the next generation of scientists achieve their educational goals, with graduate fellowships and scholarships to support academic careers, as well as travel grants to help students attend AMS specialty meetings. We distributed $300,000 in funding for fellowships, scholarships, and student travel grants, thanks to donations from individuals, corporations, and federal agencies.




*David Goff received the AMS/Lockheed Martin Graduate Fellowship for the 2022–23 academic year, pictured here with former AMS President Rich Clark and Dylan Powell from Lockheed Martin.*

**36** Graduate Fellowships and Scholarships Awarded

**20** Student Travel Grants Awarded

## Development

Diversity, equity, and inclusion (DEI) efforts have been a major funding priority for the AMS in recent years. In 2023, we disbursed $300,000 in funding for DEI initiatives, including our Equity Assessment, the Early Career Leadership Academy, boards and committees like BRAID, training and networking activities for underrepresented groups in our community, and engagement with other STEM-related organizations.

*The 2023 AMS Early Career Leadership Academy in Phoenix, AZ. Participants, planning committee, and UNEION (UCAR\|NCAR Equity and Inclusion) facilitators.*

> "A lot of people say they don't see people like them. So, furthering equality, diversity, inclusion, and how important that is to the weather, water climate community, and promoting everyone and making everyone feel good about being in the weather community, our water community, our climate community [is so important]."

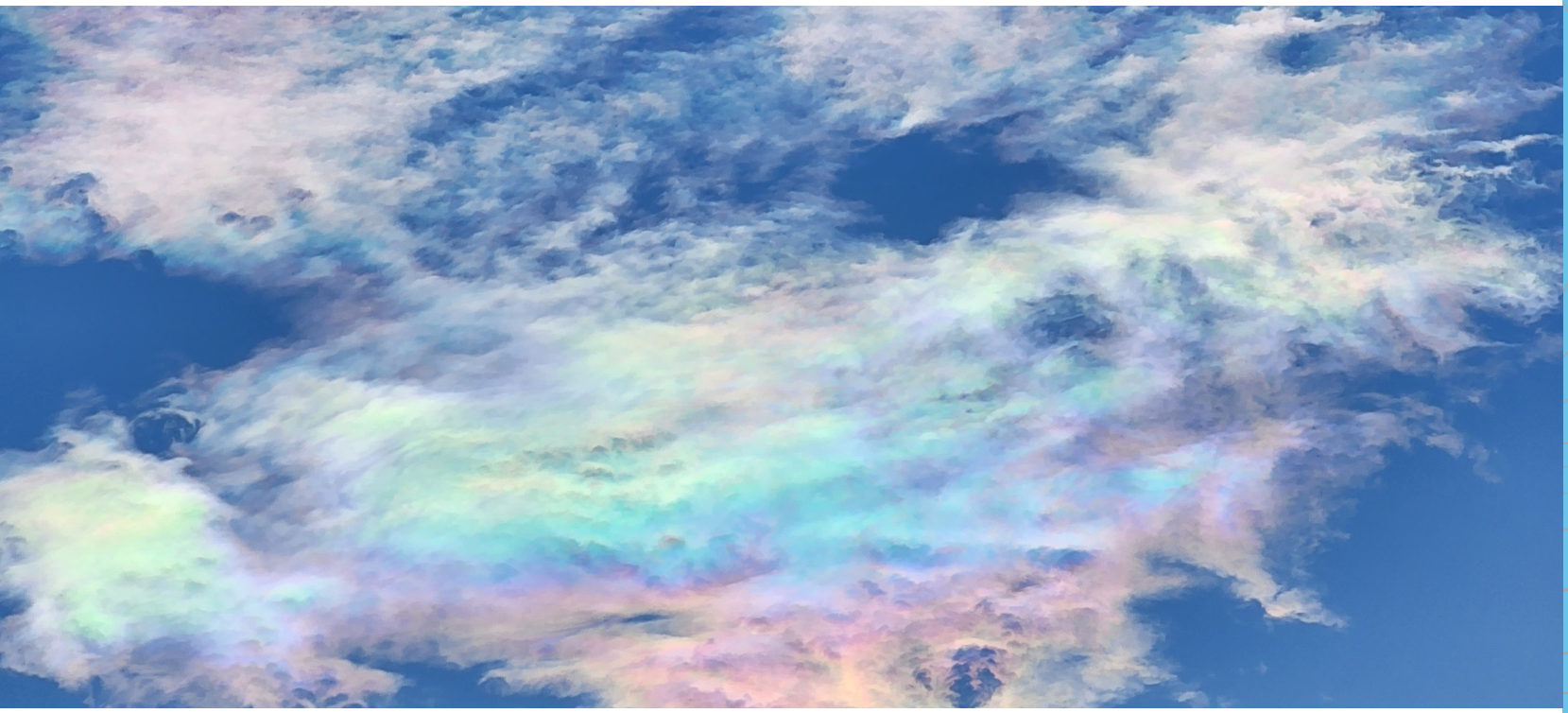
Travis Washington,
Chair, Early Career Leadership Academy Planning Committee
(above photo, front row, second from right)

# Financial Summary

The financial health of the American Meteorological Society remains strong at the end of 2023.

The direct contribution margin of the Society was favorable to the budget for the year. The Society is working to address continued challenges related to lingering impacts from COVID, increased competition, and shifting open access mandates posed in 2024 and beyond.

Outside of operational activity, the investment portfolio recorded a significant (unrealized) gain which was similar to general market conditions during 2023.



# Our Supporters

We extend our deepest gratitude to the generous donors who make the American Meteorological Society's work possible.

Photo Credit: Lauren G Bailey

# Our Supporters

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The following individuals and families have included the AMS in their wills and estates.

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## 2023 Annual Donors

The AMS gratefully recognizes the following individuals who supported the AMS Giving Program from 1 January 2023 through 31 December 2023.

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> "On both the Education Board and the Battan K-12 Book Award committee, I have met some remarkable people in the field of education. It is hopeful to me that so many folks are determined (in the face of all the bad news out there these days) to make this world a better place. These committee positions help me to focus on what I can do to help."

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> "Being co-chair of the Student Outreach and Engagement committee has been an amazing opportunity. We are connecting constantly with inspiring AMS Student Chapters and it has allowed my creativity, my graphic design skills, and my communication skills to improve. I am looking forward to engaging even more in 2024."

Cassie O'Connor,
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> “I have volunteered for the Board of Certified Consulting Meteorologists (BCCM) and the Board on Best Practices (BBP). For me, every hour I volunteer for the AMS is more than repaid by the support of the organization, the wonderful people I’ve had the pleasure to work with, and the sense of satisfaction I receive from my assistance to the organization.”

Lance Steele,
Weathernews America, Inc.,
Board on Best Practices

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Liping Zhang
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Kevin Boyd, *Student Member*

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Zachary Wienhoff
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Leanne Blind-Doskocil, *Student Member*
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Chasity Wright
Nusrat Yussouf
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Margaret Orr
David Richter
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Jared Rennie
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David Schultz
Melissa Sizemore
Kennedy Tartt
Peter Tedeschi
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Alyssa Reynolds, *Student Member*

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Sue Burak
Cory Demko
Marisa Ferger
Steven Glazier
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Tyler Harrington
Ben May
Alyssa Reynolds
Melissa Sizemore
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Sue Haupt
Jen Henderson
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Patrick Hawbecker
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John Ten Hoeve
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Pamela Emch, *Ex Officio*
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Jared Lee, *Ex Officio, Co-Chair, Energy Cm.*
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Kathryn Prociv
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McKinsey Whitaker, *Student Member*

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Olivier Caumont
Sytske Kimball
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Judson Stailey Col.
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Douglas Hilderbrand, *Past Commissioner*
Jerald Brotzge, *Chair, BEC*
Stephanie Herring, *Chair, BEDS*
Alek Krautmann, *Chair, BEST*
Andrea Lang, *Chair, BEED*

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Brad Colman, *Non-voting Ex Officio*
Rebecca DePodwin, *Ex Officio*
Pamela Emch
Mary Erickson, *Ex Officio*
Elena Fernandez
Kyle Franklin
Kristie Franz, *Non-voting Ex Officio*
Jason Giovannettone
Kenneth Graham
Eric Grimit
Sue Haupt, *Commissioner WWCE*
Stephanie Herring, *Chair, BGS*
Douglas Hilderbrand, *Ex Officio*
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Andrea Lang, *Chair, BEED*
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William Mahoney
Burrell Montz
Peter Neilley
Paul Pisano
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Tye Parzybok
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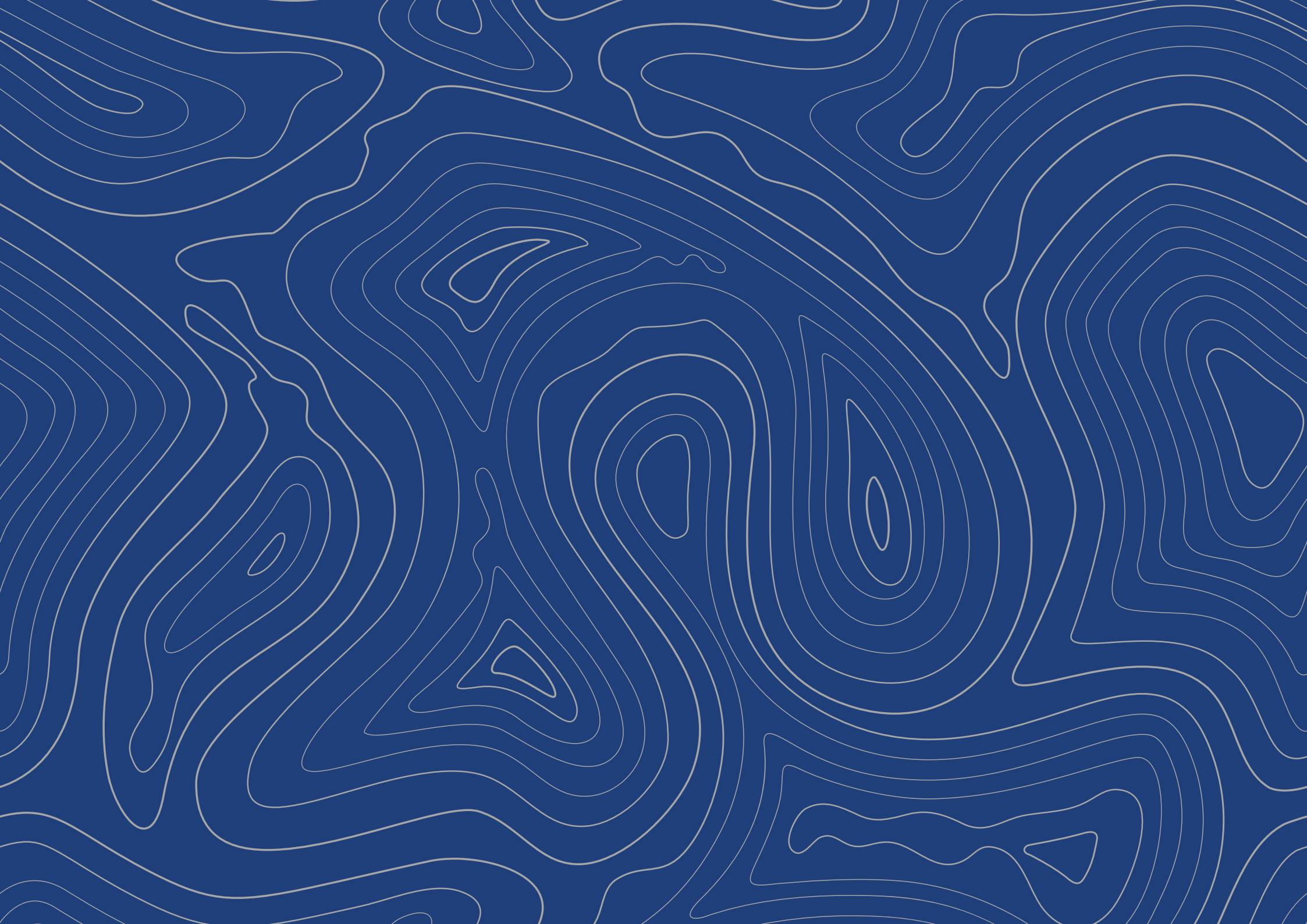
Laurie Allen
Astrid Caldas
Michael Dietze
Andrew M Fox
Richard Fulford
Brian Gross
Abigail Lewis
Brian Smoliak
Quinn Thomas
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